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**ASSESSMENT REPORT**

describing

**PROSPECTING, HAND PITTING AND GEOCHEMICAL SAMPLING**

at the

**GROUNDHOG PROPERTY**

CYR 1-34	YD07821-YD07854
CYRX 1-2	YD42085-YD42086
CYRX 3-63	YD143403-YD143463
SEA 1-104	YC72460-YD143463
SEA 105-108	YC73866-YD143463
SEA 109-120	YC98399-YC98410

NTS 105F/10

Latitude 61°37'N; Longitude 132°52'W

located in the

Watson Lake Mining District  
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

**STRATEGIC METALS LTD.**

by

Steve Israel, Ph.D.

March 2019

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## **INTRODUCTION**

The Groundhog property covers silver-lead ± zinc ± gold showings located in the Pelly Mountains of Yukon Territory. It is wholly owned by Strategic Metals Ltd.

This report describes a 10 day exploration program conducted by Archer, Cathro & Associates (1981) Limited on behalf of Strategic Metals between August 5 and 14, 2018. The program involved prospecting and geochemical sampling by a three person crew working from a tent camp on the property. The author interpreted all data in this report and his Statement of Qualifications appears in Appendix I. A Statement of Expenditures is appears in Appendix II.

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

The Groundhog property consists of 217 contiguous mineral claims located 50 km southwest of Ross River in southeastern Yukon, at latitude 61°36' north and longitude 132°52' west on NTS 105F/10 (Figure 1). The claims are registered in the Watson Lake Mining Recorder in the name of Archer Cathro, which holds them in trust for Strategic Metals. Claim data are listed below while the locations of individual claims are illustrated on Figure 2.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
CYR 1-34	YD07821-YD07854	Sept 11, 2020
CYRX 1-2	YD42085-YD42086	Sept 11, 2020
CYRX 3-63	YD143403-YD143463	Sept 11, 2020
SEA 1-104	YC72460-YD143463	Mar 5, 2027
SEA 105-108	YC73866-YD143463	Mar 5, 2027
SEA 109-120	YC98399-YC98410	Mar 5, 2027

\* Expiry date include 2018 work, which has been filed for assessment credit.

The work was done from a road accessible campsite in the northern part of the property located alongside the Groundhog Creek access road. Previously constructed road systems and ATV trails were used to access most parts of the property. Minor road repairs were made using pick and shovel as sloughing had occurred along the route.

## **HISTORY**

Silver-lead-zinc mineralization was discovered in the region in 1956. Subsequent exploration has outlined two areas of silver-lead-zinc mineralization, one to the north, and the other to the south, of Groundhog Creek (collectively “the Groundhog Silver Camp”). In total, about 100 showings have been discovered, mostly by prospecting and bulldozer trenching. The showings located north of Groundhog Creek presently lie within a staking moratorium pending settlement of First Nation land claims.

Silver mineralization was first reported in the area now covered by the Groundhog property by prospectors H. and P. Verslucce in 1979. They staked the Jeff claims and conducted limited prospecting and rock sampling. Soon afterward N. Hennel staked the Hi Grade claim on the east

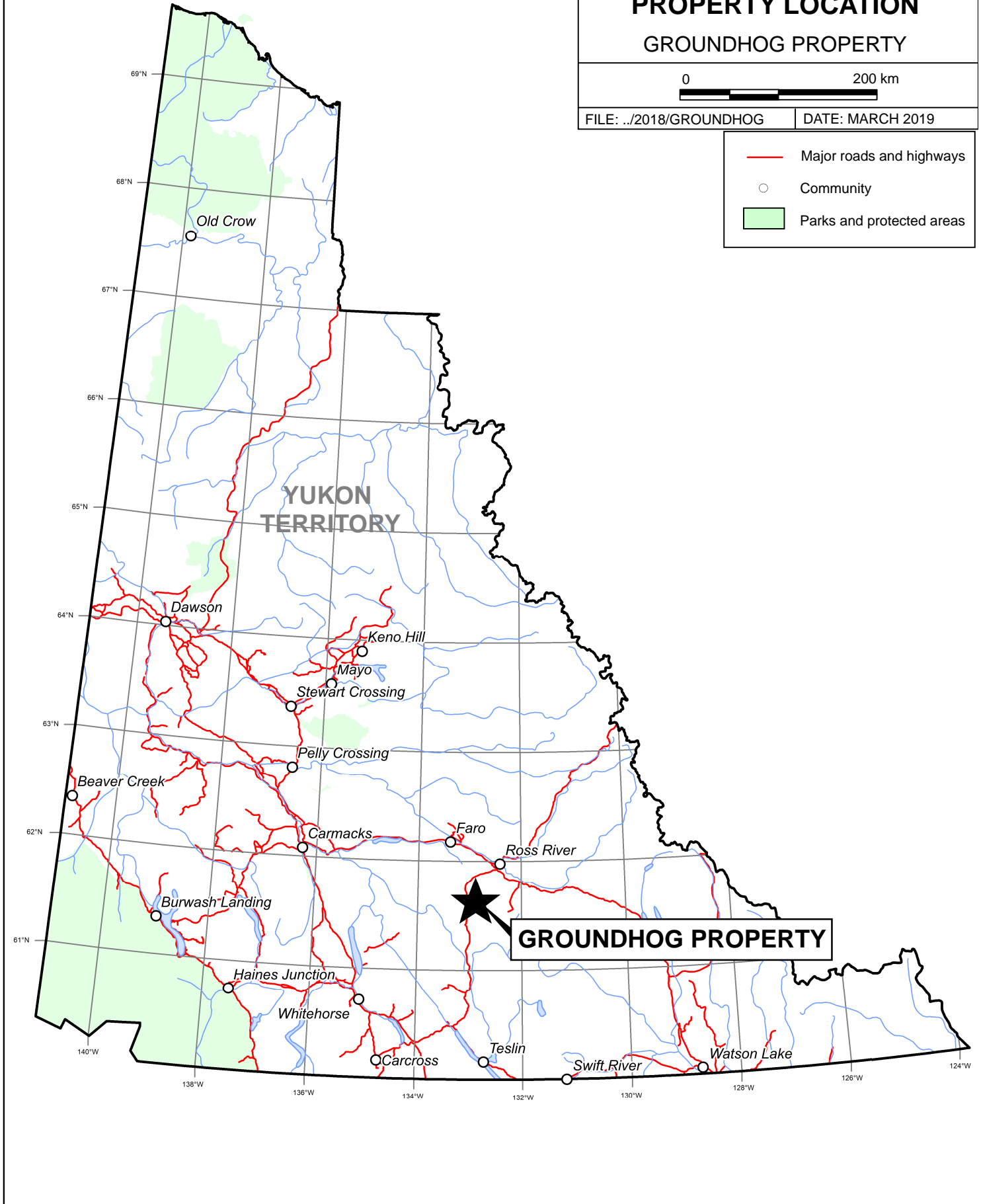
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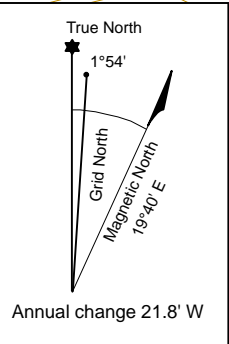
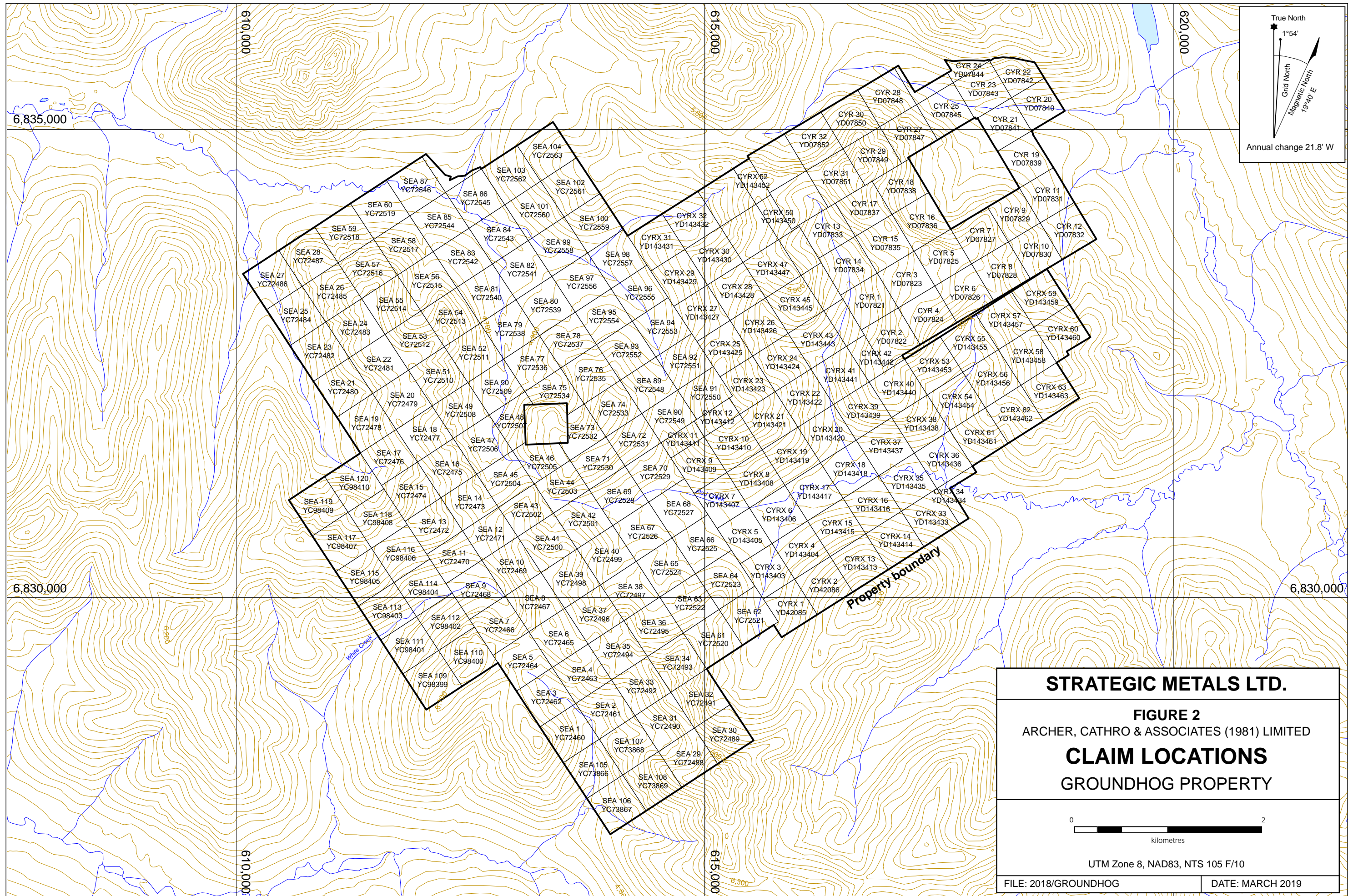
FIGURE 1  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**PROPERTY LOCATION**  
GROUNDHOG PROPERTY



FILE: ../2018/GROUNDHOG DATE: MARCH 2019

- Major roads and highways
- Community
- Parks and protected areas





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**FIGURE 2**  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**CLAIM LOCATIONS**  
 GROUNDHOG PROPERTY

0 2  
 kilometres

UTM Zone 8, NAD83, NTS 105 F/10

FILE: 2018/GROUNDHOG      DATE: MARCH 2019

side of the Jeff claims and an unknown person staked the Jim claims directly to the south. There is no record of work having been done on either the Hi Grade or Jim claims. In 1981, the Seagull Joint Venture, comprised of Great Western Petroleum Corporation and Lornex Mining Corporation, staked the Lorne claims to the east of the Jeff claims. The Seagull Joint Venture performed a program of mapping and silt and soil geochemical sampling on the Lorne claims. This work located a train of massive galena boulders that was followed to a snow covered area. The galena boulder train was never followed up.

In 1986, Yukon Minerals Corporation staked 348 claims to cover all of the known showings in the Groundhog Silver Camp. In 1987, it added another 152 claims and formed a joint venture with Perrex Resources Inc. That joint venture carried out mapping and prospecting over the entire claim block, which resulted in the discovery of a number of new showings. Subsequently bulldozer and excavator trenching was done to evaluate various showings. One of the showings (PN) was tested by a 52.56 tonne bulk sample and 204 m of diamond drilling in six holes between 1988 and 1990.

In 1987, McCrory Holdings Ltd. conducted an eight day reconnaissance exploration program over its adjoining Pass Peak property, which lies in the southern portion of the present Groundhog property. Nine mineral occurrences were discovered and sampled.

In 1988, the Pass Peak property was optioned to Yukon Minerals, who conducted detailed mapping and silt geochemical sampling.

The area was partially restaked by Whitehorse prospector R. Berdahl in 1990, and he continues to own one claim that covers old workings on the Lucky, PN and Jill veins.

In late 2007, the southern part of Groundhog Silver Camp was staked by Strategic Metals, which subsequently sold the property to Rockhaven Resources Ltd.

In summer 2008, Rockhaven contracted Geotech Inc. to complete a helicopter-borne versatile-time domain electromagnetic (VTEM) and magnetic survey over the property. The results from this survey were later used by a two-man crew to re-evaluated historical showings and collected silt samples. The Sea 105 to 108 claims were staked to cover the inferred strike extension of a newly discovered showing (Turner, 2009).

In 2009, Rockhaven carried out a month long program that included prospecting, hand trenching and geochemical sampling. Prospecting and hand trenching identified several areas of significant mineralization including: 47.8 g/t silver, 9.09% lead, 15.70% zinc over 8.93 m (Cirque Showing); a float sample that returned 2230 g/t silver and 70.01% lead (Cirque Showing); and, a grab sample that returned 2440 g/t silver, 58.57% lead and 2.99 % zinc (Rob #1 Showing). Elevated gold was first identified at the Aztek Showing from a float sample collected that returned 1.805 g/t gold, 486 g/t silver, 14.9% lead and 0.75% zinc. The soil geochemistry identified several areas with strongly anomalous in silver, lead and zinc values. At the Aztek Showing a strong gold and arsenic anomaly roughly 2000 m long and 1400 m wide was identified near a mapped structure. None of this work has been followed up.



In the spring 2011, Rockhaven Resources staked the CYRX 1-63 and CYR 1-34 claims to the west of the existing claims.

In the summer 2015, Rockhaven Resources entered into an agreement with Strategic Metals whereby the companies traded projects and the Groundhog project was transferred to Strategic Metals.

No other work has been reported.

### **GEOMORPHOLOGY**

The Groundhog property is located in the St. Cyr Range of the Pelly Mountains. All streams draining the property flow into the Groundhog, Upper Sheep and Seagull creeks, which ultimately flow into the Bering Sea via the Pelly and Yukon rivers.

The claims overlie rugged topography with peaks rising to 2120 m from valley floors of 1200 m. Lower elevations are vegetated with spruce forests, thick buckbrush and slide alder surrounded by moss. Higher elevations exhibit talus slopes with intermittent grass and alpine heather. Outcrop is mostly restricted to ridges and very steep slopes. Treeline is at about 1575 m.

### **REGIONAL GEOLOGY**

The Groundhog property is located 30 km southwest of the Tintina fault in the Ketzka-Seagull District (Pelly Mountains ) of the Cassiar terrane (or platform), as shown on Figure 3. The Cassiar terrane is a displaced parautochthonous fragment of the Laurentian margin offset by the Tintina fault, a northwest-trending transcurrent fault with approximately 425 km of dextral strike-slip Tertiary motion (Gabrielse et al., 2006; Mortensen, 2004). In southeastern Yukon, this fault juxtaposes metamorphosed island arc assemblages of the Yukon-Tanana terrane to the northeast against the Cassiar terrane to the southwest (Figure 3).

Tempelman-Kluit (1977; 2012) carried out the first comprehensive bedrock mapping in the Pelly Mountains within NTS 105F (Quiet Lake) and 105G (Finlayson Lake) map sheets. He divided the rocks into four main stratigraphic groups, Ketzka, Kechika, Askin and Seagull, each comprised of several informal formations (Figure 4). Subsequently some of these rocks were re-compiled into the updated Yukon bedrock geology map to better fit with the larger regional-scale geology of the Cassiar terrane (Gabrielse, 1963; Yukon Geological Survey, 2019).

The upper Neoproterozoic to Lower Cambrian Ingenika Group and Rosella formation are the oldest rocks in the region (Figure 5). Templeman-Kluit (1977; 2012) placed these rocks within what he called the Ketzka Group, with the Ingenika Group and the Rosella formation represented by the Pass Peak and McConnell River formations respectively (Table I). The rocks of the Ingenika Group and the Rosella formation outcrop in the western portion of the Groundhog region, in the hanging wall of a northwest-striking thrust fault and within the exhumed areas of the Seagull and Ketzka uplifts (Figure 5). The Ingenika Group consists of up to 200 m to 700 m of green to tan coloured shale, siltstone and quartzite (Templeman-Kluit, 2012; Campbell and Beranek, 2017). These rocks are overlain by up to 800 m of calcareous mudstone and siltstone,

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FIGURE 3

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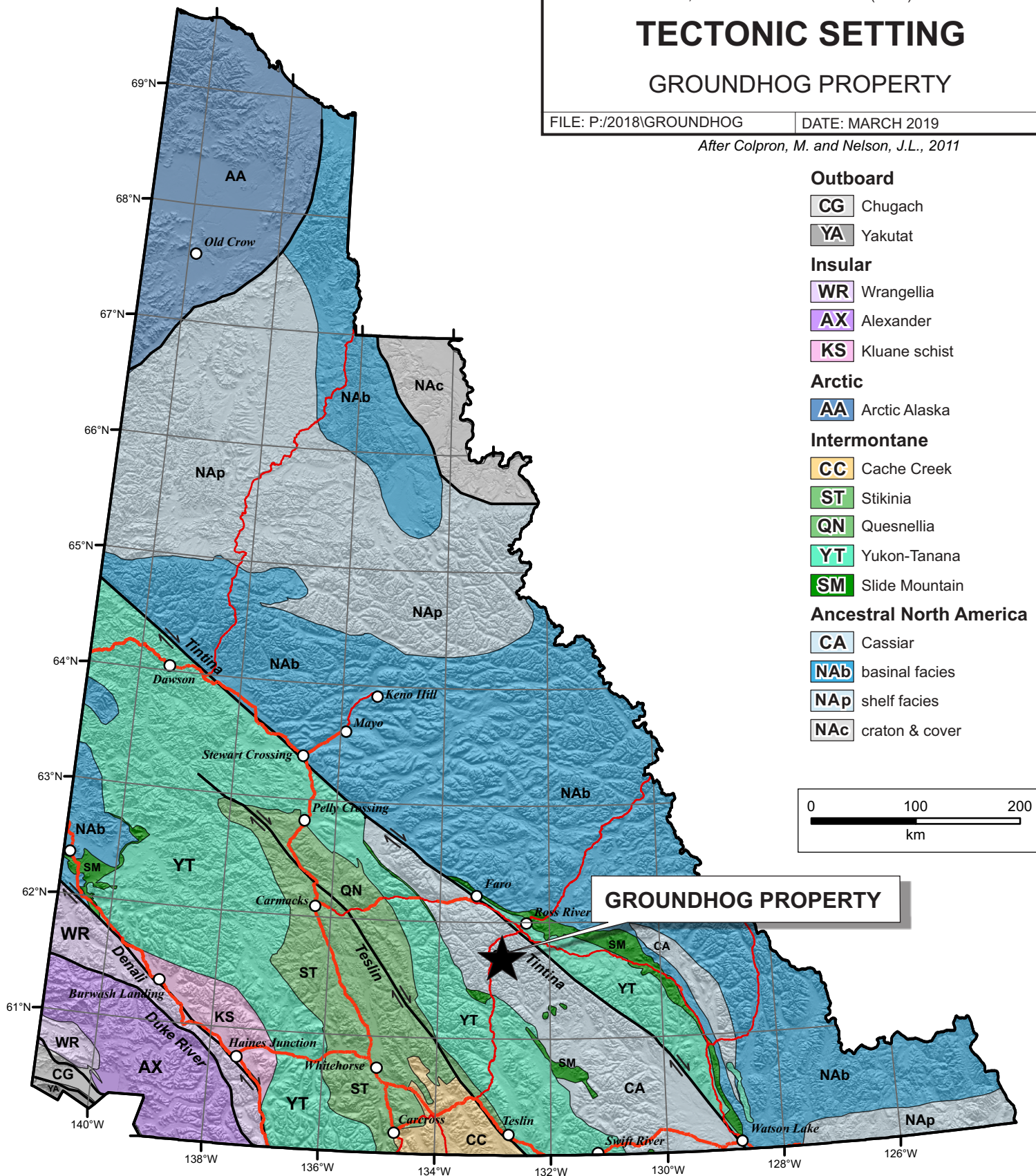
## TECTONIC SETTING

### GROUNDHOG PROPERTY

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



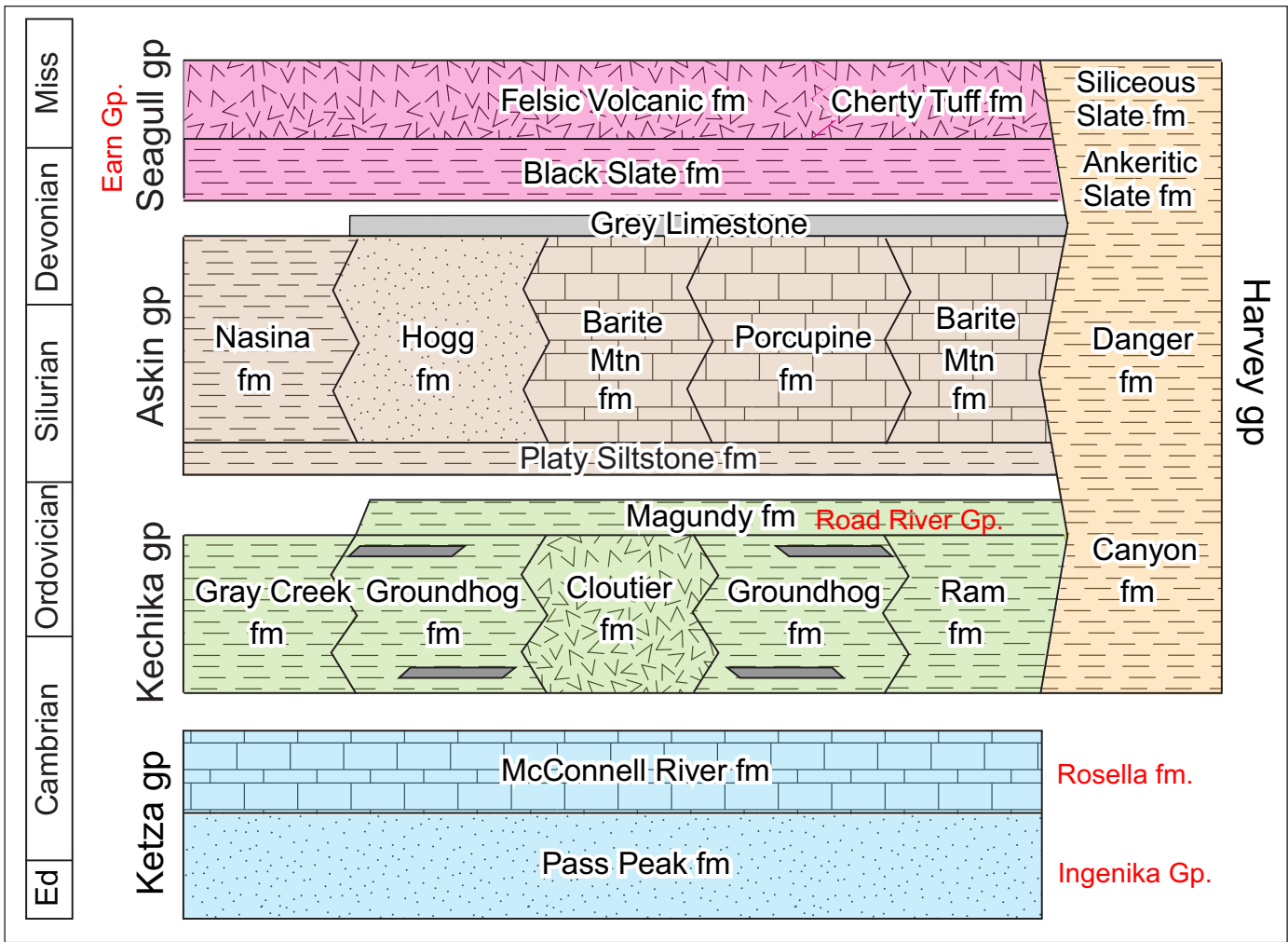
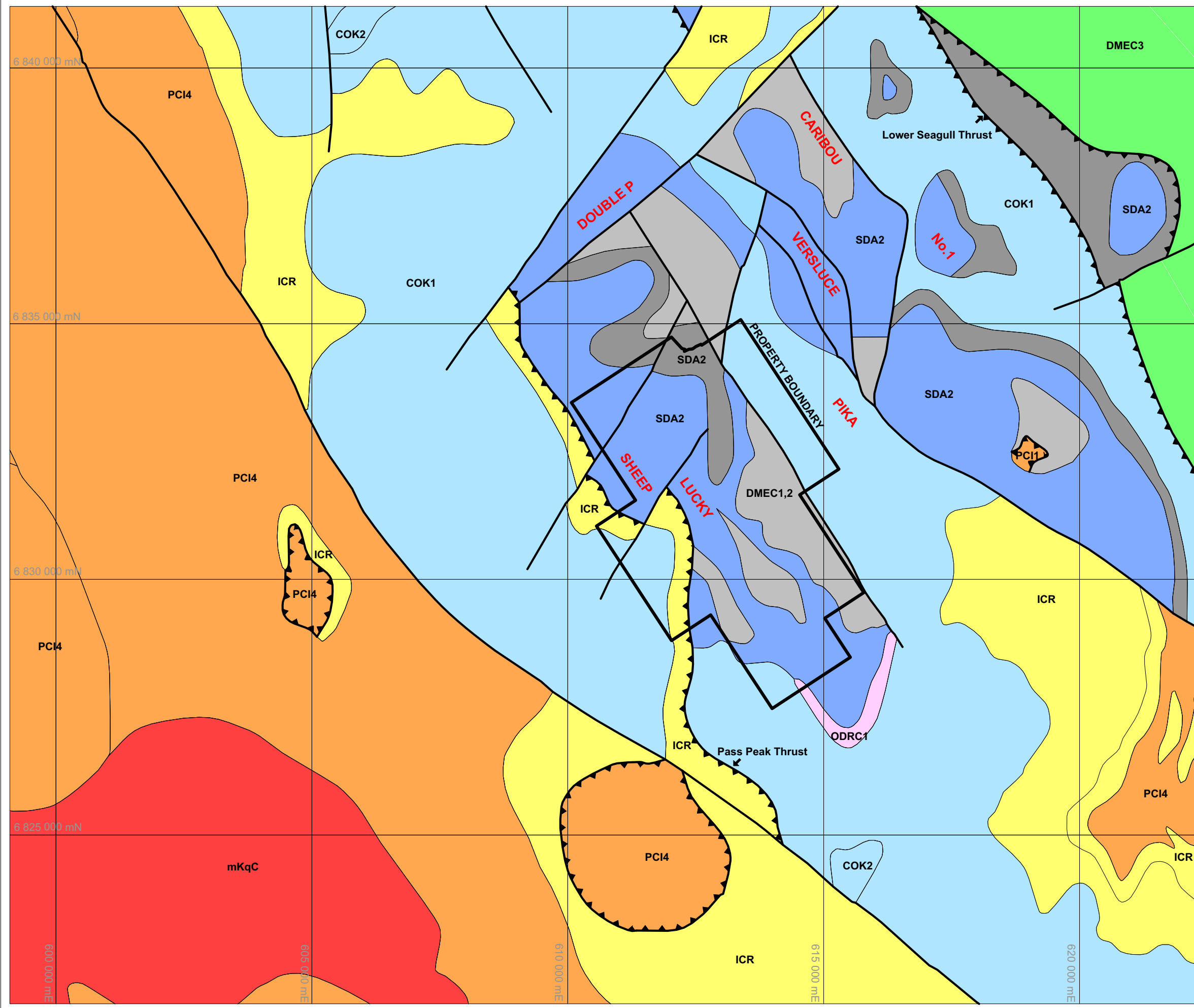


Figure 4. Paleozoic stratigraphy of the Pelly Mountains compiled by Tempelman-Kluit (1977, 2012), modified from Campbell and Beranek (2017). Red text is the reinterpreted stratigraphic assignment from Gordey and Makepeace (2001) and the Yukon Geological Survey (2019).



- Mid Cretaceous  
Cassiar Suite**  
**mKqC** Light grey weathering, homogenous porphyritic medium grained biotite quartz monzonite
- Upper Devonian to Lower Mississippian  
Earn Group**  
**DMEC1,2** Dark grey, recessive weathering, thin bedded, black siliceous slate with interbeds and members of quartz-chert greywacke, chert granule grit, and rusty orange weathering, resistant, apple-green and dark grey, thin bedded chert and cherty tuff  
**DMEC3** Heterogeneous, rusty, black-, white-, and orange-weathering rhyolite-trachyte to andesite flows, breccias and tuffs
- Silurian to Lower Devonian  
Askin Group**  
**SDA2** Resistant, thick bedded to massive, red weathering, coarsely sucrose dolomite; minor sandy dolomite  
**SDA2** Recessive weathering, thin bedded, dark grey dolomitic shale
- Ordovician to Devonian  
Road River Group**  
**ODRC1** Recessive, black, locally calcareous, fissile grapholitic shale
- Upper Cambrian to Lower Ordovician  
Kechika Group**  
**COK1** Basinal fine grained calcareous pelitic strata containing thin bedded, lustrous, calcareous, grey slate, phyllite, limestone, minor grey dolomite and dolomitic limestone; quartz- carbonate veins; minor sills and flows of basalt  
**COK2** Massive, dark green and marron amygdaloidal basalt flows and volcanoclastics
- Lower Cambrian  
Rosella Group**  
**ICR** Resistant, thick bedded to massive, limestone and argillaceous limestone with local archaeocyathid buildups, trilobite fragments, and oolites, pisolitic massive dolomite and limestone; marble, calc-silicate, calcareous phyllite and minor schist
- Upper Proterozoic to Lower Cambrian  
Ingenika Group**  
**PCI1** Calcareous sandstone, shale, quartz-eye grit, quartzite and minor grey limestone  
**PCI4** Buff weathering, resistant muscovite-biotite granodiorite gneiss and augen gneiss
- ▲▲▲ Thrust fault  
 — Normal fault  
 — Geological contact  
**SHEEP** Mineralized trend
- 39°  
Grid north  
23°52'  
Magnetic north  
Annual change decreasing 28'

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**FIGURE 5**  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**REGIONAL GEOLOGY**  
**GROUNDHOG PROPERTY**

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UTM Zone 8V, NAD83, NTS 105F/10

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archeocyathid bearing carbonate mounds, and black pyritic slate assigned to the Rosella formation. The upper contact between the Rosella formation and the overlying Kechika Group is not well-exposed; however, a mid-Cambrian fossil gap suggests an unconformity (Tempelman-Kluit, 2012).

The Kechika Group consists of Upper Cambrian to Ordovician siliciclastic and volcanic rocks found in the central part of the Groundhog area (Figure 5; Table I). Kechika Group rocks are either structurally overlain by or unconformably overlying rocks of the Ingenika Group and Rosella formations in the western and central parts of the region. In other areas the Kechika Group is conformably to disconformably overlain by the younger Askin Group or thrust over Devonian to Mississippian Earn Group. The Kechika Group consists of northwest striking belts of laterally interfingering strata characterized by calcareous slate and thin-bedded platy limestone, tuffaceous phyllite, greenstone and andesitic tuff, basalt flows and volcanoclastic rocks. These rocks appear to be capped by a thin discontinuous black slate that Tempelman-Kluit (2012) assigned to the Magundy formation, but has since been correlated with the Road River Group (Yukon Geological Survey, 2019).

Conformably to disconformably overlying the Kechika Group is Silurian to Devonian shallow water, marine strata of the Askin Group. Rocks of the Askin Group form much of the larger mountains within the Groundhog region, due to the resistive nature of the stratigraphy. These rocks are unconformably overlain by Earn Group rocks in the central part of the Groundhog region and are faulted against rocks of the Ingenika Group, Rosella formation and Earn Group in the west (Figure 5). The Askin Group consists of a basal, platy, dolomitic siltstone 100 m to 500 m thick, overlain by well-bedded, shallow water carbonate rocks and massive dolostone with varying amounts of quartz-sand and silt. Mafic to intermediate volcanic rocks are found locally within the lower platy siltstones. Rapid lateral variations in stratigraphy occur within the carbonate rocks and locally dolomitic, quartz, sandstone dominates. A blueish-grey coloured, thin-bedded limestone is found locally at the top of the Askin Group and overlies most stratigraphy within the group.

Siliciclastic and volcanic rocks of the Devonian to Mississippian Earn Group outcrop in the central to western parts of the Groundhog region. These rocks are conformable to discordantly overlying the Askin Group and are structurally overlain by rocks of the Kechika Group (Figure 5; Table I). Tempelman-Kluit (1977; 2012) included these rocks in the Seagull Group, but they have since been correlated with Earn Group strata (Yukon Geological Survey, 2019). Earn Group rocks in the Groundhog region consists of slate, greywacke and felsic volcanic rocks. The lower part of the Earn Group in this region is dominated by thin-bedded, black, fissile slate. Thin beds of greywacke composed of chert, feldspar and quartz grains are interbedded with the slate and locally form beds of granule to pebble conglomerate. Thin-bedded barite is found in the upper parts of the slate and can reach thicknesses of 200 m near the top of the unit. A grey to greenish cherty tuff unit overlies the black slate and consists of rusty orange weathered cap. Thin argillaceous layers, between one and ten centimetres thick, separate beds of the cherty tuff. The tuff is roughly 100 m thick and is overlain by a laterally and vertically heterogeneous unit of volcanic and volcanoclastic rocks. The volcanic and associated volcanoclastic rocks are up to 500 m thick and include a variety of light coloured tuff, volcanic breccias and flows, dykes sills and

subvolcanic plugs of felsic to intermediate composition. Individual beds are difficult to follow laterally for any distance and also have rapid vertical facies changes.

Late Devonian plutonic rocks of the Pelly Mountains suite intrude into the Earn Group volcanic rocks and the Askin Group in the eastern part of the Groundhog region. These rocks are at least in part time equivalent with the Earn Group volcanic rocks and are genetically related. Rocks of the Pelly Mountain suite consist of massive, medium to fine-grained, sub-volcanic syenite to trachyte. One U-Pb zircon age from this suite suggests an age of ca. 362 Ma (Mortensen and Gordey, unpublished data).

Early Cretaceous monzo-granite to granodiorite of the Cassiar suite outcrop in the extreme western part of the Groundhog area (Figure 5; Table I). The suite ranges in age from 117-104 Ma and includes large, regional batholiths such as the Nisutlin, Quiet Lake and Big Salmon batholiths. Smaller buried intrusions of the Cassiar suite are thought to underlay both the Ketza and Seagull uplifts and likely play a role in the mineralization found in both areas (Abbott, 1986).

**Table I - Regional Lithological Units (After YGS, 2019)**

<b>Name</b>	<b>Age</b>	<b>Unit</b>	<b>Description</b>
Cassiar Suite	Mid-Cretaceous	mKqC	Light grey weathering, homogenous, porphyritic medium-grained biotite quartz monzonite.
Earn Group (Seagull Gp)	Upper Devonian to Lower Mississippian	DMEC1	Dark grey, recessive weathering, thin bedded, black siliceous slate with chert pebble conglomerate and rare lenses of intermediate to felsic volcanoclastic rocks.
		DMEC2	Rusty orange weathering, resistant, apple-green and dark grey, thin bedded chert and cherty tuff; local nodular and bedded barite.
		DMEC3	Heterogeneous, rusty, black, white, and orange- weathering rhyolite-trachyte to andesite flows, breccias and tuffs.
Askin Group	Middle Silurian to Middle Devonian	SDA2	Medium grey to buff weathering, medium-to-thick bedded dolomite, silty and sandy dolomite, limestone, and medium-to-thick bedded orthoquartzite.
Kechika Group	Upper Cambrian to Lower Ordovician	COK1, COK2	Basinal, fine grained, calcareous pelitic strata containing thin bedded, lustrous, calcareous grey slate, phyllite, limestone, minor grey dolomite and dolomitic limestone; quartz-carbonate veins; minor sills and flows of basalt (COK1); massive dark green and maroon amygdaloidal basalt flows and volcanoclastic rocks (COK2)

Rosella Group (Ketz Gp – McConnell River fm.)	Lower Cambrian	ICR	Resistant, thick bedded to massive, limestone and argillaceous limestone with local archaeocyathid buildups, trilobite fragments, and oolites; pisolitic massive dolomite and limestone; marble, calc-silicate, calcareous phyllite and minor schist.
Ingenica Group (Ketz Gp – Pass Peak fm.)	Upper Proterozoic to Lower Cambrian	PCI4	Buff weathering, resistant muscovite-biotite granodiorite gneiss and augen gneiss.

### **PROPERTY GEOLOGY**

Mapping in 1988 by Yukon Minerals identified six units on the property, which are correlated to the regional lithologies as shown in Table II. Mapping by Rockhaven in 2008 (Turner, 2009, Kammerer and Turner, 2010) was done at 1:10,000 scale, using the same units (Figure 6). No mapping was completed during the 2018 field season.

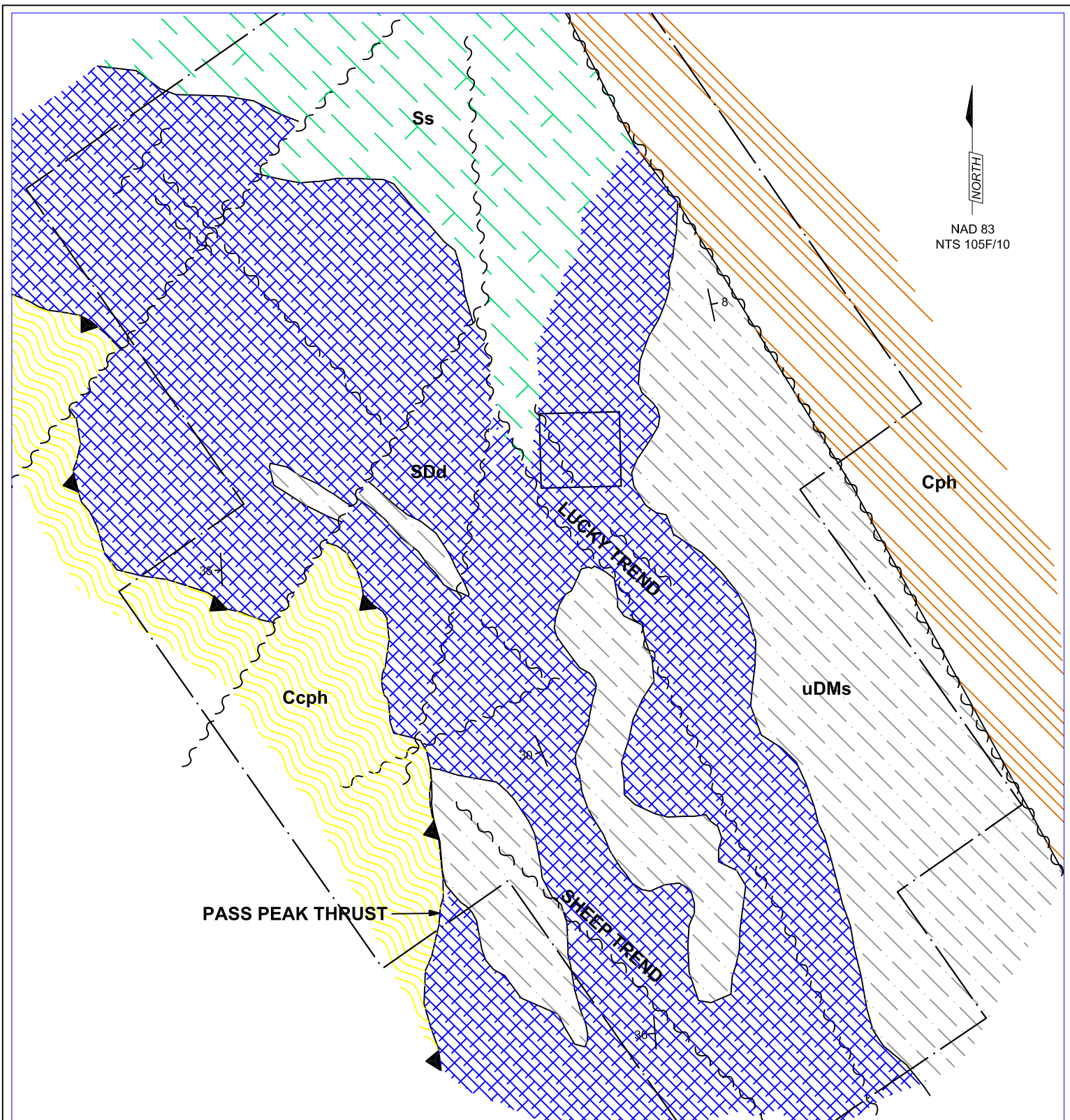
The property is underlain by relatively thick successions (up to 400 m) of calcareous sedimentary rocks with lesser clastic sedimentary rocks, which range in age from Lower Cambrian to Late Devonian-Mississippian. Bedding orientations mostly show northerly strikes, with flat to moderate dips of 5° to 35°W in the western part of the property and 2° to 20°E in the east. These measurements indicate a broad anticlinal fold with a northerly-trending axis.

**Table II - Correlation of Regional and Property Lithological Units**

<b>Regional unit</b>	<b>Property subunit</b>	<b>Description</b>
mKqC	KTqfp	Dark green, fine grained biotite-bearing dykes.
DMEC1	uDMS	Black, recessive weathering shale.
DMEC2	uDMc	Dark grey, resistant, thin bedded chert and local nodular and bedded barite.
SDA2	SDd	Buff-, grey-, and red-weathering dolomite with lenses of massive quartz arenite.
COK1	Ccph	Grey buff, brown weathering thinly laminated calcareous phyllite.
ICR	Cph	Grey calcareous phyllite.

Although there are no mapped exposures of intrusive bedrock on the property, some areas host numerous boulders of dark green, intermediate to mafic intrusive (KTqfp). Yukon Minerals mapped two dykes of this unit in outcrops about 400 m north of the property. These dykes range from 2 to 10 m in width and were traced over 600 m along strike.

The Pass Peak Thrust Fault is the only named fault on the property and represents the southern flank of the complexly faulted arch named the Seagull Uplift. The Lower Seagull Thrust, five kilometres to the northeast of the property, represents the northern flank of the Ketz-Seagull Arch. Both of these thrust faults strike northerly and dip shallowly to the west.

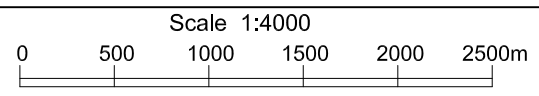


NORTH  
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<b>uDMs</b>	Late Devonian to Mississippian Black shale, phyllite, chert conglomerate		Thrust fault
<b>SDd</b>	Silurian and Early to Middle Devonian Buff-, grey- and red-weathered dolomite with lenses of quartz arenite		Normal fault
<b>Ss</b>	Silurian Grey weathering, platy, thinly laminated dolmitic siltstone		Bedding measurement
<b>Ccph</b>	Late Cambrian Grey buff, brown weathering, thinly laminated calcareous phyllite		
<b>Cph</b>	Early Cambrian Grey calcareous phyllite		

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FIGURE 6  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**PROPERTY GEOLOGY**  
 GROUNDHOG PROPERTY



DRAWN / REVISED BY: M. Turner	PROJECT: GROUNDHOG
	DATE: March 2019



Several normal faults and shear zones have also been mapped on the property. These structures strike northwesterly and northeasterly and dip steeply. They are interpreted to be horst and graben structures within the Seagull Uplift (Abbott, 1986). These high angle faults offset the thrust fault.

### MINERALIZATION

Mineralization in the Ketzá-Seagull Arch is thought to be related to both syngenetic and epigenetic systems (Abbott, 1986). Volcanogenic massive sulphide mineralization is believed to be associated with Earn Group volcanic rocks; however, the main mineral occurrences are epigenetic vein, manto and skarn occurrences found mainly clustered around both the Seagull and Ketzá uplifts. Veins of galena, sphalerite, quartz, and siderite +/- pyrite, pyrrhotite, arsenopyrite, chalcopyrite and tetrahedrite are found along well-formed faults with very minor offset (Abbott, 1986). These faults appear to have been active during mineralization and are considered to have provided the conduits for mineralizing fluids. Mantos are generally found near faults and form tube-like lenses along the contact between Lower Cambrian limestone and overlying shale (Abbott, 1986). At both the Ketzá and Seagull uplifts, mineralization appears to be zoned with gold-rich veins and mantos found within the core (especially in the Ketzá Uplift), and galena and sphalerite-rich veins and mantos found around the flanks.

The Groundhog property is found within the Seagull Uplift and mineralization there appears to be associated with seven main structural trends, two of which, (the Sheep and Lucky trends) cross the property (Figure 4). These mineralized trends are oriented northwesterly and are individually traced up to 7 km along strike. They appear to lie along the flanks of grabens formed during the Seagull Uplift (Ramaekers, 1988) or along fluid conduits provided by older thrust faults. Although the source of the mineralizing fluids is unknown, it has been postulated that the uplift and structural extension resulted from doming above an unexposed mid-Cretaceous intrusion, which may also have been the main heat source driving the fluid transfer (Abbott 1986).

The majority of the showings on the property are fault-bounded quartz-carbonate veins and breccias hosted by the Askin Group carbonate sequence. Mineralization within the veins and breccias consists of disseminated to semi-massive, coarse grained galena, sphalerite, tetrahedrite, freibergite and pyrite. Malachite staining is common on carbonate minerals, with the copper remobilized from the weathering of tetrahedrite. Hydrozincite residue is also locally observed. Most of the showings occur near the top of the Askin Group, just below the contact with overlying Earn Group shales and fine grained clastics. This relatively incompetent and non-reactive unit appears to have acted as a physical and chemical barrier that localized mineral deposition in the underlying carbonate rocks (Fowler, 1988).

Four main types of mineralization have been discovered on the Groundhog property as generally described in the following paragraphs. Individual showings are described later in the section.

**Vein and breccia zones** on the property are associated with northwest-trending, steeply dipping structures, which mostly occur along the Lucky and Sheep trends. Mineralization is hosted within the main structures and in east to northeast-trending shear zones that cut obliquely across

the primary structures. Movement along these shears has helped produce dilatant zones that have enabled open space filling by veins.

**Replacement mineralization** is locally developed where structures hosting vein and breccia zones cut carbonate wallrocks. Little effort was made by previous operators to assess the potential for this type of mineralization. However, prospecting in 2008 and 2009 appears to have discovered replacement style zones (JW and Aztek showings).

**Stratiform mineralization** occurs as finely banded galena, sphalerite and chalcopyrite in Cambrian-aged phyllites and tuffs in the western part of the property within the upper plate of the Pass Peak Thrust Fault. Two showings (Strat and Geo) exhibit this style of mineralization. They are located on opposite sides of a valley about 1500 m apart.

Only cursory prospecting has been done on the property and relatively few rock samples have been collected for analysis.

In 2018, eleven rock samples were collected from the Aztek, JW and Scree showings. Rock sample descriptions can be found in Appendix III, sample handling and analytical procedures are described in Appendix IV, and certificates of analysis appear in Appendix V. Figure 7 shows rock sample and showing locations and Figures 8 to 11 illustrate thematic values for gold, silver, lead and zinc.

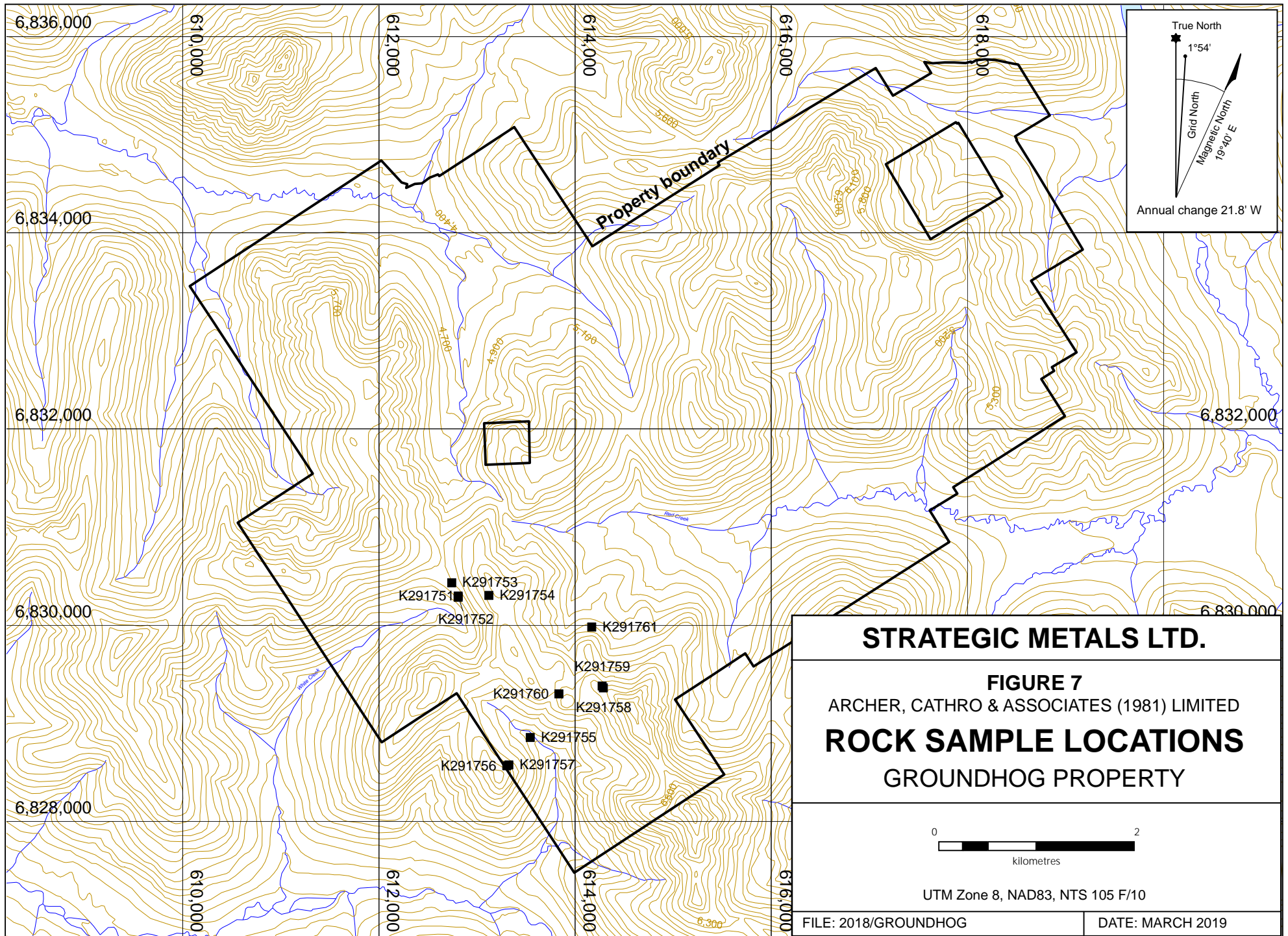
### **Aztek Showing**

The Aztek Showing was identified during the 2009 exploration program. A rock sample from float on a road cut returned 1.81 g/t gold, 486 g/t silver and 14.9% lead. This showing is loosely defined by widely spaced soil sampling, which yielded elevated gold and arsenic values from an area about 2000 m long and up to 1400 m across. Analysis of the VTEM survey shows a magnetic low that approximately coincides with the soil geochemical anomaly. This magnetic low is thought to be associated with zones of intense silicification and silica replacement.

In 2018, a grab sample from subcrop of quartz vein with brecciated fragments of limestone and dolostone returned 13 g/t silver, 0.46% lead and 0.86% zinc.

### **JW Showing**

The JW Showing was discovered in 2008 and is described as a 40 m long shear zone hosted in dolomite (SDd). An area of silicification in the southern part of the shear exposure is mineralized with pods and disseminations of honey sphalerite and minor galena, which exhibit open-space replacement textures. In 2009, two hand trenches positioned seven metres apart were dug across the shear (Figure 9). Chip samples from the northern trench (TR-GH-09-03) averaged 7.33% zinc over 6.9 m. The southern trench (TR-GH-09-04) exposed two bands of mineralization, the better of which returned 4.57% zinc over 0.78 m. Both trenches ended in mineralization.



**STRATEGIC METALS LTD.**

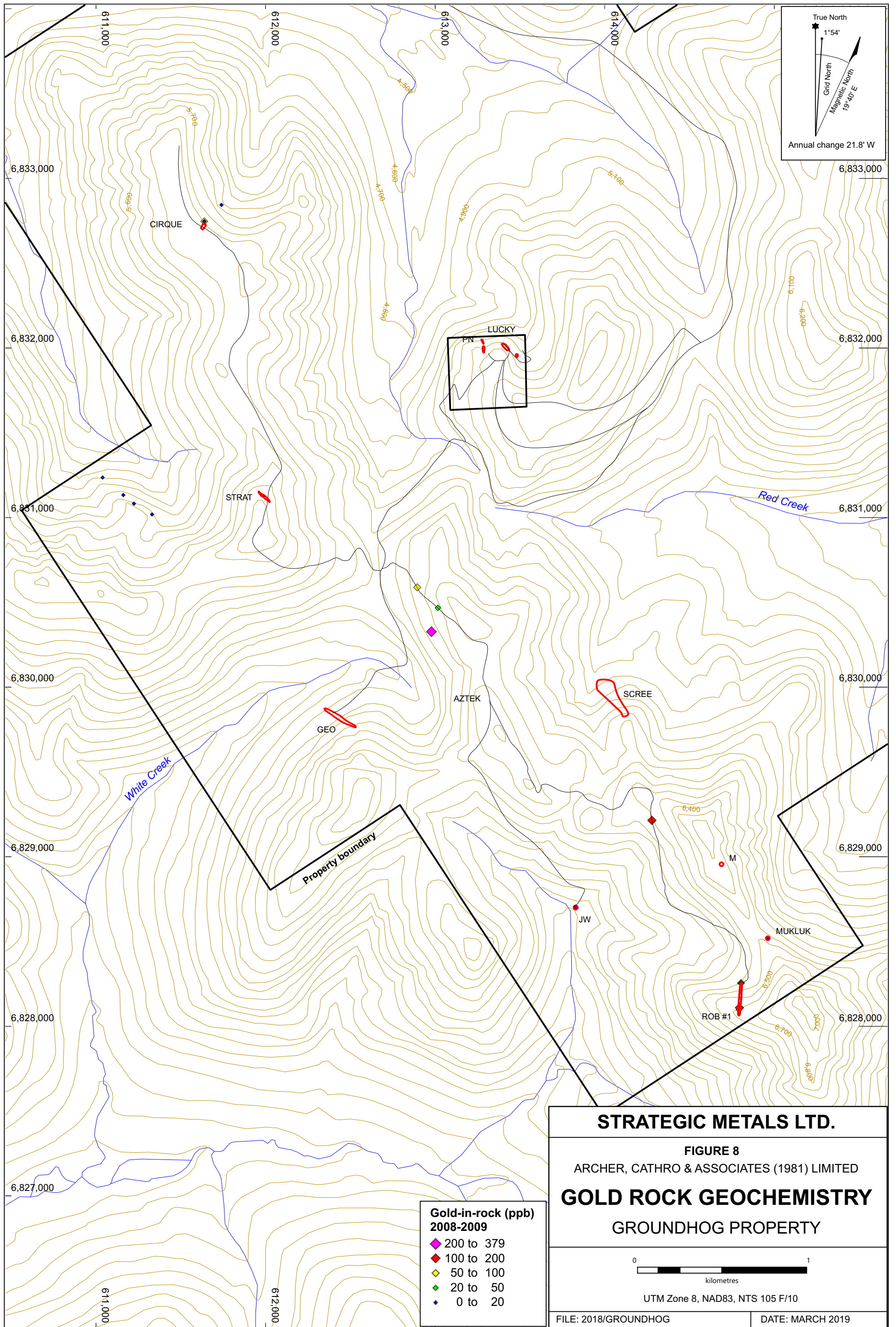
**FIGURE 7**  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**ROCK SAMPLE LOCATIONS**  
 GROUNDHOG PROPERTY



UTM Zone 8, NAD83, NTS 105 F/10

FILE: 2018/GROUNDHOG

DATE: MARCH 2019



True North  
 1°54'  
 Grid North  
 Magnetic North  
 19°40' E  
 Annual change 21.8' W

- Gold-in-rock (ppb)  
 2008-2009**
- ◆ 200 to 379
  - ◆ 100 to 200
  - ◆ 50 to 100
  - ◆ 20 to 50
  - ◆ 0 to 20

**STRATEGIC METALS LTD.**

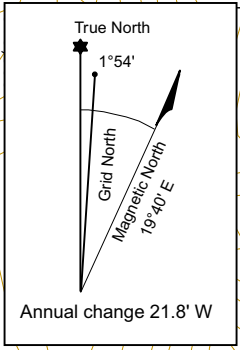
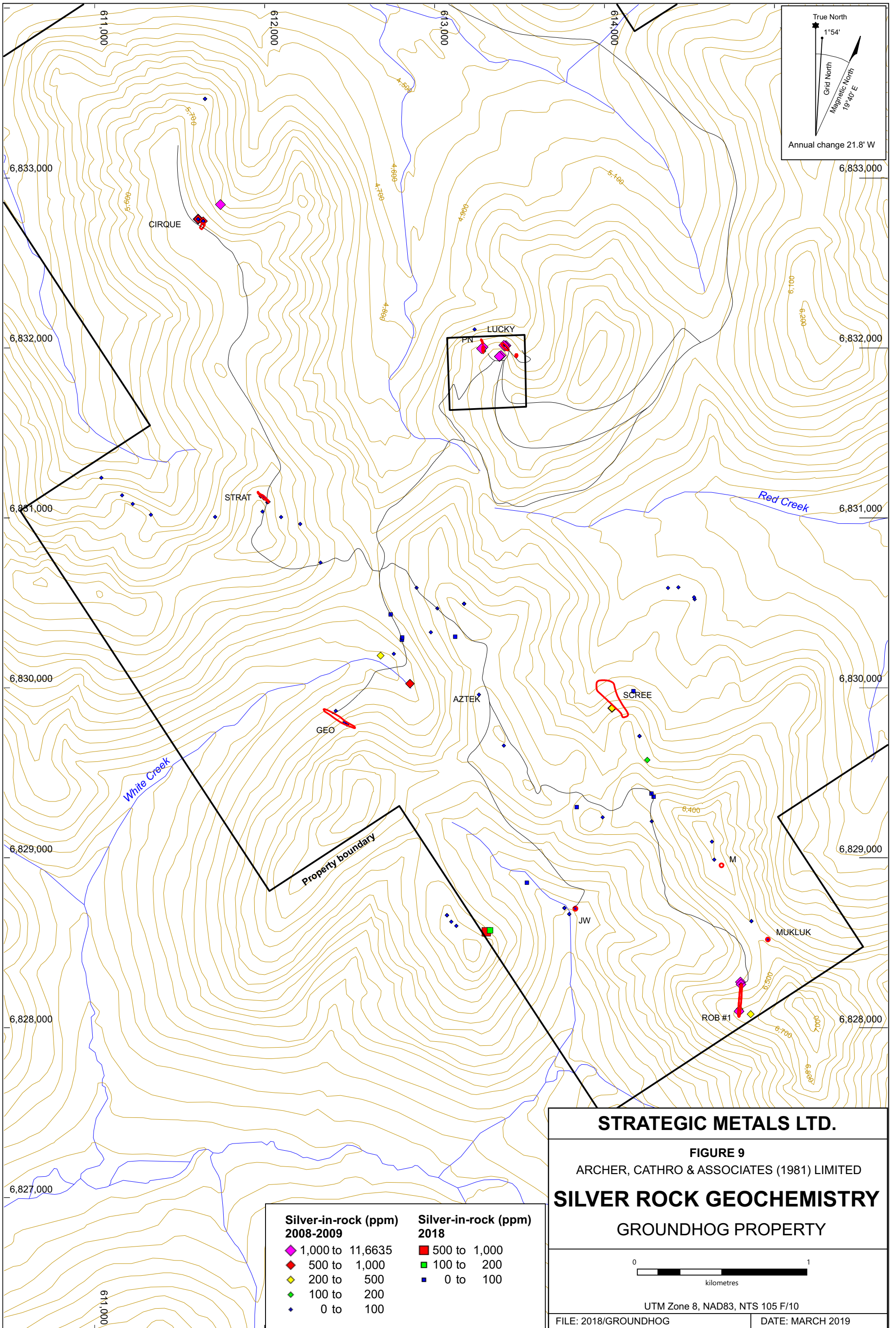
FIGURE 8  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**GOLD ROCK GEOCHEMISTRY**  
 GROUNDHOG PROPERTY

0 ————— 1  
 kilometres

UTM Zone 8, NAD83, NTS 105 F/10

FILE: 2018/GROUNDHOG      DATE: MARCH 2019



Silver-in-rock (ppm) 2008-2009	Silver-in-rock (ppm) 2018
◆ 1,000 to 11,6635	■ 500 to 1,000
◆ 500 to 1,000	■ 100 to 200
◆ 200 to 500	■ 0 to 100
◆ 100 to 200	
◆ 0 to 100	

**STRATEGIC METALS LTD.**

**FIGURE 9**

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

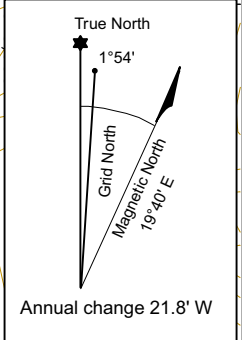
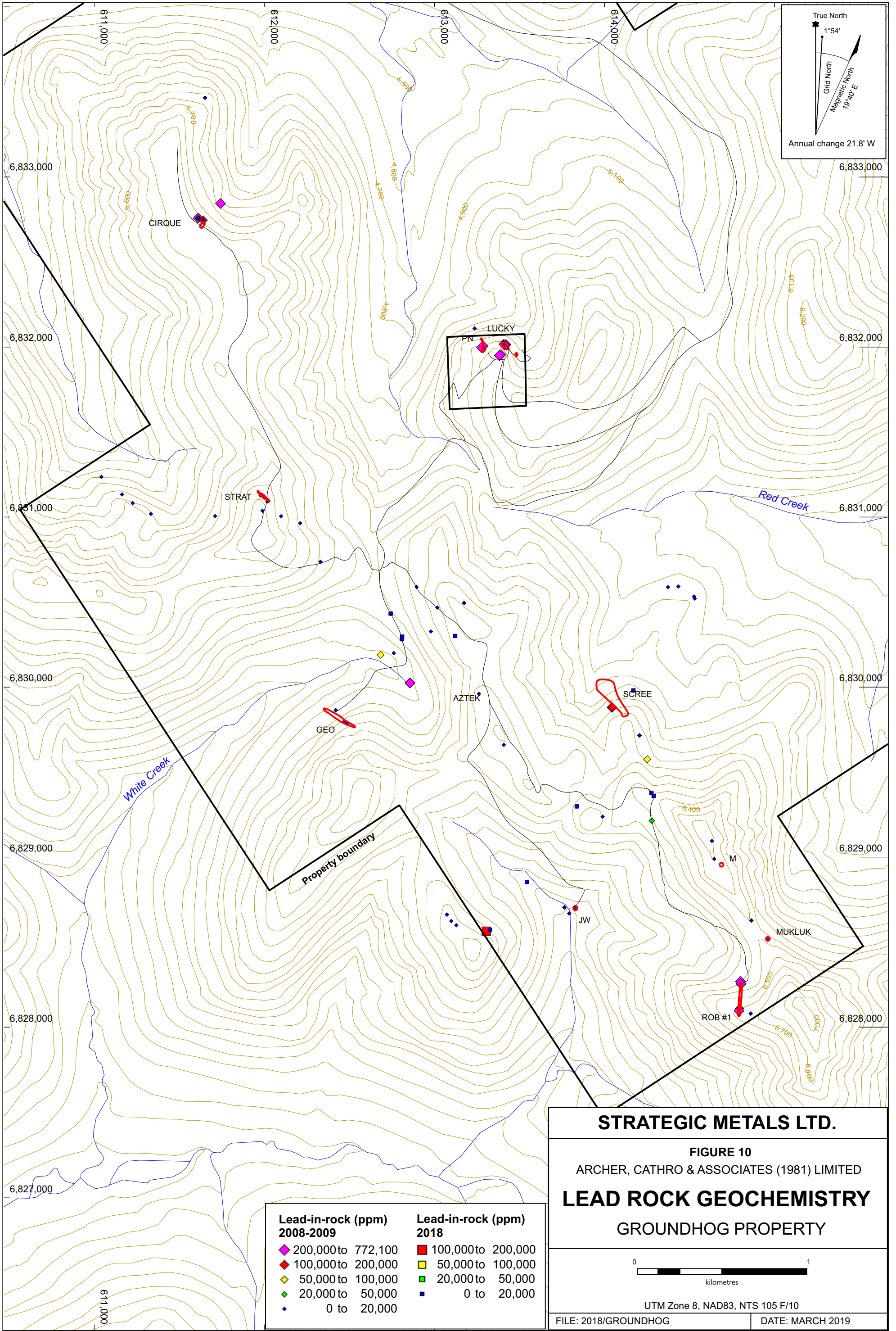
**SILVER ROCK GEOCHEMISTRY**

GROUNDHOG PROPERTY



UTM Zone 8, NAD83, NTS 105 F/10

FILE: 2018/GROUNDHOG      DATE: MARCH 2019



Lead-in-rock (ppm) 2008-2009	Lead-in-rock (ppm) 2018
◆ 200,000 to 772,100	■ 100,000 to 200,000
◆ 100,000 to 200,000	■ 50,000 to 100,000
◆ 50,000 to 100,000	■ 20,000 to 50,000
◆ 20,000 to 50,000	■ 0 to 20,000
◆ 0 to 20,000	

**STRATEGIC METALS LTD.**

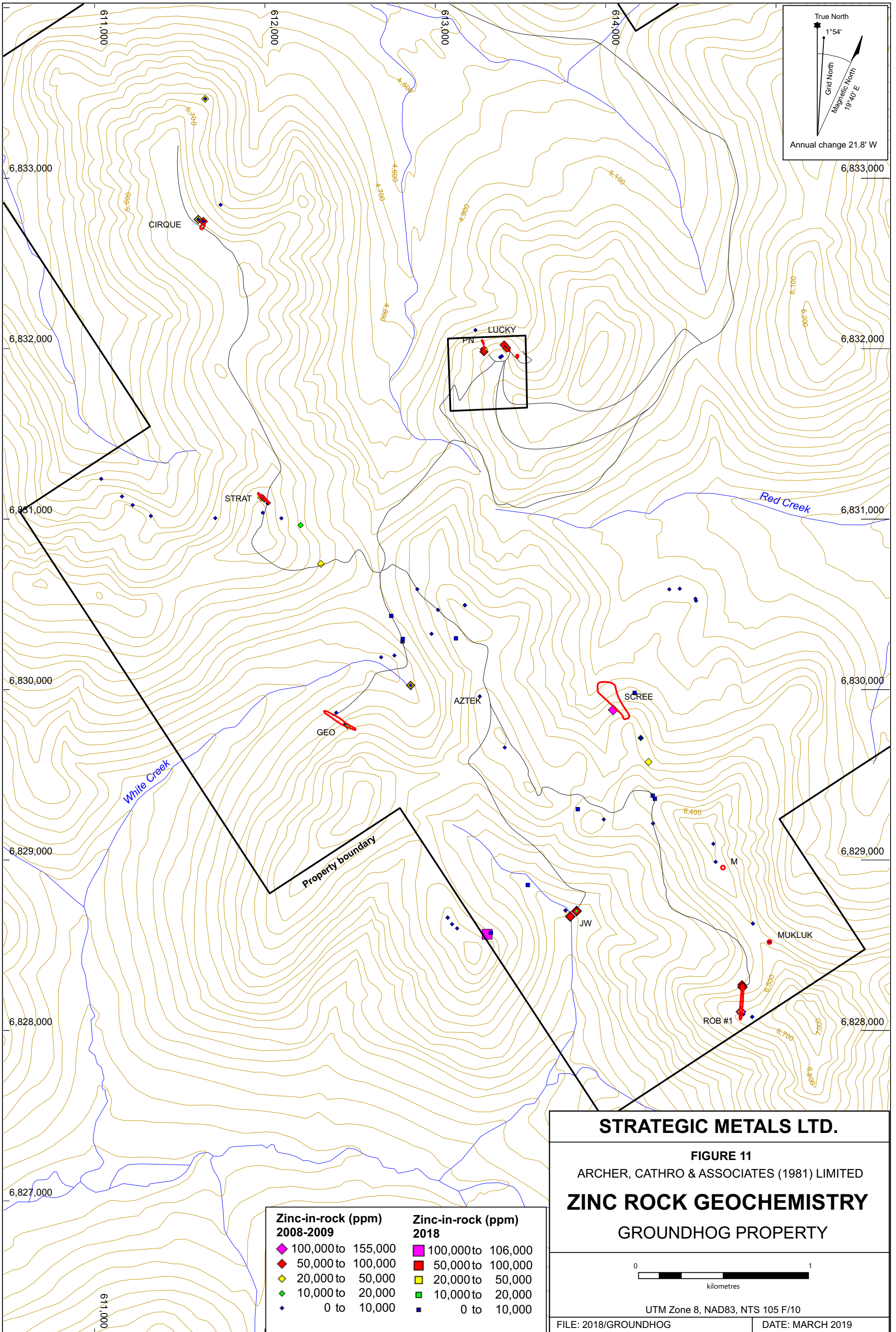
**FIGURE 10**  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**LEAD ROCK GEOCHEMISTRY**  
GROUNDHOG PROPERTY

0 1  
kilometres

UTM Zone 8, NAD83, NTS 105 F/10

FILE: 2018/GROUNDHOG      DATE: MARCH 2019



In 2018, a grab sample from a limestone breccia boulder uphill to the west of the JW Showing returned 577 g/t silver, 19.75% lead and 10.6% zinc.

### **Cirque Showing**

The Cirque Showing is located along the flat top of a prominent northwest-trending ridge, which is underlain mainly by resistant weathering dolomite (SDd). The showing is located toward the north end of the Sheep Trend.

Mineralization at the Cirque Showing consists of three parallel quartz-siderite veins and stockworks bearing galena, tetrahedrite, azurite, malachite and sphalerite. Limonite and manganese alteration are developed in wallrocks peripheral to the veins. The veins have been exposed in trenches over a length of 400 m length and are open along strike in both directions. The southern projection is covered by talus and felsenmeer and the northern projection is obscured by heavy vegetation and till in the Groundhog Creek valley.

In 2008, a rock sample of the exposed vein returned 11,663.5 g/t silver, 64.7% lead and 3.7% copper, while a chip sample across strongly limonitic wallrocks directly adjacent to the vein returned 388 g/t silver, 4.4% lead and 7.8% zinc over one metre.

In 2009, an eight metre wide exposure across one of the veins was mapped and sampled. Chip sampling across a vein and the adjacent hanging wall yielded a weighted average of 120 g/t silver over 2.98 m, while a different sample of only the vein material returned 852 g/t silver, 18.95% lead and 9.64% zinc over 0.35 m.

### **Scree Showing**

The Scree Showing was discovered in 2008 during prospecting on a talus slope. A float sample from the slope returned 983 g/t silver and 45.77% lead. The showing is located along the Lucky Trend in the south-central part of the property. A large area containing sparse quartz vein and massive galena float below a band of rusty cliffs was outlined in 2009. Prospecting along the cliffs was unsuccessful and it was hypothesized that the source of the float had been eroded away, or buried under talus.

### **Rob #1 Showing**

The Rob 1 Showing hosts a north-trending limonite altered vein fault with localized galena pods and strong malachite staining. The showing is at the south end of the property on the western flank of Pass Peak. The area was discovered in 2008, but could not be followed up due to deep snow cover. A float sample taken in 2008 assayed 2000 g/t silver, 77.21% lead, and 1.3% copper.

Prospecting in 2009 traced mineralized float about 200 m uphill from a small bedrock exposure developed where the float train crosses the access road. The most abundant float occurs in an area of shallow overburden on a ridge crest on the western flank of Pass Peak. No prospecting has been done south of the ridge crest. The orientation of the float train is consistent with the



strike observed in the bedrock exposure. A chip sample returned 382.6 g/t silver, 14.47% lead, and 7.15% zinc over 0.5 m, while a grab sample of well mineralized vein assayed 2440 g/t silver, 58.57% lead, and 5.69% zinc. The best of the grab samples from the ridge crest yielded 1665 g/t silver and 72.92% lead.

### **Strat and Geo Showings**

The Strat and Geo showings consist of laminated and disseminated galena, sphalerite and chalcopryrite in a Lower Cambrian unit comprised of tuffaceous phyllite and quartz-carbonate phyllite. These showings are located 1500 m apart on the opposite sides of a broad valley. They lie within the same stratigraphic section, directly above the Pass Peak Thrust Fault. The Strat Showing has been traced for a length of approximately 100 m, with thicknesses ranging between 0.5 and 2 m. The Geo Showing has been traced for a length of over 200 m, and range between 1 and 2 m in width.

In 2009, chip samples were collected from three hand trenches that were dug at the Strat Showing within historical bulldozer trenches, and two chip samples were taken at the Geo Showing from outcrops. Most of these samples returned sub-economic values for silver, lead and zinc. The best samples from the Strat Showing returned 13.9 g/t silver, 0.50% lead and 1.47% zinc over 0.78 m and 23.3 g/t silver, 0.58% lead and 2.19% zinc across 0.25 m. The best sample from the Geo Showing yielded 3.4 g/t silver, 0.25% lead and 0.28% zinc over 2.2 m.

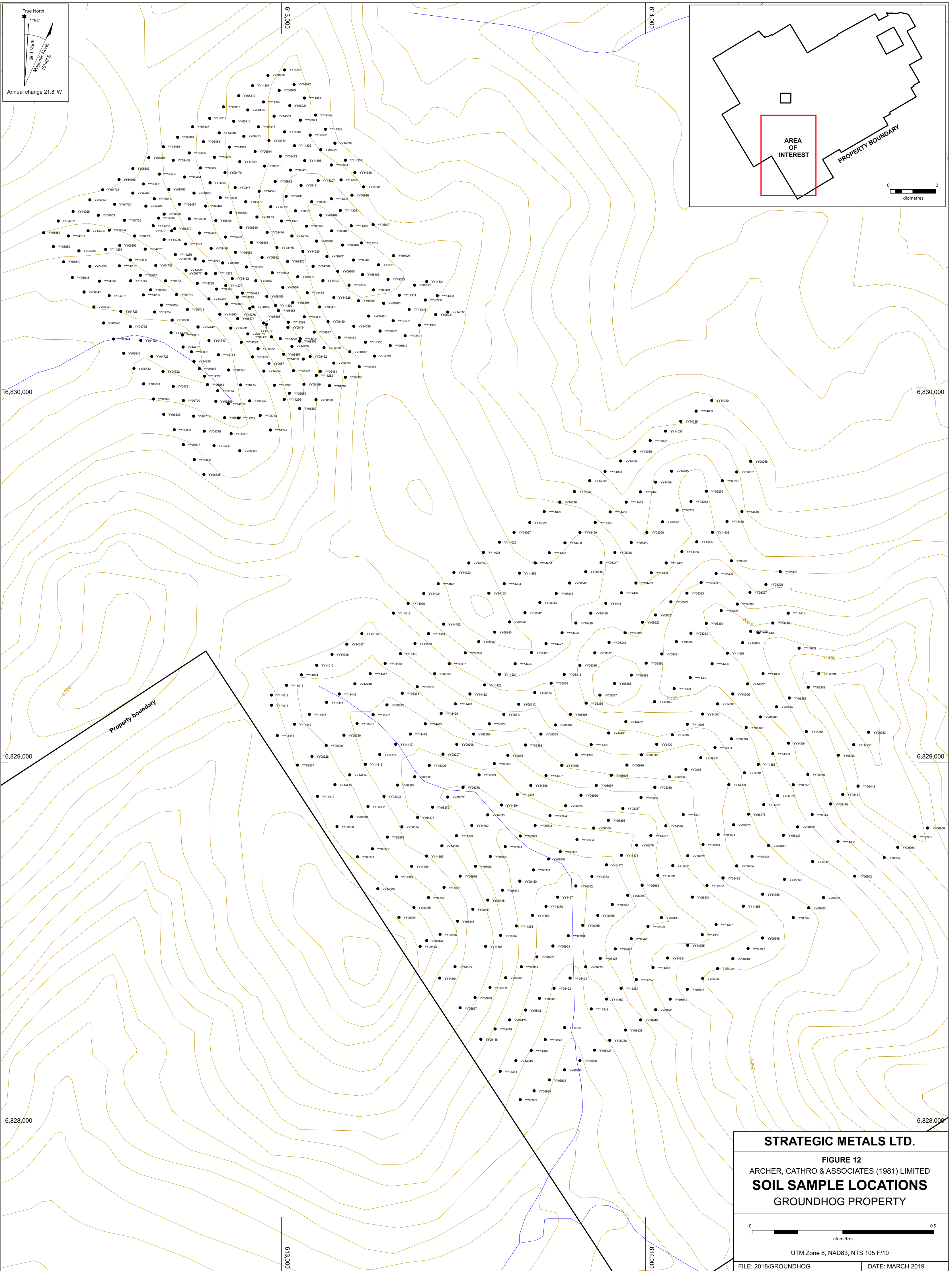
### **SOIL GEOCHEMISTRY**

In 2018, a total of 663 soil samples were taken from two grids positioned to cover spot-high gold-in-soil values from earlier contour soil sampling. The first grid covered an 800 m by 800 m area within the Aztek Showing, while the second grid spanned 1500 m by 1500 m overtop of the JW showing. The Aztek grid was setup at 50 metre by 50 metre spacing between samples, while the larger JW grid was established so that samples were taken every 50 metres along lines that were spaced 100 metres apart.

Sample handling and analytical procedures used in 2018 are described in Appendix IV and Certificates of Analysis are provided in Appendix V. Anomalous thresholds for soil values are listed in Tables III below. Figure 12 shows 2018 soil sample locations. Figures 13 to 17 illustrate thematic results for gold, arsenic, silver, lead and zinc, respectively.

**Table III – Anomalous Thresholds for Soil Samples**

<b>Element</b>	<b>Weak</b>	<b>Moderate</b>	<b>Strong</b>	<b>2018 Peak</b>	<b>Historical Peak</b>
Silver (ppm)	>2 ≤5	>5 ≤10	>10	36.5	72.2
Lead (ppm)	>100 ≤200	>200 ≤500	>500	5,640	34,200
Zinc (ppm)	>200 ≤500	>500 ≤1000	>1000	3,320	13,900
Gold (ppb)	>20 ≤50	>50 ≤100	>100	1,650	327
Arsenic (ppm)	>50 ≤100	>75 ≤150	>150	2,240	1,940



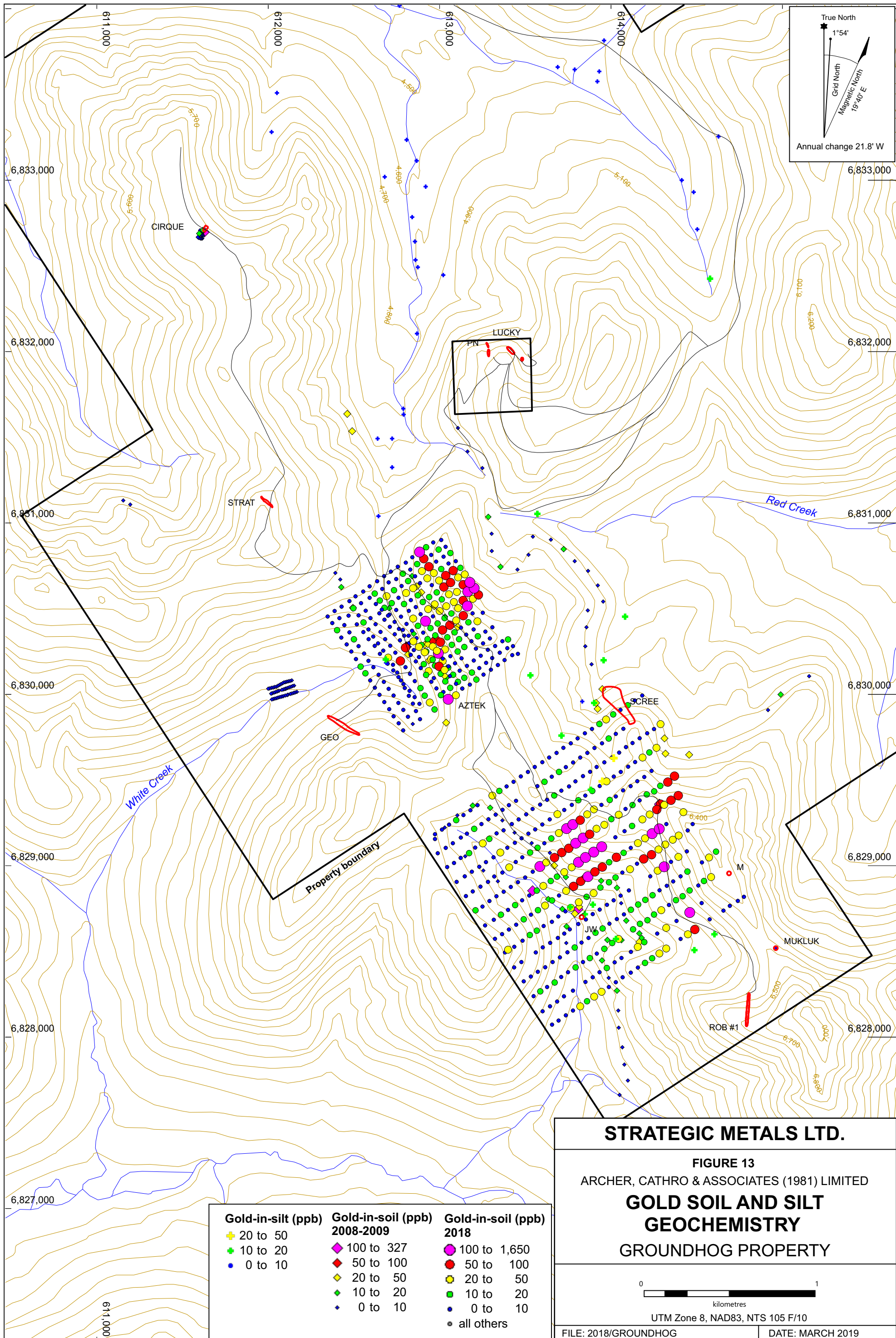
**STRATEGIC METALS LTD.**

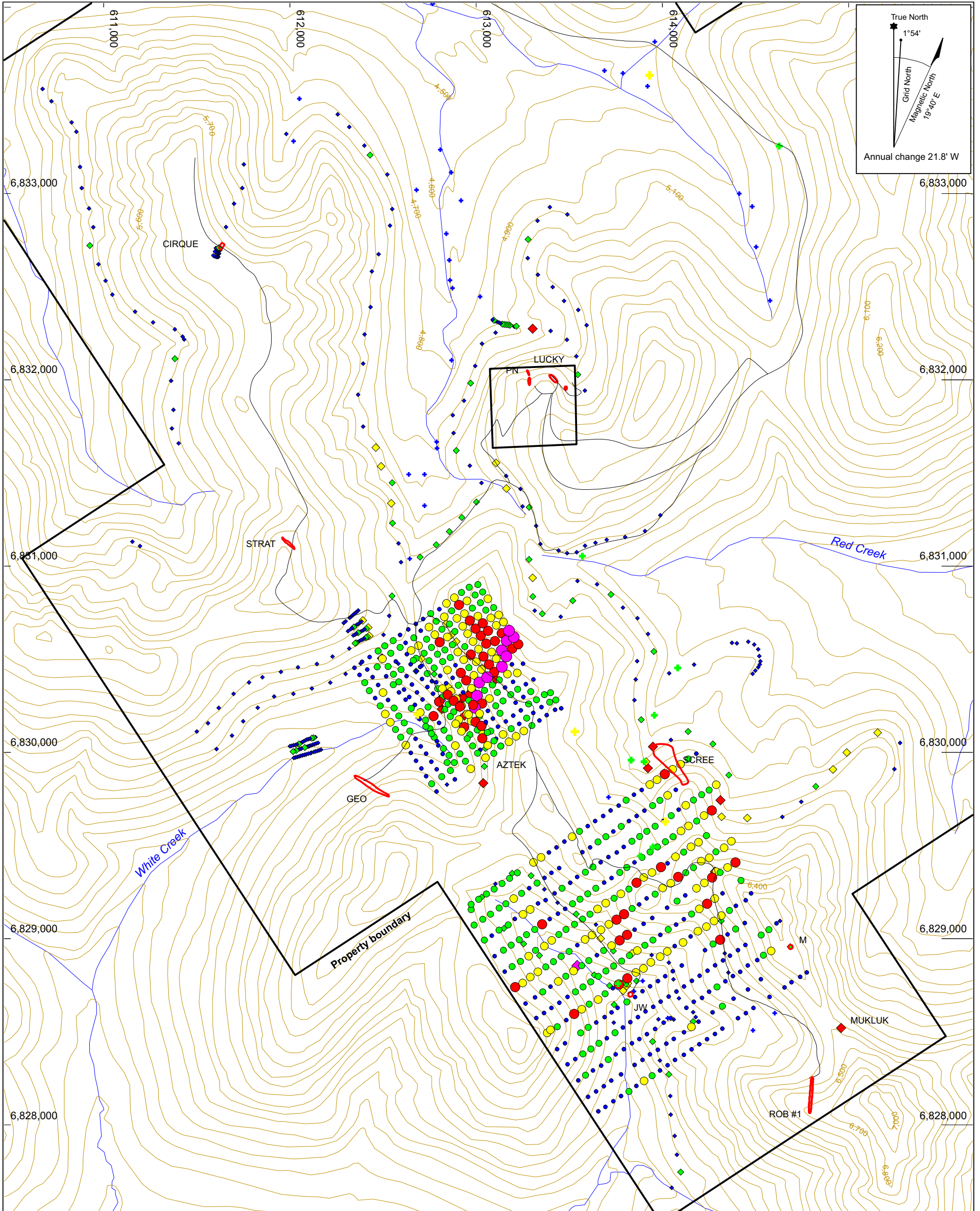
**FIGURE 12**  
**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**SOIL SAMPLE LOCATIONS**  
**GROUNDHOG PROPERTY**

0 0.5 kilometres

UTM Zone 8, NAD83, NTS 105 F/10

FILE: 2018/GROUNDHOG DATE: MARCH 2019





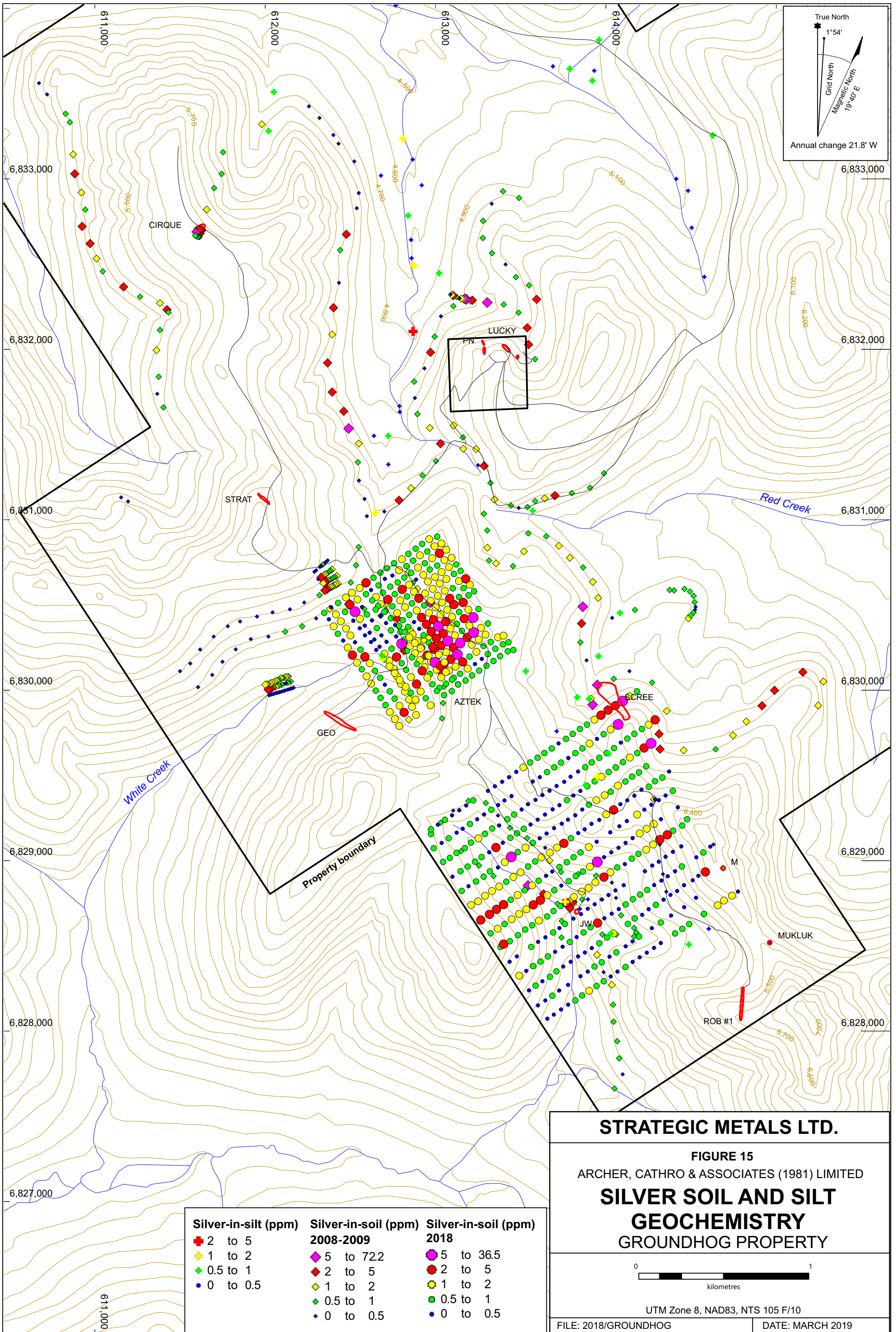
Arsenic-in-silt (ppm)	Arsenic-in-soil (ppm) 2008-2009	Arsenic-in-soil (ppm) 2018
500 to 2,240	500 to 1,940	500 to 2,240
200 to 500	200 to 500	200 to 500
100 to 200	100 to 200	100 to 200
50 to 100	50 to 100	50 to 100
0 to 50	0 to 50	0 to 50
• all others		

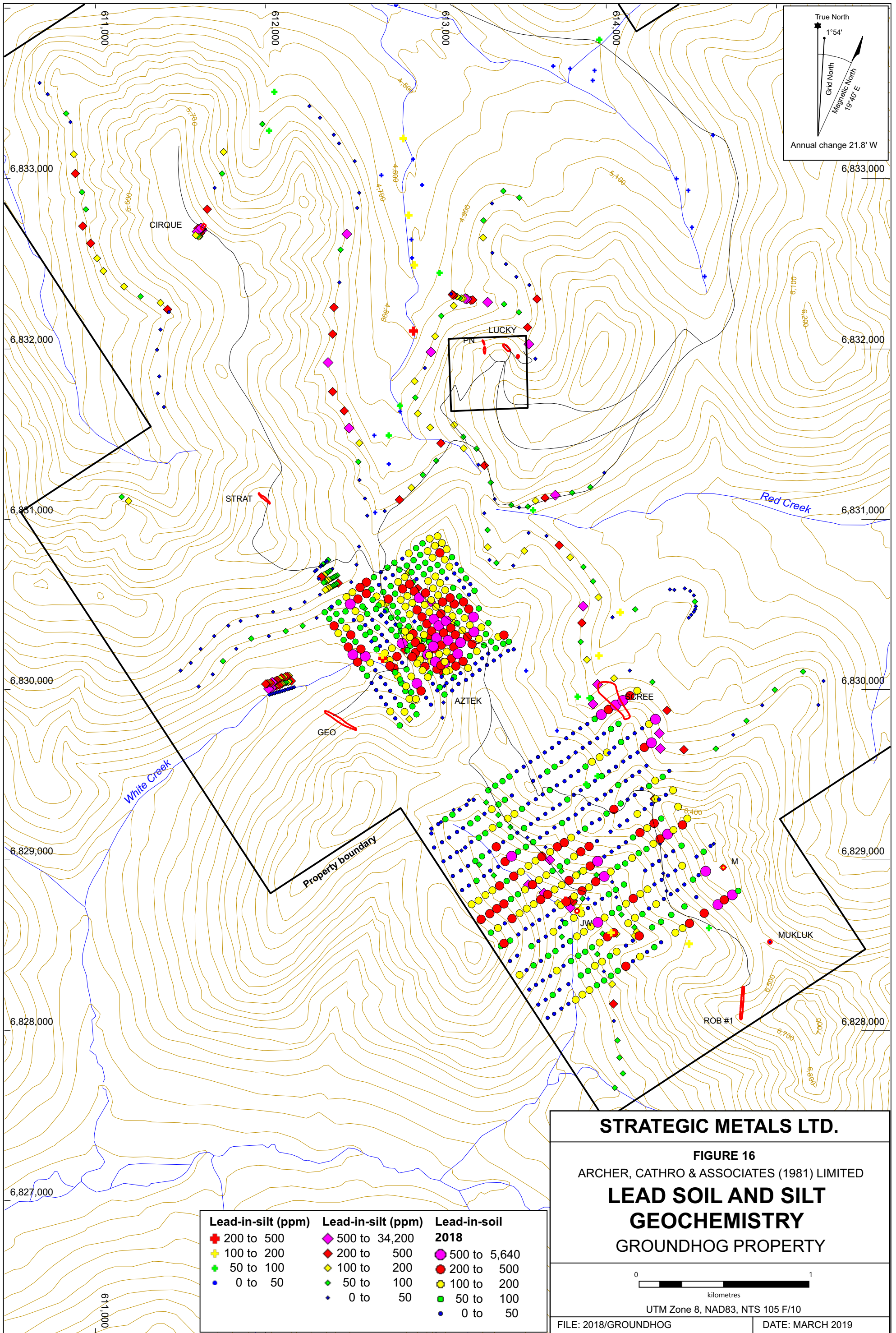
**STRATEGIC METALS LTD.**

**FIGURE 14**  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**ARSENIC SOIL AND SILT  
 GEOCHEMISTRY**  
 GROUNDHOG PROPERTY

0 1  
 kilometres  
 UTM Zone 8, NAD83, NTS 105 F/10

FILE: 2018/GROUNDHOG      DATE: MARCH 2019





True North  
 1°54'  
 Grid North  
 Magnetic North  
 19°40' E  
 Annual change 21.8' W

Lead-in-silt (ppm)	Lead-in-silt (ppm)	Lead-in-soil
200 to 500	500 to 34,200	2018
100 to 200	200 to 500	500 to 5,640
50 to 100	100 to 200	200 to 500
0 to 50	50 to 100	100 to 200
	0 to 50	50 to 100
		0 to 50

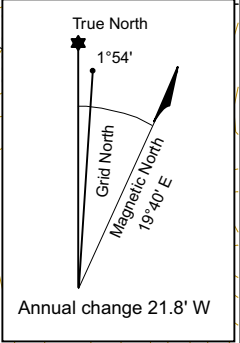
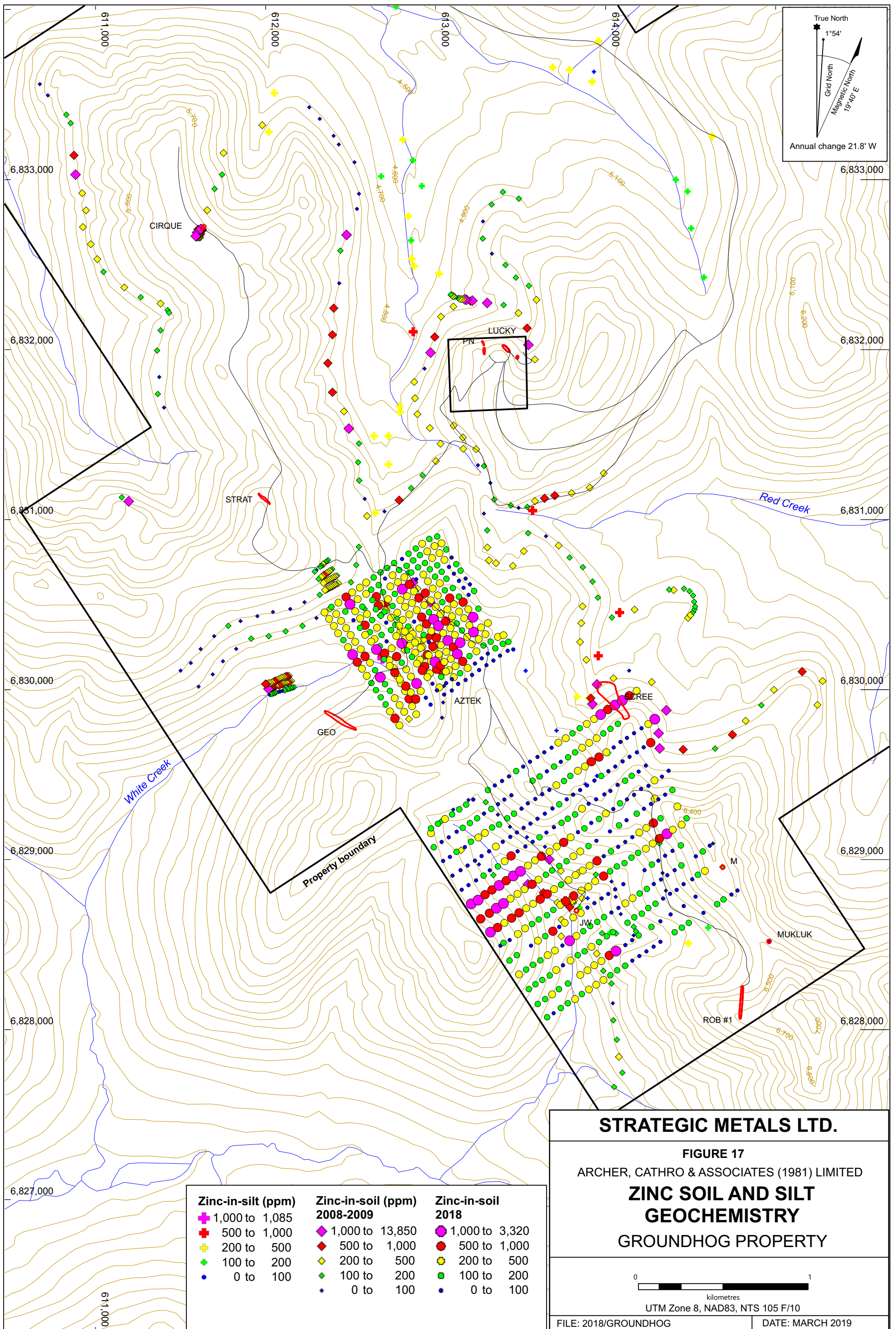
**STRATEGIC METALS LTD.**

FIGURE 16  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**LEAD SOIL AND SILT  
 GEOCHEMISTRY**  
 GROUNDHOG PROPERTY

0 1  
 kilometres

UTM Zone 8, NAD83, NTS 105 F/10

FILE: 2018/GROUNDHOG DATE: MARCH 2019



Zinc-in-silt (ppm)	Zinc-in-soil (ppm) 2008-2009	Zinc-in-soil 2018
1,000 to 1,085	1,000 to 13,850	1,000 to 3,320
500 to 1,000	500 to 1,000	500 to 1,000
200 to 500	200 to 500	200 to 500
100 to 200	100 to 200	100 to 200
0 to 100	0 to 100	0 to 100

**STRATEGIC METALS LTD.**

**FIGURE 17**  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**ZINC SOIL AND SILT  
 GEOCHEMISTRY**  
 GROUNDHOG PROPERTY

0 1  
 kilometres  
 UTM Zone 8, NAD83, NTS 105 F/10

FILE: 2018/GROUNDHOG      DATE: MARCH 2019

### **Azteck Showing**

At the Aztek Showing, elevated gold and arsenic soil geochemical values form an oval approximately 800 m long and 350 m wide. Results are very promising with anomalous soil values ranging between 20 and 1650 ppb gold and 100 to 2240 ppm arsenic. Silt samples taken in 2008 from the creeks that drain this area also returned anomalous values for both gold and arsenic. Coincident silver, lead and zinc response in this area is also strong.

The anomalous gold and arsenic values exhibit a near-linear trend that suggests a structural control on mineralization. The Azteck Showing lies in an area where several mapped faults come together and these may have provided a network of conduits for favourable mineralizing fluids. A possible structure, sub-parallel to others mapped in the area may exist, running through the Aztek showing with a northeast strike (Figure 18).

### **JW Showing**

At the JW showing, strongly anomalous gold-in-soil values (up to 560 ppb) form a cluster in the centre of the grid. Gold values do not correspond well with arsenic values at this showing. There is not an obvious linear trend to the strongly anomalous gold-in-soil values; however, a rough east-northeast striking fault could be present and would explain the alignment of many high gold-in-soil values (Figure 18).

Moderate to strong values for silver, lead and zinc at the JW Showing do not correlate with gold or arsenic. The silver, lead and zinc values have good correlation with each other and occur within two separate zones in the 2018 grid. One cluster lies just west of the actual JW Showing, while the other overlaps the Scree Showing in the northeastern part of the grid.

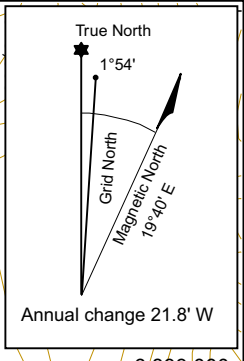
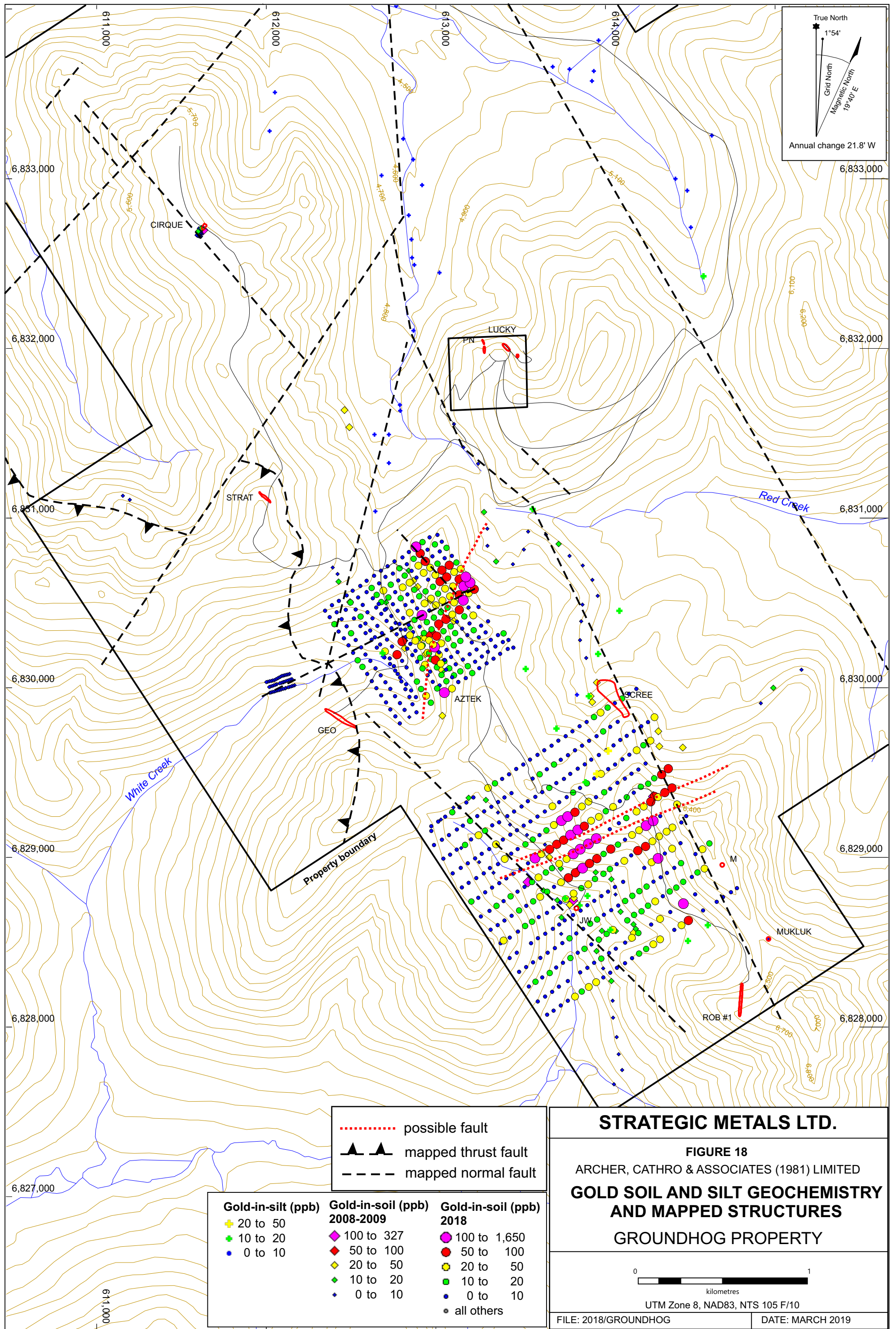
## **DISCUSSION AND CONCLUSIONS**

The Groundhog property hosts numerous silver-lead±zinc±gold showings, most of which are hosted in fault structures as vein, breccia and replacement zones within Silurian-age carbonate rocks. Recent exploration programs have identified gold potential on the property, in addition to the base metal mineralization. The relative close proximity of the Ketz gold-bearing manto deposit and Tay LP gold-bearing skarn and breccia showings make these three styles of gold mineralization potential exploration targets for future work on the Groundhog property.

All of the historical work programs on the current Groundhog property have been executed on a piecemeal basis, yet these programs have yielded highly encouraging results, which speaks to the robust mineral potential on the property. Prior to any additional field programs, a thorough compilation of the historical work and results is required. Following the compilation evaluation survey, exploration targets on the property should be prioritized for follow up work.

Future work is recommended for the Groundhog property. This work should consist of a compilation evaluation survey, detailed structural mapping, prospecting, soil sampling, hand and mechanized trenching, and rotary air blast, reverse circulation or diamond drilling once additional drill targets have been identified.





- ..... possible fault
- ▲▲ mapped thrust fault
- mapped normal fault

Gold-in-silt (ppb)	Gold-in-soil (ppb) 2008-2009	Gold-in-soil (ppb) 2018
✚ 20 to 50	◆ 100 to 327	● 100 to 1,650
✚ 10 to 20	◆ 50 to 100	● 50 to 100
● 0 to 10	◆ 20 to 50	● 20 to 50
	◆ 10 to 20	● 10 to 20
	◆ 0 to 10	● 0 to 10
		● all others

**STRATEGIC METALS LTD.**

**FIGURE 18**  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**GOLD SOIL AND SILT GEOCHEMISTRY  
 AND MAPPED STRUCTURES**  
 GROUNDHOG PROPERTY

UTM Zone 8, NAD83, NTS 105 F/10

FILE: 2018/GROUNDHOG      DATE: MARCH 2019

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

A handwritten signature in blue ink that reads "Steve Israel". The signature is written in a cursive style with a large, sweeping initial "S".

Steve Israel, PhD

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Yukon Geological Survey

2019 <http://mapservices.gov.yk.ca/YGS/Load.htm>

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

## STATEMENT OF QUALIFICATIONS

I, Steve Israel, geologist, 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 1998 from Memorial University of Newfoundland and Labrador with a B.Sc (hons) in Geological Sciences, and received a M.Sc. (2001) and Ph.D. (2008) from the University of British Columbia
2. From 2004 to 2018, I worked as a regional bedrock mapper for the Yukon Geological Survey and have considerable expertise in North American Cordilleran geology.
3. I have worked as a contractor for exploration companies in British Columbia, Yukon and Mexico.
4. I am a full-time employee of Archer, Cathro & Associates (1981) Limited.
5. I have personally interpreted all data resulting from this work.



Steve Israel, Ph.D.

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

**Statement of Expenditures  
Groundhog Property  
January 18, 2019**

**Labour**

Employee	Job Description	Hours	Time Period	Rate/hr	Total
Doug Eaton	Sr. Geologist	4	March 6/18 - January 15/19	\$ 120.00	\$ 480.00
Heather Burrell	Sr. Geologist	44	March 6/18 - January 15/19	\$ 111.00	\$ 4,884.00
Hugh Fordyce-Fortune	Field Labour	16	March 6/18 - January 15/19	\$ 47.00	\$ 752.00
Jason Brockman-Jack	Field Labour	80	March 6/18 - January 15/19	\$ 47.00	\$ 3,760.00
Kyle Risby	Field Labour	84	March 6/18 - January 15/19	\$ 51.00	\$ 4,284.00
Liz Smith	Logistics & Field Support	17	March 6/18 - January 15/19	\$ 83.00	\$ 1,411.00
Lorna Corbett	Logistics & Office	19	March 6/18 - January 15/19	\$ 83.00	\$ 1,577.00
Martin Kulla	Geologist	128	March 6/18 - January 15/19	\$ 62.00	\$ 7,936.00
Matt Van Loon	Field Labour	16	March 6/18 - January 15/19	\$ 80.00	\$ 1,280.00
Scott Newman	Office & Mapping	9	March 6/18 - January 15/19	\$ 69.00	\$ 621.00
Shawn Slipetz	Expediting	12	March 6/18 - January 15/19	\$ 69.00	\$ 828.00
Virginia Cobbett	Support	12	March 6/18 - January 15/19	\$ 69.00	\$ 828.00
Wayne Schneider	Logistics & Support	28	March 6/18 - January 15/19	\$ 98.00	\$ 2,744.00
					<u>\$ 31,385.00</u>

**Expenses**

Field room and board	31 mandays	\$ 100.00 /per day	\$ 3,100.00
Whitehorse room and board	9 mandays	\$ 180.00 / per day	\$ 1,620.00
Kubtoa RTV Rental			\$ 1,400.00
ALS Chemex, as attached			\$ 12,813.26
			<u>\$ 18,933.26</u>

Total 2018 expenditures \$ 50,318.26

Cost per sample \$ 75.10



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

---

**Rock Sample Descriptions**Property: Groundhog

---

Sample Number: K291751 UTM: 612808 mE Nad83, Zone 8

Elevation: 1651 m UTM: 6830283 mN

Comments: From slumped slope on side of road near high gold in-soil anomaly. Massive quartz, fractured, with contact with tan-red dolomite and minor disseminated galena. Slump has few quartz cobbles.

---

Sample Number: K291752 UTM: 612809 mE Nad83, Zone 8

Elevation: 1653 m UTM: 6830296 mN

Comments: From slumped slope on side of road. Massive quartz breccia.

---

Sample Number: K291753 UTM: 612742 mE Nad83, Zone 8

Elevation: 1683 m UTM: 6830432 mN

Comments: Quartz matrix breccia with sub-angular to angular clasts of shale/phyllite and small disseminated blebs of galena. From road cut. Source not identified due to overburden and lack of outcrop. Surrounded by dolomite cobbles.

---

Sample Number: K291754 UTM: 613121 mE Nad83, Zone 8

Elevation: 1821 m UTM: 6830301 mN

Comments: Quartz vein with semi-massive galena in contact with dark grey to black-brown dolomite. From subcrop of brecciated dolomite.

---

Sample Number: K291755 UTM: 613543 mE Nad83, Zone 8

Elevation: 1644 m UTM: 6828853 mN

Comments: From 0.75m x 1m x 1m hand pit on slope above creek. Bedrock not reached. Material in pit shows signs of slumping, source likely upslope. Sample is dark brown-grey weather, coarse grained, white to grey carbonate with variable occurrences of bands or pods of a fine-grained and crystalline, dark grey mineral. Minor occurrences of a very fine grained black metallic mineral (<1%) on some surfaces. Minor orange staining on fractured surfaces.

---

Sample Number: K291756 UTM: 613304 mE Nad83, Zone 8

Elevation: 1818 m UTM: 6828564 mN

Comments: Tan-orange-buff weathering limestone breccia boulder. Sub-angular to angular clasts of limestone and coarse grained carbonate. Pitted limonitic matrix with ~5% semi-massive galena. Limonitic and brown oxide coatings. Only boulder nearby in limestone talus.

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**Rock Sample Descriptions**Property: Groundhog

---

Sample Number: K291757 UTM: 613326 mE Nad83, Zone 8

Elevation: 1807 m UTM: 6828573 mN

Comments: Boulder of massive quartz vein in limestone float train. Pitted weathered surfaces with semi-massive oxidized blebs in pits. Limonitic cavities, galena blebs and stringers (~5%). Minor malachite and azurite, and green staining of massive quartz. ~2% quartz vein cobbles and boulders in float.

---

Sample Number: K291758 UTM: 614289 mE Nad83, Zone 8

Elevation: 1894 m UTM: 6829359 mN

Comments: From 0.5m x 0.75m x 0.5m hand pit. Limonitic and oxidized cobble with breccia textures. No visible mineralization.

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Sample Number: K291759 UTM: 614276 mE Nad83, Zone 8

Elevation: 1893 m UTM: 6829378 mN

Comments: From nearby K291758 handpit. Weakly brecciated with minor limonitic/oxide coatings.

---

Sample Number: K291760 UTM: 613836 mE Nad83, Zone 8

Elevation: 1837 m UTM: 6829298 mN

Comments: Dark brown-orange weathering, heavily oxidized and limonitic cobbles in 10m x 20m float train of tan-buff limestone/dolostone. Ghost breccia textures. Sample was collected from several cobbles along the float train.

---

Sample Number: K291761 UTM: 614170 mE Nad83, Zone 8

Elevation: 1699 m UTM: 6829980 mN

Comments: Cobble of quartz vein with limestone/dolostone fragments and minor, semi-massive galena blebs and minor malachite staining (?). From talus slope below limestone outcrop. Talus is ~5% of similar looking material.

---

**APPENDIX IV**  
**SAMPLE HANDLING AND ANALYTICAL PROCEDURES**

## SAMPLE HANDLING AND ANALYTICAL PROCEDURES

All rock and soil samples collected during the 2018 program were sorted into rice bags and sealed with a plastic zap strap on the Groundhog property. Samples were brought to Whitehorse by Archer Cathro personnel.

Sample bags were temporarily stored at the Archer Cathro office prior to shipment. All samples were shipped via Greyhound Courier Express to ALS in North Vancouver, British Columbia.

### Rock Geochemical Samples

All rock sample sites in 2018 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.

The rock samples were submitted to ALS in North Vancouver, British Columbia where they were dried and fine crushed to -2 mm. A 250 g split was then pulverized to 75 micron and a portion of this material was digested in aqua regia before being analyzed for 34 elements by the inductively coupled plasma-atomic emission spectroscopy technique (ME-ICP41). Gold analysis was done using AU-ICP21. Overlimit samples for silver and lead were analyzed using Ag-GRA21 and Pb-OG62 respectively.

### Soil Geochemical Samples

Six hundred and sixty three soil samples were collected from two grids, an 800m x 800m and a 1500m x 1500m oriented northeast southwest. Samples were collected using hand augers from depths of 5-100cm. Samples on the smaller grid were collected every 50m from 50m spaced lines. Samples from the large grid were collected every 50m from 100m spaced lines. All soil geochemical samples collected on the property were located by means of handheld GPS units. Sample locations were marked with orange flagging tape and labelled with sample number. Soil samples were and were placed into individual pre-numbered kraft paper bags. The soil samples were sent to ALS, where they were dried and screened to minus 180 microns. A 50 g split of the screened fraction was dissolved in aqua regia and analyzed by ME-ICP41. Gold was analyzed by AU-ICP21

**APPENDIX V**  
**CERTIFICATES OF ANALYSIS**



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**Finalized Date: 31- AUG- 2018**  
**Account: MTT**

**CERTIFICATE WH18199706**

Project: GROUNDHOG

This report is for 250 Soil samples submitted to our lab in Whitehorse, YT, Canada on 15- AUG- 2018.

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	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

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

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

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: GROUNDHOG

**CERTIFICATE OF ANALYSIS WH18199706**

Sample Description	Method Analyte Units LOD	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
YY14251		0.31	<0.001	0.7	0.53	34	<10	110	<0.5	<2	0.41	<0.5	4	7	35	2.21
YY14252		0.35	0.006	1.7	0.26	69	<10	130	0.5	2	3.07	3.4	10	7	50	2.71
YY14253		0.22	0.003	0.9	0.20	50	<10	210	<0.5	2	4.88	2.7	9	9	44	2.27
YY14254		0.35	0.004	1.3	0.23	57	<10	120	<0.5	<2	3.87	4.0	9	5	45	2.41
YY14255		0.38	0.004	1.0	0.22	46	<10	190	<0.5	<2	3.95	2.1	8	5	38	2.37
YY14256		0.33	0.003	1.2	0.35	51	<10	250	<0.5	<2	2.86	5.3	13	7	44	2.93
YY14257		0.23	0.007	1.6	0.44	70	<10	160	<0.5	<2	1.87	2.4	7	7	38	2.47
YY14258		0.23	0.002	0.5	0.37	48	<10	90	<0.5	<2	0.33	0.6	4	5	18	1.45
YY14259		0.55	0.002	0.4	0.62	55	<10	70	<0.5	<2	6.60	12.2	11	12	32	3.21
YY14260		0.22	<0.001	0.2	1.01	20	<10	120	<0.5	<2	0.74	1.4	6	14	14	2.69
YY14261		0.19	<0.001	0.2	0.90	36	<10	160	<0.5	<2	1.78	1.8	6	12	15	2.68
YY14262		0.23	0.005	0.4	0.85	61	<10	90	<0.5	<2	2.66	1.0	7	17	26	3.04
YY14263		0.23	<0.001	<0.2	0.79	16	<10	50	<0.5	<2	0.11	0.5	4	10	11	1.52
YY14264		0.26	0.002	0.6	0.67	89	<10	80	<0.5	<2	5.10	0.7	7	15	27	2.61
YY14265		0.39	<0.001	0.7	1.05	27	<10	100	0.5	<2	1.31	1.3	13	20	33	3.48
YY14266		0.34	0.007	1.8	0.47	77	10	140	<0.5	<2	6.71	2.0	9	11	40	4.05
YY14267		0.35	0.001	0.7	0.95	66	<10	150	0.5	<2	0.30	1.0	11	17	23	4.26
YY14268		0.31	<0.001	0.6	0.95	43	<10	150	<0.5	<2	0.59	1.0	10	17	26	3.48
YY14269		0.19	0.006	0.8	0.46	82	10	160	<0.5	<2	7.12	4.3	6	9	20	4.70
YY14270		0.30	<0.001	0.5	1.42	30	<10	140	0.5	<2	0.51	0.8	17	20	34	4.51
YY14271		0.27	0.004	0.8	0.87	54	10	210	<0.5	<2	3.87	1.5	10	14	32	3.82
YY14272		0.29	<0.001	0.5	0.97	40	10	130	<0.5	<2	3.00	1.3	9	14	21	4.17
YY14273		0.30	0.007	0.7	0.64	140	10	110	<0.5	<2	9.9	2.2	8	9	20	4.29
YY14274		0.33	0.036	1.1	0.64	325	10	110	<0.5	<2	4.55	2.4	8	9	23	3.68
YY14275		0.29	0.040	1.6	0.54	260	10	90	<0.5	<2	8.5	2.3	8	9	29	3.91
YY14276		0.23	0.026	1.3	0.65	210	10	70	<0.5	<2	6.80	1.9	10	11	24	3.86
YY14277		0.29	0.014	1.1	0.56	189	10	80	<0.5	<2	8.1	1.9	10	11	24	3.93
YY14278		0.20	0.055	7.7	0.88	470	10	80	0.5	<2	7.5	23.5	10	14	204	3.53
YY14279		0.36	0.048	2.4	0.64	229	10	120	0.5	<2	10.0	2.9	13	14	35	4.19
YY14280		0.32	0.007	1.2	0.25	82	<10	40	<0.5	<2	13.9	2.0	9	8	22	3.04
YY14281		0.24	0.005	0.7	0.61	60	<10	110	0.5	<2	8.6	1.4	5	9	58	1.90
YY14282		0.29	0.005	0.7	0.42	59	<10	150	<0.5	<2	11.5	1.2	5	11	50	1.87
YY14283		0.38	<0.001	0.3	1.37	53	<10	140	0.7	<2	0.24	1.1	13	27	23	5.16
YY14284		0.40	0.001	0.5	1.10	28	10	80	<0.5	<2	2.03	1.0	10	18	30	3.83
YY14285		0.45	0.001	0.4	1.37	24	<10	150	0.5	<2	0.77	0.7	10	20	28	3.75
YY14286		0.34	0.001	0.3	1.01	12	<10	90	<0.5	<2	0.77	0.8	6	10	16	1.82
YY14287		0.39	0.002	0.6	1.20	32	<10	80	<0.5	<2	1.49	1.2	12	19	32	3.92
YY14288		0.26	<0.001	0.2	0.93	28	<10	170	<0.5	<2	1.58	1.2	8	12	14	3.69
YY14289		0.41	0.075	9.3	0.30	323	<10	100	<0.5	<2	10.8	12.3	8	6	80	4.18
YY14290		0.33	<0.001	0.8	0.79	50	<10	60	<0.5	<2	3.91	1.6	14	15	40	3.51





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Project: GROUNDHOG

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Sample Description	Method Analyte Units LOD	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
YY14251		<10	<1	0.06	20	0.26	180	10	0.02	31	1030	39	0.10	5	1	34
YY14252		<10	<1	0.06	20	1.50	443	15	0.01	81	1620	188	0.03	24	2	89
YY14253		<10	<1	0.06	20	2.24	394	15	0.01	70	1570	91	0.03	16	2	135
YY14254		<10	<1	0.07	20	1.95	374	14	0.01	88	1540	129	0.05	16	2	118
YY14255		<10	<1	0.05	20	2.03	305	12	0.01	61	1600	85	0.03	12	2	103
YY14256		<10	<1	0.05	20	1.45	487	10	0.01	181	1560	91	0.04	14	2	71
YY14257		<10	<1	0.04	20	0.75	247	7	0.01	45	1300	219	0.06	14	1	48
YY14258		<10	<1	0.04	10	0.08	203	7	0.02	22	940	110	0.08	7	<1	18
YY14259		<10	<1	0.03	20	4.28	1175	3	0.01	42	870	67	0.03	4	2	54
YY14260		<10	<1	0.04	10	0.35	558	1	0.02	18	1270	47	0.10	<2	1	16
YY14261		<10	<1	0.04	10	0.61	1340	2	0.02	21	1380	89	0.14	<2	1	19
YY14262		<10	<1	0.04	20	1.72	467	3	0.01	32	950	64	0.04	4	2	22
YY14263		<10	<1	0.03	10	0.17	235	1	0.02	13	720	30	0.04	<2	<1	8
YY14264		<10	<1	0.03	20	2.91	475	4	0.01	35	1250	57	0.04	5	2	100
YY14265		<10	<1	0.05	30	0.88	476	6	0.01	45	1210	68	0.05	6	3	40
YY14266		<10	<1	0.04	10	3.97	900	5	0.01	42	850	255	0.04	9	2	116
YY14267		<10	<1	0.04	20	0.31	1470	4	0.01	34	1010	219	0.05	6	2	10
YY14268		<10	<1	0.04	20	0.50	719	3	0.01	36	1080	58	0.04	4	2	13
YY14269		<10	<1	0.03	10	3.72	1890	2	0.02	22	1580	78	0.17	7	1	44
YY14270		<10	<1	0.06	30	0.85	1035	3	0.01	47	1340	49	0.03	4	3	14
YY14271		<10	1	0.06	20	2.34	780	4	0.01	34	1160	96	0.06	5	2	31
YY14272		<10	<1	0.04	10	1.67	1330	2	0.02	31	1540	55	0.10	4	1	23
YY14273		<10	<1	0.03	10	5.71	1545	2	0.02	39	940	123	0.05	7	1	59
YY14274		<10	<1	0.03	10	2.41	1240	2	0.03	32	1200	168	0.08	7	1	32
YY14275		<10	<1	0.04	10	4.92	1085	4	0.02	35	1210	239	0.05	11	1	50
YY14276		<10	<1	0.05	10	3.78	962	3	0.02	34	1480	214	0.08	12	1	39
YY14277		<10	<1	0.04	10	4.67	1075	3	0.02	37	940	145	0.05	10	2	41
YY14278		<10	<1	0.04	10	3.83	864	3	0.02	46	1510	642	0.12	46	2	58
YY14279		<10	<1	0.04	10	5.90	911	4	0.02	53	1050	319	0.05	14	2	55
YY14280		<10	<1	0.02	10	7.80	699	3	0.02	49	540	159	0.03	9	2	65
YY14281		<10	<1	0.06	10	5.05	238	7	0.02	42	680	30	0.11	8	1	58
YY14282		<10	<1	0.06	10	6.70	257	8	0.03	37	530	30	0.10	8	1	71
YY14283		<10	<1	0.04	20	0.52	1405	3	0.01	42	810	93	0.04	3	2	12
YY14284		<10	1	0.04	20	1.29	765	2	0.02	36	1400	52	0.08	3	2	30
YY14285		<10	<1	0.06	20	0.80	557	2	0.01	35	1260	36	0.05	3	2	20
YY14286		<10	<1	0.04	10	0.41	393	1	0.03	16	1290	18	0.09	2	1	16
YY14287		<10	<1	0.06	20	1.24	667	3	0.02	40	1440	52	0.05	4	3	23
YY14288		<10	<1	0.04	10	0.96	1470	2	0.03	24	1180	64	0.08	3	1	19
YY14289		<10	<1	0.02	10	6.14	1165	3	0.02	32	730	2880	0.08	39	1	103
YY14290		<10	<1	0.06	20	2.05	699	5	0.01	49	1190	94	0.03	5	2	54



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Project: GROUNDHOG

CERTIFICATE OF ANALYSIS WH18199706
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Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Ti	U	V	W
	Units LOD	ppm	%	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10
	Zn						2
YY14251		<20	0.01	<10	<10	23	<10
YY14252		<20	<0.01	<10	<10	26	<10
YY14253		<20	<0.01	<10	<10	25	<10
YY14254		<20	<0.01	<10	<10	25	<10
YY14255		<20	<0.01	<10	<10	21	<10
YY14256		<20	<0.01	<10	<10	24	<10
YY14257		<20	0.01	<10	<10	22	<10
YY14258		<20	0.01	<10	<10	17	<10
YY14259		<20	0.01	<10	<10	18	<10
YY14260		<20	0.01	<10	<10	20	<10
YY14261		<20	0.02	<10	<10	24	<10
YY14262		<20	0.01	<10	<10	24	<10
YY14263		<20	0.01	<10	<10	18	<10
YY14264		<20	0.01	<10	<10	23	<10
YY14265		<20	0.01	<10	<10	23	<10
YY14266		<20	0.01	<10	<10	21	<10
YY14267		<20	0.01	<10	<10	27	<10
YY14268		<20	0.01	<10	<10	26	<10
YY14269		<20	0.01	<10	<10	19	<10
YY14270		<20	0.01	<10	<10	32	<10
YY14271		<20	0.01	<10	<10	22	<10
YY14272		<20	0.01	<10	<10	23	<10
YY14273		<20	0.01	<10	<10	19	<10
YY14274		<20	0.01	<10	<10	19	<10
YY14275		<20	0.01	<10	<10	17	<10
YY14276		<20	0.01	<10	<10	18	<10
YY14277		<20	0.01	<10	<10	18	<10
YY14278		<20	0.01	<10	<10	21	<10
YY14279		<20	0.02	<10	<10	19	<10
YY14280		<20	0.01	<10	<10	11	<10
YY14281		<20	0.01	<10	<10	23	<10
YY14282		<20	0.01	<10	<10	24	<10
YY14283		<20	0.03	<10	<10	38	<10
YY14284		<20	0.01	<10	<10	21	<10
YY14285		<20	0.01	<10	<10	25	<10
YY14286		<20	0.01	<10	<10	17	<10
YY14287		<20	0.01	<10	<10	24	<10
YY14288		<20	0.02	<10	<10	31	<10
YY14289		<20	<0.01	<10	<10	13	<10
YY14290		<20	<0.01	<10	<10	22	<10



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Sample Description	Method Analyte Units LOD	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
YY14291		0.43	0.004	0.8	0.88	60	<10	60	<0.5	<2	1.94	1.1	14	14	28	3.69
YY14292		0.43	0.007	0.9	0.97	124	<10	90	0.5	<2	1.26	1.2	13	16	31	4.58
YY14293		0.27	0.011	2.1	0.83	181	<10	80	<0.5	<2	1.78	4.5	5	10	60	2.40
YY14294		0.22	0.007	1.3	0.52	78	10	90	<0.5	<2	6.23	2.8	8	12	46	2.53
YY14295		0.20	0.001	0.6	0.71	96	<10	170	<0.5	<2	2.27	0.9	7	9	46	2.30
YY14296		0.33	0.016	0.6	0.38	81	<10	120	<0.5	<2	8.0	0.7	7	10	42	2.73
YY14297		0.24	0.001	0.5	0.50	95	<10	170	<0.5	<2	2.97	0.9	7	12	44	3.66
YY14298		0.24	0.002	1.2	0.51	33	10	120	<0.5	<2	6.32	1.9	5	10	21	2.36
YY14299		0.22	0.009	1.0	0.51	126	10	80	<0.5	<2	4.68	2.0	8	9	24	2.49
YY14300		0.17	0.027	3.4	0.66	250	10	110	<0.5	<2	3.44	5.4	13	12	61	4.31
YY14301		0.22	0.013	0.7	0.69	73	10	110	<0.5	<2	4.75	1.5	6	12	24	2.67
YY14302		0.35	<0.001	0.5	1.15	125	<10	130	0.7	<2	1.02	0.9	10	25	25	3.37
YY14303		0.65	0.008	1.0	0.52	77	<10	90	<0.5	<2	4.15	1.2	9	10	37	2.84
YY14304		0.63	0.014	0.7	0.46	128	<10	100	<0.5	<2	9.4	0.9	7	8	47	2.40
YY14305		0.42	0.074	1.3	0.43	436	<10	180	<0.5	<2	11.8	0.6	7	7	35	4.48
YY14306		0.43	0.091	1.3	0.40	441	<10	120	<0.5	<2	13.0	0.8	8	8	29	4.70
YY14307		0.53	0.025	0.9	0.41	240	<10	80	<0.5	<2	12.9	0.7	7	6	20	3.03
YY14308		0.29	0.071	0.8	0.57	1465	<10	50	<0.5	<2	12.3	0.8	9	7	14	2.83
YY14309		0.54	0.208	2.6	0.40	684	<10	30	<0.5	<2	13.8	4.8	7	7	28	4.35
YY14310		0.44	0.004	1.6	0.27	21	<10	50	<0.5	<2	15.3	2.9	3	6	10	1.17
YY14311		0.29	0.029	9.4	0.27	121	<10	30	<0.5	<2	14.2	7.6	3	6	47	1.79
YY14312		0.40	0.003	1.0	0.74	43	<10	120	0.5	<2	2.14	0.9	10	11	32	3.23
YY14313		0.35	0.009	1.0	0.63	58	<10	70	<0.5	<2	6.15	0.9	8	12	33	2.77
YY14314		0.29	0.004	0.8	0.42	90	<10	170	<0.5	<2	1.12	0.9	4	10	27	2.89
YY14315		0.24	0.001	0.7	0.57	43	<10	110	<0.5	<2	1.48	0.6	5	10	26	2.10
YY14316		0.31	0.001	0.7	0.38	36	<10	90	<0.5	<2	0.65	0.6	9	7	47	2.84
YY14317		0.23	0.002	1.1	0.44	42	10	150	<0.5	<2	7.4	0.5	10	12	28	3.88
YY14318		0.62	0.008	0.9	0.60	101	<10	100	<0.5	<2	4.91	0.8	10	16	33	3.61
YY14319		0.50	0.006	0.8	0.94	98	<10	140	0.5	<2	0.76	0.6	8	15	29	4.22
YY14320		0.31	0.007	0.4	0.50	56	<10	80	<0.5	<2	7.5	<0.5	6	8	20	5.35
YY14321		0.19	0.013	1.9	0.51	89	10	120	<0.5	<2	8.0	3.5	6	8	30	2.97
YY14322		0.33	0.026	1.3	0.73	228	<10	140	<0.5	<2	8.3	1.9	9	14	21	3.62
YY14323		0.31	0.020	1.3	0.52	175	10	90	<0.5	<2	10.8	1.4	6	11	16	2.90
YY14324		0.34	0.010	1.0	0.51	124	10	130	<0.5	<2	12.1	2.5	5	8	16	4.91
YY14325		0.40	0.070	2.3	1.07	723	10	130	0.5	2	6.25	4.2	8	11	57	2.89
YY14326		0.42	0.010	1.3	0.54	79	<10	100	<0.5	<2	9.7	1.0	8	8	17	3.49
YY14327		0.35	0.011	1.4	0.38	76	<10	50	<0.5	<2	10.7	1.3	7	8	21	2.94
YY14328		0.45	0.012	10.5	0.47	86	<10	60	<0.5	<2	9.5	9.8	8	8	74	3.14
YY14329		0.32	0.001	0.5	0.90	26	<10	130	0.5	<2	5.05	0.6	12	13	25	3.86
YY14330		0.36	<0.001	0.4	0.60	43	<10	130	<0.5	<2	0.15	<0.5	5	10	27	2.44



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Sample Description	Method Analyte Units LOD	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
YY14291		<10	<1	0.04	20	1.40	839	3	0.02	39	840	476	0.03	5	3	19
YY14292		<10	<1	0.05	20	0.83	864	4	0.01	41	1110	125	0.05	7	2	17
YY14293		<10	<1	0.03	10	0.56	327	2	0.03	22	1380	167	0.11	16	1	24
YY14294		<10	<1	0.05	10	3.55	443	7	0.02	50	910	149	0.09	11	2	43
YY14295		<10	<1	0.06	10	1.10	439	7	0.03	39	1130	39	0.12	11	1	34
YY14296		<10	<1	0.06	10	4.61	473	4	0.02	37	420	30	0.10	12	1	41
YY14297		<10	<1	0.06	20	1.46	677	12	0.02	46	910	34	0.11	12	1	32
YY14298		<10	<1	0.04	10	3.60	546	2	0.03	21	710	191	0.07	6	1	35
YY14299		<10	<1	0.04	10	2.08	675	3	0.03	28	1280	134	0.11	7	1	36
YY14300		<10	1	0.05	10	1.29	1005	3	0.03	36	1970	551	0.17	45	1	31
YY14301		<10	<1	0.04	10	2.44	630	2	0.03	24	1050	91	0.08	6	1	37
YY14302		<10	<1	0.04	20	0.54	1045	2	0.02	41	1180	115	0.07	4	2	20
YY14303		<10	<1	0.03	20	2.51	508	4	<0.01	41	880	107	0.02	7	2	32
YY14304		<10	1	0.03	10	5.53	477	4	0.01	33	750	68	0.03	10	2	68
YY14305		<10	<1	0.05	10	6.58	1030	4	0.01	31	870	56	0.07	26	2	68
YY14306		<10	1	0.04	10	7.24	1070	4	0.01	32	840	49	0.04	17	2	73
YY14307		<10	<1	0.03	10	7.26	636	2	0.02	26	940	85	0.02	11	1	80
YY14308		<10	1	0.03	10	6.84	728	3	0.01	26	1560	64	0.01	12	2	73
YY14309		<10	<1	0.01	10	7.58	557	3	0.01	36	330	251	<0.01	22	2	80
YY14310		<10	<1	0.02	10	8.88	610	1	0.01	8	480	290	0.03	4	1	73
YY14311		<10	<1	0.02	10	8.24	657	1	0.01	11	300	1380	0.07	17	1	69
YY14312		<10	<1	0.04	10	1.06	572	5	0.01	44	1070	132	0.06	6	1	25
YY14313		<10	<1	0.05	10	3.80	558	5	0.01	37	860	87	0.03	5	2	43
YY14314		<10	<1	0.20	20	0.52	217	20	0.01	30	930	65	0.40	15	2	43
YY14315		<10	<1	0.05	20	0.86	226	9	0.01	26	670	51	0.05	9	1	23
YY14316		<10	<1	0.06	30	0.30	279	10	<0.01	44	1150	43	0.08	6	2	80
YY14317		<10	<1	0.02	10	3.46	1740	3	0.02	21	1490	38	0.16	5	1	57
YY14318		<10	<1	0.05	20	3.03	802	5	<0.01	42	990	94	0.03	7	2	37
YY14319		<10	<1	0.04	20	0.49	770	4	0.01	31	920	80	0.03	5	2	15
YY14320		<10	1	0.02	10	4.16	1660	3	0.02	22	750	35	0.02	3	2	27
YY14321		<10	<1	0.04	10	4.19	1170	3	0.01	24	1340	346	0.13	13	1	33
YY14322		<10	1	0.04	10	4.70	1090	2	0.01	28	1120	193	0.06	5	1	48
YY14323		<10	1	0.03	10	6.10	924	2	0.01	22	1020	188	0.06	7	1	56
YY14324		<10	<1	0.02	10	6.86	2150	2	0.01	21	970	211	0.04	4	1	58
YY14325		<10	1	0.05	10	3.36	590	2	0.01	37	1300	607	0.11	16	1	43
YY14326		<10	1	0.03	10	5.50	1065	2	0.01	22	1280	268	0.05	5	1	48
YY14327		<10	<1	0.03	10	6.19	778	3	0.01	29	750	211	0.02	6	1	57
YY14328		<10	<1	0.04	10	5.59	778	4	0.01	36	650	1110	0.06	23	2	52
YY14329		<10	1	0.03	20	3.01	1250	3	0.01	33	1190	80	0.09	5	2	34
YY14330		<10	<1	0.09	20	0.21	213	13	0.01	21	930	24	0.14	4	1	31



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Sample Description	Method Analyte Units LOD	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
YY14291		<20	0.01	<10	<10	21	<10	162
YY14292		<20	0.01	<10	<10	23	<10	248
YY14293		<20	0.02	<10	<10	18	<10	566
YY14294		<20	0.01	<10	<10	21	<10	404
YY14295		<20	0.01	<10	<10	25	<10	83
YY14296		<20	<0.01	<10	<10	16	<10	43
YY14297		<20	0.01	<10	<10	27	<10	56
YY14298		<20	0.02	<10	<10	15	<10	263
YY14299		<20	0.01	<10	<10	15	<10	253
YY14300		<20	0.01	<10	<10	19	<10	757
YY14301		<20	0.01	<10	<10	19	<10	244
YY14302		<20	0.01	<10	<10	28	<10	209
YY14303		<20	0.01	<10	<10	20	<10	238
YY14304		<20	0.01	<10	<10	17	<10	156
YY14305		<20	0.01	<10	<10	20	<10	105
YY14306		<20	0.01	<10	<10	19	<10	101
YY14307		<20	0.01	10	<10	18	<10	131
YY14308		<20	0.01	<10	<10	19	<10	120
YY14309		<20	<0.01	<10	<10	12	<10	848
YY14310		<20	0.01	<10	<10	13	<10	453
YY14311		<20	0.01	<10	<10	13	<10	1780
YY14312		<20	0.01	<10	<10	32	<10	280
YY14313		<20	0.01	<10	<10	28	<10	212
YY14314		<20	0.01	<10	<10	34	<10	146
YY14315		<20	0.01	<10	<10	27	<10	134
YY14316		<20	<0.01	<10	<10	20	<10	87
YY14317		<20	<0.01	<10	<10	21	<10	67
YY14318		<20	0.01	<10	<10	24	<10	154
YY14319		<20	0.01	<10	<10	31	<10	174
YY14320		<20	0.02	<10	<10	22	<10	75
YY14321		<20	0.01	<10	<10	15	<10	519
YY14322		<20	0.01	<10	<10	24	<10	255
YY14323		<20	0.01	<10	<10	19	<10	235
YY14324		<20	0.01	<10	<10	17	<10	331
YY14325		<20	0.01	<10	<10	26	<10	654
YY14326		<20	0.01	<10	<10	18	<10	202
YY14327		<20	0.01	<10	<10	19	<10	278
YY14328		<20	0.01	<10	<10	22	<10	1760
YY14329		<20	0.01	<10	<10	25	<10	142
YY14330		<20	0.01	<10	<10	33	<10	59



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Sample Description	Method Analyte Units LOD	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
YY14331		0.38	0.002	0.6	0.23	103	<10	230	<0.5	<2	0.06	<0.5	2	11	30	2.69
YY14332		0.57	0.002	0.6	0.35	48	<10	80	<0.5	<2	0.26	0.5	5	7	19	1.80
YY14333		0.39	0.005	0.9	0.56	65	<10	110	<0.5	<2	0.36	0.5	4	10	22	2.29
YY14334		0.48	0.011	1.1	0.74	66	<10	140	<0.5	<2	0.16	0.7	6	12	39	2.78
YY14335		0.50	0.064	0.6	0.40	300	<10	80	<0.5	<2	9.5	0.7	6	6	18	3.21
YY14336		0.45	0.368	1.6	1.00	2240	<10	100	0.5	<2	9.9	0.8	14	9	62	4.39
YY14337		0.36	0.123	4.6	0.69	832	<10	300	<0.5	<2	11.2	0.8	7	9	90	4.10
YY14338		0.43	0.021	0.7	0.27	118	<10	70	<0.5	<2	14.4	0.7	4	4	22	2.08
YY14339		0.42	0.010	0.8	0.36	133	<10	110	<0.5	<2	11.2	0.7	9	6	50	2.87
YY14340		0.62	0.007	1.3	0.32	96	<10	110	<0.5	<2	1.31	<0.5	7	5	63	2.19
YY14341		0.35	0.010	1.4	0.31	109	<10	110	<0.5	<2	8.7	1.0	8	7	28	3.18
YY14342		0.36	0.008	1.2	0.51	91	<10	120	<0.5	<2	4.80	1.4	8	9	39	3.18
YY14343		0.38	0.008	0.9	0.30	71	<10	110	<0.5	<2	8.2	0.6	6	7	36	3.39
YY14344		0.46	0.001	0.3	0.86	22	<10	100	<0.5	<2	7.0	0.5	8	15	17	2.67
YY14345		0.63	0.001	<0.2	0.72	15	<10	80	<0.5	<2	5.71	0.5	7	16	19	1.89
YY14346		0.38	0.006	0.5	0.58	34	<10	100	<0.5	<2	5.00	0.9	11	9	24	2.27
YY14347		0.33	0.008	0.4	0.91	21	<10	60	<0.5	<2	8.3	<0.5	11	14	24	2.51
YY14348		0.45	0.004	0.3	1.24	25	<10	80	0.5	<2	3.67	0.5	14	18	29	3.47
YY14349		0.33	0.006	0.2	0.73	22	<10	100	<0.5	<2	5.02	1.4	4	11	14	2.20
YY14350		0.43	0.007	0.3	0.58	22	<10	80	<0.5	<2	8.0	1.4	4	10	12	2.13
YY14351		0.45	0.008	0.5	0.48	27	<10	110	<0.5	<2	12.2	1.8	4	9	13	2.47
YY14352		0.34	0.012	0.5	0.59	30	<10	130	<0.5	<2	10.7	2.0	5	12	16	2.64
YY14353		0.32	0.002	0.4	0.68	31	<10	240	<0.5	<2	4.40	3.0	6	10	15	3.30
YY14354		0.28	0.006	0.5	0.43	19	10	170	<0.5	<2	10.3	8.0	5	10	17	3.34
YY14355		0.34	0.008	0.2	0.28	46	<10	110	<0.5	<2	15.1	<0.5	1	5	8	2.76
YY14356		0.49	0.038	0.4	0.22	138	<10	70	<0.5	2	16.2	<0.5	4	5	10	4.09
YY14357		0.52	0.017	0.9	0.30	45	<10	50	<0.5	2	14.3	0.7	5	7	11	2.79
YY14358		0.26	0.003	0.2	0.66	12	<10	50	<0.5	<2	1.87	0.5	3	5	15	1.16
YY14359		0.33	0.027	0.5	0.30	55	<10	70	<0.5	<2	9.1	0.5	3	8	14	1.50
YY14360		0.38	0.001	<0.2	0.26	13	<10	50	<0.5	<2	13.1	<0.5	1	4	8	1.27
YY14361		0.38	0.574	0.3	0.26	34	<10	40	<0.5	<2	11.8	<0.5	3	6	7	1.93
YY14362		0.41	0.004	0.2	0.15	31	<10	20	<0.5	<2	16.2	<0.5	2	4	9	1.33
YY14363		0.38	0.003	0.2	0.13	27	<10	20	<0.5	2	17.0	<0.5	2	4	5	1.19
YY14364		0.51	0.004	0.3	0.22	15	<10	60	<0.5	<2	16.0	<0.5	3	7	8	1.30
YY14365		0.58	0.005	0.2	0.17	16	<10	80	<0.5	<2	17.0	<0.5	2	5	5	1.21
YY14366		0.52	0.001	0.8	0.30	98	<10	450	<0.5	<2	5.05	<0.5	8	7	16	3.24
YY14367		0.57	0.004	0.4	0.44	54	<10	140	<0.5	<2	9.2	<0.5	17	7	16	3.73
YY14368		0.35	0.005	0.4	0.45	39	<10	130	<0.5	<2	4.46	0.7	7	9	22	2.16
YY14369		0.28	0.002	0.6	0.32	42	10	90	<0.5	<2	5.79	1.3	10	7	21	3.09
YY14370		0.29	<0.001	<0.2	0.56	11	<10	70	<0.5	<2	2.48	0.5	3	6	11	1.31



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Sample Description	Method Analyte Units LOD	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
YY14331		<10	<1	0.20	30	0.05	63	28	<0.01	28	880	30	0.44	8	1	77
YY14332		<10	<1	0.05	20	0.20	237	9	<0.01	23	670	45	0.06	9	1	22
YY14333		<10	<1	0.07	20	0.24	181	10	0.01	28	920	73	0.08	8	2	27
YY14334		<10	<1	0.08	10	0.20	268	11	0.01	36	1000	336	0.10	10	2	45
YY14335		<10	1	0.03	10	5.43	697	2	0.01	23	480	52	0.03	12	1	46
YY14336		<10	<1	0.06	10	5.29	794	4	0.01	42	2350	39	0.07	34	2	69
YY14337		<10	<1	0.07	10	6.28	774	5	0.01	34	990	58	0.12	76	2	85
YY14338		<10	<1	0.02	10	8.26	628	2	0.01	26	370	74	0.01	10	1	96
YY14339		<10	<1	0.03	20	6.43	831	10	0.01	57	790	40	0.03	12	2	145
YY14340		<10	<1	0.04	30	0.71	275	29	<0.01	60	550	75	0.04	25	1	39
YY14341		<10	<1	0.05	20	4.91	601	8	0.01	35	590	172	0.06	11	1	58
YY14342		<10	1	0.04	20	2.68	838	5	0.01	38	1020	180	0.07	11	1	38
YY14343		<10	<1	0.03	10	4.55	694	7	0.01	34	610	126	0.04	7	1	70
YY14344		<10	<1	0.03	20	4.26	962	2	0.01	28	750	22	0.02	3	2	51
YY14345		<10	<1	0.03	20	3.52	335	1	0.02	27	740	27	0.03	4	1	56
YY14346		<10	<1	0.04	10	2.88	562	4	0.01	53	910	54	0.05	5	1	51
YY14347		<10	<1	0.03	20	5.27	429	2	0.01	38	550	47	0.01	4	2	70
YY14348		<10	1	0.04	30	2.51	484	2	0.01	52	660	34	0.03	2	2	41
YY14349		<10	<1	0.04	10	2.76	951	1	0.02	15	660	76	0.06	2	1	40
YY14350		<10	<1	0.03	10	4.67	826	1	0.02	15	490	84	0.03	3	1	50
YY14351		<10	1	0.02	10	7.00	1225	1	0.01	17	540	104	0.03	2	1	70
YY14352		<10	1	0.03	10	6.15	1145	2	0.01	20	670	140	0.04	2	1	64
YY14353		<10	<1	0.03	10	2.29	2340	2	0.01	26	770	57	0.09	4	1	33
YY14354		<10	1	0.03	10	5.90	1280	2	0.01	17	500	167	0.06	4	1	108
YY14355		<10	<1	0.01	10	8.54	2380	1	0.01	10	220	17	<0.01	2	1	120
YY14356		<10	1	0.02	10	8.89	2120	2	0.01	16	190	16	<0.01	4	1	62
YY14357		<10	<1	0.02	10	8.23	1195	1	0.01	16	320	282	0.01	4	1	62
YY14358		<10	<1	0.03	10	0.74	469	<1	0.04	7	490	73	0.08	3	<1	16
YY14359		<10	<1	0.06	10	5.28	450	7	0.01	23	400	72	0.09	5	1	42
YY14360		<10	<1	0.01	10	7.46	791	<1	0.02	5	320	52	0.02	<2	1	53
YY14361		<10	<1	0.04	10	6.76	814	1	0.01	12	280	73	0.03	3	1	48
YY14362		<10	<1	0.03	10	9.39	443	1	0.01	13	140	43	0.03	3	1	59
YY14363		<10	<1	0.01	10	9.87	638	<1	0.01	8	180	43	0.02	5	1	69
YY14364		<10	<1	0.02	10	9.27	736	1	0.01	13	260	34	<0.01	<2	1	91
YY14365		<10	<1	0.01	10	9.77	1225	1	0.01	11	220	19	<0.01	<2	1	105
YY14366		<10	<1	0.20	10	3.08	603	15	0.01	32	930	95	0.39	18	1	101
YY14367		<10	<1	0.06	10	5.41	1135	7	0.01	69	1120	36	0.10	13	2	75
YY14368		<10	<1	0.04	10	2.55	708	4	0.01	40	1010	45	0.06	6	1	38
YY14369		<10	<1	0.04	10	3.14	642	5	0.01	52	1270	174	0.08	9	1	37
YY14370		<10	<1	0.04	10	1.10	510	1	0.03	11	620	24	0.07	2	1	22



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Project: GROUNDHOG

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Sample Description	Method Analyte Units LOD	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
YY14331		<20	0.01	<10	<10	46	<10	54
YY14332		<20	0.01	<10	<10	22	<10	96
YY14333		<20	0.01	<10	<10	27	<10	184
YY14334		<20	0.02	<10	<10	35	<10	254
YY14335		<20	0.01	<10	<10	15	<10	110
YY14336		<20	<0.01	<10	<10	25	<10	74
YY14337		<20	0.01	<10	<10	28	<10	66
YY14338		<20	0.01	<10	<10	11	<10	125
YY14339		<20	0.01	<10	<10	20	<10	114
YY14340		<20	<0.01	<10	<10	11	<10	95
YY14341		<20	<0.01	<10	<10	17	<10	191
YY14342		<20	0.01	<10	<10	21	<10	234
YY14343		<20	0.01	<10	<10	21	<10	106
YY14344		<20	0.02	<10	<10	23	<10	101
YY14345		<20	0.01	<10	<10	18	<10	109
YY14346		<20	0.01	<10	<10	15	<10	241
YY14347		<20	0.01	<10	<10	14	<10	169
YY14348		<20	0.01	<10	<10	20	<10	173
YY14349		<20	0.02	<10	<10	22	<10	306
YY14350		<20	0.03	<10	<10	21	<10	319
YY14351		<20	0.01	<10	<10	19	<10	417
YY14352		<20	0.02	<10	<10	22	<10	456
YY14353		<20	0.02	<10	<10	26	<10	602
YY14354		<20	0.02	<10	<10	20	<10	2370
YY14355		<20	0.01	<10	<10	14	<10	49
YY14356		<20	0.01	<10	<10	9	<10	34
YY14357		<20	0.01	<10	<10	14	<10	129
YY14358		<20	0.02	<10	<10	18	<10	116
YY14359		<20	0.01	<10	<10	19	<10	75
YY14360		<20	0.01	10	<10	13	<10	62
YY14361		<20	0.01	<10	<10	10	<10	68
YY14362		<20	<0.01	<10	<10	7	<10	42
YY14363		<20	0.01	<10	<10	9	<10	48
YY14364		<20	0.01	<10	<10	11	<10	132
YY14365		<20	0.01	<10	<10	9	<10	116
YY14366		<20	0.01	<10	<10	30	<10	87
YY14367		<20	0.01	<10	<10	21	<10	241
YY14368		<20	0.01	<10	<10	18	<10	176
YY14369		<20	<0.01	<10	<10	15	<10	507
YY14370		<20	0.02	<10	<10	16	<10	93





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Sample Description	Method Analyte Units LOD	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
YY14371		0.41	0.004	0.5	0.34	35	<10	70	<0.5	<2	10.0	1.3	7	8	14	3.22
YY14372		0.28	0.002	0.3	0.89	51	<10	140	0.6	<2	2.08	1.5	9	16	15	4.78
YY14373		0.29	0.008	0.4	0.71	47	<10	150	0.5	<2	2.28	1.0	6	12	20	4.99
YY14374		0.41	0.009	<0.2	0.31	42	<10	30	<0.5	<2	12.3	0.5	4	9	11	1.44
YY14375		0.25	0.002	<0.2	0.49	8	<10	30	<0.5	<2	1.30	0.5	2	5	7	1.09
YY14376		0.45	0.004	<0.2	0.19	12	<10	20	<0.5	<2	14.1	<0.5	2	5	5	1.00
YY14377		0.52	0.004	<0.2	0.54	28	<10	50	<0.5	<2	8.6	0.6	5	13	9	2.31
YY14378		0.37	0.007	<0.2	0.48	20	<10	50	<0.5	3	10.7	0.7	5	11	9	2.41
YY14379		0.32	0.007	<0.2	0.53	21	<10	50	<0.5	<2	8.3	0.6	4	10	11	1.97
YY14380		0.58	0.009	<0.2	0.18	11	<10	20	<0.5	<2	12.9	<0.5	1	4	5	1.04
YY14381		0.21	0.032	<0.2	0.58	51	10	60	<0.5	2	6.52	<0.5	3	8	12	1.45
YY14382		0.66	0.200	0.4	0.23	221	<10	40	<0.5	<2	11.9	0.5	7	8	8	1.41
YY14383		0.28	0.008	<0.2	0.25	27	<10	50	<0.5	<2	13.1	<0.5	2	6	5	1.12
YY14384		0.38	0.021	<0.2	0.27	55	<10	40	<0.5	2	12.1	<0.5	4	8	6	1.47
YY14385		0.43	0.007	0.3	0.35	49	<10	80	<0.5	<2	5.39	0.5	9	9	15	1.79
YY14386		0.42	0.005	2.5	0.09	44	<10	90	<0.5	<2	14.4	3.1	6	4	36	2.47
YY14387		0.65	0.006	3.1	0.19	40	<10	120	<0.5	2	12.9	2.3	5	5	48	2.21
YY14388		0.44	0.014	4.2	0.14	72	<10	130	<0.5	<2	7.8	10.0	6	5	53	5.33
YY14389		0.31	0.007	3.5	0.16	42	<10	110	<0.5	<2	13.9	10.1	4	6	48	3.87
YY14390		0.39	0.012	0.7	0.20	127	<10	130	<0.5	2	5.32	1.4	7	5	79	3.40
YY14391		0.41	0.007	1.1	0.31	97	<10	130	<0.5	2	4.02	1.3	7	7	37	3.12
YY14392		0.47	0.009	0.5	0.70	137	<10	200	<0.5	<2	0.46	1.4	8	15	43	3.62
YY14393		0.36	0.011	1.2	0.35	98	<10	110	<0.5	<2	12.1	4.9	6	7	24	3.54
YY14394		0.28	0.021	0.6	0.39	50	<10	100	<0.5	<2	10.2	1.4	3	7	14	2.26
YY14395		0.55	0.014	0.4	0.33	36	<10	80	<0.5	<2	12.0	1.2	4	8	10	1.76
YY14396		0.53	0.016	0.4	0.45	98	<10	110	<0.5	<2	6.12	0.9	3	9	17	2.04
YY14397		0.39	0.021	0.6	0.26	129	10	100	<0.5	<2	1.85	0.7	3	8	23	1.61
YY14398		0.38	0.028	0.7	0.31	204	<10	100	<0.5	<2	3.30	0.9	4	10	33	2.62
YY14399		0.56	0.146	0.6	0.43	340	10	40	<0.5	<2	10.9	2.9	9	10	23	1.90
YY14400		0.48	0.108	0.8	0.20	46	<10	20	<0.5	<2	14.1	2.0	2	4	9	1.00
YY14401		0.36	0.121	1.1	0.11	33	<10	10	<0.5	<2	16.2	1.1	2	4	8	0.91
YY14402		0.45	0.226	<0.2	0.10	34	<10	20	<0.5	<2	16.7	0.5	2	4	4	0.84
YY14403		0.46	0.008	<0.2	0.15	30	<10	20	<0.5	<2	14.7	0.7	3	4	5	1.01
YY14404		0.37	0.008	<0.2	0.23	77	<10	20	<0.5	<2	14.4	1.5	6	5	18	1.71
YY14405		0.44	0.014	<0.2	0.37	41	<10	50	<0.5	<2	11.5	1.0	4	9	17	1.51
YY14406		0.31	0.024	1.0	0.66	158	10	220	0.5	<2	4.90	1.3	11	12	70	3.96
YY14407		0.36	0.021	0.2	0.38	106	<10	40	<0.5	<2	6.47	0.6	8	10	19	1.75
YY14408		0.24	0.054	<0.2	0.36	249	10	50	<0.5	<2	5.16	0.5	10	6	10	2.40
YY14409		0.28	0.033	0.2	0.24	96	<10	30	<0.5	<2	4.96	<0.5	6	7	6	1.53
YY14410		0.29	0.080	0.3	0.20	188	10	40	<0.5	<2	14.1	0.6	7	6	11	2.61



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Sample Description	Method Analyte Units LOD	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
YY14371		<10	<1	0.03	10	5.84	813	2	0.01	32	330	92	0.03	6	2	62
YY14372		<10	<1	0.03	20	1.00	2830	2	0.01	25	1280	159	0.09	5	1	15
YY14373		<10	<1	0.04	20	1.27	2320	2	0.02	22	940	134	0.05	4	2	17
YY14374		<10	<1	0.02	10	7.36	466	1	0.02	14	410	44	0.02	<2	1	55
YY14375		<10	<1	0.02	10	0.66	489	1	0.02	5	410	21	0.04	<2	1	10
YY14376		<10	<1	0.01	10	8.42	384	<1	0.02	8	200	17	0.02	<2	1	64
YY14377		<10	<1	0.02	10	5.23	987	1	0.02	16	520	58	0.03	<2	1	37
YY14378		<10	<1	0.02	10	6.41	1010	1	0.02	15	450	56	0.02	<2	2	44
YY14379		<10	<1	0.03	10	5.01	857	1	0.02	12	540	58	0.04	<2	1	36
YY14380		<10	<1	0.01	20	7.69	460	1	0.02	5	240	18	0.01	<2	1	51
YY14381		<10	<1	0.03	10	3.85	457	1	0.03	12	700	27	0.07	<2	1	32
YY14382		<10	<1	0.02	10	7.07	747	1	0.01	23	360	31	0.02	7	2	55
YY14383		<10	<1	0.02	10	7.71	913	<1	0.02	8	470	18	0.04	<2	<1	51
YY14384		<10	<1	0.02	10	7.22	1130	1	0.01	11	340	38	0.03	2	1	50
YY14385		<10	<1	0.04	20	3.24	669	4	0.01	26	600	96	0.05	8	1	28
YY14386		<10	<1	0.02	10	8.43	1005	5	0.02	28	370	238	0.04	18	1	194
YY14387		<10	<1	0.02	10	7.55	1100	4	0.02	18	460	325	0.04	25	1	167
YY14388		<10	<1	0.06	10	4.53	920	16	0.01	36	630	254	0.15	26	1	172
YY14389		<10	<1	0.02	10	8.27	962	6	0.02	18	340	243	0.07	23	1	309
YY14390		<10	<1	0.03	10	3.08	553	12	0.01	53	1010	53	0.04	11	2	111
YY14391		<10	<1	0.04	10	2.17	556	11	0.01	46	1070	93	0.05	10	1	77
YY14392		<10	<1	0.05	10	0.23	693	9	0.01	46	1090	161	0.07	10	2	24
YY14393		<10	<1	0.02	10	7.03	1280	2	0.02	50	460	289	0.04	7	1	89
YY14394		<10	<1	0.02	10	5.93	811	2	0.02	15	550	148	0.04	<2	1	56
YY14395		<10	<1	0.02	10	7.03	652	1	0.02	16	450	149	0.02	<2	1	74
YY14396		<10	<1	0.04	10	3.58	473	7	0.02	20	760	70	0.08	4	1	42
YY14397		<10	<1	0.07	10	0.60	195	14	0.01	17	670	56	0.16	6	1	18
YY14398		<10	<1	0.07	10	1.88	375	25	0.01	35	580	64	0.12	8	2	29
YY14399		<10	<1	0.05	10	6.44	441	1	0.02	18	650	128	0.08	8	2	55
YY14400		<10	<1	0.01	10	8.27	362	1	0.02	7	350	265	0.04	3	<1	56
YY14401		<10	<1	0.01	10	9.69	348	<1	0.02	8	270	240	0.02	4	<1	62
YY14402		<10	<1	0.01	10	9.93	352	1	0.02	7	220	41	0.03	<2	<1	63
YY14403		<10	<1	0.01	10	8.76	418	1	0.02	19	260	26	0.03	<2	<1	52
YY14404		<10	<1	0.01	10	8.62	403	2	0.02	60	250	22	0.02	13	<1	43
YY14405		<10	<1	0.02	10	6.81	572	2	0.02	21	470	24	0.05	<2	1	47
YY14406		<10	<1	0.05	10	2.61	694	10	0.01	74	1290	106	0.11	12	2	38
YY14407		<10	<1	0.03	10	3.89	437	2	0.01	29	790	35	0.03	6	2	41
YY14408		<10	<1	0.05	10	2.58	741	1	0.01	15	1630	35	0.09	3	1	36
YY14409		<10	<1	0.03	10	2.87	522	2	0.01	14	690	32	0.03	4	1	29
YY14410		<10	<1	0.03	10	7.90	2080	2	0.02	14	1080	32	0.03	9	2	79



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Sample Description	Method Analyte Units LOD	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
YY14371		<20	0.01	<10	<10	15	<10	353
YY14372		<20	0.02	<10	<10	31	<10	463
YY14373		<20	0.02	<10	<10	29	<10	222
YY14374		<20	0.02	<10	<10	15	<10	72
YY14375		<20	0.02	<10	<10	14	<10	64
YY14376		<20	0.01	<10	<10	10	<10	23
YY14377		<20	0.02	<10	<10	21	<10	75
YY14378		<20	0.02	<10	<10	20	<10	81
YY14379		<20	0.02	<10	<10	20	<10	84
YY14380		<20	0.01	<10	<10	8	<10	34
YY14381		<20	0.01	<10	<10	13	<10	113
YY14382		<20	0.01	<10	<10	16	<10	75
YY14383		<20	0.01	<10	<10	10	<10	50
YY14384		<20	0.01	<10	<10	12	<10	52
YY14385		<20	0.01	<10	<10	17	<10	118
YY14386		<20	<0.01	<10	<10	13	<10	785
YY14387		<20	0.01	<10	<10	14	<10	732
YY14388		<20	<0.01	<10	<10	15	<10	2810
YY14389		<20	0.01	<10	<10	14	<10	3320
YY14390		<20	<0.01	10	<10	16	<10	473
YY14391		<20	0.01	<10	<10	17	<10	420
YY14392		<20	0.01	<10	<10	31	<10	427
YY14393		<20	0.01	<10	<10	17	<10	968
YY14394		<20	0.01	<10	<10	15	<10	213
YY14395		<20	0.01	<10	<10	16	<10	182
YY14396		<20	0.01	<10	<10	21	<10	182
YY14397		<20	<0.01	<10	<10	22	<10	116
YY14398		<20	0.01	<10	<10	28	<10	162
YY14399		<20	0.01	<10	<10	19	<10	416
YY14400		<20	0.01	<10	<10	10	<10	295
YY14401		<20	<0.01	<10	<10	7	<10	161
YY14402		<20	<0.01	<10	<10	6	<10	59
YY14403		<20	<0.01	<10	<10	7	<10	83
YY14404		<20	<0.01	<10	<10	7	<10	183
YY14405		<20	0.01	<10	<10	14	<10	81
YY14406		<20	0.01	<10	<10	32	<10	160
YY14407		<20	0.01	<10	<10	16	<10	82
YY14408		<20	<0.01	<10	<10	14	<10	67
YY14409		<20	0.01	<10	<10	10	<10	42
YY14410		<20	<0.01	<10	<10	11	<10	69



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Sample Description	Method Analyte Units LOD	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
YY14411		0.42	0.064	0.6	0.12	221	<10	20	<0.5	<2	5.24	0.8	9	5	8	2.37
YY14412		0.50	0.005	0.3	0.19	30	<10	120	<0.5	<2	0.05	<0.5	2	6	15	1.60
YY14413		0.49	0.003	0.6	0.28	50	<10	170	<0.5	<2	0.04	<0.5	4	7	32	2.49
YY14414		0.43	0.003	0.6	0.35	78	<10	110	<0.5	<2	0.02	<0.5	3	8	42	2.17
YY14415		0.49	0.002	0.8	0.33	61	<10	150	<0.5	<2	0.04	<0.5	5	10	35	2.64
YY14416		0.32	0.004	0.8	0.35	69	<10	150	<0.5	<2	0.04	<0.5	5	9	38	2.79
YY14417		0.54	0.002	0.3	0.39	53	<10	110	<0.5	<2	0.02	<0.5	5	9	28	2.58
YY14418		0.34	0.020	2.1	0.57	202	<10	160	<0.5	<2	2.22	2.6	12	14	51	4.22
YY14419		0.19	0.004	0.4	0.31	30	<10	80	<0.5	<2	4.83	0.8	5	8	28	2.15
YY14420		0.33	0.004	0.7	0.27	33	<10	90	<0.5	<2	6.74	<0.5	4	8	20	2.09
YY14421		0.30	0.004	0.5	0.31	36	<10	50	<0.5	<2	12.9	0.5	8	9	15	2.40
YY14422		0.28	0.002	0.5	0.88	84	10	110	<0.5	<2	4.95	0.7	12	10	19	3.46
YY14423		0.31	<0.001	0.3	0.64	53	10	40	<0.5	<2	12.3	<0.5	10	8	13	2.33
YY14424		0.22	0.004	0.2	0.29	55	<10	30	<0.5	<2	13.5	<0.5	9	5	9	1.73
YY14425		0.30	0.008	<0.2	0.40	63	<10	30	<0.5	<2	15.8	0.5	7	9	14	1.60
YY14426		0.42	0.024	<0.2	0.32	43	<10	30	<0.5	<2	14.3	0.8	9	7	13	1.79
YY14427		0.53	0.002	<0.2	0.19	20	<10	20	<0.5	<2	17.4	0.7	7	4	13	1.58
YY14428		0.23	0.003	0.6	0.34	66	<10	70	<0.5	<2	1.55	0.5	4	11	36	2.00
YY14429		0.50	0.016	0.4	0.34	92	<10	130	<0.5	<2	0.24	<0.5	3	9	16	1.37
YY14430		0.45	0.004	0.4	0.17	44	<10	80	<0.5	<2	0.09	<0.5	<1	5	6	0.65
YY14431		0.28	0.011	0.8	0.27	58	<10	110	<0.5	<2	0.22	0.5	4	8	41	1.88
YY14432		0.50	0.006	0.6	0.16	80	<10	80	<0.5	<2	0.28	<0.5	2	6	15	1.32
YY14433		0.34	0.027	1.2	0.17	96	<10	110	<0.5	<2	1.41	1.4	7	5	48	2.14
YY14434		0.51	0.004	0.6	0.36	73	<10	190	0.5	<2	0.08	<0.5	6	9	110	2.67
YY14435		0.29	0.004	0.7	0.27	82	<10	120	<0.5	<2	0.09	<0.5	5	10	98	2.70
YY14436		0.37	0.003	0.7	0.14	119	<10	170	<0.5	<2	0.02	<0.5	1	8	34	2.30
YY14437		0.38	0.005	1.3	0.19	150	<10	110	<0.5	<2	0.02	<0.5	3	8	55	2.19
YY14438		0.26	0.031	0.5	0.32	75	<10	90	<0.5	<2	0.04	<0.5	2	7	33	1.82
YY14439		0.28	0.011	2.0	0.21	105	<10	70	<0.5	<2	0.16	0.8	2	5	33	1.62
YY14440		0.53	0.034	9.5	0.73	220	<10	80	0.6	<2	1.98	6.7	6	8	86	4.04
YY14441		0.31	0.004	0.5	0.32	99	<10	100	<0.5	<2	0.02	<0.5	3	11	26	3.32
YY14442		0.34	<0.001	0.2	0.20	74	<10	80	<0.5	<2	0.02	<0.5	2	6	18	1.96
YY14443		0.43	0.007	0.5	0.28	64	<10	100	<0.5	<2	0.02	<0.5	4	6	34	2.71
YY14444		0.49	0.001	0.4	0.36	50	<10	80	<0.5	<2	0.02	<0.5	3	7	21	2.11
YY14445		0.26	<0.001	<0.2	0.74	94	<10	90	<0.5	<2	0.07	<0.5	5	17	24	2.87
YY14446		0.63	0.011	0.7	0.81	113	<10	100	<0.5	<2	0.07	0.7	10	15	41	3.54
YY14447		0.50	0.004	0.3	0.89	94	<10	70	<0.5	<2	0.11	0.6	7	17	25	2.54
YY14448		0.30	<0.001	0.2	0.54	15	<10	40	<0.5	<2	0.94	<0.5	2	4	12	0.77
YY14449		0.28	0.006	0.8	0.30	80	<10	40	<0.5	<2	11.6	1.1	4	8	20	2.08
YY14450		0.31	<0.001	0.4	0.17	24	<10	30	<0.5	<2	15.8	0.6	3	5	8	1.31



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Sample Description	Method Analyte Units LOD	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
YY14411		<10	<1	0.03	10	2.94	1095	2	0.01	21	790	100	0.07	7	1	33
YY14412		<10	<1	0.06	20	0.03	54	17	0.01	12	580	28	0.08	10	1	16
YY14413		<10	<1	0.09	20	0.03	87	19	0.01	30	1040	42	0.16	8	1	30
YY14414		<10	1	0.06	30	0.02	76	29	0.01	27	1200	38	0.07	10	2	23
YY14415		<10	1	0.10	30	0.04	92	22	0.01	33	1150	50	0.16	8	1	23
YY14416		<10	<1	0.09	30	0.04	96	23	0.01	36	1170	57	0.14	10	1	23
YY14417		<10	1	0.05	20	0.05	245	14	0.01	33	950	35	0.07	4	<1	22
YY14418		<10	1	0.03	10	1.13	1150	13	0.01	115	1120	302	0.06	15	2	25
YY14419		<10	<1	0.04	10	2.39	328	6	0.01	34	1210	27	0.12	2	1	26
YY14420		<10	1	0.05	10	4.01	341	15	0.02	20	520	53	0.09	8	1	34
YY14421		<10	<1	0.03	10	7.41	553	2	0.02	28	550	36	0.03	4	1	56
YY14422		<10	<1	0.03	20	2.55	872	2	0.02	22	1560	75	0.12	5	1	30
YY14423		<10	1	0.02	10	7.07	496	1	0.02	19	1210	46	0.07	3	1	63
YY14424		<10	1	0.02	10	7.67	458	1	0.02	16	970	14	0.08	2	1	64
YY14425		<10	<1	0.02	10	9.15	464	1	0.02	17	470	24	0.03	<2	1	69
YY14426		<10	<1	0.02	10	8.30	480	1	0.02	52	540	9	0.04	3	1	58
YY14427		<10	<1	0.01	10	10.05	436	1	0.02	47	300	5	0.02	4	1	61
YY14428		<10	1	0.06	20	0.58	167	20	0.01	39	930	63	0.17	9	1	41
YY14429		<10	<1	0.06	20	0.11	159	15	0.01	26	900	38	0.08	9	1	30
YY14430		<10	<1	0.04	30	0.04	19	10	0.01	12	350	30	0.03	4	<1	18
YY14431		<10	<1	0.05	30	0.10	131	12	0.01	34	810	82	0.08	7	1	71
YY14432		<10	1	0.05	20	0.10	111	12	0.01	27	520	32	0.08	9	1	27
YY14433		<10	<1	0.05	20	0.69	207	24	0.01	47	760	68	0.09	11	1	43
YY14434		<10	<1	0.12	30	0.03	129	32	0.01	46	1060	37	0.27	4	2	100
YY14435		<10	1	0.13	20	0.02	71	41	0.01	68	1260	43	0.38	6	3	171
YY14436		<10	1	0.12	10	0.01	28	42	0.01	26	1130	26	0.25	8	3	80
YY14437		<10	<1	0.14	20	0.01	30	43	0.01	41	1500	42	0.30	9	3	90
YY14438		<10	<1	0.07	10	0.03	73	27	0.02	28	1040	26	0.17	6	<1	44
YY14439		<10	<1	0.08	20	0.06	121	27	0.01	21	780	321	0.16	16	1	75
YY14440		<10	1	0.05	20	1.02	787	19	0.01	70	910	1240	0.10	40	2	53
YY14441		<10	<1	0.05	30	0.02	67	24	0.01	44	2310	30	0.05	13	1	23
YY14442		<10	<1	0.05	50	0.01	48	23	0.01	21	850	26	0.03	13	1	13
YY14443		<10	<1	0.05	30	0.04	69	18	0.01	41	1050	28	0.06	8	1	27
YY14444		<10	<1	0.04	30	0.04	53	17	0.01	26	910	23	0.05	7	<1	19
YY14445		<10	<1	0.03	20	0.10	325	7	0.01	33	600	43	0.04	4	<1	10
YY14446		<10	<1	0.05	20	0.13	494	12	0.01	58	1220	73	0.05	8	<1	20
YY14447		<10	<1	0.04	20	0.17	281	5	0.02	36	820	56	0.04	4	<1	12
YY14448		<10	<1	0.03	<10	0.32	172	1	0.05	8	630	14	0.07	<2	<1	13
YY14449		<10	<1	0.02	10	6.74	471	2	0.02	26	430	117	0.03	3	1	51
YY14450		<10	<1	0.02	10	8.98	456	1	0.03	14	330	56	0.02	2	1	69



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Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Ti	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm
LOD	20	0.01	10	10	1	10	2
YY14411	<20	<0.01	<10	<10	8	<10	158
YY14412	<20	0.01	<10	<10	28	<10	28
YY14413	<20	0.01	<10	<10	27	<10	33
YY14414	<20	<0.01	<10	<10	29	<10	49
YY14415	<20	0.01	<10	<10	31	<10	56
YY14416	<20	0.01	<10	<10	32	<10	75
YY14417	<20	0.01	<10	<10	24	<10	92
YY14418	<20	0.01	<10	<10	31	<10	455
YY14419	<20	0.01	<10	<10	16	<10	70
YY14420	<20	0.01	<10	<10	20	<10	46
YY14421	<20	0.01	<10	<10	17	<10	51
YY14422	<20	0.01	<10	<10	39	<10	91
YY14423	<20	0.01	<10	<10	28	<10	60
YY14424	<20	<0.01	<10	<10	15	<10	41
YY14425	<20	0.01	<10	<10	17	<10	43
YY14426	<20	0.01	<10	<10	12	<10	92
YY14427	<20	0.01	<10	<10	8	<10	107
YY14428	<20	0.01	<10	<10	29	<10	70
YY14429	<20	0.01	<10	<10	19	<10	63
YY14430	<20	<0.01	<10	<10	16	<10	12
YY14431	<20	<0.01	<10	<10	23	<10	58
YY14432	<20	<0.01	<10	<10	15	<10	48
YY14433	<20	<0.01	<10	<10	18	<10	192
YY14434	<20	<0.01	<10	<10	34	<10	54
YY14435	<20	<0.01	<10	<10	46	<10	58
YY14436	<20	<0.01	<10	<10	27	<10	45
YY14437	<20	<0.01	<10	<10	30	<10	99
YY14438	<20	0.01	<10	<10	27	<10	63
YY14439	<20	<0.01	<10	<10	23	<10	62
YY14440	<20	<0.01	<10	<10	29	<10	674
YY14441	<20	<0.01	<10	<10	32	<10	163
YY14442	<20	<0.01	<10	<10	18	<10	94
YY14443	<20	<0.01	<10	<10	21	<10	82
YY14444	<20	0.01	<10	<10	22	<10	66
YY14445	<20	0.02	<10	<10	39	<10	133
YY14446	<20	0.01	<10	<10	31	<10	174
YY14447	<20	0.01	<10	<10	30	<10	151
YY14448	<20	0.02	<10	<10	14	<10	40
YY14449	<20	0.01	<10	<10	15	<10	155
YY14450	<20	0.01	<10	<10	12	<10	85



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To: STRATEGIC METALS LTD.  
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Project: GROUNDHOG

**CERTIFICATE OF ANALYSIS WH18199706**

Sample Description	Method Analyte Units LOD	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
YY14451		0.26	0.005	0.4	0.17	23	<10	30	<0.5	<2	15.7	0.5	4	5	8	1.25
YY14452		0.46	0.004	0.2	0.12	10	<10	20	<0.5	<2	16.8	0.7	2	4	5	0.92
YY14453		0.26	0.005	0.2	0.37	13	<10	40	<0.5	<2	12.0	1.1	6	10	11	1.37
YY14454		0.21	0.014	0.2	0.67	34	<10	20	<0.5	<2	16.1	1.7	9	6	44	1.46
YY14455		0.36	0.006	0.7	0.21	51	<10	100	<0.5	<2	4.61	0.6	4	5	20	1.17
YY14456		0.46	0.017	0.7	0.85	89	<10	80	<0.5	<2	5.32	1.4	9	7	65	1.90
YY14457		0.44	0.002	0.7	0.24	39	<10	190	<0.5	<2	0.08	<0.5	2	5	26	1.97
YY14458		0.64	0.002	0.4	0.33	52	<10	120	<0.5	<2	0.12	0.5	5	6	48	2.28
YY14459		0.38	0.005	0.6	0.36	20	<10	120	<0.5	<2	0.22	1.2	10	7	73	3.29
YY14460		0.41	0.003	0.9	0.54	24	<10	90	<0.5	<2	0.15	1.2	11	7	98	2.86
YY14461		0.32	0.001	1.0	0.45	46	<10	190	<0.5	<2	0.16	0.8	17	15	104	4.68
YY14462		0.43	0.001	0.4	0.49	97	<10	150	<0.5	<2	0.10	1.5	18	14	94	5.31
YY14463		0.35	0.016	0.7	0.69	93	<10	80	0.8	<2	1.61	1.5	13	10	210	3.57
YY14464		0.43	0.008	1.8	0.23	180	<10	70	<0.5	<2	7.7	1.0	19	6	46	4.69
YY14465		0.17	0.003	6.6	0.19	47	<10	50	<0.5	<2	10.4	1.4	6	5	121	1.44
YY04716		0.36	<0.001	1.0	0.84	16	<10	110	<0.5	<2	0.37	1.0	7	6	41	2.16
YY04717		0.43	0.004	2.0	0.42	51	<10	360	0.5	<2	3.95	1.7	9	7	58	3.38
YY04718		0.38	0.001	1.1	0.47	33	<10	490	<0.5	<2	1.37	1.7	13	7	65	3.85
YY04719		0.31	0.004	0.8	0.61	30	<10	130	<0.5	<2	0.43	1.6	16	7	75	4.26
YY04720		0.41	0.001	0.7	0.43	35	<10	130	<0.5	<2	0.44	1.0	8	4	59	2.99
YY04721		0.34	<0.001	0.2	0.53	11	<10	80	<0.5	<2	0.44	0.6	8	9	42	2.28
YY04722		0.50	0.001	0.7	1.29	41	<10	190	0.9	<2	0.67	7.2	23	49	90	4.50
YY04723		0.40	0.002	0.8	0.60	53	<10	100	<0.5	<2	0.22	0.7	16	9	85	4.55
YY04724		0.33	0.006	1.0	0.71	64	<10	60	<0.5	<2	0.05	1.4	12	11	71	4.85
YY04725		0.31	0.006	4.0	0.93	95	<10	130	0.5	<2	0.55	4.6	14	13	49	4.57
YY04726		0.31	0.002	0.5	1.46	58	<10	110	0.6	<2	0.20	1.8	9	22	20	4.11
YY04727		0.32	0.001	0.4	1.43	38	<10	130	0.6	<2	0.62	0.9	10	20	20	4.58
YY04728		0.39	0.014	1.7	0.83	172	<10	120	<0.5	<2	3.53	2.0	12	13	57	4.55
YY04729		0.30	0.001	1.4	1.19	41	<10	120	<0.5	<2	0.29	0.8	7	17	25	3.07
YY04730		0.37	0.001	1.0	0.79	36	10	70	<0.5	<2	1.07	1.1	8	12	37	2.69
YY04731		0.36	0.001	1.0	1.10	42	10	70	0.5	<2	1.73	0.8	13	18	44	3.67
YY04732		0.39	<0.001	0.4	1.10	28	<10	70	<0.5	<2	0.50	0.5	9	21	26	3.16
YY04733		0.40	0.004	1.2	0.47	55	<10	70	<0.5	<2	7.1	2.0	7	9	27	2.55
YY04734		0.32	0.003	1.5	0.80	65	10	140	<0.5	<2	3.75	2.3	10	12	31	3.43
YY04735		0.40	<0.001	<0.2	1.17	28	<10	140	<0.5	<2	0.40	<0.5	8	19	17	3.78
YY04736		0.28	0.004	0.6	0.89	61	<10	100	<0.5	<2	1.01	1.4	8	13	24	3.36
YY04737		0.35	<0.001	0.4	1.05	28	<10	80	0.5	<2	0.91	0.7	7	17	17	3.70
YY04738		0.37	0.001	0.5	0.54	49	10	80	<0.5	<2	10.6	1.2	7	8	15	2.62
YY04739		0.33	<0.001	<0.2	1.19	21	<10	70	<0.5	<2	0.24	<0.5	7	14	13	2.83
YY04740		0.37	<0.001	<0.2	0.97	15	<10	60	<0.5	<2	0.13	0.5	6	11	10	2.17



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Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units LOD	ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1	ppm 1
YY14451		<10	1	0.02	10	8.87	414	1	0.02	16	380	50	0.03	2	1	70
YY14452		<10	<1	0.01	10	9.60	371	1	0.02	9	270	45	0.02	2	1	74
YY14453		<10	<1	0.02	10	6.90	491	1	0.02	31	500	28	0.04	2	1	51
YY14454		<10	<1	0.01	10	9.23	435	2	0.02	69	480	21	0.03	3	1	64
YY14455		<10	1	0.06	10	2.68	174	20	0.02	27	570	53	0.15	6	<1	45
YY14456		<10	<1	0.04	10	3.14	319	10	0.02	84	820	91	0.12	8	1	57
YY14457		<10	<1	0.06	30	0.03	47	10	0.01	23	690	35	0.10	5	1	44
YY14458		<10	<1	0.04	40	0.06	64	5	0.01	37	1010	19	0.02	4	1	23
YY14459		<10	<1	0.05	50	0.10	149	5	0.01	57	1480	26	0.02	5	1	51
YY14460		<10	<1	0.04	40	0.11	75	6	0.01	72	1340	24	0.04	4	1	60
YY14461		<10	<1	0.06	20	0.14	280	9	0.01	94	1790	35	0.11	6	1	120
YY14462		<10	<1	0.06	30	0.19	430	13	0.01	109	1590	26	0.10	5	3	86
YY14463		<10	<1	0.05	20	0.85	330	17	0.01	64	960	46	0.20	8	4	52
YY14464		<10	<1	0.07	10	4.30	533	18	0.02	92	790	80	0.17	17	2	81
YY14465		<10	<1	0.03	10	5.79	548	2	0.03	28	870	88	0.10	79	1	70
YY04716		<10	<1	0.04	10	0.21	163	2	0.04	32	1010	105	0.05	8	1	26
YY04717		<10	<1	0.06	20	2.13	365	11	0.02	67	1830	156	0.04	18	2	64
YY04718		<10	<1	0.05	30	0.78	313	8	0.01	70	1200	78	0.03	10	2	27
YY04719		<10	<1	0.04	30	0.25	354	7	0.01	71	1450	34	0.04	5	2	37
YY04720		<10	<1	0.04	20	0.10	163	10	0.02	58	1140	27	0.06	6	1	43
YY04721		<10	<1	0.03	20	0.18	178	4	0.02	37	1130	18	0.06	3	1	19
YY04722		<10	<1	0.11	30	1.15	734	6	0.01	86	1310	43	0.03	4	6	24
YY04723		<10	<1	0.04	40	0.29	645	8	0.01	99	1210	31	0.02	10	2	14
YY04724		<10	<1	0.04	20	0.17	600	8	0.01	85	1540	114	0.05	9	1	6
YY04725		<10	<1	0.05	20	0.36	1040	5	0.02	63	1310	1015	0.07	12	2	14
YY04726		<10	<1	0.05	20	0.43	776	3	0.01	37	720	372	0.04	4	1	10
YY04727		<10	<1	0.04	20	0.50	976	2	0.02	32	1120	53	0.07	2	2	13
YY04728		<10	<1	0.04	20	2.02	684	5	0.02	67	1670	204	0.07	10	2	32
YY04729		<10	<1	0.04	20	0.44	270	4	0.02	29	970	188	0.04	6	1	14
YY04730		<10	<1	0.04	20	0.64	242	5	0.01	38	1240	71	0.03	7	2	29
YY04731		<10	<1	0.04	30	0.88	388	4	<0.01	44	1190	59	0.04	8	3	60
YY04732		<10	<1	0.05	30	0.58	346	4	<0.01	34	1090	33	0.02	3	2	23
YY04733		<10	<1	0.04	10	4.20	559	5	0.01	30	730	161	0.04	9	2	61
YY04734		<10	<1	0.04	10	2.09	990	3	<0.01	35	1350	303	0.08	5	1	30
YY04735		<10	1	0.04	20	0.55	725	3	<0.01	26	1140	60	0.03	3	2	13
YY04736		<10	<1	0.04	20	0.61	678	3	0.01	30	1210	72	0.06	6	2	16
YY04737		<10	<1	0.03	20	0.55	500	2	<0.01	26	1230	40	0.06	<2	2	15
YY04738		<10	<1	0.03	10	6.26	697	1	0.01	34	610	96	0.07	7	1	54
YY04739		<10	<1	0.04	20	0.56	354	3	<0.01	20	1070	26	0.03	2	1	10
YY04740		<10	<1	0.05	10	0.40	326	2	0.01	16	870	19	0.02	2	<1	7





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Project: GROUNDHOG

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Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Ti	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm
LOD	20	0.01	10	10	1	10	2
YY14451	<20	<0.01	<10	<10	10	<10	77
YY14452	<20	<0.01	<10	<10	9	<10	74
YY14453	<20	0.01	<10	<10	16	<10	101
YY14454	<20	0.01	<10	<10	14	<10	150
YY14455	<20	0.01	<10	<10	14	<10	83
YY14456	<20	<0.01	<10	<10	22	<10	174
YY14457	<20	<0.01	<10	<10	20	<10	11
YY14458	<20	<0.01	<10	<10	16	<10	160
YY14459	<20	<0.01	<10	<10	16	<10	160
YY14460	<20	<0.01	<10	<10	15	<10	288
YY14461	<20	<0.01	<10	<10	20	<10	208
YY14462	<20	<0.01	<10	<10	27	<10	332
YY14463	<20	<0.01	<10	10	22	<10	129
YY14464	<20	<0.01	<10	<10	17	<10	151
YY14465	<20	<0.01	<10	<10	8	<10	158
YY04716	<20	0.01	<10	<10	21	<10	289
YY04717	<20	<0.01	<10	<10	25	<10	352
YY04718	<20	<0.01	<10	<10	20	<10	336
YY04719	<20	<0.01	<10	<10	22	<10	302
YY04720	<20	0.01	<10	<10	16	<10	184
YY04721	<20	0.01	<10	<10	19	<10	138
YY04722	<20	0.07	<10	<10	51	<10	1640
YY04723	<20	0.01	<10	<10	21	<10	120
YY04724	<20	0.01	<10	<10	22	<10	350
YY04725	<20	0.01	<10	<10	24	<10	882
YY04726	<20	0.01	<10	<10	33	<10	495
YY04727	<20	0.01	<10	<10	30	<10	217
YY04728	<20	0.01	<10	<10	27	<10	373
YY04729	<20	0.01	<10	<10	28	<10	326
YY04730	<20	0.01	<10	<10	18	<10	262
YY04731	<20	0.01	<10	<10	18	<10	213
YY04732	<20	0.01	<10	<10	27	<10	149
YY04733	<20	0.01	<10	<10	18	<10	344
YY04734	<20	<0.01	<10	<10	19	<10	365
YY04735	<20	0.01	<10	<10	27	<10	137
YY04736	<20	0.01	<10	<10	23	<10	237
YY04737	<20	0.01	<10	<10	27	<10	171
YY04738	<20	0.01	<10	<10	15	<10	254
YY04739	<20	0.01	<10	<10	22	<10	118
YY04740	<20	0.01	<10	<10	19	<10	86



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Sample Description	Method Analyte Units LOD	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
YY04741		0.42	0.008	0.7	0.57	92	10	70	<0.5	<2	6.59	2.0	5	7	18	3.16
YY04742		0.39	0.054	2.2	0.55	403	10	70	<0.5	<2	9.4	3.0	8	8	33	4.05
YY04743		0.32	<0.001	0.5	0.76	28	<10	50	<0.5	<2	1.83	1.0	7	8	24	2.77
YY04744		0.43	0.004	0.7	0.62	60	<10	100	<0.5	<2	2.41	1.4	8	10	33	3.43
YY04745		0.33	0.005	1.0	0.73	62	<10	100	<0.5	<2	2.12	1.2	6	11	46	2.39
YY04746		0.43	0.011	2.8	0.41	125	10	290	<0.5	<2	7.9	11.3	11	8	52	5.91
YY04747		0.33	0.012	1.7	0.51	83	<10	110	<0.5	<2	6.22	2.3	7	8	60	3.41
YY04748		0.39	0.027	0.7	0.43	85	<10	110	<0.5	<2	9.2	0.6	6	8	36	3.16
YY04749		0.39	0.015	1.0	0.66	154	<10	170	<0.5	<2	5.92	0.7	8	8	46	3.55
YY04750		0.40	0.004	0.6	0.30	68	<10	100	<0.5	<2	6.26	0.9	7	7	45	3.92



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Sample Description	Method Analyte Units LOD	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
YY04741		<10	<1	0.03	10	3.75	914	2	0.01	23	1130	101	0.06	5	1	33
YY04742		<10	<1	0.03	10	5.41	1040	3	0.01	38	1170	425	0.04	14	2	58
YY04743		<10	<1	0.04	10	0.85	368	2	0.01	25	1480	43	0.07	2	1	29
YY04744		<10	<1	0.03	10	1.48	723	5	0.01	36	730	77	0.04	7	2	21
YY04745		<10	<1	0.03	10	1.16	187	6	0.01	42	910	117	0.05	8	1	25
YY04746		<10	<1	0.03	10	4.39	1885	5	0.01	65	1070	992	0.16	14	2	209
YY04747		<10	<1	0.04	10	3.62	448	5	0.01	41	650	335	0.06	12	1	37
YY04748		<10	<1	0.04	10	5.27	547	5	0.01	35	370	38	0.05	11	1	43
YY04749		<10	<1	0.07	10	3.54	537	10	0.01	38	860	35	0.12	15	2	44
YY04750		<10	<1	0.03	10	3.58	773	9	<0.01	50	470	39	0.04	12	2	33

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



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Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
LOD	20	0.01	10	10	1	10	2	
YY04741		<20	0.01	<10	<10	14	<10	256
YY04742		<20	0.01	<10	<10	16	<10	529
YY04743		<20	0.01	<10	<10	13	<10	124
YY04744		<20	0.01	<10	<10	20	<10	324
YY04745		<20	0.01	<10	<10	24	<10	296
YY04746		<20	<0.01	<10	<10	20	<10	1420
YY04747		<20	0.01	<10	<10	20	<10	299
YY04748		<20	0.01	<10	<10	19	<10	42
YY04749		<20	0.01	<10	<10	31	<10	58
YY04750		<20	<0.01	<10	<10	21	<10	55



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Finalized Date: **31- AUG- 2018**  
Account: **MTT**

Project: GROUNDHOG

**CERTIFICATE OF ANALYSIS WH18199706**

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



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 Account: MTT

**CERTIFICATE WH18199709**

Project: GROUNDHOG

This report is for 207 Soil samples submitted to our lab in Whitehorse, YT, Canada on 15-AUG-2018.

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	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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

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

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: GROUNDHOG

**CERTIFICATE OF ANALYSIS WH18199709**

Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Au Check ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm
YY08251		0.40	0.001		0.5	0.19	91	<10	100	<0.5	<2	0.03	<0.5	5	6	42
YY08252		0.32	<0.001		0.3	0.16	49	<10	60	<0.5	2	0.05	<0.5	1	8	16
YY08253		0.43	0.002		0.6	0.11	183	<10	100	<0.5	2	0.26	0.5	2	6	43
YY08255		0.37	<0.001		0.6	0.07	50	<10	80	<0.5	2	0.31	<0.5	1	4	13
YY08256		0.33	0.003		0.5	0.11	72	<10	50	<0.5	<2	2.96	0.6	4	5	22
YY08257		0.42	0.003		1.0	0.15	84	<10	60	<0.5	2	4.67	1.3	4	5	25
YY08258		0.43	0.022		3.7	0.17	193	<10	30	<0.5	<2	11.4	6.4	8	3	50
YY08301		0.36	0.002		0.3	0.65	50	<10	100	<0.5	<2	0.07	<0.5	4	17	24
YY08302		0.43	0.001		0.6	0.17	55	<10	120	<0.5	<2	0.02	<0.5	2	8	28
YY08303		0.40	0.002		0.6	0.32	114	<10	100	<0.5	<2	0.12	0.6	12	9	83
YY08304		0.35	0.001		0.7	0.49	89	<10	140	<0.5	<2	0.03	<0.5	6	10	52
YY08305		0.31	0.001		0.4	0.68	138	<10	140	0.6	<2	0.07	0.6	16	12	115
YY08306		0.34	0.030		1.4	0.59	155	<10	80	<0.5	<2	2.17	2.5	7	11	44
YY08307		0.37	0.006		16.3	0.67	85	<10	80	<0.5	<2	5.57	4.4	5	10	59
YY08308		0.33	0.004		0.5	0.61	60	<10	70	<0.5	<2	6.54	0.5	9	10	20
YY08309		0.38	0.016		1.6	0.27	61	<10	80	<0.5	<2	3.89	<0.5	5	6	14
YY08310		0.40	0.013		0.8	0.43	59	<10	50	<0.5	<2	9.2	0.6	6	11	21
YY08311		0.36	0.004		0.2	0.78	56	<10	60	<0.5	<2	8.4	1.0	12	17	20
YY08312		0.32	0.010		0.2	2.18	113	<10	40	<0.5	<2	5.83	<0.5	19	7	24
YY08313		0.37	0.020		0.3	1.16	122	<10	50	<0.5	<2	9.1	<0.5	17	23	34
YY08314		0.35	0.138		0.4	0.17	89	<10	20	<0.5	<2	15.7	0.7	6	4	11
YY08315		0.40	0.130		0.2	0.38	104	<10	30	<0.5	<2	14.5	0.9	10	6	31
YY08316		0.41	0.072		0.2	0.21	72	<10	10	<0.5	<2	17.2	0.7	6	4	22
YY08317		0.41	0.049		0.2	0.75	206	<10	50	0.8	<2	6.21	2.6	16	8	111
YY08318		0.42	0.030		0.6	0.07	149	<10	80	<0.5	<2	0.08	<0.5	1	3	17
YY08319		0.43	0.006		1.0	0.10	120	<10	80	<0.5	<2	0.07	<0.5	3	4	24
YY08320		0.34	0.017		1.2	0.11	210	<10	110	<0.5	<2	0.05	<0.5	3	7	35
YY08321		0.40	<0.001		0.6	0.09	29	<10	60	<0.5	<2	0.05	<0.5	1	8	42
YY08322		0.41	0.002		1.1	0.25	113	<10	300	<0.5	<2	0.10	<0.5	3	13	39
YY08323		0.35	0.002		0.5	0.23	67	<10	250	<0.5	<2	0.06	<0.5	3	9	55
YY08324		0.42	0.001		0.7	0.29	114	<10	140	<0.5	2	0.10	1.8	6	13	91
YY08325		0.35	0.005		0.8	0.16	140	<10	130	<0.5	<2	0.04	<0.5	2	7	60
YY08326		0.41	<0.001		0.5	0.34	74	<10	120	<0.5	<2	0.06	<0.5	3	6	30
YY08327		0.34	0.001		0.5	0.20	65	<10	140	<0.5	<2	0.05	<0.5	3	5	19
YY08328		0.40	0.001		0.5	0.12	29	<10	120	<0.5	<2	0.03	<0.5	2	3	11
YY08329		0.33	0.001		0.7	0.34	73	<10	120	<0.5	<2	0.01	<0.5	4	7	50
YY08330		0.39	0.019		0.5	0.30	59	<10	100	<0.5	<2	0.02	<0.5	4	8	33
YY08331		0.36	0.007		0.6	0.97	30	<10	120	<0.5	<2	0.34	0.5	5	15	26
YY08332		0.31	0.023		1.0	0.65	116	<10	110	<0.5	<2	2.55	1.7	13	15	37
YY08333		0.34	0.013		0.7	1.18	101	<10	170	0.6	<2	0.30	0.6	9	24	33



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 Account: MTT

Project: GROUNDHOG

**CERTIFICATE OF ANALYSIS WH18199709**

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
Units		%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
LOD		0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
YY08251		2.52	<10	<1	0.07	20	0.03	97	28	0.01	41	970	27	0.17	8	1
YY08252		1.12	<10	<1	0.05	10	0.02	81	20	0.01	18	480	72	0.09	7	<1
YY08253		2.80	<10	<1	0.20	10	0.08	69	48	0.01	35	820	30	0.52	16	1
YY08255		1.31	<10	<1	0.12	10	0.09	73	33	<0.01	17	390	34	0.28	13	<1
YY08256		2.35	<10	<1	0.07	10	1.52	338	21	0.01	35	540	31	0.15	9	1
YY08257		2.26	<10	<1	0.06	10	2.62	488	21	0.01	35	620	126	0.13	11	1
YY08258		2.85	<10	1	0.02	10	6.52	750	3	0.01	40	410	948	0.09	38	1
YY08301		2.17	<10	1	0.06	10	0.12	146	13	0.01	22	960	37	0.12	6	<1
YY08302		2.15	<10	<1	0.10	20	0.02	33	38	0.01	18	940	50	0.18	9	1
YY08303		3.67	<10	<1	0.06	20	0.03	137	25	0.01	73	1620	36	0.10	12	2
YY08304		2.90	<10	<1	0.06	10	0.04	111	25	0.01	39	1410	45	0.09	11	1
YY08305		4.64	<10	<1	0.05	10	0.07	227	22	0.01	87	1930	48	0.07	11	1
YY08306		4.21	<10	<1	0.03	10	1.06	996	7	0.01	56	1230	304	0.06	16	1
YY08307		3.59	<10	<1	0.02	10	3.12	652	3	0.02	21	890	5640	0.07	25	1
YY08308		3.09	<10	<1	0.04	10	3.69	677	3	0.02	26	1160	59	0.07	4	1
YY08309		1.78	<10	<1	0.11	10	2.19	236	11	0.01	14	570	50	0.20	3	1
YY08310		2.05	<10	<1	0.03	10	5.32	368	5	0.02	24	680	66	0.03	6	2
YY08311		2.44	<10	<1	0.03	10	4.92	691	1	0.02	33	1050	38	0.06	4	1
YY08312		5.32	10	1	0.03	20	4.03	523	1	0.01	19	2650	18	0.09	4	6
YY08313		3.10	<10	1	0.03	10	5.77	559	<1	0.01	41	930	20	0.06	4	3
YY08314		1.39	<10	<1	0.02	10	8.96	472	1	0.02	29	370	60	0.04	6	1
YY08315		1.92	<10	1	0.01	10	8.12	551	1	0.02	49	600	26	0.05	5	1
YY08316		1.58	<10	<1	0.01	10	9.57	437	1	0.02	48	260	35	0.04	6	<1
YY08317		4.11	<10	1	0.03	10	3.45	513	10	0.01	204	1850	17	0.08	42	1
YY08318		0.85	<10	1	0.07	30	0.03	29	19	0.01	14	250	25	0.13	10	1
YY08319		1.77	<10	<1	0.07	20	0.02	81	34	0.01	31	450	34	0.14	13	1
YY08320		2.87	<10	<1	0.16	20	0.02	52	29	0.01	42	950	49	0.34	12	1
YY08321		0.96	<10	<1	0.08	20	0.01	20	14	0.01	12	660	30	0.18	3	2
YY08322		4.18	<10	<1	0.35	20	0.05	119	47	0.01	28	1210	55	0.80	7	1
YY08323		2.78	<10	<1	0.15	20	0.04	96	43	0.01	35	960	35	0.35	8	1
YY08324		4.47	<10	<1	0.16	10	0.03	370	36	0.01	70	1250	36	0.43	9	2
YY08325		2.70	<10	<1	0.18	20	0.02	46	49	0.01	37	930	42	0.42	10	1
YY08326		1.95	<10	<1	0.12	10	0.04	72	25	0.02	28	880	25	0.25	5	<1
YY08327		2.00	<10	1	0.07	20	0.02	85	19	0.01	23	630	36	0.14	12	1
YY08328		1.26	<10	<1	0.05	20	0.01	24	12	0.01	20	450	17	0.10	5	<1
YY08329		3.12	<10	<1	0.05	20	0.02	93	20	0.01	49	1310	33	0.08	10	1
YY08330		2.29	<10	1	0.04	20	0.03	145	17	0.01	33	1030	30	0.06	7	1
YY08331		2.78	<10	<1	0.02	10	0.26	333	3	0.02	38	910	38	0.04	3	1
YY08332		4.42	<10	1	0.04	20	1.47	1300	7	0.01	96	840	99	0.05	8	1
YY08333		3.35	<10	1	0.03	20	0.39	352	6	0.01	56	720	92	0.03	4	2





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Project: GROUNDHOG

**CERTIFICATE OF ANALYSIS WH18199709**

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Sr ppm 1	Th ppm 20	Ti % 0.01	Tl ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
YY08251		54	<20	<0.01	<10	<10	26	<10	82
YY08252		16	<20	<0.01	<10	<10	16	<10	59
YY08253		153	<20	<0.01	<10	<10	34	<10	73
YY08255		32	<20	<0.01	<10	<10	12	<10	27
YY08256		41	<20	<0.01	<10	<10	15	<10	69
YY08257		45	<20	<0.01	<10	<10	17	<10	213
YY08258		74	<20	<0.01	<10	<10	9	<10	1435
YY08301		28	<20	0.01	<10	<10	37	<10	74
YY08302		24	<20	<0.01	<10	<10	32	<10	25
YY08303		34	<20	<0.01	<10	<10	26	<10	105
YY08304		28	<20	<0.01	<10	<10	32	<10	81
YY08305		32	<20	<0.01	<10	<10	31	<10	151
YY08306		22	<20	0.01	<10	<10	26	<10	433
YY08307		43	<20	0.02	<10	<10	23	<10	743
YY08308		36	<20	0.01	<10	<10	23	<10	78
YY08309		24	<20	0.01	<10	<10	17	<10	42
YY08310		43	<20	0.02	<10	<10	20	<10	87
YY08311		42	<20	0.01	<10	<10	29	<10	129
YY08312		56	<20	<0.01	<10	<10	91	<10	73
YY08313		47	<20	0.02	<10	<10	42	<10	76
YY08314		53	<20	<0.01	<10	<10	8	<10	104
YY08315		49	<20	<0.01	<10	<10	13	<10	121
YY08316		53	<20	<0.01	<10	<10	8	<10	106
YY08317		88	<20	<0.01	<10	<10	21	<10	327
YY08318		42	<20	<0.01	<10	<10	11	<10	27
YY08319		31	<20	<0.01	<10	<10	20	<10	49
YY08320		138	<20	<0.01	<10	<10	29	<10	24
YY08321		63	<20	<0.01	<10	<10	17	<10	10
YY08322		71	<20	0.01	<10	<10	57	<10	31
YY08323		47	<20	0.01	<10	<10	37	<10	114
YY08324		139	<20	<0.01	<10	<10	61	<10	164
YY08325		97	<20	<0.01	<10	<10	28	<10	86
YY08326		48	<20	0.01	<10	<10	32	<10	66
YY08327		46	<20	<0.01	<10	<10	21	<10	53
YY08328		49	<20	<0.01	<10	<10	11	<10	44
YY08329		46	<20	<0.01	<10	<10	23	<10	107
YY08330		30	<20	<0.01	<10	<10	19	<10	81
YY08331		15	<20	0.02	<10	<10	31	<10	152
YY08332		25	<20	0.02	<10	<10	31	<10	311
YY08333		15	<20	0.02	<10	<10	41	<10	212



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Sample Description	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	Au-ICP21 Au Check ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm
	Method Analyte Units LOD	0.02	0.001	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1
YY08334	0.36	0.003		0.8	0.32	38	<10	70	<0.5	<2	10.9	0.8	5	8	21
YY08335	0.35	<0.001		0.4	0.33	38	<10	50	<0.5	<2	11.4	0.9	4	6	15
YY08336	0.37	0.002		0.7	0.28	42	<10	30	<0.5	<2	13.0	1.0	3	5	12
YY08337	0.29	0.005		0.5	0.11	64	<10	20	<0.5	<2	15.8	1.2	3	3	11
YY08338	0.43	<0.001		0.3	0.12	12	<10	20	<0.5	<2	18.4	0.6	3	4	5
YY08339	0.34	0.002		0.2	0.14	21	<10	20	<0.5	<2	17.1	<0.5	4	4	6
YY08340	0.31	0.004		0.2	0.82	70	<10	50	<0.5	<2	10.6	<0.5	12	14	17
YY08341	0.48	0.009		0.4	0.19	60	<10	40	<0.5	2	15.2	<0.5	3	5	10
YY08342	0.39	0.014		0.3	0.23	29	<10	40	<0.5	<2	13.2	<0.5	4	6	9
YY08343	0.47	<0.001		0.2	0.12	13	<10	90	<0.5	<2	17.3	<0.5	2	5	4
YY08344	0.44	0.001		0.2	0.13	12	<10	100	<0.5	<2	17.6	<0.5	2	5	4
YY08345	0.34	0.006		0.3	0.24	20	<10	110	<0.5	<2	12.9	<0.5	3	7	7
YY08346	0.35	0.004		0.4	0.63	85	<10	120	<0.5	<2	4.14	<0.5	26	9	21
YY08347	0.41	<0.001		0.7	0.41	53	<10	90	<0.5	<2	8.7	0.6	20	7	75
YY08348	0.37	<0.001		0.8	0.24	75	<10	180	<0.5	<2	2.32	0.7	22	7	40
YY08349	0.37	0.007		0.6	0.28	59	<10	110	<0.5	<2	3.07	0.9	13	7	23
YY08350	0.40	0.002		0.8	0.26	39	<10	110	<0.5	<2	2.63	1.0	8	6	20
YY08351	0.50	0.002		0.5	0.41	52	<10	110	<0.5	<2	11.7	0.9	5	7	48
YY08352	0.47	0.002		0.9	0.51	42	<10	60	0.5	<2	13.0	1.4	10	22	27
YY08353	0.47	0.029		3.3	0.37	234	<10	90	<0.5	<2	11.7	4.1	12	8	38
YY08354	0.50	0.042		1.6	0.81	403	<10	80	0.5	<2	10.1	5.9	13	16	108
YY08355	0.39	0.013		1.7	0.62	159	<10	80	0.5	<2	7.2	2.1	11	17	26
YY08356	0.38	0.020		1.1	0.60	134	<10	90	<0.5	<2	5.81	1.7	8	10	23
YY08357	0.33	0.019		1.4	0.49	164	<10	90	<0.5	<2	8.7	1.9	7	9	23
YY08358	0.33	0.012		2.4	0.59	190	<10	90	<0.5	<2	10.2	3.8	8	10	26
YY08359	0.37	0.010		1.0	0.47	101	<10	90	<0.5	<2	10.1	1.4	6	9	19
YY08360	0.26	0.004		0.5	0.99	34	<10	170	<0.5	<2	1.90	1.2	8	12	21
YY08361	0.39	0.020		0.4	0.23	122	<10	30	<0.5	<2	6.15	0.8	6	5	12
YY08362	0.35	0.007		0.7	0.75	45	<10	70	<0.5	<2	2.17	0.6	5	16	22
YY08363	0.35	0.050		0.6	0.36	125	<10	60	<0.5	<2	5.74	<0.5	6	8	17
YY08364	0.36	0.058		1.1	0.36	195	<10	80	<0.5	<2	7.7	0.6	8	8	20
YY08365	0.40	0.041		1.5	0.42	173	10	70	<0.5	<2	5.71	0.7	9	10	27
YY08366	0.32	0.038		3.5	0.44	124	10	110	<0.5	<2	5.51	4.9	8	9	68
YY08367	0.42	0.034		2.8	0.25	65	<10	40	<0.5	2	9.4	6.9	4	6	53
YY08368	0.33	0.025		0.9	0.24	45	<10	40	<0.5	<2	11.1	1.8	4	7	14
YY08369	0.40	0.009		0.8	0.19	31	<10	30	<0.5	2	12.7	1.3	4	6	6
YY08370	0.30	0.004		0.6	0.49	27	<10	60	<0.5	<2	2.57	1.0	5	13	10
YY08371	0.44	0.010		1.9	0.19	201	<10	160	<0.5	<2	8.5	5.3	43	10	43
YY08372	0.41	0.005		1.8	0.44	194	<10	210	<0.5	<2	2.40	3.7	43	13	62
YY08373	0.48	0.004		1.8	0.37	139	<10	220	<0.5	<2	0.52	2.8	16	10	58



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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
Units		%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
LOD		0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
YY08334		2.17	<10	1	0.03	10	6.15	378	6	0.02	26	580	105	0.05	6	1
YY08335		2.10	<10	1	0.02	10	6.42	676	2	0.02	17	520	57	0.04	4	1
YY08336		1.80	<10	<1	0.02	10	7.30	551	1	0.02	15	370	126	0.03	2	1
YY08337		1.40	<10	<1	0.01	10	8.84	488	1	0.02	18	170	111	0.02	4	1
YY08338		0.89	<10	1	0.01	10	10.70	304	<1	0.02	9	210	51	0.02	3	1
YY08339		1.03	<10	<1	0.01	10	9.52	433	1	0.02	15	340	20	0.04	<2	1
YY08340		2.38	<10	<1	0.03	10	6.39	591	1	0.02	24	640	10	0.07	3	2
YY08341		1.42	<10	<1	0.01	10	8.57	997	1	0.02	8	390	39	0.05	3	1
YY08342		1.54	<10	<1	0.02	10	7.24	848	1	0.02	11	420	58	0.04	6	1
YY08343		0.92	<10	<1	0.01	10	10.25	877	1	0.02	10	160	11	0.02	2	1
YY08344		0.86	<10	<1	0.01	10	10.15	903	1	0.02	7	180	10	0.02	3	<1
YY08345		1.41	<10	1	0.02	10	7.44	1530	1	0.02	11	380	14	0.04	<2	1
YY08346		4.78	<10	<1	0.03	20	2.47	1150	3	0.01	51	1380	32	0.08	8	3
YY08347		4.09	<10	1	0.03	10	5.02	929	3	0.01	83	890	59	0.05	27	2
YY08348		5.16	<10	1	0.06	10	1.24	566	20	0.01	82	1080	130	0.10	10	3
YY08349		3.25	<10	<1	0.04	10	1.70	556	9	0.01	43	800	114	0.06	8	2
YY08350		2.81	<10	<1	0.03	10	1.48	796	7	0.01	42	530	120	0.03	9	1
YY08351		1.85	<10	<1	0.05	10	6.53	209	6	0.03	36	430	33	0.09	4	1
YY08352		2.96	<10	<1	0.03	10	7.54	527	3	0.02	56	430	127	0.05	8	2
YY08353		3.87	<10	1	0.03	10	6.54	838	3	0.02	39	790	494	0.06	15	2
YY08354		4.06	<10	1	0.04	10	5.47	858	3	0.02	53	1130	177	0.06	12	3
YY08355		3.76	<10	<1	0.04	20	3.94	780	3	0.02	39	1280	244	0.07	9	2
YY08356		3.61	<10	1	0.03	10	3.21	989	3	0.02	26	1280	172	0.08	7	1
YY08357		3.63	<10	<1	0.03	10	4.89	997	4	0.02	28	970	249	0.06	8	1
YY08358		4.08	<10	<1	0.03	10	5.63	1405	3	0.02	25	1190	564	0.07	11	1
YY08359		3.62	<10	<1	0.03	10	5.65	1240	3	0.02	25	900	190	0.06	7	1
YY08360		3.08	<10	<1	0.04	10	0.72	822	3	0.02	23	1380	58	0.14	4	1
YY08361		1.77	<10	<1	0.02	10	3.57	404	2	0.01	22	490	87	0.02	8	1
YY08362		2.17	<10	1	0.03	10	1.27	524	2	0.02	23	580	113	0.05	6	2
YY08363		2.39	<10	1	0.03	10	3.20	674	4	0.02	26	570	62	0.04	10	1
YY08364		2.76	<10	<1	0.04	10	4.22	1205	4	0.01	38	570	98	0.04	16	1
YY08365		3.01	<10	<1	0.04	10	3.18	949	5	0.01	36	680	120	0.05	12	2
YY08366		3.38	<10	<1	0.06	10	2.81	1665	6	0.01	37	1110	263	0.14	17	1
YY08367		1.68	<10	<1	0.03	20	5.14	900	2	0.02	14	500	697	0.05	24	1
YY08368		1.49	<10	<1	0.03	10	6.25	882	1	0.02	14	490	183	0.04	12	1
YY08369		1.32	<10	<1	0.02	10	6.98	709	1	0.02	11	320	221	0.02	4	1
YY08370		1.46	<10	1	0.04	10	1.37	481	2	0.01	17	650	143	0.06	6	1
YY08371		6.08	<10	<1	0.03	10	4.51	1080	7	0.01	163	1380	183	0.09	16	3
YY08372		5.90	<10	<1	0.06	20	1.14	884	14	0.01	178	1670	165	0.10	16	3
YY08373		3.59	<10	<1	0.07	10	0.19	420	24	0.01	83	1280	132	0.12	19	2



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Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Sr	Th	Ti	Tl	U	V	W	Zn
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		1	20	0.01	10	10	1	10	2
YY08334		53	<20	0.01	<10	<10	18	<10	124
YY08335		51	<20	0.01	<10	<10	14	<10	121
YY08336		58	<20	0.01	<10	<10	11	<10	133
YY08337		59	<20	<0.01	<10	<10	6	<10	192
YY08338		82	<20	0.01	<10	<10	10	<10	54
YY08339		69	<20	<0.01	<10	<10	9	<10	38
YY08340		49	<20	0.02	<10	<10	28	<10	50
YY08341		60	<20	0.01	<10	<10	8	<10	43
YY08342		45	<20	0.01	<10	<10	9	<10	56
YY08343		94	<20	0.01	<10	<10	7	<10	208
YY08344		90	<20	0.01	<10	<10	7	<10	137
YY08345		69	<20	0.01	<10	<10	10	<10	122
YY08346		53	<20	0.01	<10	<10	21	<10	266
YY08347		67	<20	0.01	<10	<10	16	<10	358
YY08348		38	<20	<0.01	<10	<10	13	<10	683
YY08349		43	<20	0.01	<10	<10	12	<10	555
YY08350		36	<20	<0.01	<10	<10	11	<10	496
YY08351		69	<20	0.01	<10	<10	22	<10	106
YY08352		67	<20	0.03	<10	<10	21	<10	345
YY08353		63	<20	0.01	<10	<10	14	<10	593
YY08354		69	<20	0.01	<10	<10	20	<10	586
YY08355		41	<20	0.01	<10	<10	23	<10	398
YY08356		36	<20	0.01	<10	<10	19	<10	287
YY08357		47	<20	0.01	<10	<10	18	<10	358
YY08358		50	<20	0.01	<10	<10	19	<10	571
YY08359		47	<20	0.01	<10	<10	18	<10	197
YY08360		24	<20	0.01	<10	<10	22	<10	188
YY08361		35	<20	0.01	<10	<10	10	<10	192
YY08362		21	<20	0.03	<10	<10	26	<10	103
YY08363		31	<20	0.01	<10	<10	15	<10	120
YY08364		40	<20	0.01	<10	<10	16	<10	232
YY08365		34	<20	0.01	<10	<10	18	<10	239
YY08366		38	<20	0.01	<10	<10	19	<10	836
YY08367		43	<20	0.01	<10	<10	9	<10	1420
YY08368		48	<20	0.01	<10	<10	9	<10	392
YY08369		47	<20	0.01	<10	<10	8	<10	211
YY08370		17	<20	0.02	<10	<10	18	<10	171
YY08371		133	<20	<0.01	<10	<10	13	<10	1815
YY08372		61	<20	<0.01	<10	<10	21	<10	1240
YY08373		45	<20	<0.01	<10	<10	23	<10	776



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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Au ppm	Au Check ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm
YY08374		0.35	0.005		1.3	0.33	117	<10	150	<0.5	<2	0.23	2.1	13	9	74
YY08375		0.31	0.006		1.9	0.58	63	<10	120	<0.5	<2	3.37	3.0	11	12	35
YY08376		0.32	0.005		0.7	0.26	68	<10	80	<0.5	<2	4.77	2.3	13	6	31
YY08377		0.32	0.008		1.9	0.27	81	<10	100	<0.5	<2	4.59	4.8	8	6	38
YY08378		0.32	0.009		1.6	0.26	77	<10	100	<0.5	<2	5.01	4.4	7	5	42
YY08379		0.34	0.004		0.6	1.06	38	<10	100	0.5	<2	3.23	1.5	8	19	18
YY08380		0.32	0.133		0.8	0.48	144	<10	40	<0.5	<2	9.6	1.6	7	10	22
YY08381		0.34	0.037		1.4	1.07	109	<10	140	0.6	<2	0.86	4.7	8	20	32
YY08382		0.30	0.073		1.0	0.69	135	<10	60	<0.5	<2	7.9	1.0	5	15	18
YY08383		0.38	0.088		1.5	0.73	122	<10	70	<0.5	<2	6.10	1.5	6	14	23
YY08384		0.37	0.086		2.0	0.51	204	<10	70	<0.5	<2	8.5	5.0	10	13	44
YY08385		0.43	0.560		0.9	0.17	331	<10	20	<0.5	<2	15.0	1.3	5	5	16
YY08386		0.47	0.247		0.3	0.16	71	<10	20	<0.5	<2	15.7	<0.5	4	6	7
YY08387		0.46	0.084		0.4	0.08	30	<10	10	<0.5	<2	18.7	0.8	3	3	6
YY08388		0.31	0.031		0.2	0.20	31	10	40	<0.5	<2	6.88	<0.5	4	7	6
YY08389		0.32	0.035		0.3	0.28	99	<10	50	<0.5	<2	4.80	<0.5	7	8	8
YY08390		0.45	0.019		1.0	0.30	123	<10	50	<0.5	<2	0.99	1.1	6	6	33
YY08391		0.35	0.033		3.1	0.06	101	<10	70	<0.5	<2	0.06	<0.5	<1	4	8
YY08392		0.35	0.004		0.4	0.80	205	<10	80	0.5	<2	0.20	1.7	24	28	90
YY08393		0.35	0.012		0.4	0.76	79	<10	110	<0.5	<2	0.13	<0.5	4	21	36
YY08394		0.34	0.005		0.4	0.77	92	<10	110	<0.5	<2	0.18	<0.5	4	22	22
YY08395		0.37	0.010		<0.2	0.67	110	<10	70	<0.5	<2	0.15	<0.5	5	27	13
YY08396		0.34	0.014		0.8	0.43	110	<10	130	<0.5	<2	0.57	<0.5	7	10	24
YY08397		0.56	0.013		0.5	0.12	51	<10	20	<0.5	<2	13.3	1.2	6	5	17
YY08398		0.46	0.069		0.6	0.18	174	<10	40	<0.5	<2	7.7	0.6	6	5	11
YY08399		0.53	0.055		0.3	0.24	127	<10	40	<0.5	<2	12.2	<0.5	5	5	11
YY08400		0.45	0.004		0.5	0.27	49	<10	140	<0.5	<2	0.07	<0.5	3	8	20
YY08401		0.34	0.006		0.6	0.31	34	<10	200	<0.5	<2	0.12	<0.5	5	6	40
YY08402		0.42	0.004		0.6	0.41	23	<10	80	<0.5	<2	0.14	<0.5	3	7	15
YY08403		0.37	0.006		0.9	0.56	66	<10	140	<0.5	<2	1.58	1.1	7	12	30
YY08404		0.46	0.004		1.3	0.59	38	<10	80	<0.5	<2	6.33	1.4	8	10	29
YY08405		0.33	0.011		11.3	0.34	54	<10	30	<0.5	<2	14.5	4.1	5	7	59
YY08406		0.32	0.005		1.0	0.46	28	<10	50	<0.5	<2	12.3	1.2	6	9	18
YY08407		0.48	0.015		2.0	0.22	117	<10	60	<0.5	<2	9.5	1.5	13	6	18
YY08408		0.37	0.071		0.6	0.33	697	<10	30	<0.5	<2	18.3	2.1	3	4	21
YY08409		0.36	0.021		2.5	0.37	166	<10	50	<0.5	<2	12.0	2.3	5	8	17
YY08410		0.37	0.020		3.7	0.28	133	<10	40	<0.5	<2	13.5	3.1	5	7	18
YY08411		0.30	0.040		1.1	0.30	236	<10	50	<0.5	<2	11.3	1.1	6	6	16
YY08412		0.35	0.054		1.7	0.37	293	<10	70	<0.5	<2	9.4	1.8	7	7	24
YY08413		0.31	0.046		1.4	0.40	315	<10	110	<0.5	<2	10.4	1.0	9	6	33



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**CERTIFICATE OF ANALYSIS WH18199709**

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm
YY08374		2.91	<10	1	0.05	10	0.09	272	19	0.01	67	1120	125	0.05	15	2
YY08375		3.47	<10	1	0.03	10	1.93	425	8	0.01	75	1250	270	0.03	12	2
YY08376		2.90	<10	<1	0.04	10	2.22	366	15	0.01	126	1930	63	0.01	12	2
YY08377		2.94	<10	<1	0.03	10	2.57	633	8	0.01	50	820	204	0.03	14	1
YY08378		2.65	<10	<1	0.03	10	2.79	534	8	0.01	48	910	195	0.03	11	1
YY08379		3.41	<10	<1	0.03	10	1.89	1055	2	0.01	26	990	188	0.05	3	1
YY08380		2.26	<10	<1	0.03	10	5.66	449	2	0.02	28	660	152	0.02	8	1
YY08381		5.17	<10	<1	0.03	20	0.60	1660	5	0.01	37	730	444	0.03	8	3
YY08382		2.47	<10	<1	0.02	10	4.65	324	2	0.02	19	660	178	0.02	5	2
YY08383		2.42	<10	<1	0.03	10	3.77	294	2	0.02	21	640	304	0.02	5	2
YY08384		2.58	<10	1	0.03	10	4.81	676	1	0.02	27	1050	423	0.06	12	1
YY08385		1.39	<10	<1	0.02	<10	8.60	442	1	0.02	17	270	118	0.01	9	1
YY08386		1.31	<10	1	0.01	<10	8.96	413	1	0.02	13	440	26	0.03	2	1
YY08387		1.15	<10	<1	0.01	<10	10.80	415	<1	0.02	15	150	55	0.02	2	<1
YY08388		1.06	<10	1	0.01	10	3.78	594	1	0.01	17	840	12	0.07	2	<1
YY08389		1.56	<10	<1	0.02	10	2.67	440	1	0.01	40	730	24	0.04	7	1
YY08390		2.18	<10	<1	0.05	10	0.51	326	12	0.01	71	630	61	0.07	11	1
YY08391		0.96	<10	<1	0.07	20	0.02	15	43	0.01	6	200	349	0.11	32	<1
YY08392		6.74	<10	<1	0.05	20	0.14	1190	12	0.01	84	1380	90	0.03	12	4
YY08393		2.68	<10	<1	0.10	10	0.21	131	23	0.01	19	830	22	0.18	6	2
YY08394		2.58	<10	1	0.06	20	0.22	115	17	0.01	18	1060	18	0.09	4	2
YY08395		2.57	<10	<1	0.04	20	0.22	189	9	0.01	16	810	19	0.04	4	1
YY08396		2.69	<10	<1	0.04	10	0.20	477	10	0.01	24	850	51	0.08	7	1
YY08397		1.72	<10	<1	0.02	10	7.60	446	1	0.02	22	290	132	<0.01	9	1
YY08398		2.06	<10	<1	0.02	10	4.37	1385	2	0.01	18	490	78	0.03	10	1
YY08399		1.83	<10	<1	0.02	10	6.91	1415	1	0.02	14	390	23	0.01	4	1
YY08400		1.90	<10	<1	0.08	20	0.05	114	18	0.01	23	820	37	0.14	10	1
YY08401		3.08	<10	<1	0.10	20	0.09	97	12	0.01	27	850	27	0.21	4	1
YY08402		1.31	<10	<1	0.03	30	0.16	125	8	0.01	17	420	23	<0.01	4	1
YY08403		2.87	<10	<1	0.12	20	0.79	388	14	0.01	33	950	82	0.21	11	2
YY08404		2.66	<10	1	0.04	10	3.90	444	4	0.01	35	860	140	0.02	6	2
YY08405		1.62	<10	<1	0.02	10	8.40	419	1	0.02	19	420	790	0.02	26	1
YY08406		1.85	<10	<1	0.03	10	7.21	489	2	0.02	26	490	168	0.02	5	1
YY08407		4.41	<10	<1	0.03	10	5.46	497	1	0.01	33	220	190	0.02	9	2
YY08408		2.44	<10	<1	0.01	<10	10.00	600	1	0.02	17	410	64	0.01	8	1
YY08409		1.98	<10	<1	0.02	10	6.83	593	1	0.02	17	600	303	0.05	7	1
YY08410		1.84	<10	<1	0.02	10	7.74	517	1	0.02	16	470	443	0.04	13	1
YY08411		2.49	<10	<1	0.03	10	6.41	676	2	0.02	22	770	122	0.06	7	1
YY08412		2.94	<10	<1	0.03	10	5.33	665	3	0.01	23	890	186	0.08	11	1
YY08413		4.36	<10	<1	0.04	10	5.77	968	5	0.02	30	910	139	0.06	15	1



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**CERTIFICATE OF ANALYSIS WH18199709**

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Sr ppm 1	Th ppm 20	Ti % 0.01	Tl ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
YY08374		35	<20	0.01	<10	<10	20	<10	682
YY08375		51	<20	0.02	<10	<10	25	<10	1190
YY08376		62	<20	0.01	<10	<10	19	<10	641
YY08377		75	<20	<0.01	<10	<10	15	<10	1670
YY08378		77	<20	<0.01	<10	<10	14	<10	1620
YY08379		24	<20	0.03	<10	<10	36	<10	253
YY08380		43	<20	0.01	<10	<10	20	<10	291
YY08381		14	<20	0.03	<10	<10	41	<10	961
YY08382		37	<20	0.02	<10	<10	27	<10	296
YY08383		33	<20	0.02	<10	<10	26	<10	413
YY08384		42	<20	0.01	<10	<10	24	<10	952
YY08385		63	<20	0.01	<10	<10	10	<10	332
YY08386		61	<20	<0.01	<10	<10	9	<10	57
YY08387		61	<20	<0.01	<10	<10	4	<10	139
YY08388		24	<20	<0.01	<10	<10	9	<10	55
YY08389		21	<20	0.01	<10	<10	11	<10	121
YY08390		32	<20	<0.01	<10	<10	20	<10	241
YY08391		14	<20	<0.01	<10	<10	9	<10	9
YY08392		32	<20	0.01	<10	<10	46	<10	173
YY08393		24	<20	0.04	<10	<10	43	<10	35
YY08394		32	<20	0.04	<10	<10	41	<10	38
YY08395		15	<20	0.06	<10	<10	51	<10	44
YY08396		15	<20	0.01	<10	<10	25	<10	79
YY08397		65	<20	<0.01	<10	<10	13	<10	210
YY08398		43	<20	<0.01	<10	<10	6	<10	85
YY08399		61	<20	0.01	<10	<10	9	<10	39
YY08400		33	<20	0.01	<10	<10	23	<10	64
YY08401		67	<20	0.01	<10	<10	26	<10	36
YY08402		10	<20	0.01	<10	<10	17	<10	65
YY08403		39	<20	0.01	<10	<10	31	<10	185
YY08404		38	<20	0.01	<10	<10	26	<10	308
YY08405		73	<20	0.01	<10	<10	17	<10	1020
YY08406		63	<20	0.01	<10	<10	22	<10	239
YY08407		65	<20	0.01	<10	<10	10	<10	491
YY08408		66	<20	<0.01	<10	<10	9	<10	221
YY08409		58	<20	0.01	<10	<10	16	<10	469
YY08410		67	<20	0.01	<10	<10	14	<10	759
YY08411		56	<20	<0.01	<10	<10	14	<10	199
YY08412		50	<20	<0.01	<10	<10	16	<10	324
YY08413		62	<20	0.01	<10	<10	17	<10	159



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**CERTIFICATE OF ANALYSIS WH18199709**

Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Au Check ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm
YY08414		0.32	0.027		0.9	0.51	213	<10	130	<0.5	<2	2.60	0.8	7	10	34
YY08415		0.44	0.091		0.9	0.63	150	<10	130	<0.5	<2	1.66	0.8	11	11	47
YY08416		0.44	0.060		1.0	0.47	453	<10	110	0.5	<2	4.47	0.8	15	18	42
YY08417		0.37	0.136		0.9	0.56	160	<10	80	0.5	<2	1.00	1.0	8	13	27
YY08418		0.28	0.006		0.3	0.42	34	<10	110	<0.5	<2	6.27	0.7	5	8	19
YY08419		0.36	0.018		0.5	0.23	54	<10	140	<0.5	<2	2.38	<0.5	4	4	37
YY08420		0.30	0.009		0.4	0.29	31	<10	70	<0.5	<2	10.2	0.5	6	7	24
YY08421		0.36	0.011		0.5	0.26	32	<10	60	<0.5	<2	9.3	<0.5	5	7	23
YY08422		0.32	0.007		0.8	0.20	60	<10	110	<0.5	<2	8.7	1.0	5	6	23
YY08423		0.24	0.004		0.2	0.40	15	<10	60	<0.5	<2	3.66	<0.5	3	4	9
YY08424		0.29	0.010		0.4	0.91	48	<10	120	0.5	<2	4.60	2.1	7	17	15
YY08425		0.30	0.008		0.3	0.64	35	<10	70	<0.5	<2	6.10	0.9	6	10	13
YY08426		0.34	0.010		0.4	0.45	27	<10	70	<0.5	<2	9.3	0.9	4	8	13
YY08427		0.26	0.008		0.4	0.55	26	<10	100	<0.5	<2	4.99	0.9	4	8	17
YY08428		0.33	0.013		0.7	0.40	29	<10	70	<0.5	<2	12.3	1.0	5	9	12
YY08429		0.29	0.018		0.7	0.56	49	<10	80	<0.5	<2	8.9	1.1	5	9	14
YY08430		0.33	0.027		1.1	0.35	41	<10	50	<0.5	<2	13.1	0.9	5	8	15
YY08431		0.41	0.013		0.5	0.46	22	<10	50	<0.5	<2	11.7	0.6	6	11	13
YY08432		0.42	0.013		0.5	0.26	19	<10	40	<0.5	<2	16.0	0.5	3	6	9
YY08433		0.38	0.012		0.3	0.25	20	<10	50	<0.5	<2	15.2	<0.5	3	5	11
YY08434		0.39	0.015		0.3	0.24	29	<10	40	<0.5	<2	15.8	<0.5	4	6	8
YY08435		0.30	0.020		0.7	0.50	62	<10	60	<0.5	<2	10.4	0.8	9	10	26
YY08436		0.35	0.005		0.2	0.17	23	<10	20	<0.5	<2	8.3	<0.5	3	4	6
YY08437		0.34	0.012		0.3	0.43	29	<10	40	<0.5	<2	8.0	<0.5	3	5	12
YY08438		0.39	0.012		0.3	0.14	30	<10	20	<0.5	<2	17.4	<0.5	3	5	6
YY08439		0.34	0.012		0.3	0.22	16	<10	30	<0.5	<2	15.2	<0.5	3	4	6
YY08440		0.35	0.008		0.3	0.17	28	<10	30	<0.5	<2	16.3	<0.5	3	4	5
YY08441		0.39	0.014		0.4	0.56	59	<10	50	<0.5	<2	14.0	1.3	13	10	40
YY08442		0.40	0.037		2.7	0.52	133	<10	80	<0.5	<2	7.4	1.8	11	9	64
YY08443		0.42	0.009		0.8	0.24	108	<10	100	<0.5	<2	0.62	0.5	3	4	47
YY08444		0.41	0.036		3.5	0.66	144	<10	120	<0.5	<2	0.34	1.3	7	15	74
YY08445		0.39	0.007		0.9	0.33	83	<10	160	<0.5	<2	0.08	<0.5	2	7	45
YY08446		0.36	0.006		0.7	0.16	19	<10	120	<0.5	<2	0.08	1.0	9	5	58
YY08447		0.43	0.017		0.9	0.15	214	<10	80	<0.5	<2	0.15	1.3	10	4	57
YY08448		0.42	0.014		0.8	0.15	162	<10	130	<0.5	<2	0.17	0.9	11	4	76
YY08449		0.31	0.008		1.1	0.33	85	<10	150	<0.5	<2	0.28	0.7	12	6	76
YY08450		0.38	0.009		0.7	0.31	107	<10	150	<0.5	<2	0.15	0.7	10	8	58
YY08451		0.29	0.015		0.7	0.44	48	<10	110	<0.5	<2	1.40	1.0	5	8	23
YY08452		0.28	0.013		1.0	0.60	58	<10	140	<0.5	<2	5.20	2.7	7	12	23
YY08453		0.39	0.018		2.0	0.36	44	<10	40	<0.5	<2	10.4	1.0	5	10	12





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Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm
YY08414		3.10	<10	<1	0.04	10	1.48	366	4	0.02	29	1100	59	0.04	10	2
YY08415		3.42	<10	<1	0.03	10	1.00	676	5	0.01	47	1000	76	0.03	7	2
YY08416		4.05	<10	<1	0.05	10	2.59	969	4	0.01	67	1050	87	0.04	11	4
YY08417		3.92	<10	<1	0.03	10	0.44	773	3	0.01	33	1000	59	0.08	7	1
YY08418		2.07	<10	<1	0.04	10	3.59	749	3	0.01	29	820	26	0.05	4	1
YY08419		1.82	<10	<1	0.04	10	1.28	240	6	0.01	31	750	31	0.07	5	1
YY08420		1.68	<10	<1	0.03	10	5.82	451	4	0.01	41	1110	41	0.03	8	1
YY08421		1.62	<10	<1	0.02	10	5.47	311	3	0.01	32	600	32	0.01	6	1
YY08422		2.38	<10	<1	0.05	10	4.95	459	8	0.01	39	590	103	0.10	12	1
YY08423		1.02	<10	<1	0.02	<10	2.06	448	2	0.03	13	460	9	0.04	3	<1
YY08424		4.64	<10	<1	0.03	10	2.71	2100	2	0.02	24	770	66	0.04	4	2
YY08425		2.41	<10	1	0.03	10	3.59	1125	1	0.02	20	660	57	0.05	3	1
YY08426		2.36	<10	<1	0.02	10	5.35	1005	1	0.02	14	580	67	0.02	2	1
YY08427		2.65	<10	<1	0.02	10	2.82	1145	1	0.03	13	730	78	0.05	<2	1
YY08428		2.42	<10	1	0.02	10	7.09	1175	1	0.02	15	500	180	0.04	2	1
YY08429		3.33	<10	<1	0.02	10	5.12	1645	1	0.02	16	590	210	0.03	6	1
YY08430		2.37	<10	<1	0.02	10	7.44	959	1	0.02	15	360	290	0.01	5	1
YY08431		1.72	<10	<1	0.03	10	6.79	703	1	0.02	17	420	118	0.03	3	1
YY08432		1.28	<10	<1	0.02	10	9.23	649	<1	0.02	11	330	108	0.02	2	1
YY08433		1.08	<10	<1	0.02	10	8.79	647	1	0.02	10	420	54	0.04	4	<1
YY08434		1.04	<10	<1	0.01	10	9.08	587	<1	0.02	14	280	40	0.02	13	1
YY08435		2.66	<10	<1	0.02	10	6.04	867	2	0.01	34	670	145	0.03	7	2
YY08436		1.43	<10	<1	0.02	10	4.89	382	<1	0.01	9	180	26	0.03	3	1
YY08437		1.49	<10	<1	0.03	10	4.61	754	<1	0.02	11	400	37	0.05	3	1
YY08438		1.27	<10	<1	0.01	<10	10.00	613	<1	0.02	10	270	34	0.02	2	1
YY08439		1.21	<10	<1	0.01	<10	8.67	681	<1	0.02	8	340	34	0.03	<2	1
YY08440		1.28	<10	<1	0.01	<10	9.27	893	<1	0.02	7	330	53	0.04	2	1
YY08441		2.32	<10	<1	0.02	10	8.11	767	1	0.02	67	740	14	0.05	<2	1
YY08442		2.63	<10	1	0.11	10	4.40	310	17	0.01	76	760	715	0.23	37	2
YY08443		1.45	<10	<1	0.05	20	0.33	77	11	0.01	30	510	67	0.10	10	2
YY08444		2.56	<10	<1	0.06	20	0.35	157	9	0.01	51	1060	423	0.11	14	3
YY08445		1.50	<10	<1	0.03	30	0.07	26	9	<0.01	15	670	80	0.03	4	2
YY08446		2.97	<10	<1	0.03	40	0.02	133	6	<0.01	68	970	21	0.02	3	1
YY08447		2.95	<10	<1	0.03	30	0.01	148	6	<0.01	55	1250	20	0.03	5	1
YY08448		3.06	<10	<1	0.04	30	0.01	177	8	<0.01	53	1580	31	0.04	6	1
YY08449		3.76	<10	<1	0.03	10	0.09	238	11	0.01	67	1420	39	0.06	8	1
YY08450		3.38	<10	1	0.05	20	0.07	187	12	0.01	66	1210	37	0.04	6	2
YY08451		2.32	<10	<1	0.03	10	0.59	805	8	0.02	31	690	64	0.06	7	1
YY08452		4.27	<10	1	0.03	10	2.83	1410	5	0.01	34	1120	164	0.09	6	1
YY08453		2.02	<10	<1	0.02	10	6.02	647	1	0.02	22	580	694	0.03	5	1



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Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Sr	Th	Ti	Tl	U	V	W	Zn
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		1	20	0.01	10	10	1	10	2
YY08414		37	<20	0.01	<10	<10	22	<10	143
YY08415		23	<20	0.01	<10	<10	21	<10	188
YY08416		37	<20	<0.01	<10	<10	23	<10	161
YY08417		13	<20	0.01	<10	<10	21	<10	196
YY08418		59	<20	0.01	<10	<10	16	<10	150
YY08419		70	<20	<0.01	<10	<10	13	<10	131
YY08420		75	<20	0.01	<10	<10	13	<10	181
YY08421		63	<20	0.01	<10	<10	11	<10	160
YY08422		75	<20	<0.01	<10	<10	15	<10	239
YY08423		26	<20	0.01	<10	<10	11	<10	96
YY08424		27	<20	0.02	<10	<10	30	<10	256
YY08425		30	<20	0.02	<10	<10	20	<10	154
YY08426		53	<20	0.02	<10	<10	18	<10	186
YY08427		33	<20	0.02	<10	<10	20	<10	217
YY08428		59	<20	0.01	<10	<10	18	<10	184
YY08429		38	<20	0.02	<10	<10	20	<10	187
YY08430		64	<20	0.02	<10	<10	14	<10	186
YY08431		51	<20	0.02	<10	<10	18	<10	118
YY08432		68	<20	0.01	<10	<10	11	<10	110
YY08433		68	<20	0.01	<10	<10	9	<10	124
YY08434		70	<20	0.01	<10	<10	9	<10	168
YY08435		46	<20	0.02	<10	<10	20	<10	137
YY08436		33	<20	<0.01	<10	<10	7	<10	32
YY08437		35	<20	0.01	<10	<10	9	<10	62
YY08438		70	<20	0.01	<10	<10	9	<10	41
YY08439		58	<20	0.01	<10	<10	9	<10	58
YY08440		62	<20	0.01	<10	<10	8	<10	65
YY08441		53	<20	0.01	<10	<10	17	<10	132
YY08442		132	<20	0.01	<10	<10	35	<10	236
YY08443		51	<20	<0.01	<10	<10	14	<10	55
YY08444		55	<20	0.01	<10	<10	30	<10	190
YY08445		48	<20	<0.01	<10	<10	20	<10	35
YY08446		20	<20	<0.01	<10	<10	12	<10	255
YY08447		44	<20	<0.01	<10	<10	10	<10	262
YY08448		51	<20	<0.01	<10	<10	12	<10	162
YY08449		43	<20	<0.01	<10	<10	18	<10	126
YY08450		58	<20	<0.01	<10	<10	21	<10	156
YY08451		24	<20	0.01	<10	<10	13	<10	292
YY08452		38	<20	0.01	<10	<10	25	<10	478
YY08453		52	<20	0.02	<10	<10	17	<10	183



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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Au Check ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm
		0.02	0.001	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
YY08454		0.35	0.023		0.3	0.50	76	<10	80	<0.5	<2	9.0	1.6	6	10	12
YY08455		0.36	1.650	1.680	2.6	0.34	790	10	50	<0.5	<2	12.9	3.0	6	8	26
YY08456		0.27	0.034		0.7	0.61	59	<10	60	<0.5	<2	3.42	0.7	6	15	15
YY08457		0.34	0.011		0.5	0.53	32	<10	50	<0.5	<2	9.5	0.9	6	13	11
YY08458		0.31	0.009		0.4	0.95	56	<10	70	0.6	<2	1.41	1.8	8	21	13
YY08459		0.30	0.014		0.3	0.65	45	<10	40	<0.5	<2	1.23	0.5	4	8	15
YY08460		0.35	0.027		0.8	0.30	138	<10	40	<0.5	<2	5.15	1.6	8	7	25
YY08461		0.36	0.009		1.6	0.67	75	<10	350	<0.5	<2	6.86	2.1	10	12	31
YY08462		0.35	0.011		1.1	0.59	72	<10	100	<0.5	<2	8.7	1.6	10	11	33
YY08463		0.44	0.005		0.6	1.17	51	<10	110	<0.5	<2	0.43	0.8	9	18	29
YY08464		0.41	0.014		0.8	0.32	87	<10	120	<0.5	<2	13.1	1.9	5	9	22
YY08465		0.31	0.008		0.4	0.69	43	<10	60	<0.5	<2	0.46	<0.5	4	6	27
YY08466		0.35	0.007		0.6	0.40	45	<10	480	<0.5	<2	1.43	0.6	7	10	47
YY08467		0.36	0.006		0.9	0.92	60	<10	430	<0.5	<2	1.44	0.9	11	19	36
YY08468		0.34	0.010		1.1	0.69	99	<10	130	<0.5	<2	6.63	1.0	9	20	30
YY08469		0.36	0.010		0.9	1.01	99	<10	110	0.5	<2	0.81	1.2	10	17	32
YY08470		0.33	0.022		1.4	0.58	116	<10	100	<0.5	<2	7.7	4.4	6	8	29
YY08471		0.34	0.012		1.6	0.72	77	<10	170	<0.5	<2	5.40	2.1	8	14	25
YY08472		0.38	0.015		2.8	0.36	126	<10	70	<0.5	<2	9.3	3.2	8	8	32
YY08473		0.33	0.041		0.9	0.58	101	<10	120	<0.5	<2	7.1	3.3	5	5	18
YY08474		0.31	0.007		1.0	0.51	62	<10	120	<0.5	<2	8.3	1.5	13	13	27
YY08475		0.32	0.014		4.3	0.61	169	<10	90	<0.5	<2	9.2	5.7	9	11	47
YY08476		0.38	0.066		8.3	0.31	593	<10	70	<0.5	<2	13.5	19.8	8	9	115
YY08477		0.33	0.013		2.5	0.74	81	<10	100	<0.5	<2	5.53	2.7	9	11	34
YY08478		0.27	0.018		5.0	0.50	150	<10	70	0.5	<2	6.10	5.2	11	10	54
YY08479		0.31	0.010		2.0	0.45	77	<10	60	<0.5	<2	7.7	4.3	9	8	25
YY08480		0.38	0.006		11.4	0.35	53	<10	50	<0.5	<2	13.1	9.7	6	7	53
YY08481		0.35	0.009		2.8	0.37	36	<10	40	<0.5	<2	13.0	2.7	7	6	30
YY08482		0.27	0.014		1.3	0.63	51	<10	80	<0.5	<2	2.00	1.8	9	12	33
YY08483		0.32	0.015		0.6	0.27	171	<10	220	<0.5	<2	0.06	<0.5	2	9	24
YY08484		0.45	0.006		0.6	0.92	27	<10	80	<0.5	<2	0.50	1.4	12	14	29
YY08485		0.35	0.006		0.6	0.52	54	<10	110	<0.5	2	1.76	1.0	8	10	47
YY08486		0.31	0.020		0.8	0.87	103	<10	120	<0.5	<2	1.25	1.2	8	13	30
YY08487		0.29	0.016		2.4	0.53	86	<10	80	<0.5	<2	3.64	1.9	5	9	29
YY08488		0.35	0.008		0.6	1.06	58	<10	110	<0.5	<2	3.46	1.4	14	17	29
YY08489		0.34	0.009		1.0	0.82	58	<10	180	<0.5	2	5.18	1.5	10	13	26
YY08490		0.29	0.006		0.8	0.86	47	<10	170	<0.5	<2	4.79	1.5	10	12	27
YY08491		0.34	0.003		0.5	1.01	42	<10	100	0.5	2	1.12	0.8	9	15	20
YY08492		0.38	0.008		1.8	0.79	111	<10	110	<0.5	2	5.10	2.2	8	12	23
YY08493		0.37	0.010		1.0	0.59	128	<10	130	<0.5	<2	7.6	2.6	9	10	21



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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
Units		%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
LOD		0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
YY08454		2.52	<10	<1	0.02	10	5.28	1120	2	0.01	28	710	47	0.06	7	1
YY08455		1.91	<10	<1	0.05	10	7.40	421	1	0.02	17	480	417	0.10	31	1
YY08456		2.09	<10	<1	0.03	10	2.04	492	2	0.01	26	470	65	0.05	7	1
YY08457		2.19	<10	1	0.02	10	5.54	808	1	0.02	20	580	100	0.04	4	1
YY08458		3.26	<10	<1	0.03	20	0.88	994	2	0.01	24	580	70	0.04	5	2
YY08459		1.51	<10	<1	0.03	10	0.60	222	1	0.03	16	740	47	0.05	5	1
YY08460		2.27	<10	<1	0.03	10	2.89	434	3	0.01	31	810	124	0.05	10	1
YY08461		4.69	<10	<1	0.03	10	3.79	1490	3	0.02	32	1600	188	0.10	10	1
YY08462		3.65	<10	<1	0.03	10	5.02	894	3	0.02	43	720	120	0.03	7	2
YY08463		3.89	<10	<1	0.04	20	0.59	541	3	0.01	30	950	72	0.04	4	2
YY08464		3.55	<10	<1	0.02	10	7.35	1080	3	0.02	28	570	92	0.02	8	2
YY08465		1.89	<10	1	0.02	10	0.16	323	2	0.04	13	790	25	0.04	3	1
YY08466		3.04	<10	<1	0.03	30	0.77	482	5	0.01	37	1040	30	0.05	7	2
YY08467		3.83	<10	1	0.04	20	0.91	673	4	0.01	42	1050	91	0.08	4	2
YY08468		4.71	<10	<1	0.03	10	3.92	1380	3	0.02	37	970	65	0.07	6	2
YY08469		4.83	<10	<1	0.04	20	0.56	984	4	0.01	35	1300	100	0.07	7	2
YY08470		3.42	<10	<1	0.03	10	4.43	953	2	0.02	19	800	264	0.06	7	1
YY08471		4.18	<10	1	0.03	10	3.01	1015	4	0.02	33	1190	240	0.10	8	1
YY08472		3.13	<10	<1	0.02	10	5.36	637	3	0.01	56	430	550	0.03	13	2
YY08473		4.18	<10	<1	0.02	10	3.72	1640	1	0.03	18	780	172	0.08	9	1
YY08474		6.14	<10	<1	0.03	10	4.51	1740	3	0.02	46	1180	161	0.08	8	2
YY08475		3.83	<10	<1	0.03	10	5.30	1200	3	0.02	31	1070	772	0.08	24	1
YY08476		5.10	<10	<1	0.03	10	7.35	1325	2	0.02	37	1010	937	0.10	78	2
YY08477		4.48	<10	<1	0.03	10	3.19	1085	4	0.02	32	1170	374	0.07	8	1
YY08478		4.41	<10	<1	0.04	10	3.47	835	4	0.01	42	1090	705	0.07	21	2
YY08479		3.36	<10	<1	0.03	10	4.23	961	2	0.01	32	870	269	0.08	7	1
YY08480		2.16	<10	<1	0.03	10	7.52	715	2	0.02	23	720	1385	0.07	31	1
YY08481		1.87	<10	<1	0.02	10	7.58	529	1	0.02	23	490	273	0.05	12	1
YY08482		2.80	<10	<1	0.05	10	1.18	450	5	0.03	34	960	145	0.06	8	2
YY08483		2.44	<10	<1	0.12	20	0.05	53	15	0.02	25	770	27	0.25	10	<1
YY08484		3.03	<10	<1	0.03	20	0.66	840	3	0.01	37	1010	69	0.02	3	3
YY08485		2.76	<10	<1	0.04	20	0.99	356	5	0.01	39	1040	39	0.04	6	2
YY08486		3.36	<10	<1	0.03	10	0.69	824	3	0.02	33	1120	69	0.06	7	2
YY08487		3.21	<10	<1	0.03	10	2.01	557	5	0.01	26	960	300	0.06	9	1
YY08488		3.95	<10	<1	0.04	10	2.24	1025	3	0.01	39	990	76	0.03	3	2
YY08489		3.83	<10	<1	0.04	10	3.14	805	3	0.01	33	950	85	0.06	4	2
YY08490		4.30	<10	<1	0.03	10	2.59	1390	2	0.02	32	1500	86	0.09	3	1
YY08491		3.55	<10	<1	0.03	10	0.82	703	2	0.01	30	1100	53	0.06	2	2
YY08492		4.77	<10	<1	0.03	10	2.81	1410	3	0.02	30	1510	320	0.09	8	1
YY08493		4.11	<10	<1	0.03	10	4.04	1710	3	0.02	33	1360	134	0.07	6	1



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Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Sr ppm 1	Th ppm 20	Ti % 0.01	Tl ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
YY08454		42	<20	0.01	<10	<10	18	<10	311
YY08455		58	<20	0.01	<10	<10	14	<10	488
YY08456		19	<20	0.02	<10	<10	22	<10	90
YY08457		47	<20	0.02	<10	<10	18	<10	137
YY08458		12	<20	0.02	<10	<10	31	<10	236
YY08459		13	<20	0.02	<10	<10	17	<10	88
YY08460		34	<20	0.01	<10	<10	14	<10	214
YY08461		52	<20	0.01	<10	<10	21	<10	382
YY08462		58	<20	0.01	<10	<10	17	<10	293
YY08463		12	<20	0.01	<10	<10	25	<10	191
YY08464		79	<20	0.01	<10	<10	17	<10	365
YY08465		14	<20	0.04	<10	<10	30	<10	71
YY08466		37	<20	0.01	<10	<10	21	<10	131
YY08467		24	<20	0.01	<10	<10	26	<10	160
YY08468		45	<20	0.01	<10	<10	26	<10	129
YY08469		16	<20	0.02	<10	<10	30	<10	283
YY08470		43	<20	0.01	<10	<10	17	<10	688
YY08471		38	<20	0.01	<10	<10	25	<10	389
YY08472		49	<20	<0.01	<10	<10	16	<10	681
YY08473		39	<20	0.01	<10	<10	13	<10	491
YY08474		34	<20	0.01	<10	<10	19	<10	192
YY08475		45	<20	0.01	<10	<10	19	<10	1170
YY08476		63	<20	<0.01	<10	<10	14	<10	2740
YY08477		28	<20	0.01	<10	<10	22	<10	491
YY08478		30	<20	0.01	<10	<10	20	<10	1090
YY08479		44	<20	0.01	<10	<10	16	<10	854
YY08480		70	<20	<0.01	<10	<10	12	<10	1910
YY08481		62	<20	<0.01	<10	<10	11	<10	540
YY08482		21	<20	0.01	<10	<10	22	<10	311
YY08483		54	<20	0.01	<10	<10	29	<10	57
YY08484		14	<20	<0.01	<10	<10	20	<10	165
YY08485		53	<20	0.01	<10	<10	17	<10	120
YY08486		18	<20	0.01	<10	<10	22	<10	172
YY08487		30	<20	0.01	<10	<10	21	<10	332
YY08488		36	<20	0.01	<10	<10	23	<10	187
YY08489		36	<20	0.01	<10	<10	21	<10	228
YY08490		33	<20	0.01	<10	<10	21	<10	222
YY08491		12	<20	0.01	<10	<10	24	<10	153
YY08492		29	<20	0.01	<10	<10	21	<10	380
YY08493		53	<20	0.01	<10	<10	17	<10	384



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Project: GROUNDHOG

**CERTIFICATE OF ANALYSIS WH18199709**

Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Au ppm	Au Check ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm
		0.02	0.001	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
YY08494		0.33	0.017		0.9	0.82	166	<10	110	<0.5	2	2.50	1.8	8	11	21
YY08495		0.33	0.023		3.4	0.53	188	<10	80	<0.5	<2	7.7	5.0	10	11	34
YY08496		0.25	0.017		1.1	0.76	153	<10	110	0.5	<2	2.99	2.7	12	14	43
YY08497		0.36	0.012		1.6	0.37	85	<10	70	<0.5	2	10.9	4.8	9	8	25
YY08498		0.43	0.012		1.0	0.39	450	<10	110	0.5	3	10.6	1.2	10	13	43
YY08499		0.38	0.011		0.8	0.62	108	<10	180	0.5	2	5.09	1.2	6	9	78
YY08500		0.36	0.023		0.6	0.42	92	<10	120	<0.5	<2	7.8	0.5	7	7	35



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 Account: MTT

**CERTIFICATE OF ANALYSIS WH18199709**

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm
		0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
YY08494		4.34	<10	<1	0.03	10	1.03	1170	2	0.02	28	1700	145	0.10	6	1
YY08495		3.89	<10	<1	0.04	10	4.14	1055	3	0.02	40	1330	544	0.08	15	1
YY08496		3.65	<10	<1	0.03	10	1.39	969	2	0.03	36	1420	152	0.10	8	2
YY08497		3.85	<10	<1	0.04	10	5.89	1120	2	0.02	46	850	326	0.07	11	1
YY08498		2.57	<10	<1	0.04	10	6.00	387	3	0.02	56	620	45	0.06	11	3
YY08499		2.75	<10	<1	0.06	10	2.76	381	11	0.01	48	970	45	0.13	14	1
YY08500		2.72	<10	<1	0.06	10	4.45	329	3	0.02	35	450	32	0.10	10	1

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



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Project: GROUNDHOG

<b>CERTIFICATE OF ANALYSIS WH18199709</b>
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	Method Analyte Units LOD	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
YY08494		25	<20	0.01	<10	<10	21	<10	284
YY08495		42	<20	0.01	<10	<10	17	<10	734
YY08496		28	<20	0.01	<10	<10	21	<10	372
YY08497		51	<20	0.01	<10	<10	12	<10	529
YY08498		62	<20	0.01	<10	<10	20	<10	156
YY08499		53	<20	<0.01	<10	<10	25	<10	69
YY08500		42	<20	<0.01	<10	<10	17	<10	42





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Project: GROUNDHOG

**CERTIFICATE OF ANALYSIS WH18199709**

**CERTIFICATE COMMENTS**

**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-ICP41



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**Finalized Date: 3- OCT- 2018**  
**Account: MTT**

**CERTIFICATE WH18218887**

Project: GROUNDHOG

This report is for 11 Pulp samples submitted to our lab in Whitehorse, YT, Canada on 4- SEP- 2018.

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
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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Total # Pages: 2 (A)  
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Finalized Date: 3- OCT- 2018  
Account: MTT

Project: GROUNDHOG

**CERTIFICATE OF ANALYSIS WH18218887**

Sample Description	Method Analyte Units LOD	Au- ICP21 Au ppm 0.001
K291751		<0.001
K291752		0.001
K291753		<0.001
K291754		0.004
K291755		0.004
K291756		0.010
K291757		0.012
K291758		0.154
K291759		0.239
K291760		0.321
K291761		0.004



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Project: GROUNDHOG

**CERTIFICATE OF ANALYSIS WH18218887**

**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. Au- ICP21 FND- 02</p>
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**Account: MTT**

**CERTIFICATE WH18199686**

Project: GROUNDHOG

This report is for 11 Rock samples submitted to our lab in Whitehorse, YT, Canada on 15- AUG- 2018.

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- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
Ag- OG46	Ore Grade Ag - Aqua Regia	
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Pb- OG46	Ore Grade Pb - Aqua Regia	
Zn- OG46	Ore Grade Zn - Aqua Regia	
Ag- GRA21	Ag 30g FA- GRAV finish	WST- SIM
Pb- OG62	Ore Grade Pb - Four Acid	
ME- OG62	Ore Grade Elements - Four Acid	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: GROUNDHOG

<b>CERTIFICATE OF ANALYSIS WH18199686</b>
---

Sample Description	Method Analyte Units LOD	WEI- 21 Recvd Wt. kg	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %	ME- ICP41 Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
K291751		0.80	4.3	0.07	7	<10	150	<0.5	3	3.39	<0.5	<1	5	12	0.73	<10
K291752		1.46	<0.2	0.03	8	<10	40	<0.5	2	4.16	<0.5	<1	7	2	0.41	<10
K291753		1.35	4.5	0.05	90	<10	40	<0.5	2	0.17	3.4	1	19	34	0.34	<10
K291754		0.79	14.9	0.02	32	<10	10	<0.5	<2	7.6	67.1	1	6	84	0.77	<10
K291755		1.65	<0.2	0.02	11	<10	90	<0.5	<2	20.1	7.3	<1	1	5	2.23	<10
K291756		1.21	>100	0.03	37	<10	60	<0.5	3	7.7	757	<1	2	227	1.05	<10
K291757		1.18	>100	0.01	76	<10	10	<0.5	3	0.19	11.3	<1	11	1015	0.46	<10
K291758		0.68	22.6	0.12	132	<10	30	<0.5	<2	17.2	23.9	4	2	21	2.41	<10
K291759		0.55	4.1	0.08	267	<10	20	<0.5	2	1.10	0.6	12	5	26	9.68	<10
K291760		1.17	1.6	1.26	3610	<10	50	3.9	2	0.40	5.6	97	15	572	37.7	<10
K291761		0.64	44.0	0.06	67	<10	10	<0.5	<2	9.3	9.2	<1	4	1565	0.66	<10

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



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Project: GROUNDHOG

**CERTIFICATE OF ANALYSIS WH18199686**

Sample Description	Method Analyte Units LOD	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
K291751		<1	0.02	<10	1.93	398	<1	0.01	1	140	2140	0.06	7	1	277	<20
K291752		<1	0.01	<10	2.42	291	1	0.01	<1	20	5	0.01	<2	<1	60	<20
K291753		<1	0.02	<10	0.09	43	1	<0.01	3	10	3600	0.05	61	<1	3	<20
K291754		1	0.01	<10	4.36	519	1	0.01	2	10	4860	0.12	22	<1	29	<20
K291755		1	0.01	<10	11.25	1185	1	0.03	4	20	70	0.04	<2	<1	127	<20
K291756		3	0.01	<10	4.65	495	1	0.01	1	10	>10000	2.20	606	<1	156	<20
K291757		<1	<0.01	<10	0.09	67	<1	<0.01	2	10	>10000	0.27	518	<1	5	<20
K291758		1	0.02	10	10.05	714	1	0.01	19	170	6950	0.09	57	1	95	<20
K291759		<1	0.02	10	0.54	172	2	<0.01	22	200	199	0.21	31	1	9	<20
K291760		1	0.14	10	0.16	620	30	0.01	1740	3250	385	0.26	292	1	41	<20
K291761		<1	0.04	10	5.43	1065	1	0.01	4	90	8030	0.19	2460	<1	39	<20



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 Account: MTT

Project: GROUNDHOG

**CERTIFICATE OF ANALYSIS WH18199686**

Sample Description	Method Analyte Units LOD	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Ag- OG46	Pb- OG46	Zn- OG46	Ag- GRA21	Pb- OG62
		Ti	Tl	U	V	W	Zn	Ag	Pb	Zn	Ag	Pb
		%	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	%
	0.01	10	10	1	10	2	1	0.001	0.001	5	0.001	
K291751	<0.01	<10	<10	3	<10	15				<5	0.207	
K291752	<0.01	<10	<10	2	<10	34				<5	0.001	
K291753	<0.01	<10	<10	1	<10	335				<5	0.350	
K291754	<0.01	<10	<10	1	<10	8640				13	0.465	
K291755	<0.01	<10	<10	6	<10	1035				<5	0.008	
K291756	<0.01	<10	<10	3	<10	>10000	607	19.75	10.60	577	19.05	
K291757	<0.01	<10	<10	<1	<10	1690	188	1.715		174	1.680	
K291758	<0.01	<10	<10	8	<10	3100				21	0.702	
K291759	<0.01	<10	<10	2	<10	97				<5	0.020	
K291760	<0.01	<10	20	292	<10	2830				<5	0.042	
K291761	<0.01	<10	<10	2	<10	599				40	0.766	

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





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Project: GROUNDHOG

**CERTIFICATE OF ANALYSIS WH18199686**

<b>CERTIFICATE COMMENTS</b>									
	<b>LABORATORY ADDRESSES</b>								
Applies to Method:	<p>Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.</p> <table border="0"> <tr> <td>CRU- 31</td> <td>CRU- QC</td> <td>LOG- 21</td> <td>PUL- 31</td> </tr> <tr> <td>PUL- QC</td> <td>SPL- 21</td> <td>WEI- 21</td> <td></td> </tr> </table>	CRU- 31	CRU- QC	LOG- 21	PUL- 31	PUL- QC	SPL- 21	WEI- 21	
CRU- 31	CRU- QC	LOG- 21	PUL- 31						
PUL- QC	SPL- 21	WEI- 21							
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table border="0"> <tr> <td>Ag- GRA21</td> <td>Ag- OG46</td> <td>ME- ICP41</td> <td>ME- OG46</td> </tr> <tr> <td>ME- OG62</td> <td>Pb- OG46</td> <td>Pb- OG62</td> <td>Zn- OG46</td> </tr> </table>	Ag- GRA21	Ag- OG46	ME- ICP41	ME- OG46	ME- OG62	Pb- OG46	Pb- OG62	Zn- OG46
Ag- GRA21	Ag- OG46	ME- ICP41	ME- OG46						
ME- OG62	Pb- OG46	Pb- OG62	Zn- OG46						



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**Account: MTT**

**CERTIFICATE WH18199700**

Project: GROUNDHOG

This report is for 206 Soil samples submitted to our lab in Whitehorse, YT, Canada on 15- AUG- 2018.

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	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

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

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

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: GROUNDHOG

**CERTIFICATE OF ANALYSIS WH18199700**

Sample Description	Method	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOD		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
YY06835		0.47	0.004	1.0	0.21	48	<10	140	<0.5	<2	4.85	2.3	9	5	54	2.48
YY06836		0.35	0.009	1.6	0.30	86	<10	160	<0.5	2	1.24	1.5	8	7	55	3.66
YY06837		0.41	0.002	1.5	0.38	32	<10	460	0.5	<2	7.8	1.2	7	6	31	2.79
YY06838		0.46	0.002	0.7	0.23	24	<10	90	0.5	3	5.41	1.3	10	5	55	3.04
YY06839		0.40	<0.001	0.6	0.24	18	<10	70	<0.5	<2	5.62	0.9	6	5	38	2.41
YY06840		0.45	<0.001	0.8	0.25	27	<10	80	0.5	<2	4.66	1.3	9	6	60	3.21
YY06841		0.51	0.009	1.0	0.22	152	<10	90	<0.5	<2	0.67	1.2	15	5	65	3.78
YY06842		0.46	0.007	1.2	0.34	74	<10	90	<0.5	2	0.64	1.4	10	6	59	3.33
YY06843		0.44	0.012	0.6	1.02	58	<10	50	0.5	<2	0.11	1.3	21	17	103	5.43
YY06844		0.36	0.012	1.2	0.97	114	<10	100	<0.5	<2	0.26	5.6	43	47	133	6.89
YY06845		0.30	0.006	2.6	0.97	122	<10	100	0.8	<2	0.32	7.0	16	13	63	6.03
YY06846		0.41	0.006	1.0	0.96	70	<10	90	<0.5	<2	3.73	2.4	15	17	57	4.33
YY06847		0.44	0.001	0.2	1.38	29	<10	120	0.5	<2	0.23	0.9	13	23	31	4.98
YY06848		0.39	0.004	0.8	1.13	55	<10	110	0.5	3	2.87	1.3	14	22	37	3.63
YY06849		0.38	0.011	1.5	0.79	98	<10	110	<0.5	3	6.54	3.1	12	12	62	4.49
YY06850		0.40	<0.001	0.4	1.19	38	<10	90	0.5	<2	0.37	0.7	10	22	25	3.63
YY06851		0.49	0.001	0.5	0.76	33	<10	80	<0.5	<2	3.18	1.3	13	14	45	3.34
YY06852		0.39	0.003	1.3	0.48	71	<10	80	<0.5	<2	6.48	3.3	8	11	41	2.78
YY06853		0.37	0.015	4.8	0.43	154	<10	130	<0.5	2	10.0	7.1	7	9	49	3.77
YY06854		0.38	0.002	36.5	1.08	53	<10	70	<0.5	<2	0.21	1.6	14	23	33	3.81
YY06855		0.44	0.011	1.3	0.97	78	<10	130	0.5	2	0.35	2.1	10	21	35	4.77
YY06856		0.32	<0.001	<0.2	0.51	52	<10	80	0.6	<2	3.21	2.2	10	11	15	2.18
YY06857		0.40	0.002	0.2	0.87	32	<10	70	0.5	2	6.87	0.9	11	16	18	2.98
YY06858		0.39	0.001	0.4	0.59	36	<10	90	<0.5	<2	12.6	1.1	6	10	14	2.55
YY06859		0.37	0.001	0.2	1.13	27	<10	90	<0.5	<2	0.30	1.2	12	17	25	3.99
YY06860		0.49	0.024	1.7	0.44	180	<10	110	<0.5	<2	3.26	3.0	8	8	45	3.30
YY06861		0.37	0.007	1.2	0.48	81	<10	130	<0.5	<2	4.39	2.1	6	9	42	2.79
YY06862		0.49	0.008	1.8	0.39	79	<10	210	<0.5	<2	2.55	1.8	6	7	52	2.86
YY06863		0.49	0.004	1.4	0.35	63	<10	200	0.5	2	2.63	2.5	11	5	52	3.02
YY06864		0.43	0.003	1.0	0.34	49	<10	350	<0.5	<2	3.52	1.9	11	5	51	3.04
YY06865		0.32	0.003	1.0	0.40	49	<10	470	0.5	<2	4.37	1.8	10	7	45	3.08
YY06866		0.40	0.004	1.3	0.23	59	<10	140	<0.5	<2	4.78	3.2	9	6	57	2.69
YY06867		0.46	0.002	1.3	0.27	66	<10	160	<0.5	<2	4.98	2.4	11	6	49	2.86
YY06868		0.48	0.008	1.2	0.33	48	<10	110	<0.5	<2	1.87	2.0	14	7	70	3.68
YY06869		0.37	0.168	0.8	0.53	129	<10	150	<0.5	2	4.16	0.6	6	8	39	2.72
YY06870		0.27	0.001	0.5	0.44	47	<10	110	<0.5	<2	8.2	2.1	5	8	34	2.92
YY06871		0.32	0.004	0.9	0.44	61	<10	80	<0.5	<2	4.83	1.1	7	12	33	2.41
YY06872		0.32	0.027	1.9	0.93	316	<10	90	0.5	<2	3.85	5.1	12	14	87	3.69
YY06873		0.32	0.012	1.0	0.64	185	<10	110	<0.5	<2	7.3	1.8	10	10	22	6.45
YY06874		0.32	0.005	1.6	0.72	52	<10	60	<0.5	<2	1.55	1.0	13	11	29	3.19



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Sample Description	Method Analyte Units LOD	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
YY06835		<10	<1	0.05	20	2.39	370	15	<0.01	68	1780	69	0.03	14	2	140
YY06836		<10	<1	0.05	30	0.62	238	14	<0.01	81	1240	46	0.02	17	2	30
YY06837		<10	<1	0.03	20	4.43	532	9	<0.01	52	1130	118	0.01	12	2	81
YY06838		<10	<1	0.05	20	3.06	498	11	<0.01	65	1320	42	0.01	3	2	93
YY06839		<10	<1	0.04	20	3.14	392	10	0.01	57	1310	38	0.03	4	1	93
YY06840		<10	<1	0.05	20	2.60	344	14	<0.01	79	1660	44	0.02	7	2	154
YY06841		<10	<1	0.05	30	0.25	345	7	<0.01	70	1490	31	0.03	5	2	32
YY06842		<10	<1	0.03	20	0.25	296	7	<0.01	62	1240	57	0.02	8	2	25
YY06843		<10	<1	0.03	30	0.41	565	9	<0.01	111	1100	89	0.01	5	2	10
YY06844		<10	<1	0.03	40	0.65	1395	10	<0.01	193	1640	301	0.01	9	10	16
YY06845		<10	<1	0.04	30	0.21	1570	6	<0.01	98	1280	876	0.03	12	3	13
YY06846		<10	<1	0.03	20	2.53	814	4	<0.01	57	960	241	0.02	2	3	33
YY06847		<10	<1	0.04	30	0.57	1325	3	<0.01	44	960	57	<0.01	2	3	12
YY06848		<10	<1	0.04	20	1.99	702	4	<0.01	50	990	132	0.01	3	3	40
YY06849		<10	<1	0.03	30	3.97	1330	4	<0.01	67	980	280	0.02	5	4	38
YY06850		<10	<1	0.05	30	0.51	436	4	<0.01	38	870	73	0.02	4	3	19
YY06851		<10	<1	0.05	30	1.65	488	6	<0.01	54	1410	61	0.02	3	3	68
YY06852		<10	<1	0.03	20	3.80	558	3	<0.01	32	1100	181	0.04	6	2	60
YY06853		<10	<1	0.03	10	5.67	1190	6	0.01	31	660	969	0.04	20	2	116
YY06854		<10	<1	0.04	20	0.41	805	4	<0.01	47	1130	134	0.01	25	1	14
YY06855		<10	<1	0.03	30	0.38	1670	3	<0.01	52	950	129	0.01	5	4	15
YY06856		<10	<1	0.03	10	1.83	690	2	<0.01	39	720	43	0.03	12	2	22
YY06857		<10	<1	0.04	10	4.25	756	2	<0.01	32	900	53	0.03	<2	2	42
YY06858		<10	<1	0.02	10	7.42	1250	2	0.01	24	770	69	0.02	3	1	73
YY06859		<10	<1	0.04	20	0.49	877	3	<0.01	30	1300	41	0.02	2	2	11
YY06860		<10	<1	0.04	20	1.73	735	10	<0.01	52	1460	188	0.03	13	2	42
YY06861		<10	<1	0.03	20	2.36	487	8	<0.01	40	1010	182	0.05	9	2	56
YY06862		<10	<1	0.04	20	1.15	281	12	<0.01	81	1370	229	0.06	16	1	63
YY06863		<10	<1	0.05	20	1.28	458	14	<0.01	105	1660	106	0.03	15	2	76
YY06864		<10	<1	0.04	20	1.84	430	12	<0.01	68	1470	80	0.02	13	2	76
YY06865		<10	<1	0.05	20	2.30	483	12	<0.01	65	1580	82	0.02	11	2	86
YY06866		<10	<1	0.06	20	2.42	401	17	<0.01	83	1710	123	0.02	16	2	134
YY06867		<10	<1	0.07	20	2.43	429	16	<0.01	81	1920	78	0.02	13	2	127
YY06868		<10	<1	0.05	30	0.86	343	9	<0.01	75	1670	69	0.07	11	2	69
YY06869		<10	<1	0.05	10	2.32	346	5	0.01	29	550	65	0.07	10	1	25
YY06870		<10	<1	0.03	10	4.49	705	4	0.01	27	630	91	0.07	5	1	44
YY06871		<10	<1	0.03	20	2.87	344	6	0.01	38	710	94	0.05	6	1	34
YY06872		<10	<1	0.03	10	2.05	810	2	0.02	38	1230	258	0.06	14	2	34
YY06873		<10	<1	0.03	10	4.06	2020	4	0.02	36	1070	135	0.04	8	2	38
YY06874		<10	<1	0.05	20	1.12	734	5	0.01	47	980	262	0.01	5	2	17



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Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Ti	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm
LOD	20	0.01	10	10	1	10	2
YY06835	<20	<0.01	<10	<10	24	<10	365
YY06836	<20	0.01	<10	<10	20	<10	522
YY06837	<20	<0.01	<10	<10	18	<10	272
YY06838	<20	<0.01	<10	<10	14	<10	189
YY06839	<20	<0.01	<10	<10	14	<10	146
YY06840	<20	<0.01	<10	<10	16	<10	196
YY06841	<20	<0.01	<10	<10	12	<10	196
YY06842	<20	<0.01	<10	<10	14	<10	235
YY06843	<20	0.01	<10	<10	24	<10	331
YY06844	<20	<0.01	<10	<10	48	<10	842
YY06845	<20	<0.01	<10	<10	23	<10	1025
YY06846	<20	0.01	<10	<10	28	<10	383
YY06847	<20	0.02	<10	<10	29	<10	163
YY06848	<20	0.02	<10	<10	30	<10	247
YY06849	<20	0.01	<10	<10	22	<10	445
YY06850	<20	0.01	<10	<10	29	<10	223
YY06851	<20	0.01	<10	<10	24	<10	225
YY06852	<20	0.01	<10	<10	20	<10	515
YY06853	<20	<0.01	<10	<10	21	<10	1370
YY06854	<20	0.01	<10	<10	28	<10	248
YY06855	<20	0.02	<10	<10	32	<10	259
YY06856	<20	0.01	<10	<10	13	<10	515
YY06857	<20	0.01	<10	<10	24	<10	195
YY06858	<20	0.01	<10	<10	18	<10	261
YY06859	<20	0.01	<10	<10	21	<10	147
YY06860	<20	<0.01	<10	<10	21	<10	544
YY06861	<20	0.01	<10	<10	22	<10	346
YY06862	<20	0.01	<10	<10	23	<10	407
YY06863	<20	<0.01	<10	<10	25	<10	467
YY06864	<20	<0.01	<10	<10	22	<10	353
YY06865	<20	<0.01	<10	<10	26	<10	345
YY06866	<20	<0.01	<10	<10	25	<10	528
YY06867	<20	<0.01	<10	<10	28	<10	414
YY06868	<20	<0.01	<10	<10	17	<10	329
YY06869	<20	0.01	<10	<10	23	<10	61
YY06870	<20	0.01	<10	<10	18	<10	209
YY06871	<20	0.01	<10	<10	20	<10	213
YY06872	<20	0.01	<10	<10	22	<10	518
YY06873	<20	0.01	<10	<10	22	<10	326
YY06874	<20	0.01	<10	<10	19	<10	230



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Sample Description	Method Analyte Units LOD	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
YY06875		0.30	0.008	1.0	0.89	92	<10	80	<0.5	<2	3.04	1.1	9	16	29	3.89
YY06876		0.40	0.009	0.9	0.66	72	<10	70	<0.5	<2	5.94	1.3	10	12	29	3.21
YY06877		0.29	0.003	0.8	0.89	59	<10	100	<0.5	<2	2.74	1.5	14	14	30	4.59
YY06878		0.38	0.001	0.4	1.10	35	<10	100	<0.5	<2	1.23	0.8	6	13	19	2.96
YY06879		0.35	0.003	0.7	1.01	38	<10	110	<0.5	2	2.46	1.5	15	14	34	4.54
YY06880		0.40	0.014	1.4	0.33	91	<10	90	<0.5	<2	7.1	1.4	5	7	27	2.94
YY06881		0.39	0.017	1.4	0.94	158	<10	120	0.6	2	2.46	4.9	13	34	44	4.33
YY06882		0.48	0.010	0.4	1.09	47	<10	80	<0.5	2	0.72	0.9	14	18	34	3.54
YY06883		0.43	0.008	2.4	0.89	49	<10	90	<0.5	2	3.49	2.7	10	14	35	3.29
YY06884		0.52	0.005	0.6	0.54	47	<10	210	<0.5	<2	5.39	0.7	8	11	31	2.75
YY06885		0.45	0.006	0.4	0.37	107	<10	80	<0.5	2	6.35	1.8	6	10	27	2.62
YY06886		0.41	0.007	0.8	0.58	113	<10	130	<0.5	<2	9.7	2.0	10	13	27	4.63
YY06887		0.43	0.031	2.7	0.44	234	<10	90	<0.5	2	7.6	5.8	12	8	55	4.36
YY06888		0.46	0.005	0.9	0.84	60	<10	110	<0.5	2	5.21	1.6	11	13	27	3.81
YY06889		0.44	0.004	0.8	0.88	75	<10	130	<0.5	<2	3.55	1.3	11	14	25	3.92
YY06890		0.29	0.007	1.2	0.70	49	<10	130	<0.5	<2	6.30	2.6	7	10	20	3.06
YY06891		0.41	0.102	3.1	0.47	392	<10	80	<0.5	2	11.7	5.9	10	8	41	5.02
YY06892		0.48	0.018	2.8	0.43	213	<10	70	<0.5	<2	8.0	2.6	8	9	34	3.77
YY06893		0.45	0.017	2.0	0.47	182	<10	70	<0.5	2	9.5	2.4	7	9	23	3.08
YY06894		0.43	0.069	2.7	0.46	853	<10	70	<0.5	<2	9.0	4.3	16	9	34	4.73
YY06895		0.37	0.023	2.5	0.53	262	<10	90	0.5	<2	6.54	2.0	16	15	35	4.24
YY06896		0.36	0.002	1.2	0.60	30	<10	90	<0.5	<2	6.53	1.7	6	9	18	3.35
YY06897		0.44	0.002	2.0	0.42	37	<10	50	<0.5	3	9.7	1.3	7	8	22	2.66
YY06898		0.41	<0.001	1.0	0.51	32	<10	60	<0.5	<2	10.8	1.7	6	8	22	2.13
YY06899		0.48	0.010	0.9	1.26	107	<10	120	0.9	<2	9.4	2.2	8	9	170	2.92
YY06900		0.44	0.006	0.6	0.34	166	<10	250	<0.5	<2	0.07	<0.5	3	11	34	2.91
YY06901		0.58	0.003	0.7	0.14	84	<10	240	<0.5	<2	0.08	<0.5	4	4	30	2.98
YY06902		0.40	0.001	0.4	0.26	66	<10	90	<0.5	<2	0.10	<0.5	4	6	39	2.77
YY06903		0.36	0.004	1.5	0.85	49	<10	90	0.5	<2	3.64	1.8	10	13	38	3.58
YY06904		0.36	0.003	1.7	0.65	37	<10	80	<0.5	<2	7.1	2.4	7	10	25	2.25
YY06905		0.38	0.006	2.2	0.25	60	<10	30	<0.5	2	15.6	1.9	5	5	17	1.49
YY06906		0.37	0.004	0.7	0.45	39	<10	60	<0.5	2	10.0	1.0	7	9	17	2.37
YY06907		0.44	0.006	0.7	0.33	65	<10	60	<0.5	<2	11.6	0.8	8	7	15	3.38
YY06908		0.39	0.041	1.5	0.27	412	<10	70	<0.5	<2	9.2	1.5	7	4	16	2.20
YY06909		0.37	0.018	1.0	0.45	216	<10	80	<0.5	<2	10.6	1.7	6	8	14	2.51
YY06910		0.37	0.033	1.4	0.46	266	<10	70	<0.5	2	9.9	1.1	7	10	14	2.43
YY06911		0.40	0.013	1.4	0.46	137	<10	1070	<0.5	2	11.6	1.5	7	9	16	2.84
YY06912		0.40	0.010	1.0	0.59	112	<10	290	<0.5	<2	8.8	1.3	7	13	19	3.10
YY06913		0.44	0.009	1.0	0.64	103	<10	150	<0.5	<2	7.5	1.3	8	12	20	3.55
YY06914		0.43	0.031	1.6	0.67	143	<10	140	<0.5	2	6.83	1.2	8	11	33	4.19



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**CERTIFICATE OF ANALYSIS WH18199700**

Sample Description	Method Analyte Units LOD	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
YY06875		<10	<1	0.04	10	1.97	724	3	0.01	36	1200	95	0.03	4	2	24
YY06876		<10	1	0.03	10	3.50	690	3	0.01	36	1100	123	0.02	5	2	53
YY06877		<10	<1	0.04	20	1.90	1355	4	0.01	47	820	77	0.02	3	3	23
YY06878		<10	<1	0.04	10	0.84	392	2	0.01	25	1120	42	0.05	2	2	14
YY06879		<10	<1	0.04	20	1.77	1190	4	0.01	46	970	78	0.02	3	2	24
YY06880		<10	<1	0.03	10	3.93	874	5	0.01	25	870	193	0.06	8	1	47
YY06881		<10	<1	0.04	20	1.75	1035	3	0.01	63	910	195	0.02	8	5	23
YY06882		<10	<1	0.04	20	0.86	766	3	0.01	42	860	68	0.01	3	4	16
YY06883		<10	<1	0.05	20	2.20	640	3	0.01	37	900	483	0.01	5	2	34
YY06884		<10	1	0.04	10	3.14	434	4	0.01	34	740	55	0.02	3	2	50
YY06885		<10	<1	0.02	10	3.73	502	3	0.01	43	560	39	0.01	7	2	68
YY06886		<10	<1	0.03	10	5.46	1520	3	0.02	41	770	108	0.01	7	3	54
YY06887		<10	<1	0.03	10	4.21	922	3	0.01	43	1530	421	0.03	31	2	62
YY06888		<10	<1	0.04	10	3.25	856	3	0.01	39	870	120	0.03	4	2	40
YY06889		<10	<1	0.03	10	2.21	931	3	0.01	34	920	134	0.05	5	2	22
YY06890		<10	<1	0.03	10	3.53	1080	2	0.02	24	1230	231	0.08	5	1	31
YY06891		<10	<1	0.02	10	6.40	1120	2	0.02	57	570	468	0.03	23	1	60
YY06892		<10	1	0.03	10	4.54	967	4	0.01	31	700	495	0.03	13	1	46
YY06893		<10	<1	0.03	10	5.21	989	3	0.02	23	1030	434	0.05	9	1	49
YY06894		<10	<1	0.04	10	4.98	1170	4	0.01	48	1640	522	0.05	19	3	45
YY06895		<10	<1	0.05	10	3.71	919	4	0.01	50	1360	327	0.05	13	2	43
YY06896		<10	<1	0.03	10	3.65	1055	2	0.02	22	1220	192	0.08	4	1	35
YY06897		<10	<1	0.03	10	5.64	489	1	0.02	25	660	319	0.05	5	1	50
YY06898		<10	<1	0.03	10	6.12	523	1	0.02	29	840	222	0.05	4	1	56
YY06899		<10	<1	0.06	10	5.42	258	11	0.01	96	880	42	0.11	10	2	75
YY06900		<10	1	0.16	20	0.06	113	23	0.01	27	850	34	0.31	8	<1	46
YY06901		<10	<1	0.27	20	0.02	45	22	0.01	35	940	36	0.56	14	1	104
YY06902		<10	<1	0.05	20	0.08	121	16	0.01	35	630	25	0.08	11	1	25
YY06903		<10	<1	0.04	10	2.23	487	4	0.01	42	1100	198	0.03	8	2	26
YY06904		<10	<1	0.03	10	4.15	607	2	0.02	25	820	218	0.04	5	1	42
YY06905		<10	<1	0.02	<10	9.01	463	1	0.02	21	310	326	0.01	10	1	81
YY06906		<10	1	0.03	10	5.72	564	2	0.02	23	650	100	0.03	5	1	47
YY06907		<10	<1	0.02	10	6.42	707	4	0.02	29	900	78	0.01	5	1	53
YY06908		<10	<1	0.05	10	5.11	425	2	0.01	16	620	143	0.07	11	1	47
YY06909		<10	<1	0.03	10	5.83	825	2	0.02	19	970	186	0.05	6	1	50
YY06910		<10	<1	0.03	10	5.50	637	2	0.02	19	790	331	0.02	5	1	50
YY06911		<10	1	0.03	10	6.47	826	2	0.01	28	770	193	0.02	7	1	62
YY06912		<10	<1	0.03	10	4.99	922	2	0.02	29	880	133	0.03	5	1	45
YY06913		<10	<1	0.03	10	4.24	871	3	0.02	29	1080	133	0.05	4	1	46
YY06914		<10	1	0.02	10	4.11	1105	4	0.02	48	1150	88	0.03	15	2	87



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Project: GROUNDHOG

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Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Ti	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm
LOD	20	0.01	10	10	1	10	2
YY06875	<20	0.01	<10	<10	25	<10	220
YY06876	<20	0.01	<10	<10	20	<10	228
YY06877	<20	0.01	<10	<10	24	<10	376
YY06878	<20	0.01	<10	<10	22	<10	145
YY06879	<20	<0.01	<10	<10	23	<10	200
YY06880	<20	0.01	<10	<10	17	<10	229
YY06881	<20	0.01	<10	<10	39	<10	595
YY06882	<20	0.01	<10	<10	23	<10	151
YY06883	<20	0.01	<10	<10	21	<10	462
YY06884	<20	0.01	<10	<10	18	<10	116
YY06885	<20	0.01	<10	<10	17	<10	348
YY06886	<20	0.01	<10	<10	27	<10	389
YY06887	<20	0.01	<10	<10	16	<10	1080
YY06888	<20	0.01	<10	<10	21	<10	259
YY06889	<20	0.01	<10	<10	20	<10	223
YY06890	<20	0.01	<10	<10	17	<10	365
YY06891	<20	<0.01	<10	<10	12	<10	963
YY06892	<20	0.01	<10	<10	18	<10	640
YY06893	<20	0.01	<10	<10	17	<10	339
YY06894	<20	<0.01	<10	<10	16	<10	838
YY06895	<20	0.01	<10	<10	21	<10	407
YY06896	<20	0.01	<10	<10	17	<10	270
YY06897	<20	0.01	<10	<10	14	<10	310
YY06898	<20	<0.01	<10	<10	15	<10	307
YY06899	<20	0.01	<10	<10	40	<10	188
YY06900	<20	0.01	<10	<10	51	<10	45
YY06901	<20	<0.01	<10	<10	33	<10	60
YY06902	<20	<0.01	<10	<10	26	<10	49
YY06903	<20	0.01	<10	<10	28	<10	413
YY06904	<20	0.01	<10	<10	23	<10	412
YY06905	<20	0.01	<10	<10	15	<10	493
YY06906	<20	0.01	<10	<10	19	<10	168
YY06907	<20	0.01	<10	<10	16	<10	141
YY06908	<20	<0.01	<10	<10	9	<10	257
YY06909	<20	0.01	<10	<10	16	<10	223
YY06910	<20	0.01	<10	<10	18	<10	152
YY06911	<20	0.01	<10	<10	16	<10	259
YY06912	<20	0.01	<10	<10	22	<10	229
YY06913	<20	0.01	<10	<10	22	<10	234
YY06914	<20	0.01	<10	<10	24	<10	206





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Sample Description	Method	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOD		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
YY06915		0.51	0.033	1.2	0.53	149	<10	120	<0.5	2	3.76	1.0	9	13	48	3.81
YY06916		0.37	0.010	0.8	0.41	94	<10	110	<0.5	2	7.7	0.7	9	8	22	3.70
YY06917		0.41	0.007	0.9	0.65	115	<10	130	<0.5	<2	4.43	1.3	10	15	28	3.90
YY06918		0.41	0.007	1.3	0.42	77	<10	100	<0.5	2	4.95	0.8	6	8	32	2.63
YY06919		0.45	0.011	1.6	0.38	94	<10	130	<0.5	2	4.61	1.0	7	7	35	2.60
YY06920		0.51	0.008	2.1	0.39	97	<10	90	<0.5	<2	7.8	1.9	8	7	31	2.46
YY06921		0.47	0.004	1.7	0.51	93	<10	130	<0.5	<2	1.76	1.1	10	10	43	2.76
YY06922		0.48	0.053	1.9	0.26	195	<10	130	<0.5	<2	4.64	0.6	4	7	38	2.33
YY06923		0.37	0.025	0.8	0.18	125	<10	70	<0.5	2	14.8	<0.5	9	4	19	3.41
YY06924		0.43	0.077	1.5	0.40	366	<10	200	<0.5	2	9.9	<0.5	7	5	17	4.15
YY06925		0.40	0.250	0.9	0.49	1090	<10	50	<0.5	2	12.9	0.5	10	5	27	3.80
YY06926		0.66	0.032	0.5	0.39	233	<10	50	<0.5	2	9.3	0.5	5	5	18	2.86
YY06927		0.46	<0.001	0.5	0.20	37	<10	30	<0.5	<2	14.0	0.6	3	4	8	1.43
YY06928		0.52	0.001	0.7	0.42	30	<10	60	<0.5	<2	7.8	1.3	7	7	23	2.24
YY06929		0.47	0.006	1.1	0.48	83	<10	130	<0.5	<2	0.32	1.0	5	9	30	2.54
YY06930		0.43	0.001	0.7	0.48	58	<10	110	<0.5	2	0.88	0.8	6	10	28	2.36
YY06931		0.46	0.002	0.5	0.21	43	<10	100	<0.5	<2	0.19	<0.5	3	4	17	1.38
YY06932		0.42	0.001	0.2	1.14	23	<10	70	<0.5	<2	1.75	<0.5	15	25	34	3.78
YY06933		0.53	0.009	<0.2	0.50	10	<10	50	<0.5	<2	6.72	<0.5	13	11	23	2.64
YY06934		0.40	0.005	0.2	0.76	13	<10	70	<0.5	2	4.60	<0.5	8	12	18	2.00
YY06935		0.39	<0.001	<0.2	1.09	13	<10	60	<0.5	<2	3.70	<0.5	15	20	27	3.30
YY06936		0.37	0.024	0.7	1.01	73	<10	110	0.6	<2	0.82	1.2	8	19	22	3.65
YY06937		0.43	0.011	0.5	0.62	38	<10	70	<0.5	2	9.0	0.7	6	14	14	2.77
YY06938		0.37	0.042	1.1	0.63	124	<10	110	0.6	<2	3.77	1.1	6	12	27	3.56
YY06939		0.43	0.020	0.6	0.52	72	<10	80	<0.5	2	8.7	1.2	5	9	18	2.68
YY06940		0.36	0.004	0.5	0.74	31	<10	110	<0.5	<2	6.31	1.2	6	15	15	2.56
YY06941		0.43	0.005	0.4	0.46	38	<10	80	<0.5	<2	11.1	0.9	5	11	14	1.92
YY06942		0.38	0.005	0.4	0.58	26	<10	110	<0.5	2	9.0	0.7	6	12	14	2.32
YY06943		0.35	0.008	0.7	1.01	37	<10	170	<0.5	2	2.29	0.6	9	21	23	3.88
YY06944		0.46	0.006	0.4	0.65	34	<10	110	<0.5	<2	7.4	<0.5	8	16	18	2.91
YY06945		0.47	0.010	0.3	0.88	35	<10	100	<0.5	<2	6.20	0.5	7	20	17	4.06
YY06946		0.36	0.018	0.2	0.16	43	<10	90	<0.5	2	17.0	<0.5	3	5	8	3.10
YY06947		0.44	0.024	0.3	0.33	43	<10	50	<0.5	2	13.4	<0.5	4	7	8	1.47
YY06948		0.45	0.023	0.2	0.16	32	<10	30	<0.5	2	12.6	<0.5	2	5	6	1.10
YY06949		0.38	0.008	0.5	0.50	25	<10	50	<0.5	<2	7.8	0.5	5	11	11	1.77
YY06950		0.45	0.022	0.8	0.70	25	<10	80	<0.5	<2	5.74	0.8	6	14	16	2.01
YY06951		0.37	0.064	0.8	0.31	47	<10	40	<0.5	<2	12.5	0.8	5	5	17	1.93
YY06952		0.42	0.006	0.9	0.19	33	<10	30	<0.5	<2	13.7	<0.5	3	3	11	1.41
YY06953		0.49	0.009	1.9	0.08	44	<10	10	<0.5	2	17.0	0.6	2	3	12	1.23
YY06954		0.35	0.005	1.5	0.15	38	<10	20	<0.5	2	16.3	0.6	2	4	7	1.22

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



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Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
Units		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
LOD		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
YY06915		<10	<1	0.04	10	2.15	806	5	0.01	47	940	67	0.04	10	2	39
YY06916		<10	<1	0.02	10	4.21	1100	3	0.01	38	750	72	0.04	7	1	55
YY06917		<10	<1	0.03	10	2.59	873	3	0.01	38	1080	143	0.03	6	2	34
YY06918		<10	<1	0.04	10	2.86	463	5	0.01	29	740	155	0.04	8	1	37
YY06919		<10	<1	0.05	10	2.56	539	7	0.01	30	830	170	0.07	10	1	40
YY06920		<10	<1	0.03	10	4.49	574	4	0.01	29	680	311	0.03	11	1	45
YY06921		<10	<1	0.04	20	1.07	320	3	0.01	45	870	162	0.01	6	2	27
YY06922		<10	<1	0.11	10	2.73	212	14	0.01	26	950	147	0.25	27	2	328
YY06923		<10	<1	0.02	10	8.13	806	5	0.02	36	870	35	<0.01	11	2	113
YY06924		<10	1	0.08	10	5.41	979	4	0.02	25	970	31	0.13	20	1	61
YY06925		<10	<1	0.02	10	7.04	1150	3	0.02	23	950	34	0.02	12	2	61
YY06926		<10	<1	0.02	10	5.21	623	1	0.02	20	430	34	0.02	9	1	42
YY06927		<10	<1	0.02	10	8.07	441	<1	0.02	12	320	65	0.01	6	1	63
YY06928		<10	<1	0.03	10	4.52	461	3	0.01	32	680	91	0.01	5	1	47
YY06929		<10	<1	0.09	10	0.21	291	14	0.01	32	900	134	0.14	14	2	59
YY06930		<10	1	0.07	20	0.56	257	14	0.01	35	800	65	0.10	14	2	33
YY06931		<10	<1	0.06	20	0.13	127	13	0.01	17	430	35	0.09	9	1	27
YY06932		<10	<1	0.03	20	1.14	463	2	0.02	37	890	24	0.04	2	3	46
YY06933		<10	1	0.03	20	2.60	485	1	0.02	28	1180	14	0.01	<2	2	114
YY06934		<10	1	0.03	10	2.53	430	1	0.02	23	600	24	0.03	<2	1	59
YY06935		<10	1	0.03	20	1.82	435	1	0.01	38	700	21	0.01	<2	2	68
YY06936		<10	<1	0.04	10	0.50	1745	2	0.02	28	890	137	0.05	5	2	16
YY06937		<10	1	0.03	10	5.25	1080	1	0.02	20	570	110	0.01	3	2	48
YY06938		<10	<1	0.03	10	2.14	1400	5	0.02	31	820	137	0.05	9	1	27
YY06939		<10	<1	0.03	10	5.02	1195	3	0.02	23	620	88	0.03	5	1	46
YY06940		<10	<1	0.04	10	3.86	986	2	0.02	24	680	95	0.03	4	1	45
YY06941		<10	<1	0.03	10	5.74	831	1	0.02	20	560	58	0.01	4	1	61
YY06942		<10	1	0.03	10	4.89	1045	1	0.02	24	590	82	0.04	2	1	53
YY06943		<10	1	0.05	10	1.42	1445	2	0.02	34	550	220	0.05	3	2	28
YY06944		<10	<1	0.04	10	4.25	1115	3	0.02	30	320	42	0.02	3	2	49
YY06945		<10	<1	0.04	10	3.78	1595	1	0.02	25	350	105	0.03	<2	2	25
YY06946		<10	<1	0.01	<10	9.30	1400	1	0.02	12	220	16	0.03	<2	1	58
YY06947		<10	<1	0.02	<10	7.42	1035	<1	0.02	11	260	50	0.01	3	1	61
YY06948		<10	1	0.01	<10	7.24	708	<1	0.02	8	230	30	0.01	2	1	53
YY06949		<10	<1	0.02	10	4.57	931	<1	0.01	16	510	123	0.03	2	1	29
YY06950		<10	<1	0.04	10	3.56	742	1	0.02	22	500	192	0.04	4	1	30
YY06951		<10	<1	0.02	10	7.11	791	1	0.02	13	380	210	0.03	8	1	56
YY06952		<10	<1	0.02	<10	7.76	808	1	0.02	10	260	322	0.03	5	1	60
YY06953		<10	<1	0.01	<10	9.75	587	<1	0.02	8	180	712	0.05	9	<1	74
YY06954		<10	<1	0.01	10	9.29	857	<1	0.02	8	310	472	0.05	6	<1	68

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Sample Description	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Th	Ti	Tl	U	V	W	Zn
	ppm	%	ppm	ppm	ppm	ppm	ppm
Method Analyte Units LOD	20	0.01	10	10	1	10	2
YY06915	<20	0.01	<10	<10	23	<10	164
YY06916	<20	<0.01	<10	<10	15	<10	111
YY06917	<20	0.01	<10	<10	23	<10	192
YY06918	<20	0.01	<10	<10	18	<10	176
YY06919	<20	<0.01	<10	<10	19	<10	208
YY06920	<20	0.01	<10	<10	15	<10	390
YY06921	<20	0.01	<10	<10	19	<10	236
YY06922	<20	<0.01	<10	<10	29	<10	79
YY06923	<20	<0.01	<10	<10	9	<10	75
YY06924	<20	0.01	<10	<10	15	<10	52
YY06925	<20	0.01	<10	<10	14	<10	63
YY06926	<20	0.01	<10	<10	13	<10	76
YY06927	<20	0.01	<10	<10	13	<10	131
YY06928	<20	0.01	<10	<10	21	<10	231
YY06929	<20	0.01	<10	<10	30	<10	203
YY06930	<20	0.01	<10	<10	27	<10	157
YY06931	<20	<0.01	<10	<10	20	<10	54
YY06932	<20	0.01	<10	<10	23	<10	143
YY06933	<20	0.01	<10	<10	14	<10	76
YY06934	<20	0.01	<10	<10	18	<10	103
YY06935	<20	0.01	<10	<10	18	<10	107
YY06936	<20	0.02	<10	<10	33	<10	271
YY06937	<20	0.02	<10	<10	24	<10	125
YY06938	<20	0.01	<10	<10	27	<10	261
YY06939	<20	0.01	<10	<10	19	<10	239
YY06940	<20	0.02	<10	<10	24	<10	356
YY06941	<20	0.02	<10	<10	18	<10	193
YY06942	<20	0.02	<10	<10	20	<10	109
YY06943	<20	0.03	<10	<10	34	<10	126
YY06944	<20	0.03	<10	<10	24	<10	60
YY06945	<20	0.04	<10	<10	29	<10	67
YY06946	<20	<0.01	<10	<10	8	<10	26
YY06947	<20	0.01	<10	<10	14	<10	64
YY06948	<20	0.01	<10	<10	7	<10	57
YY06949	<20	0.02	<10	<10	16	<10	109
YY06950	<20	0.02	<10	<10	20	<10	187
YY06951	<20	0.01	<10	<10	11	<10	159
YY06952	<20	0.01	<10	<10	9	<10	72
YY06953	<20	<0.01	<10	<10	6	<10	145
YY06954	<20	<0.01	<10	<10	6	<10	131



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Sample Description	Method Analyte Units LOD	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
YY06955		0.38	0.007	1.0	0.12	40	<10	20	<0.5	<2	16.9	<0.5	2	4	10	1.09
YY06956		0.44	0.004	0.3	0.29	39	<10	60	<0.5	<2	14.8	<0.5	2	6	6	1.29
YY06957		0.36	0.001	1.0	0.38	14	<10	70	<0.5	<2	10.6	0.8	5	6	13	1.44
YY06958		0.48	<0.001	0.3	0.25	13	<10	100	<0.5	2	15.8	0.5	3	6	7	1.20
YY06959		0.53	0.002	0.5	0.19	55	<10	150	<0.5	2	9.5	<0.5	5	4	15	1.67
YY06960		0.38	0.001	0.5	0.42	52	<10	190	<0.5	<2	3.26	<0.5	7	6	23	2.40
YY06961		0.28	0.005	0.7	0.32	73	<10	220	<0.5	<2	3.13	0.7	9	7	25	2.93
YY06962		0.37	0.001	0.4	0.48	39	<10	120	<0.5	<2	4.83	1.5	5	11	13	2.33
YY06963		0.74	0.007	0.3	0.16	87	<10	60	0.6	<2	12.3	<0.5	5	5	7	2.57
YY06964		0.44	0.011	0.9	0.30	28	<10	50	<0.5	2	13.3	2.6	5	7	14	1.92
YY06965		0.37	0.009	0.4	0.49	37	<10	80	<0.5	<2	10.1	1.5	6	10	9	3.09
YY06966		0.42	0.008	0.6	0.58	36	<10	90	<0.5	2	9.6	0.7	6	10	19	3.30
YY06967		0.40	0.013	0.6	0.47	46	<10	110	<0.5	2	10.0	1.1	6	9	15	4.46
YY06968		0.36	0.015	2.4	0.32	43	<10	50	<0.5	2	12.3	1.0	5	7	13	2.88
YY06969		0.43	0.006	0.4	0.45	18	<10	50	<0.5	2	10.3	0.6	4	8	10	1.72
YY06970		0.51	0.004	0.3	0.50	19	<10	50	<0.5	<2	10.3	0.5	4	10	11	1.86
YY06971		0.47	0.004	0.3	0.39	17	<10	50	<0.5	2	11.5	<0.5	4	7	9	1.57
YY06972		0.38	0.014	0.6	0.83	38	<10	80	0.5	<2	5.83	0.9	7	13	18	2.47
YY06973		0.41	0.017	0.8	0.54	35	<10	70	<0.5	<2	10.4	1.1	7	9	16	2.14
YY06974		0.50	0.016	0.8	0.53	27	<10	70	<0.5	2	10.4	0.8	8	13	14	2.30
YY06975		0.41	0.013	0.5	0.49	30	<10	50	<0.5	2	11.0	0.5	6	10	15	2.04
YY06976		0.48	0.009	0.2	0.39	21	<10	40	<0.5	2	12.5	<0.5	4	9	9	1.64
YY06977		0.46	0.005	0.2	0.17	9	<10	20	<0.5	<2	16.3	<0.5	2	4	5	0.98
YY06978		0.42	0.003	<0.2	0.10	7	<10	20	<0.5	<2	16.7	<0.5	1	3	3	0.85
YY06979		0.42	0.006	<0.2	0.13	15	<10	20	<0.5	<2	16.1	<0.5	1	4	7	1.04
YY06980		0.48	0.014	0.5	0.23	41	<10	30	<0.5	<2	14.9	0.6	3	6	8	1.61
YY06981		0.57	0.009	0.3	0.22	50	<10	60	<0.5	2	5.86	<0.5	5	4	19	1.95
YY06982		0.53	0.026	0.8	0.26	57	<10	50	<0.5	2	9.3	0.5	5	5	19	2.62
YY06983		0.65	0.014	0.2	0.11	22	<10	40	0.5	2	4.19	<0.5	4	2	15	2.04
YY06984		0.56	0.006	0.9	0.05	34	<10	90	<0.5	<2	18.5	4.8	3	3	16	1.86
YY06985		0.48	0.002	1.4	0.06	24	<10	90	<0.5	<2	18.6	1.1	4	3	18	1.07
YY06986		0.44	0.003	0.8	0.20	17	<10	90	<0.5	<2	14.9	0.7	3	5	13	1.05
YY06987		0.54	0.005	1.5	0.14	29	<10	550	<0.5	<2	14.4	1.9	5	5	19	2.22
YY06988		0.49	0.011	1.7	0.24	49	<10	130	<0.5	<2	11.3	1.3	6	6	33	2.78
YY06989		0.46	0.009	1.5	0.17	58	<10	100	<0.5	<2	10.7	1.1	5	5	32	2.30
YY06990		0.54	0.014	2.2	0.27	76	<10	150	<0.5	<2	7.5	1.4	6	6	37	3.37
YY06991		0.53	0.021	2.2	0.53	90	<10	80	<0.5	2	5.06	6.5	8	14	59	4.01
YY06992		0.47	0.013	1.7	0.44	71	<10	80	<0.5	<2	5.95	4.7	6	11	45	3.13
YY06993		0.38	0.007	0.5	0.45	60	<10	60	<0.5	<2	9.7	1.8	6	10	12	2.87
YY06994		0.45	0.022	0.4	0.59	51	<10	70	<0.5	<2	10.6	1.1	6	12	13	2.27



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Sample Description	Method Analyte Units LOD	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
YY06955		<10	<1	0.01	<10	9.83	746	<1	0.02	7	270	553	0.04	5	<1	67
YY06956		<10	<1	0.02	10	8.48	1230	<1	0.02	10	550	84	0.04	3	<1	57
YY06957		<10	<1	0.02	10	6.05	648	1	0.02	18	530	154	0.03	3	1	74
YY06958		<10	<1	0.01	10	9.05	678	<1	0.02	17	370	45	0.02	<2	1	92
YY06959		<10	<1	0.06	10	5.48	410	7	0.02	30	480	50	0.11	9	1	96
YY06960		<10	<1	0.06	10	1.56	409	8	0.02	36	1210	37	0.15	9	1	49
YY06961		<10	<1	0.05	10	1.57	345	8	0.01	46	1180	78	0.11	8	1	39
YY06962		<10	<1	0.03	10	2.72	1220	2	0.01	22	770	52	0.06	4	1	32
YY06963		<10	<1	0.02	<10	7.07	830	1	0.01	27	300	24	0.12	13	1	77
YY06964		<10	<1	0.02	10	7.50	717	1	0.02	16	370	51	0.03	<2	1	74
YY06965		<10	<1	0.02	10	5.76	1425	1	0.02	21	680	125	0.05	6	1	43
YY06966		<10	<1	0.03	10	5.54	1000	2	0.02	24	610	116	0.03	<2	2	56
YY06967		<10	1	0.02	10	5.58	2210	1	0.02	19	710	154	0.05	5	1	47
YY06968		<10	<1	0.02	10	6.99	1405	1	0.02	16	550	702	0.03	5	1	51
YY06969		<10	<1	0.02	10	5.93	788	<1	0.02	13	460	111	0.02	2	1	45
YY06970		<10	<1	0.02	10	6.00	805	<1	0.02	14	440	79	0.03	2	1	43
YY06971		<10	<1	0.02	10	6.59	728	<1	0.02	12	460	61	0.02	3	1	48
YY06972		<10	1	0.03	10	3.63	1075	1	0.02	23	750	160	0.04	4	1	31
YY06973		<10	1	0.03	10	5.93	837	1	0.02	20	600	211	0.04	4	1	49
YY06974		<10	<1	0.02	10	5.95	805	1	0.02	21	620	184	0.03	3	1	50
YY06975		<10	1	0.03	10	6.35	717	1	0.02	21	490	119	0.02	2	2	49
YY06976		<10	<1	0.02	10	7.25	503	<1	0.02	15	360	46	0.01	2	1	52
YY06977		<10	<1	0.01	10	9.36	468	<1	0.02	7	210	24	0.02	<2	1	63
YY06978		<10	<1	0.01	<10	9.64	532	<1	0.02	5	180	8	0.01	<2	<1	62
YY06979		<10	<1	0.01	10	9.32	502	<1	0.02	8	210	31	0.01	<2	1	62
YY06980		<10	<1	0.01	10	8.59	741	1	0.02	12	470	159	0.02	8	1	60
YY06981		<10	1	0.03	40	3.44	386	10	0.01	30	480	36	0.07	9	1	35
YY06982		<10	<1	0.02	60	5.45	790	15	0.02	30	360	71	0.04	19	1	55
YY06983		<10	<1	0.03	200	2.30	440	24	0.01	13	190	13	0.07	6	<1	25
YY06984		<10	1	<0.01	10	10.75	1405	1	0.02	9	70	80	0.01	11	<1	217
YY06985		<10	<1	<0.01	10	10.85	985	2	0.02	13	80	114	0.01	15	1	302
YY06986		<10	<1	0.01	10	8.70	945	1	0.02	11	270	47	0.02	6	<1	141
YY06987		<10	<1	0.01	10	8.29	1075	2	0.02	21	150	261	0.03	11	1	191
YY06988		<10	<1	0.02	10	6.51	1330	8	0.02	34	430	150	0.03	20	1	167
YY06989		<10	<1	0.02	10	6.27	1110	10	0.02	31	400	119	0.02	18	1	161
YY06990		<10	<1	0.03	10	4.32	1695	8	0.01	39	540	165	0.02	18	1	105
YY06991		<10	<1	0.03	20	2.97	955	5	0.01	52	630	370	0.05	12	2	28
YY06992		<10	1	0.03	10	3.49	863	5	0.02	41	770	386	0.04	10	2	51
YY06993		<10	1	0.02	10	5.59	987	1	0.02	31	590	142	0.03	5	1	41
YY06994		<10	<1	0.03	10	6.06	811	1	0.02	25	800	121	0.04	3	1	56

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Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Ti	U	V	W
	Units LOD	ppm	%	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10
	Zn	2					
YY06955		<20	0.01	<10	<10	7	<10
YY06956		<20	0.01	<10	<10	11	<10
YY06957		<20	0.01	<10	<10	12	<10
YY06958		<20	0.01	<10	<10	10	<10
YY06959		<20	0.01	<10	<10	12	<10
YY06960		<20	0.01	<10	<10	19	<10
YY06961		<20	<0.01	<10	<10	18	<10
YY06962		<20	0.01	<10	<10	20	<10
YY06963		<20	<0.01	<10	<10	7	<10
YY06964		<20	0.02	<10	<10	14	<10
YY06965		<20	0.01	<10	<10	20	<10
YY06966		<20	0.02	<10	<10	21	<10
YY06967		<20	0.01	<10	<10	22	<10
YY06968		<20	0.01	<10	<10	15	<10
YY06969		<20	0.02	<10	<10	15	<10
YY06970		<20	0.02	<10	<10	18	<10
YY06971		<20	0.01	<10	<10	14	<10
YY06972		<20	0.02	<10	<10	23	<10
YY06973		<20	0.02	<10	<10	16	<10
YY06974		<20	0.02	<10	<10	21	<10
YY06975		<20	0.03	<10	<10	20	<10
YY06976		<20	0.02	<10	<10	18	<10
YY06977		<20	0.01	<10	<10	9	<10
YY06978		<20	<0.01	<10	<10	6	<10
YY06979		<20	0.01	<10	<10	9	<10
YY06980		<20	0.01	<10	<10	12	<10
YY06981		<20	0.01	<10	<10	9	<10
YY06982		20	0.01	<10	<10	10	<10
YY06983		90	0.01	<10	<10	4	<10
YY06984		<20	<0.01	<10	<10	8	<10
YY06985		<20	<0.01	<10	<10	8	<10
YY06986		<20	0.01	<10	<10	8	<10
YY06987		<20	<0.01	<10	<10	8	<10
YY06988		<20	0.01	<10	<10	14	<10
YY06989		<20	<0.01	<10	<10	12	<10
YY06990		<20	<0.01	<10	<10	16	<10
YY06991		<20	0.02	<10	<10	28	<10
YY06992		<20	0.02	<10	<10	23	<10
YY06993		<20	0.01	<10	<10	17	<10
YY06994		<20	0.01	<10	<10	22	<10



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Project: GROUNDHOG

**CERTIFICATE OF ANALYSIS WH18199700**

Sample Description	Method Analyte Units LOD	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
YY06995		0.48	0.064	0.8	0.52	60	<10	50	<0.5	<2	8.5	1.2	5	13	14	1.70
YY06996		0.48	0.072	0.7	0.62	98	<10	60	<0.5	<2	7.9	2.1	6	13	13	1.75
YY06997		0.52	0.216	0.7	0.50	108	<10	50	<0.5	<2	10.2	2.0	4	9	13	1.68
YY06998		0.48	0.063	1.3	0.26	76	<10	30	<0.5	2	13.8	1.4	5	6	12	1.33
YY06999		0.43	0.061	6.3	0.29	51	<10	20	<0.5	2	13.6	3.7	3	6	39	1.21
YY07000		0.42	0.012	0.2	0.13	19	<10	30	<0.5	2	15.8	0.7	3	4	5	1.02
YY14001		0.57	0.089	0.2	0.28	87	<10	40	<0.5	<2	12.4	0.6	5	7	9	1.56
YY14002		0.44	0.018	0.2	0.32	27	<10	40	<0.5	<2	14.3	<0.5	4	7	7	1.36
YY14003		0.45	0.007	<0.2	0.15	15	<10	30	<0.5	<2	16.3	0.5	2	4	4	0.94
YY14004		0.47	0.048	0.2	0.22	56	<10	40	<0.5	<2	15.1	<0.5	3	5	7	1.58
YY14005		0.42	0.039	1.0	0.26	187	<10	40	<0.5	<2	5.92	1.9	7	7	19	1.99
YY14006		0.50	0.277	1.8	0.18	378	<10	30	<0.5	<2	8.0	1.6	9	6	18	2.99
YY14007		0.54	0.109	1.4	0.19	164	<10	40	<0.5	<2	12.4	4.2	6	5	14	2.07
YY14008		0.46	0.006	0.3	0.22	29	<10	30	<0.5	<2	6.00	<0.5	5	6	10	1.35
YY14009		0.40	0.025	0.4	0.34	57	<10	40	<0.5	<2	1.26	1.1	5	7	10	1.69
YY14010		0.66	0.086	0.4	0.12	127	<10	30	<0.5	<2	15.5	1.1	6	3	8	1.73
YY14011		0.40	0.003	0.5	0.89	80	<10	80	0.9	<2	0.04	<0.5	9	10	137	5.43
YY14012		0.57	0.003	0.6	0.43	77	<10	150	<0.5	<2	0.03	<0.5	5	8	65	5.39
YY14013		0.42	0.002	0.2	0.68	64	<10	70	<0.5	<2	0.07	<0.5	7	14	47	3.60
YY14014		0.42	0.001	0.6	0.60	55	<10	60	0.6	<2	0.09	0.7	15	10	65	3.67
YY14015		0.46	0.013	0.3	1.10	74	<10	90	0.5	<2	0.13	0.6	9	20	33	3.44
YY14016		0.52	0.002	0.3	0.55	50	<10	130	<0.5	<2	0.16	<0.5	6	12	44	3.17
YY14017		0.47	0.005	0.2	0.75	56	<10	100	0.5	<2	0.27	<0.5	7	15	30	3.04
YY14018		0.40	<0.001	0.5	0.66	53	<10	130	<0.5	<2	0.11	<0.5	5	15	30	2.72
YY14019		0.55	0.023	0.4	0.30	154	<10	50	<0.5	<2	12.0	0.9	9	6	15	2.31
YY14020		0.55	0.016	0.4	0.20	109	<10	30	<0.5	<2	12.4	0.6	7	5	14	2.16
YY14021		0.40	0.001	0.2	0.18	10	<10	20	<0.5	<2	15.5	0.5	3	4	5	1.05
YY14022		0.51	0.003	0.2	0.15	23	<10	20	<0.5	<2	16.1	<0.5	3	4	6	1.26
YY14023		0.50	0.004	<0.2	0.12	15	<10	20	<0.5	<2	13.0	0.5	9	4	5	1.25
YY14024		0.58	<0.001	1.2	0.19	103	<10	300	<0.5	<2	0.18	<0.5	1	11	32	1.25
YY14025		0.57	0.004	0.9	0.40	59	<10	110	<0.5	<2	0.16	<0.5	3	12	23	2.74
YY14026		0.50	0.002	0.6	0.27	38	<10	140	<0.5	<2	0.19	<0.5	2	8	28	2.06
YY14027		0.67	0.002	0.6	0.29	43	<10	150	<0.5	<2	0.06	<0.5	2	8	37	2.16
YY14028		0.44	0.001	0.5	0.24	42	<10	150	<0.5	<2	0.06	<0.5	1	6	25	1.45
YY14029		0.43	<0.001	0.4	2.05	21	<10	130	<0.5	2	0.88	<0.5	29	8	65	6.56
YY14030		0.52	0.005	0.8	0.54	20	<10	90	<0.5	<2	0.26	0.9	12	9	75	3.03
YY14031		0.54	0.003	0.7	0.23	50	<10	220	<0.5	<2	0.28	<0.5	22	8	99	4.82
YY14032		0.52	0.004	0.7	0.36	32	<10	80	<0.5	<2	0.23	0.7	15	9	81	3.91
YY14033		0.50	0.002	0.8	0.35	38	<10	70	<0.5	<2	0.20	0.7	13	6	99	4.66
YY14034		0.56	0.019	1.0	0.95	110	<10	110	1.0	2	0.89	2.3	10	9	257	3.85



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**CERTIFICATE OF ANALYSIS WH18199700**

Sample Description	Method Analyte Units LOD	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
YY06995		<10	<1	0.03	10	5.04	381	1	0.02	25	530	220	0.02	6	2	51
YY06996		<10	<1	0.04	10	4.60	507	1	0.02	20	780	132	0.04	3	1	40
YY06997		<10	1	0.03	10	6.00	553	1	0.02	17	570	158	0.03	5	1	44
YY06998		<10	<1	0.02	10	7.97	391	<1	0.02	18	490	321	0.03	12	1	53
YY06999		<10	1	0.02	10	7.82	323	<1	0.02	13	360	1470	0.02	23	1	53
YY07000		<10	<1	0.01	10	9.13	439	<1	0.02	9	300	44	0.02	4	1	57
YY14001		<10	1	0.02	10	7.22	510	1	0.02	35	370	39	0.02	7	1	43
YY14002		<10	<1	0.02	10	8.24	488	1	0.02	18	400	44	0.02	3	1	57
YY14003		<10	<1	0.01	10	9.32	463	<1	0.02	9	320	30	0.02	5	1	68
YY14004		<10	<1	0.01	10	8.59	732	<1	0.02	21	470	56	0.03	10	1	69
YY14005		<10	<1	0.03	10	3.45	448	2	0.01	27	540	200	0.03	13	1	34
YY14006		<10	<1	0.02	10	4.60	703	2	0.01	50	260	186	0.02	30	2	47
YY14007		<10	<1	0.02	10	7.00	1130	1	0.01	33	420	332	0.05	49	1	88
YY14008		<10	<1	0.02	10	3.34	475	1	0.01	17	630	64	0.04	6	1	32
YY14009		<10	<1	0.02	10	0.72	737	1	0.01	27	470	116	0.02	11	1	10
YY14010		<10	<1	0.01	10	8.86	1050	1	0.01	32	200	114	<0.01	31	1	89
YY14011		<10	<1	0.03	10	0.09	129	21	0.01	114	2070	20	0.04	14	1	18
YY14012		<10	1	0.04	20	0.04	47	25	0.01	67	1690	26	0.06	15	1	101
YY14013		<10	<1	0.04	30	0.13	128	11	0.01	40	1330	25	0.05	8	<1	26
YY14014		<10	<1	0.04	20	0.13	280	10	0.01	105	1140	52	0.02	10	2	20
YY14015		<10	<1	0.03	20	0.22	491	6	0.01	46	1090	58	0.04	6	1	16
YY14016		<10	<1	0.03	20	0.12	122	7	0.01	45	1200	29	0.07	5	1	23
YY14017		<10	<1	0.03	20	0.16	255	4	0.01	42	1460	28	0.05	2	1	17
YY14018		<10	<1	0.04	20	0.13	248	7	0.01	29	1530	29	0.06	5	1	22
YY14019		<10	1	0.02	10	6.90	743	1	0.02	57	470	64	0.02	8	1	53
YY14020		<10	<1	0.02	10	7.07	599	1	0.02	43	280	63	0.01	5	1	54
YY14021		<10	<1	0.01	10	8.88	367	<1	0.02	9	430	59	0.02	<2	1	71
YY14022		<10	<1	0.01	10	9.32	499	<1	0.02	16	350	58	0.01	2	1	68
YY14023		<10	<1	0.01	10	7.57	375	1	0.02	55	250	33	0.01	3	1	54
YY14024		<10	<1	0.14	20	0.09	38	22	0.01	10	390	37	0.24	16	2	83
YY14025		<10	<1	0.12	40	0.19	49	24	0.01	50	1540	43	0.34	13	2	109
YY14026		<10	<1	0.08	30	0.09	73	11	0.01	34	860	33	0.23	7	1	69
YY14027		<10	<1	0.07	30	0.08	61	12	0.01	36	940	33	0.19	6	1	78
YY14028		<10	<1	0.09	20	0.04	44	14	0.01	18	640	33	0.19	7	1	59
YY14029		10	<1	0.03	30	0.84	700	4	0.01	59	3660	14	0.05	4	6	79
YY14030		<10	<1	0.03	20	0.23	156	5	0.01	65	1310	32	0.08	5	2	60
YY14031		<10	<1	0.05	20	0.10	249	7	0.01	112	1720	48	0.09	8	3	139
YY14032		<10	<1	0.03	20	0.14	236	8	0.01	89	1390	30	0.09	6	2	85
YY14033		<10	<1	0.03	20	0.09	177	9	0.01	93	1680	29	0.06	7	2	64
YY14034		<10	<1	0.06	20	0.43	251	17	0.01	89	1070	87	0.16	10	3	66





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Sample Description	Method Analyte Units LOD	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
YY06995		<20	0.03	<10	<10	21	<10	228
YY06996		<20	0.02	<10	<10	21	<10	331
YY06997		<20	0.02	<10	<10	17	<10	329
YY06998		<20	0.01	<10	<10	12	<10	259
YY06999		<20	0.01	<10	<10	12	<10	883
YY07000		<20	<0.01	<10	<10	8	<10	91
YY14001		<20	0.01	<10	<10	11	<10	128
YY14002		<20	0.01	<10	<10	13	<10	70
YY14003		<20	<0.01	<10	<10	7	<10	82
YY14004		<20	0.01	<10	<10	12	<10	88
YY14005		<20	<0.01	<10	<10	10	<10	413
YY14006		<20	<0.01	<10	<10	13	<10	366
YY14007		<20	0.01	<10	<10	11	<10	914
YY14008		<20	0.01	<10	<10	8	<10	145
YY14009		<20	0.02	<10	<10	13	<10	262
YY14010		<20	<0.01	<10	<10	9	<10	447
YY14011		<20	<0.01	<10	<10	37	<10	317
YY14012		<20	<0.01	<10	<10	23	<10	192
YY14013		<20	0.01	<10	<10	29	<10	125
YY14014		<20	0.02	<10	<10	22	<10	242
YY14015		<20	0.02	<10	<10	32	<10	175
YY14016		<20	0.01	<10	<10	24	<10	145
YY14017		<20	0.01	<10	<10	24	<10	132
YY14018		<20	0.01	<10	<10	29	<10	94
YY14019		<20	0.01	<10	<10	14	<10	151
YY14020		<20	0.01	<10	<10	11	<10	99
YY14021		<20	<0.01	<10	<10	11	<10	81
YY14022		<20	0.01	<10	<10	11	<10	85
YY14023		<20	<0.01	<10	<10	9	<10	108
YY14024		<20	0.01	<10	<10	35	<10	23
YY14025		<20	<0.01	<10	<10	31	<10	66
YY14026		<20	<0.01	<10	<10	23	<10	48
YY14027		<20	<0.01	<10	<10	22	<10	57
YY14028		<20	<0.01	<10	<10	24	<10	27
YY14029		<20	<0.01	<10	<10	64	<10	268
YY14030		<20	<0.01	<10	<10	18	<10	242
YY14031		<20	<0.01	<10	<10	22	<10	191
YY14032		<20	<0.01	<10	<10	17	<10	197
YY14033		<20	<0.01	<10	<10	18	<10	259
YY14034		<20	<0.01	<10	10	25	<10	268



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Sample Description	Method Analyte Units LOD	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
YY14035		0.47	0.034	4.5	0.50	170	<10	70	0.5	2	3.46	5.3	12	9	147	3.59
YY14036		0.50	0.014	2.2	1.08	214	<10	80	0.7	<2	4.10	4.1	20	13	185	4.30
YY14037		0.60	0.009	4.1	0.28	125	<10	20	<0.5	<2	13.9	8.0	12	4	66	2.98
YY14038		0.50	0.014	5.7	0.09	131	<10	20	<0.5	<2	9.8	6.3	12	4	57	2.23
YY14039		0.50	0.005	1.9	0.13	91	<10	20	<0.5	2	5.12	3.9	7	3	29	1.41
YY14040		0.50	0.001	0.6	0.09	26	<10	10	<0.5	<2	4.95	1.1	3	3	9	0.88



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Sample Description	Method Analyte Units LOD	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
YY14035		<10	1	0.04	10	1.85	448	28	0.01	96	1290	798	0.08	28	3	57
YY14036		<10	<1	0.04	10	2.10	532	20	0.01	145	1560	262	0.08	23	4	48
YY14037		<10	1	0.01	10	7.80	877	1	0.01	65	490	917	0.14	14	2	89
YY14038		<10	1	0.01	10	5.69	759	2	0.01	32	640	1090	0.07	19	2	50
YY14039		<10	<1	0.02	10	2.89	704	2	0.01	21	530	330	0.05	14	1	27
YY14040		<10	<1	0.01	10	2.84	305	1	0.01	13	340	119	0.06	6	1	23



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Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Ti	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
LOD	20	0.01	10	10	1	10	2	
YY14035		<20	<0.01	<10	10	21	<10	1010
YY14036		<20	<0.01	<10	10	31	<10	566
YY14037		<20	<0.01	<10	<10	10	<10	1790
YY14038		<20	<0.01	<10	<10	6	<10	1410
YY14039		<20	<0.01	<10	<10	6	<10	898
YY14040		<20	<0.01	<10	<10	3	<10	226



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**CERTIFICATE OF ANALYSIS WH18199700**

**CERTIFICATE COMMENTS**

**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- ICP41