

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
1016 - 510 West Hastings Street  
Vancouver, B.C. V6B 1L8

Telephone: 604-688-2568

Fax: 604-688-2578

**ASSESSMENT REPORT**

describing

**PROSPECTING AND GEOCHEMICAL SAMPLING**

Field work performed July 22 to 28, 2015

at the

**KLUANE PROPERTY**

Arc 1-74	YD09459-YD09532	Malou 7-14	YB37727-YB37734
Delor 1-10	YB37735-YB37744	15-20	YB38136-YB38141
11-24	YB38302-YB38315	21-26	YB38218-YB38223
25-48	YB47116-YB47139	27-40	YB38316-YB38329
49-129	YB54418-YB54498	41-52	YB47140-YB47151
130-135	YE66361-YE66366	Shut 5	YB38330
Malou 1-6	YB35901-YB35906	Wasp 47-58	YD09447-YD09458

Latitude 61°12'N, Longitude 137°45'W  
NTS 115H/4

in the

Whitehorse Mining District  
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

separate

**STRATEGIC METALS LTD.**

by

J. Morton, B.Sc., GIT  
December 2015

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## INTRODUCTION

The Kluane property covers high-grade gold veins that are located in the Ruby Range, about 45 km north of Haines Junction in southwestern Yukon Territory. The property is wholly owned by Strategic Metals Ltd., subject to a 1% net smelter return royalty payable to the estate of J.P. Ross. One-half of the royalty can be purchased for \$500,000.

This report describes prospecting and geochemical sampling conducted between July 22 and July 28, 2015 by Archer, Cathro & Associates (1981) Limited on behalf of Strategic Metals. The author supervised the program and interpreted all resulting data. His Statement of Qualifications is in Appendix I. A Statement of Expenditures is located in Appendix II.

## PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Kluane property is an amalgamation of 274 contiguous Arc, Delor, Malou, Shut and Wasp claims, which are located on NTS map sheet 115H/4, at latitude 61°12'N and longitude 137°45'W (Figure 1). The property covers an area of approximately 5550 ha (55 sq km). The claims are registered with the Whitehorse Mining Recorder in the name of Archer Cathro, which holds them in trust for Strategic Metals. Claim registration data are listed below while the locations of individual claims are shown on Figure 2.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Arc 1-74	YD09459-YD09532	March 10, 2021
Delor 1-10	YB37735-YB37744	March 10, 2021
11-24	YB38302-YB38315	March 10, 2021
25-48	YB47116-YB47139	March 10, 2021
49-129	YB54418-YB54498	March 10, 2021
130-135	YE66361-YE66366	March 10, 2021
Malou 1-6	YB35901-YB35906	March 10, 2021
7-14	YB37727-YB37734	March 10, 2021
15-20	YB38136-YB38141	March 10, 2021
21-26	YB38218-YB38223	March 10, 2021
27-40	YB38316-YB38329	March 10, 2021
41-52	YB47140-YB47151	March 10, 2021
Shut 5	YB38330	March 10, 2021
Wasp 47-58	YD09447-YD09458	March 10, 2021

\* Expiry dates include 2015 work which has been filed for assessment credit, but has not yet been accepted.

The Kluane property lies approximately 148 km west-northwest of Whitehorse and 45 km north of Haines Junction. The closest road access is a local placer mining road that extends from the Alaska Highway to Fourth of July Creek. This road comes within 10 km of the southwest corner of the property. In 2015, access to the property was provided by a Bell 206B helicopter operated by Capital Helicopters (1995) Inc. of Whitehorse from a staging area at the south end of Canyon

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FIGURE 1  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

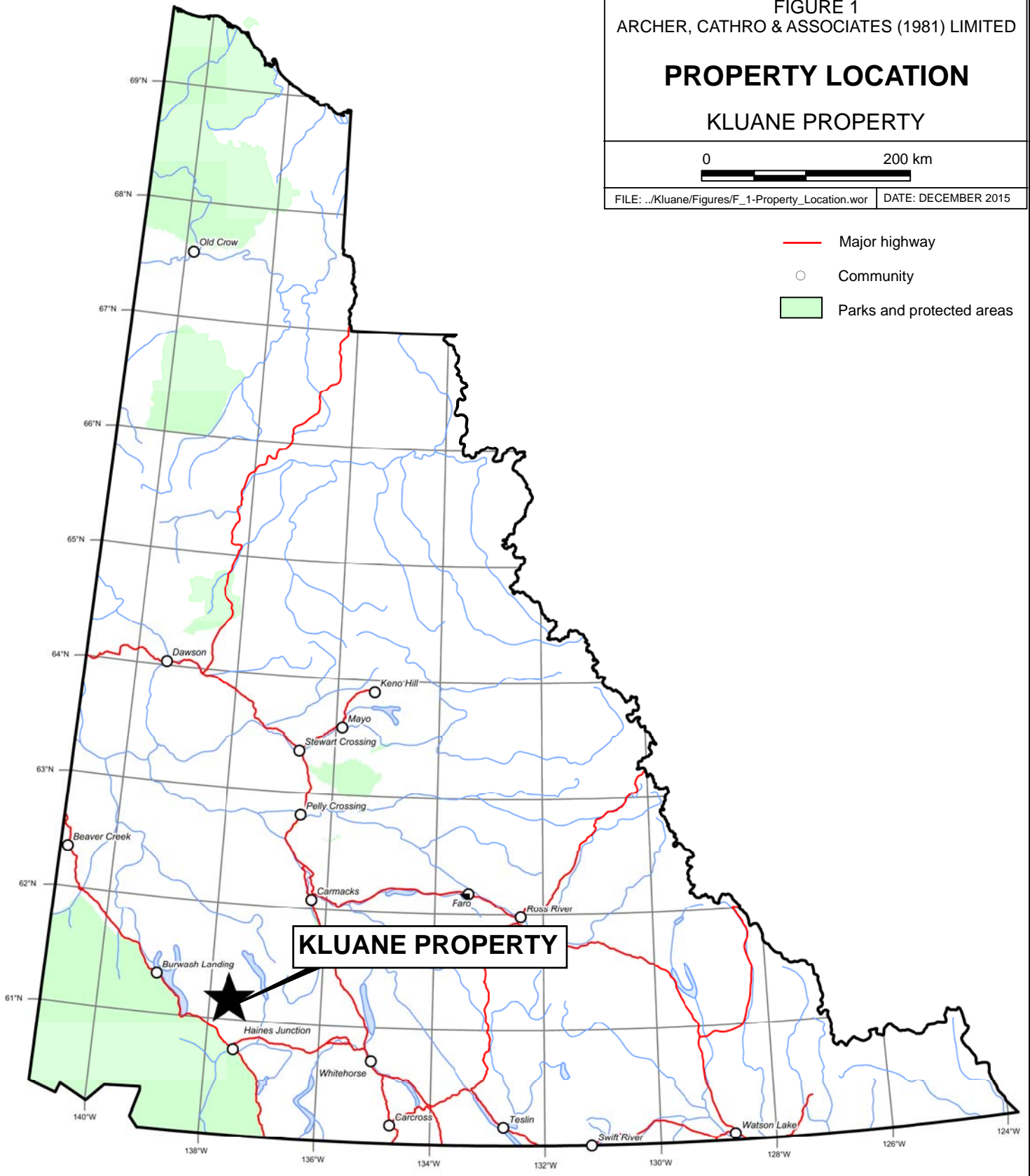
## PROPERTY LOCATION

KLUANE PROPERTY

0 200 km

FILE: ../Kluane/Figures/F\_1-Property\_Location.wor | DATE: DECEMBER 2015

- Major highway
- Community
- Parks and protected areas



Lake, 35 km east of the Kluane property. The Aishihik Hydroelectric Dam is located 29 km east of the property.

The Kluane property lies within the traditional territory of the Champagne and Aishihik First Nations, which have concluded their land claim agreement with Canada and Yukon.

### **HISTORY AND PREVIOUS WORK**

Placer gold occurrences are documented on Ruby, Granite, Dixie, Fourth of July and Twelfth of July creeks to the south and west of the Kluane property. These creeks have been explored intermittently since the early 1900s. Gladstone Creek, which lies 30 km northwest of the property, is the most productive creek in the area, reportedly producing 35,606 ounces of gold from 1978 to 2009. Fourth of July Creek reportedly produced 14,288 ounces of gold from 1978 to 2009 (Bond and Van Loon, 2014). Mining is still active on these creeks.

Hard rock exploration in the Kluane property area began after a Geological Survey of Canada (GSC) stream sediment survey on the Aishihik map sheet reported anomalous gold and arsenic values from several drainages in the Ruby Range (Hornbrook and Friske, 1985). Immediately following the release of the geochemical data, Silverquest Resources Ltd., (which later changed its name to Cash Resources Ltd. and subsequently to Cash Minerals Ltd. – collectively referred to as “Cash” in this report,) staked the Shut, Kil, Kin and Live claim blocks to cover four of the anomalous drainages. Nearby anomalies were staked by United Keno Hill Mines Limited (UKHM) as four separate blocks of Ruby claims and by independent prospector J.P. Ross as the Spruce, Cliff and Wall claims.

In 1986, Cash performed reconnaissance geochemical sampling and prospecting. A number of gold and arsenic anomalies were identified in the vicinity of the Shut claims, but this follow-up work did not substantiate the GSC anomalies on the Kil, Kin and Live properties.

In 1987, Cash added 16 claims to the Shut claim block to cover the new soil geochemical anomalies, and performed more reconnaissance contour geochemical sampling and prospecting. The best result from this work was from a specimen of arsenopyrite-bearing quartz-carbonate float that assayed 125 g/t gold (Main, 1988). That same year, UKHM performed soil sampling and prospecting, which outlined significant gold and arsenic anomalies on its Ruby 7-12 claims immediately south of the Shut claim block. Surprisingly, the Ruby 7-12 claims were allowed to lapse.

In August 1987, DalBianco Exploration Syndicate staked the Lib and Beth claims, and carried out a program of hand trenching on the Lib claims, which resulted in the first lode gold discovery on what is now the Kluane property. Four hand trenches exposed an arsenopyrite-rich quartz-carbonate vein system with a strike length of 50 m, in an area now referred to as the DalBianco Showing (Figure 2). Selected specimens returned up to 89 g/t gold (Main, 1988). The Lib claims covered what is now the southeastern corner of the Kluane property.

In September 1987, Ross staked a large block of Arc claims, three kilometres northeast of the Shut property.

In March 1988, DalBianco Exploration Syndicate optioned its Lib and Beth claims to Cash. In June that same year, Cash optioned the Lib, Beth and Shut claims to Pezgold Resource Corp. Exploration by Pezgold in 1988 consisted of grid soil geochemical sampling and prospecting on the Lib and Shut claims. This work outlined coincident north-trending gold and arsenic anomalies on both properties and located more arsenopyrite-rich veins at the DalBianco Showing. In July 1988, Pezgold staked the Angus and Topgun claims to provide additional coverage around the anomalies on the Shut and Lib claim blocks (Main, 1988). The Lib and Beth claims were subsequently allowed to lapse.

Also in 1988, Ross staked the Stroker claims contiguously to the east of the Arc claim block, and additional Cliff claims on the east side of Killermun Lake. Prospecting on the Arc claims discovered quartz-carbonate vein float that assayed 86 g/t gold (Main, 1988).

In 1989, Ross optioned the Arc and Stroker claims to Noranda Exploration Co. Ltd., which performed geological mapping, soil sampling and geophysical surveys. Soil sampling performed by Noranda outlined widespread arsenic anomalies and scattered elevated gold values, but no significant mineral occurrences were identified and the option was dropped.

Between 1991 and 1993, Ross restaked the Ruby 7-12 and Beth claims as the Malou claims, and the Lib claims as the Delor claims. In late summer 1993, Cash optioned the Malou and Delor claims, which it added to its Shut and Angus claim blocks to form the Ruby Range property.

In fall 1994, Cash optioned the Arc and Stroker claims from Ross, and added these claims to its Ruby Range property.

In spring 1995, NDU Resources Ltd. optioned the Ruby Range property from Cash. That summer, NDU performed claim staking, geological mapping, 934 m of excavator trenching, 31.6 line km of horizontal loop electromagnetic (HLEM) Max-Min surveys and 1874 m of diamond drilling in 14 holes (Becker, 1996). Both companies later relinquished their options, leaving Ross with the Delor, Malou, Shut 5, Arc and Stroker claims and Cash with the Angus and the remainder of the Shut claims.

In spring 2002, Cash re-optioned the Delor, Malou and Shut 5 claims from Ross and again combined them with its Shut and Angus claims. Exploration that summer consisted of additional prospecting and hand trenching (Eaton, 2003).

In fall 2004, Cash performed a 45.6 line km HLEM Max-Min geophysical survey across the central part of the current property. This survey identified nine multi-line anomalies (A-1 to A-9) and three isolated anomalies, all of which were interpreted to be caused by weak, steeply dipping, tabular conductors. Most of the conductors were found to coincide with subtle linear depressions associated with known veins or strong soil geochemical anomalies. The most extensive system of conductors was identified in an area with little soil sample coverage in the northern part of the survey area (Eaton, 2004). Cash subsequently terminated the option.

In June 2009, Rockhaven Resources Ltd. purchased the core of the current Kluane property, which comprised the Delor 1-129, Malou 1-52 and Shut 5 claims, from the estate of J. P. Ross.

In September 2009, Rockhaven Resources conducted a short hand trenching and soil sampling program on the property. The best result from this work was from a grab sample of scorodite-stained quartz-carbonate vein that returned 50.2 g/t gold (Turner, 2010).

In January 2010, the Arc 1 to 74 and Wasp 47 to 58 claims were staked by Rockhaven Resources. Later that year, Cash changed its name to Pitchblack Resources Ltd.

In late 2011, Rockhaven Resources optioned the property to West Point Resources Inc., which conducted helicopter-borne versatile time electromagnetic (VTEM) and magnetic surveys over the property in 2012 before dropping its option in 2013.

In 2014, Rockhaven Resources staked an additional six claims (Delor 130 to 135), and performed prospecting, soil sampling, and hand trenching on the property. The 2014 program focused on expanding soil sample coverage and re-evaluating historical hand trenches and mineralized float occurrences. The best result from the 2014 program came from the Delor Showing and assayed 225 g/t gold (Burrell, 2014).

In October 2015, ownership of the Kluane property was transferred to Strategic Metals from Rockhaven Resources, as part of a larger property exchange agreement.

### **GEOMORPHOLOGY**

The property is situated in the Ruby Range Mountains about 25 km northeast of the Shakwak Valley. The area lies in the rain shadow of the St. Elias Mountains, which are located to the southwest. Average annual precipitation is less than 50 cm. Creeks draining the property are tributaries of the Aishihik River, which connects to the Pacific Ocean via the Alsek River.

Topography in much of the area is strongly influenced by Pleistocene to recent valley and alpine glaciation. As a result, the Kluane area is characterized by gently undulating uplands cut by broad, north trending U-shaped valleys, which are flanked by hanging valleys that terminate in cirques. Valley bottoms in the vicinity of Killermun Lake, immediately southeast of the claim block, are well treed with black spruce. Elsewhere, valley floors and lower slopes are typically vegetated with scattered buckbrush, stunted spruce and slide alder. Alpine grasses and open talus slopes predominate at higher elevations.

Bedrock exposures are rare on the valley floors, due to a blanket of glaciofluvial outwash and till. Lower slopes are generally covered by lateral moraines up to 1500 m thick and bedrock is only seen where creeks have made deep incisions through this material. Relief between 1500 and 1800 m is moderate to steep and outcrops are common where slopes exceed 30°. Ridge crests and upland plateaus above 1800 m appear to have escaped glaciation and are capped with slabby felsenmeer boulder fields. Although outcrop is locally abundant, it comprises less than 5% of the property. Soil development on the property is poor.



## **REGIONAL GEOLOGY**

The Kluane property lies 40 km northeast of the Denali Fault and is located within the Kluane Schist Terrane, immediately southwest of its contact with the Yukon-Tanana Terrane (Figure 3). The northeast-dipping contact between the Kluane Schist and Yukon-Tanana terranes is obscured by the Paleocene (64-57 Ma) Ruby Range Batholith, which was emplaced late in the deformation history (Figure 4).

The regional geology in the vicinity of the Kluane property has recently been mapped by the Yukon Geological Survey (YGS) at 1:50,000 scale (Israel et al., 2011, in part utilizing data from a 400 m line-spaced aeromagnetic survey flown in winter 2010 (Kiss, 2010). Previously, 1:250,000 scale mapping was completed by the GSC in the early 1970s (Tempelman-Kluit, 1974). The following description of regional geology is summarized from Israel et al. (2013).

The Ruby Range Batholith primarily consists of quartz diorite, tonalite and granodiorite with lesser amounts of diorite, gabbro and granite. Compositions generally become more felsic to the north.

In the vicinity of the Kluane property, the Kluane Schist is a garnet-rich orthogneiss/paragneiss unit of unknown affinity. It is thought to be comprised of detritus shed east to west from Yukon-Tanana Terrane rocks, but it could also be the basement of the Yukon-Tanana Terrane. The contact between Kluane Schist and the Ruby Range Batholith is rarely exposed and could be a shear zone or an intrusive contact (Israel et al., 2013).

## **PROPERTY GEOLOGY**

Systematic geological mapping on the property is hindered by a lack of bedrock exposures. In most areas, contacts are inferred from the distribution of lithologies in talus and felsenmeer (Photo 1). The property geology described below is based on the mapping by the GSC and YGS, and observations made by exploration geologists who worked on the property at various times.



Photo 1 – Typical outcrop exposure and felsenmeer field

# ROCKHAVEN RESOURCES LTD.

FIGURE 3

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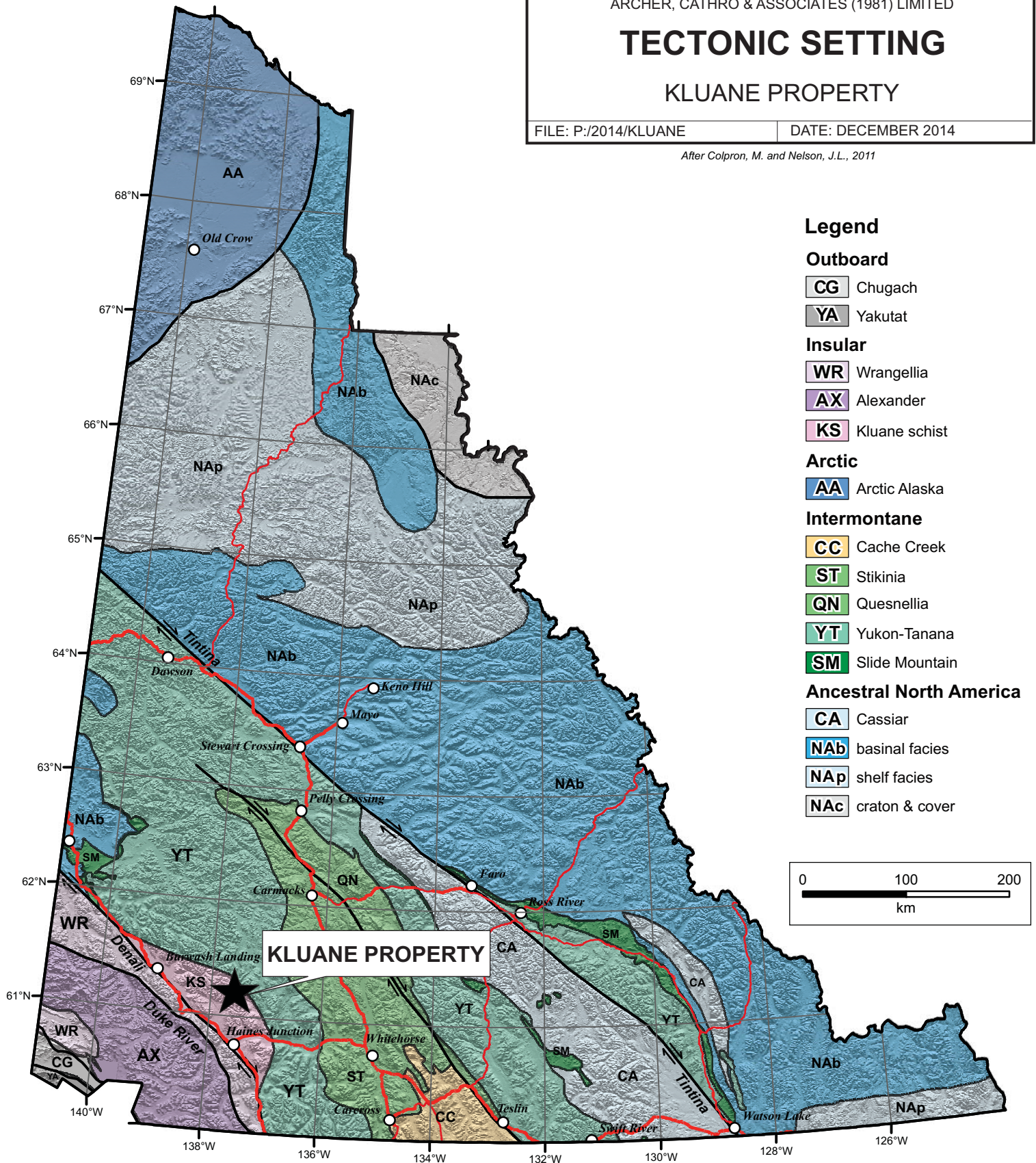
## TECTONIC SETTING

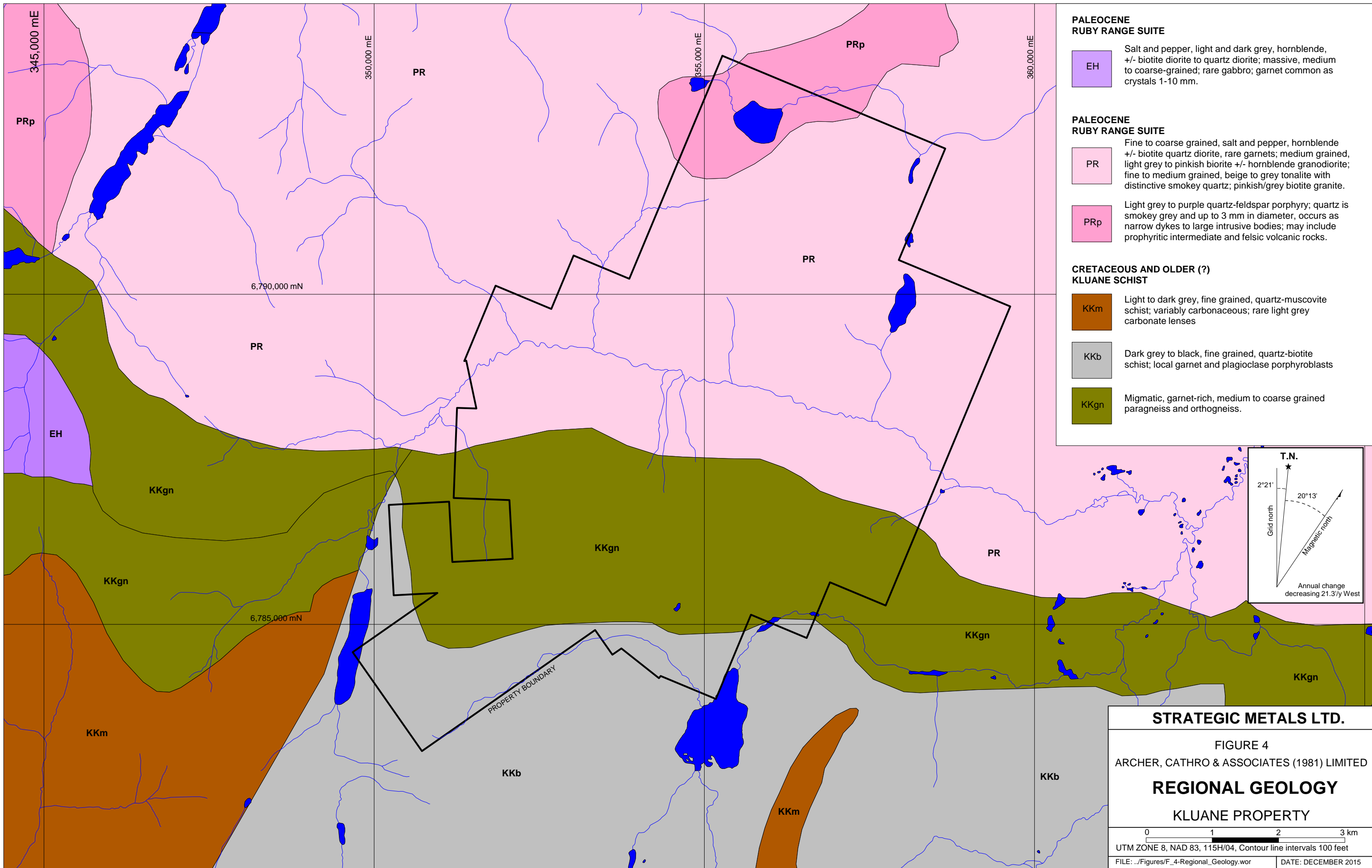
### KLUANE PROPERTY

FILE: P:/2014/KLUANE

DATE: DECEMBER 2014

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





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FIGURE 4  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**REGIONAL GEOLOGY**

**KLUANE PROPERTY**

0 1 2 3 km  
 UTM ZONE 8, NAD 83, 115H/04, Contour line intervals 100 feet

FILE: ../Figures/F\_4-Regional\_Geology.wor DATE: DECEMBER 2015

## **Lithology**

The rock type underlying most of the southern part of the property is a relatively homogeneous, coarse grained, graphitic quartz-biotite schist to gneiss of the Kluane Schist Terrane. This unit is often rusty brown on fracture surfaces and blocky weathering. Common accessory minerals include garnet and staurolite with lesser tourmaline. Foliation predominantly strikes 90° to 145° and dips 15° to 35° northeast. The main exception to this trend occurs south of Shut Creek in the western part of the property, where foliation strikes about 160° with sub-horizontal dips.

Marble lenses and rare skarn zones are found within the gneiss on the east-facing slope above Killermun Lake. Exposures of marble are typically white to pale green on both weathered and fresh surfaces, display weak silicification, and range up to 7 m thick and 100 m long. Skarns consist of medium to coarse grained garnet and diopside. They are often rusty weathering and difficult to distinguish from the surrounding gneiss, unless the rock is broken.

Coarse grained granodiorite of the Ruby Range Batholith underlies the northern part of the property. The intrusive contact is on the floor of a broad valley and is mostly obscured by glacial till and glaciofluvial outwash. Where observed, this contact is sharp. The granodiorite exhibits approximately 1.5 km wide border phase of well developed foliation that parallels the contact and metamorphic textures of the gneiss.

A few undeformed granodiorite outcrops have also been observed immediately northwest of Killermun Lake and are believed to be part of a small plug. Near the centre of the claim block, there is a 400 m diameter area of foliated, fine grained granodiorite talus that is believed to have been derived from another small plug.

Two sets of narrow unfoliated dykes have been noted on the property in several areas underlain by Kluane Schist. The dykes are up to one metre wide and are best distinguished by grain size. One set of dykes is andesitic in composition, tan to medium grey and microcrystalline. They strike 160 to 190°, dip 60 to 70° to the west and occasionally follow north-trending shear zones. The other dyke set is fine to medium grained and dioritic in composition. These dykes are pale green-grey, strike 080 to 100° and dip steeply to the south or north.

The age relationship between the various intrusive phases is uncertain because no cross-cutting relationships have been observed.

## **Structure**

Airphoto analysis and ground mapping have recognized numerous small north- and northeast-trending recessive topographic linears on the property. Where exposed in outcrops and trenches, these linears contain one or more gouge zones surrounded by a few metres of weakly altered wallrock exhibiting moderate to strong fracturing parallel to the trend of the linear. Quartz veins or andesitic dykes have been emplaced along several of the linears.

Three sets of veins have been identified on the property. Two sets are conformable to foliation in the gneiss, while the third set, which is often gold bearing, is discordant to foliation.

The most common set of veins on the property are quartz-carbonate veins that are conformable to foliation. They generally strike  $110^{\circ}$  to  $125^{\circ}$ , dip  $40$  to  $80^{\circ}$  northeast and range up to 1.5 m in width. A second conformable vein set exhibits a more complex mineral assemblage that typically comprises glassy granular quartz masses with andalusite, amphibolite, garnet and/or tourmaline. These veins range up to 70 cm in width and sometimes cut foliation at a shallow angle. Vein selvages often contain andalusite, muscovite and chlorite.

The third, discordant vein set hosts most of the gold mineralization. It consists of: quartz that is typically milky white, granular to massive and weakly to strongly fractured parallel to the vein walls; lesser carbonate that is tan to cream coloured where fresh, but is often leached from surface samples, leaving a powdery white residue in cavities; and minor muscovite. These veins cut foliation at a high angle, striking northerly and dipping moderately to steeply westward. In a few locations these veins cut the andesitic dyke set.

A few unmineralized faults appear to slightly offset all three of the vein sets. A good example of these faults is found in the eastern part of the property, where an unmineralized fault crosses the Rikus Zone. This fault strikes northwesterly, dips steeply and has produced about 25 m of apparent dextral offset.

### **MINERALIZATION**

Prospecting, trenching and drilling on the Kluane property have identified nine named showings, and three zones (zones are showings where drilling has confirmed the depth extent of mineralization). Nine of the mineral occurrences – the Rikus, Ross and Malou zones, and the Delor, DalBianco, Sack, Switchback, Shut, and North Shut showings – are located within a 5500 by 3500 m area underlain by Kluane Schist in the southern and central parts of the Kluane property. The remaining three showings – the Arc, Slayer and Metallica – are located three kilometres to the north, within the Ruby Range Batholith.

Mineralization at all occurrences is hosted almost exclusively in discordant quartz-carbonate veins with scorodite staining. Arsenopyrite is by far the most abundant sulphide mineral in the veins, but traces of galena, chalcopyrite and pyrite have also been noted. Sulphides are generally one to four millimetres in diameter and occur as disseminations or in semi-massive to massive bands. Rare native gold grains have been observed in oxidized and unoxidized veins. Individual veins range up to 85 cm in width, but they can occur in swarms that are up to 9.5 m across, where sub-parallel veins are separated by narrow gouge zones. The gold bearing veins rarely outcrop and are usually marked by north-trending recessive topographic linears.

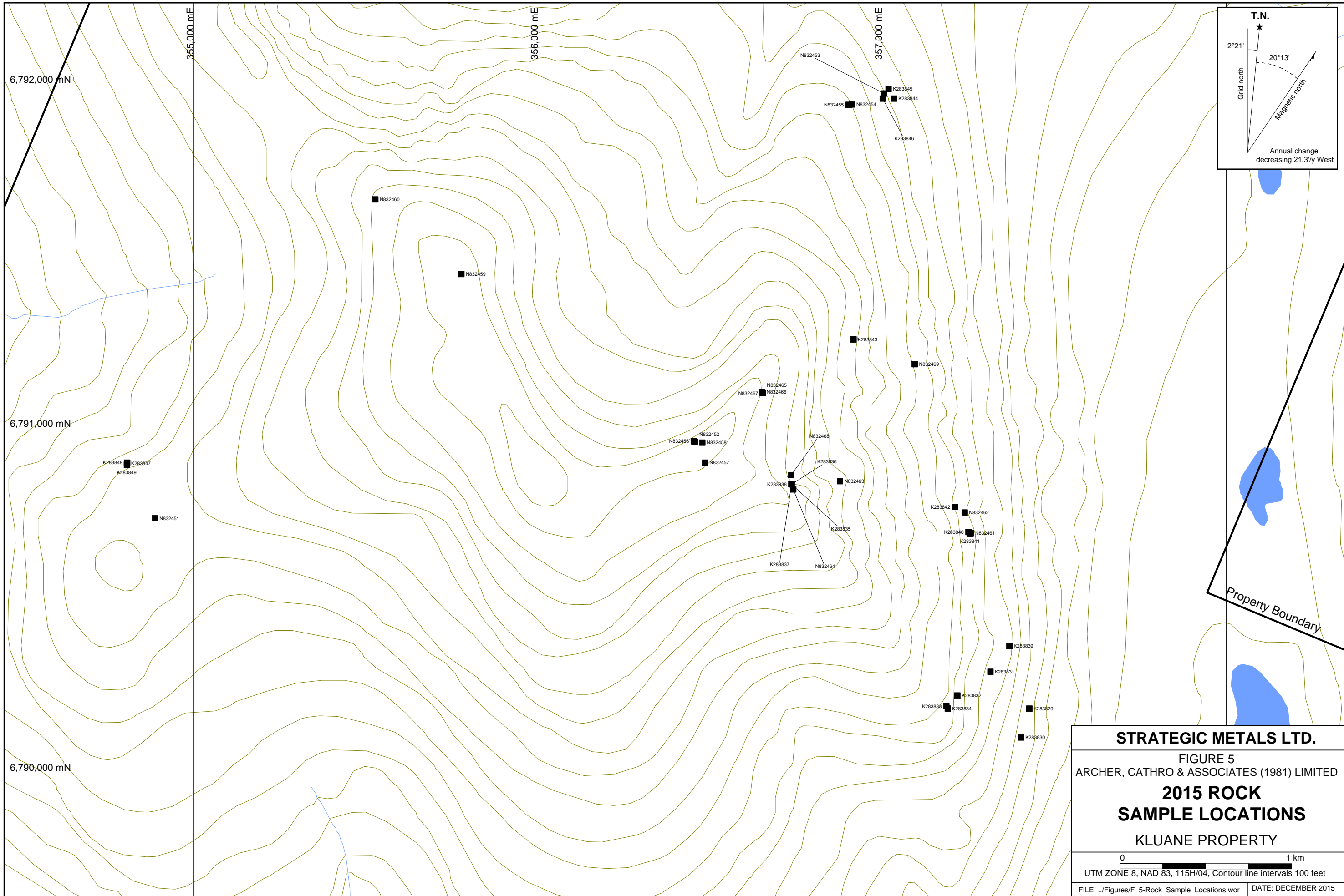
The locations of 40 rock samples collected from the Kluane property in 2015 are illustrated on Figure 5. The various zones and showings, diamond drills holes and thematic gold and arsenic results for rock samples are shown on Figures 6 and 7, respectively.

Rock geochemical sample sites on the property were marked with orange flagging tape labelled with the sample number. The location of each sample was determined using a handheld GPS unit. Rock sample preparation and multi-element analyses were carried out at ALS Minerals laboratories in Whitehorse, Yukon and North Vancouver, BC, respectively. Each sample was dried, fine crushed to better than 70% passing 2 mm and then a 250 g split was pulverized to better than 85% passing 75 microns. The fine fraction was analyzed for 48 elements using an aqua regia digestion followed by inductively coupled plasma combined with mass spectroscopy and atomic emission spectroscopy (ME-MS61). An additional 30 g charge was further analyzed for gold by fire assay followed by atomic absorption spectroscopy (Au-AA24). Rock Sample Descriptions and Certificates of Analysis for the 2015 samples are provided in Appendices III and IV, respectively.

The 2015 work program focused on the northern part of the property, in an area underlain by Ruby Range Batholith. The program identified two new areas of gold-bearing quartz-carbonate veins: the Slayer and Metallica showings. Descriptions of all zones and showings on the Kluane property are provided in the following paragraphs.

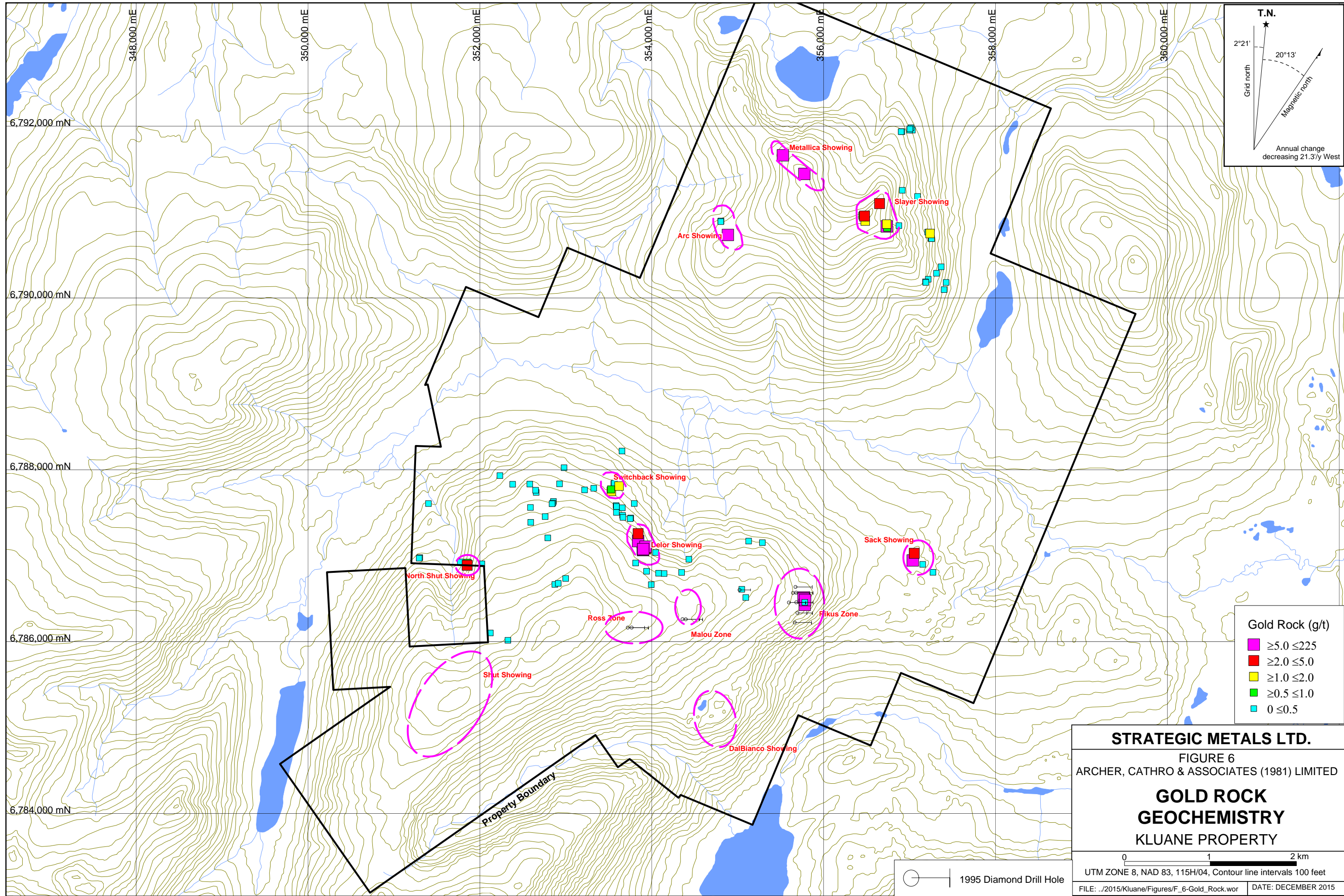
The **Rikus Zone** lies on a moderately steep, south-facing slope in the eastern part of the claim block. It is one of three zones that have been drilled. The zone consists of two sub-parallel veins located about 50 m apart, plus smaller veins and veinlets in the adjacent wallrock. The two main veins contain massive milky white quartz bands featuring microfractures that parallel the vein-wallrock contacts. The quartz bands range from 8 to 75 cm in width and contain trace to 20% fine-grained arsenopyrite with trace pyrite and rare grains of native gold. At surface, scorodite and limonite replace sulphide minerals. Although the quartz bands are often narrow, they are generally high grade. The veins often contain clay-altered gouge and are commonly flanked by weakly clay-altered halos that are up to two metres wide. Mineralization has been traced over a length of 700 m, and the zone is open to extension along strike to the north and south.

In 1995, eight diamond drill holes were completed on five section lines spaced 100 m apart in the north-central part of this zone. All eight of the holes intersected one or more mineralized intervals. Table I shows the drilling highlights from 1995.



**STRATEGIC METALS LTD.**  
 FIGURE 5  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**2015 ROCK  
 SAMPLE LOCATIONS**  
 KLUANE PROPERTY

0 1 km  
 UTM ZONE 8, NAD 83, 115H/04, Contour line intervals 100 feet  
 FILE: ../Figures/F\_5-Rock\_Sample\_Locations.wor DATE: DECEMBER 2015



T.N.  
 2°21'  
 Grid north  
 20°13'  
 Magnetic north  
 Annual change decreasing 21.3/y West

**Gold Rock (g/t)**

█	≥5.0 ≤225
█	≥2.0 ≤5.0
█	≥1.0 ≤2.0
█	≥0.5 ≤1.0
█	0 ≤0.5

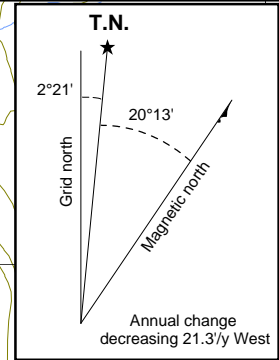
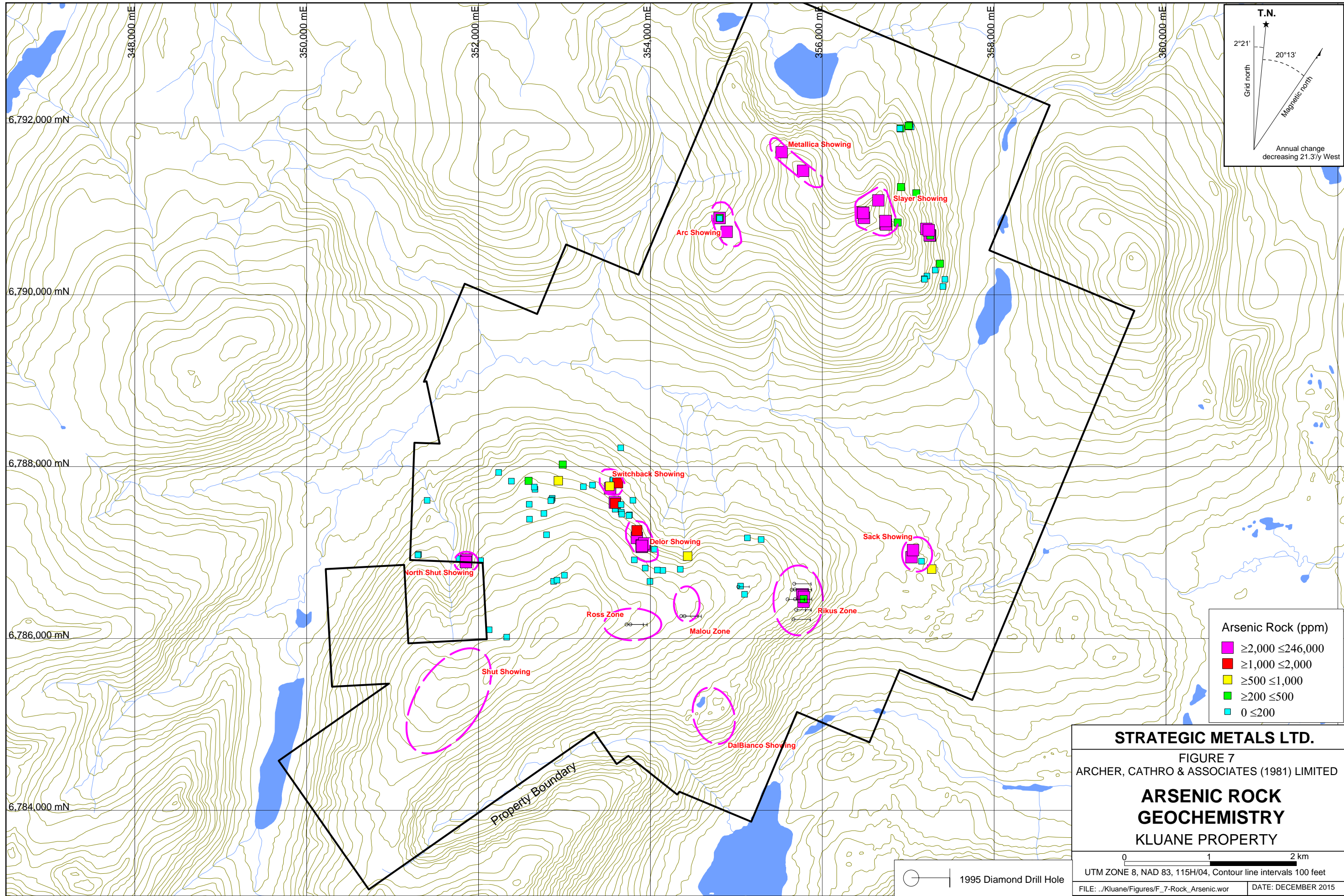
**STRATEGIC METALS LTD.**  
 FIGURE 6  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**GOLD ROCK  
 GEOCHEMISTRY**  
 KLUANE PROPERTY

0 1 2 km  
 UTM ZONE 8, NAD 83, 115H/04, Contour line intervals 100 feet  
 FILE: ../2015/Kluane/Figures/F\_6-Gold\_Rock.wor DATE: DECEMBER 2015

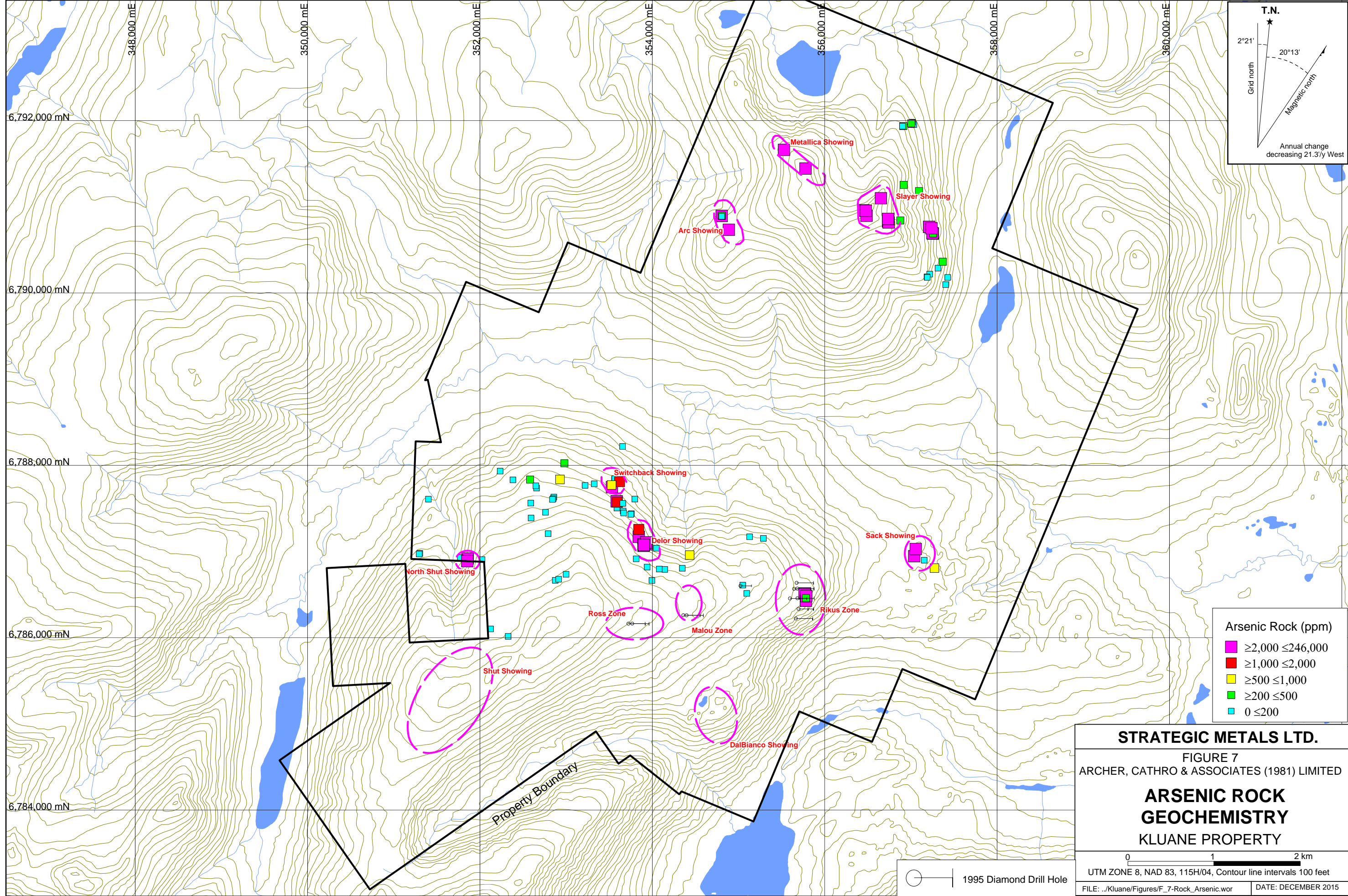
○ — 1995 Diamond Drill Hole

Property Boundary





Property Boundary



**Table I: Significant drill intersections from the Rikus Zone**

Hole Number	Coordinates		Length (m)	Azimuth (°)	Dip (°)	From (m)	To (m)	Width (m)	Uncut Grade Gold (g/t)	
	N	E								
95-1	10+000	10+000	162.76	090	-50	36.45	37.45	1.00	4.20	
						45.94	49.99	4.05	2.92	
						including	46.94	47.07	0.13	80.00
						54.56	56.08	1.52	1.19	
						79.44	80.44	1.00	1.89	
						84.17	93.43	9.26	1.03	
						including	92.15	93.43	1.28	4.79
95-2	9+900	10+023	141.43	090	-50	32.07	34.75	2.68	1.32	
						39.32	40.23	0.91	4.49	
						64.55	68.88	4.33	2.11	
						81.99	82.99	1.00	1.50	
95-3	9+900	10+022	170.08	090	-75	32.92	35.96	3.04	1.05	
						46.63	48.62	1.99	2.49	
						68.27	75.07	6.80	2.83	
						including	71.32	74.07	2.75	5.32
						including	73.97	74.07	0.10	54.00
95-4	10+105	9+984	148.44	090	-50	31.78	35.58	3.80	2.29	
						61.87	65.19	3.32	2.72	
						including	65.11	65.19	0.08	48.60
95-5	10+192	9+982	134.72	090	-50	48.46	50.44	1.98	1.69	
95-12	9+785	9+976	145.39	090	-50	32.38	33.57	1.19	4.56	
						including	32.38	32.57	0.19	29.19
						68.05	69.15	1.10	1.49	
						including	69.05	69.15	0.10	10.60
						including	71.69	72.89	1.20	1.87
including	71.69	71.89	0.20	9.26						
95-13	10+001	9+900	224.64	090	-50	99.27	100.44	1.17	2.01	
						150.47	154.54	4.07	1.95	
						including	150.47	151.47	1.00	4.69
95-14	10+105	9+939	156.36	090	-60	72.11	74.25	2.14	1.63	
						142.64	144.12	1.48	3.06	

In drill core, quartz bands are up to 20 cm thick and contain up to 20% arsenopyrite. Altered wallrocks are bleached and chloritized, and they typically exhibit disseminated fine-grained

arsenopyrite and calcite. The degree of alteration is proportional to the degree of fracturing and the abundance of quartz veinlets.

The highest grade intercept was 80.00 g/t gold over 13 cm, which was intersected in hole 95-1. Five other intervals graded between 9.26 and 54.00 g/t gold across widths of 8 to 20 cm. The thickest intervals were 2.83 g/t gold over 6.80 m in Hole 95-3 and 1.03 g/t gold over 9.26 m in Hole 95-1. Fourteen core samples of altered wallrock taken on either side of the quartz bands returned a weighted average of 0.93 g/t gold over 1.35 m.

In 2002, mapping and sampling suggests that the best mineralized vein intervals occur adjacent to unmineralized cross faults. Immediately west of the northwest-trending cross fault that offsets the Rikus Zone, the vein widens to 75 cm of massive quartz. A chip sample across this exposure assayed 22.40 g/t gold. On the east side of this cross fault, the vein bifurcates into a swarm of sub-parallel, 0.5 to 2 cm veinlets. A chip sample across this vein swarm returned 7.37 g/t gold over 9.5 m. The cross fault is located between holes 95-2 and 95-12, but both holes did not adequately test the structure.

In 2009, confirmation chip sampling was done in four previously dug hand trenches located 25 to 230 m north of the cross fault described in the previous paragraph. The trenches were cleaned, mapped and sampled. Table II lists significant intervals from 2009 trench sampling at the Rikus Zone.

**Table II: 2009 Trench highlights from the Rikus Zone**

<b>Trench</b>	<b>From (mW)</b>	<b>To (mW)</b>	<b>Length (m)</b>	<b>Au (g/t)</b>
TR-KL-09-01	1.70	2.88	1.18	9.49
including	1.70	1.89	0.19	25.60
TR-KL-09-02	1.00	5.72	4.72	3.18
including	1.76	1.84	0.08	31.50
& including	4.90	5.11	0.21	38.40
TR-KL-09-03	1.50	3.60	2.10	6.67
including	3.18	3.38	0.20	36.50
TR-KL-09-04	0.00	2.29	2.29	3.72
including	1.00	1.29	0.29	13.05

In 2014, chip samples were taken across the surface traces of mineralized quartz veins exposed in two historical hand trenches near hole 95-1. Two chip samples from separate trenches both returned 51.6 g/t gold, over 28 cm and 30 cm. A specimen sample of quartz vein float collected along strike and to the north of the trenches returned 23.2 g/t gold.

The **Delor Showing** is situated about 2000 m west-northwest of the Rikus Zone and covers a 300 by 200 m area. This occurrence consists of one trenched bedrock exposure and boulders of quartz-carbonate vein material and mineralized garnet-rich orthogneiss wallrock. It is located on a frozen north-facing slope with no outcrop. Cursory sampling by prospectors included vein fragments collected in 1995 from frost heaves, which yielded up to 193.57 g/t gold (Wengzynowski, 1995).

In 2009, hand trenching targeted a previously unprospected recessive topographic linear that was traced for a length of over 200 m. Trenching failed to reach bedrock, but boulders of quartz vein and mineralized biotite schist/gneiss wallrock were sampled prior to sloughing of trench walls. Seven samples of quartz-carbonate vein with scorodite and arsenopyrite returned between 8.61 and 50.20 g/t gold (Turner, 2010).

In 2014, the 2009 hand trench was re-opened and bedrock was reached. Prior to exposing bedrock, a number of samples were collected from loose rocks removed from the trench. One of these samples yielded 225 g/t gold. A chip sample collected across an arsenopyrite-bearing quartz vein exposed on the trench floor returned 9.22 g/t gold over two metres (Burrell, 2014).

Prospecting along strike from the vein exposed in the trench resulted in the discovery of additional mineralized quartz vein float. Three samples collected about 200 m northwest of the trench returned 3.33, 8.92 and 12.75 g/t gold, respectively (Burrell, 2014).

The **DalBianco Showing** is located 1000 m southwest of the Rikus Zone. No drilling has been done at this occurrence, but hand trenching was performed at various times between 1987 and 2009. The DalBianco Showing comprises three sub-parallel veins, about 100 m apart, which have been traced for 350 m along strike. The veins consist of barren to moderately mineralized quartz-carbonate gangue flanked by one to three metre wide, weakly silicified and rusty alteration halos that host minor disseminated arsenopyrite. Mineralization within the quartz-carbonate occurs as 5 to 35 cm wide bands of coarse grained arsenopyrite. Chip samples of arsenopyrite-rich quartz-carbonate assayed up to 41.07 g/t gold across 15 cm, but most returned less than 9 g/t gold. Gold assays from the weakly mineralized halos normally returned between 0.20 and 1.00 g/t, but yielded up to 2.26 g/t (Wengyznowski, 1995). Gold to arsenic ratios in this showing are the lowest on the property.

The **Ross Zone** is located 2100 m west of the Rikus Zone. This zone is marked by a small soil geochemical anomaly. In 1995, the anomaly was tested by two excavator trenches and three diamond drill holes.

Trenching exposed a one metre wide mineralized structure consisting of light grey to dark brown clay gouge, small quartz clasts and angular wallrock fragments. The first trench returned 19.06 g/t gold over one metre, but the other trench, which is situated 100 m to the south, did not expose significant mineralization (Becker, 1996).

The diamond drill holes targeted down-dip projections of the mineralized structure that was exposed in the first trench. The first hole was abandoned short of the target. The second hole was drilled from the same site, with the same azimuth, but at a slightly steeper angle. It intersected a section of clay gouge with quartz clasts, which assayed 4.16 g/t gold over 1.44 m. Only 27% of the material from this interval was recovered. The third hole was collared 50 m west of the other holes. It intersected weakly mineralized structures near the top of the hole, which are correlated with subsidiary structures encountered near the tops of the first two holes, but it failed to intersect the main vein (Becker, 1996).

The **Malou Zone** lies between the Ross and Rikus zones. It is marked by two areas of anomalous soil geochemical response and three recessive topographic linears (L1 to L3). In 1995, nine excavator trenches and three diamond drill holes tested this zone. Trenching across L1 identified a 30 cm wide band of stockwork quartz-arsenopyrite veinlets within strongly altered wallrock. At surface, the altered wallrock comprises white clay gouge surrounding one to five centimetre wide quartz bands with up to 15% coarse grained arsenopyrite. A chip sample from one trench across the zone returned 1.39 g/t gold over 30 cm, but two other trenches, located 105 m and 250 m to the north, failed to expose the mineralized structure.

Two diamond drill holes tested the down-dip projection of the vein exposed in L1. The first hole intersected strongly altered biotite schist hosting a stockwork of <1 mm wide quartz-arsenopyrite veinlets, which returned 2.74 g/t gold over 33 cm. The other hole intersected quartz-arsenopyrite veins and stockwork veinlets within weakly altered wallrock, but returned near background gold values (Becker, 1996).

The second recessive linear (L2) at the Malou Zone is located 600 m east of L1. Bedrock beneath this linear hosts a one metre wide band of altered and brecciated wallrock containing a stockwork zone of narrow quartz-arsenopyrite veinlets and a three to five centimetre wide quartz-arsenopyrite vein. A composite sample of five vein float fragments collected in the vicinity of L2 returned 5.31 g/t gold, but a sample of mineralized vein material from a trench dug at this site returned only slightly anomalous gold values. A drill hole that tested below this trench intercepted altered and brecciated biotite schist with narrow quartz veinlets, including a 3.5 cm wide quartz-arsenopyrite vein. Results from this hole included 1.06 g/t gold over 1.13 m (Becker, 1996). Two other trenches located 100 m north and south of the drill collar did not intersect mineralization.

Trenches dug across the third recessive linear (L3) and other geochemical anomalies at the Malou Zone failed to intersect significant mineralization and returned low gold assays.

The **Sack Showing** lies 1400 m east of the Rikus Zone and is the easternmost occurrence on the property. It is located on a broad hummock separating two glacial valleys. In 1995, mineralized vein float was discovered along a series of poorly exposed recessive topographic linears. These samples yielded gold values ranging from 3 to 9 g/t (Becker, 1996). In 2014, another two samples were collected from bedrock at the Sack Showing, which returned 6.85 and 2.48 g/t gold (Burrell, 2014). The Sack Showing is arsenopyrite-rich and most resembles the DalBianco Showing.

The **Switchback Showing** is located 700 m north of the Delor Showing and lies on a vegetated north-facing slope. This occurrence comprises a small talus train of weakly mineralized quartz and altered biotite schist/gneiss. There is no outcrop in the area. Historically, 12 samples of weakly mineralized quartz vein material and wallrock were collected. These samples yielded 0.15 to 10.15 g/t gold (Eaton, 2003).

The **Shut Showing** lies about three kilometres southwest of the Delor Showing. Mineralization at the Shut Showing is hosted in milky white, glassy or grey quartz-carbonate veins containing 2 to 20% fine grained disseminated arsenopyrite and rare galena. In 1994, four of 20 quartz

specimen samples collected over a length of 2500 m along Shut Creek returned greater than 80 g/t gold, while the arithmetic average grade for all 20 samples was 21 g/t gold (Wengzynowski, 1995). Follow up sampling of additional quartz-carbonate vein float produced assays of 103 and 122 g/t gold (Eaton, 2003).

The **North Shut Showing** was discovered in 2014. It is located about two kilometres west of the Delor Showing and two kilometres north of the Shut Showing. A specimen sample of arsenopyrite-rich quartz vein float returned 2.39 g/t gold (Burrell, 2014).

The **Arc Showing** is located in the northern part of the property, about 3.5 km north of the Delor Showing. It is underlain by the Ruby Range Batholith and was discovered by J. P. Ross in 1988. Two hand trenches, located 180 m apart, exposed gold-bearing quartz-carbonate vein float within a prominent recessive linear. Both trenches failed to reach bedrock.

In 2015, a sample from one of the historical trenches, which comprised chlorite- and clay-altered fault breccia, with angular white quartz clasts, returned 9.95 g/t gold.

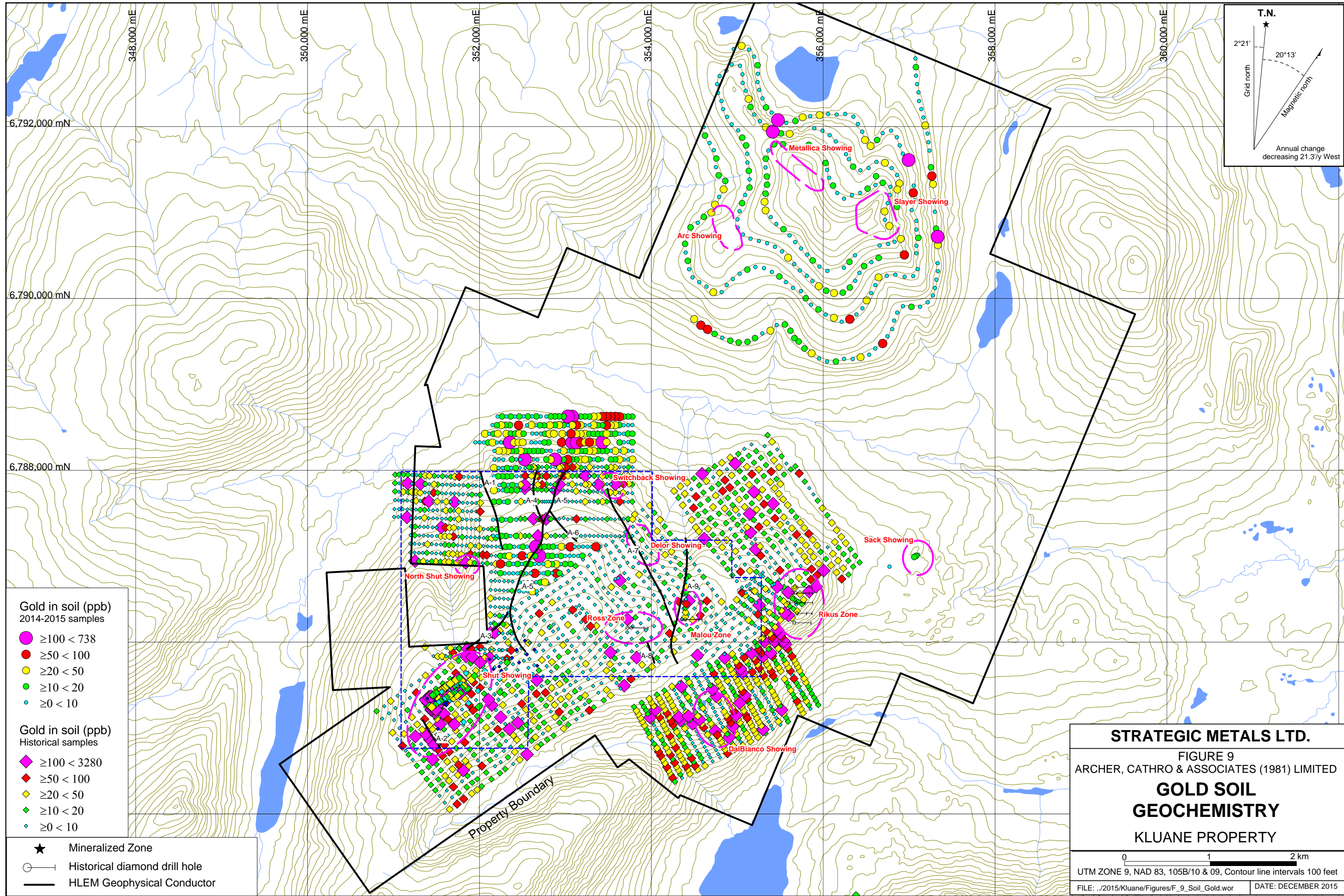
The **Metallica Showing** is located about 1000 m northeast of the Arc Showing, along a northwest trending ridge. In 2015, mineralized float was discovered in a subtle recessive topographic linear with an approximate strike of 130°. Two composite samples, consisting of scorodite-stained quartz float with bands and clots of arsenopyrite, were collected from the linear about 330 m apart. These samples yielded values of 8.71 and 5.69 g/t gold, and 55.3 and 77.7 g/t silver, respectively.

The **Slayer Showing** was also discovered in 2015, and features two north-northwest striking sub-parallel quartz-carbonate veins. The occurrence is located about 880 m southeast of the Metallica Showing. A sample from the eastern vein, comprising scorodite-stained quartz with 20% banded fine- to medium-grained arsenopyrite and 1% medium- to coarse-grained galena, yielded 11.8 g/t gold and 89 g/t silver. A 10 cm wide chip sample of the same vein, collected 280 m to the north-northwest, returned 3.9 g/t gold and 107 g/t silver. Samples collected from the second vein returned up to 2.31 g/t gold and 63 g/t silver.

### **SOIL GEOCHEMISTRY**

In 2015, a total of 274 soil samples were collected from widely spaced contour lines in the northern part of the property, near the Arc, Metallica and Slayer showings. The 2015 sample locations are shown on Figure 8, while gold and arsenic results from all geochemical programs are illustrated thematically on Figures 9 to 10, respectively. Certificates of Analysis for the 2015 samples are provided in Appendix IV.

The 2015 soil sample locations were recorded using hand-held GPS units. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. Soil samples were collected from 5 to 75 cm deep holes dug by hand-held auger. They were placed into individually pre-numbered Kraft paper bags. The soil samples were sent to ALS Minerals in Whitehorse, where they were dried and screened to -180 microns. The fine fractions were then shipped to ALS Minerals in North Vancouver where they



**Gold in soil (ppb)**  
2014-2015 samples

- $\geq 100 < 738$
- $\geq 50 < 100$
- $\geq 20 < 50$
- $\geq 10 < 20$
- $\geq 0 < 10$

**Gold in soil (ppb)**  
Historical samples

- ◆  $\geq 100 < 3280$
- ◆  $\geq 50 < 100$
- ◆  $\geq 20 < 50$
- ◆  $\geq 10 < 20$
- ◆  $\geq 0 < 10$

- ★ Mineralized Zone
- Historical diamond drill hole
- HLEM Geophysical Conductor

**STRATEGIC METALS LTD.**

FIGURE 9  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

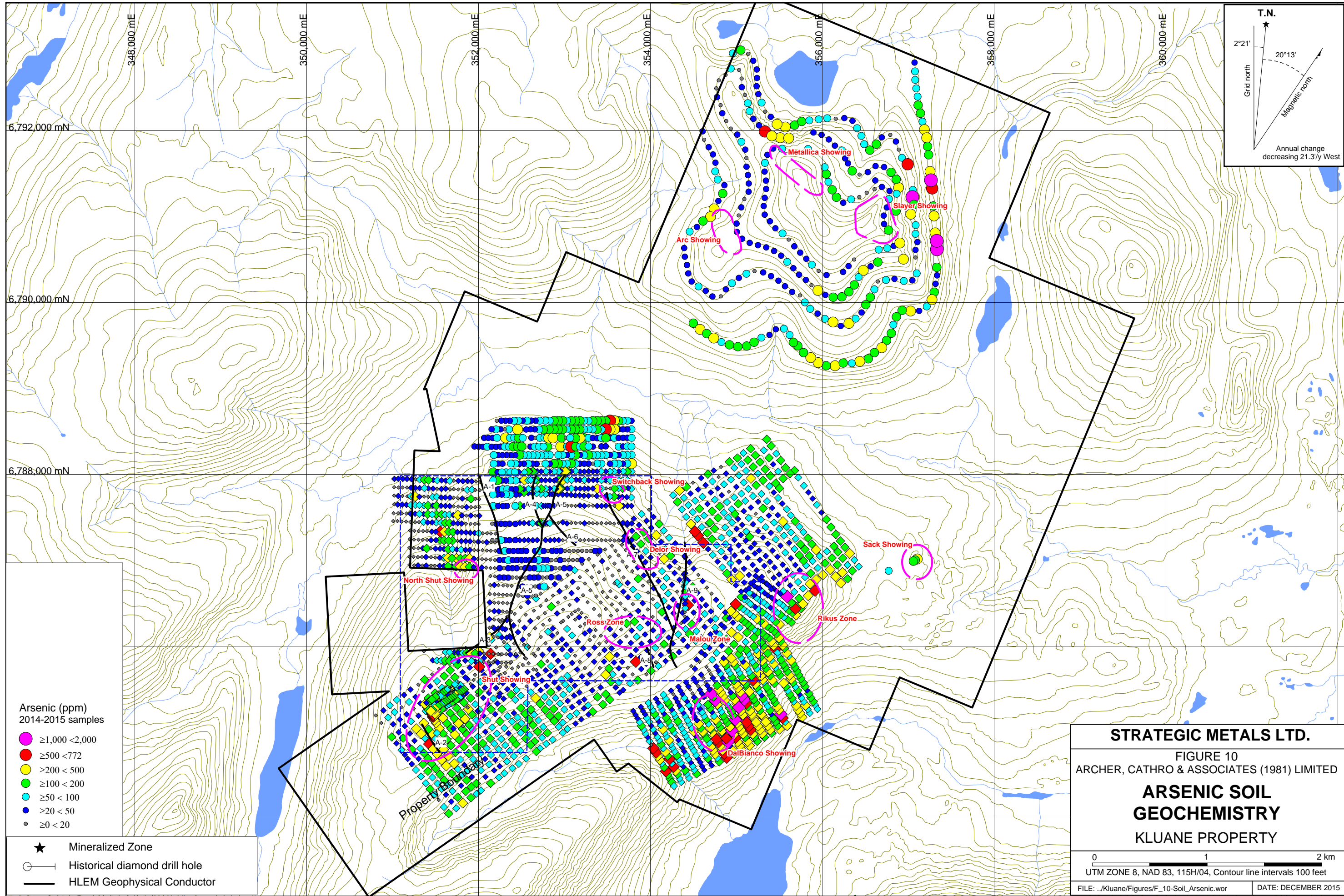
**GOLD SOIL  
GEOCHEMISTRY**

**KLUANE PROPERTY**

0 1 2 km

UTM ZONE 9, NAD 83, 105B/10 & 09, Contour line intervals 100 feet

FILE: ../2015/Kluane/Figures/F\_9\_Soil\_Gold.wor DATE: DECEMBER 2015



**Arsenic (ppm)**  
2014-2015 samples

- $\geq 1,000 < 2,000$
- $\geq 500 < 772$
- $\geq 200 < 500$
- $\geq 100 < 200$
- $\geq 50 < 100$
- $\geq 20 < 50$
- $\geq 0 < 20$

- ★ Mineralized Zone
- Historical diamond drill hole
- HLEM Geophysical Conductor

**STRATEGIC METALS LTD.**  
 FIGURE 10  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**ARSENIC SOIL  
 GEOCHEMISTRY**  
 KLUANE PROPERTY

0 1 2 km  
 UTM ZONE 8, NAD 83, 115H/04, Contour line intervals 100 feet  
 FILE: ../Kluane/Figures/F\_10-Soil\_Arsenic.wor DATE: DECEMBER 2015



were analysed for 35 elements using the inductively coupled plasma-atomic emission spectroscopy technique (ME-ICP41). An additional 30 g charge was further analysed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-ICP21). Anomalous thresholds and peak values for gold and arsenic are listed in Table III.

**Table III: Soil geochemical thresholds and peak values**

Element	Anomalous Thresholds				Peak Values	
	Weak	Moderate	Strong	Very Strong	2015	Historical
Gold (ppb)	≥ 10 < 20	≥ 20 < 50	≥ 50 < 100	≥100	276	3,284
Arsenic (ppm)	≥ 100 < 200	≥ 200 < 500	≥ 500 < 1000	≥1000	3,070	7,350

Soil sampling has identified a 2700 by 500 m wide, northeast-trending gold- and arsenic-in-soil anomaly that encompasses the **DalBianco Showing** and the **Rikus Zone**.

A smaller cluster of elevated gold and arsenic soil values at the **Malou Zone** is coincident with a strong HLEM geophysical conductor (A-9).

The **Shut Showing** is marked by a broad area of scattered strongly anomalous gold-in-soil values with moderately anomalous arsenic support.

Scattered strongly anomalous gold soil values are also found in the vicinity of the **Ross Zone**, with a subdued response for arsenic.

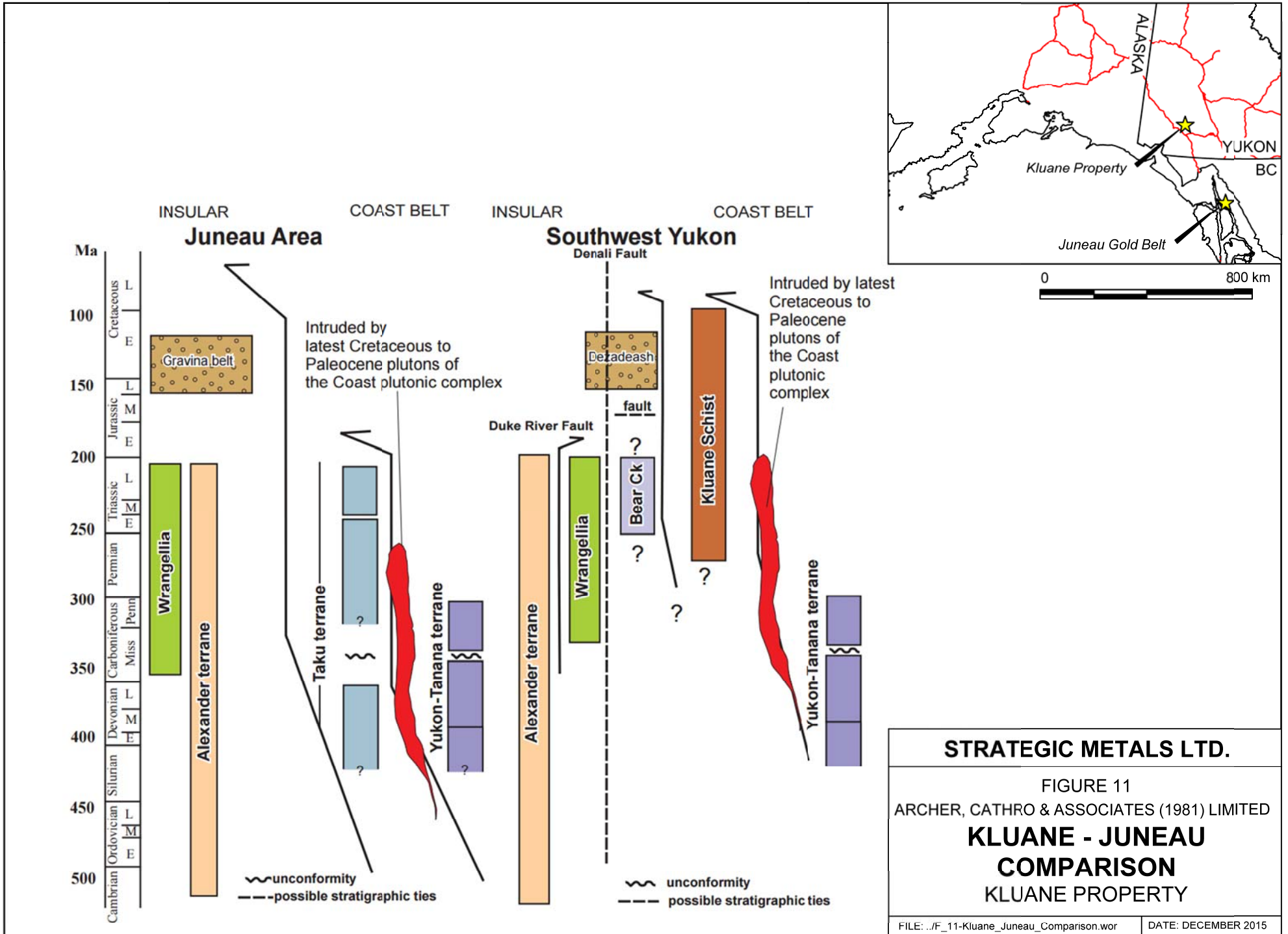
Soil sampling at the **Switchback Zone** returned numerous strongly elevated gold-in-soil values along trend from HLEM conductors A-4 and A-5. The strongly elevated values extend to the northern edge of the grid, which suggests the mineralization continues northward onto the valley floor.

In 2015, contour soil sampling yielded scattered coincident gold- and arsenic-in-soil anomalies downslope and to the east of the **Slayer Showing**, and smaller clusters of elevated gold and arsenic response near the **Arc and Metallica** showings.

### **DEPOSIT TYPE**

The geological setting and mineralogy of the Kluane property closely resemble those of the orogenic gold deposits in the Juneau Gold Belt (JGB), which is located 400 km to the southwest in Alaska (Figure 11). The JGB is a 200 km long mining district, which encompasses several past-producing gold mines, as well as the active Kensington mine.

Gold vein occurrences in the JGB are hosted by volcano-sedimentary units and lesser intrusives of the Taku terrane, Wrangellia terrane, and western Gravina belt, which have been metamorphosed to greenschist grade as part of a protracted tectonic history. These terranes were accreted to and subducted under the North American continental margin from Cretaceous to Eocene time. Mineralization is associated with granitoid bodies of the Coast Mountain



**STRATEGIC METALS LTD.**

FIGURE 11  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**KLUANE - JUNEAU  
 COMPARISON**  
 KLUANE PROPERTY

FILE: ..\F\_11-Kluane\_Juneau\_Comparison.wor      DATE: DECEMBER 2015

Batholith, emplaced late in the orogenic cycle between 70 and 50 Ma (Goldfarb et. al, 1988). At the Kensington mine, gold occurs in quartz-carbonate veins, hosted in steeply dipping shear zones and subordinate extensional faults, which are best developed in the Late Cretaceous Jualin Diorite. Argon-Argon dates of 55.0 and  $55.5 \pm 0.3$  Ma from the gold-bearing veins indicates that mineralization was post peak-metamorphism (Miller et. al., 1995).

Orogenic gold deposits characteristically comprise moderately to steeply dipping quartz-carbonate veins hosted in a variety of greenschist grade metamorphic rocks. Veins occur in brittle-ductile shear zones and faults, often with flanking shallow-dipping extensional veins and breccias. Individual veins range from a few centimetres up to five metres in thickness. They have sharp wallrock contacts and commonly exhibit narrow, proximal alteration envelopes of sericite and iron-carbonate. Further away from the veins, alteration is characterized by chlorite, calcite and locally magnetite. Ore minerals generally consist of native gold with lesser pyrite and arsenopyrite, and minor galena, sphalerite, chalcopyrite, molybdenite, pyrrhotite and tellurides (Dubé and Gosselin, 2007).

The tectono-stratigraphic settings of the JGB and the Kluane property are very similar. In the JGB, metasedimentary and metavolcanic rocks correlative with Yukon-Tanana Terrane are thrust over late Paleozoic Taku Terrane, which itself is thrust over Jurassic to Cretaceous sedimentary rocks of the Gravina Belt. Near the Kluane property in southwest Yukon, Yukon-Tanana Terrane is thrust over the Kluane Schist, which is a Taku Terrane analog, and the Kluane Schist is interpreted to have been thrust over the Jurassic to Cretaceous Dezadeash Formation (Figure 11).

The timing of pluton emplacement and gold deposition at the Kluane property is coincident with age dates recorded in the JGB. Age determinations of the main intrusive phases of the Ruby Range Batholith, which occurs at the same structural level as the Coast Mountain Batholith, have yielded dates between 64 to 57 Ma (Israel et. al., 2010). In 2014, Argon-Argon dating of gold-bearing veins on the Kluane property returned an age of  $57.1 \pm 0.4$  Ma (Israel, S., pers. comm., 2015).

## **DISCUSSION AND CONCLUSIONS**

The Kluane property covers twelve, widely separated occurrences of high-grade gold veins, including three zones where drilling has intersected mineralization at depth. Soil sampling and geophysical surveying on the property have identified numerous untested geochemical anomalies and HLEM conductors.

The property shares a geological affinity with the Juneau Gold Belt in southeastern Alaska, and is highly prospective for orogenic-style gold mineralization.

Strategic Metals' 2015 program successfully identified two new showings, the Slayer and Metallica showings, and relocated the Arc Showing. All three showings are located in the northern part of the property, in an area underlain by Ruby Range Batholith. This area of the property has received only cursory exploration, and there is good potential for further discoveries.

Further work on the property is highly recommended. Soil sample coverage should be extended around areas of known mineralization, including the three showings located in the northern part of the property. HLEM surveys have been effective at identifying structures associated with mineralized veins, and additional surveys should be performed to extend coverage northward into areas underlain by Ruby Range Batholith. Detailed prospecting and hand trenching should be done along the length of HLEM conductors and around mineralized float occurrences that have received only cursory attention. Hand trenches dug by previous workers at the Arc Showing failed to reach bedrock, and they should be extended and deepened. Diamond drilling should be performed in areas where high-grade veins have been identified in trenches, such as the Delor Showing.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

A handwritten signature in blue ink, appearing to be 'J. Morton', written over a horizontal line.

J. Morton, B.Sc., GIT

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

## **STATEMENT OF QUALIFICATIONS**

I, Jack Morton, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Vancouver, British Columbia, hereby certify that:

1. I graduated from Simon Fraser University in 2013 with a B.Sc. in Earth Science.
2. From 2007 to present, I have been actively engaged in mineral exploration in Yukon Territory, British Columbia, and Northwest Territories
3. I am a Geoscientist in Training (G.I.T.) with the Association of Professional Engineers and Geoscientists of British Columbia.
4. I supervised the field program and have interpreted all data resulting from this work.



J. Morton, B.Sc., GIT



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

Statement of Expenditures  
274 Kluane property Mineral Claims  
December 8, 2015

Labour

D. Eaton (geologist) 14 hours April to November at \$120/hr	\$ 1,764.00
H. Burrell (geologist) 27 hours April to November at \$106/hr	3,005.10
J. Morton (geologist) 151 hours April to November at \$82/hr	13,001.10
A. Mitchell (geologist) 8 hours April to November at \$79/hr	663.60
R. Burke (field assistant) 56 hours April to November at \$49/hr	2,881.20
M. Kulla (field assistant) 56 hours April to November at \$43/hr	2,528.40
J. Mariacher (office) 8 3/4 hours April to November at \$90/hr	826.88
L. Corbett (expedite) 5 hours April to November 18 at \$81/hr	425.25
L. Smith (expedite) 27 hours April to November at \$69/hr	1,956.15
S. Newman (office) 4 1/2 hours April to November at \$64/hr	<u>302.40</u>
	27,354.08

Expenses (including management)

Field room and board – 23 mandays @ \$180/manday	4,678.20
Capital Helicopters – 5.7 hours Bell 206B at \$1,050/hr plus fuel	7,449.22
ALS Chemex	7,931.12
Truck rental and fuel	<u>406.79</u>
	20,465.33

Total \$47,819.41

314 samples at \$47,819.41 = \$152.29/sample

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

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**Rock Sample Descriptions**

---

Property: Kluane

Sample Number: K283829 UTM: 357428 mE Nad83, Zone 8  
Elevation: 1 m UTM: 6790182 mN

Comments: Float grab of white coarse grained to opaline quartz, with rusty-brown splotchy weathering, sparse limonite filling cavities, and laths of tourmaline and muscovite. No visible sulphides. Veins cut through diorite in subcrop and are up to 40 cm thick.

---

Sample Number: K283830 UTM: 357404 mE Nad83, Zone 8  
Elevation: 1450 m UTM: 6790098 mN

Comments: Subcrop sample of dark grey foliated quartz-biotite schist breccia, with cross-cutting quartz veinlets and yellow-green scorodite staining.

---

Sample Number: K283831 UTM: 357315 mE Nad83, Zone 8  
Elevation: 1536 m UTM: 6790289 mN

Comments: Float grab of crumbly salt-and-pepper, punky weathering medium grained hornblende-biotite diorite, with disseminated limonite throughout, trace disseminated very fine grained pyrite, and sparse blebs of very fine grained chlorite.

---

Sample Number: K283832 UTM: 357219 mE Nad83, Zone 8  
Elevation: 1605 m UTM: 6790220 mN

Comments: Float grab of tan to white bull quartz.

---

Sample Number: K283833 UTM: 357187 mE Nad83, Zone 8  
Elevation: 1631 m UTM: 6790189 mN

Comments: Float grab of tan to orange weathering banded apilite? With thin dark and limonitic wisps, disseminated medium to coarse grained pyrite, limonite, and rare casts of medium grained tetrahedrite. Very abundant in a 20 x 20 metre area.

---

Sample Number: K283834 UTM: 357191 mE Nad83, Zone 8  
Elevation: 1628 m UTM: 6790182 mN

Comments: Float grab of rock with the same lithology as sample K283833, but without sulphide mineralization.,

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**Rock Sample Descriptions**Property: Kluane

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Sample Number: K283835 UTM: 356737 mE Nad83, Zone 8

Elevation: 1 m UTM: 6790834 mN

Comments: Outcrop sample of orange to brown weathering, pocky and limonitic quartz vein with yellow-green scorodite staining and 1% disseminated chalcopyrite.

---

Sample Number: K283836 UTM: 356737 mE Nad83, Zone 8

Elevation: 1 m UTM: 6790834 mN

Comments: Outcrop sample of brick-red weathering, silicified diorite?, with disseminated limonite and <1% chalcopyrite throughout, and thin wisps of black manganese?

---

Sample Number: K283837 UTM: 356737 mE Nad83, Zone 8

Elevation: 1309 m UTM: 6790834 mN

Comments: Outcrop sample of orange to brown weathering banded quartz vein and selvage, with interstitial fine grained chlorite, <1% fine grained chalcopyrite, 1% medium to coarse grained galena and ~15% fine to medium grained arsenopyrite.

---

Sample Number: K283838 UTM: 356737 mE Nad83, Zone 8

Elevation: 1307 m UTM: 6790834 mN

Comments: Outcrop sample of yellow-green scorodite stained banded quartz vein and selvage, with 1% medium to coarse grained galena and bands of fine to medium grained arsenopyrite comprising 20% of the sample.

---

Sample Number: K283839 UTM: 357370 mE Nad83, Zone 8

Elevation: 1505 m UTM: 6790364 mN

Comments: Subcrop grab of tan to orange stockwork quartz-diorite breccia, with coarse grains of biotite that weather rusty with trace very fine grained pyrite at the margins of the grains. Removed from a car-sized boulder.

---

Sample Number: K283840 UTM: 357251 mE Nad83, Zone 8

Elevation: 1 m UTM: 6790695 mN

Comments: Outcrop grab of pale green, waxy, banded and brecciated marble(?) with yellow-green scorodite staining on fracture surfaces, dark wisps and bands of fine grained arsenopyrite comprising 3% of the rock, and trace pyrite. Collected from historical trench A+02.

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**Rock Sample Descriptions**

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Property: Kluane

Sample Number: K283841 UTM: 357256 mE Nad83, Zone 8  
Elevation: 1581 m UTM: 6790691 mN

Comments: Outcrop grab of dark maroon-brown weathering, oxidized, limonitic, clay altered, pale green marble(?), with <1% fine grained pyrite and arsenopyrite as bands along vein selvages. Collected from historical trench A+02.

---

Sample Number: K283842 UTM: 357212 mE Nad83, Zone 8  
Elevation: 1589 m UTM: 6790768 mN

Comments: Subcrop grab of weathering orange and limonitic, pale green chlorite-altered quartz-carbonate, with trace arsenopyrite and pyrite. Removed from a shallow pit.

---

Sample Number: K283843 UTM: 356917 mE Nad83, Zone 8  
Elevation: 1761 m UTM: 6791255 mN

Comments: Composite grab of punky rusty-brown weathering, quartz-carbonate vein with 1% interstitial fine to coarse grained pyrite throughout and narrow wisps of limonite and sericite on selvages. Collected near the top of a 2 x 20 metre float train.

---

Sample Number: K283844 UTM: 357035 mE Nad83, Zone 8  
Elevation: 1597 m UTM: 6791955 mN

Comments: Float grab of orange weathering, blocky white bull quartz with a rusty tarnish, sparse manganese dendrites on fracture surfaces and interstitial medium grained muscovite. Removed from a 20 x 20 x 20 cm block and sourcing from a gully.

---

Sample Number: K283845 UTM: 357019 mE Nad83, Zone 8  
Elevation: 1606 m UTM: 6791983 mN

Comments: Float grab of brown weathering, pale white-green sparry/radiating quartz-carbonate. Sourcing from a gully.

---

Sample Number: K283846 UTM: 357002 mE Nad83, Zone 8  
Elevation: 1613 m UTM: 6791955 mN

Comments: Float grab of dark orange-brown and rusty, strongly altered quartz-biotite schist, with a 'cooked' appearance. This rock is much heavier than the surrounding rocks.

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**Rock Sample Descriptions**Property: Kluane

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Sample Number: K283847 UTM: 354806 mE Nad83, Zone 8  
Elevation: 1780 m UTM: 6790895 mN

Comments: Float grab of limonitic and brown weathering, clay-altered quartz vein and diorite selvage with 5% very fine grained arsenopyrite as bands, and thin black-brown wisps of manganese(?). No rep, and rock on site is not representative. Collected in the material removed from a 1.3 metre deep trench.

---

Sample Number: K283848 UTM: 354807 mE Nad83, Zone 8  
Elevation: 1782 m UTM: 6790897 mN

Comments: Float grab of orange weathering bull quartz, with a rusty tarnish and sparse disseminated very fine grained limonite throughout. Collected from the material removed from a 1.3 metre deep trench.

---

Sample Number: K283849 UTM: 354806 mE Nad83, Zone 8  
Elevation: 1777 m UTM: 6790890 mN

Comments: Float grab of orange weathering banded chalcedonic quartz, with limonite on fracture surfaces. Collected from the material removed from a 1.3 metre deep trench.

---

Sample Number: N832451 UTM: 354888 mE Nad83, Zone 8  
Elevation: 1797 m UTM: 6790735 mN

Comments: Float grab of limonitic and brown weathering, pale green chlorite and clay altered fault breccia, with angular white clasts of quartz. Sample on site is not representative. Collected in the material removed from a 0.8 metre deep trench.

---

Sample Number: N832452 UTM: 356457 mE Nad83, Zone 8  
Elevation: 2015 m UTM: 6790957 mN

Comments: Float grab of limonitic, punky and intensely yellow-green scorodite stained quartz vein breccia with disseminated limonitic pits throughout and trace medium grained pyrite. Removed from a shallow pit.

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Sample Number: N832453 UTM: 357006 mE Nad83, Zone 8  
Elevation: 1623 m UTM: 6791970 mN

Comments: Float grab of orange weathering bull quartz.

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**Rock Sample Descriptions**Property: Kluane

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Sample Number: N832454 UTM: 356913 mE Nad83, Zone 8

Elevation: 1669 m UTM: 6791938 mN

Comments: Composite sample of earthy, punky dark brown oxide (vein selvage?) removed from a shallow pit in a prominent linear.

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Sample Number: N832455 UTM: 356903 mE Nad83, Zone 8

Elevation: 1671 m UTM: 6791937 mN

Comments: Outcrop grab of tan weathering, pale green marble.

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Sample Number: N832456 UTM: 356453 mE Nad83, Zone 8

Elevation: 2016 m UTM: 6790959 mN

Comments: Float grab of dark chocolate brown to orange, punky and limonitic oxide of quartz vein with ~2% fine to coarse grained pyrite as clots and bands. Removed from a shallow pit.

---

Sample Number: N832457 UTM: 356486 mE Nad83, Zone 8

Elevation: 2014 m UTM: 6790897 mN

Comments: Composite sample of brown weathering, blue-grey banded quartz with sparse fine grained pyrite as clots and in thin limonitic wisps. Collected in the material removed from a historical pit.

---

Sample Number: N832458 UTM: 356478 mE Nad83, Zone 8

Elevation: 2015 m UTM: 6790955 mN

Comments: Composite sample of punky, rusty-brown weathering, yellow-green scorodite stained quartz-diorite selvage with sparse fine to medium grained pyrite.

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Sample Number: N832459 UTM: 355778 mE Nad83, Zone 8

Elevation: 2030 m UTM: 6791445 mN

Comments: Composite sample of punky yellow-green, scorodite stained, banded quartz with 1% arsenopyrite as bands and clots. No rep. Collected from a subtle linear.

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**Rock Sample Descriptions**

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Property: Kluane

Sample Number: N832460 UTM: 355528 mE Nad83, Zone 8  
Elevation: 1955 m UTM: 6791662 mN

Comments: Composite sample of punky yellow-green scorodite stained fragments of quartz vein selvage?

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Sample Number: N832461 UTM: 357258 mE Nad83, Zone 8  
Elevation: 1577 m UTM: 6790692 mN

Comments: Float grab of brown weathering, dark grey hornfels with trace very fine grained pyrrhotite(?). Rock is weakly magnetic. Collected next to historical trench A+02.

---

Sample Number: N832462 UTM: 357240 mE Nad83, Zone 8  
Elevation: 1588 m UTM: 6790752 mN

Comments: Float grab of a rock with the same lithology as sample K283840. No rep.

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Sample Number: N832463 UTM: 356878 mE Nad83, Zone 8  
Elevation: 1842 m UTM: 6790843 mN

Comments: Outcrop sample of orange weathering apilite with disseminated medium to coarse grained pyrite, and limonitic casts of pyrite throughout.

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Sample Number: N832464 UTM: 356742 mE Nad83, Zone 8  
Elevation: 1932 m UTM: 6790819 mN

Comments: Outcrop sample of orange-brown weathering and yellow-green scorodite stained, drusy quartz vein and selvage with 10% massive galena, 10% fine grained arsenopyrite, and <1% pyrite as bands.

---

Sample Number: N832465 UTM: 356653 mE Nad83, Zone 8  
Elevation: 1973 m UTM: 6791100 mN

Comments: 10cm chip sample across a mineralized quartz vein, with a strike and dip of 175/69 W, with the same lithology as sample N832464. No rep.

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**Rock Sample Descriptions**Property: Kluane

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Sample Number: N832466 UTM: 356652 mE Nad83, Zone 8  
Elevation: 1972 m UTM: 6791102 mN

Comments: 20cm chip sample across the west selvage of the mineralized quartz vein N832465, consisting of orange weathering, silica flooded, biotite quartz diorite. No rep.

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Sample Number: N832467 UTM: 356654 mE Nad83, Zone 8  
Elevation: 1975 m UTM: 6791099 mN

Comments: 20cm chip sample across the east selvage of the mineralized quartz vein N832465, with the same lithology as sample N832466. No rep.

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Sample Number: N832468 UTM: 356736 mE Nad83, Zone 8  
Elevation: 1918 m UTM: 6790861 mN

Comments: Subcrop grab of orange weathering and with a rusty tarnish, banded quartz vein with 5% fine to medium grained pyrite, and 3% fine grained arsenopyrite occurring as thin bands.

---

Sample Number: N832469 UTM: 357095 mE Nad83, Zone 8  
Elevation: 1664 m UTM: 6791183 mN

Comments: Outcrop sample of rusty orange-brown weathering, quartz-biotite schist with a dark 'cooked' appearance.

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



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 2103 Dollarton Hwy  
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 Plus Appendix Pages  
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 Account: ROCKHA

**CERTIFICATE WH15112753**

Project: KLUANE

This report is for 40 Rock samples submitted to our lab in Whitehorse, YT, Canada on 29-JUL-2015.

The following have access to data associated with this certificate:

HEATHER BURRELL JARED TARSWELL	MATT DUMALA	JOAN MARIACHER
-----------------------------------	-------------	----------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
BAG-06	Double Bagging Coarse Rejects
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Pb-OG62	Ore Grade Pb - Four Acid	VARIABLE
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE
As-OG62	Ore Grade As - Four Acid	VARIABLE
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
ME-MS61	48 element four acid ICP-MS	
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES

To: **ROCKHAVEN RESOURCES LTD.**  
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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



ALS Canada Ltd.  
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 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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**CERTIFICATE OF ANALYSIS WH15112753**

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA24	Au-GRA22	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
K283829		1.40	0.009		0.07	5.30	3.3	730	1.27	0.02	0.47	0.04	20.2	0.8	6	1.14
K283830		1.55	0.005		0.13	6.87	1.6	3210	1.46	0.03	2.11	0.04	31.1	3.3	37	1.53
K283831		1.38	<0.005		0.07	6.55	1.1	730	0.80	0.03	6.44	0.22	40.9	39.3	537	1.23
K283832		1.31	0.006		0.02	1.93	0.9	620	0.34	0.02	0.22	0.03	2.03	0.4	16	0.47
K283833		0.98	<0.005		0.29	6.84	28.2	2260	2.05	0.32	0.13	0.13	84.1	0.5	5	0.68
K283834		1.51	<0.005		0.42	6.97	6.3	2110	2.46	0.50	0.12	0.07	78.4	0.5	3	0.67
K283835		1.04	0.571		1.69	7.46	>10000	280	1.48	1.12	4.40	48.8	36.3	17.6	27	1.20
K283836		1.12	0.179		6.17	0.67	>10000	50	0.11	9.42	0.22	57.2	2.60	3.6	27	0.21
K283837		2.07	2.93		85.1	1.75	>10000	80	0.25	112.0	1.03	140.0	3.73	7.3	67	0.31
K283838		1.55	>10.0	11.80	>100	1.41	>10000	70	0.23	113.0	2.62	313	6.84	6.4	30	0.24
K283839		0.94	0.010		0.38	7.18	423	1880	1.50	0.57	1.73	0.93	21.9	3.0	11	1.98
K283840		1.47	0.309		3.20	2.57	>10000	160	0.31	10.85	4.71	15.65	7.20	17.8	68	0.47
K283841		0.98	0.152		10.40	6.35	>10000	240	0.70	17.95	2.69	178.5	19.20	21.0	128	0.94
K283842		1.43	0.114		2.19	2.31	>10000	160	0.32	3.80	5.20	49.0	18.80	4.0	11	0.51
K283843		1.08	0.049		1.20	5.07	285	470	1.33	2.78	12.20	0.87	44.3	15.1	15	1.38
K283844		1.30	<0.005		0.10	1.13	72.2	740	0.49	0.07	0.44	0.40	5.87	1.5	31	0.35
K283845		1.07	<0.005		0.06	6.99	12.5	2000	2.81	0.04	8.35	0.23	67.2	6.6	40	0.72
K283846		0.83	<0.005		0.17	7.16	27.8	890	1.40	0.14	6.83	0.40	88.9	22.6	296	2.28
K283847		0.62	0.393		1.60	4.44	>10000	520	0.61	9.89	0.47	0.50	31.3	19.2	15	0.69
K283848		0.96	0.019		0.36	0.72	344	80	0.20	0.15	0.07	0.35	2.59	0.7	16	0.28
K283849		1.07	0.008		0.12	8.68	81.7	790	0.70	0.09	0.19	0.15	3.71	0.6	10	2.05
N832451		0.56	9.85		11.90	0.14	>10000	30	0.05	144.0	0.01	0.24	0.53	1.6	7	<0.05
N832452		0.99	0.369		28.2	4.53	>10000	520	1.01	63.1	0.07	34.9	23.8	1.0	13	0.79
N832453		1.02	0.033		0.08	0.22	477	120	0.06	0.32	0.02	0.06	0.49	0.2	14	0.30
N832454		0.64	0.012		0.17	7.52	226	1560	1.41	0.22	2.24	0.88	53.5	13.1	35	1.32
N832455		1.50	<0.005		0.05	3.50	34.2	800	2.50	0.15	14.25	2.40	40.9	9.4	10	2.09
N832456		0.84	0.640		39.1	3.98	>10000	410	0.79	60.4	0.12	47.9	24.7	1.9	12	0.71
N832457		1.35	1.420		9.72	1.22	>10000	130	0.27	13.10	0.08	36.5	4.75	2.3	16	0.18
N832458		1.05	2.31		63.0	0.71	>10000	80	0.11	143.5	0.03	73.7	2.97	9.4	2	0.14
N832459		0.90	5.69		77.7	0.98	>10000	90	0.21	97.0	5.79	74.4	10.60	1.9	15	0.24
N832460		1.34	8.71		55.3	4.40	>10000	760	0.80	53.5	0.46	143.0	28.9	2.1	37	0.86
N832461		1.27	0.016		0.30	9.03	352	1080	0.71	0.36	5.25	0.67	38.9	25.8	43	2.17
N832462		0.60	1.245		7.80	3.95	>10000	280	0.61	29.4	2.21	75.4	29.2	16.0	38	1.14
N832463		1.11	0.031		0.36	7.20	443	2190	1.88	0.21	0.09	0.34	87.3	0.4	3	0.66
N832464		1.77	0.672		29.4	0.76	>10000	50	0.10	45.5	0.05	491	2.61	6.0	34	0.16
N832465		0.83	3.90		>100	1.93	>10000	280	0.45	14.65	0.08	167.0	14.60	7.6	10	0.41
N832466		1.19	0.005		0.63	8.20	391	1050	2.11	0.33	1.82	3.11	47.8	8.0	22	2.35
N832467		0.99	0.012		1.44	7.62	433	1700	1.52	0.23	1.80	6.35	40.5	6.4	19	2.85
N832468		1.74	1.085		27.7	2.50	>10000	160	0.36	45.5	2.02	31.4	11.60	7.9	21	0.49
N832469		1.16	<0.005		0.27	6.49	345	250	1.96	0.31	4.89	0.36	91.1	10.6	79	0.21



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CERTIFICATE OF ANALYSIS	WH15112753
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Sample Description	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	
	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	
	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	
K283829	6.9	0.60	13.65	0.09	0.5	<0.005	4.51	10.6	6.0	0.07	66	0.43	1.34	5.0	1.5	
K283830	28.1	2.93	18.30	0.11	0.2	0.024	3.31	15.6	15.4	0.70	321	7.70	1.85	14.8	4.9	
K283831	28.8	6.97	15.60	0.13	1.4	0.062	0.98	19.2	14.4	5.38	1300	0.40	1.61	9.7	31.5	
K283832	1.7	0.39	3.29	0.06	0.5	<0.005	1.54	1.1	2.9	0.03	44	0.18	0.45	0.7	1.3	
K283833	7.2	1.30	22.4	0.15	4.3	0.037	3.80	44.3	7.8	0.08	71	1.62	2.57	12.9	0.7	
K283834	7.8	1.37	22.6	0.30	5.0	0.046	3.88	38.5	9.8	0.07	80	2.02	2.67	12.2	<0.2	
K283835	22.3	6.11	24.3	0.34	0.6	0.107	3.22	15.7	24.2	1.50	2550	0.31	0.04	10.9	6.1	
K283836	38.2	3.31	2.81	0.18	0.1	1.155	0.27	1.1	5.1	0.14	264	0.28	0.01	0.6	1.0	
K283837	83.2	14.50	7.19	0.21	0.1	2.14	0.77	1.7	7.8	0.37	644	0.30	0.01	1.0	3.0	
K283838	148.0	9.67	5.36	0.16	0.1	3.24	0.70	3.2	6.4	0.18	1710	0.17	0.01	1.1	1.5	
K283839	12.3	1.83	18.05	0.11	0.5	0.032	4.02	10.4	13.6	0.38	274	0.34	2.10	4.6	1.8	
K283840	4.1	5.30	6.89	0.13	0.2	0.195	0.96	3.2	9.5	0.92	1610	0.42	0.02	1.5	3.5	
K283841	265	11.15	16.85	0.13	0.4	1.995	2.12	8.7	23.6	2.57	1470	0.82	0.03	3.6	6.2	
K283842	24.3	1.82	8.13	0.16	0.2	0.264	1.01	9.8	5.4	0.49	1380	0.17	0.03	2.3	1.3	
K283843	84.2	9.15	13.10	0.13	1.1	0.778	1.86	23.8	7.5	0.36	3460	0.23	0.09	5.7	8.6	
K283844	11.2	0.78	2.69	0.08	0.1	0.007	0.38	3.1	2.1	0.21	172	0.82	0.34	1.1	5.6	
K283845	11.4	2.54	16.45	0.16	0.8	0.046	2.25	29.9	4.6	2.37	868	1.30	1.55	13.5	16.4	
K283846	63.8	6.94	18.95	0.18	0.6	0.087	2.16	37.8	19.8	3.92	1260	2.63	2.26	31.6	63.4	
K283847	3.9	4.11	11.85	0.18	0.2	0.044	2.61	15.8	10.3	0.36	153	0.61	0.77	4.5	3.9	
K283848	11.7	0.64	1.57	0.08	0.1	0.007	0.45	1.1	1.6	0.02	60	0.29	0.20	0.7	1.1	
K283849	6.5	0.37	18.60	0.09	0.2	<0.005	4.63	1.7	1.4	0.03	62	0.14	1.72	1.8	0.8	
N832451	285	17.10	1.65	0.13	<0.1	0.116	0.05	<0.5	2.3	0.01	54	0.90	0.01	0.1	<0.2	
N832452	187.5	6.37	14.55	0.16	0.4	8.08	2.29	12.5	5.1	0.26	122	0.49	0.07	3.5	0.8	
N832453	2.6	0.48	0.52	0.07	<0.1	0.009	0.14	<0.5	7.0	<0.01	37	0.52	0.07	0.2	1.1	
N832454	18.8	4.30	17.10	0.15	0.4	0.057	2.44	25.5	6.3	0.84	2020	0.94	0.79	10.6	18.5	
N832455	2.6	3.50	9.39	0.11	1.3	0.081	0.86	21.3	16.9	8.24	1320	0.72	0.13	9.4	15.0	
N832456	413	9.63	13.55	0.15	0.3	7.05	2.04	13.0	5.7	0.26	165	0.63	0.05	2.9	0.8	
N832457	378	3.26	4.17	0.09	0.1	1.885	0.56	2.2	11.0	0.16	75	0.35	0.01	1.0	0.7	
N832458	1660	20.2	2.50	0.14	0.1	7.89	0.32	1.4	2.0	0.06	54	1.10	0.01	0.6	<0.2	
N832459	4660	14.30	3.21	0.12	0.1	8.04	0.28	5.4	2.6	0.20	3840	0.37	0.15	0.9	1.2	
N832460	603	10.65	13.85	0.12	0.3	4.48	2.22	14.2	11.0	0.60	318	0.60	0.22	4.1	1.7	
N832461	23.8	6.86	21.8	0.15	0.5	0.095	1.18	16.8	14.9	2.71	1080	1.21	1.96	9.5	6.6	
N832462	17.3	7.38	8.19	0.12	0.2	0.908	1.74	14.6	2.9	0.98	841	1.57	0.02	2.7	9.6	
N832463	13.0	1.35	20.2	0.17	5.0	0.038	3.65	45.2	8.8	0.06	97	1.30	2.75	12.6	1.1	
N832464	192.5	11.75	3.77	0.17	0.1	7.88	0.34	1.2	6.6	0.13	268	0.18	0.01	0.7	1.7	
N832465	771	7.33	5.52	0.11	0.1	0.582	0.96	7.6	8.9	0.16	219	0.89	0.14	1.7	1.7	
N832466	13.7	3.41	22.8	0.12	0.4	0.092	2.20	23.2	18.5	0.77	576	1.04	2.60	10.3	4.1	
N832467	24.3	3.14	19.30	0.15	0.4	0.055	2.99	18.7	14.9	0.67	509	0.51	2.23	8.3	3.8	
N832468	29.7	11.15	6.92	0.16	0.3	0.275	1.05	5.2	11.0	0.60	1060	0.85	0.02	2.4	1.6	
N832469	40.8	3.28	17.60	0.16	0.9	0.057	0.43	42.7	4.4	0.93	778	1.14	2.43	20.3	18.7	



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Project: KLUANE

**CERTIFICATE OF ANALYSIS WH15112753**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K283829		100	26.1	138.5	<0.002	0.01	0.11	1.0	1	0.3	135.0	0.70	<0.05	8.3	0.037	0.60
K283830		600	16.9	94.3	<0.002	0.26	0.09	4.9	1	0.7	488	0.69	0.06	3.1	0.346	0.51
K283831		1150	7.5	29.5	<0.002	0.01	0.10	42.8	2	1.0	430	0.48	<0.05	3.1	0.693	0.21
K283832		20	5.0	25.5	<0.002	<0.01	0.08	0.3	<1	<0.2	95.0	0.20	<0.05	10.5	0.016	0.13
K283833		120	42.2	104.5	<0.002	0.13	0.90	3.6	1	1.2	217	0.91	<0.05	12.2	0.068	0.55
K283834		100	35.5	91.3	<0.002	0.08	1.04	3.9	1	1.8	220	1.01	<0.05	12.2	0.068	0.62
K283835		1810	145.0	108.0	<0.002	1.70	48.5	18.2	2	23.6	128.0	0.62	<0.05	2.5	0.643	0.72
K283836		100	176.0	8.8	<0.002	1.61	34.9	2.1	1	2.2	6.1	<0.05	<0.05	0.3	0.044	0.09
K283837		180	5030	23.0	<0.002	7.76	209	4.6	2	6.1	37.6	0.06	0.05	0.3	0.078	0.23
K283838		220	8190	20.0	<0.002	6.63	154.0	3.0	2	5.6	53.1	0.06	0.05	0.7	0.072	0.18
K283839		500	45.5	86.7	<0.002	0.09	0.75	2.1	1	1.5	493	0.43	<0.05	5.8	0.197	0.51
K283840		340	301	24.1	<0.002	2.67	87.7	10.8	1	3.6	153.0	0.10	<0.05	0.6	0.151	0.16
K283841		830	561	49.9	<0.002	6.69	43.7	25.3	2	6.6	102.5	0.22	<0.05	1.2	0.371	0.30
K283842		380	299	25.8	<0.002	0.81	17.45	5.1	1	2.2	273	0.14	<0.05	2.1	0.164	0.15
K283843		260	15.7	74.7	<0.002	3.31	5.78	4.4	1	38.6	693	0.82	<0.05	17.2	0.088	0.47
K283844		30	6.4	14.2	<0.002	0.07	0.41	1.4	1	0.2	48.4	0.16	<0.05	4.6	0.021	0.08
K283845		770	10.3	52.2	0.002	0.02	0.18	7.0	1	1.3	838	1.25	<0.05	11.8	0.243	0.26
K283846		1280	9.1	109.5	0.002	0.15	0.43	23.9	2	1.3	524	2.10	0.07	6.4	1.185	0.64
K283847		430	45.6	55.5	<0.002	1.35	18.50	6.5	1	3.6	215	0.33	0.07	5.3	0.151	0.41
K283848		20	4.0	10.3	<0.002	0.01	0.92	0.3	<1	0.2	18.3	0.25	<0.05	1.8	0.011	0.07
K283849		20	49.4	93.6	<0.002	<0.01	0.31	0.4	<1	0.3	122.0	0.72	<0.05	2.3	0.011	1.16
N832451		190	33.2	1.3	<0.002	0.31	102.5	1.2	5	<0.2	3.7	<0.05	0.28	0.7	<0.005	0.02
N832452		320	225	66.7	<0.002	1.79	45.6	4.0	1	11.8	28.8	0.28	0.06	5.5	0.121	0.37
N832453		20	1.8	4.1	<0.002	0.01	0.38	0.1	<1	0.2	8.3	<0.05	<0.05	1.1	0.007	0.02
N832454		1130	26.0	83.4	<0.002	0.29	47.7	9.0	1	1.7	129.5	0.64	<0.05	6.9	0.427	0.51
N832455		370	2.4	34.9	<0.002	0.05	9.58	2.3	1	1.8	360	1.83	<0.05	25.6	0.056	0.22
N832456		330	226	60.4	<0.002	3.12	54.2	4.6	1	9.6	44.7	0.23	0.15	4.7	0.119	0.36
N832457		170	1105	13.7	<0.002	1.67	51.2	2.3	1	3.8	14.3	0.07	0.05	0.6	0.077	0.09
N832458		140	838	9.1	<0.002	>10.0	270	1.2	3	2.6	8.8	<0.05	0.27	0.3	0.042	0.07
N832459		520	2140	10.2	<0.002	3.20	601	4.2	2	1.2	213	0.06	0.12	1.4	0.065	0.10
N832460		930	5330	62.3	<0.002	0.57	151.5	10.2	1	8.2	371	0.26	0.14	3.9	0.250	0.47
N832461		1750	12.2	26.6	<0.002	0.37	3.06	25.8	1	0.6	679	0.44	<0.05	1.0	0.836	0.35
N832462		650	2880	51.8	<0.002	4.65	1385	5.8	2	3.4	199.0	0.15	0.05	3.2	0.189	0.43
N832463		90	39.2	111.0	<0.002	0.19	3.60	3.5	1	1.8	180.5	0.98	<0.05	13.5	0.068	0.76
N832464		110	1065	12.2	<0.002	8.03	131.0	2.5	2	2.7	13.0	<0.05	<0.05	0.3	0.048	0.14
N832465		170	>10000	27.1	<0.002	3.99	174.0	2.3	1	5.7	25.9	0.14	<0.05	2.1	0.059	0.47
N832466		800	97.8	71.5	<0.002	0.05	2.00	10.6	1	3.4	352	0.77	<0.05	8.2	0.351	0.47
N832467		660	267	84.2	<0.002	0.02	2.78	10.4	1	3.2	341	0.61	<0.05	6.9	0.294	0.54
N832468		360	1280	34.4	<0.002	6.13	131.5	5.4	2	6.8	58.8	0.15	0.08	0.9	0.164	0.28
N832469		560	22.8	9.1	<0.002	0.37	0.72	11.7	2	2.7	585	1.48	0.09	12.6	0.535	0.07



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 Account: ROCKHA

Project: KLUANE

**CERTIFICATE OF ANALYSIS WH15112753**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Pb-OG62	Zn-OG62	As-OG62
		U	V	W	Y	Zn	Zr	Ag	Pb	Zn	As
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
		0.1	1	0.1	0.1	2	0.5	1	0.001	0.001	0.001
K283829		2.6	4	0.1	6.9	10	13.0				
K283830		1.2	50	0.3	7.3	56	3.8				
K283831		0.5	254	0.2	23.9	105	35.5				
K283832		2.8	2	0.1	1.1	4	11.0				
K283833		3.7	2	1.7	15.0	65	151.0				
K283834		4.0	2	1.5	14.2	67	153.5				
K283835		0.8	114	49.0	19.2	8200	10.0				3.45
K283836		0.1	16	6.1	1.2	4930	2.6				2.63
K283837		0.2	38	8.5	2.4	8970	3.1				16.45
K283838		0.2	23	9.3	3.3	>10000	2.6	89		2.56	10.85
K283839		2.3	26	0.2	6.8	104	10.3				
K283840		0.1	96	7.5	4.7	1420	3.4				5.40
K283841		0.3	217	16.7	8.8	>10000	9.6			1.380	2.72
K283842		0.2	36	4.4	5.7	4330	4.9				0.997
K283843		4.7	25	0.9	13.7	144	33.2				
K283844		0.9	13	0.2	2.4	43	1.2				
K283845		4.0	67	0.6	25.7	86	17.0				
K283846		2.1	202	0.5	36.6	127	12.5				
K283847		2.0	29	3.1	6.8	33	3.5				3.93
K283848		1.2	2	0.1	1.7	15	2.1				
K283849		0.9	1	0.2	2.6	23	3.1				
N832451		0.3	10	0.1	0.2	20	<0.5				23.2
N832452		1.4	22	2.4	3.8	710	8.9				2.25
N832453		0.2	1	0.1	0.2	3	0.5				
N832454		1.2	100	1.2	11.0	217	10.4				
N832455		19.5	35	1.2	16.7	402	25.1				
N832456		1.7	28	2.6	4.9	1670	6.8				2.88
N832457		0.3	20	3.0	2.0	1800	1.3				2.16
N832458		0.6	10	4.0	1.5	3390	1.2				24.6
N832459		0.8	18	1.1	4.0	3960	5.5				18.80
N832460		0.8	88	3.3	8.2	2020	7.7				8.59
N832461		0.2	170	0.3	19.9	166	10.9				
N832462		0.4	50	7.8	6.7	6890	6.3				6.45
N832463		5.2	1	2.0	15.2	61	151.0				
N832464		0.2	18	11.9	0.9	>10000	3.1			3.27	12.05
N832465		1.9	12	3.1	4.1	>10000	2.5	107	1.830	1.200	5.89
N832466		2.9	51	1.2	17.5	333	5.7				
N832467		2.2	44	1.3	16.9	795	6.5				
N832468		0.4	38	8.7	5.2	2730	4.8				12.40
N832469		3.1	78	0.9	29.5	62	15.9				





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Project: KLUANE

**CERTIFICATE OF ANALYSIS WH15112753**

	<b>CERTIFICATE COMMENTS</b>								
Applies to Method:	<p style="text-align: center;"><b>ANALYTICAL COMMENTS</b></p> <p>REE's may not be totally soluble in this method.            ME-MS61</p>								
Applies to Method:	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">BAG-06</td> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	BAG-06	CRU-31	CRU-QC	LOG-21	PUL-31	PUL-QC	SPL-21	WEI-21
BAG-06	CRU-31	CRU-QC	LOG-21						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">Ag-OG62</td> <td style="width: 25%;">As-OG62</td> <td style="width: 25%;">Au-AA24</td> <td style="width: 25%;">Au-GRA22</td> </tr> <tr> <td>ME-MS61</td> <td>ME-OG62</td> <td>Pb-OG62</td> <td>Zn-OG62</td> </tr> </table>	Ag-OG62	As-OG62	Au-AA24	Au-GRA22	ME-MS61	ME-OG62	Pb-OG62	Zn-OG62
Ag-OG62	As-OG62	Au-AA24	Au-GRA22						
ME-MS61	ME-OG62	Pb-OG62	Zn-OG62						



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**CERTIFICATE WH15112761**

Project: KLUANE

This report is for 274 Soil samples submitted to our lab in Whitehorse, YT, Canada on 29-JUL-2015.

The following have access to data associated with this certificate:

HEATHER BURRELL JARED TARSWELL	MATT DUMALA	JOAN MARIACHER
-----------------------------------	-------------	----------------

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

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

To: **ROCKHAVEN RESOURCES LTD.**  
**ATTN: JOAN MARIACHER**  
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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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Sample Description	Method	WEI-21	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	Recvd Wt.	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOR	0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
ZZ101035		0.31	<0.2	2.34	14	<10	330	<0.5	<2	0.38	<0.5	13	41	26	3.23	10
ZZ101036		0.35	<0.2	2.15	30	<10	220	<0.5	2	0.28	<0.5	12	36	23	2.96	10
ZZ101037		0.32	<0.2	2.36	34	<10	280	<0.5	<2	0.30	<0.5	11	38	23	3.13	10
ZZ101038		0.29	<0.2	1.85	31	<10	150	<0.5	2	0.28	<0.5	11	37	26	3.02	10
ZZ101039		0.29	<0.2	1.80	17	<10	270	<0.5	<2	0.29	<0.5	12	32	20	2.93	10
ZZ101040		0.23	<0.2	2.47	64	<10	320	<0.5	2	0.43	<0.5	18	45	32	3.82	10
ZZ101041		0.26	<0.2	2.41	35	<10	300	<0.5	<2	0.37	<0.5	15	44	26	3.37	10
ZZ101042		0.20	<0.2	1.85	27	<10	230	<0.5	<2	0.55	<0.5	13	37	26	3.02	10
ZZ101043		0.26	<0.2	2.35	30	<10	320	<0.5	<2	0.58	<0.5	15	41	25	3.30	10
ZZ101044		0.25	<0.2	1.68	12	<10	580	<0.5	<2	0.58	<0.5	12	37	27	2.93	10
ZZ101045		0.29	0.2	2.82	65	<10	390	<0.5	<2	0.45	<0.5	18	49	26	3.78	10
ZZ101046		0.24	<0.2	2.39	27	<10	300	<0.5	<2	0.37	<0.5	15	45	22	3.39	10
ZZ101047		0.23	<0.2	2.17	33	<10	200	<0.5	<2	0.36	<0.5	13	40	25	3.29	10
ZZ101048		0.26	<0.2	2.26	27	<10	180	<0.5	3	0.25	<0.5	13	34	23	2.89	10
ZZ101049		0.27	<0.2	2.25	31	<10	270	<0.5	<2	0.44	<0.5	14	31	25	3.42	10
ZZ101050		0.33	<0.2	1.97	20	<10	210	<0.5	<2	0.39	<0.5	11	36	21	2.92	10
ZZ101069		0.21	<0.2	1.68	67	<10	250	<0.5	<2	0.51	<0.5	11	39	18	2.72	<10
ZZ101070		0.29	<0.2	1.80	54	<10	310	<0.5	<2	0.41	<0.5	13	38	20	3.03	10
ZZ101071		0.18	<0.2	1.90	39	<10	170	<0.5	<2	0.26	<0.5	12	33	22	3.26	10
ZZ101072		0.26	<0.2	1.81	163	<10	160	<0.5	<2	0.35	<0.5	16	41	33	3.22	10
ZZ101073		0.24	<0.2	1.81	45	<10	230	<0.5	2	0.51	<0.5	15	48	31	3.22	10
ZZ101074		0.25	<0.2	1.60	48	<10	200	<0.5	<2	0.47	<0.5	13	39	34	3.08	<10
ZZ101075		0.40	<0.2	2.64	45	<10	260	<0.5	2	0.44	<0.5	17	37	34	3.88	10
ZZ101076		0.38	<0.2	2.13	56	<10	210	<0.5	<2	0.46	<0.5	15	38	26	3.56	10
ZZ101077		0.28	<0.2	1.49	34	<10	130	<0.5	2	0.45	<0.5	15	35	32	2.91	<10
ZZ101078		0.38	<0.2	2.08	44	<10	180	<0.5	3	0.34	<0.5	14	26	21	3.56	10
ZZ101079		0.29	<0.2	2.16	27	<10	250	<0.5	3	0.31	<0.5	14	36	18	3.55	10
ZZ101080		0.27	<0.2	2.15	14	<10	220	<0.5	2	0.77	<0.5	15	115	23	3.40	10
ZZ101081		0.34	<0.2	2.04	15	<10	160	<0.5	3	0.28	<0.5	12	33	23	3.36	10
ZZ101082		0.26	<0.2	2.32	32	<10	340	<0.5	3	0.59	<0.5	17	36	29	4.00	10
ZZ101083		0.22	<0.2	2.40	35	<10	300	<0.5	<2	0.37	<0.5	16	44	24	3.78	10
ZZ101084		0.33	<0.2	2.21	23	<10	210	<0.5	<2	0.30	<0.5	13	37	23	3.07	10
ZZ101085		0.19	0.2	2.49	85	<10	230	0.5	2	0.58	<0.5	18	66	38	3.88	10
ZZ101086		0.27	<0.2	2.52	28	<10	220	<0.5	2	0.63	<0.5	17	71	31	3.76	10
ZZ101087		0.26	<0.2	2.33	46	<10	280	<0.5	<2	0.64	<0.5	16	57	33	4.02	10
ZZ101088		0.43	<0.2	2.80	61	<10	360	<0.5	<2	0.68	<0.5	28	108	77	5.75	10
ZZ101089		0.32	<0.2	2.11	84	<10	220	<0.5	2	0.50	<0.5	15	52	36	3.73	10
ZZ101090		0.30	<0.2	2.13	88	<10	200	<0.5	2	0.37	<0.5	17	48	34	3.81	10
ZZ101091		0.21	0.2	1.42	47	<10	230	<0.5	<2	0.68	0.7	16	29	25	2.54	10
ZZ101092		0.18	0.2	1.81	116	<10	250	<0.5	<2	0.45	<0.5	11	32	25	3.19	10



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

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 LIMITED  
 1016 - 510 W HASTINGS STREET  
 VANCOUVER BC V6B 1L8

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**CERTIFICATE OF ANALYSIS WH15112761**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	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
ZZ101035		<1	0.18	10	0.88	481	1	0.03	20	910	6	0.05	<2	3	34	<20
ZZ101036		<1	0.18	10	0.73	414	<1	0.02	20	580	6	0.04	<2	3	22	<20
ZZ101037		<1	0.24	10	0.83	385	1	0.02	21	640	10	0.04	2	3	26	<20
ZZ101038		<1	0.09	10	0.68	498	1	0.01	23	530	6	0.05	<2	2	24	<20
ZZ101039		<1	0.29	10	0.77	390	<1	0.02	17	630	6	0.04	<2	3	25	<20
ZZ101040		<1	0.25	10	1.02	653	<1	0.02	24	1010	9	0.08	<2	4	40	<20
ZZ101041		<1	0.25	10	0.94	548	1	0.03	23	830	6	0.06	<2	3	33	<20
ZZ101042		<1	0.24	10	0.88	445	<1	0.03	18	930	7	0.07	<2	3	37	<20
ZZ101043		<1	0.31	10	0.99	488	<1	0.04	20	1220	10	0.08	2	3	45	<20
ZZ101044		<1	0.08	10	0.63	658	1	0.02	21	1450	6	0.13	<2	2	48	<20
ZZ101045		<1	0.37	10	1.17	664	<1	0.04	23	920	15	0.04	<2	5	52	<20
ZZ101046		<1	0.29	10	1.09	422	<1	0.02	20	820	7	0.06	<2	3	43	<20
ZZ101047		<1	0.14	10	0.87	452	1	0.02	23	830	8	0.08	<2	3	35	<20
ZZ101048		<1	0.25	10	0.79	466	<1	0.02	21	480	6	0.04	<2	4	26	<20
ZZ101049		<1	0.38	10	0.96	562	<1	0.04	20	980	11	0.04	<2	4	45	<20
ZZ101050		<1	0.24	10	0.84	411	<1	0.02	20	940	6	0.03	<2	3	29	<20
ZZ101069		<1	0.34	10	0.79	373	<1	0.03	16	1110	9	0.07	<2	2	34	<20
ZZ101070		<1	0.39	10	0.85	390	<1	0.02	17	680	6	0.04	<2	3	31	<20
ZZ101071		<1	0.14	10	0.72	438	1	0.02	18	880	9	0.11	<2	2	24	<20
ZZ101072		<1	0.12	10	0.74	583	1	0.02	24	870	28	0.07	<2	3	32	<20
ZZ101073		<1	0.24	10	0.87	489	1	0.03	24	980	11	0.10	<2	3	39	<20
ZZ101074		<1	0.23	10	0.68	532	1	0.03	20	770	11	0.11	<2	3	34	<20
ZZ101075		<1	0.13	10	1.08	666	1	0.03	26	730	17	0.06	<2	4	75	<20
ZZ101076		<1	0.26	10	0.97	585	1	0.02	20	1030	18	0.06	<2	3	28	<20
ZZ101077		<1	0.14	10	0.61	626	1	0.03	23	880	11	0.11	<2	3	33	<20
ZZ101078		<1	0.36	10	0.96	464	<1	0.02	16	820	22	0.06	<2	3	36	<20
ZZ101079		<1	0.28	10	0.95	472	<1	0.02	19	460	9	0.03	<2	3	24	<20
ZZ101080		<1	0.29	10	1.50	564	<1	0.08	22	1430	8	0.05	<2	4	79	<20
ZZ101081		<1	0.17	10	0.85	439	1	0.02	22	700	7	0.06	<2	3	26	<20
ZZ101082		<1	0.34	10	1.14	622	<1	0.03	21	1560	15	0.07	<2	5	44	<20
ZZ101083		<1	0.36	10	1.03	678	<1	0.02	22	900	9	0.07	<2	4	39	<20
ZZ101084		<1	0.29	10	0.84	442	<1	0.02	22	690	7	0.04	<2	3	28	<20
ZZ101085		<1	0.29	10	1.14	820	1	0.03	35	1100	13	0.09	<2	5	59	<20
ZZ101086		<1	0.27	10	1.33	631	<1	0.03	36	1230	13	0.10	<2	4	61	<20
ZZ101087		<1	0.45	10	1.22	640	<1	0.03	37	1430	8	0.07	<2	5	44	<20
ZZ101088		<1	1.30	10	1.64	661	1	0.05	63	1060	10	0.35	<2	11	64	<20
ZZ101089		<1	0.34	10	1.05	551	1	0.02	30	1310	8	0.08	<2	4	34	<20
ZZ101090		<1	0.24	10	1.02	636	<1	0.02	29	1090	11	0.07	<2	4	32	<20
ZZ101091		1	0.11	10	0.54	1060	1	0.01	17	1250	7	0.17	<2	2	51	<20
ZZ101092		<1	0.22	10	0.70	591	1	0.02	17	970	10	0.10	3	4	38	<20



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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 LIMITED  
 1016 - 510 W HASTINGS STREET  
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**CERTIFICATE OF ANALYSIS WH15112761**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Au-ICP21
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Au ppm
		0.01	10	10	1	10	2	0.001
ZZ101035		0.18	<10	<10	71	<10	71	0.008
ZZ101036		0.17	<10	<10	66	<10	62	0.016
ZZ101037		0.21	<10	<10	70	<10	66	0.004
ZZ101038		0.10	<10	<10	67	<10	65	0.003
ZZ101039		0.21	<10	<10	62	<10	63	0.004
ZZ101040		0.19	<10	<10	82	<10	91	0.010
ZZ101041		0.19	<10	<10	74	<10	79	0.002
ZZ101042		0.19	<10	<10	67	<10	82	0.003
ZZ101043		0.20	<10	<10	73	<10	80	0.005
ZZ101044		0.08	<10	<10	64	<10	72	0.004
ZZ101045		0.21	<10	<10	81	<10	86	0.016
ZZ101046		0.18	<10	<10	73	<10	69	0.005
ZZ101047		0.12	<10	<10	69	<10	74	0.005
ZZ101048		0.16	<10	<10	62	<10	62	0.028
ZZ101049		0.20	<10	<10	68	<10	85	0.030
ZZ101050		0.16	<10	<10	62	<10	64	0.014
ZZ101069		0.17	<10	<10	62	<10	81	0.003
ZZ101070		0.20	<10	<10	64	<10	84	0.004
ZZ101071		0.12	<10	<10	70	<10	82	0.004
ZZ101072		0.13	<10	<10	67	<10	113	0.033
ZZ101073		0.18	<10	<10	70	<10	97	0.004
ZZ101074		0.16	<10	<10	63	<10	91	0.023
ZZ101075		0.20	<10	<10	72	<10	100	0.009
ZZ101076		0.20	<10	<10	76	<10	100	0.009
ZZ101077		0.11	<10	<10	60	<10	88	0.004
ZZ101078		0.23	<10	<10	76	<10	92	0.010
ZZ101079		0.24	<10	<10	77	<10	77	0.010
ZZ101080		0.19	<10	<10	74	<10	87	0.002
ZZ101081		0.19	<10	<10	76	<10	70	0.014
ZZ101082		0.20	<10	<10	80	<10	96	0.010
ZZ101083		0.20	<10	<10	81	<10	85	0.011
ZZ101084		0.17	<10	<10	66	<10	65	0.004
ZZ101085		0.15	<10	<10	85	<10	92	0.017
ZZ101086		0.17	<10	<10	84	<10	83	0.005
ZZ101087		0.26	<10	<10	88	<10	112	0.011
ZZ101088		0.46	<10	<10	120	<10	133	0.012
ZZ101089		0.23	<10	<10	84	<10	155	0.010
ZZ101090		0.19	<10	<10	84	<10	101	0.013
ZZ101091		0.09	<10	<10	53	<10	61	0.001
ZZ101092		0.16	<10	<10	62	<10	93	0.011



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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Sample Description	Method	WEI-21	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	Recvd Wt.	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
Units		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
LOR		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
ZZ101093		0.27	<0.2	1.76	17	<10	300	<0.5	<2	0.57	<0.5	12	27	21	2.82	10
ZZ101094		0.32	<0.2	1.82	22	<10	160	<0.5	<2	0.26	<0.5	11	31	20	3.03	10
ZZ101095		0.26	0.2	2.08	47	<10	200	<0.5	<2	0.30	<0.5	15	38	29	3.52	10
ZZ101096		0.27	<0.2	1.30	14	<10	120	<0.5	<2	0.32	<0.5	11	29	25	2.61	10
ZZ101097		0.39	<0.2	2.38	15	<10	270	<0.5	<2	0.50	<0.5	14	39	24	4.20	10
ZZ101098		0.29	<0.2	2.05	15	<10	160	<0.5	<2	0.35	<0.5	12	36	24	3.58	10
ZZ101099		0.28	<0.2	1.55	22	<10	180	<0.5	<2	0.33	<0.5	13	32	24	2.93	10
ZZ101100		0.24	<0.2	1.86	16	<10	210	<0.5	<2	0.77	<0.5	12	31	22	3.24	10
ZZ101101		0.21	<0.2	1.90	20	<10	180	<0.5	<2	0.50	<0.5	12	36	21	3.38	10
ZZ101102		0.24	<0.2	1.74	16	<10	170	<0.5	<2	0.58	<0.5	12	31	20	3.51	10
ZZ101103		0.27	<0.2	2.25	18	<10	280	<0.5	<2	0.53	<0.5	15	37	24	4.03	10
ZZ101104		0.28	<0.2	1.94	26	<10	160	<0.5	<2	0.41	<0.5	12	38	25	3.35	10
ZZ101105		0.21	1.0	2.27	50	<10	270	<0.5	<2	0.98	<0.5	10	26	25	3.34	10
ZZ101106		0.16	0.3	2.35	35	<10	260	<0.5	<2	0.67	<0.5	16	50	34	3.71	10
ZZ101107		0.17	0.2	1.30	17	<10	290	<0.5	<2	1.05	<0.5	11	26	25	2.32	10
ZZ101108		0.24	<0.2	1.79	25	<10	140	<0.5	<2	0.44	<0.5	12	40	26	3.06	10
ZZ101109		0.24	<0.2	2.23	40	<10	230	<0.5	<2	0.39	<0.5	14	40	24	3.51	10
ZZ101110		0.20	<0.2	2.02	29	<10	300	<0.5	<2	0.45	<0.5	14	35	24	3.54	10
ZZ101111		0.34	<0.2	1.47	30	<10	170	<0.5	<2	0.40	<0.5	10	32	29	2.67	10
ZZ101112		0.26	<0.2	2.14	13	<10	180	<0.5	<2	0.29	<0.5	10	34	24	3.46	10
ZZ101113		0.26	0.2	1.83	29	<10	280	<0.5	<2	0.43	<0.5	11	31	23	3.01	10
ZZ101114		0.29	<0.2	1.90	19	<10	170	<0.5	<2	0.37	<0.5	12	57	19	3.06	10
ZZ101115		0.28	<0.2	2.66	43	<10	420	<0.5	<2	0.43	<0.5	17	47	26	4.43	10
ZZ101116		0.25	<0.2	1.53	17	<10	130	<0.5	<2	0.44	<0.5	12	33	31	3.02	10
ZZ101117		0.32	0.2	2.01	99	<10	210	<0.5	<2	0.42	<0.5	15	39	29	3.49	10
ZZ101118		0.39	<0.2	1.89	26	<10	190	<0.5	<2	0.35	<0.5	13	42	29	2.98	10
ZZ101119		0.36	<0.2	1.49	100	<10	160	<0.5	<2	0.33	<0.5	9	29	27	2.61	10
ZZ101120		0.28	<0.2	1.74	179	<10	150	<0.5	<2	0.41	<0.5	12	34	27	3.00	10
ZZ101121		0.28	<0.2	1.45	69	<10	110	<0.5	<2	0.28	<0.5	8	29	22	2.57	10
ZZ101122		0.28	<0.2	2.15	120	<10	210	<0.5	<2	0.35	<0.5	15	37	32	3.65	10
ZZ101123		0.24	<0.2	1.41	35	<10	120	<0.5	<2	0.47	<0.5	10	38	33	2.63	10
ZZ101124		0.30	0.2	1.74	117	<10	190	<0.5	<2	0.43	<0.5	13	33	28	3.12	10
ZZ101125		0.31	<0.2	2.20	130	<10	180	<0.5	<2	0.42	<0.5	15	42	26	4.02	10
ZZ101126		0.34	0.6	1.81	277	<10	190	0.6	<2	0.63	0.7	16	34	31	4.33	10
ZZ101127		0.28	0.2	1.51	24	<10	170	<0.5	<2	0.52	<0.5	12	35	23	2.65	10
ZZ101128		0.37	<0.2	2.16	19	<10	270	<0.5	<2	0.84	<0.5	12	28	18	3.75	10
ZZ101129		0.32	0.4	1.97	29	<10	310	<0.5	<2	0.64	<0.5	12	35	25	3.15	10
ZZ101130		0.46	<0.2	2.14	36	<10	300	<0.5	<2	0.53	<0.5	10	34	11	3.41	10
ZZ101131		0.17	0.7	1.53	39	<10	360	<0.5	<2	0.97	0.6	18	24	36	2.31	<10
ZZ101132		0.27	<0.2	2.27	61	<10	250	<0.5	<2	0.44	<0.5	14	43	28	3.44	10



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	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
ZZ101093		<1	0.23	10	0.71	443	1	0.02	17	1010	7	0.09	2	3	41	<20
ZZ101094		<1	0.24	10	0.74	389	1	0.02	18	600	7	0.05	3	3	21	<20
ZZ101095		<1	0.19	10	0.82	600	2	0.02	23	870	14	0.08	2	3	29	<20
ZZ101096		<1	0.04	10	0.51	517	1	0.01	19	930	6	0.06	<2	2	27	<20
ZZ101097		<1	0.31	10	1.15	590	1	0.01	23	1370	6	0.05	<2	4	42	<20
ZZ101098		<1	0.18	10	0.92	496	<1	0.01	24	850	8	0.05	<2	3	29	<20
ZZ101099		<1	0.06	10	0.59	913	2	0.01	20	1280	10	0.11	3	2	32	<20
ZZ101100		<1	0.24	20	0.86	648	1	0.02	19	1670	17	0.09	3	3	65	<20
ZZ101101		<1	0.26	10	0.92	527	<1	0.01	23	970	13	0.06	<2	3	39	<20
ZZ101102		1	0.32	10	0.91	505	1	0.01	19	1600	7	0.07	<2	3	41	<20
ZZ101103		<1	0.38	10	1.12	736	1	0.01	25	1430	9	0.06	2	4	39	<20
ZZ101104		<1	0.23	10	0.85	533	1	0.01	22	1040	5	0.06	<2	3	34	<20
ZZ101105		1	0.51	20	1.09	370	<1	0.01	12	1920	<2	0.17	<2	4	66	<20
ZZ101106		<1	0.28	10	1.04	647	1	0.02	27	1460	11	0.12	3	4	55	<20
ZZ101107		<1	0.12	10	0.52	680	1	0.01	17	1650	6	0.21	2	2	75	<20
ZZ101108		1	0.15	10	0.72	509	1	0.01	23	950	7	0.09	2	3	37	<20
ZZ101109		<1	0.35	10	0.94	585	<1	0.02	26	910	9	0.04	<2	5	33	<20
ZZ101110		<1	0.29	10	0.84	579	1	0.02	20	1300	10	0.09	<2	3	41	<20
ZZ101111		<1	0.21	10	0.67	392	<1	0.02	20	1060	6	0.03	<2	3	30	<20
ZZ101112		1	0.08	10	0.77	338	1	0.01	21	590	5	0.05	<2	3	26	<20
ZZ101113		<1	0.29	10	0.75	423	<1	0.02	14	1070	5	0.06	2	3	39	<20
ZZ101114		<1	0.26	10	0.91	431	<1	0.01	18	910	3	0.04	<2	3	35	<20
ZZ101115		<1	0.48	10	1.12	752	<1	0.02	24	1180	5	0.04	3	5	40	<20
ZZ101116		<1	0.16	10	0.65	516	1	0.03	23	860	6	0.10	<2	3	32	<20
ZZ101117		<1	0.29	10	0.91	519	1	0.03	21	990	10	0.06	<2	4	31	<20
ZZ101118		<1	0.10	10	0.87	435	1	0.02	23	1090	5	0.07	2	3	31	<20
ZZ101119		<1	0.08	10	0.56	343	1	0.01	17	1090	11	0.13	2	2	31	<20
ZZ101120		1	0.20	10	0.73	511	<1	0.01	24	1150	10	0.03	<2	4	25	<20
ZZ101121		<1	0.08	10	0.53	369	1	0.01	17	1100	7	0.11	<2	2	26	<20
ZZ101122		<1	0.19	10	0.91	608	1	0.02	24	1070	7	0.08	<2	4	31	<20
ZZ101123		<1	0.12	10	0.60	360	1	0.02	20	970	10	0.11	2	3	31	<20
ZZ101124		<1	0.18	10	0.76	462	1	0.02	19	900	26	0.09	2	3	33	<20
ZZ101125		1	0.19	10	0.90	712	1	0.01	24	660	27	0.05	2	4	27	<20
ZZ101126		<1	0.17	10	0.93	938	1	0.02	18	790	86	0.11	4	6	58	<20
ZZ101127		<1	0.14	10	0.59	519	1	0.01	17	1660	7	0.13	2	1	41	<20
ZZ101128		<1	0.52	10	1.07	510	<1	0.01	14	2430	7	0.03	<2	4	56	<20
ZZ101129		<1	0.25	20	0.79	580	1	0.02	19	1440	8	0.14	<2	2	63	<20
ZZ101130		<1	0.64	10	0.94	369	<1	0.01	11	1420	5	0.03	<2	4	35	<20
ZZ101131		<1	0.12	20	0.43	1870	2	0.02	16	2410	6	0.25	3	1	83	<20
ZZ101132		<1	0.25	10	0.92	480	1	0.01	25	840	6	0.08	<2	3	38	<20



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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**CERTIFICATE OF ANALYSIS WH15112761**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Au-ICP21
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Au ppm
		0.01	10	10	1	10	2	0.001
ZZ101093		0.17	<10	<10	60	<10	68	0.002
ZZ101094		0.19	<10	<10	64	<10	70	0.008
ZZ101095		0.16	<10	<10	73	<10	90	0.006
ZZ101096		0.06	<10	<10	59	<10	78	0.003
ZZ101097		0.21	<10	<10	95	<10	111	0.005
ZZ101098		0.16	<10	<10	83	<10	92	0.005
ZZ101099		0.07	<10	<10	73	<10	64	0.006
ZZ101100		0.12	<10	<10	69	<10	94	0.006
ZZ101101		0.16	<10	<10	77	<10	97	0.003
ZZ101102		0.16	<10	<10	81	<10	93	0.002
ZZ101103		0.21	<10	<10	90	<10	117	0.007
ZZ101104		0.13	<10	<10	76	<10	84	0.004
ZZ101105		0.22	<10	<10	70	<10	88	0.015
ZZ101106		0.14	<10	<10	79	<10	88	0.013
ZZ101107		0.07	<10	<10	51	<10	47	0.004
ZZ101108		0.11	<10	<10	68	<10	65	0.004
ZZ101109		0.20	<10	<10	72	<10	85	0.012
ZZ101110		0.16	<10	<10	77	<10	75	0.007
ZZ101111		0.14	<10	<10	59	<10	74	0.019
ZZ101112		0.15	<10	<10	76	<10	76	0.003
ZZ101113		0.19	<10	<10	67	<10	72	0.011
ZZ101114		0.17	<10	<10	68	<10	69	0.009
ZZ101115		0.28	<10	<10	84	<10	108	0.007
ZZ101116		0.13	<10	<10	60	<10	87	0.003
ZZ101117		0.22	<10	<10	72	<10	128	0.009
ZZ101118		0.15	<10	<10	64	<10	80	0.005
ZZ101119		0.11	<10	<10	56	<10	75	0.006
ZZ101120		0.15	<10	<10	61	<10	92	0.014
ZZ101121		0.09	<10	<10	52	<10	72	0.003
ZZ101122		0.18	<10	<10	76	<10	104	0.007
ZZ101123		0.13	<10	<10	56	<10	71	0.032
ZZ101124		0.17	<10	<10	63	<10	109	0.006
ZZ101125		0.19	<10	<10	78	<10	118	0.009
ZZ101126		0.12	<10	10	60	<10	174	0.027
ZZ101127		0.07	<10	<10	56	<10	56	0.007
ZZ101128		0.23	<10	<10	82	<10	89	0.011
ZZ101129		0.11	<10	<10	68	<10	76	0.005
ZZ101130		0.24	<10	<10	71	<10	77	0.006
ZZ101131		0.03	<10	<10	51	<10	48	0.010
ZZ101132		0.15	<10	<10	73	<10	91	0.007





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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Sample Description	Method Analyte Units LOR	WEI-21	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
		Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
ZZ101133		0.23	<0.2	2.07	79	<10	220	<0.5	<2	0.42	<0.5	13	42	24	3.39	10
ZZ101134		0.31	<0.2	1.86	40	<10	300	<0.5	<2	0.49	<0.5	14	39	26	3.01	10
ZZ101135		0.31	0.3	2.36	144	<10	280	<0.5	<2	0.45	<0.5	14	44	29	3.38	10
ZZ101136		0.30	0.2	1.60	32	<10	220	<0.5	<2	0.38	<0.5	11	30	22	2.80	10
ZZ101137		0.37	0.2	2.34	349	<10	280	0.5	<2	0.51	0.6	18	53	28	4.50	10
ZZ101138		0.41	0.3	1.75	400	<10	210	<0.5	<2	0.43	<0.5	12	42	37	3.03	10
ZZ101139		0.29	0.2	1.98	178	<10	320	<0.5	<2	0.57	<0.5	14	52	33	3.20	10
ZZ101140		0.34	0.2	2.02	48	<10	240	<0.5	<2	0.36	<0.5	11	40	25	3.28	10
ZZ101141		0.46	<0.2	1.58	57	<10	220	<0.5	<2	0.39	<0.5	12	38	23	2.52	10
ZZ101142		0.30	<0.2	1.92	18	<10	230	<0.5	<2	0.31	<0.5	11	40	25	2.80	10
ZZ101143		0.40	0.2	2.09	30	<10	270	<0.5	<2	0.63	<0.5	13	55	28	3.04	10
ZZ101144		0.26	0.2	2.11	20	<10	290	<0.5	<2	0.56	<0.5	14	62	31	3.09	10
ZZ101145		0.44	0.4	2.28	45	<10	440	<0.5	<2	0.75	<0.5	13	89	41	2.93	10
ZZ101146		0.25	<0.2	1.58	27	<10	270	<0.5	<2	0.69	<0.5	16	42	30	2.19	<10
ZZ101147		0.31	<0.2	2.19	25	<10	240	<0.5	<2	0.77	<0.5	12	41	24	2.66	10
ZZ101148		0.39	<0.2	2.20	51	<10	270	<0.5	<2	0.58	<0.5	12	48	27	2.84	10
ZZ101149		0.35	<0.2	1.87	32	<10	230	<0.5	<2	0.57	<0.5	11	42	22	2.66	10
ZZ101150		0.27	0.2	2.36	38	<10	260	<0.5	<2	1.25	<0.5	15	44	31	2.51	10
ZZ101151		0.27	<0.2	1.15	17	<10	50	<0.5	<2	0.21	<0.5	5	24	22	2.00	<10
ZZ101152		0.39	<0.2	2.31	37	<10	210	<0.5	<2	0.52	<0.5	12	37	26	2.65	10
ZZ101153		0.25	<0.2	1.85	25	<10	140	<0.5	<2	0.24	<0.5	10	40	18	2.90	10
ZZ101154		0.38	<0.2	2.08	24	<10	190	<0.5	<2	0.24	<0.5	12	40	18	3.00	10
ZZ101155		0.36	0.2	2.13	32	<10	170	<0.5	<2	0.28	<0.5	11	45	19	3.29	10
ZZ101156		0.30	<0.2	2.06	32	<10	220	<0.5	<2	0.30	<0.5	13	43	25	3.14	10
ZZ101157		0.19	0.2	2.36	38	<10	330	<0.5	<2	0.62	<0.5	16	47	33	3.70	10
ZZ101158		0.26	<0.2	1.80	27	<10	180	<0.5	<2	0.24	<0.5	15	37	28	3.05	10
ZZ101159		0.41	<0.2	2.33	32	<10	210	<0.5	<2	0.28	<0.5	12	41	22	3.16	10
ZZ101160		0.19	0.2	2.43	57	<10	250	<0.5	<2	0.39	<0.5	14	39	26	3.24	10
ZZ101161		0.27	<0.2	2.19	28	<10	290	<0.5	<2	0.36	<0.5	15	44	25	3.53	10
ZZ101162		0.34	<0.2	2.50	27	<10	250	<0.5	<2	0.31	<0.5	17	46	30	3.67	10
ZZ101163		0.23	<0.2	1.84	247	<10	190	<0.5	3	0.36	<0.5	16	43	36	3.56	10
ZZ101164		0.22	0.3	1.89	173	<10	350	<0.5	2	0.72	0.9	14	39	23	3.05	10
ZZ101165		0.30	0.2	2.32	21	<10	390	<0.5	<2	0.46	<0.5	14	44	23	3.13	10
ZZ101166		0.25	0.3	2.22	342	<10	310	<0.5	2	0.51	0.6	15	44	34	3.48	10
ZZ101167		0.36	<0.2	2.31	93	<10	290	<0.5	3	0.39	<0.5	16	64	27	3.68	10
ZZ101168		0.29	<0.2	1.74	126	<10	250	<0.5	3	0.43	<0.5	14	34	29	3.30	10
ZZ101169		0.27	<0.2	2.05	149	<10	180	<0.5	2	0.28	<0.5	13	43	25	3.26	10
ZZ101170		0.36	0.2	2.09	155	<10	240	<0.5	2	0.36	<0.5	15	60	30	3.57	10
ZZ101171		0.33	<0.2	2.00	139	<10	260	<0.5	2	0.38	<0.5	13	53	23	3.14	10
ZZ101172		0.46	<0.2	2.34	45	<10	190	<0.5	3	0.25	<0.5	14	35	24	3.13	10



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
ZZ101133		1	0.16	10	0.85	541	1	0.01	24	880	7	0.07	<2	3	35	<20
ZZ101134		<1	0.18	10	0.82	631	1	0.02	19	1130	6	0.08	2	3	39	<20
ZZ101135		<1	0.31	10	0.96	411	1	0.02	19	950	12	0.10	<2	3	60	<20
ZZ101136		<1	0.14	10	0.61	455	1	0.02	14	1010	5	0.08	2	2	37	<20
ZZ101137		<1	0.28	10	1.09	881	1	0.01	24	960	14	0.05	<2	6	40	<20
ZZ101138		1	0.13	10	0.76	428	1	0.02	24	1050	7	0.09	<2	3	37	<20
ZZ101139		1	0.23	10	0.89	576	1	0.02	23	1120	6	0.08	<2	3	44	<20
ZZ101140		<1	0.24	10	0.86	487	1	0.01	20	1100	6	0.06	<2	4	32	<20
ZZ101141		<1	0.19	10	0.73	334	<1	0.02	19	1050	4	0.04	<2	3	38	<20
ZZ101142		1	0.14	10	0.68	260	1	0.02	21	820	5	0.09	2	2	34	<20
ZZ101143		<1	0.35	10	1.00	279	1	0.02	26	1290	5	0.06	<2	4	79	<20
ZZ101144		1	0.23	10	0.95	424	1	0.02	31	1220	4	0.11	<2	2	65	<20
ZZ101145		<1	0.28	10	1.07	295	1	0.02	37	1290	4	0.13	<2	3	86	<20
ZZ101146		<1	0.21	10	0.66	313	1	0.02	23	1160	2	0.15	<2	2	73	<20
ZZ101147		1	0.15	10	0.78	405	1	0.02	26	1370	6	0.10	3	2	67	<20
ZZ101148		<1	0.29	10	0.88	272	1	0.01	22	1440	3	0.04	<2	3	49	<20
ZZ101149		1	0.21	10	0.74	305	1	0.01	21	1020	4	0.07	<2	2	43	<20
ZZ101150		1	0.20	10	0.75	457	1	0.04	20	1250	4	0.13	2	3	105	<20
ZZ101151		1	0.04	10	0.25	108	2	0.01	14	500	4	0.06	<2	1	23	<20
ZZ101152		<1	0.21	10	0.74	303	1	0.02	22	1110	4	0.06	<2	3	49	<20
ZZ101153		<1	0.21	10	0.73	279	1	0.01	21	390	5	0.03	<2	3	23	<20
ZZ101154		<1	0.25	10	0.83	307	1	0.01	18	450	2	0.04	2	3	20	<20
ZZ101155		1	0.25	10	0.89	326	1	0.01	18	560	6	0.03	<2	3	19	<20
ZZ101156		<1	0.23	10	0.85	432	1	0.02	20	880	6	0.08	<2	3	27	<20
ZZ101157		1	0.13	10	0.88	750	2	0.02	26	1450	9	0.14	<2	3	48	<20
ZZ101158		<1	0.09	10	0.63	1125	2	0.01	19	830	7	0.08	2	2	25	<20
ZZ101159		<1	0.15	10	0.84	334	1	0.01	21	470	6	0.04	<2	3	24	<20
ZZ101160		<1	0.21	10	0.89	435	1	0.02	20	910	7	0.07	<2	3	32	<20
ZZ101161		<1	0.27	10	0.94	500	1	0.02	21	720	6	0.05	<2	3	30	<20
ZZ101162		<1	0.12	10	0.89	814	1	0.01	26	1010	8	0.08	2	2	34	<20
ZZ101163		<1	0.09	10	0.80	607	3	0.01	23	1020	28	0.11	<2	2	30	<20
ZZ101164		<1	0.24	10	0.87	718	<1	0.02	17	940	16	0.09	2	3	53	<20
ZZ101165		<1	0.28	10	0.92	451	1	0.04	20	1230	4	0.07	<2	3	37	<20
ZZ101166		<1	0.20	10	0.91	746	1	0.02	21	1170	10	0.10	<2	3	45	<20
ZZ101167		<1	0.30	10	1.18	538	<1	0.02	30	900	7	0.04	<2	5	32	<20
ZZ101168		<1	0.23	10	0.72	619	1	0.02	18	1000	5	0.07	<2	3	33	<20
ZZ101169		<1	0.29	10	0.80	417	<1	0.01	21	550	7	0.05	<2	3	24	<20
ZZ101170		<1	0.32	10	0.90	547	1	0.01	23	860	11	0.07	<2	4	31	<20
ZZ101171		<1	0.25	10	0.92	321	<1	0.02	20	500	4	0.03	<2	4	31	<20
ZZ101172		<1	0.30	10	0.68	474	1	0.01	19	710	5	0.07	<2	4	23	<20



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Au-ICP21
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Au ppm
		0.01	10	10	1	10	2	0.001
ZZ101133		0.15	<10	<10	72	<10	86	0.018
ZZ101134		0.14	<10	<10	62	<10	77	0.011
ZZ101135		0.16	<10	<10	76	<10	93	0.024
ZZ101136		0.12	<10	<10	63	<10	65	0.004
ZZ101137		0.16	<10	<10	80	<10	153	0.035
ZZ101138		0.10	<10	<10	61	<10	79	0.040
ZZ101139		0.18	<10	<10	67	<10	85	0.018
ZZ101140		0.17	<10	<10	67	<10	77	0.007
ZZ101141		0.14	<10	<10	59	<10	57	0.019
ZZ101142		0.12	<10	<10	63	<10	53	0.002
ZZ101143		0.18	<10	<10	69	<10	82	0.014
ZZ101144		0.13	<10	<10	71	<10	67	0.005
ZZ101145		0.12	<10	<10	77	<10	68	0.016
ZZ101146		0.09	<10	<10	50	<10	48	0.008
ZZ101147		0.08	<10	<10	58	<10	71	0.004
ZZ101148		0.18	<10	<10	63	<10	61	0.008
ZZ101149		0.10	<10	<10	60	<10	64	0.004
ZZ101150		0.10	<10	<10	67	<10	68	0.024
ZZ101151		0.07	<10	<10	49	<10	34	0.004
ZZ101152		0.12	<10	<10	62	<10	56	0.006
ZZ101153		0.15	<10	<10	68	<10	69	0.006
ZZ101154		0.20	<10	<10	66	<10	62	0.009
ZZ101155		0.22	<10	<10	73	<10	78	0.005
ZZ101156		0.17	<10	<10	69	<10	67	0.005
ZZ101157		0.11	<10	<10	76	<10	85	0.006
ZZ101158		0.09	<10	<10	69	<10	64	0.007
ZZ101159		0.17	<10	<10	73	<10	64	0.004
ZZ101160		0.17	<10	<10	72	<10	75	0.021
ZZ101161		0.21	<10	<10	77	<10	78	0.003
ZZ101162		0.11	<10	<10	75	<10	88	0.003
ZZ101163		0.11	<10	<10	74	<10	87	0.053
ZZ101164		0.17	<10	<10	65	<10	123	0.013
ZZ101165		0.21	<10	<10	70	<10	75	0.003
ZZ101166		0.16	<10	<10	72	<10	97	0.016
ZZ101167		0.21	<10	<10	84	<10	79	0.005
ZZ101168		0.19	<10	<10	76	<10	75	0.005
ZZ101169		0.19	<10	<10	67	<10	75	0.010
ZZ101170		0.19	<10	<10	75	<10	83	0.010
ZZ101171		0.23	<10	<10	74	<10	62	0.023
ZZ101172		0.19	<10	<10	60	<10	67	0.014



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 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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Sample Description	Method	WEI-21	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	Recvd Wt.	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
Units		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
LOR		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
ZZ101173		0.32	0.2	2.06	202	<10	240	<0.5	2	0.34	<0.5	16	38	49	3.57	10
ZZ101174		0.33	<0.2	2.22	18	<10	230	<0.5	2	0.34	<0.5	15	40	33	3.56	10
ZZ101175		0.46	<0.2	1.83	25	<10	250	<0.5	2	0.49	<0.5	14	38	27	3.11	10
ZZ101176		0.44	<0.2	2.47	85	<10	330	<0.5	3	0.87	<0.5	18	33	22	5.27	10
ZZ101177		0.25	<0.2	1.52	15	<10	210	<0.5	3	0.56	<0.5	11	30	24	2.84	10
ZZ101178		0.27	<0.2	1.73	16	<10	120	<0.5	2	0.26	<0.5	11	38	26	3.50	10
ZZ101179		0.35	0.3	2.19	46	<10	230	<0.5	3	0.81	0.7	15	43	20	4.38	10
ZZ101180		0.29	0.4	2.78	85	<10	270	0.5	3	1.15	0.9	19	74	30	4.43	10
ZZ101181		0.26	0.5	3.33	82	<10	350	0.9	4	0.83	1.2	111	103	194	6.75	10
ZZ101182		0.34	0.2	2.95	22	<10	250	<0.5	2	1.24	<0.5	20	86	28	4.56	10
ZZ101183		0.28	<0.2	1.92	58	<10	160	<0.5	2	0.46	<0.5	12	38	23	2.58	10
ZZ101184		0.25	0.2	1.49	20	<10	330	<0.5	2	0.64	<0.5	10	35	22	2.34	10
ZZ101185		0.46	0.2	2.97	59	<10	300	<0.5	3	0.43	<0.5	15	63	18	3.56	10
ZZ101186		0.26	<0.2	0.61	2	<10	210	<0.5	2	0.47	0.6	6	9	13	1.15	<10
ZZ101187		0.30	<0.2	2.44	32	<10	220	<0.5	3	0.35	<0.5	16	47	25	3.41	10
ZZ101188		0.45	<0.2	1.95	32	<10	260	<0.5	<2	0.40	<0.5	13	38	21	2.73	10
ZZ101189		0.31	<0.2	2.54	43	<10	240	<0.5	2	0.36	<0.5	15	53	26	4.08	10
ZZ101190		0.32	0.2	2.11	49	<10	310	<0.5	3	0.56	<0.5	12	43	29	3.01	10
ZZ101191		0.35	<0.2	2.40	32	<10	200	<0.5	3	0.29	<0.5	14	56	28	3.60	10
ZZ101192		0.28	<0.2	1.76	18	<10	200	<0.5	3	0.36	<0.5	13	42	25	3.11	10
ZZ101193		0.31	0.2	1.90	59	<10	230	<0.5	2	0.50	<0.5	11	44	30	3.35	10
ZZ101194		0.34	0.2	1.96	58	<10	200	<0.5	2	0.39	<0.5	12	41	27	3.23	10
ZZ101195		0.33	<0.2	1.86	44	<10	220	<0.5	3	0.37	<0.5	12	41	24	2.93	10
ZZ101196		0.26	0.2	2.10	74	<10	330	<0.5	<2	0.56	<0.5	16	53	27	3.46	10
ZZ101197		0.30	<0.2	2.02	214	<10	180	<0.5	3	0.34	<0.5	16	84	33	3.00	10
ZZ101198		0.41	0.2	1.31	24	<10	270	<0.5	2	0.76	<0.5	14	49	31	2.29	<10
ZZ101199		0.30	0.6	1.90	495	<10	320	<0.5	<2	1.00	<0.5	20	54	61	2.68	10
ZZ101200		0.34	<0.2	2.02	19	<10	170	<0.5	<2	0.48	<0.5	15	51	29	3.74	10
ZZ101201		0.32	0.3	3.29	44	<10	240	0.6	<2	1.72	<0.5	17	75	30	4.79	10
ZZ101202		0.34	0.3	2.29	728	<10	160	0.6	<2	1.06	1.2	14	21	25	4.67	10
ZZ101203		0.26	0.3	2.03	394	<10	230	0.5	<2	0.89	<0.5	17	28	28	4.90	10
ZZ101204		0.28	0.3	2.22	229	<10	310	<0.5	<2	1.21	1.8	16	43	55	4.15	10
ZZ101205		0.26	0.3	2.40	272	<10	300	<0.5	<2	0.73	0.6	24	61	61	4.77	10
ZZ101206		0.17	0.2	2.10	49	<10	260	<0.5	<2	0.76	0.6	19	74	35	3.85	10
ZZ101207		0.29	0.2	2.47	43	<10	260	<0.5	<2	0.57	<0.5	21	74	41	4.40	10
ZZ101208		0.25	0.2	2.16	26	<10	250	<0.5	<2	0.70	<0.5	18	71	40	3.77	10
ZZ101209		0.34	<0.2	1.76	33	<10	160	<0.5	<2	0.38	<0.5	12	47	21	2.98	10
ZZ101210		0.26	<0.2	1.76	86	<10	150	<0.5	<2	0.31	<0.5	12	36	21	3.04	10
ZZ101211		0.28	<0.2	2.34	37	<10	150	<0.5	<2	0.28	<0.5	13	40	26	3.36	10
ZZ101212		0.30	0.2	2.18	460	<10	200	<0.5	<2	0.38	0.5	20	67	33	3.99	10



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
ZZ101173		<1	0.32	10	0.81	572	1	0.02	19	900	7	0.07	2	4	30	<20
ZZ101174		<1	0.14	10	0.84	542	1	0.02	25	1110	5	0.08	<2	3	29	<20
ZZ101175		<1	0.35	10	0.83	485	<1	0.02	21	810	4	0.05	<2	3	35	<20
ZZ101176		<1	0.69	10	1.51	854	<1	0.02	18	2640	10	0.04	<2	5	44	<20
ZZ101177		<1	0.18	10	0.64	456	1	0.02	18	1410	9	0.14	<2	2	48	<20
ZZ101178		<1	0.07	10	0.73	475	1	0.01	22	980	8	0.07	<2	2	27	<20
ZZ101179		<1	0.40	10	1.29	685	<1	0.02	20	2690	15	0.02	3	4	46	<20
ZZ101180		<1	0.38	10	1.78	800	<1	0.03	29	1900	24	0.04	<2	4	115	<20
ZZ101181		<1	0.54	50	1.65	1700	19	0.03	147	1960	8	0.08	<2	9	57	<20
ZZ101182		<1	0.40	10	2.01	686	<1	0.05	35	2000	15	0.03	2	5	173	<20
ZZ101183		<1	0.13	10	0.65	310	1	0.03	21	970	4	0.03	<2	3	41	<20
ZZ101184		<1	0.15	10	0.58	395	1	0.02	17	1260	3	0.13	2	2	62	<20
ZZ101185		<1	0.41	10	1.15	457	<1	0.02	19	1060	7	0.04	<2	6	30	<20
ZZ101186		<1	0.03	10	0.16	638	<1	0.02	6	620	2	0.07	<2	1	43	<20
ZZ101187		<1	0.25	10	0.84	347	1	0.02	29	670	6	0.03	<2	5	26	<20
ZZ101188		<1	0.28	10	0.84	353	<1	0.03	17	870	6	0.06	<2	3	33	<20
ZZ101189		<1	0.24	10	0.92	444	1	0.02	29	640	7	0.03	<2	5	28	<20
ZZ101190		<1	0.31	10	0.87	601	1	0.02	22	1170	4	0.12	<2	3	44	<20
ZZ101191		<1	0.28	10	0.89	400	1	0.01	31	460	5	0.03	<2	5	25	<20
ZZ101192		<1	0.22	10	0.71	548	1	0.01	23	810	5	0.07	2	2	31	<20
ZZ101193		<1	0.23	10	0.69	483	1	0.01	23	790	7	0.08	<2	2	39	<20
ZZ101194		<1	0.20	10	0.72	441	1	0.01	22	560	5	0.04	<2	3	31	<20
ZZ101195		<1	0.31	10	0.78	365	<1	0.02	23	590	4	0.04	2	4	28	<20
ZZ101196		<1	0.12	10	0.85	631	1	0.01	26	760	6	0.07	<2	3	43	<20
ZZ101197		<1	0.24	10	1.02	395	1	0.01	30	670	5	0.05	<2	3	29	<20
ZZ101198		<1	0.12	10	0.56	546	2	0.02	23	1630	5	0.16	3	1	61	<20
ZZ101199		1	0.19	20	0.68	703	3	0.01	27	1480	7	0.19	2	2	75	<20
ZZ101200		<1	0.20	10	1.11	617	1	0.02	24	1410	7	0.05	3	3	50	<20
ZZ101201		<1	0.36	20	1.91	704	<1	0.03	31	2690	12	0.02	<2	5	169	<20
ZZ101202		<1	0.29	20	1.28	847	<1	0.02	14	2870	59	0.04	2	5	93	<20
ZZ101203		<1	0.31	20	1.21	867	<1	0.02	20	2370	10	0.04	6	6	61	<20
ZZ101204		<1	0.36	10	1.70	624	1	0.02	29	1960	13	0.10	<2	4	61	<20
ZZ101205		1	0.50	10	1.27	772	1	0.02	37	1400	14	0.11	2	6	52	<20
ZZ101206		<1	0.42	10	1.15	706	1	0.02	36	1090	9	0.15	<2	5	62	<20
ZZ101207		<1	0.41	10	1.28	735	1	0.02	38	1230	10	0.11	<2	6	51	<20
ZZ101208		<1	0.39	10	1.06	605	2	0.02	38	1030	8	0.13	<2	5	54	<20
ZZ101209		1	0.24	10	0.93	375	1	0.02	22	1010	6	0.03	<2	3	26	<20
ZZ101210		<1	0.24	10	0.79	371	1	0.02	18	870	7	0.05	<2	3	24	<20
ZZ101211		<1	0.16	10	0.85	491	1	0.02	23	850	7	0.08	<2	2	25	<20
ZZ101212		1	0.16	10	1.13	920	2	0.01	36	890	30	0.08	3	4	57	<20



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Au-ICP21
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Au ppm
		0.01	10	10	1	10	2	0.001
ZZ101173		0.19	<10	<10	72	<10	79	0.029
ZZ101174		0.14	<10	<10	74	<10	99	0.007
ZZ101175		0.20	<10	<10	62	<10	81	0.007
ZZ101176		0.28	<10	<10	122	<10	146	0.003
ZZ101177		0.10	<10	<10	65	<10	70	0.002
ZZ101178		0.11	<10	<10	85	<10	87	0.004
ZZ101179		0.22	<10	<10	100	<10	201	0.007
ZZ101180		0.23	<10	<10	93	<10	212	0.041
ZZ101181		0.32	<10	10	138	<10	445	0.012
ZZ101182		0.25	<10	<10	98	<10	144	0.005
ZZ101183		0.12	<10	<10	66	<10	61	0.006
ZZ101184		0.12	<10	<10	57	<10	47	0.004
ZZ101185		0.22	<10	<10	81	<10	93	0.011
ZZ101186		0.05	<10	<10	33	<10	31	<0.001
ZZ101187		0.19	<10	<10	81	<10	68	0.009
ZZ101188		0.18	<10	<10	66	<10	69	0.006
ZZ101189		0.21	<10	<10	91	<10	83	0.011
ZZ101190		0.16	<10	<10	69	<10	74	0.009
ZZ101191		0.19	<10	<10	87	<10	79	0.005
ZZ101192		0.12	<10	<10	68	<10	88	0.003
ZZ101193		0.11	<10	<10	76	<10	75	0.013
ZZ101194		0.15	<10	<10	74	<10	76	0.005
ZZ101195		0.19	<10	<10	67	<10	64	0.011
ZZ101196		0.14	<10	<10	77	<10	85	0.009
ZZ101197		0.14	<10	<10	67	<10	64	0.023
ZZ101198		0.06	<10	<10	53	<10	52	0.003
ZZ101199		0.09	<10	<10	56	<10	54	0.056
ZZ101200		0.17	<10	<10	92	<10	94	0.001
ZZ101201		0.24	<10	<10	102	<10	161	0.007
ZZ101202		0.16	<10	<10	82	<10	255	0.046
ZZ101203		0.20	<10	<10	80	<10	135	0.108
ZZ101204		0.22	<10	<10	83	<10	274	0.011
ZZ101205		0.30	<10	<10	91	<10	194	0.022
ZZ101206		0.22	<10	<10	88	<10	128	0.004
ZZ101207		0.25	<10	<10	100	<10	108	0.007
ZZ101208		0.20	<10	<10	84	<10	87	0.004
ZZ101209		0.19	<10	<10	67	<10	77	0.009
ZZ101210		0.18	<10	<10	65	<10	95	0.007
ZZ101211		0.15	<10	<10	70	<10	80	0.005
ZZ101212		0.13	<10	<10	76	<10	149	0.040



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %	ME-ICP41 Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
ZZ101213		0.35	0.2	2.03	107	<10	200	<0.5	<2	0.49	<0.5	18	68	45	3.57	10
ZZ101214		0.31	0.3	1.87	95	<10	290	<0.5	<2	0.58	<0.5	14	31	28	3.62	10
ZZ101215		0.46	0.2	2.34	48	<10	230	<0.5	<2	0.53	<0.5	16	47	15	3.66	10
ZZ101216		0.35	0.3	2.27	93	<10	230	<0.5	<2	0.45	<0.5	14	46	26	3.65	10
ZZ101217		0.38	<0.2	2.04	76	<10	270	<0.5	<2	0.59	<0.5	13	45	19	3.62	10
ZZ101218		0.36	<0.2	2.46	80	<10	350	<0.5	<2	0.65	<0.5	18	49	25	4.71	10
ZZ101219		0.26	0.2	1.09	61	<10	130	<0.5	<2	0.49	<0.5	15	34	28	2.84	10
ZZ101220		0.25	0.3	1.01	102	<10	160	<0.5	<2	0.60	0.5	7	27	17	2.39	10
ZZ101221		0.38	<0.2	2.45	109	<10	190	<0.5	<2	0.42	<0.5	16	51	30	3.98	10
ZZ101222		0.28	<0.2	1.84	71	<10	200	<0.5	<2	0.85	<0.5	13	58	35	3.43	10
ZZ101223		0.25	0.3	1.81	245	<10	220	<0.5	<2	0.75	<0.5	20	65	49	3.85	10
ZZ101224		0.27	0.2	2.48	224	<10	300	0.5	<2	1.00	0.8	22	68	52	4.51	10
ZZ101225		0.28	<0.2	2.43	159	<10	190	<0.5	<2	0.43	<0.5	16	51	27	4.10	10
ZZ101226		0.31	<0.2	2.18	182	<10	220	<0.5	<2	0.53	0.5	16	49	27	3.86	10
ZZ101227		0.28	0.3	2.45	218	<10	240	0.5	<2	0.83	<0.5	30	79	67	4.84	10
ZZ101228		0.19	1.0	2.00	2180	<10	210	<0.5	<2	0.95	0.8	25	82	52	4.46	10
ZZ101229		0.23	1.0	2.11	891	<10	290	0.5	<2	1.19	1.3	24	56	55	4.63	10
ZZ101230		0.37	<0.2	1.95	51	<10	210	<0.5	<2	0.37	<0.5	11	64	21	2.45	10
ZZ101231		0.37	<0.2	1.88	42	<10	140	<0.5	<2	0.30	<0.5	12	46	30	3.40	10
ZZ101232		0.36	<0.2	2.79	146	<10	410	<0.5	<2	0.74	<0.5	24	168	46	3.43	10
ZZ101233		0.43	<0.2	1.91	110	<10	260	<0.5	<2	0.55	<0.5	14	71	29	3.43	10
ZZ101234		0.20	0.2	1.45	70	<10	300	<0.5	<2	0.57	1.0	12	38	26	2.73	10
ZZ101235		0.37	<0.2	2.08	18	<10	230	<0.5	2	0.37	<0.5	12	39	30	3.10	10
ZZ101236		0.31	0.2	1.90	77	<10	260	<0.5	<2	0.46	<0.5	14	36	24	3.21	10
ZZ101237		0.30	<0.2	2.39	46	<10	280	<0.5	<2	0.40	<0.5	12	39	25	3.46	10
ZZ101238		0.29	0.2	2.03	66	<10	340	<0.5	2	0.67	0.5	16	58	41	3.26	10
ZZ101239		0.28	<0.2	2.21	21	<10	340	<0.5	<2	0.63	<0.5	14	59	33	3.35	10
ZZ101240		0.26	0.2	2.43	81	<10	170	<0.5	<2	0.25	<0.5	17	41	46	4.10	10
ZZ101241		0.37	<0.2	2.56	16	<10	530	<0.5	<2	0.40	<0.5	15	88	22	3.72	10
ZZ101242		0.42	<0.2	2.31	44	<10	340	<0.5	<2	0.43	<0.5	16	39	24	3.65	10
ZZ101243		0.28	<0.2	2.24	45	<10	310	<0.5	<2	0.60	<0.5	21	50	40	3.98	10
ZZ101244		0.23	0.7	2.51	62	<10	350	<0.5	<2	0.57	<0.5	16	53	33	4.13	10
ZZ101245		0.39	0.2	2.08	98	<10	370	<0.5	<2	1.01	<0.5	18	42	27	4.03	10
ZZ101246		0.23	0.2	2.17	234	<10	270	<0.5	2	0.71	<0.5	20	268	24	3.05	<10
ZZ101247		0.33	0.2	2.07	54	<10	210	<0.5	<2	0.50	<0.5	14	32	33	3.74	10
ZZ101248		0.53	<0.2	2.11	184	<10	180	<0.5	<2	0.67	<0.5	16	27	19	4.07	10
ZZ101249		0.35	<0.2	1.09	17	<10	70	<0.5	<2	0.25	<0.5	8	24	30	2.35	<10
ZZ101250		0.39	<0.2	1.58	20	<10	100	<0.5	<2	0.27	<0.5	9	36	27	3.31	10
ZZ101251		0.48	<0.2	2.33	31	<10	190	<0.5	<2	0.68	0.5	15	30	22	4.20	10
ZZ101252		0.32	<0.2	2.47	39	<10	210	<0.5	<2	0.52	<0.5	15	37	24	4.38	10



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
ZZ101213		1	0.33	10	1.04	524	1	0.03	23	1040	21	0.04	<2	4	43	<20
ZZ101214		<1	0.45	10	0.95	594	1	0.03	16	1380	28	0.03	4	4	35	<20
ZZ101215		<1	0.50	10	1.11	493	<1	0.02	21	1580	13	0.03	<2	6	25	<20
ZZ101216		<1	0.21	10	0.98	333	1	0.01	22	1220	15	0.04	4	5	28	<20
ZZ101217		<1	0.57	10	1.12	472	<1	0.02	21	1470	13	0.02	2	5	31	<20
ZZ101218		<1	1.03	10	1.45	636	<1	0.02	24	2010	11	0.04	<2	5	30	<20
ZZ101219		<1	0.08	10	0.54	551	2	0.01	21	820	8	0.08	<2	2	39	<20
ZZ101220		<1	0.13	10	0.46	209	2	0.01	14	570	23	0.08	<2	2	42	<20
ZZ101221		1	0.22	10	1.06	486	1	0.01	30	890	11	0.05	<2	5	28	<20
ZZ101222		1	0.34	10	0.88	419	1	0.02	37	560	11	0.08	3	5	47	<20
ZZ101223		1	0.30	10	1.03	574	3	0.02	47	610	49	0.08	5	4	54	<20
ZZ101224		1	0.31	20	1.16	874	2	0.02	50	960	29	0.06	4	6	69	<20
ZZ101225		<1	0.25	10	1.07	532	1	0.01	32	660	23	0.04	2	4	31	<20
ZZ101226		<1	0.20	10	0.99	571	1	0.01	27	620	18	0.05	3	4	36	<20
ZZ101227		1	0.42	10	1.42	819	2	0.02	56	870	36	0.08	11	6	63	<20
ZZ101228		<1	0.43	20	1.28	672	1	0.02	53	1010	46	0.18	243	5	85	<20
ZZ101229		<1	0.28	10	1.04	1030	1	0.02	33	860	88	0.08	66	6	93	<20
ZZ101230		<1	0.20	10	0.82	239	<1	0.02	20	570	2	0.03	<2	3	30	<20
ZZ101231		<1	0.11	10	0.74	484	2	0.01	25	560	7	0.05	<2	3	31	<20
ZZ101232		<1	0.49	10	1.75	351	<1	0.05	49	1420	2	0.02	<2	3	70	<20
ZZ101233		<1	0.31	10	0.98	515	1	0.02	27	1100	6	0.07	<2	4	41	<20
ZZ101234		<1	0.23	10	0.64	492	1	0.01	18	1080	6	0.10	<2	3	45	<20
ZZ101235		<1	0.16	10	0.72	460	2	0.02	21	850	9	0.07	<2	3	33	<20
ZZ101236		<1	0.23	10	0.76	677	2	0.01	19	860	8	0.05	<2	3	34	<20
ZZ101237		<1	0.31	10	0.87	468	1	0.01	23	820	7	0.06	<2	3	27	<20
ZZ101238		<1	0.26	20	0.89	528	2	0.03	25	1320	8	0.10	<2	3	50	<20
ZZ101239		<1	0.15	10	0.91	491	1	0.02	25	1160	7	0.09	<2	2	50	<20
ZZ101240		<1	0.11	10	0.88	622	3	0.01	25	790	11	0.09	<2	3	33	<20
ZZ101241		<1	0.35	10	1.24	403	1	0.03	18	700	4	0.04	<2	3	48	<20
ZZ101242		<1	0.27	10	1.07	521	1	0.02	18	660	9	0.04	<2	3	36	<20
ZZ101243		<1	0.22	10	1.01	790	2	0.01	27	1130	9	0.09	<2	3	49	<20
ZZ101244		<1	0.40	10	1.16	598	1	0.03	20	640	9	0.06	2	4	55	<20
ZZ101245		<1	0.40	10	1.07	895	2	0.01	17	810	12	0.09	<2	4	64	<20
ZZ101246		<1	0.10	10	1.63	455	1	0.01	48	660	23	0.07	<2	4	49	<20
ZZ101247		<1	0.23	10	1.03	689	1	0.02	20	1330	8	0.06	<2	3	41	<20
ZZ101248		<1	0.48	10	1.11	622	1	0.02	14	2060	19	0.02	<2	3	40	<20
ZZ101249		<1	0.05	10	0.38	324	1	0.01	13	960	6	0.07	<2	1	22	<20
ZZ101250		<1	0.08	10	0.56	429	2	0.01	20	570	10	0.05	<2	2	32	<20
ZZ101251		<1	0.36	10	1.20	792	1	0.02	18	2470	11	0.03	<2	4	35	<20
ZZ101252		<1	0.20	10	1.22	791	1	0.02	20	1470	9	0.05	<2	4	41	<20





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Au-ICP21
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Au ppm
		0.01	10	10	1	10	2	0.001
ZZ101213		0.22	<10	<10	72	<10	106	0.013
ZZ101214		0.25	<10	<10	71	<10	114	0.021
ZZ101215		0.24	<10	<10	78	<10	97	0.009
ZZ101216		0.20	<10	<10	77	<10	84	0.010
ZZ101217		0.26	<10	<10	77	<10	102	0.005
ZZ101218		0.37	<10	<10	104	<10	121	0.003
ZZ101219		0.09	<10	<10	66	<10	59	0.002
ZZ101220		0.13	<10	<10	66	<10	54	0.004
ZZ101221		0.19	<10	<10	87	<10	105	0.005
ZZ101222		0.22	<10	<10	78	<10	84	0.004
ZZ101223		0.20	<10	<10	87	<10	143	0.020
ZZ101224		0.20	<10	<10	92	<10	132	0.008
ZZ101225		0.21	<10	<10	84	<10	115	0.007
ZZ101226		0.18	<10	<10	82	<10	103	0.003
ZZ101227		0.22	<10	<10	95	<10	142	0.014
ZZ101228		0.16	<10	<10	72	<10	150	0.076
ZZ101229		0.16	<10	<10	75	<10	221	0.045
ZZ101230		0.19	<10	<10	61	<10	48	0.003
ZZ101231		0.12	<10	<10	74	<10	75	0.003
ZZ101232		0.22	<10	<10	70	<10	72	0.021
ZZ101233		0.20	<10	<10	75	<10	77	0.007
ZZ101234		0.13	<10	<10	60	<10	76	0.005
ZZ101235		0.14	<10	<10	67	<10	84	0.038
ZZ101236		0.17	<10	<10	68	<10	86	0.002
ZZ101237		0.21	<10	<10	71	<10	85	0.001
ZZ101238		0.16	<10	<10	67	<10	98	0.003
ZZ101239		0.14	<10	<10	77	<10	79	0.002
ZZ101240		0.16	<10	<10	79	<10	111	0.003
ZZ101241		0.36	<10	<10	84	<10	84	0.001
ZZ101242		0.25	<10	<10	80	<10	97	0.002
ZZ101243		0.12	<10	<10	75	<10	110	0.011
ZZ101244		0.29	<10	<10	79	<10	121	0.004
ZZ101245		0.16	<10	<10	83	<10	110	0.003
ZZ101246		0.15	<10	<10	70	<10	93	0.005
ZZ101247		0.17	<10	<10	81	<10	126	0.007
ZZ101248		0.22	<10	<10	85	<10	162	0.033
ZZ101249		0.08	<10	<10	57	<10	63	0.002
ZZ101250		0.12	<10	<10	84	<10	93	0.002
ZZ101251		0.23	<10	<10	88	<10	189	0.014
ZZ101252		0.19	<10	<10	95	<10	154	0.004



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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Sample Description	Method	WEI-21	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	Recvd Wt.	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOR	0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
ZZ101253		0.58	0.2	2.07	21	<10	200	<0.5	<2	0.63	<0.5	13	37	21	3.79	10
ZZ101254		0.39	0.2	1.13	21	<10	70	<0.5	<2	0.29	<0.5	7	21	20	2.39	10
ZZ101255		0.35	0.2	1.72	68	<10	180	<0.5	<2	0.41	0.7	12	38	23	3.19	10
ZZ101256		0.43	<0.2	2.03	17	<10	200	<0.5	<2	0.84	<0.5	12	47	24	3.52	10
ZZ101257		0.38	0.2	1.73	40	<10	180	<0.5	<2	0.51	<0.5	11	34	29	3.28	10
ZZ101258		0.53	0.5	2.68	423	<10	250	0.6	3	1.29	0.5	14	25	38	4.37	10
ZZ101259		0.40	0.5	2.53	257	<10	360	<0.5	<2	1.25	<0.5	25	96	71	4.70	10
ZZ101260		0.49	0.2	2.22	121	<10	240	<0.5	3	0.61	0.5	19	49	43	3.84	10
ZZ101261		0.72	0.6	2.30	126	<10	180	<0.5	<2	9.1	1.2	24	47	67	4.10	10
ZZ101262		0.58	0.2	1.97	89	<10	200	<0.5	2	0.83	0.7	13	40	28	3.81	10
ZZ101263		0.39	<0.2	2.44	63	<10	200	<0.5	<2	0.56	<0.5	16	63	37	4.07	10
ZZ101264		0.35	<0.2	2.41	74	<10	200	<0.5	<2	0.58	<0.5	18	70	35	4.28	10
ZZ101265		0.52	<0.2	2.21	18	<10	190	<0.5	<2	0.60	<0.5	14	66	30	3.43	10
ZZ101266		0.45	0.3	2.16	39	<10	210	<0.5	<2	0.62	<0.5	14	50	35	3.19	10
ZZ101267		0.32	0.2	2.07	28	<10	220	<0.5	<2	0.49	<0.5	11	42	24	3.07	10
ZZ101268		0.50	<0.2	1.97	50	<10	210	<0.5	<2	0.47	<0.5	12	37	20	3.06	10
ZZ101269		0.46	0.2	2.17	79	<10	270	<0.5	<2	0.52	<0.5	13	39	23	3.53	10
ZZ101270		0.41	0.2	1.86	61	<10	210	<0.5	<2	0.38	<0.5	11	30	19	2.94	10
ZZ101271		0.38	<0.2	1.97	107	<10	290	<0.5	<2	0.71	1.2	18	51	32	3.87	10
ZZ101272		0.29	<0.2	2.03	209	<10	170	<0.5	<2	0.33	0.5	14	50	25	3.53	10
ZZ101273		0.39	0.2	3.06	260	<10	460	<0.5	<2	1.39	0.8	22	33	24	5.05	10
ZZ101274		0.33	1.6	1.80	3070	<10	430	<0.5	2	4.41	7.1	22	46	70	4.84	10
ZZ101275		0.32	0.8	2.05	1810	<10	220	0.7	<2	0.70	3.5	24	39	40	5.63	10
ZZ101276		0.38	<0.2	2.51	110	<10	310	<0.5	<2	0.51	<0.5	14	75	22	3.15	10
ZZ101277		0.26	0.2	2.16	35	<10	420	<0.5	<2	0.52	<0.5	19	120	40	3.25	10
ZZ101278		0.33	<0.2	2.40	48	<10	310	<0.5	<2	0.31	0.5	17	43	31	3.79	10
ZZ101279		0.31	<0.2	2.45	119	<10	130	<0.5	<2	0.39	0.7	15	109	28	3.45	10
ZZ101280		0.25	0.2	2.23	396	<10	350	<0.5	<2	0.71	<0.5	14	48	31	3.63	10
ZZ101281		0.39	<0.2	2.18	107	<10	260	<0.5	<2	0.58	<0.5	11	41	24	2.63	10
ZZ101282		0.39	<0.2	2.18	291	<10	290	<0.5	<2	0.79	<0.5	13	40	26	2.66	10
ZZ101283		0.28	<0.2	2.26	101	<10	240	<0.5	<2	0.49	<0.5	13	45	27	3.02	10
ZZ101284		0.34	<0.2	2.52	366	<10	230	<0.5	<2	0.44	<0.5	14	53	31	3.46	10
ZZ101285		0.25	0.2	2.26	91	<10	180	<0.5	<2	0.44	<0.5	17	44	27	3.11	10
ZZ101286		0.41	<0.2	1.66	157	<10	190	<0.5	<2	0.73	<0.5	9	29	21	2.09	10
ZZ101287		0.34	<0.2	1.85	136	<10	190	<0.5	<2	0.55	<0.5	14	38	32	2.48	10
ZZ101288		0.40	<0.2	1.82	105	<10	110	<0.5	<2	0.31	<0.5	8	33	17	2.10	<10
ZZ101289		0.29	<0.2	1.87	101	<10	340	<0.5	<2	0.68	<0.5	10	35	29	2.26	10
ZZ101290		0.55	<0.2	2.32	52	<10	300	<0.5	<2	0.45	<0.5	9	47	21	2.71	10
ZZ101291		0.38	<0.2	1.45	30	<10	180	<0.5	<2	0.43	<0.5	7	33	12	1.82	10
ZZ101292		0.41	<0.2	1.61	44	<10	190	<0.5	<2	0.41	<0.5	7	34	16	1.96	10



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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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	ME-ICP41
	Analyte	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
Units		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
ZZ101253		<1	0.24	10	1.13	657	1	0.02	18	1770	10	0.02	<2	3	42	<20
ZZ101254		<1	0.04	10	0.42	312	1	0.01	10	630	6	0.06	<2	1	32	<20
ZZ101255		<1	0.08	10	0.80	656	1	0.01	17	1030	11	0.08	<2	2	42	<20
ZZ101256		<1	0.20	10	1.21	508	1	0.03	20	1670	10	0.06	<2	3	76	<20
ZZ101257		<1	0.13	10	0.88	483	1	0.02	16	1240	7	0.06	<2	3	43	<20
ZZ101258		<1	0.38	10	1.21	740	1	0.02	14	2280	29	0.02	<2	5	109	<20
ZZ101259		<1	0.62	10	1.54	765	1	0.03	57	1190	17	0.19	2	7	79	<20
ZZ101260		<1	0.32	10	1.04	631	1	0.03	32	1460	13	0.05	<2	5	48	<20
ZZ101261		<1	0.19	10	2.15	718	1	0.04	52	1450	27	0.16	<2	3	572	<20
ZZ101262		<1	0.33	20	1.13	628	1	0.02	23	2210	16	0.03	7	5	46	<20
ZZ101263		<1	0.42	10	1.16	680	2	0.03	35	1320	11	0.09	<2	6	45	<20
ZZ101264		<1	0.42	10	1.36	689	1	0.02	36	1370	21	0.04	<2	7	38	<20
ZZ101265		<1	0.30	10	1.06	527	1	0.04	33	980	7	0.04	<2	6	52	<20
ZZ101266		<1	0.20	10	0.91	649	1	0.02	28	1070	13	0.08	<2	4	52	<20
ZZ101267		<1	0.21	10	0.87	446	1	0.02	21	1060	7	0.07	<2	4	40	<20
ZZ101268		<1	0.38	10	0.88	436	<1	0.02	18	1160	6	0.02	<2	4	33	<20
ZZ101269		<1	0.70	10	1.03	449	1	0.02	16	1580	7	0.01	<2	4	29	<20
ZZ101270		<1	0.33	10	0.77	417	<1	0.02	15	990	7	0.03	<2	3	28	<20
ZZ101271		<1	0.62	10	1.08	835	2	0.02	25	1310	17	0.06	<2	5	49	<20
ZZ101272		1	0.18	10	0.92	514	1	0.01	24	520	16	0.05	2	4	29	<20
ZZ101273		1	0.76	10	1.61	807	<1	0.04	15	1150	15	0.05	3	6	121	<20
ZZ101274		<1	0.21	10	1.18	1285	1	0.01	18	1010	99	0.11	16	6	307	<20
ZZ101275		<1	0.24	20	1.19	1315	1	0.01	16	1270	106	0.12	26	6	63	<20
ZZ101276		<1	0.29	10	1.16	359	<1	0.03	19	1070	5	0.03	3	3	41	<20
ZZ101277		<1	0.14	10	1.02	577	1	0.02	32	780	5	0.07	2	3	40	<20
ZZ101278		<1	0.16	10	0.98	591	1	0.01	27	570	5	0.05	<2	3	27	<20
ZZ101279		<1	0.14	10	1.52	420	1	0.02	50	450	6	0.04	<2	3	39	<20
ZZ101280		1	0.58	10	0.95	499	1	0.01	19	1360	7	0.06	<2	3	89	<20
ZZ101281		<1	0.36	10	0.81	301	<1	0.03	21	1240	2	0.01	<2	5	50	<20
ZZ101282		<1	0.41	10	0.83	351	<1	0.05	21	1230	<2	0.04	2	4	68	<20
ZZ101283		<1	0.42	10	0.83	369	1	0.03	27	980	3	0.03	3	4	42	<20
ZZ101284		1	0.49	10	0.95	398	<1	0.02	33	800	4	0.02	2	6	39	<20
ZZ101285		<1	0.31	10	0.82	295	1	0.02	29	660	3	0.04	<2	3	38	<20
ZZ101286		<1	0.28	10	0.62	262	<1	0.03	17	950	<2	0.04	<2	3	53	<20
ZZ101287		<1	0.24	10	0.70	356	<1	0.02	22	690	2	0.03	<2	3	46	<20
ZZ101288		<1	0.26	10	0.59	195	<1	0.02	19	800	2	0.02	3	3	26	<20
ZZ101289		<1	0.24	10	0.63	376	1	0.02	19	910	<2	0.05	<2	3	61	<20
ZZ101290		1	0.27	10	0.78	235	<1	0.02	24	820	<2	0.03	3	4	44	<20
ZZ101291		<1	0.26	10	0.57	213	<1	0.02	15	1100	<2	0.01	2	4	30	<20
ZZ101292		<1	0.25	10	0.57	197	<1	0.02	18	1020	<2	0.01	<2	4	29	<20



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Au-ICP21
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Au ppm
		0.01	10	10	1	10	2	0.001
ZZ101253		0.18	<10	<10	85	<10	124	0.001
ZZ101254		0.09	<10	<10	62	<10	57	0.002
ZZ101255		0.11	<10	<10	75	<10	110	0.006
ZZ101256		0.18	<10	<10	81	<10	101	0.015
ZZ101257		0.17	<10	<10	77	<10	85	0.002
ZZ101258		0.27	<10	<10	88	<10	178	0.128
ZZ101259		0.31	<10	<10	95	<10	155	0.008
ZZ101260		0.23	<10	<10	79	<10	144	0.010
ZZ101261		0.13	<10	<10	55	<10	176	0.033
ZZ101262		0.25	<10	<10	77	<10	189	0.007
ZZ101263		0.24	<10	<10	89	<10	107	0.020
ZZ101264		0.29	<10	<10	93	<10	127	0.009
ZZ101265		0.22	<10	<10	79	<10	87	0.002
ZZ101266		0.16	<10	<10	72	<10	95	0.007
ZZ101267		0.17	<10	<10	69	<10	78	0.004
ZZ101268		0.21	<10	<10	67	<10	83	0.004
ZZ101269		0.29	<10	<10	76	<10	112	0.008
ZZ101270		0.20	<10	<10	63	<10	92	0.037
ZZ101271		0.23	<10	<10	78	<10	149	0.018
ZZ101272		0.17	<10	<10	72	<10	110	0.007
ZZ101273		0.40	<10	<10	90	<10	167	0.018
ZZ101274		0.12	<10	<10	68	<10	613	0.123
ZZ101275		0.13	<10	<10	75	<10	523	0.036
ZZ101276		0.27	<10	<10	73	<10	66	0.003
ZZ101277		0.17	<10	<10	83	<10	97	0.001
ZZ101278		0.21	<10	<10	77	<10	101	0.007
ZZ101279		0.15	<10	<10	74	<10	74	0.003
ZZ101280		0.25	<10	<10	76	<10	85	0.008
ZZ101281		0.13	<10	<10	66	<10	53	0.025
ZZ101282		0.13	<10	<10	64	<10	57	0.053
ZZ101283		0.12	<10	<10	72	<10	66	0.071
ZZ101284		0.15	<10	<10	81	<10	70	0.018
ZZ101285		0.12	<10	<10	70	<10	75	0.008
ZZ101286		0.10	<10	<10	48	<10	41	0.014
ZZ101287		0.11	<10	<10	59	<10	51	0.011
ZZ101288		0.09	<10	<10	51	<10	43	0.017
ZZ101289		0.12	<10	<10	59	<10	58	0.016
ZZ101290		0.14	<10	<10	71	<10	58	0.005
ZZ101291		0.12	<10	<10	50	<10	37	0.022
ZZ101292		0.11	<10	<10	52	<10	43	0.007



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
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Sample Description	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
ZZ101293	0.41	0.5	2.06	174	<10	230	0.5	2	0.95	0.6	16	46	29	4.22	10
ZZ101294	0.32	<0.2	1.63	150	<10	280	<0.5	<2	1.42	<0.5	14	44	33	3.25	10
ZZ101295	0.32	<0.2	1.30	27	<10	190	<0.5	<2	0.65	<0.5	10	39	27	3.04	10
ZZ101296	0.33	<0.2	1.49	18	<10	120	<0.5	<2	0.20	<0.5	9	34	32	3.13	10
ZZ101297	0.32	<0.2	2.64	41	<10	140	0.9	<2	0.71	0.9	31	44	41	3.87	10
ZZ101298	0.22	<0.2	0.31	4	<10	40	<0.5	<2	0.19	<0.5	4	7	10	1.14	<10
ZZ101299	0.47	<0.2	1.60	92	<10	190	<0.5	<2	0.44	<0.5	13	29	25	3.23	10
ZZ101300	0.29	0.6	1.71	689	<10	240	<0.5	<2	0.62	1.1	17	64	38	4.27	10
ZZ101301	0.33	<0.2	2.00	52	<10	220	<0.5	<2	0.57	<0.5	14	38	18	3.44	10
ZZ101302	0.42	2.2	1.98	1555	<10	220	<0.5	4	1.03	3.1	23	117	56	5.07	10
ZZ101303	0.31	0.2	2.00	195	<10	260	<0.5	<2	0.57	0.5	18	40	25	3.82	10
ZZ101304	0.30	<0.2	1.94	82	<10	150	0.5	<2	0.90	<0.5	15	100	34	3.67	10
ZZ101305	0.28	<0.2	1.63	42	<10	130	<0.5	<2	0.36	<0.5	9	54	21	2.95	10
ZZ101306	0.21	<0.2	2.51	305	<10	410	<0.5	<2	0.70	<0.5	22	135	44	3.88	10
ZZ101307	0.39	<0.2	2.29	117	<10	260	<0.5	<2	0.46	<0.5	14	64	28	3.12	10
ZZ101308	0.30	0.2	2.14	109	<10	360	<0.5	<2	0.56	<0.5	20	65	34	3.21	10
ZZ101309	0.34	0.3	2.05	86	<10	250	<0.5	2	0.35	<0.5	17	50	28	3.63	10
ZZ101310	0.21	0.3	2.23	179	<10	260	<0.5	<2	0.51	<0.5	13	53	30	3.72	10
ZZ101311	0.24	<0.2	1.65	115	<10	130	<0.5	<2	0.35	<0.5	9	46	17	3.59	10
ZZ101312	0.57	<0.2	2.51	223	<10	260	<0.5	<2	0.59	<0.5	12	49	22	3.49	10
ZZ101313	0.36	0.2	2.03	110	<10	150	<0.5	<2	0.34	<0.5	11	46	22	3.24	10
ZZ101314	0.28	0.2	2.01	156	<10	200	<0.5	<2	0.48	<0.5	14	62	30	3.15	10
ZZ101315	0.21	0.3	2.26	384	<10	350	<0.5	2	0.66	<0.5	16	68	52	3.51	10
ZZ101316	0.20	<0.2	0.77	64	<10	90	<0.5	<2	0.26	<0.5	6	19	18	1.89	<10
ZZ101317	0.44	<0.2	1.90	129	<10	200	<0.5	<2	0.41	<0.5	11	47	21	2.87	10
ZZ101318	0.30	<0.2	2.21	266	<10	240	<0.5	<2	0.44	<0.5	14	44	37	3.36	10
ZZ101319	0.25	<0.2	2.22	149	<10	250	<0.5	<2	0.70	<0.5	14	54	32	3.58	10
ZZ101320	0.27	<0.2	1.97	230	<10	270	<0.5	<2	0.73	<0.5	16	57	31	2.93	10
ZZ101321	0.31	0.2	2.16	356	<10	260	<0.5	<2	0.57	<0.5	12	45	34	3.01	10
ZZ101322	0.33	<0.2	1.57	198	<10	200	<0.5	<2	0.56	<0.5	10	38	21	2.20	10
ZZ101323	0.43	<0.2	1.72	107	<10	330	<0.5	<2	0.59	<0.5	12	58	20	2.58	10
ZZ101324	0.32	<0.2	2.28	128	<10	350	<0.5	2	0.52	<0.5	15	125	26	3.13	10
ZZ101325	0.29	<0.2	1.69	89	<10	310	<0.5	<2	0.63	<0.5	11	90	21	2.46	10
ZZ101326	0.37	<0.2	1.64	79	<10	260	<0.5	<2	0.45	<0.5	10	47	20	2.48	10



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		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
ZZ101293		<1	0.29	20	1.42	822	<1	0.03	28	1480	111	0.04	<2	7	57	<20
ZZ101294		<1	0.29	10	0.89	625	1	0.02	29	1120	13	0.14	3	4	77	<20
ZZ101295		<1	0.17	10	0.60	332	2	0.02	21	880	8	0.08	5	2	46	<20
ZZ101296		<1	0.04	10	0.46	206	2	0.01	24	730	8	0.07	<2	2	24	<20
ZZ101297		<1	0.11	30	1.82	1555	1	0.02	70	1100	17	0.09	4	3	46	<20
ZZ101298		<1	0.02	<10	0.11	173	<1	0.02	4	540	<2	0.03	<2	<1	15	<20
ZZ101299		1	0.17	10	0.73	571	1	0.01	18	1270	14	0.09	6	2	29	<20
ZZ101300		<1	0.29	10	1.07	776	1	0.02	31	950	87	0.06	10	5	52	<20
ZZ101301		<1	0.29	10	0.96	479	<1	0.02	21	1460	10	0.03	3	4	37	<20
ZZ101302		<1	0.27	10	1.47	1120	1	0.02	47	840	240	0.11	8	6	108	<20
ZZ101303		<1	0.23	10	0.90	913	1	0.01	22	860	16	0.08	3	3	45	<20
ZZ101304		<1	0.27	10	0.97	622	2	0.01	37	980	9	0.08	3	2	63	<20
ZZ101305		<1	0.14	10	0.71	233	1	0.01	24	480	5	0.03	<2	2	24	<20
ZZ101306		<1	0.23	10	1.30	707	2	0.01	43	1060	8	0.05	<2	5	50	<20
ZZ101307		<1	0.39	10	0.93	407	<1	0.02	30	1190	6	0.04	<2	4	32	<20
ZZ101308		<1	0.19	10	0.88	1180	<1	0.02	27	1050	6	0.05	2	4	49	<20
ZZ101309		1	0.09	10	0.76	641	1	0.01	24	570	9	0.02	<2	4	28	<20
ZZ101310		<1	0.12	10	0.80	470	2	0.01	28	610	10	0.05	<2	4	37	<20
ZZ101311		<1	0.32	10	0.80	302	1	0.01	23	440	8	0.03	<2	4	26	<20
ZZ101312		1	0.35	10	0.93	305	<1	0.02	18	1260	7	0.05	<2	4	42	<20
ZZ101313		<1	0.24	10	0.79	270	1	0.01	23	470	7	0.03	<2	4	30	<20
ZZ101314		<1	0.25	10	0.84	494	1	0.01	26	620	8	0.07	2	3	38	<20
ZZ101315		<1	0.37	10	0.96	489	<1	0.02	32	890	8	0.07	2	4	52	<20
ZZ101316		<1	0.09	<10	0.30	136	<1	0.01	10	330	3	0.03	<2	1	23	<20
ZZ101317		<1	0.41	10	0.83	295	<1	0.01	24	910	4	0.02	<2	4	31	<20
ZZ101318		1	0.37	10	0.92	337	1	0.02	24	660	6	0.04	<2	4	41	<20
ZZ101319		<1	0.30	10	1.00	380	1	0.02	34	880	8	0.07	<2	3	55	<20
ZZ101320		<1	0.38	10	0.89	291	<1	0.02	36	1170	4	0.06	2	3	57	<20
ZZ101321		<1	0.43	10	0.90	232	<1	0.03	24	890	5	0.05	<2	4	55	<20
ZZ101322		<1	0.29	10	0.68	206	<1	0.02	17	1410	4	0.04	<2	2	42	<20
ZZ101323		<1	0.51	10	0.91	274	<1	0.03	21	1570	4	0.01	<2	4	41	<20
ZZ101324		<1	0.56	10	1.22	325	<1	0.02	39	800	5	0.03	<2	4	45	<20
ZZ101325		1	0.49	10	0.95	281	<1	0.02	31	1460	3	0.03	<2	3	40	<20
ZZ101326		<1	0.41	10	0.76	318	<1	0.01	18	1020	4	0.03	<2	3	31	<20



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 Finalized Date: 9-AUG-2015  
 Account: ROCKHA

Project: KLUANE

**CERTIFICATE OF ANALYSIS WH15112761**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Au-ICP21
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Au ppm
		0.01	10	10	1	10	2	0.001
ZZ101293		0.17	<10	<10	74	<10	158	0.032
ZZ101294		0.15	<10	<10	72	<10	81	0.014
ZZ101295		0.13	<10	<10	81	<10	63	0.005
ZZ101296		0.07	<10	<10	73	<10	73	0.005
ZZ101297		0.07	<10	<10	53	<10	165	0.006
ZZ101298		0.05	<10	<10	36	<10	25	<0.001
ZZ101299		0.13	<10	<10	69	<10	86	0.006
ZZ101300		0.18	<10	<10	67	<10	223	0.276
ZZ101301		0.24	<10	<10	74	<10	103	0.005
ZZ101302		0.16	<10	<10	66	<10	554	0.099
ZZ101303		0.14	<10	<10	79	<10	106	0.009
ZZ101304		0.13	<10	10	67	<10	107	0.002
ZZ101305		0.12	<10	<10	71	<10	62	0.002
ZZ101306		0.19	<10	<10	88	<10	86	0.013
ZZ101307		0.20	<10	<10	68	<10	72	0.005
ZZ101308		0.16	<10	<10	70	<10	70	0.008
ZZ101309		0.15	<10	<10	78	<10	87	0.007
ZZ101310		0.14	<10	<10	83	<10	67	0.008
ZZ101311		0.20	<10	<10	81	<10	78	0.002
ZZ101312		0.23	<10	<10	76	<10	64	0.095
ZZ101313		0.17	<10	<10	72	<10	63	0.005
ZZ101314		0.14	<10	<10	68	<10	63	0.008
ZZ101315		0.17	<10	<10	73	<10	72	0.021
ZZ101316		0.08	<10	<10	52	<10	38	0.003
ZZ101317		0.21	<10	<10	65	<10	55	0.006
ZZ101318		0.16	<10	<10	74	<10	62	0.013
ZZ101319		0.16	<10	<10	80	<10	75	0.006
ZZ101320		0.15	<10	<10	68	<10	54	0.009
ZZ101321		0.16	<10	<10	68	<10	51	0.028
ZZ101322		0.12	<10	<10	50	<10	43	0.012
ZZ101323		0.20	<10	<10	61	<10	50	0.018
ZZ101324		0.23	<10	<10	73	<10	59	0.014
ZZ101325		0.21	<10	<10	57	<10	51	0.015
ZZ101326		0.19	<10	<10	56	<10	51	0.016



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**CERTIFICATE OF ANALYSIS WH15112761**

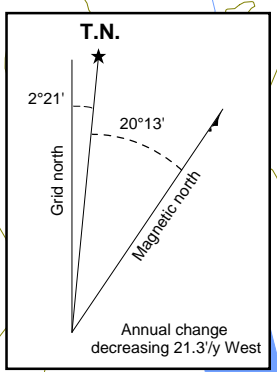
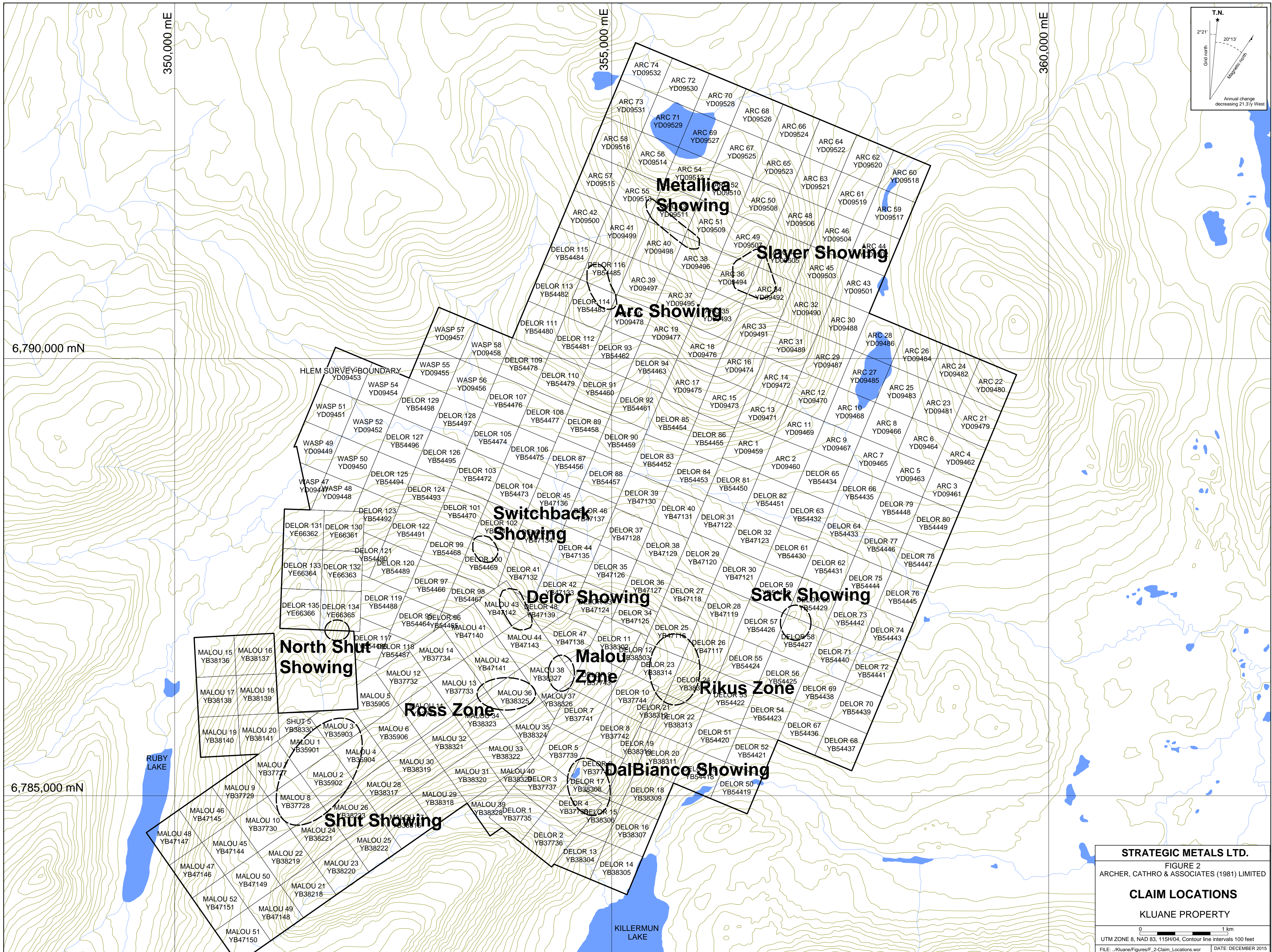
**CERTIFICATE COMMENTS**

**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

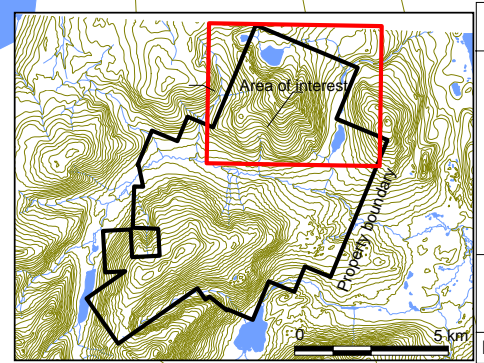
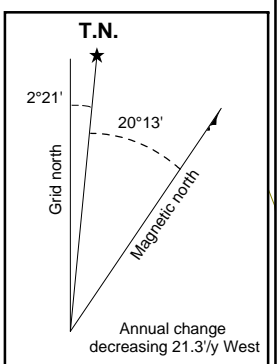
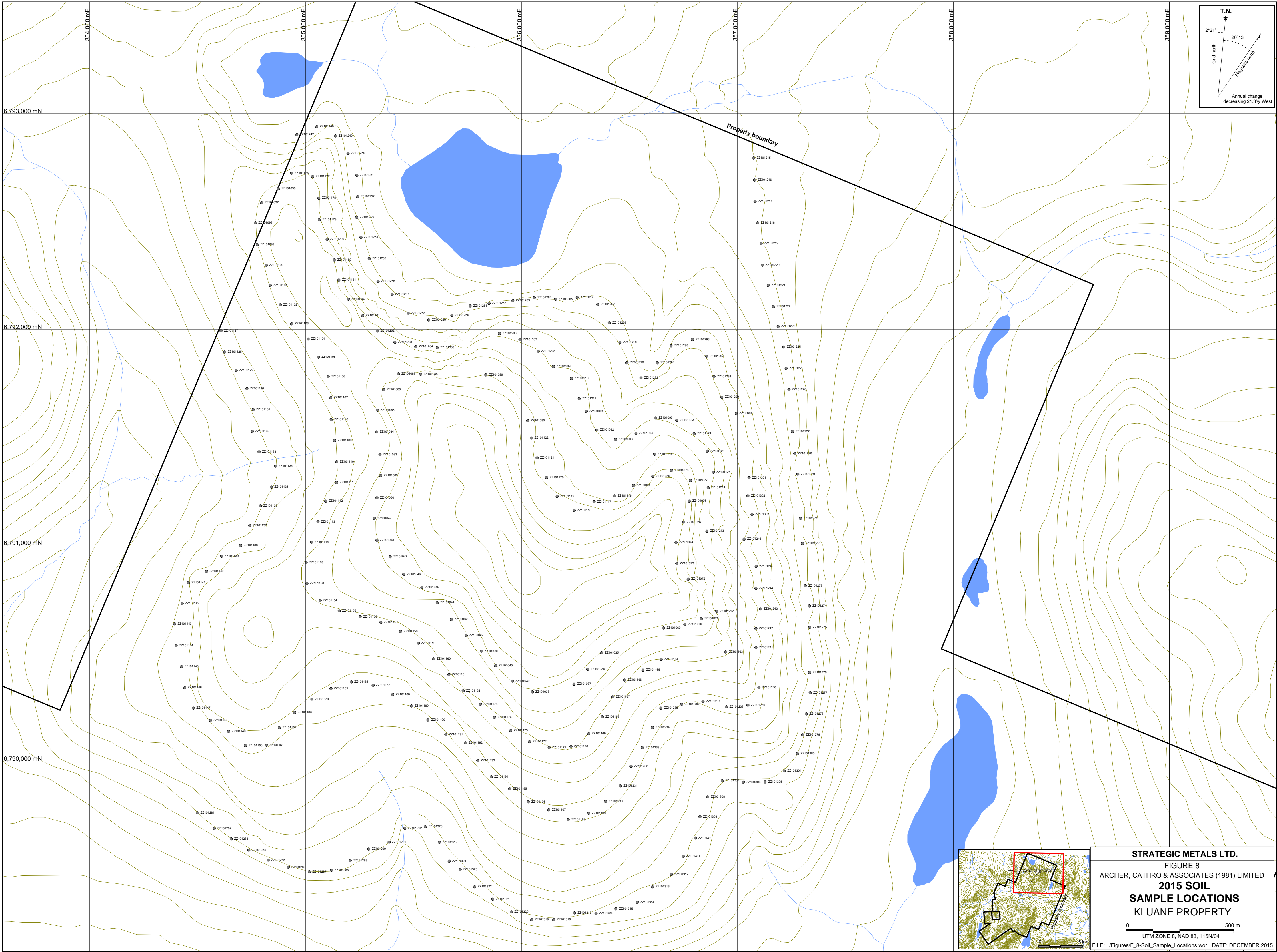




**STRATEGIC METALS LTD.**  
 FIGURE 2  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**CLAIM LOCATIONS**  
 KLUANE PROPERTY

0 1 km  
 UTM ZONE 8, NAD 83, 115H/04, Contour line intervals 100 feet  
 FILE: ..\Kluane\Figures\F-2-Claim\_Locations.wor DATE: DECEMBER 2015



**STRATEGIC METALS LTD.**  
**FIGURE 8**  
**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**2015 SOIL**  
**SAMPLE LOCATIONS**  
**KLUANE PROPERTY**

0 500 m  
 UTM ZONE 8, NAD 83, 115N/04



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**CERTIFICATE WH15112753**

Project: KLUANE

This report is for 40 Rock samples submitted to our lab in Whitehorse, YT, Canada on 29-JUL-2015.

The following have access to data associated with this certificate:

HEATHER BURRELL JARED TARSWELL	MATT DUMALA	JOAN MARIACHER
-----------------------------------	-------------	----------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
BAG-06	Double Bagging Coarse Rejects
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Pb-OG62	Ore Grade Pb - Four Acid	VARIABLE
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE
As-OG62	Ore Grade As - Four Acid	VARIABLE
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
ME-MS61	48 element four acid ICP-MS	
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES

To: **ROCKHAVEN RESOURCES LTD.**  
**ATTN: JOAN MARIACHER**  
**C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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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: KLUANE

**CERTIFICATE OF ANALYSIS WH15112753**

Sample Description	Method	WEI-21	Au-AA24	Au-GRA22	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
Units		kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
K283829		1.40	0.009		0.07	5.30	3.3	730	1.27	0.02	0.47	0.04	20.2	0.8	6	1.14
K283830		1.55	0.005		0.13	6.87	1.6	3210	1.46	0.03	2.11	0.04	31.1	3.3	37	1.53
K283831		1.38	<0.005		0.07	6.55	1.1	730	0.80	0.03	6.44	0.22	40.9	39.3	537	1.23
K283832		1.31	0.006		0.02	1.93	0.9	620	0.34	0.02	0.22	0.03	2.03	0.4	16	0.47
K283833		0.98	<0.005		0.29	6.84	28.2	2260	2.05	0.32	0.13	0.13	84.1	0.5	5	0.68
K283834		1.51	<0.005		0.42	6.97	6.3	2110	2.46	0.50	0.12	0.07	78.4	0.5	3	0.67
K283835		1.04	0.571		1.69	7.46	>10000	280	1.48	1.12	4.40	48.8	36.3	17.6	27	1.20
K283836		1.12	0.179		6.17	0.67	>10000	50	0.11	9.42	0.22	57.2	2.60	3.6	27	0.21
K283837		2.07	2.93		85.1	1.75	>10000	80	0.25	112.0	1.03	140.0	3.73	7.3	67	0.31
K283838		1.55	>10.0	11.80	>100	1.41	>10000	70	0.23	113.0	2.62	313	6.84	6.4	30	0.24
K283839		0.94	0.010		0.38	7.18	423	1880	1.50	0.57	1.73	0.93	21.9	3.0	11	1.98
K283840		1.47	0.309		3.20	2.57	>10000	160	0.31	10.85	4.71	15.65	7.20	17.8	68	0.47
K283841		0.98	0.152		10.40	6.35	>10000	240	0.70	17.95	2.69	178.5	19.20	21.0	128	0.94
K283842		1.43	0.114		2.19	2.31	>10000	160	0.32	3.80	5.20	49.0	18.80	4.0	11	0.51
K283843		1.08	0.049		1.20	5.07	285	470	1.33	2.78	12.20	0.87	44.3	15.1	15	1.38
K283844		1.30	<0.005		0.10	1.13	72.2	740	0.49	0.07	0.44	0.40	5.87	1.5	31	0.35
K283845		1.07	<0.005		0.06	6.99	12.5	2000	2.81	0.04	8.35	0.23	67.2	6.6	40	0.72
K283846		0.83	<0.005		0.17	7.16	27.8	890	1.40	0.14	6.83	0.40	88.9	22.6	296	2.28
K283847		0.62	0.393		1.60	4.44	>10000	520	0.61	9.89	0.47	0.50	31.3	19.2	15	0.69
K283848		0.96	0.019		0.36	0.72	344	80	0.20	0.15	0.07	0.35	2.59	0.7	16	0.28
K283849		1.07	0.008		0.12	8.68	81.7	790	0.70	0.09	0.19	0.15	3.71	0.6	10	2.05
N832451		0.56	9.85		11.90	0.14	>10000	30	0.05	144.0	0.01	0.24	0.53	1.6	7	<0.05
N832452		0.99	0.369		28.2	4.53	>10000	520	1.01	63.1	0.07	34.9	23.8	1.0	13	0.79
N832453		1.02	0.033		0.08	0.22	477	120	0.06	0.32	0.02	0.06	0.49	0.2	14	0.30
N832454		0.64	0.012		0.17	7.52	226	1560	1.41	0.22	2.24	0.88	53.5	13.1	35	1.32
N832455		1.50	<0.005		0.05	3.50	34.2	800	2.50	0.15	14.25	2.40	40.9	9.4	10	2.09
N832456		0.84	0.640		39.1	3.98	>10000	410	0.79	60.4	0.12	47.9	24.7	1.9	12	0.71
N832457		1.35	1.420		9.72	1.22	>10000	130	0.27	13.10	0.08	36.5	4.75	2.3	16	0.18
N832458		1.05	2.31		63.0	0.71	>10000	80	0.11	143.5	0.03	73.7	2.97	9.4	2	0.14
N832459		0.90	5.69		77.7	0.98	>10000	90	0.21	97.0	5.79	74.4	10.60	1.9	15	0.24
N832460		1.34	8.71		55.3	4.40	>10000	760	0.80	53.5	0.46	143.0	28.9	2.1	37	0.86
N832461		1.27	0.016		0.30	9.03	352	1080	0.71	0.36	5.25	0.67	38.9	25.8	43	2.17
N832462		0.60	1.245		7.80	3.95	>10000	280	0.61	29.4	2.21	75.4	29.2	16.0	38	1.14
N832463		1.11	0.031		0.36	7.20	443	2190	1.88	0.21	0.09	0.34	87.3	0.4	3	0.66
N832464		1.77	0.672		29.4	0.76	>10000	50	0.10	45.5	0.05	491	2.61	6.0	34	0.16
N832465		0.83	3.90		>100	1.93	>10000	280	0.45	14.65	0.08	167.0	14.60	7.6	10	0.41
N832466		1.19	0.005		0.63	8.20	391	1050	2.11	0.33	1.82	3.11	47.8	8.0	22	2.35
N832467		0.99	0.012		1.44	7.62	433	1700	1.52	0.23	1.80	6.35	40.5	6.4	19	2.85
N832468		1.74	1.085		27.7	2.50	>10000	160	0.36	45.5	2.02	31.4	11.60	7.9	21	0.49
N832469		1.16	<0.005		0.27	6.49	345	250	1.96	0.31	4.89	0.36	91.1	10.6	79	0.21



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 Account: ROCKHA

Project: KLUANE

**CERTIFICATE OF ANALYSIS WH15112753**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
K283829		6.9	0.60	13.65	0.09	0.5	<0.005	4.51	10.6	6.0	0.07	66	0.43	1.34	5.0	1.5
K283830		28.1	2.93	18.30	0.11	0.2	0.024	3.31	15.6	15.4	0.70	321	7.70	1.85	14.8	4.9
K283831		28.8	6.97	15.60	0.13	1.4	0.062	0.98	19.2	14.4	5.38	1300	0.40	1.61	9.7	31.5
K283832		1.7	0.39	3.29	0.06	0.5	<0.005	1.54	1.1	2.9	0.03	44	0.18	0.45	0.7	1.3
K283833		7.2	1.30	22.4	0.15	4.3	0.037	3.80	44.3	7.8	0.08	71	1.62	2.57	12.9	0.7
K283834		7.8	1.37	22.6	0.30	5.0	0.046	3.88	38.5	9.8	0.07	80	2.02	2.67	12.2	<0.2
K283835		22.3	6.11	24.3	0.34	0.6	0.107	3.22	15.7	24.2	1.50	2550	0.31	0.04	10.9	6.1
K283836		38.2	3.31	2.81	0.18	0.1	1.155	0.27	1.1	5.1	0.14	264	0.28	0.01	0.6	1.0
K283837		83.2	14.50	7.19	0.21	0.1	2.14	0.77	1.7	7.8	0.37	644	0.30	0.01	1.0	3.0
K283838		148.0	9.67	5.36	0.16	0.1	3.24	0.70	3.2	6.4	0.18	1710	0.17	0.01	1.1	1.5
K283839		12.3	1.83	18.05	0.11	0.5	0.032	4.02	10.4	13.6	0.38	274	0.34	2.10	4.6	1.8
K283840		4.1	5.30	6.89	0.13	0.2	0.195	0.96	3.2	9.5	0.92	1610	0.42	0.02	1.5	3.5
K283841		265	11.15	16.85	0.13	0.4	1.995	2.12	8.7	23.6	2.57	1470	0.82	0.03	3.6	6.2
K283842		24.3	1.82	8.13	0.16	0.2	0.264	1.01	9.8	5.4	0.49	1380	0.17	0.03	2.3	1.3
K283843		84.2	9.15	13.10	0.13	1.1	0.778	1.86	23.8	7.5	0.36	3460	0.23	0.09	5.7	8.6
K283844		11.2	0.78	2.69	0.08	0.1	0.007	0.38	3.1	2.1	0.21	172	0.82	0.34	1.1	5.6
K283845		11.4	2.54	16.45	0.16	0.8	0.046	2.25	29.9	4.6	2.37	868	1.30	1.55	13.5	16.4
K283846		63.8	6.94	18.95	0.18	0.6	0.087	2.16	37.8	19.8	3.92	1260	2.63	2.26	31.6	63.4
K283847		3.9	4.11	11.85	0.18	0.2	0.044	2.61	15.8	10.3	0.36	153	0.61	0.77	4.5	3.9
K283848		11.7	0.64	1.57	0.08	0.1	0.007	0.45	1.1	1.6	0.02	60	0.29	0.20	0.7	1.1
K283849		6.5	0.37	18.60	0.09	0.2	<0.005	4.63	1.7	1.4	0.03	62	0.14	1.72	1.8	0.8
N832451		285	17.10	1.65	0.13	<0.1	0.116	0.05	<0.5	2.3	0.01	54	0.90	0.01	0.1	<0.2
N832452		187.5	6.37	14.55	0.16	0.4	8.08	2.29	12.5	5.1	0.26	122	0.49	0.07	3.5	0.8
N832453		2.6	0.48	0.52	0.07	<0.1	0.009	0.14	<0.5	7.0	<0.01	37	0.52	0.07	0.2	1.1
N832454		18.8	4.30	17.10	0.15	0.4	0.057	2.44	25.5	6.3	0.84	2020	0.94	0.79	10.6	18.5
N832455		2.6	3.50	9.39	0.11	1.3	0.081	0.86	21.3	16.9	8.24	1320	0.72	0.13	9.4	15.0
N832456		413	9.63	13.55	0.15	0.3	7.05	2.04	13.0	5.7	0.26	165	0.63	0.05	2.9	0.8
N832457		378	3.26	4.17	0.09	0.1	1.885	0.56	2.2	11.0	0.16	75	0.35	0.01	1.0	0.7
N832458		1660	20.2	2.50	0.14	0.1	7.89	0.32	1.4	2.0	0.06	54	1.10	0.01	0.6	<0.2
N832459		4660	14.30	3.21	0.12	0.1	8.04	0.28	5.4	2.6	0.20	3840	0.37	0.15	0.9	1.2
N832460		603	10.65	13.85	0.12	0.3	4.48	2.22	14.2	11.0	0.60	318	0.60	0.22	4.1	1.7
N832461		23.8	6.86	21.8	0.15	0.5	0.095	1.18	16.8	14.9	2.71	1080	1.21	1.96	9.5	6.6
N832462		17.3	7.38	8.19	0.12	0.2	0.908	1.74	14.6	2.9	0.98	841	1.57	0.02	2.7	9.6
N832463		13.0	1.35	20.2	0.17	5.0	0.038	3.65	45.2	8.8	0.06	97	1.30	2.75	12.6	1.1
N832464		192.5	11.75	3.77	0.17	0.1	7.88	0.34	1.2	6.6	0.13	268	0.18	0.01	0.7	1.7
N832465		771	7.33	5.52	0.11	0.1	0.582	0.96	7.6	8.9	0.16	219	0.89	0.14	1.7	1.7
N832466		13.7	3.41	22.8	0.12	0.4	0.092	2.20	23.2	18.5	0.77	576	1.04	2.60	10.3	4.1
N832467		24.3	3.14	19.30	0.15	0.4	0.055	2.99	18.7	14.9	0.67	509	0.51	2.23	8.3	3.8
N832468		29.7	11.15	6.92	0.16	0.3	0.275	1.05	5.2	11.0	0.60	1060	0.85	0.02	2.4	1.6
N832469		40.8	3.28	17.60	0.16	0.9	0.057	0.43	42.7	4.4	0.93	778	1.14	2.43	20.3	18.7



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Project: KLUANE

**CERTIFICATE OF ANALYSIS WH15112753**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K283829		100	26.1	138.5	<0.002	0.01	0.11	1.0	1	0.3	135.0	0.70	<0.05	8.3	0.037	0.60
K283830		600	16.9	94.3	<0.002	0.26	0.09	4.9	1	0.7	488	0.69	0.06	3.1	0.346	0.51
K283831		1150	7.5	29.5	<0.002	0.01	0.10	42.8	2	1.0	430	0.48	<0.05	3.1	0.693	0.21
K283832		20	5.0	25.5	<0.002	<0.01	0.08	0.3	<1	<0.2	95.0	0.20	<0.05	10.5	0.016	0.13
K283833		120	42.2	104.5	<0.002	0.13	0.90	3.6	1	1.2	217	0.91	<0.05	12.2	0.068	0.55
K283834		100	35.5	91.3	<0.002	0.08	1.04	3.9	1	1.8	220	1.01	<0.05	12.2	0.068	0.62
K283835		1810	145.0	108.0	<0.002	1.70	48.5	18.2	2	23.6	128.0	0.62	<0.05	2.5	0.643	0.72
K283836		100	176.0	8.8	<0.002	1.61	34.9	2.1	1	2.2	6.1	<0.05	<0.05	0.3	0.044	0.09
K283837		180	5030	23.0	<0.002	7.76	209	4.6	2	6.1	37.6	0.06	0.05	0.3	0.078	0.23
K283838		220	8190	20.0	<0.002	6.63	154.0	3.0	2	5.6	53.1	0.06	0.05	0.7	0.072	0.18
K283839		500	45.5	86.7	<0.002	0.09	0.75	2.1	1	1.5	493	0.43	<0.05	5.8	0.197	0.51
K283840		340	301	24.1	<0.002	2.67	87.7	10.8	1	3.6	153.0	0.10	<0.05	0.6	0.151	0.16
K283841		830	561	49.9	<0.002	6.69	43.7	25.3	2	6.6	102.5	0.22	<0.05	1.2	0.371	0.30
K283842		380	299	25.8	<0.002	0.81	17.45	5.1	1	2.2	273	0.14	<0.05	2.1	0.164	0.15
K283843		260	15.7	74.7	<0.002	3.31	5.78	4.4	1	38.6	693	0.82	<0.05	17.2	0.088	0.47
K283844		30	6.4	14.2	<0.002	0.07	0.41	1.4	1	0.2	48.4	0.16	<0.05	4.6	0.021	0.08
K283845		770	10.3	52.2	0.002	0.02	0.18	7.0	1	1.3	838	1.25	<0.05	11.8	0.243	0.26
K283846		1280	9.1	109.5	0.002	0.15	0.43	23.9	2	1.3	524	2.10	0.07	6.4	1.185	0.64
K283847		430	45.6	55.5	<0.002	1.35	18.50	6.5	1	3.6	215	0.33	0.07	5.3	0.151	0.41
K283848		20	4.0	10.3	<0.002	0.01	0.92	0.3	<1	0.2	18.3	0.25	<0.05	1.8	0.011	0.07
K283849		20	49.4	93.6	<0.002	<0.01	0.31	0.4	<1	0.3	122.0	0.72	<0.05	2.3	0.011	1.16
N832451		190	33.2	1.3	<0.002	0.31	102.5	1.2	5	<0.2	3.7	<0.05	0.28	0.7	<0.005	0.02
N832452		320	225	66.7	<0.002	1.79	45.6	4.0	1	11.8	28.8	0.28	0.06	5.5	0.121	0.37
N832453		20	1.8	4.1	<0.002	0.01	0.38	0.1	<1	0.2	8.3	<0.05	<0.05	1.1	0.007	0.02
N832454		1130	26.0	83.4	<0.002	0.29	47.7	9.0	1	1.7	129.5	0.64	<0.05	6.9	0.427	0.51
N832455		370	2.4	34.9	<0.002	0.05	9.58	2.3	1	1.8	360	1.83	<0.05	25.6	0.056	0.22
N832456		330	226	60.4	<0.002	3.12	54.2	4.6	1	9.6	44.7	0.23	0.15	4.7	0.119	0.36
N832457		170	1105	13.7	<0.002	1.67	51.2	2.3	1	3.8	14.3	0.07	0.05	0.6	0.077	0.09
N832458		140	838	9.1	<0.002	>10.0	270	1.2	3	2.6	8.8	<0.05	0.27	0.3	0.042	0.07
N832459		520	2140	10.2	<0.002	3.20	601	4.2	2	1.2	213	0.06	0.12	1.4	0.065	0.10
N832460		930	5330	62.3	<0.002	0.57	151.5	10.2	1	8.2	371	0.26	0.14	3.9	0.250	0.47
N832461		1750	12.2	26.6	<0.002	0.37	3.06	25.8	1	0.6	679	0.44	<0.05	1.0	0.836	0.35
N832462		650	2880	51.8	<0.002	4.65	1385	5.8	2	3.4	199.0	0.15	0.05	3.2	0.189	0.43
N832463		90	39.2	111.0	<0.002	0.19	3.60	3.5	1	1.8	180.5	0.98	<0.05	13.5	0.068	0.76
N832464		110	1065	12.2	<0.002	8.03	131.0	2.5	2	2.7	13.0	<0.05	<0.05	0.3	0.048	0.14
N832465		170	>10000	27.1	<0.002	3.99	174.0	2.3	1	5.7	25.9	0.14	<0.05	2.1	0.059	0.47
N832466		800	97.8	71.5	<0.002	0.05	2.00	10.6	1	3.4	352	0.77	<0.05	8.2	0.351	0.47
N832467		660	267	84.2	<0.002	0.02	2.78	10.4	1	3.2	341	0.61	<0.05	6.9	0.294	0.54
N832468		360	1280	34.4	<0.002	6.13	131.5	5.4	2	6.8	58.8	0.15	0.08	0.9	0.164	0.28
N832469		560	22.8	9.1	<0.002	0.37	0.72	11.7	2	2.7	585	1.48	0.09	12.6	0.535	0.07



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 Account: ROCKHA

Project: KLUANE

**CERTIFICATE OF ANALYSIS WH15112753**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Pb-OG62	Zn-OG62	As-OG62
		U	V	W	Y	Zn	Zr	Ag	Pb	Zn	As
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
		0.1	1	0.1	0.1	2	0.5	1	0.001	0.001	0.001
K283829		2.6	4	0.1	6.9	10	13.0				
K283830		1.2	50	0.3	7.3	56	3.8				
K283831		0.5	254	0.2	23.9	105	35.5				
K283832		2.8	2	0.1	1.1	4	11.0				
K283833		3.7	2	1.7	15.0	65	151.0				
K283834		4.0	2	1.5	14.2	67	153.5				
K283835		0.8	114	49.0	19.2	8200	10.0				3.45
K283836		0.1	16	6.1	1.2	4930	2.6				2.63
K283837		0.2	38	8.5	2.4	8970	3.1				16.45
K283838		0.2	23	9.3	3.3	>10000	2.6	89		2.56	10.85
K283839		2.3	26	0.2	6.8	104	10.3				
K283840		0.1	96	7.5	4.7	1420	3.4				5.40
K283841		0.3	217	16.7	8.8	>10000	9.6			1.380	2.72
K283842		0.2	36	4.4	5.7	4330	4.9				0.997
K283843		4.7	25	0.9	13.7	144	33.2				
K283844		0.9	13	0.2	2.4	43	1.2				
K283845		4.0	67	0.6	25.7	86	17.0				
K283846		2.1	202	0.5	36.6	127	12.5				
K283847		2.0	29	3.1	6.8	33	3.5				3.93
K283848		1.2	2	0.1	1.7	15	2.1				
K283849		0.9	1	0.2	2.6	23	3.1				
N832451		0.3	10	0.1	0.2	20	<0.5				23.2
N832452		1.4	22	2.4	3.8	710	8.9				2.25
N832453		0.2	1	0.1	0.2	3	0.5				
N832454		1.2	100	1.2	11.0	217	10.4				
N832455		19.5	35	1.2	16.7	402	25.1				
N832456		1.7	28	2.6	4.9	1670	6.8				2.88
N832457		0.3	20	3.0	2.0	1800	1.3				2.16
N832458		0.6	10	4.0	1.5	3390	1.2				24.6
N832459		0.8	18	1.1	4.0	3960	5.5				18.80
N832460		0.8	88	3.3	8.2	2020	7.7				8.59
N832461		0.2	170	0.3	19.9	166	10.9				
N832462		0.4	50	7.8	6.7	6890	6.3				6.45
N832463		5.2	1	2.0	15.2	61	151.0				
N832464		0.2	18	11.9	0.9	>10000	3.1			3.27	12.05
N832465		1.9	12	3.1	4.1	>10000	2.5	107	1.830	1.200	5.89
N832466		2.9	51	1.2	17.5	333	5.7				
N832467		2.2	44	1.3	16.9	795	6.5				
N832468		0.4	38	8.7	5.2	2730	4.8				12.40
N832469		3.1	78	0.9	29.5	62	15.9				



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Project: KLUANE

**CERTIFICATE OF ANALYSIS WH15112753**

	<b>CERTIFICATE COMMENTS</b>								
Applies to Method:	<p style="text-align: center;"><b>ANALYTICAL COMMENTS</b></p> <p>REE's may not be totally soluble in this method.            ME-MS61</p>								
Applies to Method:	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">BAG-06</td> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 15%;">LOG-21</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	BAG-06	CRU-31	CRU-QC	LOG-21	PUL-31	PUL-QC	SPL-21	WEI-21
BAG-06	CRU-31	CRU-QC	LOG-21						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Ag-OG62</td> <td style="width: 33%;">As-OG62</td> <td style="width: 33%;">Au-AA24</td> <td style="width: 15%;">Au-GRA22</td> </tr> <tr> <td>ME-MS61</td> <td>ME-OG62</td> <td>Pb-OG62</td> <td>Zn-OG62</td> </tr> </table>	Ag-OG62	As-OG62	Au-AA24	Au-GRA22	ME-MS61	ME-OG62	Pb-OG62	Zn-OG62
Ag-OG62	As-OG62	Au-AA24	Au-GRA22						
ME-MS61	ME-OG62	Pb-OG62	Zn-OG62						





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**CERTIFICATE WH15112761**

Project: KLUANE

This report is for 274 Soil samples submitted to our lab in Whitehorse, YT, Canada on 29-JUL-2015.

The following have access to data associated with this certificate:

HEATHER BURRELL JARED TARSWELL	MATT DUMALA	JOAN MARIACHER
-----------------------------------	-------------	----------------

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

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

To: **ROCKHAVEN RESOURCES LTD.**  
**ATTN: JOAN MARIACHER**  
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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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<b>CERTIFICATE OF ANALYSIS</b>	<b>WH15112761</b>
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Sample Description	Method Analyte Units LOR	WEI-21	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
		Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
ZZ101035		0.31	<0.2	2.34	14	<10	330	<0.5	<2	0.38	<0.5	13	41	26	3.23	10
ZZ101036		0.35	<0.2	2.15	30	<10	220	<0.5	2	0.28	<0.5	12	36	23	2.96	10
ZZ101037		0.32	<0.2	2.36	34	<10	280	<0.5	<2	0.30	<0.5	11	38	23	3.13	10
ZZ101038		0.29	<0.2	1.85	31	<10	150	<0.5	2	0.28	<0.5	11	37	26	3.02	10
ZZ101039		0.29	<0.2	1.80	17	<10	270	<0.5	<2	0.29	<0.5	12	32	20	2.93	10
ZZ101040		0.23	<0.2	2.47	64	<10	320	<0.5	2	0.43	<0.5	18	45	32	3.82	10
ZZ101041		0.26	<0.2	2.41	35	<10	300	<0.5	<2	0.37	<0.5	15	44	26	3.37	10
ZZ101042		0.20	<0.2	1.85	27	<10	230	<0.5	<2	0.55	<0.5	13	37	26	3.02	10
ZZ101043		0.26	<0.2	2.35	30	<10	320	<0.5	<2	0.58	<0.5	15	41	25	3.30	10
ZZ101044		0.25	<0.2	1.68	12	<10	580	<0.5	<2	0.58	<0.5	12	37	27	2.93	10
ZZ101045		0.29	0.2	2.82	65	<10	390	<0.5	<2	0.45	<0.5	18	49	26	3.78	10
ZZ101046		0.24	<0.2	2.39	27	<10	300	<0.5	<2	0.37	<0.5	15	45	22	3.39	10
ZZ101047		0.23	<0.2	2.17	33	<10	200	<0.5	<2	0.36	<0.5	13	40	25	3.29	10
ZZ101048		0.26	<0.2	2.26	27	<10	180	<0.5	3	0.25	<0.5	13	34	23	2.89	10
ZZ101049		0.27	<0.2	2.25	31	<10	270	<0.5	<2	0.44	<0.5	14	31	25	3.42	10
ZZ101050		0.33	<0.2	1.97	20	<10	210	<0.5	<2	0.39	<0.5	11	36	21	2.92	10
ZZ101069		0.21	<0.2	1.68	67	<10	250	<0.5	<2	0.51	<0.5	11	39	18	2.72	<10
ZZ101070		0.29	<0.2	1.80	54	<10	310	<0.5	<2	0.41	<0.5	13	38	20	3.03	10
ZZ101071		0.18	<0.2	1.90	39	<10	170	<0.5	<2	0.26	<0.5	12	33	22	3.26	10
ZZ101072		0.26	<0.2	1.81	163	<10	160	<0.5	<2	0.35	<0.5	16	41	33	3.22	10
ZZ101073		0.24	<0.2	1.81	45	<10	230	<0.5	2	0.51	<0.5	15	48	31	3.22	10
ZZ101074		0.25	<0.2	1.60	48	<10	200	<0.5	<2	0.47	<0.5	13	39	34	3.08	<10
ZZ101075		0.40	<0.2	2.64	45	<10	260	<0.5	2	0.44	<0.5	17	37	34	3.88	10
ZZ101076		0.38	<0.2	2.13	56	<10	210	<0.5	<2	0.46	<0.5	15	38	26	3.56	10
ZZ101077		0.28	<0.2	1.49	34	<10	130	<0.5	2	0.45	<0.5	15	35	32	2.91	<10
ZZ101078		0.38	<0.2	2.08	44	<10	180	<0.5	3	0.34	<0.5	14	26	21	3.56	10
ZZ101079		0.29	<0.2	2.16	27	<10	250	<0.5	3	0.31	<0.5	14	36	18	3.55	10
ZZ101080		0.27	<0.2	2.15	14	<10	220	<0.5	2	0.77	<0.5	15	115	23	3.40	10
ZZ101081		0.34	<0.2	2.04	15	<10	160	<0.5	3	0.28	<0.5	12	33	23	3.36	10
ZZ101082		0.26	<0.2	2.32	32	<10	340	<0.5	3	0.59	<0.5	17	36	29	4.00	10
ZZ101083		0.22	<0.2	2.40	35	<10	300	<0.5	<2	0.37	<0.5	16	44	24	3.78	10
ZZ101084		0.33	<0.2	2.21	23	<10	210	<0.5	<2	0.30	<0.5	13	37	23	3.07	10
ZZ101085		0.19	0.2	2.49	85	<10	230	0.5	2	0.58	<0.5	18	66	38	3.88	10
ZZ101086		0.27	<0.2	2.52	28	<10	220	<0.5	2	0.63	<0.5	17	71	31	3.76	10
ZZ101087		0.26	<0.2	2.33	46	<10	280	<0.5	<2	0.64	<0.5	16	57	33	4.02	10
ZZ101088		0.43	<0.2	2.80	61	<10	360	<0.5	<2	0.68	<0.5	28	108	77	5.75	10
ZZ101089		0.32	<0.2	2.11	84	<10	220	<0.5	2	0.50	<0.5	15	52	36	3.73	10
ZZ101090		0.30	<0.2	2.13	88	<10	200	<0.5	2	0.37	<0.5	17	48	34	3.81	10
ZZ101091		0.21	0.2	1.42	47	<10	230	<0.5	<2	0.68	0.7	16	29	25	2.54	10
ZZ101092		0.18	0.2	1.81	116	<10	250	<0.5	<2	0.45	<0.5	11	32	25	3.19	10

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



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

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

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Project: KLUANE

**CERTIFICATE OF ANALYSIS WH15112761**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	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
ZZ101035		<1	0.18	10	0.88	481	1	0.03	20	910	6	0.05	<2	3	34	<20
ZZ101036		<1	0.18	10	0.73	414	<1	0.02	20	580	6	0.04	<2	3	22	<20
ZZ101037		<1	0.24	10	0.83	385	1	0.02	21	640	10	0.04	2	3	26	<20
ZZ101038		<1	0.09	10	0.68	498	1	0.01	23	530	6	0.05	<2	2	24	<20
ZZ101039		<1	0.29	10	0.77	390	<1	0.02	17	630	6	0.04	<2	3	25	<20
ZZ101040		<1	0.25	10	1.02	653	<1	0.02	24	1010	9	0.08	<2	4	40	<20
ZZ101041		<1	0.25	10	0.94	548	1	0.03	23	830	6	0.06	<2	3	33	<20
ZZ101042		<1	0.24	10	0.88	445	<1	0.03	18	930	7	0.07	<2	3	37	<20
ZZ101043		<1	0.31	10	0.99	488	<1	0.04	20	1220	10	0.08	2	3	45	<20
ZZ101044		<1	0.08	10	0.63	658	1	0.02	21	1450	6	0.13	<2	2	48	<20
ZZ101045		<1	0.37	10	1.17	664	<1	0.04	23	920	15	0.04	<2	5	52	<20
ZZ101046		<1	0.29	10	1.09	422	<1	0.02	20	820	7	0.06	<2	3	43	<20
ZZ101047		<1	0.14	10	0.87	452	1	0.02	23	830	8	0.08	<2	3	35	<20
ZZ101048		<1	0.25	10	0.79	466	<1	0.02	21	480	6	0.04	<2	4	26	<20
ZZ101049		<1	0.38	10	0.96	562	<1	0.04	20	980	11	0.04	<2	4	45	<20
ZZ101050		<1	0.24	10	0.84	411	<1	0.02	20	940	6	0.03	<2	3	29	<20
ZZ101069		<1	0.34	10	0.79	373	<1	0.03	16	1110	9	0.07	<2	2	34	<20
ZZ101070		<1	0.39	10	0.85	390	<1	0.02	17	680	6	0.04	<2	3	31	<20
ZZ101071		<1	0.14	10	0.72	438	1	0.02	18	880	9	0.11	<2	2	24	<20
ZZ101072		<1	0.12	10	0.74	583	1	0.02	24	870	28	0.07	<2	3	32	<20
ZZ101073		<1	0.24	10	0.87	489	1	0.03	24	980	11	0.10	<2	3	39	<20
ZZ101074		<1	0.23	10	0.68	532	1	0.03	20	770	11	0.11	<2	3	34	<20
ZZ101075		<1	0.13	10	1.08	666	1	0.03	26	730	17	0.06	<2	4	75	<20
ZZ101076		<1	0.26	10	0.97	585	1	0.02	20	1030	18	0.06	<2	3	28	<20
ZZ101077		<1	0.14	10	0.61	626	1	0.03	23	880	11	0.11	<2	3	33	<20
ZZ101078		<1	0.36	10	0.96	464	<1	0.02	16	820	22	0.06	<2	3	36	<20
ZZ101079		<1	0.28	10	0.95	472	<1	0.02	19	460	9	0.03	<2	3	24	<20
ZZ101080		<1	0.29	10	1.50	564	<1	0.08	22	1430	8	0.05	<2	4	79	<20
ZZ101081		<1	0.17	10	0.85	439	1	0.02	22	700	7	0.06	<2	3	26	<20
ZZ101082		<1	0.34	10	1.14	622	<1	0.03	21	1560	15	0.07	<2	5	44	<20
ZZ101083		<1	0.36	10	1.03	678	<1	0.02	22	900	9	0.07	<2	4	39	<20
ZZ101084		<1	0.29	10	0.84	442	<1	0.02	22	690	7	0.04	<2	3	28	<20
ZZ101085		<1	0.29	10	1.14	820	1	0.03	35	1100	13	0.09	<2	5	59	<20
ZZ101086		<1	0.27	10	1.33	631	<1	0.03	36	1230	13	0.10	<2	4	61	<20
ZZ101087		<1	0.45	10	1.22	640	<1	0.03	37	1430	8	0.07	<2	5	44	<20
ZZ101088		<1	1.30	10	1.64	661	1	0.05	63	1060	10	0.35	<2	11	64	<20
ZZ101089		<1	0.34	10	1.05	551	1	0.02	30	1310	8	0.08	<2	4	34	<20
ZZ101090		<1	0.24	10	1.02	636	<1	0.02	29	1090	11	0.07	<2	4	32	<20
ZZ101091		1	0.11	10	0.54	1060	1	0.01	17	1250	7	0.17	<2	2	51	<20
ZZ101092		<1	0.22	10	0.70	591	1	0.02	17	970	10	0.10	3	4	38	<20



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

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 C/O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016 - 510 W HASTINGS STREET  
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 Account: ROCKHA

Project: KLUANE

**CERTIFICATE OF ANALYSIS WH15112761**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Au-ICP21
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Au ppm
		0.01	10	10	1	10	2	0.001
ZZ101035		0.18	<10	<10	71	<10	71	0.008
ZZ101036		0.17	<10	<10	66	<10	62	0.016
ZZ101037		0.21	<10	<10	70	<10	66	0.004
ZZ101038		0.10	<10	<10	67	<10	65	0.003
ZZ101039		0.21	<10	<10	62	<10	63	0.004
ZZ101040		0.19	<10	<10	82	<10	91	0.010
ZZ101041		0.19	<10	<10	74	<10	79	0.002
ZZ101042		0.19	<10	<10	67	<10	82	0.003
ZZ101043		0.20	<10	<10	73	<10	80	0.005
ZZ101044		0.08	<10	<10	64	<10	72	0.004
ZZ101045		0.21	<10	<10	81	<10	86	0.016
ZZ101046		0.18	<10	<10	73	<10	69	0.005
ZZ101047		0.12	<10	<10	69	<10	74	0.005
ZZ101048		0.16	<10	<10	62	<10	62	0.028
ZZ101049		0.20	<10	<10	68	<10	85	0.030
ZZ101050		0.16	<10	<10	62	<10	64	0.014
ZZ101069		0.17	<10	<10	62	<10	81	0.003
ZZ101070		0.20	<10	<10	64	<10	84	0.004
ZZ101071		0.12	<10	<10	70	<10	82	0.004
ZZ101072		0.13	<10	<10	67	<10	113	0.033
ZZ101073		0.18	<10	<10	70	<10	97	0.004
ZZ101074		0.16	<10	<10	63	<10	91	0.023
ZZ101075		0.20	<10	<10	72	<10	100	0.009
ZZ101076		0.20	<10	<10	76	<10	100	0.009
ZZ101077		0.11	<10	<10	60	<10	88	0.004
ZZ101078		0.23	<10	<10	76	<10	92	0.010
ZZ101079		0.24	<10	<10	77	<10	77	0.010
ZZ101080		0.19	<10	<10	74	<10	87	0.002
ZZ101081		0.19	<10	<10	76	<10	70	0.014
ZZ101082		0.20	<10	<10	80	<10	96	0.010
ZZ101083		0.20	<10	<10	81	<10	85	0.011
ZZ101084		0.17	<10	<10	66	<10	65	0.004
ZZ101085		0.15	<10	<10	85	<10	92	0.017
ZZ101086		0.17	<10	<10	84	<10	83	0.005
ZZ101087		0.26	<10	<10	88	<10	112	0.011
ZZ101088		0.46	<10	<10	120	<10	133	0.012
ZZ101089		0.23	<10	<10	84	<10	155	0.010
ZZ101090		0.19	<10	<10	84	<10	101	0.013
ZZ101091		0.09	<10	<10	53	<10	61	0.001
ZZ101092		0.16	<10	<10	62	<10	93	0.011



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

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 1016 - 510 W HASTINGS STREET  
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**CERTIFICATE OF ANALYSIS WH15112761**

Sample Description	Method Analyte Units LOR	WEI-21	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
		Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
ZZ101093		0.27	<0.2	1.76	17	<10	300	<0.5	<2	0.57	<0.5	12	27	21	2.82	10
ZZ101094		0.32	<0.2	1.82	22	<10	160	<0.5	<2	0.26	<0.5	11	31	20	3.03	10
ZZ101095		0.26	0.2	2.08	47	<10	200	<0.5	<2	0.30	<0.5	15	38	29	3.52	10
ZZ101096		0.27	<0.2	1.30	14	<10	120	<0.5	<2	0.32	<0.5	11	29	25	2.61	10
ZZ101097		0.39	<0.2	2.38	15	<10	270	<0.5	<2	0.50	<0.5	14	39	24	4.20	10
ZZ101098		0.29	<0.2	2.05	15	<10	160	<0.5	<2	0.35	<0.5	12	36	24	3.58	10
ZZ101099		0.28	<0.2	1.55	22	<10	180	<0.5	<2	0.33	<0.5	13	32	24	2.93	10
ZZ101100		0.24	<0.2	1.86	16	<10	210	<0.5	<2	0.77	<0.5	12	31	22	3.24	10
ZZ101101		0.21	<0.2	1.90	20	<10	180	<0.5	<2	0.50	<0.5	12	36	21	3.38	10
ZZ101102		0.24	<0.2	1.74	16	<10	170	<0.5	<2	0.58	<0.5	12	31	20	3.51	10
ZZ101103		0.27	<0.2	2.25	18	<10	280	<0.5	<2	0.53	<0.5	15	37	24	4.03	10
ZZ101104		0.28	<0.2	1.94	26	<10	160	<0.5	<2	0.41	<0.5	12	38	25	3.35	10
ZZ101105		0.21	1.0	2.27	50	<10	270	<0.5	<2	0.98	<0.5	10	26	25	3.34	10
ZZ101106		0.16	0.3	2.35	35	<10	260	<0.5	<2	0.67	<0.5	16	50	34	3.71	10
ZZ101107		0.17	0.2	1.30	17	<10	290	<0.5	<2	1.05	<0.5	11	26	25	2.32	10
ZZ101108		0.24	<0.2	1.79	25	<10	140	<0.5	<2	0.44	<0.5	12	40	26	3.06	10
ZZ101109		0.24	<0.2	2.23	40	<10	230	<0.5	<2	0.39	<0.5	14	40	24	3.51	10
ZZ101110		0.20	<0.2	2.02	29	<10	300	<0.5	<2	0.45	<0.5	14	35	24	3.54	10
ZZ101111		0.34	<0.2	1.47	30	<10	170	<0.5	<2	0.40	<0.5	10	32	29	2.67	10
ZZ101112		0.26	<0.2	2.14	13	<10	180	<0.5	<2	0.29	<0.5	10	34	24	3.46	10
ZZ101113		0.26	0.2	1.83	29	<10	280	<0.5	<2	0.43	<0.5	11	31	23	3.01	10
ZZ101114		0.29	<0.2	1.90	19	<10	170	<0.5	<2	0.37	<0.5	12	57	19	3.06	10
ZZ101115		0.28	<0.2	2.66	43	<10	420	<0.5	<2	0.43	<0.5	17	47	26	4.43	10
ZZ101116		0.25	<0.2	1.53	17	<10	130	<0.5	<2	0.44	<0.5	12	33	31	3.02	10
ZZ101117		0.32	0.2	2.01	99	<10	210	<0.5	<2	0.42	<0.5	15	39	29	3.49	10
ZZ101118		0.39	<0.2	1.89	26	<10	190	<0.5	<2	0.35	<0.5	13	42	29	2.98	10
ZZ101119		0.36	<0.2	1.49	100	<10	160	<0.5	<2	0.33	<0.5	9	29	27	2.61	10
ZZ101120		0.28	<0.2	1.74	179	<10	150	<0.5	<2	0.41	<0.5	12	34	27	3.00	10
ZZ101121		0.28	<0.2	1.45	69	<10	110	<0.5	<2	0.28	<0.5	8	29	22	2.57	10
ZZ101122		0.28	<0.2	2.15	120	<10	210	<0.5	<2	0.35	<0.5	15	37	32	3.65	10
ZZ101123		0.24	<0.2	1.41	35	<10	120	<0.5	<2	0.47	<0.5	10	38	33	2.63	10
ZZ101124		0.30	0.2	1.74	117	<10	190	<0.5	<2	0.43	<0.5	13	33	28	3.12	10
ZZ101125		0.31	<0.2	2.20	130	<10	180	<0.5	<2	0.42	<0.5	15	42	26	4.02	10
ZZ101126		0.34	0.6	1.81	277	<10	190	0.6	<2	0.63	0.7	16	34	31	4.33	10
ZZ101127		0.28	0.2	1.51	24	<10	170	<0.5	<2	0.52	<0.5	12	35	23	2.65	10
ZZ101128		0.37	<0.2	2.16	19	<10	270	<0.5	<2	0.84	<0.5	12	28	18	3.75	10
ZZ101129		0.32	0.4	1.97	29	<10	310	<0.5	<2	0.64	<0.5	12	35	25	3.15	10
ZZ101130		0.46	<0.2	2.14	36	<10	300	<0.5	<2	0.53	<0.5	10	34	11	3.41	10
ZZ101131		0.17	0.7	1.53	39	<10	360	<0.5	<2	0.97	0.6	18	24	36	2.31	<10
ZZ101132		0.27	<0.2	2.27	61	<10	250	<0.5	<2	0.44	<0.5	14	43	28	3.44	10



ALS Canada Ltd.  
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Project: KLUANE

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Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20
ZZ101093		<1	0.23	10	0.71	443	1	0.02	17	1010	7	0.09	2	3	41	<20
ZZ101094		<1	0.24	10	0.74	389	1	0.02	18	600	7	0.05	3	3	21	<20
ZZ101095		<1	0.19	10	0.82	600	2	0.02	23	870	14	0.08	2	3	29	<20
ZZ101096		<1	0.04	10	0.51	517	1	0.01	19	930	6	0.06	<2	2	27	<20
ZZ101097		<1	0.31	10	1.15	590	1	0.01	23	1370	6	0.05	<2	4	42	<20
ZZ101098		<1	0.18	10	0.92	496	<1	0.01	24	850	8	0.05	<2	3	29	<20
ZZ101099		<1	0.06	10	0.59	913	2	0.01	20	1280	10	0.11	3	2	32	<20
ZZ101100		<1	0.24	20	0.86	648	1	0.02	19	1670	17	0.09	3	3	65	<20
ZZ101101		<1	0.26	10	0.92	527	<1	0.01	23	970	13	0.06	<2	3	39	<20
ZZ101102		1	0.32	10	0.91	505	1	0.01	19	1600	7	0.07	<2	3	41	<20
ZZ101103		<1	0.38	10	1.12	736	1	0.01	25	1430	9	0.06	2	4	39	<20
ZZ101104		<1	0.23	10	0.85	533	1	0.01	22	1040	5	0.06	<2	3	34	<20
ZZ101105		1	0.51	20	1.09	370	<1	0.01	12	1920	<2	0.17	<2	4	66	<20
ZZ101106		<1	0.28	10	1.04	647	1	0.02	27	1460	11	0.12	3	4	55	<20
ZZ101107		<1	0.12	10	0.52	680	1	0.01	17	1650	6	0.21	2	2	75	<20
ZZ101108		1	0.15	10	0.72	509	1	0.01	23	950	7	0.09	2	3	37	<20
ZZ101109		<1	0.35	10	0.94	585	<1	0.02	26	910	9	0.04	<2	5	33	<20
ZZ101110		<1	0.29	10	0.84	579	1	0.02	20	1300	10	0.09	<2	3	41	<20
ZZ101111		<1	0.21	10	0.67	392	<1	0.02	20	1060	6	0.03	<2	3	30	<20
ZZ101112		1	0.08	10	0.77	338	1	0.01	21	590	5	0.05	<2	3	26	<20
ZZ101113		<1	0.29	10	0.75	423	<1	0.02	14	1070	5	0.06	2	3	39	<20
ZZ101114		<1	0.26	10	0.91	431	<1	0.01	18	910	3	0.04	<2	3	35	<20
ZZ101115		<1	0.48	10	1.12	752	<1	0.02	24	1180	5	0.04	3	5	40	<20
ZZ101116		<1	0.16	10	0.65	516	1	0.03	23	860	6	0.10	<2	3	32	<20
ZZ101117		<1	0.29	10	0.91	519	1	0.03	21	990	10	0.06	<2	4	31	<20
ZZ101118		<1	0.10	10	0.87	435	1	0.02	23	1090	5	0.07	2	3	31	<20
ZZ101119		<1	0.08	10	0.56	343	1	0.01	17	1090	11	0.13	2	2	31	<20
ZZ101120		1	0.20	10	0.73	511	<1	0.01	24	1150	10	0.03	<2	4	25	<20
ZZ101121		<1	0.08	10	0.53	369	1	0.01	17	1100	7	0.11	<2	2	26	<20
ZZ101122		<1	0.19	10	0.91	608	1	0.02	24	1070	7	0.08	<2	4	31	<20
ZZ101123		<1	0.12	10	0.60	360	1	0.02	20	970	10	0.11	2	3	31	<20
ZZ101124		<1	0.18	10	0.76	462	1	0.02	19	900	26	0.09	2	3	33	<20
ZZ101125		1	0.19	10	0.90	712	1	0.01	24	660	27	0.05	2	4	27	<20
ZZ101126		<1	0.17	10	0.93	938	1	0.02	18	790	86	0.11	4	6	58	<20
ZZ101127		<1	0.14	10	0.59	519	1	0.01	17	1660	7	0.13	2	1	41	<20
ZZ101128		<1	0.52	10	1.07	510	<1	0.01	14	2430	7	0.03	<2	4	56	<20
ZZ101129		<1	0.25	20	0.79	580	1	0.02	19	1440	8	0.14	<2	2	63	<20
ZZ101130		<1	0.64	10	0.94	369	<1	0.01	11	1420	5	0.03	<2	4	35	<20
ZZ101131		<1	0.12	20	0.43	1870	2	0.02	16	2410	6	0.25	3	1	83	<20
ZZ101132		<1	0.25	10	0.92	480	1	0.01	25	840	6	0.08	<2	3	38	<20



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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 1016 - 510 W HASTINGS STREET  
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**CERTIFICATE OF ANALYSIS WH15112761**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Au-ICP21
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Au ppm
		0.01	10	10	1	10	2	0.001
ZZ101093		0.17	<10	<10	60	<10	68	0.002
ZZ101094		0.19	<10	<10	64	<10	70	0.008
ZZ101095		0.16	<10	<10	73	<10	90	0.006
ZZ101096		0.06	<10	<10	59	<10	78	0.003
ZZ101097		0.21	<10	<10	95	<10	111	0.005
ZZ101098		0.16	<10	<10	83	<10	92	0.005
ZZ101099		0.07	<10	<10	73	<10	64	0.006
ZZ101100		0.12	<10	<10	69	<10	94	0.006
ZZ101101		0.16	<10	<10	77	<10	97	0.003
ZZ101102		0.16	<10	<10	81	<10	93	0.002
ZZ101103		0.21	<10	<10	90	<10	117	0.007
ZZ101104		0.13	<10	<10	76	<10	84	0.004
ZZ101105		0.22	<10	<10	70	<10	88	0.015
ZZ101106		0.14	<10	<10	79	<10	88	0.013
ZZ101107		0.07	<10	<10	51	<10	47	0.004
ZZ101108		0.11	<10	<10	68	<10	65	0.004
ZZ101109		0.20	<10	<10	72	<10	85	0.012
ZZ101110		0.16	<10	<10	77	<10	75	0.007
ZZ101111		0.14	<10	<10	59	<10	74	0.019
ZZ101112		0.15	<10	<10	76	<10	76	0.003
ZZ101113		0.19	<10	<10	67	<10	72	0.011
ZZ101114		0.17	<10	<10	68	<10	69	0.009
ZZ101115		0.28	<10	<10	84	<10	108	0.007
ZZ101116		0.13	<10	<10	60	<10	87	0.003
ZZ101117		0.22	<10	<10	72	<10	128	0.009
ZZ101118		0.15	<10	<10	64	<10	80	0.005
ZZ101119		0.11	<10	<10	56	<10	75	0.006
ZZ101120		0.15	<10	<10	61	<10	92	0.014
ZZ101121		0.09	<10	<10	52	<10	72	0.003
ZZ101122		0.18	<10	<10	76	<10	104	0.007
ZZ101123		0.13	<10	<10	56	<10	71	0.032
ZZ101124		0.17	<10	<10	63	<10	109	0.006
ZZ101125		0.19	<10	<10	78	<10	118	0.009
ZZ101126		0.12	<10	10	60	<10	174	0.027
ZZ101127		0.07	<10	<10	56	<10	56	0.007
ZZ101128		0.23	<10	<10	82	<10	89	0.011
ZZ101129		0.11	<10	<10	68	<10	76	0.005
ZZ101130		0.24	<10	<10	71	<10	77	0.006
ZZ101131		0.03	<10	<10	51	<10	48	0.010
ZZ101132		0.15	<10	<10	73	<10	91	0.007



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %	ME-ICP41 Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
ZZ101133		0.23	<0.2	2.07	79	<10	220	<0.5	<2	0.42	<0.5	13	42	24	3.39	10
ZZ101134		0.31	<0.2	1.86	40	<10	300	<0.5	<2	0.49	<0.5	14	39	26	3.01	10
ZZ101135		0.31	0.3	2.36	144	<10	280	<0.5	<2	0.45	<0.5	14	44	29	3.38	10
ZZ101136		0.30	0.2	1.60	32	<10	220	<0.5	<2	0.38	<0.5	11	30	22	2.80	10
ZZ101137		0.37	0.2	2.34	349	<10	280	0.5	<2	0.51	0.6	18	53	28	4.50	10
ZZ101138		0.41	0.3	1.75	400	<10	210	<0.5	<2	0.43	<0.5	12	42	37	3.03	10
ZZ101139		0.29	0.2	1.98	178	<10	320	<0.5	<2	0.57	<0.5	14	52	33	3.20	10
ZZ101140		0.34	0.2	2.02	48	<10	240	<0.5	<2	0.36	<0.5	11	40	25	3.28	10
ZZ101141		0.46	<0.2	1.58	57	<10	220	<0.5	<2	0.39	<0.5	12	38	23	2.52	10
ZZ101142		0.30	<0.2	1.92	18	<10	230	<0.5	<2	0.31	<0.5	11	40	25	2.80	10
ZZ101143		0.40	0.2	2.09	30	<10	270	<0.5	<2	0.63	<0.5	13	55	28	3.04	10
ZZ101144		0.26	0.2	2.11	20	<10	290	<0.5	<2	0.56	<0.5	14	62	31	3.09	10
ZZ101145		0.44	0.4	2.28	45	<10	440	<0.5	<2	0.75	<0.5	13	89	41	2.93	10
ZZ101146		0.25	<0.2	1.58	27	<10	270	<0.5	<2	0.69	<0.5	16	42	30	2.19	<10
ZZ101147		0.31	<0.2	2.19	25	<10	240	<0.5	<2	0.77	<0.5	12	41	24	2.66	10
ZZ101148		0.39	<0.2	2.20	51	<10	270	<0.5	<2	0.58	<0.5	12	48	27	2.84	10
ZZ101149		0.35	<0.2	1.87	32	<10	230	<0.5	<2	0.57	<0.5	11	42	22	2.66	10
ZZ101150		0.27	0.2	2.36	38	<10	260	<0.5	<2	1.25	<0.5	15	44	31	2.51	10
ZZ101151		0.27	<0.2	1.15	17	<10	50	<0.5	<2	0.21	<0.5	5	24	22	2.00	<10
ZZ101152		0.39	<0.2	2.31	37	<10	210	<0.5	<2	0.52	<0.5	12	37	26	2.65	10
ZZ101153		0.25	<0.2	1.85	25	<10	140	<0.5	<2	0.24	<0.5	10	40	18	2.90	10
ZZ101154		0.38	<0.2	2.08	24	<10	190	<0.5	<2	0.24	<0.5	12	40	18	3.00	10
ZZ101155		0.36	0.2	2.13	32	<10	170	<0.5	<2	0.28	<0.5	11	45	19	3.29	10
ZZ101156		0.30	<0.2	2.06	32	<10	220	<0.5	<2	0.30	<0.5	13	43	25	3.14	10
ZZ101157		0.19	0.2	2.36	38	<10	330	<0.5	<2	0.62	<0.5	16	47	33	3.70	10
ZZ101158		0.26	<0.2	1.80	27	<10	180	<0.5	<2	0.24	<0.5	15	37	28	3.05	10
ZZ101159		0.41	<0.2	2.33	32	<10	210	<0.5	<2	0.28	<0.5	12	41	22	3.16	10
ZZ101160		0.19	0.2	2.43	57	<10	250	<0.5	<2	0.39	<0.5	14	39	26	3.24	10
ZZ101161		0.27	<0.2	2.19	28	<10	290	<0.5	<2	0.36	<0.5	15	44	25	3.53	10
ZZ101162		0.34	<0.2	2.50	27	<10	250	<0.5	<2	0.31	<0.5	17	46	30	3.67	10
ZZ101163		0.23	<0.2	1.84	247	<10	190	<0.5	3	0.36	<0.5	16	43	36	3.56	10
ZZ101164		0.22	0.3	1.89	173	<10	350	<0.5	2	0.72	0.9	14	39	23	3.05	10
ZZ101165		0.30	0.2	2.32	21	<10	390	<0.5	<2	0.46	<0.5	14	44	23	3.13	10
ZZ101166		0.25	0.3	2.22	342	<10	310	<0.5	2	0.51	0.6	15	44	34	3.48	10
ZZ101167		0.36	<0.2	2.31	93	<10	290	<0.5	3	0.39	<0.5	16	64	27	3.68	10
ZZ101168		0.29	<0.2	1.74	126	<10	250	<0.5	3	0.43	<0.5	14	34	29	3.30	10
ZZ101169		0.27	<0.2	2.05	149	<10	180	<0.5	2	0.28	<0.5	13	43	25	3.26	10
ZZ101170		0.36	0.2	2.09	155	<10	240	<0.5	2	0.36	<0.5	15	60	30	3.57	10
ZZ101171		0.33	<0.2	2.00	139	<10	260	<0.5	2	0.38	<0.5	13	53	23	3.14	10
ZZ101172		0.46	<0.2	2.34	45	<10	190	<0.5	3	0.25	<0.5	14	35	24	3.13	10





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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**CERTIFICATE OF ANALYSIS WH15112761**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
ZZ101133		1	0.16	10	0.85	541	1	0.01	24	880	7	0.07	<2	3	35	<20
ZZ101134		<1	0.18	10	0.82	631	1	0.02	19	1130	6	0.08	2	3	39	<20
ZZ101135		<1	0.31	10	0.96	411	1	0.02	19	950	12	0.10	<2	3	60	<20
ZZ101136		<1	0.14	10	0.61	455	1	0.02	14	1010	5	0.08	2	2	37	<20
ZZ101137		<1	0.28	10	1.09	881	1	0.01	24	960	14	0.05	<2	6	40	<20
ZZ101138		1	0.13	10	0.76	428	1	0.02	24	1050	7	0.09	<2	3	37	<20
ZZ101139		1	0.23	10	0.89	576	1	0.02	23	1120	6	0.08	<2	3	44	<20
ZZ101140		<1	0.24	10	0.86	487	1	0.01	20	1100	6	0.06	<2	4	32	<20
ZZ101141		<1	0.19	10	0.73	334	<1	0.02	19	1050	4	0.04	<2	3	38	<20
ZZ101142		1	0.14	10	0.68	260	1	0.02	21	820	5	0.09	2	2	34	<20
ZZ101143		<1	0.35	10	1.00	279	1	0.02	26	1290	5	0.06	<2	4	79	<20
ZZ101144		1	0.23	10	0.95	424	1	0.02	31	1220	4	0.11	<2	2	65	<20
ZZ101145		<1	0.28	10	1.07	295	1	0.02	37	1290	4	0.13	<2	3	86	<20
ZZ101146		<1	0.21	10	0.66	313	1	0.02	23	1160	2	0.15	<2	2	73	<20
ZZ101147		1	0.15	10	0.78	405	1	0.02	26	1370	6	0.10	3	2	67	<20
ZZ101148		<1	0.29	10	0.88	272	1	0.01	22	1440	3	0.04	<2	3	49	<20
ZZ101149		1	0.21	10	0.74	305	1	0.01	21	1020	4	0.07	<2	2	43	<20
ZZ101150		1	0.20	10	0.75	457	1	0.04	20	1250	4	0.13	2	3	105	<20
ZZ101151		1	0.04	10	0.25	108	2	0.01	14	500	4	0.06	<2	1	23	<20
ZZ101152		<1	0.21	10	0.74	303	1	0.02	22	1110	4	0.06	<2	3	49	<20
ZZ101153		<1	0.21	10	0.73	279	1	0.01	21	390	5	0.03	<2	3	23	<20
ZZ101154		<1	0.25	10	0.83	307	1	0.01	18	450	2	0.04	2	3	20	<20
ZZ101155		1	0.25	10	0.89	326	1	0.01	18	560	6	0.03	<2	3	19	<20
ZZ101156		<1	0.23	10	0.85	432	1	0.02	20	880	6	0.08	<2	3	27	<20
ZZ101157		1	0.13	10	0.88	750	2	0.02	26	1450	9	0.14	<2	3	48	<20
ZZ101158		<1	0.09	10	0.63	1125	2	0.01	19	830	7	0.08	2	2	25	<20
ZZ101159		<1	0.15	10	0.84	334	1	0.01	21	470	6	0.04	<2	3	24	<20
ZZ101160		<1	0.21	10	0.89	435	1	0.02	20	910	7	0.07	<2	3	32	<20
ZZ101161		<1	0.27	10	0.94	500	1	0.02	21	720	6	0.05	<2	3	30	<20
ZZ101162		<1	0.12	10	0.89	814	1	0.01	26	1010	8	0.08	2	2	34	<20
ZZ101163		<1	0.09	10	0.80	607	3	0.01	23	1020	28	0.11	<2	2	30	<20
ZZ101164		<1	0.24	10	0.87	718	<1	0.02	17	940	16	0.09	2	3	53	<20
ZZ101165		<1	0.28	10	0.92	451	1	0.04	20	1230	4	0.07	<2	3	37	<20
ZZ101166		<1	0.20	10	0.91	746	1	0.02	21	1170	10	0.10	<2	3	45	<20
ZZ101167		<1	0.30	10	1.18	538	<1	0.02	30	900	7	0.04	<2	5	32	<20
ZZ101168		<1	0.23	10	0.72	619	1	0.02	18	1000	5	0.07	<2	3	33	<20
ZZ101169		<1	0.29	10	0.80	417	<1	0.01	21	550	7	0.05	<2	3	24	<20
ZZ101170		<1	0.32	10	0.90	547	1	0.01	23	860	11	0.07	<2	4	31	<20
ZZ101171		<1	0.25	10	0.92	321	<1	0.02	20	500	4	0.03	<2	4	31	<20
ZZ101172		<1	0.30	10	0.68	474	1	0.01	19	710	5	0.07	<2	4	23	<20



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Au-ICP21
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Au ppm
		0.01	10	10	1	10	2	0.001
ZZ101133		0.15	<10	<10	72	<10	86	0.018
ZZ101134		0.14	<10	<10	62	<10	77	0.011
ZZ101135		0.16	<10	<10	76	<10	93	0.024
ZZ101136		0.12	<10	<10	63	<10	65	0.004
ZZ101137		0.16	<10	<10	80	<10	153	0.035
ZZ101138		0.10	<10	<10	61	<10	79	0.040
ZZ101139		0.18	<10	<10	67	<10	85	0.018
ZZ101140		0.17	<10	<10	67	<10	77	0.007
ZZ101141		0.14	<10	<10	59	<10	57	0.019
ZZ101142		0.12	<10	<10	63	<10	53	0.002
ZZ101143		0.18	<10	<10	69	<10	82	0.014
ZZ101144		0.13	<10	<10	71	<10	67	0.005
ZZ101145		0.12	<10	<10	77	<10	68	0.016
ZZ101146		0.09	<10	<10	50	<10	48	0.008
ZZ101147		0.08	<10	<10	58	<10	71	0.004
ZZ101148		0.18	<10	<10	63	<10	61	0.008
ZZ101149		0.10	<10	<10	60	<10	64	0.004
ZZ101150		0.10	<10	<10	67	<10	68	0.024
ZZ101151		0.07	<10	<10	49	<10	34	0.004
ZZ101152		0.12	<10	<10	62	<10	56	0.006
ZZ101153		0.15	<10	<10	68	<10	69	0.006
ZZ101154		0.20	<10	<10	66	<10	62	0.009
ZZ101155		0.22	<10	<10	73	<10	78	0.005
ZZ101156		0.17	<10	<10	69	<10	67	0.005
ZZ101157		0.11	<10	<10	76	<10	85	0.006
ZZ101158		0.09	<10	<10	69	<10	64	0.007
ZZ101159		0.17	<10	<10	73	<10	64	0.004
ZZ101160		0.17	<10	<10	72	<10	75	0.021
ZZ101161		0.21	<10	<10	77	<10	78	0.003
ZZ101162		0.11	<10	<10	75	<10	88	0.003
ZZ101163		0.11	<10	<10	74	<10	87	0.053
ZZ101164		0.17	<10	<10	65	<10	123	0.013
ZZ101165		0.21	<10	<10	70	<10	75	0.003
ZZ101166		0.16	<10	<10	72	<10	97	0.016
ZZ101167		0.21	<10	<10	84	<10	79	0.005
ZZ101168		0.19	<10	<10	76	<10	75	0.005
ZZ101169		0.19	<10	<10	67	<10	75	0.010
ZZ101170		0.19	<10	<10	75	<10	83	0.010
ZZ101171		0.23	<10	<10	74	<10	62	0.023
ZZ101172		0.19	<10	<10	60	<10	67	0.014



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 North Vancouver BC V7H 0A7  
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Project: KLUANE

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Sample Description	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
ZZ101173	0.32	0.2	2.06	202	<10	240	<0.5	2	0.34	<0.5	16	38	49	3.57	10
ZZ101174	0.33	<0.2	2.22	18	<10	230	<0.5	2	0.34	<0.5	15	40	33	3.56	10
ZZ101175	0.46	<0.2	1.83	25	<10	250	<0.5	2	0.49	<0.5	14	38	27	3.11	10
ZZ101176	0.44	<0.2	2.47	85	<10	330	<0.5	3	0.87	<0.5	18	33	22	5.27	10
ZZ101177	0.25	<0.2	1.52	15	<10	210	<0.5	3	0.56	<0.5	11	30	24	2.84	10
ZZ101178	0.27	<0.2	1.73	16	<10	120	<0.5	2	0.26	<0.5	11	38	26	3.50	10
ZZ101179	0.35	0.3	2.19	46	<10	230	<0.5	3	0.81	0.7	15	43	20	4.38	10
ZZ101180	0.29	0.4	2.78	85	<10	270	0.5	3	1.15	0.9	19	74	30	4.43	10
ZZ101181	0.26	0.5	3.33	82	<10	350	0.9	4	0.83	1.2	111	103	194	6.75	10
ZZ101182	0.34	0.2	2.95	22	<10	250	<0.5	2	1.24	<0.5	20	86	28	4.56	10
ZZ101183	0.28	<0.2	1.92	58	<10	160	<0.5	2	0.46	<0.5	12	38	23	2.58	10
ZZ101184	0.25	0.2	1.49	20	<10	330	<0.5	2	0.64	<0.5	10	35	22	2.34	10
ZZ101185	0.46	0.2	2.97	59	<10	300	<0.5	3	0.43	<0.5	15	63	18	3.56	10
ZZ101186	0.26	<0.2	0.61	2	<10	210	<0.5	2	0.47	0.6	6	9	13	1.15	<10
ZZ101187	0.30	<0.2	2.44	32	<10	220	<0.5	3	0.35	<0.5	16	47	25	3.41	10
ZZ101188	0.45	<0.2	1.95	32	<10	260	<0.5	<2	0.40	<0.5	13	38	21	2.73	10
ZZ101189	0.31	<0.2	2.54	43	<10	240	<0.5	2	0.36	<0.5	15	53	26	4.08	10
ZZ101190	0.32	0.2	2.11	49	<10	310	<0.5	3	0.56	<0.5	12	43	29	3.01	10
ZZ101191	0.35	<0.2	2.40	32	<10	200	<0.5	3	0.29	<0.5	14	56	28	3.60	10
ZZ101192	0.28	<0.2	1.76	18	<10	200	<0.5	3	0.36	<0.5	13	42	25	3.11	10
ZZ101193	0.31	0.2	1.90	59	<10	230	<0.5	2	0.50	<0.5	11	44	30	3.35	10
ZZ101194	0.34	0.2	1.96	58	<10	200	<0.5	2	0.39	<0.5	12	41	27	3.23	10
ZZ101195	0.33	<0.2	1.86	44	<10	220	<0.5	3	0.37	<0.5	12	41	24	2.93	10
ZZ101196	0.26	0.2	2.10	74	<10	330	<0.5	<2	0.56	<0.5	16	53	27	3.46	10
ZZ101197	0.30	<0.2	2.02	214	<10	180	<0.5	3	0.34	<0.5	16	84	33	3.00	10
ZZ101198	0.41	0.2	1.31	24	<10	270	<0.5	2	0.76	<0.5	14	49	31	2.29	<10
ZZ101199	0.30	0.6	1.90	495	<10	320	<0.5	<2	1.00	<0.5	20	54	61	2.68	10
ZZ101200	0.34	<0.2	2.02	19	<10	170	<0.5	<2	0.48	<0.5	15	51	29	3.74	10
ZZ101201	0.32	0.3	3.29	44	<10	240	0.6	<2	1.72	<0.5	17	75	30	4.79	10
ZZ101202	0.34	0.3	2.29	728	<10	160	0.6	<2	1.06	1.2	14	21	25	4.67	10
ZZ101203	0.26	0.3	2.03	394	<10	230	0.5	<2	0.89	<0.5	17	28	28	4.90	10
ZZ101204	0.28	0.3	2.22	229	<10	310	<0.5	<2	1.21	1.8	16	43	55	4.15	10
ZZ101205	0.26	0.3	2.40	272	<10	300	<0.5	<2	0.73	0.6	24	61	61	4.77	10
ZZ101206	0.17	0.2	2.10	49	<10	260	<0.5	<2	0.76	0.6	19	74	35	3.85	10
ZZ101207	0.29	0.2	2.47	43	<10	260	<0.5	<2	0.57	<0.5	21	74	41	4.40	10
ZZ101208	0.25	0.2	2.16	26	<10	250	<0.5	<2	0.70	<0.5	18	71	40	3.77	10
ZZ101209	0.34	<0.2	1.76	33	<10	160	<0.5	<2	0.38	<0.5	12	47	21	2.98	10
ZZ101210	0.26	<0.2	1.76	86	<10	150	<0.5	<2	0.31	<0.5	12	36	21	3.04	10
ZZ101211	0.28	<0.2	2.34	37	<10	150	<0.5	<2	0.28	<0.5	13	40	26	3.36	10
ZZ101212	0.30	0.2	2.18	460	<10	200	<0.5	<2	0.38	0.5	20	67	33	3.99	10



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm	ME-ICP41 K %	ME-ICP41 La ppm	ME-ICP41 Mg %	ME-ICP41 Mn ppm	ME-ICP41 Mo ppm	ME-ICP41 Na %	ME-ICP41 Ni ppm	ME-ICP41 P ppm	ME-ICP41 Pb ppm	ME-ICP41 S %	ME-ICP41 Sb ppm	ME-ICP41 Sc ppm	ME-ICP41 Sr ppm	ME-ICP41 Th ppm
ZZ101173		<1	0.32	10	0.81	572	1	0.02	19	900	7	0.07	2	4	30	<20
ZZ101174		<1	0.14	10	0.84	542	1	0.02	25	1110	5	0.08	<2	3	29	<20
ZZ101175		<1	0.35	10	0.83	485	<1	0.02	21	810	4	0.05	<2	3	35	<20
ZZ101176		<1	0.69	10	1.51	854	<1	0.02	18	2640	10	0.04	<2	5	44	<20
ZZ101177		<1	0.18	10	0.64	456	1	0.02	18	1410	9	0.14	<2	2	48	<20
ZZ101178		<1	0.07	10	0.73	475	1	0.01	22	980	8	0.07	<2	2	27	<20
ZZ101179		<1	0.40	10	1.29	685	<1	0.02	20	2690	15	0.02	3	4	46	<20
ZZ101180		<1	0.38	10	1.78	800	<1	0.03	29	1900	24	0.04	<2	4	115	<20
ZZ101181		<1	0.54	50	1.65	1700	19	0.03	147	1960	8	0.08	<2	9	57	<20
ZZ101182		<1	0.40	10	2.01	686	<1	0.05	35	2000	15	0.03	2	5	173	<20
ZZ101183		<1	0.13	10	0.65	310	1	0.03	21	970	4	0.03	<2	3	41	<20
ZZ101184		<1	0.15	10	0.58	395	1	0.02	17	1260	3	0.13	2	2	62	<20
ZZ101185		<1	0.41	10	1.15	457	<1	0.02	19	1060	7	0.04	<2	6	30	<20
ZZ101186		<1	0.03	10	0.16	638	<1	0.02	6	620	2	0.07	<2	1	43	<20
ZZ101187		<1	0.25	10	0.84	347	1	0.02	29	670	6	0.03	<2	5	26	<20
ZZ101188		<1	0.28	10	0.84	353	<1	0.03	17	870	6	0.06	<2	3	33	<20
ZZ101189		<1	0.24	10	0.92	444	1	0.02	29	640	7	0.03	<2	5	28	<20
ZZ101190		<1	0.31	10	0.87	601	1	0.02	22	1170	4	0.12	<2	3	44	<20
ZZ101191		<1	0.28	10	0.89	400	1	0.01	31	460	5	0.03	<2	5	25	<20
ZZ101192		<1	0.22	10	0.71	548	1	0.01	23	810	5	0.07	2	2	31	<20
ZZ101193		<1	0.23	10	0.69	483	1	0.01	23	790	7	0.08	<2	2	39	<20
ZZ101194		<1	0.20	10	0.72	441	1	0.01	22	560	5	0.04	<2	3	31	<20
ZZ101195		<1	0.31	10	0.78	365	<1	0.02	23	590	4	0.04	2	4	28	<20
ZZ101196		<1	0.12	10	0.85	631	1	0.01	26	760	6	0.07	<2	3	43	<20
ZZ101197		<1	0.24	10	1.02	395	1	0.01	30	670	5	0.05	<2	3	29	<20
ZZ101198		<1	0.12	10	0.56	546	2	0.02	23	1630	5	0.16	3	1	61	<20
ZZ101199		1	0.19	20	0.68	703	3	0.01	27	1480	7	0.19	2	2	75	<20
ZZ101200		<1	0.20	10	1.11	617	1	0.02	24	1410	7	0.05	3	3	50	<20
ZZ101201		<1	0.36	20	1.91	704	<1	0.03	31	2690	12	0.02	<2	5	169	<20
ZZ101202		<1	0.29	20	1.28	847	<1	0.02	14	2870	59	0.04	2	5	93	<20
ZZ101203		<1	0.31	20	1.21	867	<1	0.02	20	2370	10	0.04	6	6	61	<20
ZZ101204		<1	0.36	10	1.70	624	1	0.02	29	1960	13	0.10	<2	4	61	<20
ZZ101205		1	0.50	10	1.27	772	1	0.02	37	1400	14	0.11	2	6	52	<20
ZZ101206		<1	0.42	10	1.15	706	1	0.02	36	1090	9	0.15	<2	5	62	<20
ZZ101207		<1	0.41	10	1.28	735	1	0.02	38	1230	10	0.11	<2	6	51	<20
ZZ101208		<1	0.39	10	1.06	605	2	0.02	38	1030	8	0.13	<2	5	54	<20
ZZ101209		1	0.24	10	0.93	375	1	0.02	22	1010	6	0.03	<2	3	26	<20
ZZ101210		<1	0.24	10	0.79	371	1	0.02	18	870	7	0.05	<2	3	24	<20
ZZ101211		<1	0.16	10	0.85	491	1	0.02	23	850	7	0.08	<2	2	25	<20
ZZ101212		1	0.16	10	1.13	920	2	0.01	36	890	30	0.08	3	4	57	<20



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Au-ICP21
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Au ppm
		0.01	10	10	1	10	2	0.001
ZZ101173		0.19	<10	<10	72	<10	79	0.029
ZZ101174		0.14	<10	<10	74	<10	99	0.007
ZZ101175		0.20	<10	<10	62	<10	81	0.007
ZZ101176		0.28	<10	<10	122	<10	146	0.003
ZZ101177		0.10	<10	<10	65	<10	70	0.002
ZZ101178		0.11	<10	<10	85	<10	87	0.004
ZZ101179		0.22	<10	<10	100	<10	201	0.007
ZZ101180		0.23	<10	<10	93	<10	212	0.041
ZZ101181		0.32	<10	10	138	<10	445	0.012
ZZ101182		0.25	<10	<10	98	<10	144	0.005
ZZ101183		0.12	<10	<10	66	<10	61	0.006
ZZ101184		0.12	<10	<10	57	<10	47	0.004
ZZ101185		0.22	<10	<10	81	<10	93	0.011
ZZ101186		0.05	<10	<10	33	<10	31	<0.001
ZZ101187		0.19	<10	<10	81	<10	68	0.009
ZZ101188		0.18	<10	<10	66	<10	69	0.006
ZZ101189		0.21	<10	<10	91	<10	83	0.011
ZZ101190		0.16	<10	<10	69	<10	74	0.009
ZZ101191		0.19	<10	<10	87	<10	79	0.005
ZZ101192		0.12	<10	<10	68	<10	88	0.003
ZZ101193		0.11	<10	<10	76	<10	75	0.013
ZZ101194		0.15	<10	<10	74	<10	76	0.005
ZZ101195		0.19	<10	<10	67	<10	64	0.011
ZZ101196		0.14	<10	<10	77	<10	85	0.009
ZZ101197		0.14	<10	<10	67	<10	64	0.023
ZZ101198		0.06	<10	<10	53	<10	52	0.003
ZZ101199		0.09	<10	<10	56	<10	54	0.056
ZZ101200		0.17	<10	<10	92	<10	94	0.001
ZZ101201		0.24	<10	<10	102	<10	161	0.007
ZZ101202		0.16	<10	<10	82	<10	255	0.046
ZZ101203		0.20	<10	<10	80	<10	135	0.108
ZZ101204		0.22	<10	<10	83	<10	274	0.011
ZZ101205		0.30	<10	<10	91	<10	194	0.022
ZZ101206		0.22	<10	<10	88	<10	128	0.004
ZZ101207		0.25	<10	<10	100	<10	108	0.007
ZZ101208		0.20	<10	<10	84	<10	87	0.004
ZZ101209		0.19	<10	<10	67	<10	77	0.009
ZZ101210		0.18	<10	<10	65	<10	95	0.007
ZZ101211		0.15	<10	<10	70	<10	80	0.005
ZZ101212		0.13	<10	<10	76	<10	149	0.040



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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Sample Description	Method Analyte Units LOR	WEI-21	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
		Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
ZZ101213		0.35	0.2	2.03	107	<10	200	<0.5	<2	0.49	<0.5	18	68	45	3.57	10
ZZ101214		0.31	0.3	1.87	95	<10	290	<0.5	<2	0.58	<0.5	14	31	28	3.62	10
ZZ101215		0.46	0.2	2.34	48	<10	230	<0.5	<2	0.53	<0.5	16	47	15	3.66	10
ZZ101216		0.35	0.3	2.27	93	<10	230	<0.5	<2	0.45	<0.5	14	46	26	3.65	10
ZZ101217		0.38	<0.2	2.04	76	<10	270	<0.5	<2	0.59	<0.5	13	45	19	3.62	10
ZZ101218		0.36	<0.2	2.46	80	<10	350	<0.5	<2	0.65	<0.5	18	49	25	4.71	10
ZZ101219		0.26	0.2	1.09	61	<10	130	<0.5	<2	0.49	<0.5	15	34	28	2.84	10
ZZ101220		0.25	0.3	1.01	102	<10	160	<0.5	<2	0.60	0.5	7	27	17	2.39	10
ZZ101221		0.38	<0.2	2.45	109	<10	190	<0.5	<2	0.42	<0.5	16	51	30	3.98	10
ZZ101222		0.28	<0.2	1.84	71	<10	200	<0.5	<2	0.85	<0.5	13	58	35	3.43	10
ZZ101223		0.25	0.3	1.81	245	<10	220	<0.5	<2	0.75	<0.5	20	65	49	3.85	10
ZZ101224		0.27	0.2	2.48	224	<10	300	0.5	<2	1.00	0.8	22	68	52	4.51	10
ZZ101225		0.28	<0.2	2.43	159	<10	190	<0.5	<2	0.43	<0.5	16	51	27	4.10	10
ZZ101226		0.31	<0.2	2.18	182	<10	220	<0.5	<2	0.53	0.5	16	49	27	3.86	10
ZZ101227		0.28	0.3	2.45	218	<10	240	0.5	<2	0.83	<0.5	30	79	67	4.84	10
ZZ101228		0.19	1.0	2.00	2180	<10	210	<0.5	<2	0.95	0.8	25	82	52	4.46	10
ZZ101229		0.23	1.0	2.11	891	<10	290	0.5	<2	1.19	1.3	24	56	55	4.63	10
ZZ101230		0.37	<0.2	1.95	51	<10	210	<0.5	<2	0.37	<0.5	11	64	21	2.45	10
ZZ101231		0.37	<0.2	1.88	42	<10	140	<0.5	<2	0.30	<0.5	12	46	30	3.40	10
ZZ101232		0.36	<0.2	2.79	146	<10	410	<0.5	<2	0.74	<0.5	24	168	46	3.43	10
ZZ101233		0.43	<0.2	1.91	110	<10	260	<0.5	<2	0.55	<0.5	14	71	29	3.43	10
ZZ101234		0.20	0.2	1.45	70	<10	300	<0.5	<2	0.57	1.0	12	38	26	2.73	10
ZZ101235		0.37	<0.2	2.08	18	<10	230	<0.5	2	0.37	<0.5	12	39	30	3.10	10
ZZ101236		0.31	0.2	1.90	77	<10	260	<0.5	<2	0.46	<0.5	14	36	24	3.21	10
ZZ101237		0.30	<0.2	2.39	46	<10	280	<0.5	<2	0.40	<0.5	12	39	25	3.46	10
ZZ101238		0.29	0.2	2.03	66	<10	340	<0.5	2	0.67	0.5	16	58	41	3.26	10
ZZ101239		0.28	<0.2	2.21	21	<10	340	<0.5	<2	0.63	<0.5	14	59	33	3.35	10
ZZ101240		0.26	0.2	2.43	81	<10	170	<0.5	<2	0.25	<0.5	17	41	46	4.10	10
ZZ101241		0.37	<0.2	2.56	16	<10	530	<0.5	<2	0.40	<0.5	15	88	22	3.72	10
ZZ101242		0.42	<0.2	2.31	44	<10	340	<0.5	<2	0.43	<0.5	16	39	24	3.65	10
ZZ101243		0.28	<0.2	2.24	45	<10	310	<0.5	<2	0.60	<0.5	21	50	40	3.98	10
ZZ101244		0.23	0.7	2.51	62	<10	350	<0.5	<2	0.57	<0.5	16	53	33	4.13	10
ZZ101245		0.39	0.2	2.08	98	<10	370	<0.5	<2	1.01	<0.5	18	42	27	4.03	10
ZZ101246		0.23	0.2	2.17	234	<10	270	<0.5	2	0.71	<0.5	20	268	24	3.05	<10
ZZ101247		0.33	0.2	2.07	54	<10	210	<0.5	<2	0.50	<0.5	14	32	33	3.74	10
ZZ101248		0.53	<0.2	2.11	184	<10	180	<0.5	<2	0.67	<0.5	16	27	19	4.07	10
ZZ101249		0.35	<0.2	1.09	17	<10	70	<0.5	<2	0.25	<0.5	8	24	30	2.35	<10
ZZ101250		0.39	<0.2	1.58	20	<10	100	<0.5	<2	0.27	<0.5	9	36	27	3.31	10
ZZ101251		0.48	<0.2	2.33	31	<10	190	<0.5	<2	0.68	0.5	15	30	22	4.20	10
ZZ101252		0.32	<0.2	2.47	39	<10	210	<0.5	<2	0.52	<0.5	15	37	24	4.38	10



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

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 LIMITED  
 1016 - 510 W HASTINGS STREET  
 VANCOUVER BC V6B 1L8

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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	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
ZZ101213		1	0.33	10	1.04	524	1	0.03	23	1040	21	0.04	<2	4	43	<20
ZZ101214		<1	0.45	10	0.95	594	1	0.03	16	1380	28	0.03	4	4	35	<20
ZZ101215		<1	0.50	10	1.11	493	<1	0.02	21	1580	13	0.03	<2	6	25	<20
ZZ101216		<1	0.21	10	0.98	333	1	0.01	22	1220	15	0.04	4	5	28	<20
ZZ101217		<1	0.57	10	1.12	472	<1	0.02	21	1470	13	0.02	2	5	31	<20
ZZ101218		<1	1.03	10	1.45	636	<1	0.02	24	2010	11	0.04	<2	5	30	<20
ZZ101219		<1	0.08	10	0.54	551	2	0.01	21	820	8	0.08	<2	2	39	<20
ZZ101220		<1	0.13	10	0.46	209	2	0.01	14	570	23	0.08	<2	2	42	<20
ZZ101221		1	0.22	10	1.06	486	1	0.01	30	890	11	0.05	<2	5	28	<20
ZZ101222		1	0.34	10	0.88	419	1	0.02	37	560	11	0.08	3	5	47	<20
ZZ101223		1	0.30	10	1.03	574	3	0.02	47	610	49	0.08	5	4	54	<20
ZZ101224		1	0.31	20	1.16	874	2	0.02	50	960	29	0.06	4	6	69	<20
ZZ101225		<1	0.25	10	1.07	532	1	0.01	32	660	23	0.04	2	4	31	<20
ZZ101226		<1	0.20	10	0.99	571	1	0.01	27	620	18	0.05	3	4	36	<20
ZZ101227		1	0.42	10	1.42	819	2	0.02	56	870	36	0.08	11	6	63	<20
ZZ101228		<1	0.43	20	1.28	672	1	0.02	53	1010	46	0.18	243	5	85	<20
ZZ101229		<1	0.28	10	1.04	1030	1	0.02	33	860	88	0.08	66	6	93	<20
ZZ101230		<1	0.20	10	0.82	239	<1	0.02	20	570	2	0.03	<2	3	30	<20
ZZ101231		<1	0.11	10	0.74	484	2	0.01	25	560	7	0.05	<2	3	31	<20
ZZ101232		<1	0.49	10	1.75	351	<1	0.05	49	1420	2	0.02	<2	3	70	<20
ZZ101233		<1	0.31	10	0.98	515	1	0.02	27	1100	6	0.07	<2	4	41	<20
ZZ101234		<1	0.23	10	0.64	492	1	0.01	18	1080	6	0.10	<2	3	45	<20
ZZ101235		<1	0.16	10	0.72	460	2	0.02	21	850	9	0.07	<2	3	33	<20
ZZ101236		<1	0.23	10	0.76	677	2	0.01	19	860	8	0.05	<2	3	34	<20
ZZ101237		<1	0.31	10	0.87	468	1	0.01	23	820	7	0.06	<2	3	27	<20
ZZ101238		<1	0.26	20	0.89	528	2	0.03	25	1320	8	0.10	<2	3	50	<20
ZZ101239		<1	0.15	10	0.91	491	1	0.02	25	1160	7	0.09	<2	2	50	<20
ZZ101240		<1	0.11	10	0.88	622	3	0.01	25	790	11	0.09	<2	3	33	<20
ZZ101241		<1	0.35	10	1.24	403	1	0.03	18	700	4	0.04	<2	3	48	<20
ZZ101242		<1	0.27	10	1.07	521	1	0.02	18	660	9	0.04	<2	3	36	<20
ZZ101243		<1	0.22	10	1.01	790	2	0.01	27	1130	9	0.09	<2	3	49	<20
ZZ101244		<1	0.40	10	1.16	598	1	0.03	20	640	9	0.06	2	4	55	<20
ZZ101245		<1	0.40	10	1.07	895	2	0.01	17	810	12	0.09	<2	4	64	<20
ZZ101246		<1	0.10	10	1.63	455	1	0.01	48	660	23	0.07	<2	4	49	<20
ZZ101247		<1	0.23	10	1.03	689	1	0.02	20	1330	8	0.06	<2	3	41	<20
ZZ101248		<1	0.48	10	1.11	622	1	0.02	14	2060	19	0.02	<2	3	40	<20
ZZ101249		<1	0.05	10	0.38	324	1	0.01	13	960	6	0.07	<2	1	22	<20
ZZ101250		<1	0.08	10	0.56	429	2	0.01	20	570	10	0.05	<2	2	32	<20
ZZ101251		<1	0.36	10	1.20	792	1	0.02	18	2470	11	0.03	<2	4	35	<20
ZZ101252		<1	0.20	10	1.22	791	1	0.02	20	1470	9	0.05	<2	4	41	<20

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



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

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 C/O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016 - 510 W HASTINGS STREET  
 VANCOUVER BC V6B 1L8

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**CERTIFICATE OF ANALYSIS WH15112761**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Au-ICP21
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Au ppm
		0.01	10	10	1	10	2	0.001
ZZ101213		0.22	<10	<10	72	<10	106	0.013
ZZ101214		0.25	<10	<10	71	<10	114	0.021
ZZ101215		0.24	<10	<10	78	<10	97	0.009
ZZ101216		0.20	<10	<10	77	<10	84	0.010
ZZ101217		0.26	<10	<10	77	<10	102	0.005
ZZ101218		0.37	<10	<10	104	<10	121	0.003
ZZ101219		0.09	<10	<10	66	<10	59	0.002
ZZ101220		0.13	<10	<10	66	<10	54	0.004
ZZ101221		0.19	<10	<10	87	<10	105	0.005
ZZ101222		0.22	<10	<10	78	<10	84	0.004
ZZ101223		0.20	<10	<10	87	<10	143	0.020
ZZ101224		0.20	<10	<10	92	<10	132	0.008
ZZ101225		0.21	<10	<10	84	<10	115	0.007
ZZ101226		0.18	<10	<10	82	<10	103	0.003
ZZ101227		0.22	<10	<10	95	<10	142	0.014
ZZ101228		0.16	<10	<10	72	<10	150	0.076
ZZ101229		0.16	<10	<10	75	<10	221	0.045
ZZ101230		0.19	<10	<10	61	<10	48	0.003
ZZ101231		0.12	<10	<10	74	<10	75	0.003
ZZ101232		0.22	<10	<10	70	<10	72	0.021
ZZ101233		0.20	<10	<10	75	<10	77	0.007
ZZ101234		0.13	<10	<10	60	<10	76	0.005
ZZ101235		0.14	<10	<10	67	<10	84	0.038
ZZ101236		0.17	<10	<10	68	<10	86	0.002
ZZ101237		0.21	<10	<10	71	<10	85	0.001
ZZ101238		0.16	<10	<10	67	<10	98	0.003
ZZ101239		0.14	<10	<10	77	<10	79	0.002
ZZ101240		0.16	<10	<10	79	<10	111	0.003
ZZ101241		0.36	<10	<10	84	<10	84	0.001
ZZ101242		0.25	<10	<10	80	<10	97	0.002
ZZ101243		0.12	<10	<10	75	<10	110	0.011
ZZ101244		0.29	<10	<10	79	<10	121	0.004
ZZ101245		0.16	<10	<10	83	<10	110	0.003
ZZ101246		0.15	<10	<10	70	<10	93	0.005
ZZ101247		0.17	<10	<10	81	<10	126	0.007
ZZ101248		0.22	<10	<10	85	<10	162	0.033
ZZ101249		0.08	<10	<10	57	<10	63	0.002
ZZ101250		0.12	<10	<10	84	<10	93	0.002
ZZ101251		0.23	<10	<10	88	<10	189	0.014
ZZ101252		0.19	<10	<10	95	<10	154	0.004





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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 1016 - 510 W HASTINGS STREET  
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Sample Description	Method	WEI-21	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	Recvd Wt.	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOR	0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
ZZ101253		0.58	0.2	2.07	21	<10	200	<0.5	<2	0.63	<0.5	13	37	21	3.79	10
ZZ101254		0.39	0.2	1.13	21	<10	70	<0.5	<2	0.29	<0.5	7	21	20	2.39	10
ZZ101255		0.35	0.2	1.72	68	<10	180	<0.5	<2	0.41	0.7	12	38	23	3.19	10
ZZ101256		0.43	<0.2	2.03	17	<10	200	<0.5	<2	0.84	<0.5	12	47	24	3.52	10
ZZ101257		0.38	0.2	1.73	40	<10	180	<0.5	<2	0.51	<0.5	11	34	29	3.28	10
ZZ101258		0.53	0.5	2.68	423	<10	250	0.6	3	1.29	0.5	14	25	38	4.37	10
ZZ101259		0.40	0.5	2.53	257	<10	360	<0.5	<2	1.25	<0.5	25	96	71	4.70	10
ZZ101260		0.49	0.2	2.22	121	<10	240	<0.5	3	0.61	0.5	19	49	43	3.84	10
ZZ101261		0.72	0.6	2.30	126	<10	180	<0.5	<2	9.1	1.2	24	47	67	4.10	10
ZZ101262		0.58	0.2	1.97	89	<10	200	<0.5	2	0.83	0.7	13	40	28	3.81	10
ZZ101263		0.39	<0.2	2.44	63	<10	200	<0.5	<2	0.56	<0.5	16	63	37	4.07	10
ZZ101264		0.35	<0.2	2.41	74	<10	200	<0.5	<2	0.58	<0.5	18	70	35	4.28	10
ZZ101265		0.52	<0.2	2.21	18	<10	190	<0.5	<2	0.60	<0.5	14	66	30	3.43	10
ZZ101266		0.45	0.3	2.16	39	<10	210	<0.5	<2	0.62	<0.5	14	50	35	3.19	10
ZZ101267		0.32	0.2	2.07	28	<10	220	<0.5	<2	0.49	<0.5	11	42	24	3.07	10
ZZ101268		0.50	<0.2	1.97	50	<10	210	<0.5	<2	0.47	<0.5	12	37	20	3.06	10
ZZ101269		0.46	0.2	2.17	79	<10	270	<0.5	<2	0.52	<0.5	13	39	23	3.53	10
ZZ101270		0.41	0.2	1.86	61	<10	210	<0.5	<2	0.38	<0.5	11	30	19	2.94	10
ZZ101271		0.38	<0.2	1.97	107	<10	290	<0.5	<2	0.71	1.2	18	51	32	3.87	10
ZZ101272		0.29	<0.2	2.03	209	<10	170	<0.5	<2	0.33	0.5	14	50	25	3.53	10
ZZ101273		0.39	0.2	3.06	260	<10	460	<0.5	<2	1.39	0.8	22	33	24	5.05	10
ZZ101274		0.33	1.6	1.80	3070	<10	430	<0.5	2	4.41	7.1	22	46	70	4.84	10
ZZ101275		0.32	0.8	2.05	1810	<10	220	0.7	<2	0.70	3.5	24	39	40	5.63	10
ZZ101276		0.38	<0.2	2.51	110	<10	310	<0.5	<2	0.51	<0.5	14	75	22	3.15	10
ZZ101277		0.26	0.2	2.16	35	<10	420	<0.5	<2	0.52	<0.5	19	120	40	3.25	10
ZZ101278		0.33	<0.2	2.40	48	<10	310	<0.5	<2	0.31	0.5	17	43	31	3.79	10
ZZ101279		0.31	<0.2	2.45	119	<10	130	<0.5	<2	0.39	0.7	15	109	28	3.45	10
ZZ101280		0.25	0.2	2.23	396	<10	350	<0.5	<2	0.71	<0.5	14	48	31	3.63	10
ZZ101281		0.39	<0.2	2.18	107	<10	260	<0.5	<2	0.58	<0.5	11	41	24	2.63	10
ZZ101282		0.39	<0.2	2.18	291	<10	290	<0.5	<2	0.79	<0.5	13	40	26	2.66	10
ZZ101283		0.28	<0.2	2.26	101	<10	240	<0.5	<2	0.49	<0.5	13	45	27	3.02	10
ZZ101284		0.34	<0.2	2.52	366	<10	230	<0.5	<2	0.44	<0.5	14	53	31	3.46	10
ZZ101285		0.25	0.2	2.26	91	<10	180	<0.5	<2	0.44	<0.5	17	44	27	3.11	10
ZZ101286		0.41	<0.2	1.66	157	<10	190	<0.5	<2	0.73	<0.5	9	29	21	2.09	10
ZZ101287		0.34	<0.2	1.85	136	<10	190	<0.5	<2	0.55	<0.5	14	38	32	2.48	10
ZZ101288		0.40	<0.2	1.82	105	<10	110	<0.5	<2	0.31	<0.5	8	33	17	2.10	<10
ZZ101289		0.29	<0.2	1.87	101	<10	340	<0.5	<2	0.68	<0.5	10	35	29	2.26	10
ZZ101290		0.55	<0.2	2.32	52	<10	300	<0.5	<2	0.45	<0.5	9	47	21	2.71	10
ZZ101291		0.38	<0.2	1.45	30	<10	180	<0.5	<2	0.43	<0.5	7	33	12	1.82	10
ZZ101292		0.41	<0.2	1.61	44	<10	190	<0.5	<2	0.41	<0.5	7	34	16	1.96	10



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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**CERTIFICATE OF ANALYSIS WH15112761**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	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
ZZ101253		<1	0.24	10	1.13	657	1	0.02	18	1770	10	0.02	<2	3	42	<20
ZZ101254		<1	0.04	10	0.42	312	1	0.01	10	630	6	0.06	<2	1	32	<20
ZZ101255		<1	0.08	10	0.80	656	1	0.01	17	1030	11	0.08	<2	2	42	<20
ZZ101256		<1	0.20	10	1.21	508	1	0.03	20	1670	10	0.06	<2	3	76	<20
ZZ101257		<1	0.13	10	0.88	483	1	0.02	16	1240	7	0.06	<2	3	43	<20
ZZ101258		<1	0.38	10	1.21	740	1	0.02	14	2280	29	0.02	<2	5	109	<20
ZZ101259		<1	0.62	10	1.54	765	1	0.03	57	1190	17	0.19	2	7	79	<20
ZZ101260		<1	0.32	10	1.04	631	1	0.03	32	1460	13	0.05	<2	5	48	<20
ZZ101261		<1	0.19	10	2.15	718	1	0.04	52	1450	27	0.16	<2	3	572	<20
ZZ101262		<1	0.33	20	1.13	628	1	0.02	23	2210	16	0.03	7	5	46	<20
ZZ101263		<1	0.42	10	1.16	680	2	0.03	35	1320	11	0.09	<2	6	45	<20
ZZ101264		<1	0.42	10	1.36	689	1	0.02	36	1370	21	0.04	<2	7	38	<20
ZZ101265		<1	0.30	10	1.06	527	1	0.04	33	980	7	0.04	<2	6	52	<20
ZZ101266		<1	0.20	10	0.91	649	1	0.02	28	1070	13	0.08	<2	4	52	<20
ZZ101267		<1	0.21	10	0.87	446	1	0.02	21	1060	7	0.07	<2	4	40	<20
ZZ101268		<1	0.38	10	0.88	436	<1	0.02	18	1160	6	0.02	<2	4	33	<20
ZZ101269		<1	0.70	10	1.03	449	1	0.02	16	1580	7	0.01	<2	4	29	<20
ZZ101270		<1	0.33	10	0.77	417	<1	0.02	15	990	7	0.03	<2	3	28	<20
ZZ101271		<1	0.62	10	1.08	835	2	0.02	25	1310	17	0.06	<2	5	49	<20
ZZ101272		1	0.18	10	0.92	514	1	0.01	24	520	16	0.05	2	4	29	<20
ZZ101273		1	0.76	10	1.61	807	<1	0.04	15	1150	15	0.05	3	6	121	<20
ZZ101274		<1	0.21	10	1.18	1285	1	0.01	18	1010	99	0.11	16	6	307	<20
ZZ101275		<1	0.24	20	1.19	1315	1	0.01	16	1270	106	0.12	26	6	63	<20
ZZ101276		<1	0.29	10	1.16	359	<1	0.03	19	1070	5	0.03	3	3	41	<20
ZZ101277		<1	0.14	10	1.02	577	1	0.02	32	780	5	0.07	2	3	40	<20
ZZ101278		<1	0.16	10	0.98	591	1	0.01	27	570	5	0.05	<2	3	27	<20
ZZ101279		<1	0.14	10	1.52	420	1	0.02	50	450	6	0.04	<2	3	39	<20
ZZ101280		1	0.58	10	0.95	499	1	0.01	19	1360	7	0.06	<2	3	89	<20
ZZ101281		<1	0.36	10	0.81	301	<1	0.03	21	1240	2	0.01	<2	5	50	<20
ZZ101282		<1	0.41	10	0.83	351	<1	0.05	21	1230	<2	0.04	2	4	68	<20
ZZ101283		<1	0.42	10	0.83	369	1	0.03	27	980	3	0.03	3	4	42	<20
ZZ101284		1	0.49	10	0.95	398	<1	0.02	33	800	4	0.02	2	6	39	<20
ZZ101285		<1	0.31	10	0.82	295	1	0.02	29	660	3	0.04	<2	3	38	<20
ZZ101286		<1	0.28	10	0.62	262	<1	0.03	17	950	<2	0.04	<2	3	53	<20
ZZ101287		<1	0.24	10	0.70	356	<1	0.02	22	690	2	0.03	<2	3	46	<20
ZZ101288		<1	0.26	10	0.59	195	<1	0.02	19	800	2	0.02	3	3	26	<20
ZZ101289		<1	0.24	10	0.63	376	1	0.02	19	910	<2	0.05	<2	3	61	<20
ZZ101290		1	0.27	10	0.78	235	<1	0.02	24	820	<2	0.03	3	4	44	<20
ZZ101291		<1	0.26	10	0.57	213	<1	0.02	15	1100	<2	0.01	2	4	30	<20
ZZ101292		<1	0.25	10	0.57	197	<1	0.02	18	1020	<2	0.01	<2	4	29	<20



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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**CERTIFICATE OF ANALYSIS WH15112761**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Au-ICP21
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Au ppm
		0.01	10	10	1	10	2	0.001
ZZ101253		0.18	<10	<10	85	<10	124	0.001
ZZ101254		0.09	<10	<10	62	<10	57	0.002
ZZ101255		0.11	<10	<10	75	<10	110	0.006
ZZ101256		0.18	<10	<10	81	<10	101	0.015
ZZ101257		0.17	<10	<10	77	<10	85	0.002
ZZ101258		0.27	<10	<10	88	<10	178	0.128
ZZ101259		0.31	<10	<10	95	<10	155	0.008
ZZ101260		0.23	<10	<10	79	<10	144	0.010
ZZ101261		0.13	<10	<10	55	<10	176	0.033
ZZ101262		0.25	<10	<10	77	<10	189	0.007
ZZ101263		0.24	<10	<10	89	<10	107	0.020
ZZ101264		0.29	<10	<10	93	<10	127	0.009
ZZ101265		0.22	<10	<10	79	<10	87	0.002
ZZ101266		0.16	<10	<10	72	<10	95	0.007
ZZ101267		0.17	<10	<10	69	<10	78	0.004
ZZ101268		0.21	<10	<10	67	<10	83	0.004
ZZ101269		0.29	<10	<10	76	<10	112	0.008
ZZ101270		0.20	<10	<10	63	<10	92	0.037
ZZ101271		0.23	<10	<10	78	<10	149	0.018
ZZ101272		0.17	<10	<10	72	<10	110	0.007
ZZ101273		0.40	<10	<10	90	<10	167	0.018
ZZ101274		0.12	<10	<10	68	<10	613	0.123
ZZ101275		0.13	<10	<10	75	<10	523	0.036
ZZ101276		0.27	<10	<10	73	<10	66	0.003
ZZ101277		0.17	<10	<10	83	<10	97	0.001
ZZ101278		0.21	<10	<10	77	<10	101	0.007
ZZ101279		0.15	<10	<10	74	<10	74	0.003
ZZ101280		0.25	<10	<10	76	<10	85	0.008
ZZ101281		0.13	<10	<10	66	<10	53	0.025
ZZ101282		0.13	<10	<10	64	<10	57	0.053
ZZ101283		0.12	<10	<10	72	<10	66	0.071
ZZ101284		0.15	<10	<10	81	<10	70	0.018
ZZ101285		0.12	<10	<10	70	<10	75	0.008
ZZ101286		0.10	<10	<10	48	<10	41	0.014
ZZ101287		0.11	<10	<10	59	<10	51	0.011
ZZ101288		0.09	<10	<10	51	<10	43	0.017
ZZ101289		0.12	<10	<10	59	<10	58	0.016
ZZ101290		0.14	<10	<10	71	<10	58	0.005
ZZ101291		0.12	<10	<10	50	<10	37	0.022
ZZ101292		0.11	<10	<10	52	<10	43	0.007



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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Sample Description	Method Analyte Units LOR	WEI-21	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
		Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
ZZ101293		0.41	0.5	2.06	174	<10	230	0.5	2	0.95	0.6	16	46	29	4.22	10
ZZ101294		0.32	<0.2	1.63	150	<10	280	<0.5	<2	1.42	<0.5	14	44	33	3.25	10
ZZ101295		0.32	<0.2	1.30	27	<10	190	<0.5	<2	0.65	<0.5	10	39	27	3.04	10
ZZ101296		0.33	<0.2	1.49	18	<10	120	<0.5	<2	0.20	<0.5	9	34	32	3.13	10
ZZ101297		0.32	<0.2	2.64	41	<10	140	0.9	<2	0.71	0.9	31	44	41	3.87	10
ZZ101298		0.22	<0.2	0.31	4	<10	40	<0.5	<2	0.19	<0.5	4	7	10	1.14	<10
ZZ101299		0.47	<0.2	1.60	92	<10	190	<0.5	<2	0.44	<0.5	13	29	25	3.23	10
ZZ101300		0.29	0.6	1.71	689	<10	240	<0.5	<2	0.62	1.1	17	64	38	4.27	10
ZZ101301		0.33	<0.2	2.00	52	<10	220	<0.5	<2	0.57	<0.5	14	38	18	3.44	10
ZZ101302		0.42	2.2	1.98	1555	<10	220	<0.5	4	1.03	3.1	23	117	56	5.07	10
ZZ101303		0.31	0.2	2.00	195	<10	260	<0.5	<2	0.57	0.5	18	40	25	3.82	10
ZZ101304		0.30	<0.2	1.94	82	<10	150	0.5	<2	0.90	<0.5	15	100	34	3.67	10
ZZ101305		0.28	<0.2	1.63	42	<10	130	<0.5	<2	0.36	<0.5	9	54	21	2.95	10
ZZ101306		0.21	<0.2	2.51	305	<10	410	<0.5	<2	0.70	<0.5	22	135	44	3.88	10
ZZ101307		0.39	<0.2	2.29	117	<10	260	<0.5	<2	0.46	<0.5	14	64	28	3.12	10
ZZ101308		0.30	0.2	2.14	109	<10	360	<0.5	<2	0.56	<0.5	20	65	34	3.21	10
ZZ101309		0.34	0.3	2.05	86	<10	250	<0.5	2	0.35	<0.5	17	50	28	3.63	10
ZZ101310		0.21	0.3	2.23	179	<10	260	<0.5	<2	0.51	<0.5	13	53	30	3.72	10
ZZ101311		0.24	<0.2	1.65	115	<10	130	<0.5	<2	0.35	<0.5	9	46	17	3.59	10
ZZ101312		0.57	<0.2	2.51	223	<10	260	<0.5	<2	0.59	<0.5	12	49	22	3.49	10
ZZ101313		0.36	0.2	2.03	110	<10	150	<0.5	<2	0.34	<0.5	11	46	22	3.24	10
ZZ101314		0.28	0.2	2.01	156	<10	200	<0.5	<2	0.48	<0.5	14	62	30	3.15	10
ZZ101315		0.21	0.3	2.26	384	<10	350	<0.5	2	0.66	<0.5	16	68	52	3.51	10
ZZ101316		0.20	<0.2	0.77	64	<10	90	<0.5	<2	0.26	<0.5	6	19	18	1.89	<10
ZZ101317		0.44	<0.2	1.90	129	<10	200	<0.5	<2	0.41	<0.5	11	47	21	2.87	10
ZZ101318		0.30	<0.2	2.21	266	<10	240	<0.5	<2	0.44	<0.5	14	44	37	3.36	10
ZZ101319		0.25	<0.2	2.22	149	<10	250	<0.5	<2	0.70	<0.5	14	54	32	3.58	10
ZZ101320		0.27	<0.2	1.97	230	<10	270	<0.5	<2	0.73	<0.5	16	57	31	2.93	10
ZZ101321		0.31	0.2	2.16	356	<10	260	<0.5	<2	0.57	<0.5	12	45	34	3.01	10
ZZ101322		0.33	<0.2	1.57	198	<10	200	<0.5	<2	0.56	<0.5	10	38	21	2.20	10
ZZ101323		0.43	<0.2	1.72	107	<10	330	<0.5	<2	0.59	<0.5	12	58	20	2.58	10
ZZ101324		0.32	<0.2	2.28	128	<10	350	<0.5	2	0.52	<0.5	15	125	26	3.13	10
ZZ101325		0.29	<0.2	1.69	89	<10	310	<0.5	<2	0.63	<0.5	11	90	21	2.46	10
ZZ101326		0.37	<0.2	1.64	79	<10	260	<0.5	<2	0.45	<0.5	10	47	20	2.48	10



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm	ME-ICP41 K %	ME-ICP41 La ppm	ME-ICP41 Mg %	ME-ICP41 Mn ppm	ME-ICP41 Mo ppm	ME-ICP41 Na %	ME-ICP41 Ni ppm	ME-ICP41 P ppm	ME-ICP41 Pb ppm	ME-ICP41 S %	ME-ICP41 Sb ppm	ME-ICP41 Sc ppm	ME-ICP41 Sr ppm	ME-ICP41 Th ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
ZZ101293		<1	0.29	20	1.42	822	<1	0.03	28	1480	111	0.04	<2	7	57	<20
ZZ101294		<1	0.29	10	0.89	625	1	0.02	29	1120	13	0.14	3	4	77	<20
ZZ101295		<1	0.17	10	0.60	332	2	0.02	21	880	8	0.08	5	2	46	<20
ZZ101296		<1	0.04	10	0.46	206	2	0.01	24	730	8	0.07	<2	2	24	<20
ZZ101297		<1	0.11	30	1.82	1555	1	0.02	70	1100	17	0.09	4	3	46	<20
ZZ101298		<1	0.02	<10	0.11	173	<1	0.02	4	540	<2	0.03	<2	<1	15	<20
ZZ101299		1	0.17	10	0.73	571	1	0.01	18	1270	14	0.09	6	2	29	<20
ZZ101300		<1	0.29	10	1.07	776	1	0.02	31	950	87	0.06	10	5	52	<20
ZZ101301		<1	0.29	10	0.96	479	<1	0.02	21	1460	10	0.03	3	4	37	<20
ZZ101302		<1	0.27	10	1.47	1120	1	0.02	47	840	240	0.11	8	6	108	<20
ZZ101303		<1	0.23	10	0.90	913	1	0.01	22	860	16	0.08	3	3	45	<20
ZZ101304		<1	0.27	10	0.97	622	2	0.01	37	980	9	0.08	3	2	63	<20
ZZ101305		<1	0.14	10	0.71	233	1	0.01	24	480	5	0.03	<2	2	24	<20
ZZ101306		<1	0.23	10	1.30	707	2	0.01	43	1060	8	0.05	<2	5	50	<20
ZZ101307		<1	0.39	10	0.93	407	<1	0.02	30	1190	6	0.04	<2	4	32	<20
ZZ101308		<1	0.19	10	0.88	1180	<1	0.02	27	1050	6	0.05	2	4	49	<20
ZZ101309		1	0.09	10	0.76	641	1	0.01	24	570	9	0.02	<2	4	28	<20
ZZ101310		<1	0.12	10	0.80	470	2	0.01	28	610	10	0.05	<2	4	37	<20
ZZ101311		<1	0.32	10	0.80	302	1	0.01	23	440	8	0.03	<2	4	26	<20
ZZ101312		1	0.35	10	0.93	305	<1	0.02	18	1260	7	0.05	<2	4	42	<20
ZZ101313		<1	0.24	10	0.79	270	1	0.01	23	470	7	0.03	<2	4	30	<20
ZZ101314		<1	0.25	10	0.84	494	1	0.01	26	620	8	0.07	2	3	38	<20
ZZ101315		<1	0.37	10	0.96	489	<1	0.02	32	890	8	0.07	2	4	52	<20
ZZ101316		<1	0.09	<10	0.30	136	<1	0.01	10	330	3	0.03	<2	1	23	<20
ZZ101317		<1	0.41	10	0.83	295	<1	0.01	24	910	4	0.02	<2	4	31	<20
ZZ101318		1	0.37	10	0.92	337	1	0.02	24	660	6	0.04	<2	4	41	<20
ZZ101319		<1	0.30	10	1.00	380	1	0.02	34	880	8	0.07	<2	3	55	<20
ZZ101320		<1	0.38	10	0.89	291	<1	0.02	36	1170	4	0.06	2	3	57	<20
ZZ101321		<1	0.43	10	0.90	232	<1	0.03	24	890	5	0.05	<2	4	55	<20
ZZ101322		<1	0.29	10	0.68	206	<1	0.02	17	1410	4	0.04	<2	2	42	<20
ZZ101323		<1	0.51	10	0.91	274	<1	0.03	21	1570	4	0.01	<2	4	41	<20
ZZ101324		<1	0.56	10	1.22	325	<1	0.02	39	800	5	0.03	<2	4	45	<20
ZZ101325		1	0.49	10	0.95	281	<1	0.02	31	1460	3	0.03	<2	3	40	<20
ZZ101326		<1	0.41	10	0.76	318	<1	0.01	18	1020	4	0.03	<2	3	31	<20



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

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

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 Total # Pages: 8 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 9-AUG-2015  
 Account: ROCKHA

Project: KLUANE

**CERTIFICATE OF ANALYSIS WH15112761**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Au-ICP21
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Au ppm
		0.01	10	10	1	10	2	0.001
ZZ101293		0.17	<10	<10	74	<10	158	0.032
ZZ101294		0.15	<10	<10	72	<10	81	0.014
ZZ101295		0.13	<10	<10	81	<10	63	0.005
ZZ101296		0.07	<10	<10	73	<10	73	0.005
ZZ101297		0.07	<10	<10	53	<10	165	0.006
ZZ101298		0.05	<10	<10	36	<10	25	<0.001
ZZ101299		0.13	<10	<10	69	<10	86	0.006
ZZ101300		0.18	<10	<10	67	<10	223	0.276
ZZ101301		0.24	<10	<10	74	<10	103	0.005
ZZ101302		0.16	<10	<10	66	<10	554	0.099
ZZ101303		0.14	<10	<10	79	<10	106	0.009
ZZ101304		0.13	<10	10	67	<10	107	0.002
ZZ101305		0.12	<10	<10	71	<10	62	0.002
ZZ101306		0.19	<10	<10	88	<10	86	0.013
ZZ101307		0.20	<10	<10	68	<10	72	0.005
ZZ101308		0.16	<10	<10	70	<10	70	0.008
ZZ101309		0.15	<10	<10	78	<10	87	0.007
ZZ101310		0.14	<10	<10	83	<10	67	0.008
ZZ101311		0.20	<10	<10	81	<10	78	0.002
ZZ101312		0.23	<10	<10	76	<10	64	0.095
ZZ101313		0.17	<10	<10	72	<10	63	0.005
ZZ101314		0.14	<10	<10	68	<10	63	0.008
ZZ101315		0.17	<10	<10	73	<10	72	0.021
ZZ101316		0.08	<10	<10	52	<10	38	0.003
ZZ101317		0.21	<10	<10	65	<10	55	0.006
ZZ101318		0.16	<10	<10	74	<10	62	0.013
ZZ101319		0.16	<10	<10	80	<10	75	0.006
ZZ101320		0.15	<10	<10	68	<10	54	0.009
ZZ101321		0.16	<10	<10	68	<10	51	0.028
ZZ101322		0.12	<10	<10	50	<10	43	0.012
ZZ101323		0.20	<10	<10	61	<10	50	0.018
ZZ101324		0.23	<10	<10	73	<10	59	0.014
ZZ101325		0.21	<10	<10	57	<10	51	0.015
ZZ101326		0.19	<10	<10	56	<10	51	0.016



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Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 9-AUG-2015  
 Account: ROCKHA

Project: KLUANE

**CERTIFICATE OF ANALYSIS WH15112761**

**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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**Rock Sample Descriptions**

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Property: Kluane

Sample Number: K283829 UTM: 357428 mE Nad83, Zone 8  
Elevation: 1 m UTM: 6790182 mN

Comments: Float grab of white coarse grained to opaline quartz, with rusty-brown splotchy weathering, sparse limonite filling cavities, and laths of tourmaline and muscovite. No visible sulphides. Veins cut through diorite in subcrop and are up to 40 cm thick.

---

Sample Number: K283830 UTM: 357404 mE Nad83, Zone 8  
Elevation: 1450 m UTM: 6790098 mN

Comments: Subcrop sample of dark grey foliated quartz-biotite schist breccia, with cross-cutting quartz veinlets and yellow-green scorodite staining.

---

Sample Number: K283831 UTM: 357315 mE Nad83, Zone 8  
Elevation: 1536 m UTM: 6790289 mN

Comments: Float grab of crumbly salt-and-pepper, punky weathering medium grained hornblende-biotite diorite, with disseminated limonite throughout, trace disseminated very fine grained pyrite, and sparse blebs of very fine grained chlorite.

---

Sample Number: K283832 UTM: 357219 mE Nad83, Zone 8  
Elevation: 1605 m UTM: 6790220 mN

Comments: Float grab of tan to white bull quartz.

---

Sample Number: K283833 UTM: 357187 mE Nad83, Zone 8  
Elevation: 1631 m UTM: 6790189 mN

Comments: Float grab of tan to orange weathering banded apilite? With thin dark and limonitic wisps, disseminated medium to coarse grained pyrite, limonite, and rare casts of medium grained tetrahedrite. Very abundant in a 20 x 20 metre area.

---

Sample Number: K283834 UTM: 357191 mE Nad83, Zone 8  
Elevation: 1628 m UTM: 6790182 mN

Comments: Float grab of rock with the same lithology as sample K283833, but without sulphide mineralization.,

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**Rock Sample Descriptions**

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Property: Kluane

Sample Number: K283835 UTM: 356737 mE Nad83, Zone 8

Elevation: 1 m UTM: 6790834 mN

Comments: Outcrop sample of orange to brown weathering, pocky and limonitic quartz vein with yellow-green scorodite staining and 1% disseminated chalcopyrite.

---

Sample Number: K283836 UTM: 356737 mE Nad83, Zone 8

Elevation: 1 m UTM: 6790834 mN

Comments: Outcrop sample of brick-red weathering, silicified diorite?, with disseminated limonite and <1% chalcopyrite throughout, and thin wisps of black manganese?

---

Sample Number: K283837 UTM: 356737 mE Nad83, Zone 8

Elevation: 1309 m UTM: 6790834 mN

Comments: Outcrop sample of orange to brown weathering banded quartz vein and selvage, with interstitial fine grained chlorite, <1% fine grained chalcopyrite, 1% medium to coarse grained galena and ~15% fine to medium grained arsenopyrite.

---

Sample Number: K283838 UTM: 356737 mE Nad83, Zone 8

Elevation: 1307 m UTM: 6790834 mN

Comments: Outcrop sample of yellow-green scorodite stained banded quartz vein and selvage, with 1% medium to coarse grained galena and bands of fine to medium grained arsenopyrite comprising 20% of the sample.

---

Sample Number: K283839 UTM: 357370 mE Nad83, Zone 8

Elevation: 1505 m UTM: 6790364 mN

Comments: Subcrop grab of tan to orange stockwork quartz-diorite breccia, with coarse grains of biotite that weather rusty with trace very fine grained pyrite at the margins of the grains. Removed from a car-sized boulder.

---

Sample Number: K283840 UTM: 357251 mE Nad83, Zone 8

Elevation: 1 m UTM: 6790695 mN

Comments: Outcrop grab of pale green, waxy, banded and brecciated marble(?) with yellow-green scorodite staining on fracture surfaces, dark wisps and bands of fine grained arsenopyrite comprising 3% of the rock, and trace pyrite. Collected from historical trench A+02.

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**Rock Sample Descriptions**

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Property: Kluane

Sample Number: K283841 UTM: 357256 mE Nad83, Zone 8  
Elevation: 1581 m UTM: 6790691 mN

Comments: Outcrop grab of dark maroon-brown weathering, oxidized, limonitic, clay altered, pale green marble(?), with <1% fine grained pyrite and arsenopyrite as bands along vein selvages. Collected from historical trench A+02.

---

Sample Number: K283842 UTM: 357212 mE Nad83, Zone 8  
Elevation: 1589 m UTM: 6790768 mN

Comments: Subcrop grab of weathering orange and limonitic, pale green chlorite-altered quartz-carbonate, with trace arsenopyrite and pyrite. Removed from a shallow pit.

---

Sample Number: K283843 UTM: 356917 mE Nad83, Zone 8  
Elevation: 1761 m UTM: 6791255 mN

Comments: Composite grab of punky rusty-brown weathering, quartz-carbonate vein with 1% interstitial fine to coarse grained pyrite throughout and narrow wisps of limonite and sericite on selvages. Collected near the top of a 2 x 20 metre float train.

---

Sample Number: K283844 UTM: 357035 mE Nad83, Zone 8  
Elevation: 1597 m UTM: 6791955 mN

Comments: Float grab of orange weathering, blocky white bull quartz with a rusty tarnish, sparse manganese dendrites on fracture surfaces and interstitial medium grained muscovite. Removed from a 20 x 20 x 20 cm block and sourcing from a gully.

---

Sample Number: K283845 UTM: 357019 mE Nad83, Zone 8  
Elevation: 1606 m UTM: 6791983 mN

Comments: Float grab of brown weathering, pale white-green sparry/radiating quartz-carbonate. Sourcing from a gully.

---

Sample Number: K283846 UTM: 357002 mE Nad83, Zone 8  
Elevation: 1613 m UTM: 6791955 mN

Comments: Float grab of dark orange-brown and rusty, strongly altered quartz-biotite schist, with a 'cooked' appearance. This rock is much heavier than the surrounding rocks.

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**Rock Sample Descriptions**Property: Kluane

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Sample Number: K283847 UTM: 354806 mE Nad83, Zone 8  
Elevation: 1780 m UTM: 6790895 mN

Comments: Float grab of limonitic and brown weathering, clay-altered quartz vein and diorite selvage with 5% very fine grained arsenopyrite as bands, and thin black-brown wisps of manganese(?). No rep, and rock on site is not representative. Collected in the material removed from a 1.3 metre deep trench.

---

Sample Number: K283848 UTM: 354807 mE Nad83, Zone 8  
Elevation: 1782 m UTM: 6790897 mN

Comments: Float grab of orange weathering bull quartz, with a rusty tarnish and sparse disseminated very fine grained limonite throughout. Collected from the material removed from a 1.3 metre deep trench.

---

Sample Number: K283849 UTM: 354806 mE Nad83, Zone 8  
Elevation: 1777 m UTM: 6790890 mN

Comments: Float grab of orange weathering banded chalcedonic quartz, with limonite on fracture surfaces. Collected from the material removed from a 1.3 metre deep trench.

---

Sample Number: N832451 UTM: 354888 mE Nad83, Zone 8  
Elevation: 1797 m UTM: 6790735 mN

Comments: Float grab of limonitic and brown weathering, pale green chlorite and clay altered fault breccia, with angular white clasts of quartz. Sample on site is not representative. Collected in the material removed from a 0.8 metre deep trench.

---

Sample Number: N832452 UTM: 356457 mE Nad83, Zone 8  
Elevation: 2015 m UTM: 6790957 mN

Comments: Float grab of limonitic, punky and intensely yellow-green scorodite stained quartz vein breccia with disseminated limonitic pits throughout and trace medium grained pyrite. Removed from a shallow pit.

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Sample Number: N832453 UTM: 357006 mE Nad83, Zone 8  
Elevation: 1623 m UTM: 6791970 mN

Comments: Float grab of orange weathering bull quartz.

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**Rock Sample Descriptions**Property: Kluane

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Sample Number: N832454 UTM: 356913 mE Nad83, Zone 8  
Elevation: 1669 m UTM: 6791938 mN

Comments: Composite sample of earthy, punky dark brown oxide (vein selvage?) removed from a shallow pit in a prominent linear.

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Sample Number: N832455 UTM: 356903 mE Nad83, Zone 8  
Elevation: 1671 m UTM: 6791937 mN

Comments: Outcrop grab of tan weathering, pale green marble.

---

Sample Number: N832456 UTM: 356453 mE Nad83, Zone 8  
Elevation: 2016 m UTM: 6790959 mN

Comments: Float grab of dark chocolate brown to orange, punky and limonitic oxide of quartz vein with ~2% fine to coarse grained pyrite as clots and bands. Removed from a shallow pit.

---

Sample Number: N832457 UTM: 356486 mE Nad83, Zone 8  
Elevation: 2014 m UTM: 6790897 mN

Comments: Composite sample of brown weathering, blue-grey banded quartz with sparse fine grained pyrite as clots and in thin limonitic wisps. Collected in the material removed from a historical pit.

---

Sample Number: N832458 UTM: 356478 mE Nad83, Zone 8  
Elevation: 2015 m UTM: 6790955 mN

Comments: Composite sample of punky, rusty-brown weathering, yellow-green scorodite stained quartz-diorite selvage with sparse fine to medium grained pyrite.

---

Sample Number: N832459 UTM: 355778 mE Nad83, Zone 8  
Elevation: 2030 m UTM: 6791445 mN

Comments: Composite sample of punky yellow-green, scorodite stained, banded quartz with 1% arsenopyrite as bands and clots. No rep. Collected from a subtle linear.

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**Rock Sample Descriptions**

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Property: Kluane

Sample Number: N832460 UTM: 355528 mE Nad83, Zone 8  
Elevation: 1955 m UTM: 6791662 mN

Comments: Composite sample of punky yellow-green scorodite stained fragments of quartz vein selvage?

---

Sample Number: N832461 UTM: 357258 mE Nad83, Zone 8  
Elevation: 1577 m UTM: 6790692 mN

Comments: Float grab of brown weathering, dark grey hornfels with trace very fine grained pyrrhotite(?). Rock is weakly magnetic. Collected next to historical trench A+02.

---

Sample Number: N832462 UTM: 357240 mE Nad83, Zone 8  
Elevation: 1588 m UTM: 6790752 mN

Comments: Float grab of a rock with the same lithology as sample K283840. No rep.

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Sample Number: N832463 UTM: 356878 mE Nad83, Zone 8  
Elevation: 1842 m UTM: 6790843 mN

Comments: Outcrop sample of orange weathering apilite with disseminated medium to coarse grained pyrite, and limonitic casts of pyrite throughout.

---

Sample Number: N832464 UTM: 356742 mE Nad83, Zone 8  
Elevation: 1932 m UTM: 6790819 mN

Comments: Outcrop sample of orange-brown weathering and yellow-green scorodite stained, drusy quartz vein and selvage with 10% massive galena, 10% fine grained arsenopyrite, and <1% pyrite as bands.

---

Sample Number: N832465 UTM: 356653 mE Nad83, Zone 8  
Elevation: 1973 m UTM: 6791100 mN

Comments: 10cm chip sample across a mineralized quartz vein, with a strike and dip of 175/69 W, with the same lithology as sample N832464. No rep.

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**Rock Sample Descriptions**Property: Kluane

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Sample Number: N832466 UTM: 356652 mE Nad83, Zone 8  
Elevation: 1972 m UTM: 6791102 mN

Comments: 20cm chip sample across the west selvage of the mineralized quartz vein N832465, consisting of orange weathering, silica flooded, biotite quartz diorite. No rep.

---

Sample Number: N832467 UTM: 356654 mE Nad83, Zone 8  
Elevation: 1975 m UTM: 6791099 mN

Comments: 20cm chip sample across the east selvage of the mineralized quartz vein N832465, with the same lithology as sample N832466. No rep.

---

Sample Number: N832468 UTM: 356736 mE Nad83, Zone 8  
Elevation: 1918 m UTM: 6790861 mN

Comments: Subcrop grab of orange weathering and with a rusty tarnish, banded quartz vein with 5% fine to medium grained pyrite, and 3% fine grained arsenopyrite occurring as thin bands.

---

Sample Number: N832469 UTM: 357095 mE Nad83, Zone 8  
Elevation: 1664 m UTM: 6791183 mN

Comments: Outcrop sample of rusty orange-brown weathering, quartz-biotite schist with a dark 'cooked' appearance.

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Statement of Expenditures  
274 Kluane property Mineral Claims  
December 8, 2015

Labour

D. Eaton (geologist) 14 hours April to November at \$120/hr	\$ 1,764.00
H. Burrell (geologist) 27 hours April to November at \$106/hr	3,005.10
J. Morton (geologist) 151 hours April to November at \$82/hr	13,001.10
A. Mitchell (geologist) 8 hours April to November at \$79/hr	663.60
R. Burke (field assistant) 56 hours April to November at \$49/hr	2,881.20
M. Kulla (field assistant) 56 hours April to November at \$43/hr	2,528.40
J. Mariacher (office) 8 3/4 hours April to November at \$90/hr	826.88
L. Corbett (expedite) 5 hours April to November 18 at \$81/hr	425.25
L. Smith (expedite) 27 hours April to November at \$69/hr	1,956.15
S. Newman (office) 4 1/2 hours April to November at \$64/hr	<u>302.40</u>
	27,354.08

Expenses (including management)

Field room and board – 23 mandays @ \$180/manday	4,678.20
Capital Helicopters – 5.7 hours Bell 206B at \$1,050/hr plus fuel	7,449.22
ALS Chemex	7,931.12
Truck rental and fuel	<u>406.79</u>
	20,465.33

Total \$47,819.41

314 samples at \$47,819.41 = \$152.29/sample