

ASSESSMENT REPORT
Sampling at the
Red Ridge Property

NTS: 105D06
Whitehorse Mining District, Yukon Territory, Canada

Property Centre:
60°21'39" N, 135°05'36" W
UTM (NAD 83): 494850, 6691610, Zone 8

Work Applied to CLAIMS:

Claim Name	Tenure Number	Claim Name	Tenure Number
AZURITE 1	YC29966	RED 39	YD20982
AZURITE 2	YC29986	RED 40 - 41	YE32598 - YE32599
AZURITE 3 - 4	YC40121 - YC40122	RED 42F - 43F	YE32596 - YE32597
AZURITE 5 - 7	YC40004 - YC40006	RED 44 - 45	YE32594 - YE32595
BB 1 - 2	YC29967 - YC29968	RED 46 - 47	YE32592 - YE32593
BB 3 - 4	YC40296 - YC40297	RED 48F - 49F	YE32590 - YE32591
LA 1 - 8	YC39261 - YC39268	UNION 1	YC47001
LA 9 - 11	YC40007 - YC40009	WG 1 - 2	YC40123 - YC40124
RED 2 - 30	YD80774 - YD80802	WS 1 - 4	YC40116 - YC40119
RED 31 - 33	YD81404 - YD81406	WS 5	YC40125

WORK PERFORMED:
July 15th to 24th, 2017

Prepared for
Apex Resources Inc

Prepared by:



ASSESSMENT REPORT
Mapping and Geochemical Sampling at the Red Ridge Property

Effective Date:
March 8, 2018

Prepared for:
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EXECUTIVE SUMMARY

In 2017 Apex Resources Inc (Apex) contracted Aurora Geosciences Ltd. (Aurora) of Whitehorse, Yukon, to conduct a surface exploration program of geological mapping, rock and grid soil sampling on the Red Ridge Property. The program was conducted by a three-person crew from July 15th and 24th, 2017.

The Red Ridge Property is located in southwestern Yukon, within NTS map sheet 105D06, about 40 km south of Whitehorse and 30 km northwest of Carcross, Yukon. The property comprises 73 contiguous Yukon quartz claims covering 1,352 hectares. Apex has entered into an option agreement to acquire a 100% interest in the property by payment of CDN\$150,000, issuance of 500,000 shares and completion of \$430,000 in work commitments over four years.

The property is located towards the west margin of the Whitehorse Trough, a northern extension of the Stikinia Terrane, near the eastern margin of the Coast Plutonic Complex. The property is located about 25 km northeast of the Mount Skukum Volcanic Complex, which hosts the past-producing Mount Skukum and Skukum Creek mines. Mineralization at these is associated with Paleocene to Eocene dykes and apophyses emanating from the Mount Skukum complex.

The eastern property area is underlain by a Late Triassic Stikine Suite granodioritic stock. An elongate unit of Late Cretaceous Prospector Mountain Suite granodiorite extends WSW from the western boundary of the stock. This latter unit is bounded by Late Cretaceous Carmacks Group volcanics to the north, and Lower Jurassic Laberge Group sediments to the south.

Previous exploration led to discovery of several mineralized zones, most notably the East, Vance, Don, Saddle, and Miller zones. These are typically polymetallic lead-zinc-silver-gold-bearing quartz veins, characterized by very high silver value and fairly moderate gold values, with a few higher-grade gold values. Diamond drilling in 1988 returned favourable results from the Saddle and Miller zones. Plotting of gold values from a 1988 soil sampling program revealed several NNW-SSE trending linear anomalies, likely marking property-scale mineralized structural lineaments, part of a district-scale lineation.

Geological mapping and due-diligence style rock sampling in 2017 confirmed the presence of lead-zinc-silver-gold +/- copper mineralization at the East, Don and Saddle zones, but failed to confirm metal values from surface sampling at the Miller Zone. The 2017 results, combined with 1988 rock and soil values, suggest the Saddle Zone occurs proximal to one of the NNW-SSE trending structures, rendering this as a prime target for further exploration. The Miller Zone, despite low 2017 metal values, is also prospective, due to its location along a similar soil anomaly and potential structure.

Soil sampling in 2017 focused on downslope extension of both flanks of the Red Ridge in the western property area. Sampling revealed two proximal high gold-in-soil values west of the Miller Zone, indicating a newly identified target. A coincident copper-molybdenum anomaly of greater aerial extent also occurs along the south flank downslope of the most pronounced limonitic staining along the Red Ridge. This gossan is interpreted as hornfelsed sediments overlying the Prospector Mountain Suite intrusion, potentially mixed with limonitic intrusive rocks.

The Casino porphyry deposit is centered on a Prospector Mountain Suite intrusion, indicating this intrusive suite is prospective for similar mineralization elsewhere. The copper-molybdenum anomaly indicates potential for a porphyry-style mineralized setting in the western property area. Lead-zinc-silver veins commonly occur outbound from porphyry centres. Local high-grade gold values may represent more distal “bonanza” veins, although here these are also associated with high lead values.

Recommendations for further exploration are threefold: an airborne magnetic/ DIGHEM and possible radiometric survey, combined with a LIDAR topographic survey; a Phase 1 program of surface exploration focusing on further rock sampling, grid soil sampling, and geological mapping focusing on alteration assemblages and determination of mineralized settings; and a Phase 2 diamond drilling program of 1,200 metres in eight holes. The Phase 2 targets include the potential extensions of the Saddle Zone along a NNW-SSE trending lineament, the Miller Zone, the newly identified gold-in-soil anomaly, and the eastern Triassic intrusion.

The airborne survey may be done in early to mid-May; Phase 1 may be done from mid-June to mid-July, and Phase 2 from late July onward. The program would be based from an existing campsite in the south-central property area, and would be helicopter-supported, staged from a pull-out along the Annie Lake Road.

1 INTRODUCTION

Apex Resources Inc. (Apex) contracted Aurora Geosciences Ltd. (Aurora) to conduct geological mapping, lithogeochemical sampling and soil geochemical sampling on the Red Ridge property in southwest Yukon. The property comprises several silver-gold ±copper-lead-zinc-molybdenum targets. Work was conducted by a crew of two geologists and a geotechnician between July 15th and 24th, 2017.

A temporary camp consisting of wall tents was erected in a clearing at the base of the Red Ridge. The camp was supported by helicopter from Whitehorse and the work area was accessible through a network of All-Terrain Vehicle (ATV) roads from previous exploration activities. All-terrain vehicles were used for transport to the property; sampling and mapping was then conducted on foot.

The Red Ridge property is located 40 kilometres south of Whitehorse and is road accessible and comprises 73 quartz mining claims covering 1,352 hectares. “Apex” has a right to option 100% of the property.

All geographic locations in this report are relative to North American Datum 1983. Angles are expressed relative to true north unless otherwise stated. Non-geodetic coordinates are expressed in Universal Transverse Mercator Zone 8N metric coordinates. All measurements are expressed in the metric system unless they are measurements quoted from historic reports expressed in other units of measure. All metric units conform to the SI system using standard abbreviations codified in the United States National Institute of Standards and Technology (NIST) publication NIST SP 330¹. Chemical elements and compounds are abbreviated using standard International Union of Pure and Applied Chemistry² abbreviations. Other abbreviations are defined at point of first use.

1.1 Terms, Definitions and Units

All costs contained in this report are in Canadian dollars (CDN\$). Distances are reported in centimetres (cm), metres (m) and km (kilometres). The term “GPS” refers to “Global Positioning System” with coordinates reported in UTM NAD 83 projection, Zone 8. “Minfile Occurrence” refers to documented mineral occurrences on file with the Yukon Minfile, Department of Energy, Mines and Resources, Government of Yukon.

A “Grab Sample” consists of a single piece of rock to be analyzed. A “Composite Grab Sample” is similar to a grab, but comprises multiple pieces of similar rock material, at times reported over a specific distance. A “chip sample” consists of a contiguously sampled section, or “chip”, of rock, to obtain a more accurate representation of grade over width. A “float” sample is a rock sample that has been transported from its original bedrock source. “Mag” and “EM” refer to “Magnetic” and “Electromagnetic” methods referencing geophysical surveying. “IP” is an abbreviation for Induced Polarization geophysical surveying.

The term “ppm” refers to parts per million, which is equivalent to grams per metric tonne (g/t); the term “ppb” refers to parts per billion. Some historic grades are reported in “oz./ton” which is ounces per short ton. “Ma” refers to million years. The symbol “%” refers to weight percent unless otherwise stated. “QA/QC” refers to “Quality Assurance/ Quality Control”.

ICP-ES stands for “Inductively coupled plasma emission spectroscopy”, and AA stands for “atomic absorption”. AQ300 refers to 33 element four-acid ICP-AES. “FA350-Au” refers to gold (Au) analysis of a 50-gram sample by fire assay with ICP-ES finish.

Elemental abbreviations used in this report are:

Au: Gold	Mn: Manganese
Ag: Silver	Mo: Molybdenum
Al: Aluminum	Na: Sodium
As: Arsenic	Ni: Nickel
Ba: Barium	P: Phosphorous
Be: Beryllium	Pb: Lead
Bi: Bismuth	S: Sulphur
Ca: Calcium	Sb: Antimony
Cd: Cadmium	Sc: Scandium
Co: Cobalt	Sr: Strontium
Cr: Chrome	Th: Thorium
Cu: Copper	Ti: Titanium
Fe: Iron	Tl: Thallium
Ga: Gallium	U: Uranium
K: Potassium	V: Vanadium
La: Lanthanum	W: Tungsten
Mg: Magnesium	Zn: Zinc

2 LOCATION AND ACCESS

The Red Ridge Property is located in southwestern Yukon, within NTS map sheet 105D06. The claims are centered at 60°21'39" N latitude, 135°05'36" W longitude (UTM NAD 83: 494850, 6691610, Zone 8). The property is approximately 40 kilometres south of Whitehorse and approximately 30 km northwest of Carcross, Yukon (Figure 1 Red Ridge Property Location).

The property can be accessed from the Annie Lake Road, a good quality gravel road publicly maintained year-round, and extending southwest from paved Highway #2 (South Klondike Highway). At roughly Km 18 of the Annie Lake Road, an ATV trail extends 8 km to the camp site in the south-central property area.

The property is located approximately 60 road-kilometres from the City of Whitehorse, a full-service community of about 29,000 people including surrounding communities, with excellent accommodations, including groceries, hardware, camp supplies, bulk fuel and expediting services. The Mining Recorder's Office for the Whitehorse Mining District is located in Whitehorse, as are most of the territorial and some federal government services. Whitehorse has a substantial skilled labour force, including professional geoscientists and tradespeople. However, a sizable operation may require staff from outside Yukon. The property is located about 65 road-kilometres from the Village of Carcross (population, 301, Wikipedia, 2017), itself about 74 road-kilometres south of Whitehorse. Carcross has basic grocery and hardware services and some accommodations. Carcross is the northern functional terminus of the White Pass and Yukon Railway which extends to the seaport of Skagway, Alaska.

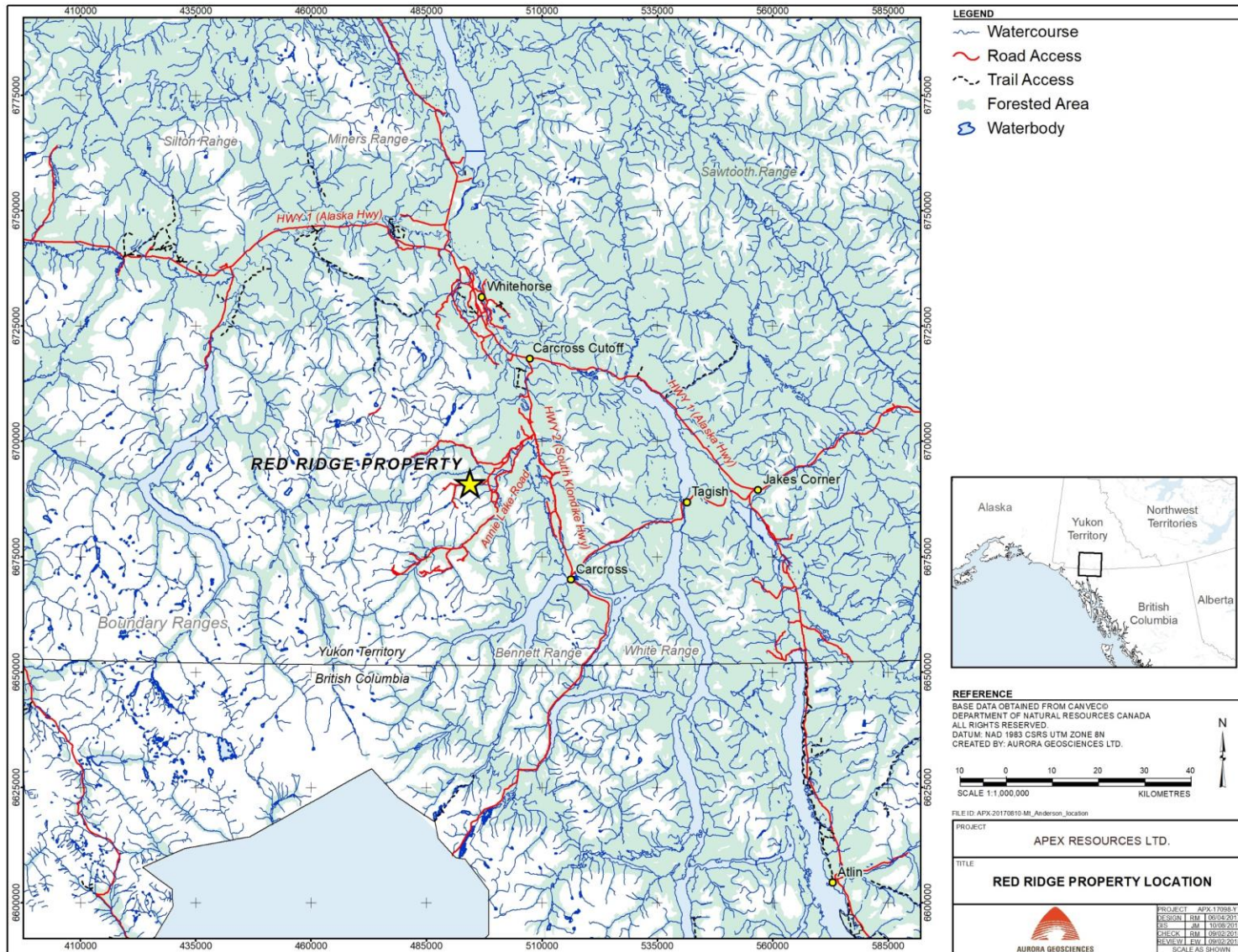


Figure 1 Red Ridge Property Location

3 PHYSIOGRAPHY

The climate in the Red Ridge area is a combination of coastal montane and subarctic continental, with short, warm summers and long, very cold winters. Average daily high and low temperatures in July for Carcross (30 km SE of the property) are 21.7°C and 6.7°C, respectively. The average daily high and low temperatures in January are -13.2°C and -22.7°C. Average precipitation varies from 5.5 mm in April to 32.9 mm in September comprising an annual total of 279.8 mm (Environment Canada, 1981 to 2010 information for Carcross, YT). Winter snowfall is moderate, and road access to the higher elevations of the property is feasible from mid June until mid-September. Temperatures at the property are somewhat lower than those at Carcross, and precipitation is somewhat higher, depending on elevation. The field season extends from late May until late September, but diamond drilling may be done in winter conditions if freezing of water lines can be prevented. Extended daylight hours occurring from May through August assist in the feasibility of exploration.

The property is situated towards the northern limit of the Coast Mountains. The main Red Ridge topographic feature is an east-west trending narrow ridgeline with steep flanks. Elevation ranges from approximately 940 m (3,085 feet) along Thompson Creek to about 1,540 m (5,050 feet) at the top of Red Ridge. Outcrop exposure is abundant along the ridgeline, and along parts of both flanks, but sparse at lower elevations. The area underwent several episodes of glaciation, including the most recent McConnell event, resulting in abundant cirques and U-shaped glacial valleys in the surrounding area.

Typical boreal forest vegetation, including lodgepole pine, white spruce and poplar, covers lower elevations, becoming progressively stunted and mixed with “buckbrush” with increasing elevation. The ridgeline is covered by tundra vegetation, and portions of the upper areas of the flanks, particularly in western areas, are essentially vegetation-free.

4 CLAIM INFORMATION

The Red Ridge Property is located within the Whitehorse Mining Division and consists of 73 contiguous Yukon quartz claims covering 1,352 hectares (Figure 2). Claim information is listed in Table 1. All RED claims are 100% held by Apex Resources Inc. and are included in the option agreement. All other claims are owned by Brian Scott (50%) and the estate of Larry Bratvold (50%) and are under option to Apex Resources Ltd. Apex has the right to earn a 100% interest in the property by making payments of \$150,000 cash and 500,000 shares over 4 years, plus completing \$430,000 of exploration expenditures. The property vendors will retain a 2% net smelter return of which half (1% NSR) can be purchased for \$1,000,000.

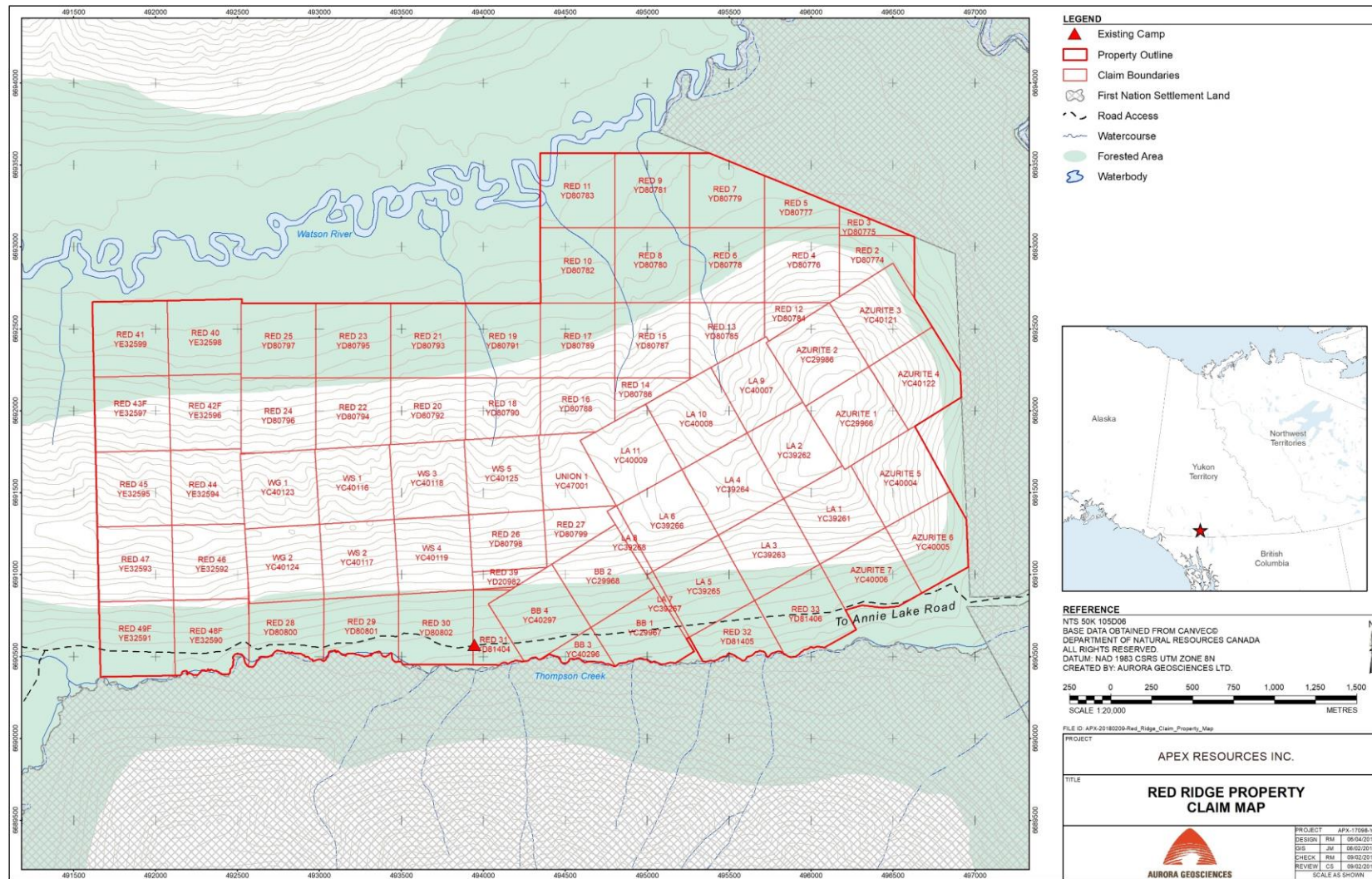


Figure 2 Red Ridge Claim Map

Table 1 Claim Information

Claim Name	Tenure Number	Anniversary Date
AZURITE 1	YC29966	2-Jan-24
AZURITE 2	YC29986	13-Jan-24
AZURITE 3 - 4	YC40121 - YC40122	4-Jan-24
AZURITE 5 - 7	YC40004 - YC40006	15-Dec-23
BB 1 - 2	YC29967 - YC29968	2-Jan-24
BB 3 - 4	YC40296 - YC40297	20-Mar-24
LA 1 - 8	YC39261 - YC39268	10-May-24
LA 9 - 11	YC40007 - YC40009	15-Dec-23
RED 2 - 30	YD80774 - YD80802	26-Jun-23
RED 31 - 33	YD81404 - YD81406	26-Jun-23
RED 39	YD20982	19-Sep-18
RED 40 - 41	YE32598 - YE32599	19-Sep-18
RED 42F - 43F	YE32596 - YE32597	19-Sep-18
RED 44 - 45	YE32594 - YE32595	19-Sep-18
RED 46 - 47	YE32592 - YE32593	19-Sep-18
RED 48F - 49F	YE32590 - YE32591	19-Sep-18
UNION 1	YC47001	14-Dec-23
WG 1 - 2	YC40123 - YC40124	27-Jan-24
WS 1 - 4	YC40116 - YC40119	27-Jan-24
WS 5	YC40125	27-Jan-24

Table 2 lists the cash and share payments and work commitments to complete acquisition of the property.

Date	Cash Payments	Shares	Work Commitment
Upon Signing	\$5,000		
Upon Regulatory Approval	\$5,000	50,000	
1st Anniversary	\$20,000	50,000	\$30,000
2nd Anniversary	\$30,000	100,000	\$75,000
3rd Anniversary	\$40,000	100,000	\$125,000
4th Anniversary	\$50,000	200,000	\$200,000
TOTAL	\$150,000	500,000	\$430,000

Table 2: Payment schedule, Red Ridge property

5 HISTORY

This section is copied *verbatim* from Section 5 of the 2016 Assessment Report titled "Geological and Geochemical Report on the Red Ridge Property" by Linda Dandy.

Considerable prospecting was carried out in the Wheaton and Watson River areas starting in the early 1900s, culminating in the discovery of numerous gold and silver deposits and occurrences. The Legal Tender (gold/silver), Gold Hill (gold), and the Idaho Hill (gold/silver/lead/zinc) veins were discovered within 5 kilometres of the Red Ridge Property during this period. Intermittent exploration and prospecting has been ongoing since that time.

In 1981, Agip Canada Ltd. discovered a gold ore body at Mt. Skukum, some 23 kilometres from Red Ridge, and started a resurgence of exploration activity in the area. This era of exploration resulted in Omni Resources Ltd. discovering additional gold-silver deposits at Skukum Creek and Goddell Gully which have since been acquired by Tagish Lake Gold Corp. and now owned by New Pacific Metals Corp. New Pacific announced that they have currently defined resources, using a cutoff grade of 3.0 g/t gold (Simpson, R.G.; 2013), of:

Mt. Skukum (Lake Zone)	Inferred	90,500 tonnes	9.51 g/t Au equivalent
Skukum Creek	Indicated	1,086,800 tonnes	8.73 g/t Au equivalent
Skukum Creek	Inferred	586,000 tonnes	6.83 g/t Au equivalent
Goddell Gully	Indicated	329,700 tonnes	8.13 g/t Au equivalent
Goddell Gully	Inferred	483,900 tonnes	7.13 g/t Au equivalent

Exploration for porphyry copper/molybdenum on Red Ridge was done by Inco Limited in the early 1970s. No details of this work are available, since no assessment reports were filed.

Precious metal exploration was initiated on Red Ridge in 1985 when Havilah Gold Mines and New Era Developments discovered several gold/silver veins. Exploration work consisted of prospecting, soil and rock geochemistry along with a trenching and small diamond drilling program. Between 1985 and 1988, three mineralized zones were identified: East Zone, Saddle Zone and O Zone. The East Zone has clay-quartz-carbonate veins containing galena-pyrite-tetrahedrite which have returned values up to 25312.5 g/t (810 opt) silver with negligible gold. The Saddle Zone, a 5-metre-wide zone of manganese stained, clay altered and silicified fractured granodiorite hosts veins and stringers of quartz which returned values to 35 g/t (1.12 opt) gold and 343.75 g/t (11 opt) silver from grab samples. The O Zone trench uncovered a 2-metre-wide shear zone in andesitic volcanics hosting pods and seams of galena within quartz/carbonate pods. Very little alteration was noted in the O Zone other than minor chlorite and limonite. Two samples taken from this zone returned values 4.0 g/t (0.128 opt) gold and 54.1 g/t (1.73 opt) silver over 1.00 metre, and 25.4 g/t (0.814 opt) gold and 161.9 g/t (5.18 opt) silver over 0.05 metres (Henneberry, 1988).

In 1988 and 1989, 23 short diamond drill holes were put in on the Red Ridge property. Best results were 3.1 g/t gold and 309.4 g/t silver over 0.76 metres in the Miller Zone and 3.6 g/t gold and 68.4 g/t silver over 0.73 metres in the Saddle Zone (Henneberry, 1989). Additional core sampling carried out in 1999 (Glynn, 2000) expanded the Saddle Zone mineralization to 2.87 g/t gold over 2.3 metres.

Prospector Larry Bratvold staked the property in 2004 and 2005 to cover the known mineral occurrences and to investigate the bulk tonnage potential of the calcareous sediments and felsic intrusives. Prospecting was carried out by Scott and Bratvold in 2006, excavator trenching in 2007 and grid establishment in 2009.

The Property was optioned to Prize Mining Corp. in fall 2007, and initial sampling was very encouraging. Prize announced their intention to follow up with extensive geochemistry and geophysics; however global market conditions caused Prize to return the property to the vendors.

In 2011, the Property was again optioned, this time to Monster Mining Corp. who dropped their option one year later, with no significant work progress.

5.1 Work Done by Apex Resources Ltd. in 2016

In 2016, work by Apex on the Red Ridge Property consisted of prospecting at the East, Don, Saddle and Miller Zones and collection of 13 rock grab and chip samples. Work was completed on September 16, 2016 by a two-person crew accessing the property via ATV.

6 GEOLOGY

6.1 Regional Geology

The following section is based on Section 7.1 of the technical report titled “Technical Report, Mt. Anderson Property – Yukon Territory, Canada”, by Carl Schulze.

The Red Ridge property is located directly east of the western margin of the Intermontane Superterrane, where it abuts against the eastern margin of the Coast Plutonic Complex. To the north, the Intermontane Superterrane abuts the southwest margin of the Ancient North American Platform, marked by the Tintina Fault Zone. The Intermontane Superterrane, near the property area, comprises volcanic and sedimentary rocks of the Whitehorse Trough of the Stikinia Terrane, in east-west contact with Cache Creek Terrane submarine clastic and chemical sediments. The Intermontane Superterrane also includes the Yukon-Tanana Terrane to the north, consisting of meta-igneous and meta-sedimentary rock ranging in age from Neoproterozoic to early Tertiary, although the majority are Paleozoic rocks. Further east, the superterrane includes Slide Mountain Terrane oceanic assemblage sedimentary and volcanic rocks (Colpron et al, 2016).

The eastern margin of the Coast Plutonic Complex consists of a series of Cretaceous intrusive suites which have intruded Upper Triassic to Lower Jurassic intrusive rocks and older meta-sedimentary and meta-volcanic rocks, somewhat east of the Paleocene Annie Ned batholith. This is a portion of the Ruby Range Batholith that extends roughly along the east side of the Shaskwak Fault from extreme northwestern British Columbia to the Kluane Lake area of western Yukon. The batholith consists mainly of medium to coarse grained equigranular to porphyritic rocks of intermediate composition (Colpron et al). The Coast Plutonic Complex also includes enclaves, occurring as roof pendants, of Proterozoic to Permian aged Nisling Terrane meta-sediments, present within the property boundaries (Gall and Davis, 2011).

The Whitehorse Trough comprises Upper Triassic to Middle Jurassic mafic to intermediate volcanic rocks and clastic and lesser chemical sedimentary rocks. Major basal strata include Upper Triassic Povoas Formation mafic to intermediate volcanic flows, tuffs and breccias, sandstone and argillite, and amphibolite; and thick sequences of Upper Triassic Aksala Group carbonates and fine clastic sediments. These are unconformably overlain by Lower to Middle Jurassic Laberge Group sandstone through mudstone, and Upper Jurassic to Lower Cretaceous Tantalus Formation chert-pebble-conglomerate, fine clastic sediments and coal. A suite of Late Cretaceous Prospector Mountain Suite granitic to granodioritic intrusions have been emplaced in southern portions of the Whitehorse Trough.

The property lies about 25 kilometres northeast of the Mount Skukum Volcanic Complex and Bennett Lake Cauldron Complex (Figure 3) (Gall and Davis, 2011, after Lambert, 1974; Smith, 1983; Doherty and Hart, 1988). The complex includes the Early Paleogene Skukum Group volcanic rocks, which, together with peripheral faults extending into adjacent lithological units, hosts the past-producing Mt. Skukum gold mine, Skukum-Creek gold-silver deposit, Goddell Gully gold-antimony prospect, Becker-Cochran antimony prospect and a number of other gold, gold-silver, lead-zinc and copper showings (Gall and Davis, 2011, after Deklerk and Traynor, 2005; Lang et al., 2003; Soloviev, 2007). The dominant fault lineation is NW – SE, influenced by the orientation of the Denali Fault and Tally-Ho faults to the west and the Teslin Fault to the east. However, abundant smaller-scale NE – SW and east-west trending faults extending across all lithologies also occur in the area.

Lang et al (2002) stated that Late Jurassic to Cretaceous NW – SE trending folding has been superimposed on earlier metamorphic fabrics. Hart and Radloff (1990) studied the regional mineralogical signatures and concluded that the district has been influenced by multiple tectonic and intrusive events, each with a distinct mineralogical signature. These include a mineralizing system with an Au-Ag-Sb-base metal signature associated with reactivation along the Llewellyn Fault (Tally-Ho shear system) east of the district. The other is a system associated with an interpreted structure, the “Wheaton Lineament” as the conduit for mineralization for the western part of the Wheaton district (Gall and Davis, 2011).

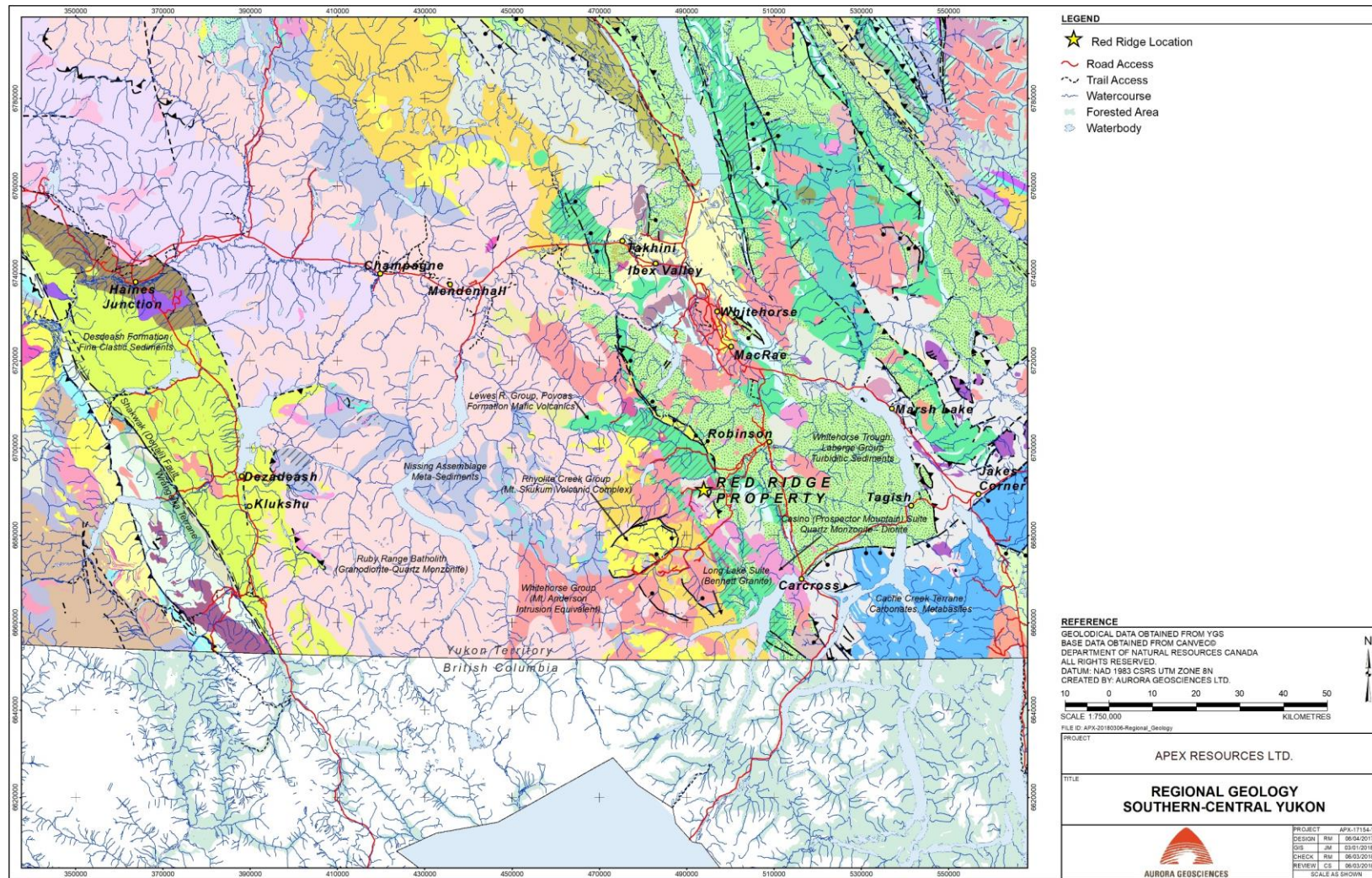


Figure 3: Regional Geology, south-central Yukon

6.2 Property Geology

Geological mapping in 2017, combined with that of previous workers, indicate that the eastern property area is underlain by an aurally extensive unit of Late Triassic Stikine Suite granodiorite, commonly feldspar-hornblende porphyritic and typically medium grained and fairly equigranular (LTrgS1, Figure 4). Within this intrusion 2017 mapping has identified two smaller units of feldspar-hornblende phyric diorite (LTrgS1), sufficiently distinct to be considered as separate lithological units, although belonging to the main Late Triassic intrusion. A wedge of Upper Triassic Aksala Group mixed fine clastic sediments and carbonates, including limestone, underlies the extreme northeast property area, and lies in fault contact with the main Triassic intrusion. The age relationship between these units is undetermined.

A broad unit of Late Cretaceous Prospector Mountain Suite quartz monzonite to granodiorite (LKqp) extends WSW from the Late Triassic intrusion towards the southwest property corner. These intrusive rocks, with an estimated age of 74Ma, are typically medium to coarse grained, and include brecciated zones with subangular to subrounded felsic intrusive clasts. This unit is bordered to the north by an aurally extensive unit of Late Cretaceous Carmacks Group basaltic to andesitic volcanic rocks, with lesser felsic volcanics. The Prospector Mountain Suite intrusive unit is bordered to the south by a package of Lower Jurassic Laberge Group argillite to greywacke (JL1), with lesser sandstone and conglomerate. Mapping in 2017 identified a small unit of Prospector Mountain brecciated limonitic granodiorite extending subparallel to the main WSW-trending unit.

Thompson Creek marks the location of an east-west trending fault separating the Laberge Group and Prospector Mountain Suite rocks to the north from a package of Carmacks Group basalts and andesites to the south of the central property area. South of the fault, the Carmacks Group volcanics are bounded to the west by a sequence of Upper Triassic Povoas Group andesite to basalt flow volcanics (uTrP), and to the east by an aurally extensive assemblage of Lower Jurassic Laberge Group, Richthofen Formation clastic and carbonate rocks.

Minor Paleocene to Eocene mafic dykes (EEa) and felsic dykes (EEr) occur throughout the property and represent outlying members of the Mount Skukum Volcanic Complex. Mafic dykes are fine grained and locally feldspar-hornblende phyric; felsic dykes are fine grained and crosscut all other rock units, including the mafic dykes. These tertiary units commonly occur along zones of structural weakness (Dandy, 2016).

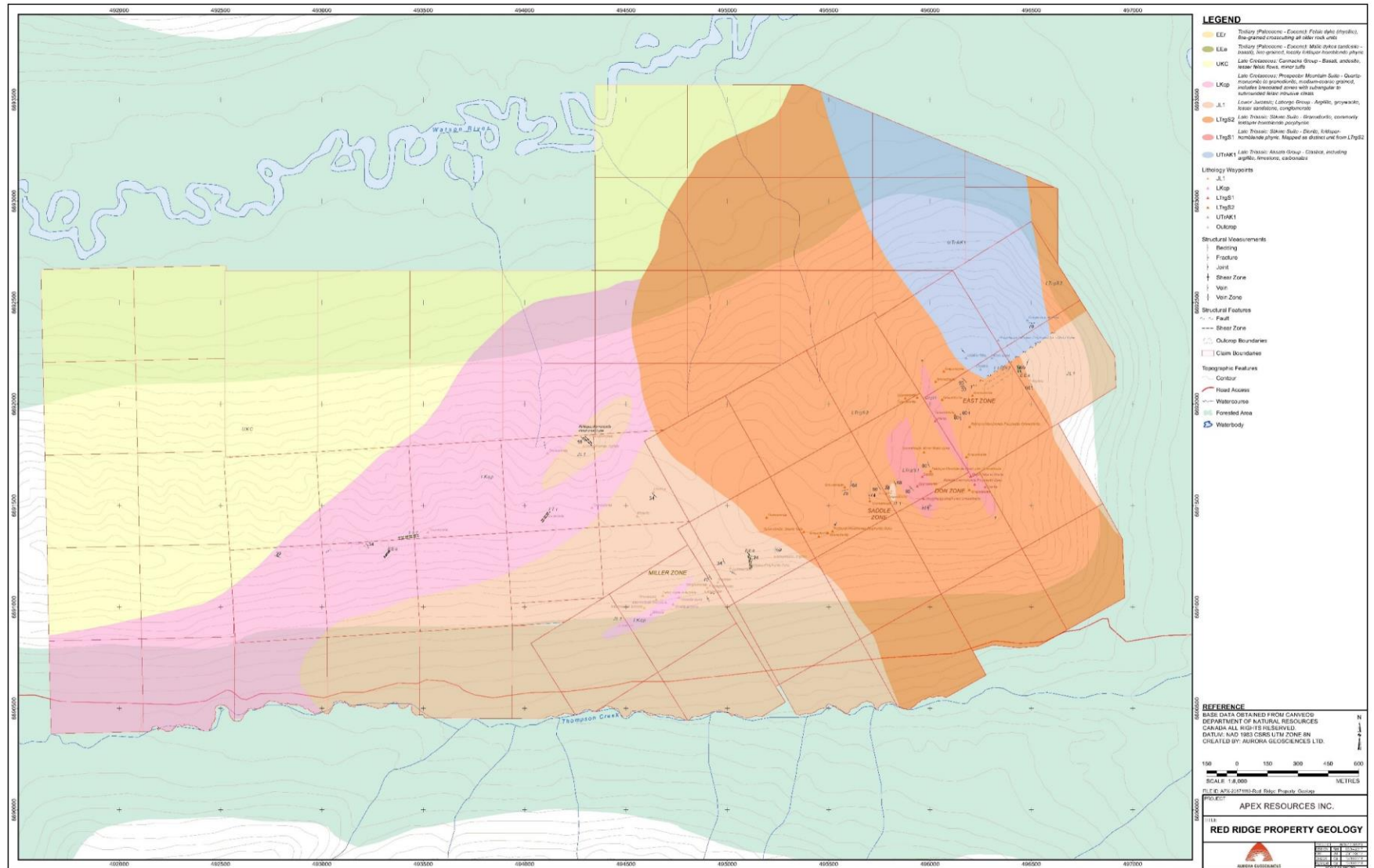


Figure 4: Red Ridge Property Geology



Figure 5: Late Triassic Stikine Suite granodiorite



Figure 6: Prospector Mountain Suite monzodiorite

6.1.1 Structural Geology

Previous work has delineated a north-south to NNW-SSE trending lineation across the property, marked specifically by the “Saddle Shear Zone”, the main host for mineralization at the Saddle Zone. Previous soil geochemical surveying also revealed several NNW-SSE trending gold-in-soil anomalies, including one fairly proximal to the Saddle Zone, which appears to have undergone offsetting due to east-west trending late faulting.

Mapping in 2017 identified numerous fracture and shear zones oriented at roughly 150° and dipping vertically to steeply to the WSW, with some steeply ENE-dipping shear zones. A second east-west trending lineation is also indicated by several east-west striking, steeply south-dipping shear and fracture zones, supporting the hypothesis of east-west trending late faulting. Vein orientations roughly conform to one of these orientations, indicating these structures formed ground preparation for subsequent mineralization. Mapping within the Laberge Group package in 2017 included bedding measurements indicating broad folding along a NNW-SSE trending antiformal axis. Tertiary dykes are commonly oriented along the NNW-trending lineation, although NE-SW trending dykes have also been mapped.

The southern boundary of the wedge of Aksala Group sediments within the Upper Triassic stock has been mapped by previous workers as a linear ENE-trending feature, suggesting a fault with significant vertical displacement.

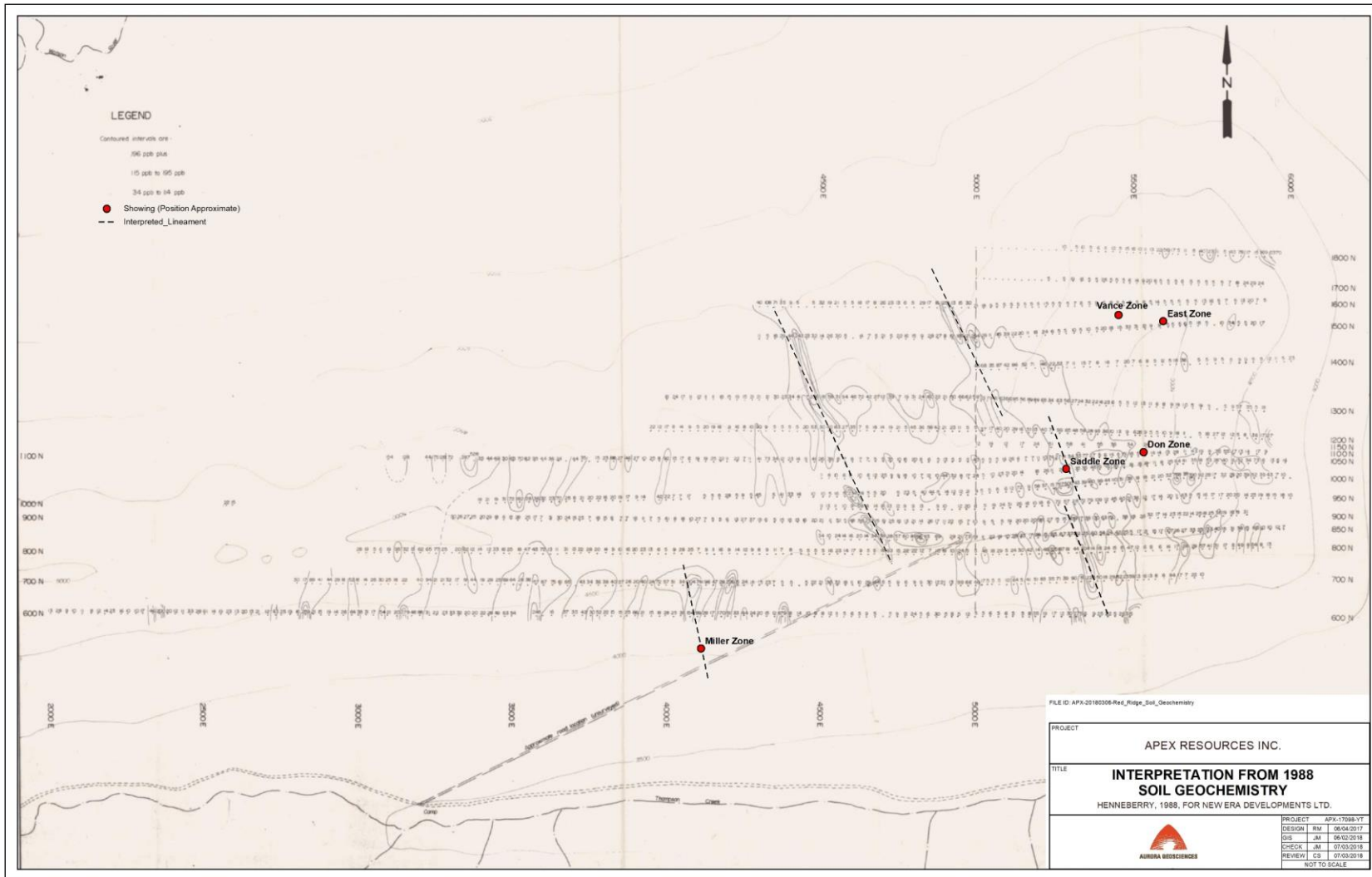


Figure 7: 1988 gold-in-soil geochemical results and interpreted lineaments



Figure 8: Breccia Zone, Late Cretaceous Prospector Mountain Suite granodiorite



Figure 9: Breccia Zone, Saddle Zone area

6.2 Mineralization

Mineralization is spatially associated with rhyolitic to rhyodacitic dykes at the Saddle and Don Zones and with andesitic dykes at the East, Vance and Miller Zones. The dykes vary texturally from massive to well brecciated, with varying degrees of argillic alteration and silicification. Most mineralized occurrences are associated with manganese and limonite, particularly at the Don, East, Saddle and Miller Zones (Henneberry, 1988).

Mineralization typically consists of tetrahedrite (weathered to azurite and malachite) and minor pyrite in the East Zone, and of pyrite and malachite (weathered chalcopyrite?) in the Vance Zone. No visible sulphide mineralization has been noted in the Don Zone, although 2% to 5% pyrite was noted in thin section. At the Saddle Zone, mineralization consists of galena and pyrite, and at the Miller Zone mineralization comprises galena, sphalerite, pyrite and minor tetrahedrite (Henneberry, 1988).

6.2.1 East Zone

The East Zone consists of three subparallel altered zones, one of which hosts mineralization exceeding 15 metres in width. This zone hosts narrow quartz/barite veins containing massive tetrahedrite, azurite, and malachite., from which Henneberry (1988) reported grades to 481.21 opt (16,499 g/t) Ag from grab sampling and to 39.56 opt (1,356 g/t) Ag across 0.9 metres from chip sampling. Mechanical trenching has exposed the vein for a length of 20 metres. Grab samples containing galena, found in hand trenched rubble, assayed 5626 g/t silver and 0.53 g/t gold (Keyser, 1987). Four diamond drill holes targeted the East Zone in 1988; the best result was 5.25 opt (180 g/t) Ag and 0.006 opt (0.21 g/t) gold across 2 feet (0.6m).

Sampling in 2017 near the East Zone returned low metal values, to a maximum of 2.4 g/t Ag with 589 ppm Cu. These may have been taken from the Vance Zone, described in the 1988 assessment report by Henneberry. However, composite grab sampling taken somewhat to the east returned values to 196 ppb Au with 2,945 g/t Ag, 0.269% Pb, 658 ppm Pb and 2.15% Cu. A 3.0-metre chip sample returned 102 ppb Au with 15.7 g/t Ag and 0.263% Zn. These may represent the actual East Zone.

6.2.2 Don Zone

The Don Zone consists of a one metre wide zone of altered granodiorite containing pods and seams of manganese-stained quartz. Sampling returned an average of 10.1 g/t gold and 1,519 g/t silver across 0.5 metres, over a strike length of 39 metres (YGS Minfile). Trenching in 1988 returned values to 0.296 opt (10.15 g/t) Au with 44.3 opt (1,519 g/t) Ag (Henneberry, 1988). A trench located 150 metres to the northwest also exposes the Don Zone. No sulphide minerals were observed in 1988 in the Don Zone. Diamond drilling returned low values, to a maximum of 0.90 opt (30.9 g/t) Ag with 0.002 opt (0.064 g/t) Au across 3.5 feet (1.1m).

Chip sampling in 2017 returned values to 1.800 g/t Au with 242 g/t Ag, 1.92% Pb and 0.220% Zn across 1.0m. A 2017 float sample returned a value of 1.466 g/t Au with 402 g/t Ag, 1.82% Pb, 3.73% Zn and 0.0609 % Cu.

6.2.3 Saddle Zone

The Saddle Zone was discovered by prospecting and consists of several small outcrops and boulders of silicified granodiorite and quartz-galena found over a 20 x 50 metre area. Initial grab samples from this zone contained 34.8 g/t gold and 342.1 g/t silver (Henneberry, 1988). Quartz veins contained trace to

several percent galena and chalcopyrite. Precious metal values are not limited to samples with sulphides indicating the presence of free gold or electrum.

Further trenching and exploratory drilling show that the Saddle Zone consists of limonite-manganese-clay gouge within a 30 metre wide zone of alteration and shearing. A quartz stockwork zone up to 1.5 metres in width surrounds the sulphide bearing quartz veins. The quartz veins returned an average of 6.1 g/t gold and 423 g/t silver over 0.5 metres for a length of 42 metres. Historic drilling of this zone returned assay values up to 28.5 g/t gold and 31.51 g/t silver over 0.4 metres (YGS Minfile). Wall rock was not sampled.

More recently, Sidehill Ventures Ltd. of Whitehorse reviewed the drill logs and sent several previously unsampled core intervals for assay. A 1.5 metre section of fractured, limonitic, granodiorite adjacent to a previous assayed section of core returned 2.34 g/t gold (YGS Minfile) increasing the weighted average to 2.87 g/t gold over 2.3 metres. It was determined that the sample interval selections were biased toward quartz veins and veinlets ignoring the potential of the wider zones of silicified granodiorite.

Chip sampling in 2017 returned values to 1.832 g/t Au with 11.2 g/t Ag, 678 ppm Pb, 0.673% Zn and 160 ppm Cu across 2.0 metres. A separate sample returned 1.945 g/t Au with 5.1 g/t Ag across 2.0 metres. A select grab sample returned 22.3 g/t Au with 87.2 g/t Ag, 4.9% Pb, 691 ppm Zn and 412 ppm Cu.



Figure 10: Shear Zone, Saddle Zone area (Sample#611318, 1.945 g/t Au)



Figure 11: Shear, Saddle Zone area (Sample #611321, 1.666 g/t Au, 508 g/t Ag)

6.2.4 Miller Zone

On the surface, the Miller Zone consists of a 2 to 3-metre wide zone of shearing and alteration that contains galena/quartz pods throughout. In addition, 10 to 30-cm wide quartz veins containing galena and pyrite occur in both the footwall and hanging wall of the zone. Grab samples of galena-bearing quartz assayed up to 883.24 g/t silver.

The Miller Zone was intersected in 8 diamond drill holes. The northern shallow holes intersected a 2 to 5-metre wide zone of brecciation and argillic alteration with an associated 30-centimetre wide galena/quartz vein. The best intersection was 3.5 g/t gold and 341 g/t silver over 0.76 metres (YGS Minfile).

A parallel structure consisting of stockwork mineralization was intersected in the hanging wall of the Miller Zone. Assay values to 0.71 g/t gold and 9.64 g/t silver over 2.13 metres were obtained from this structure. A small lens of weak argillic alteration returned 3.12 g/t gold and 98.8 g/t silver over 0.15 metres.

Sampling in 2017 returned low to background values to a maximum of 49 ppb Au with 4.4 g/t Ag, 955 ppm Pb, 1,037 ppm Zn and 403 ppm Cu from a grab sample from a test pit.

6.2.5 Copper Porphyry Zone

Section 6.3.5 was taken verbatim from the 2016 assessment report titled “Geological and Geochemical Assessment Report on the Red Ridge Property” by Linda Dandy, PGeol.

Initial exploration in 1974 by Inco Ltd. was directed toward a small (250 x 300 metres) porphyry copper system located on the southeast portion of the property. Mineralization consists of pyrite, chalcopyrite,

bornite, and molybdenite with associated malachite in quartz veinlets and disseminations in hornblende diorite. Secondary potassium feldspar is associated with several of the veins and fractures and the granodiorite is sericitized and argillically altered throughout the area. The Inco exploration program was limited to a small area of outcrop. Additional porphyry style mineralization, identified in drill core and recent road cuts, indicates the porphyry system is significantly larger and more developed than this previous exploration suggested.

6.2.6 Copper-Molybdenum Veins

Section 6.3.6 was taken verbatim from the 2016 assessment report titled “Geological and Geochemical Assessment Report on the Red Ridge Property” by Linda Dandy, PGeol.

Prospecting in 2004-2005 resulted in the discovery of massive chalcopyrite, azurite and malachite in a brecciated quartz vein 15 cm wide. Samples of vein material assayed up to 10.4% copper in grab samples (Bratvold, 2006).

A 1.4-metre wide outcrop of quartz exhibits chalcopyrite, sphalerite, massive and disseminated molybdenite. Chip samples across the vein returned assay values up to 1.6% molybdenum (Bratvold, 2006). The vein outcrops on the wall of a 10-metre wide gully, which appears to be the surface expression of a shear zone. Trenching across this zone is necessary to determine the true width of this quartz vein/shear zone.

Note: the 2016 report does not specify the location of these veins.

7 CURRENT EXPLORATION PROGRAM

The following section details exploration activities carried out by Apex on the Red Ridge property in 2017. Activities included prospecting and mapping with associated lithochemical sampling, property-scale soil geochemical sampling. This work has supported results of earlier lithological and structural mapping, and has confirmed the presence of vein and shear-hosted mineralization at the East, Don and Saddle zones.

7.1 Prospecting and Mapping

Geological mapping was conducted on the property by Mr. Leonard Gal from July 16 and July 23. Mapping activities were combined with prospecting activities, and potentially mineralized zones were sampled. A total of 61 rock samples was collected during this program.

7.1.1 Mapping Methodology

There is moderate bedrock exposure on the property with the majority of outcrop exposure being confined to existing trenches, historic workings and ridge tops. The property underwent reconnaissance mapping / prospecting / sampling at 1:10 000 scales.

Mapping stations and sample locations were recorded using a non-differential GPS. Field notes, sketches and GPS locations were then used to transfer structural and lithological data to a topographic map (1: 10 000 scale). Structural measurements were taken using a Suunto compass or Brunton transit compass, with measurements recorded according to the right-hand-rule convention.

7.1.2 General Property Geology

Property geology is discussed in detail in Section 6.2. The property is predominantly underlain by Triassic (Stuhini equivalent) metasediments, Lower Jurassic sediments Laberge Group sediments, and Late Cretaceous Carmacks Group volcanics. An aurally extensive Late Triassic Stikine Suite granodioritic pluton underlies most of the eastern property area. A unit of Late Cretaceous Prospector Mountain Suite quartz monzonite to granodiorite, locally brecciated, extends WSW from the Stikine Suite stock. The hornfelsed Laberge sediments host disseminated sulphides which are responsible for the gossan of Red Ridge. All units are crosscut by numerous Paleocene to Eocene mafic to felsic dykes and sills. These Tertiary dykes may have been an important factor in mineralizing events.

7.1.3 Structural Geology

Structural geology is discussed in detail in Section 6.2. Due to the lack of time and outcrop exposure detailed structural mapping was confined to trenches and recently exposed bedrock in road cuts. Mapping in 2017 indicates the Laberge Group sediments in the south-central property area have undergone gentle folding along roughly north-south trending axial planes. The granodioritic rocks are locally fault-bounded, and north to northwest-striking faults have been interpreted within the intrusives by other workers. Eocene mafic and felsic dykes are most commonly oriented north-south or NE-SW, with some east-west striking dykes, likely marking zones of structural preparation.

7.1.4 Mineralization

Mineralization at individual showing locations is discussed in detail in Section 6.2. Areas of notable mineralization were found in the trenches of the Don Zone with showings of azurite and malachite. Minor malachite, azurite and tetrahedrite also occur at the East Zone. Malachite associated with quartz veining occurs at the Vance Zone. Minor galena and sphalerite in float were noted at the Miller Zone. Mafic, and to a lesser extent, felsic dykes seem to have a role in localizing brittle fracture zones that may host mineralized veins. In addition, a formerly designated conglomerate is now interpreted as at least partly an intrusive breccia, which hosts mineralization at the Miller Zone. The breccia may be related to Tertiary sills and dykes in the area. The diorite at the east end of Red Ridge, formerly considered a potential porphyry copper target, does not host appreciable porphyry style alteration or mineralization.

7.1.5 Samples and Analysis

A total of 61 rock samples were collected during the geological mapping work. Sample collection was focused on potentially mineralized samples. These were delivered by Aurora personnel directly to the prep lab of Bureau Veritas Commodities Canada Ltd. in Whitehorse, YT; pulps were sent to their Vancouver laboratory for analysis. The preparation code used was PRP90-250 and the code for the 33-element ICP-ES analysis package was AQ 300 with gold by Fire Assay (FA 350). The elements analyzed by ICP-AES were: Cu, Mo, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, Th, Sr, Cd, Sb, Bi, V, Ca, P, La, Cr, Mg, Ba, Ti, B, Al, Na, K, W, S, Hg, Tl, Ga and Sc. Overlimits for Cu, Mo, Pb, Zn and Ag were done by aqua regia digestion using code AQ370. Further overlimits for Au and Ag were done by fire assay using code FA550. Rock sample locations and geology stations locations are shown in Figure 12.

7.2 Soil Geochemical Sampling

Soil samples were collected by a three-person crew between July 16th and 23rd, 2017. A total of 216 C-horizon samples were collected at three separate areas; the southern and northern flank of Red Ridge in the western property area, and the East Zone Area.

7.2.1 Grid and Line Specifications

The geochemical survey was done utilizing east-west trending flagged grid lines outbound of, and parallel to, earlier soil geochemical grids. The majority of the soil lines were located on new claims to the west, in the area of gossan showings on the ridgeline (the “Red Ridge”), and the southern flanks of the Red Ridge. Station spacing on these lines ranged from 50 to 100m. In addition, a small contour grid was placed on the east side of the property, in the area around the East Zone. Over the course of this work 216 soil samples were collected (including 11 field duplicates).

Three main soil geochemical sample grids were established according to pre-program grid layouts, and based on UTM Projection NAD83 Zone 8N. One covers the southern flanks of Red Ridge and is essentially a southern extension of the 1988 grid. The lines extend east-west, parallel to the earlier sampling. Stations were spaced at 50m intervals and the wing lines were spaced 100m apart.

Another grid covers the northern flanks of Red Ridge and is an northern extension of the 1988 grid. Stations were spaced at 50m intervals and the lines were spaced 100m apart. Due to timing constraints, four of the six lines were completed at 100-metre station spacing.

A smaller soil grid (HE-LE) was established over the East Zone Area, specifically the Azurite 4 claim, covering an area of previous high soil anomalies. Due to time constraints and difficult terrain, a contour soil grid was completed. Two soil contour lines were completed at elevations of 1,350 m and 1200 m respectively.

The locations where samples were successfully collected are shown in Figure 13.

7.2.2 Survey Specifications

The objective of the soil survey was to collect C horizon samples, where possible. The parent material for the soil is mostly weathered bedrock in areas of alpine shrub and willows. Talus fines are dominant on the northern and southern flanks of Red Ridge; therefore collecting C horizon samples did prove challenging.

7.2.3 Sampling Methodology

Samples were collected using hand augers to drill through the soil profile and extract samples. In certain areas, the crew encountered talus scree just below the A horizon, that could not be penetrated before they were able to reach the B or C horizon. In these circumstances they sampled available material (usually an A/B horizon) if possible. The horizon sampled was recorded and must be considered when interpreting geochemical results. Samples were bagged in paper kraft bags and closed with a cable tie (“Zap Strap”). These were then placed in rice bags for transport to the lab.

Soil samples were submitted by Aurora personnel directly to the prep lab of Bureau Veritas Commodities Canada Ltd. in Whitehorse, YT, with pulps sent to their Vancouver laboratory for analysis. The preparation code used was SS80 and the analysis package included ICP-ES (AQ 300, analyzing for 33 elements) and 30-gram Fire Assay (FA 330) for gold. The elements analyzed by ICP-AES were: Cu, Mo, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, Th, Sr, Cd, Sb, Bi, V, Ca, P, La, Cr, Mg, Ba, Ti, B, Al, Na, K, W, S, Hg, Tl, Ga and Sc. Results for Au, Ag, Mo, Pb and Cu are shown in Figures 14-23.

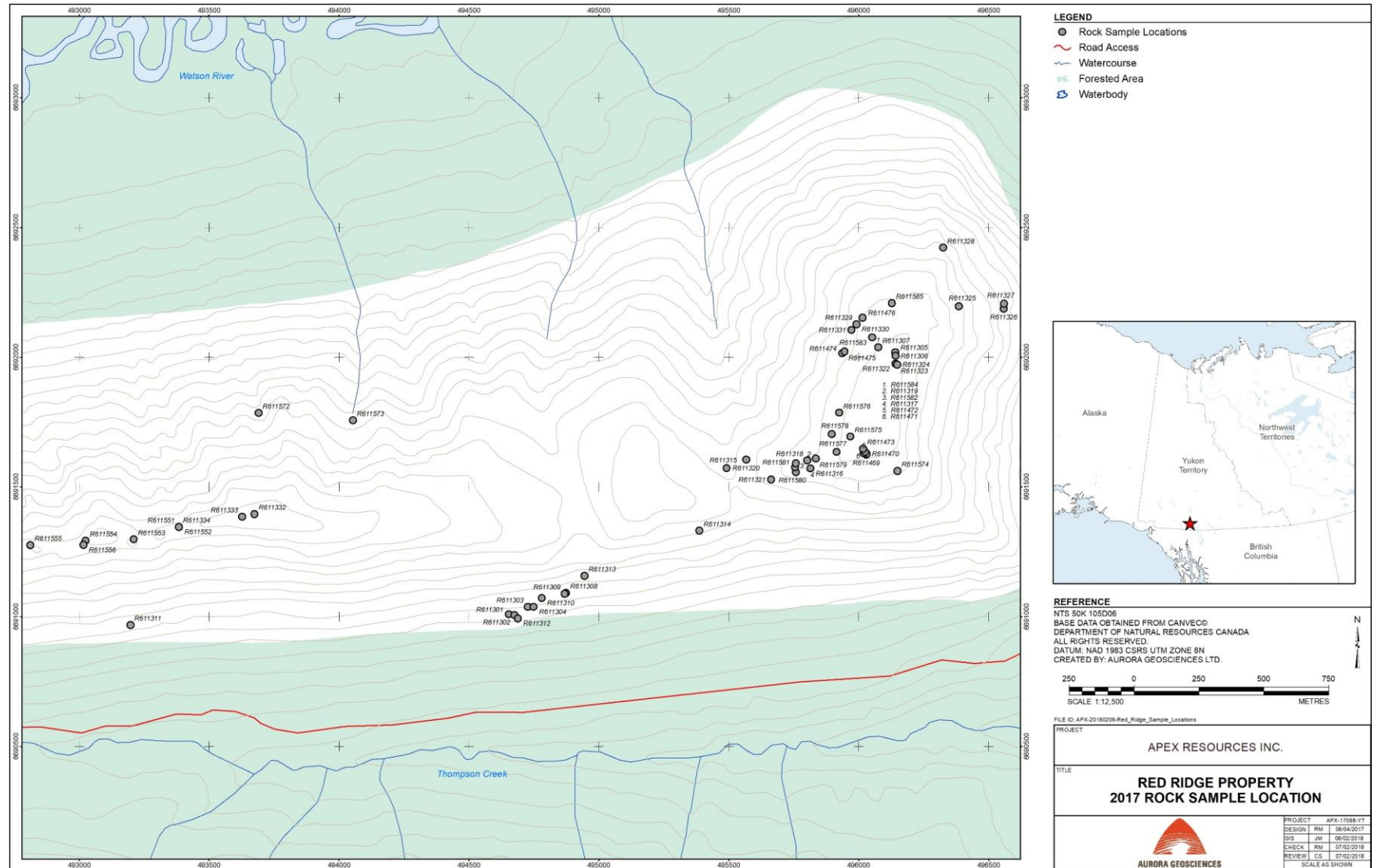


Figure 12: Rock Sample locations, 2017 program

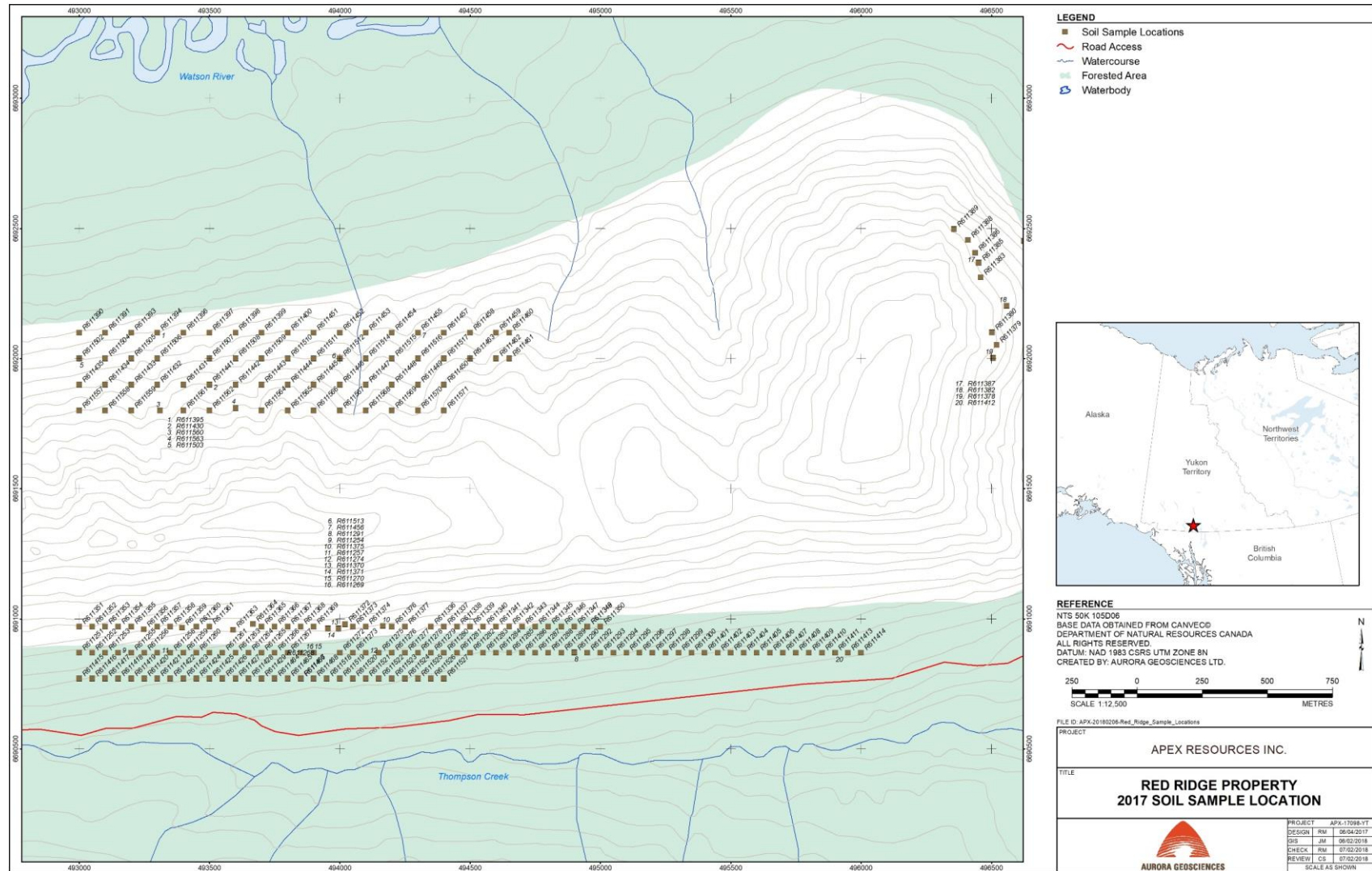


Figure 13: Soil sample locations, 2017 program

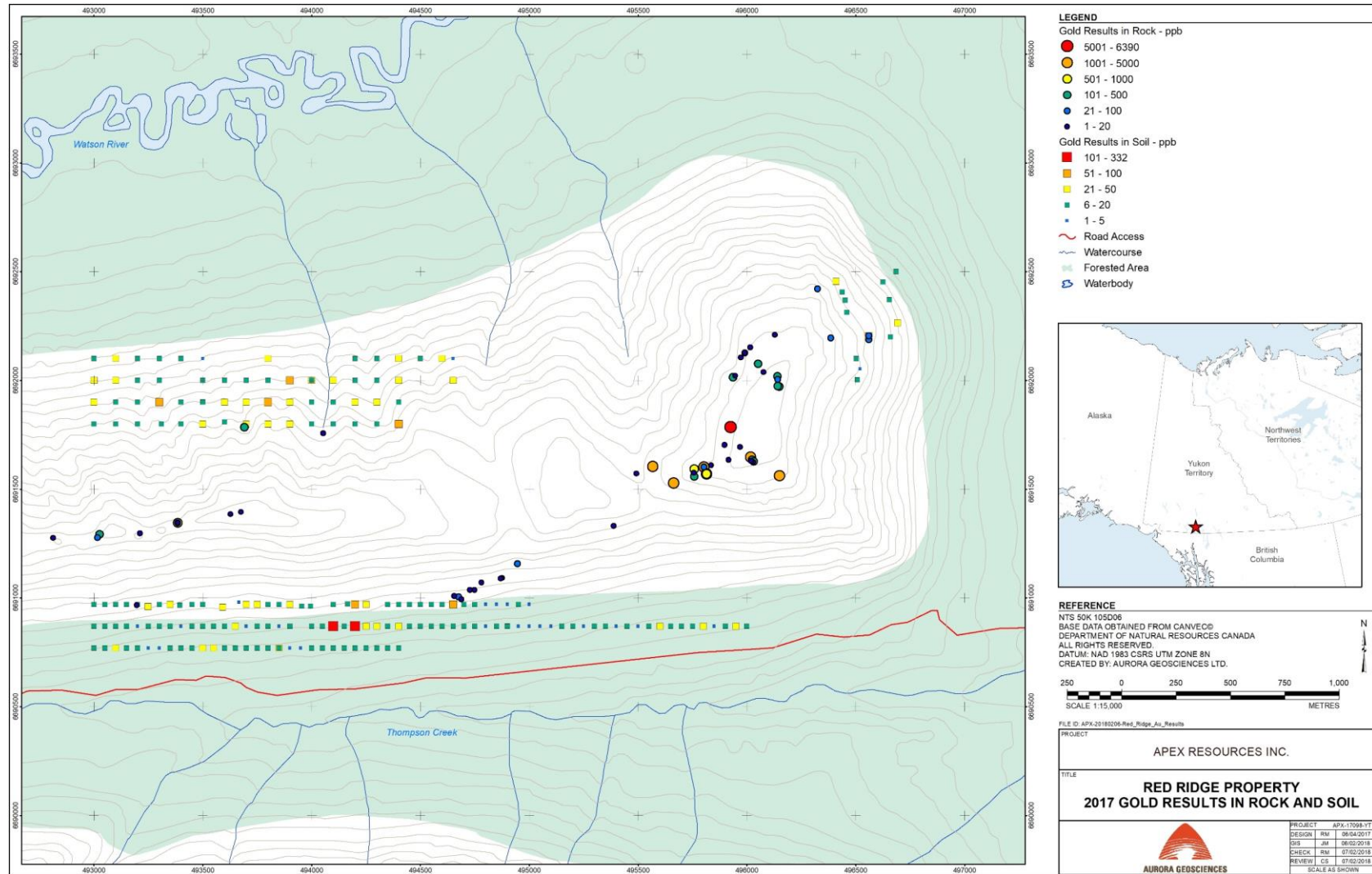


Figure 14: Gold values, 2017 rock and soil sampling

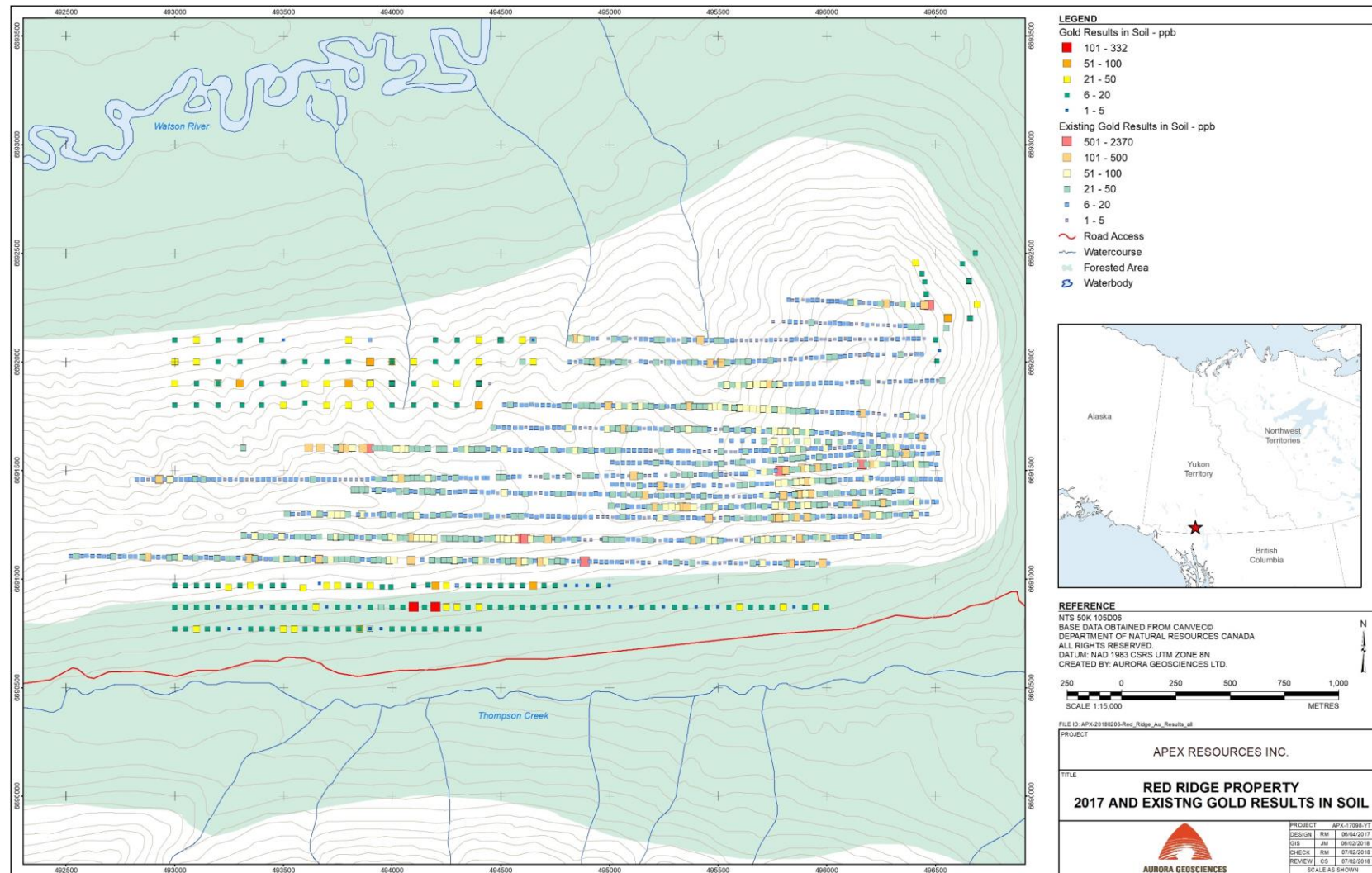


Figure 15: Combined 2017 and previous gold-in-soil values

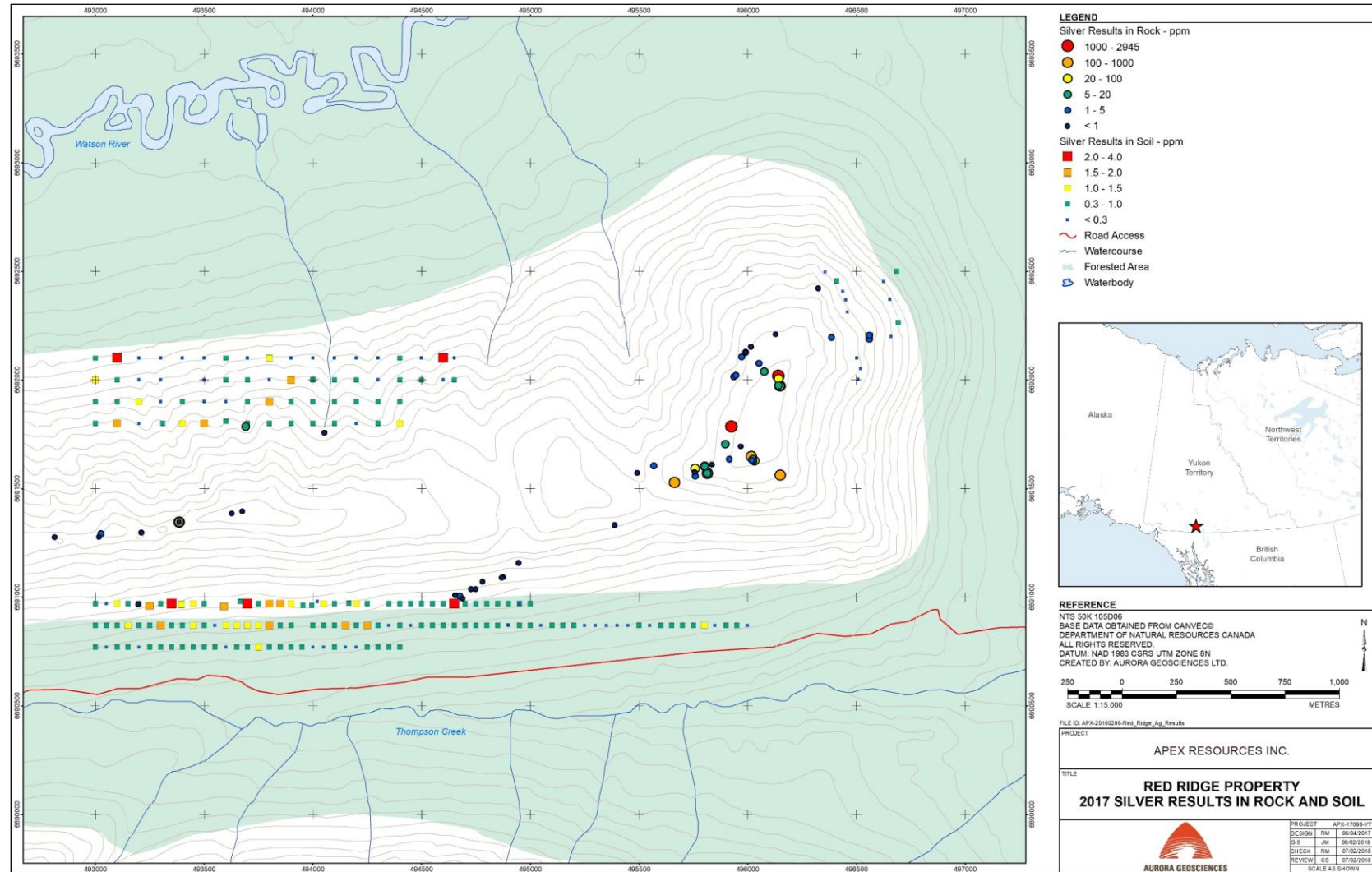


Figure 16: Silver values, 2017 rock and soil sampling

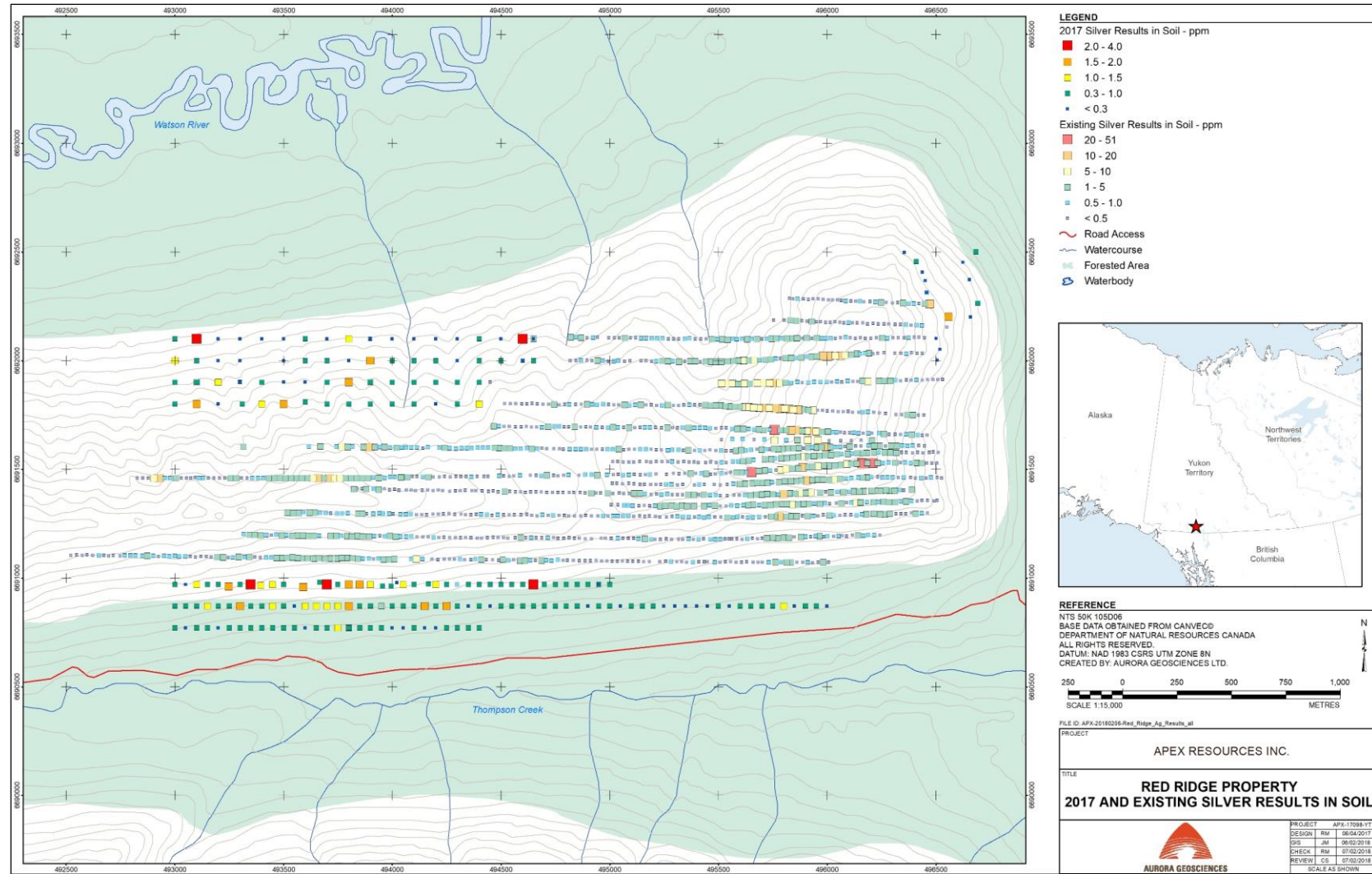


Figure 17: Silver values, combined 2017 and earlier soil sampling

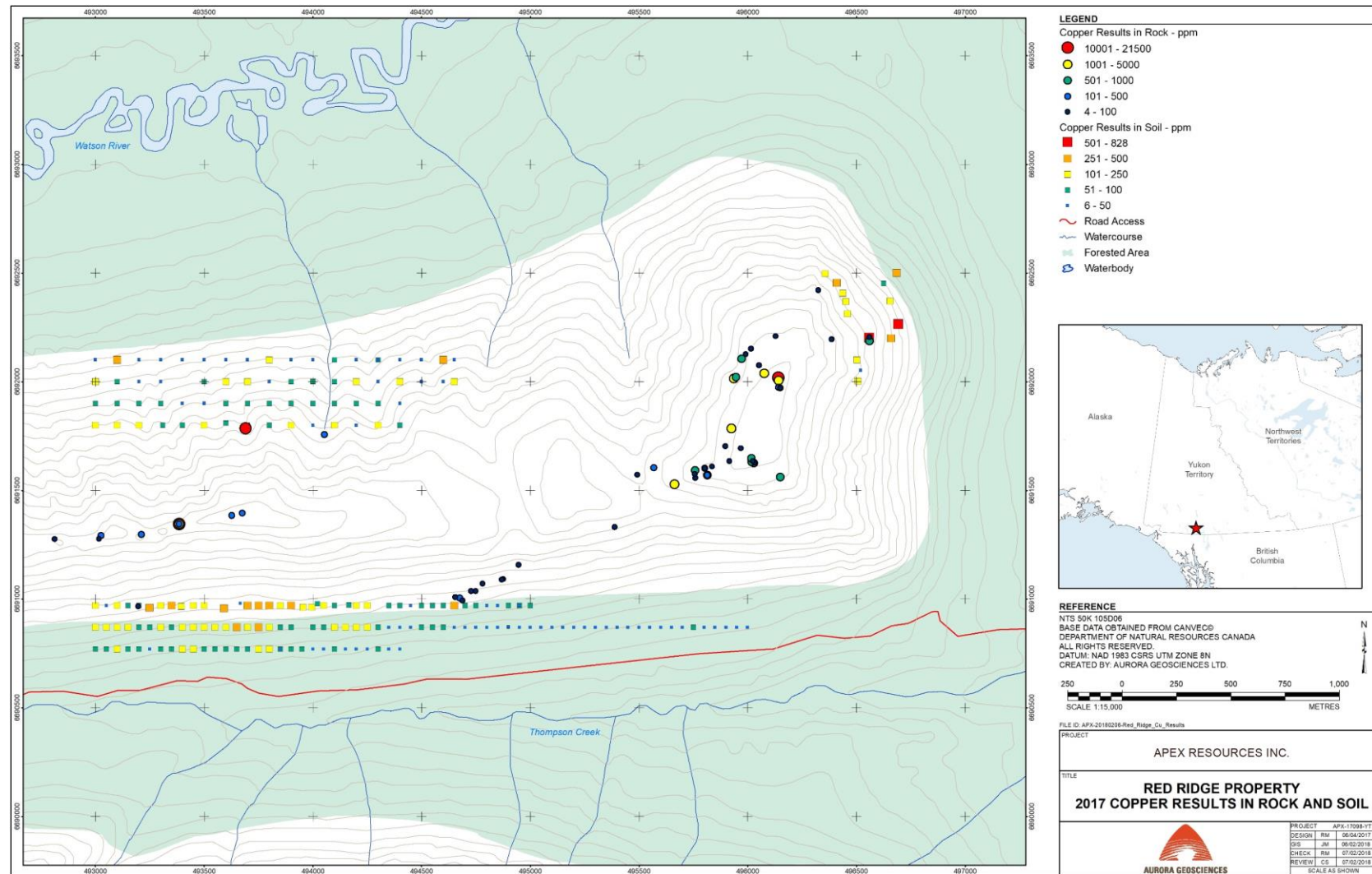


Figure 18: Copper values, 2017 rock and soil sampling

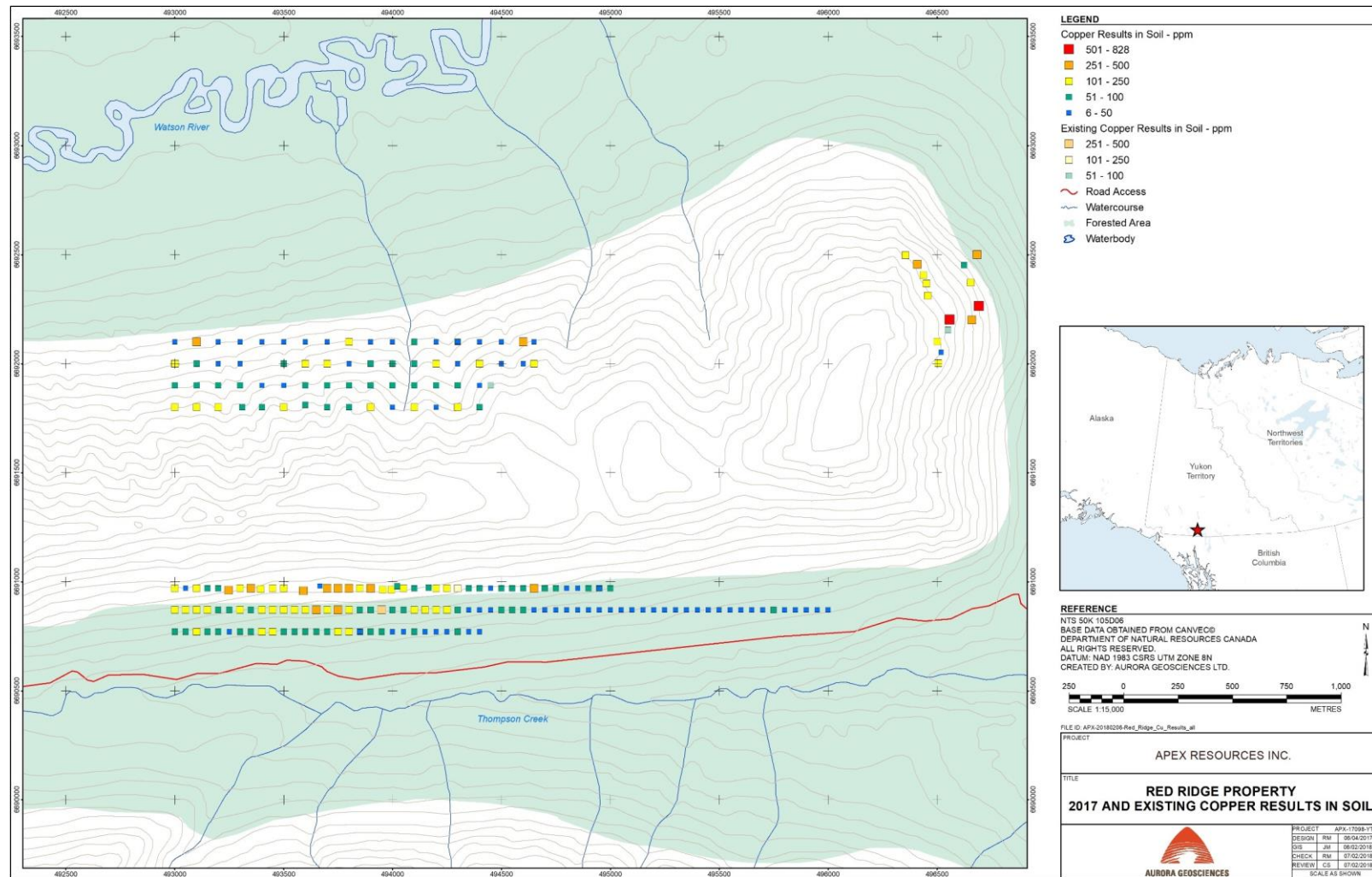


Figure 19: Copper values, 2017 and previous sampling

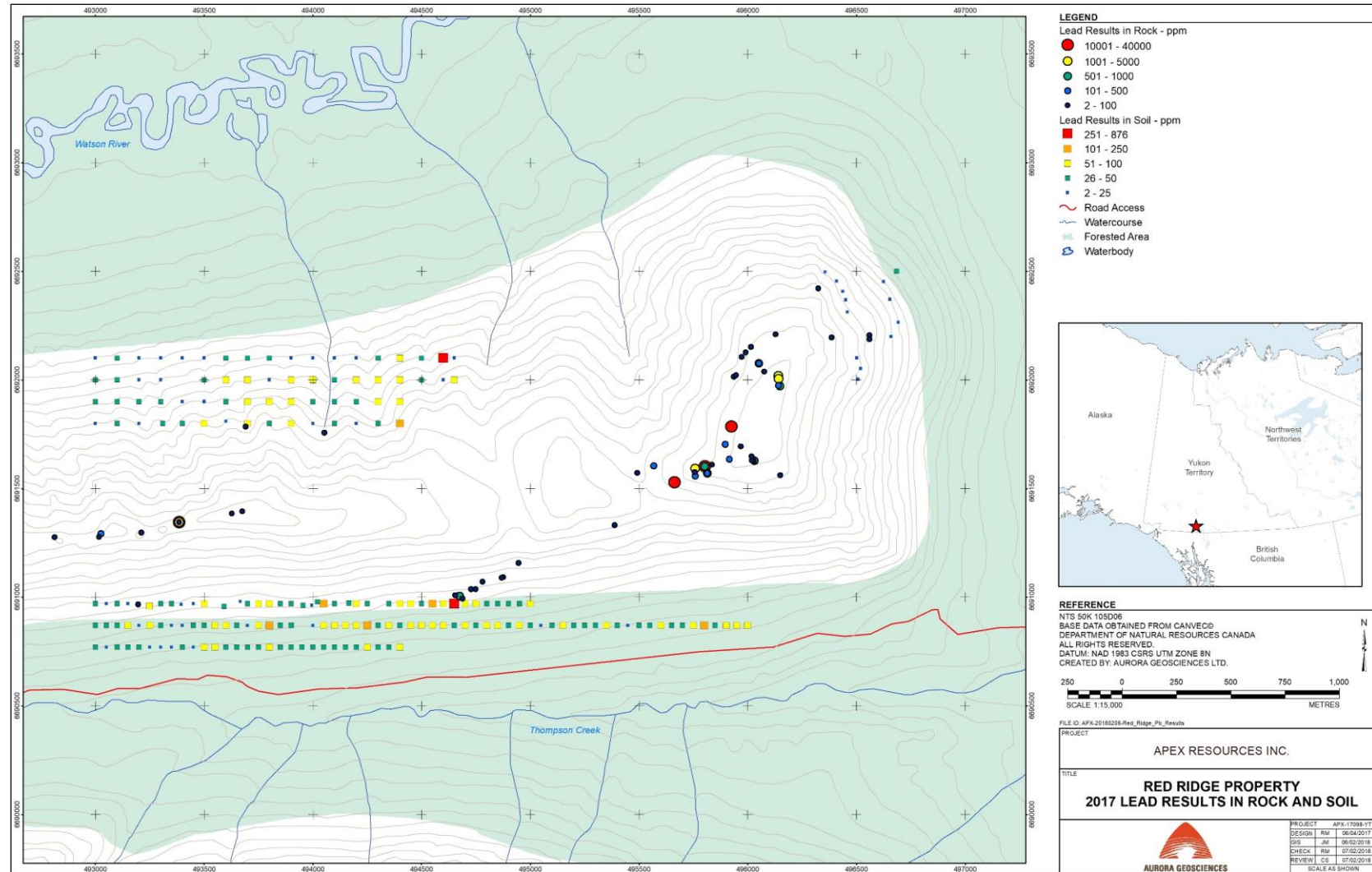


Figure 20: Lead values, 2017 rock and soil sampling

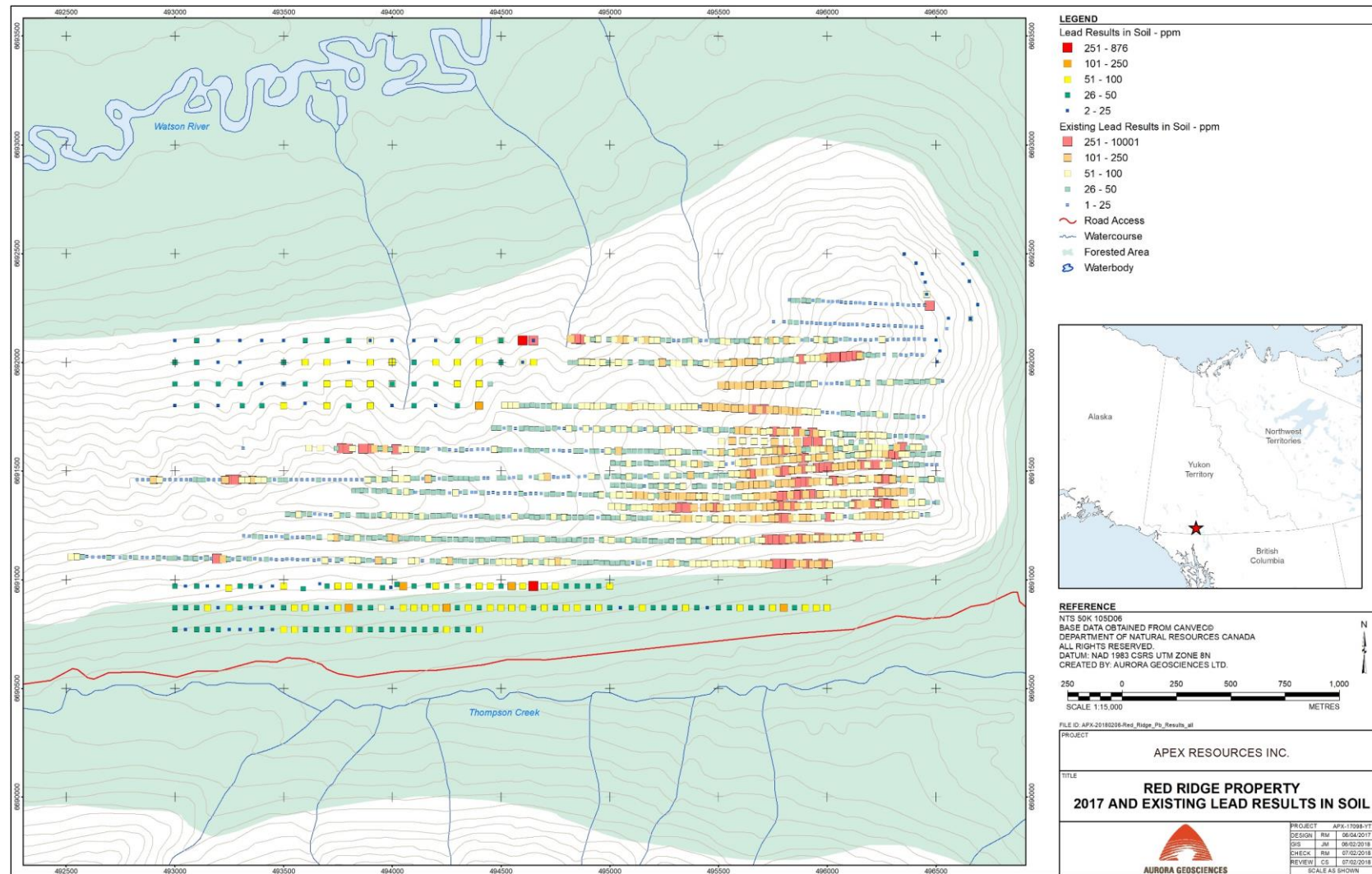


Figure 21: lead values, 2017 and previous soil sampling

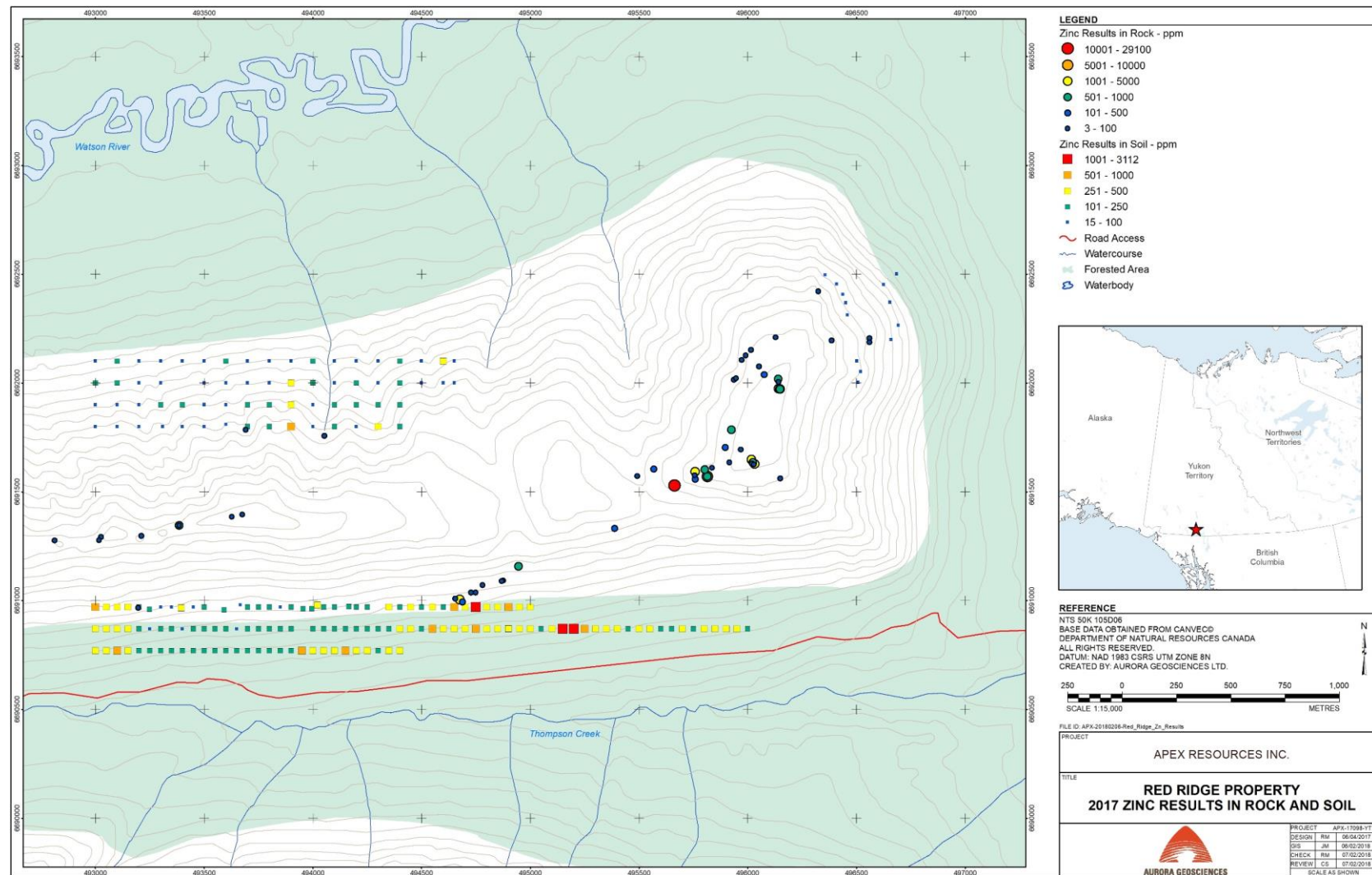


Figure 22: Zinc values, 2017 rock and soil sampling

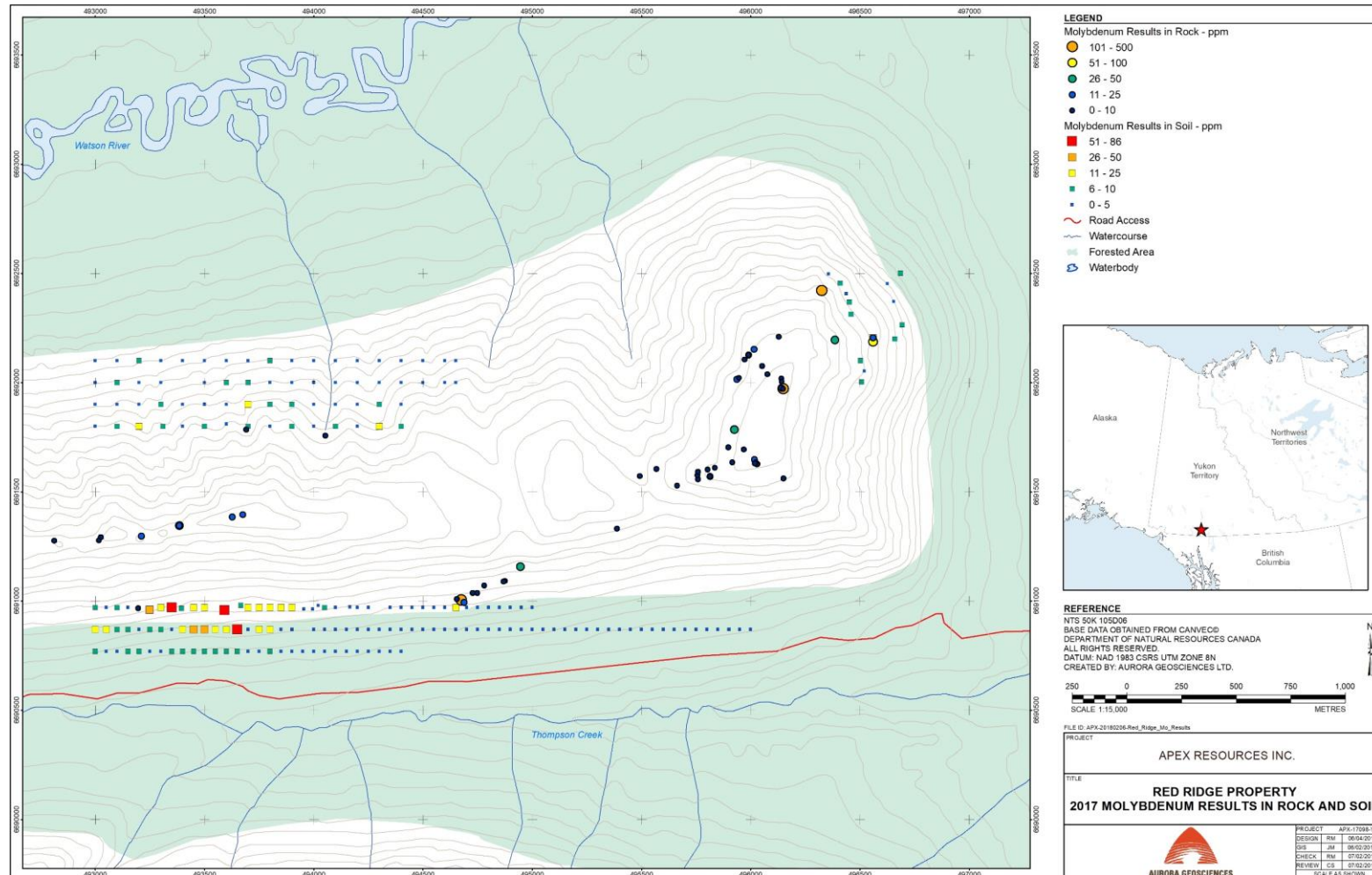


Figure 23: Molybdenum Values, 2017 rock and soil sampling

8 INTERPRETATION AND DISCUSSION

The 2017 geological mapping and rock sampling program was successful in confirming the presence of vein-style lead-zinc-silver-gold +/- copper mineralization at the East Zone, and of lead-zinc-silver-gold mineralization at the Don and Saddle zones. At the Saddle Zone, mineralization extends into the granodioritic wallrock. Sampling at the Miller Zone returned low to background values, failing to confirm results from previous workers. Geological mapping and sampling at the Copper Porphyry Zone within the eastern Late Triassic intrusion failed to identify alteration and mineralization assemblages suggestive of porphyry systems.

Soil sampling focused on downslope extensions of the western portions of earlier grids. Gold analysis from these reveal an anomaly marked by two proximal samples with values exceeding 100 ppb in the south-central area near the Miller Zone (Figures 14 and 15). These are proximal to a NNW-SSE trending lineament identified by anomalous gold values from 1988 soil sampling (Figure 7). The significance of these is enhanced by their location below tree line, where gold values tend to become subdued due to improved soil development. A single elevated lead value occurs along the northeast margin of the northern grid. Elsewhere, weakly anomalous values occur in areas of high elevation likely marked by talus fine development, and do not indicate significant mineralized zones.

Analysis of copper and molybdenum soil geochemical values reveal a coincident Cu-Mo anomaly along the south flank of the western part of Red Ridge (Figure 23). This is roughly coincident with the area of strongest gossanous staining, partly resulting from hornfelsing of sediments overlying the Prospector Mountain Suite granodiorite. The Casino porphy-style Cu-Mo-Au deposit, and the Sonora Gulch porphyry-style prospect are both centered on Prospector Mountain Suite intrusions. The Late Cretaceous intrusive unit is more prospective for porphyry-style mineralization than the Late Triassic intrusion.

Geological mapping in 2017 largely supports the results of earlier workers, although the project duration was insufficient to provide detailed property-wide mapping. Re-interpretation of soil geochemical data from the 1988 program revealed several NNW-SSE trending narrow gold-in-soil anomalies, the most pronounced roughly coincident with the Saddle Zone. The orientation of these features indicates these are individual lineaments of the pervasive district-scale NNW-SSE lineation. Detailed analysis suggests these have been offset by late east-west faulting, marked by the orientation of many of the early Tertiary dykes.

The majority of showings identified to date consists of narrow high-grade lead-zinc-silver-gold vein, stringer and stockwork-style lode mineralization. These are likely small features, therefore limiting economic potential. However, results from 1988 drilling and surface exploration along the Saddle Zone indicates a more extensive N-S trending structure represented by gold-in-soil geochemical results. If so, this has undergone local offsetting by late east-west trending faulting. This feature is roughly coincident with one of the property-scale gold-in-soil geochemical anomalies indicated by 1988 sampling. Therefore, this feature centered on the Saddle Zone, may represent a structural corridor, and is therefore considered as a prime target for subsequent exploration.

Sampling of the Miller Zone in 2017 returned low to background values, although drilling in 1988 returned favourable results. The target remains viable based on past results, and based on its location downslope

to the SSE of a strong 1988 gold-in-soil anomaly. Year-2017 soil sampling revealed a single coincident gold-silver-lead value at the Miller Zone. The Miller Zone may represent the southern extent of a longer NNW – SSE trending zone, a member of the aforementioned lineation, marked by high gold-in-soil geochemical values.

Vein-style lead-zinc-silver mineralization is common to the southwest, near the Mt. Skukum Volcanic Complex. However, the Red Ridge property is located 25 km northeast of the Mt. Skukum deposit, fairly distal from the centre of the complex, indicating the potential for a separate source of mineralization. One plausible setting is that a porphyry-style setting may occur, centered on the Late Cretaceous Prospector Mountain Suite granodioritic intrusion. Porphyry systems are commonly associated with outlying lead-zinc-silver veins, although these do not typically host high gold values. The majority of gold values are less than 5.0 g/t, indicating that “high-grade” gold is absent in most mineralized veins. Porphyry systems are also associated with “Bonanza-style” gold veins, whose presence is suggested by a single 2017 high gold value of 22.3 g/t from the Saddle Zone area. This suggests the NNW-SSE trending lineaments, acting as zones of structural preparation allowing for subsequent fluid movement, may host “Bonanza-style” gold veins related to a porphyry-style mineralized core.

9 CONCLUSIONS

The following conclusions may be made from the results of the 2017 program, combined with earlier findings.

- Year-2017 geological mapping supported earlier mapping results, including those of the Yukon Geological Survey. However, more detailed mapping is required to confirm the detailed property geology setting.
- Year-2017 soil geochemical sampling results revealed a strong gold-in-soil anomaly, associated with moderately elevated silver values, along the south flank of the western area of Red Ridge west of the Miller Zone. This is proximal to a NNW-SSE trending lineament marked by anomalous gold-in-soil values from 1988 sampling.
- Year-2017 soil sampling also revealed an aerially extensive coincident copper-molybdenum anomaly along the south flank of the Red Ridge. This is the downslope extension of the strongly gossanous red-tan talus slopes originating from hornfelsed sediments overlying an elongate unit of Late Cretaceous Prospector Mountain Suite granodiorite.
- Soil sampling in 1988 by New Era Developments identified several narrow strongly anomalous NNW – SSE trending features, indicating the presence of mineralized lineaments. The most pronounced of these extends through the Saddle Zone area, although has likely undergone offsetting along late east-west trending faults. The positive results from 1988 drilling, combined with the property-scale lateral extent of the lineament, indicated the Saddle Zone is the most prospective target in the near term.
- Rock sampling confirmed the presence of polymetallic quartz veins with high lead, silver +/- zinc and moderately high gold values at the East, Don and Saddle Zones, but failed to return strongly anomalous values from the Miller Zone. The Miller Zone remains a prospective target based on its location relative to a strong gold-in-soil anomaly to the NNW, and results from 1988 drilling.

- The Late Cretaceous Prospector Mountain Suite intrusion is associated with a strong red-tan gossan, indicating hornfelsing of overlying sediments. The strong coincident copper-molybdenum anomaly from soil sampling is associated with this, suggesting the intrusion may be the centre of a porphyry-style system. High grade lead-zinc-silver veining and one high gold value from the Saddle Zone area may also indicate outlying features of a porphyry system.

10 RECOMMENDATIONS

The Red Ridge property remains prospective for vein-style lead-zinc-silver-gold, and may also be prospective for porphyry-style mineralization. Recommendations for further work consist of a two-phased program, comprising a Phase 1 surface program followed by a Phase 2 1,200-metre diamond drilling program in eight holes. These should be preceded by an airborne magnetic/DIGHEM survey, possibly drone-supported, as well as an airborne “Lidar” survey to establish topographic control. A radiometric survey may also be warranted to test for alteration assemblages.

The Phase 1 surface program is recommended to consist of detailed geological mapping combined with rock sampling, to establish the property-scale geological setting. Phase 1 should also include about 15 line-km of Induced Polarization (IP) resistivity and chargeability surveying covering the known mineralized zones. These may be extended to the west to test for chargeability signature across the Prospector Suite intrusion. Phase 1 should also include some trenching by heli-transportable backhoe across portions of the Saddle, Miller and Don zones. Phase 1 may commence by mid-June and extend until mid-July.

Geological mapping should focus on identification of alteration assemblages, particularly for porphyry-style alteration in the western property area, as well as defining mineralized settings of known showings.

Phase 2 will consist of a diamond drilling program using heli-portable drills and extraction of HQ or NTW-sized core. Specific target sites are: the northern and southern portions of the Saddle Zone structural lineament, the eastern Late Triassic intrusion, the newly identified strong gold-in-soil anomaly west of the Miller Zone and the NNW extension of the proximal lineament, and two other targets identified from 1988 and 2017 soil and rock sampling. Some trail construction and refurbishment to accommodate ATV “side-by-side” vehicles are also recommended. Phase 2 may commence in late July, following compilation of results from Phase 1.

Both programs would be helicopter-supported, based from a camp in the south-central property area, although existing trails may be used by ATVs for occasional commuting.

The Phase 2 program, including trail construction and refurbishment, will require a Class 3 Mining Land Use permit, submitted to the Yukon Environmental and Socio-Economic Board (YESAB), and provided by the Department of Energy, Mines and Resources.

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YUKON GEOLOGICAL SURVEY; MINFILE 105D 100. Website at <http://data.geology.gov.yk.ca>

Yukon Mining Recorder: Website at: <http://www.yukonminingrecorder.ca/>

APPENDIX I

CERTIFICATE OF QUALIFICATIONS

CERTIFICATE OF QUALIFIED PERSON

I, David Cox, of the City of Yellowknife, in the Northwest Territories, Canada,

HEREBY CERTIFY:

1. That my address is 3506 McDonald Drive, Yellowknife, N.W.T. X1A 2H1.
2. That I am a graduate of University College Dublin
 - a) B.Sc – Geology, 2008
3. That I am a graduate of the University of British Columbia:
 - a) M.Sc. – Geochemistry, 2013
4. That I have been practicing geology since 2008

June, 2008 - January 2009	Teck Cominco Ireland Wicklow, Ireland, Geologist
July 2009 - November 2009	Hawthorn Gold Corp. Vancouver, BC, Geologist
January 2010 – April 2010	Teck Cominco Ireland Windhoek, Namibia, Geologist
May 2013 – October 2014	Seabridge Gold Inc Toronto, ON, Geologist
January 2015 – Present	Aurora Geosciences Ltd Yellowknife, NT, Geologist

5. As an employee of Aurora, I have contributed to this report.

6. At the time of report preparation I have 9 years of gold, diamond, uranium and base metal exploration experience which qualifies me to prepare relevant sections of this report.

7. That I have contributed the following sections to this report: 6 History; 8 Deposit Types; 9.4 Geochemical Surveys; 11 Sample Preparation and Analysis and 23 Adjacent Properties.

8. As of November 15, 2017, to the best of my knowledge, information and belief, I am not aware of any material fact or material change with respect to technical aspects of the report which is not reflected in the report, and that all required scientific and technical information has been disclosed in order to make the technical report not misleading.

9. That I am independent of the issuer as defined by the tests set out in Section 1.5, "Standards of Disclosure for Mineral Projects" (May 09, 2016), National Instrument 43-101.

This certificate applies to the NI 43-101 compliant technical report titled: "TECHNICAL REPORT, FOX LAKE PROPERTY – NORTHWEST TERRITORIES, CANADA", dated November 15, 2017.

Dated, November 15, 2017, at Yellowknife Northwest Territories



David Cox.

Aurora Geosciences Ltd.

CERTIFICATE OF QUALIFIED PERSON

I, Carl Schulze, BSc, with business and residence addresses in Whitehorse, Yukon Territory, do hereby certify that:

1. I am a graduate of Lakehead University with a B.Sc. degree in Geology obtained in 1984.
2. I am a Professional Geoscientist registered with the Association of Professional Engineers and Geoscientists of British Columbia (registration number 25393), Association of Professional Geoscientists of Ontario (registration no. 1966) and with the Northwest Territories and Nunavut Association of Professional Engineers and Geoscientists (NAPEG, registration number L3359).
3. I have been employed in mineral exploration as a geologist since 1984, primarily on projects in the Yukon Territory, Northwest Territories, Nunavut, Alaska and British Columbia.
4. I supervised the work described in this report, reviewed, edited and contributed sections to this report.
5. I have no interest, direct or indirect, nor do I hope to receive any interest, direct or indirect, from Eureka Resources Inc. or any of its properties.

Dated this 8th day of March, 2018 in Whitehorse, Yukon Territory.

Respectfully Submitted,

Carl Schulze

Carl M. Schulze, BSc. P. Geo.

APPENDIX II

SAMPLE DESCRIPTIONS

Project:	APX-17098-YT
Datum / Projection:	NAD83/zone 8
Declination:	20E

Planar data entered using the right hand rule

Sample Number	Location			Recording info		Sample Type	Sample Width	Note	Rock Unit	Strike	Dip	Faults / shears		Veins	Alteration				Grain	Mineralization	Description		
	UTME	UTMN	Z	Mapper	Date									FS1		V1	A1	Int	A2			Int	Size
														S	D	S							
R611301	494654	6691009		LG	7/16/2017	Select grab		Brecciated	Carbonate vnlets										M	py	no mafic rafts, qtz vnlt in country rock		
R611302	494675	6691006		LG	7/16/2017	Select grab		Drusy	Qz breccia							K	str		M		strong pink		
R611303	494727	6691038		LG	7/16/2017	Comp. Grab		Dyke	Rhyolite										M-C		very fresh, light outcrop		
R611304	494749	6691038		LG	7/16/2017	Select comp grab		Dyke	Felsic dyke							Si	wk		M				
R611305	496140	6692019		LG	7/16/2017	Comp. Grab		East Zone?	Granodiorite							Chl	wk		M		island in swamp		
R611306	496142	6692005		LG	7/16/2017	Grab		Test pit	Granodiorite							Si	mod		F		in weak shear		
R611307	496075	6692038		LG	7/16/2017	Select grab		Trench	Qz veins in granodiorite										M-C		near granitic dyke, high biotite, off line due to swamp		
R611308	494874	6691092		LG	7/16/2017	Chip	0.55m	Outcrop	Conglomerate							Si	mod		M		dark - high biotite, mafic rafts in vicinity		
R611309	494868	6691089		LG	7/16/2017	Chip	0.61m	Sill	Dacite-and, brecciated							Si	str		F		likely a granitic dyke since mafic rafts all around		
R611310	494780	6691072		LG	7/16/2017	Select grab		Dyke	Felsic dyke							K	wk		M		weakly altered, some pink around		
R611311	493197	6690968		EW	7/17/2017	Grab		Dyke	Dacite							K	wk		M		weakly altered		
R611312	494688	6690994		LG	7/17/2017	Select Grab		2 cm float	Carb-Qz veinlet							K	wk		M-C		weakly foliated		
R611313	494945	6691158		LG	7/17/2017	Grab		Brecciated	Argillite							Si	mod		M				
R611314	495387	6691332		LG	7/17/2017	Grab		Fractured	Tonalite	60						Si	str	Chl	wk	M	py	no quartz, plus amphibole, contaminated, trace py	
R611315	495492	6691572		LG	7/17/2017	Comp. Grab		Silicified	Felsic intrusive							Si	str	Chl	wk	M		strongly silicified, no sulph	
R611316	495814	6691571		LG	7/17/2017	Chip	2.0m	Saddle Zone	Andesite?			25				Si	mod		F	py	small sheared raft, no representative of country rock, high pyrite		
R611317	495814	6691571		LG	7/17/2017	Select grab		Trench near RR-11	Andesite?										M		country rock of previous sample, near fg granitic dykes @ 010		
R611318	495802	6691602		LG	7/17/2017	Chip	2.0m	Saddle Zone trench	Felsic dyke?							K	wk	Si	str	M		weakly altered and strongly silicified	
R611319	495802	6691602		LG	7/17/2017	Select grab		Saddle Zone trench	Quartz Vein							Si	str	Chl	wk	M	py	no quartz, plus amphibole, contaminated, trace py	
R611320	495567	6691605		LG	7/17/2017	Select grab		Trench	Vein in dyke					10					F	py	abundant irregular granitic vnlt's, 1-2% py in vnlt's @ 010		
R611321	495663	6691529		LG	7/17/2017	Select grab		Outcrop	Thin veinlet			10							F	py	1% py, from sheared zone trending 010		
R611322	496141	6691975		LG	7/19/2017	Chip	3.0m	Dyke, incl. gouge	Mafic Dyke							Si	str	K	str	M		dark pink outcrop all around, strongly silicified with qtz vnlt's nearby	
R611323	496148	6691972		LG	7/19/2017	Chip	0.20m	Rusty quartz	Quartz Vein							Si	str		C	py	cleavage nearby at 140, vuggy vnlt with coarse quartz growth, trace py, possibly transported, in granite like previous sample		
R611324	496148	6691972		LG	7/19/2017	Chip	0.16m	Argillic gouge nearby	Quartz Vein							Si	mod		F		20m N of contact with granite, small qtz vnlt's in area		
R611325	496385	6692196		LG	7/19/2017	Chip	0.20m	Fractured	Quartz Vein			20				Chl	wk		M		near rusty shear @ 020		
R611326	496559	6692187		LG	7/19/2017	Select grab		Fractured, rusty	Quartz Vein							Chl	wk		M		very ordinary, 15% biotite		
R611327	496560	6692206		LG	7/19/2017	Select grab		Stockwork	Quartz Vein										M		area of dark orange outcrop		
R611328	496325	6692422		LG	7/19/2017	Chip	0.20m	Quartz stockwork	Andesite							K	wk		M		genereal cleavage @310		
R611329	495991	6692127		LG	7/19/2017	Chip	0.30m	Dyke	Andesite							K	mod		M		much darker pink than prev		
R611330	495991	6692127		LG	7/19/2017	Select grab		Float	Qz-carb vein							Chl	wk		M		high quartz		
R611331	495972	6692105		LG	7/19/2017	Select grab		Brecciated	Granodiorite					140		Si	mod		M	py	trace py, near fg granitic vn @ 140		
R611332	493675	6691396		LG	7/20/2017	Grab		Limonitic	Quartz Vein										M		lighter than previous, no py		
R611333	493627	6691385		LG	7/20/2017	Grab		Fractured	Silicic dyke					10		Ep	wk		M		weak epidote, carbonate, near narrow qtz vnlt @ 010		
R611334	493384	6691346		LG	7/20/2017	Chip	1.0m	Recessive zone	Fspar por. Dyke							Ep	wk		M		very weak epidote? No carbonate		
R611551	493384	6691346		LG	7/20/2017	Select grab		Trench dump	Quartz vein							K	mod	Si	mod	M		dark pink	
R611552	493384	6691346		LG	7/20/2017	Comp. Grab		Probable blast rock	Felsite							Si	mod	Ep	str	M		strong epidote, no cabonate	
R611553	493210	6691298		LG	7/20/2017	Chip	1.0m	Near contact w. dyke	Felsite							K	mod	Si	mod	M	py	dark pink, trace py	
R611554	493025	6691293		LG	7/20/2017	Select grab		Brecciated	Quartz vein	70						Si	wk		F-M		outcrop cleavage @ 070		
R611555	492812	6691276		LG	7/20/2017			Bedrock	Mafic volcanic?							Si	wk		M		high biotite		
R611556	493016	6691277		LG	7/20/2017	Talus		Talus float	Quartz-carb vein							Si	wk		M-C		high biotite, very weak silicification		
R611572	493690	6691785		LG	7/21/2017	float	na	Malachite stain	Mafic volcanic?							Si	wk		M				
R611573	494053	6691757		LG	7/21/2017	select	na	Stockwork	Calcite veinlets										M		high biotite, very flat smooth outcrop		
R611574	496149	6691562	1520	LG	7/22/2017	select float		Dyke rock host?	Quartz vein							Si	str		M		mafic rafts around		
R611575	495968	6691694	1533	LG	7/22/2017	chip	50cm	Rusty	Granodiorite										F		no py, some granodiorite around		
R611576	495925	6691786	1518	LG	7/22/2017	select float		Vuggy, yellow stained	Quartz Vein					80					M		near qtz vnlt @ 080		
R611577	495915	6691635	1525	LG	7/22/2017	select float		Brecciated	Carbonate										M		mafic rafts to NW		
R611578	495896	6691704	1509	LG	7/22/2017	chip	40cm	Brecciated	Granodiorite										M	py	15% granitic vnlt's around, some qtz vnlt in sample		
R611579	495835	6691610	1503	LG	7/22/2017	chip	60cm	Fractured	Mafic Volcanics			10							F		migmatised, <10% granitic dykes around		
R611580	495758	6691558	1494	LG	7/23/2017	select float		Brecciated	Granodiorite							Si	wk		F-M		30% mafic rafts around		
R611581	495755	6691576	1492	LG	7/23/2017	chip	14cm	Jointed	Diorite										F		fg dyke or vn? No mafic rafts around, low biotite		
R611582	495758	6691592	1490	LG	7/23/2017	chip	30cm	Quartz veinlets								Si	mod		M		resistant hill		
R611583	496052	6692076	1519	LG	7/23/2017	rep chip	210cm	Mod. Rusty	Granodiorite							Si	str		M		strongly silicified, dk grey, contaminated?		
R611584	496052	6692076	1519	LG	7/23/2017	chip	20cm	Rusty	Gouge, granodiorite							K	wk		M		altered outcrop		
R611585	496128	6692209	1490	LG	7/23/2017	chip	20cm	Carbonate breccia	Mafic volcanics							Si	str		F-M		quart rich		
R611469	496029	6691625	1535	EW	7/22/2017	float		Malachite staining	Granodiorite			20							M-C		large shear @ 020, 2m x 2m mafic raft nearby		
R611470	496031	6691628	1534	EW	7/22/2017	rep chip	2.0m		Granodiorite							Chl	wk		M		mafic rafts to west, outcrop is lighter all around		
R611471	496019	6691630	1531	EW	7/22/2017	select float		Malachite staining	Granodiorite										M		very average		
R611472	496024	6691635	1532	EW	7/22/2017	rep chip	1.0m	Mal. In qz-carb veins	Granodiorite										M		pink outcrop, sample from cleavage at 085		
R611473	496017	6691648	1530	EW	7/22/2017	rep chip	1.0m	Limonitic	Granodiorite							Chl	wk		M		weak chlorite, pale outcrop		
R611474	495936	6692015	1480	EW	7/23/2017	select float		Carbonate vein	Mafic volcanic					320	50	Si	str		M		near 0.05m qtz vnlt		
R611475	495946	6692022	1479	EW	7/23/2017	select float		Boulder field	Granodiorite							K	mod		M		near showing trending 010, strongly stained		
R611476	496015	6692152	1499	EW	7/23/2017	rep chip	1.0m	Limonitic fracture zone	Granodiorite							K	wk	Chl	wk	F-M		altered outcrop around, weak chlorite	

APPENDIX III

ASSAY CERTIFICATES



**BUREAU
VERITAS**

MINERAL LABORATORIES
Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: **Aurora Geosciences Ltd. (Whitehorse)**

34A Laberge Road

Whitehorse Yukon Y1A 5Y9 Canada

Submitted By: Carl Schulze

Receiving Lab: Canada-Whitehorse

Received: July 24, 2017

Report Date: August 29, 2017

Page: 1 of 4

CERTIFICATE OF ANALYSIS

WHI17000348.2

CLIENT JOB INFORMATION

Project: Red Ridge

Shipment ID:

P.O. Number

Number of Samples: 63

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage

STOR-RJT Store After 60 days Invoice for Storage

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Aurora Geosciences Ltd. (Whitehorse)
34A Laberge Road
Whitehorse Yukon Y1A 5Y9
Canada

CC: Linda Dandy

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP90-250	63	Crush (>90%), split and pulverize 250g rock to 200 mesh			WHI
FA350-Au	63	50g Fire assay fusion Au by ICP-ES	50	Completed	VAN
EN002	63	Environmental disposal charge-Fire assay lead waste			VAN
AQ300	63	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN
SHP01	63	Per sample shipping charges for branch shipments			VAN
FA550	1	Lead collection fire assay 50G fusion - Grav finish	50	Completed	VAN
AQ370	13	1:1:1 Aqua Regia digestion ICP-ES analysis	1	Completed	VAN

ADDITIONAL COMMENTS

Version 2 : AQ370-Mo Cu Pb Zn Ag included.



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.

*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



BUREAU MINERAL LABORATORIES
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Project: Red Ridge

Report Date: August 29, 2017

Page: 2 of 4

Part: 1 of 3

CERTIFICATE OF ANALYSIS

WHI17000348.2

Method		WGHT	FA350	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001
611332	Rock	0.72	6	11	106	10	25	<0.3	17	30	669	7.70	7	2	117	<0.5	<3	<3	84	0.43	0.228
611333	Rock	1.66	12	16	146	7	17	0.4	30	8	121	2.66	4	3	126	<0.5	<3	<3	108	1.18	0.181
611334	Rock	1.33	11	36	483	22	24	0.7	20	10	166	2.91	17	<2	26	0.7	12	<3	59	0.36	0.096
611551	Rock	1.10	554	16	1027	>10000	52	>100	4	1	66	2.34	656	<2	15	1.1	25	154	14	0.05	0.016
611553	Rock	1.01	14	13	138	52	28	0.8	30	9	183	3.46	6	3	34	<0.5	<3	<3	206	0.46	0.105
611554	Rock	0.91	147	2	277	148	32	4.0	8	5	160	3.53	8	<2	37	<0.5	<3	<3	84	0.52	0.043
611555	Rock	1.45	2	2	76	4	70	<0.3	10	6	157	3.07	35	<2	230	1.2	<3	<3	26	1.27	0.050
611574	Rock	0.68	1466	6	609	>10000	>10000	>100	35	11	>10000	5.54	333	2	16	221.4	23	<3	56	0.18	0.025
611575	Rock	1.31	5	<1	61	28	70	1.0	31	11	686	2.11	5	<2	57	<0.5	<3	<3	34	2.01	0.084
611576	Rock	0.72	6390	44	1149	>10000	793	>100	2	<1	106	4.45	>10000	<2	20	11.3	748	<3	8	0.02	0.033
611577	Rock	0.88	11	<1	16	123	61	2.5	25	7	1964	5.55	43	<2	233	0.9	<3	<3	24	8.94	0.047
611578	Rock	1.22	20	<1	56	138	140	6.5	41	14	3599	3.13	93	<2	49	1.5	<3	<3	34	0.87	0.102
611579	Rock	1.04	4	<1	54	15	66	<0.3	36	18	1032	4.11	7	5	198	<0.5	<3	<3	104	3.25	0.337
611469	Rock	0.60	14	<1	819	46	63	3.4	38	10	555	2.47	10	2	50	<0.5	<3	<3	82	1.86	0.080
611470	Rock	0.21	103	3	94	993	3788	44.6	38	11	7505	2.35	109	3	17	31.8	7	<3	22	0.36	0.092
611471	Rock	0.19	7	<1	700	12	69	1.1	44	13	740	2.80	8	4	29	0.7	<3	<3	81	0.44	0.081
611472	Rock	0.20	104	1	36	463	857	7.5	22	9	1657	2.97	1117	4	31	9.1	5	<3	11	0.22	0.083
611473	Rock	0.16	1800	13	674	>10000	2202	>100	11	4	534	4.79	922	2	9	24.5	34	<3	10	0.12	0.069
611301	Rock	0.95	15	2	16	48	93	0.9	12	7	1219	2.04	26	<2	155	0.6	3	3	45	8.50	0.094
611302	Rock	1.26	49	150	403	955	1037	4.4	3	2	149	1.00	43	<2	13	11.5	8	<3	15	0.32	0.009
611303	Rock	1.05	<2	2	7	4	23	<0.3	<1	<1	228	1.27	5	3	77	<0.5	<3	<3	2	0.71	0.029
611304	Rock	0.89	8	2	16	7	35	<0.3	<1	<1	391	1.43	13	4	113	<0.5	<3	<3	6	0.89	0.038
611305	Rock	0.47	196	2	>10000	2686	658	>100	25	9	456	2.58	554	3	209	91.3	>2000	293	31	0.20	0.053
611306	Rock	1.06	36	2	1117	1165	>10000	77.1	12	5	2938	2.10	68	3	7	404.7	31	<3	6	0.19	0.081
611307	Rock	0.96	12	9	2210	6	195	8.9	7	3	319	0.95	6	<2	9	1.6	6	<3	12	0.24	0.023
611308	Rock	1.35	5	4	43	7	67	0.3	29	11	903	2.98	20	2	161	0.6	<3	4	91	3.16	0.117
611309	Rock	1.15	5	3	40	4	33	0.3	19	7	656	2.02	11	2	158	<0.5	<3	<3	61	4.15	0.087
611310	Rock	1.06	<2	2	9	5	33	0.3	2	1	327	1.39	20	3	129	<0.5	<3	<3	2	1.09	0.028
611311	Rock	0.43	8	<1	21	8	77	0.8	2	<1	128	1.81	2	2	37	<0.5	4	<3	31	0.25	0.063
611312	Rock	1.37	16	17	9	12	255	0.6	15	3	1447	1.76	42	<2	434	5.0	<3	<3	54	15.60	0.025



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	FA550	AQ370	AQ370	AQ370	AQ370
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	Au	Mo	Cu	Pb	Zn
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	gm/t	%	%	%	%
		1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	0.9	0.001	0.001	0.01	0.01
611332	Rock	4	38	0.27	68	0.226	<20	1.12	0.10	0.10	<2	0.69	<1	<5	14	<5					
611333	Rock	11	28	0.29	52	0.116	<20	1.15	0.17	0.18	<2	1.90	<1	<5	<5	<5					
611334	Rock	6	24	0.35	24	0.068	<20	0.73	0.04	0.07	>100	0.73	<1	<5	<5	<5					
611551	Rock	1	9	0.06	17	0.014	<20	0.15	0.01	0.05	>100	0.38	<1	<5	<5	<5		0.002	0.101	1.50	<0.01
611553	Rock	9	50	0.60	39	0.150	<20	0.96	0.08	0.22	<2	0.55	<1	<5	8	8					
611554	Rock	2	23	0.33	12	0.050	<20	1.13	0.11	0.23	>100	0.69	1	<5	7	<5					
611555	Rock	4	8	0.17	35	0.037	<20	2.32	0.28	0.06	8	0.75	<1	<5	10	<5					
611574	Rock	3	40	1.49	57	0.004	<20	1.97	<0.01	0.11	<2	0.19	<1	<5	7	<5	<0.001	0.059	1.82	3.73	
611575	Rock	11	44	0.87	258	0.003	<20	1.13	0.04	0.24	<2	<0.05	<1	<5	<5	6					
611576	Rock	2	13	<0.01	31	<0.001	<20	0.20	<0.01	0.05	<2	1.22	<1	<5	<5	<5		0.004	0.116	>4	0.08
611577	Rock	4	15	3.51	125	<0.001	<20	0.53	0.02	0.14	<2	0.08	<1	<5	<5	<5					
611578	Rock	13	30	0.69	452	<0.001	<20	1.12	0.02	0.21	<2	<0.05	<1	<5	<5	7					
611579	Rock	29	32	2.05	365	0.003	<20	1.86	0.04	0.23	<2	<0.05	<1	<5	<5	10					
611469	Rock	9	120	1.61	114	0.031	<20	1.31	0.04	0.20	<2	<0.05	<1	<5	5	7					
611470	Rock	10	15	0.20	781	<0.001	<20	0.56	<0.01	0.32	<2	<0.05	<1	<5	<5	<5					
611471	Rock	12	116	1.55	101	0.007	<20	1.37	0.04	0.10	<2	<0.05	<1	<5	<5	7					
611472	Rock	11	10	0.08	524	<0.001	<20	0.45	<0.01	0.29	<2	0.06	<1	<5	<5	<5					
611473	Rock	7	12	0.24	69	<0.001	<20	0.55	<0.01	0.23	<2	0.25	<1	<5	<5	<5		0.001	0.066	1.92	0.21
611301	Rock	8	17	1.26	89	0.043	<20	1.22	0.06	0.45	<2	0.55	<1	<5	<5	<5					
611302	Rock	2	2	0.06	10	0.004	<20	0.16	<0.01	0.05	<2	0.14	<1	<5	<5	<5					
611303	Rock	7	<1	0.15	62	0.023	<20	0.70	0.10	0.16	<2	0.25	<1	<5	<5	<5					
611304	Rock	7	<1	0.28	82	0.017	<20	1.35	0.20	0.17	<2	0.38	<1	<5	<5	<5					
611305	Rock	6	48	0.96	666	0.006	<20	0.96	0.02	0.13	3	0.50	7	<5	<5	<5	<0.001	2.150	0.27	0.06	
611306	Rock	7	2	0.06	166	<0.001	<20	0.41	<0.01	0.25	<2	0.13	<1	<5	<5	<5	<0.001	0.114	0.12	3.11	
611307	Rock	3	10	0.23	58	<0.001	<20	0.37	0.01	0.08	<2	0.09	<1	<5	<5	<5					
611308	Rock	7	26	1.65	173	0.098	<20	3.00	0.21	0.71	<2	0.56	<1	<5	11	6					
611309	Rock	5	30	1.22	89	0.062	<20	1.62	0.14	0.43	<2	0.67	<1	<5	6	6					
611310	Rock	7	<1	0.17	70	0.010	<20	1.02	0.17	0.15	<2	0.60	<1	<5	<5	<5					
611311	Rock	3	9	0.48	114	0.100	<20	0.67	0.05	0.08	<2	0.21	<1	<5	6	<5					
611312	Rock	8	4	0.44	32	0.012	<20	0.67	<0.01	0.05	<2	0.08	<1	<5	<5	<5					



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	Method	AQ370
Analyte	Ag	
Unit	gm/t	
MDL	2	
611332	Rock	
611333	Rock	
611334	Rock	
611551	Rock	141
611553	Rock	
611554	Rock	
611555	Rock	
611574	Rock	402
611575	Rock	
611576	Rock	>1000
611577	Rock	
611578	Rock	
611579	Rock	
611469	Rock	
611470	Rock	
611471	Rock	
611472	Rock	
611473	Rock	242
611301	Rock	
611302	Rock	
611303	Rock	
611304	Rock	
611305	Rock	>1000
611306	Rock	80
611307	Rock	
611308	Rock	
611309	Rock	
611310	Rock	
611311	Rock	
611312	Rock	



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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL		WGHT	FA350	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	2	1	1	3	1	0.3	1	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
611313	Rock	1.24	29	46	86	19	524	0.4	277	43	1113	6.80	76	3	181	4.4	6	<3	81	3.37	0.130
611314	Rock	1.13	4	<1	14	63	277	0.9	43	20	420	2.37	90	<2	183	5.4	4	<3	13	4.79	0.053
611315	Rock	0.76	3	2	4	18	8	<0.3	1	<1	23	0.54	5	2	75	<0.5	<3	<3	4	0.08	0.029
611316	Rock	2.60	1832	15	160	678	6733	11.2	307	34	>10000	5.81	280	<2	353	102.5	19	<3	52	11.54	0.113
611317	Rock	0.81	690	1	751	291	941	>100	19	15	5851	1.21	72	<2	231	65.0	12	<3	5	7.63	0.007
611318	Rock	1.91	1945	1	40	641	544	5.1	2	<1	2544	2.07	210	3	68	5.8	<3	<3	2	0.12	0.021
611319	Rock	0.39	>10000	5	412	>10000	691	87.2	1	<1	529	7.31	1270	<2	33	3.8	8	<3	2	0.04	0.024
611320	Rock	1.04	2047	<1	134	293	311	3.6	<1	<1	63	1.19	114	<2	15	4.1	<3	<3	<1	0.02	0.010
611321	Rock	0.83	1666	2	1365	>10000	>10000	>100	17	6	1108	4.81	1158	2	30	399.5	374	<3	28	0.47	0.057
611322	Rock	2.47	102	22	201	174	2629	15.7	16	7	1565	3.55	313	<2	84	21.9	12	5	8	0.10	0.059
611323	Rock	0.86	324	3	45	526	1314	21.8	5	<1	84	4.97	688	<2	26	8.8	18	4	6	0.06	0.035
611324	Rock	1.10	229	439	343	714	791	>100	6	<1	127	2.27	242	<2	39	9.2	399	25	5	0.03	0.024
611325	Rock	0.90	71	37	33	25	84	2.7	58	15	1215	3.98	356	<2	77	<0.5	<3	<3	51	2.17	0.150
611326	Rock	1.02	26	72	682	8	25	1.7	5	13	312	6.43	21	<2	10	<0.5	<3	<3	117	0.19	0.122
611327	Rock	0.90	24	24	99	9	30	1.1	9	11	267	3.09	15	<2	8	<0.5	<3	<3	67	0.11	0.046
611328	Rock	0.73	69	152	30	24	27	0.8	10	10	391	7.02	351	<2	21	<0.5	3	<3	103	0.14	0.044
611329	Rock	0.85	37	7	28	83	57	1.6	30	15	493	4.19	49	<2	148	<0.5	<3	<3	16	0.96	0.066
611330	Rock	0.58	8	23	32	9	40	0.9	16	7	464	1.59	51	<2	65	<0.5	<3	<3	7	5.67	0.044
611331	Rock	0.67	4	3	589	5	25	2.4	11	4	927	1.49	7	<2	49	<0.5	<3	<3	23	3.21	0.046
611552	Rock	1.11	89	30	>10000	1190	752	43.0	31	12	456	3.79	25	<2	29	7.5	13	19	152	0.70	0.218
611556	Rock	1.01	35	<1	44	7	6	<0.3	<1	<1	369	0.09	<2	<2	91	3.3	<3	<3	1	38.88	0.014
611572	Rock	0.72	358	2	>10000	6	88	14.8	122	23	565	5.71	6	<2	186	2.5	<3	<3	65	3.76	0.230
611573	Rock	1.02	9	5	184	7	41	0.4	15	7	953	1.74	33	2	784	<0.5	<3	<3	24	12.86	0.075
611580	Rock	1.28	198	<1	14	126	111	1.1	<1	<1	1291	2.22	212	4	22	<0.5	<3	<3	2	0.04	0.020
611581	Rock	0.76	6	<1	11	15	30	0.4	13	6	554	1.59	10	<2	26	<0.5	<3	<3	17	0.42	0.083
611582	Rock	1.20	561	<1	594	1693	3220	47.5	5	6	4963	1.89	347	<2	13	23.1	18	<3	10	0.16	0.061
611583	Rock	1.26	320	4	6	503	33	1.1	<1	6	231	2.57	37	8	109	<0.5	<3	<3	4	0.13	0.045
611584	Rock	1.49	215	7	9	431	39	1.4	<1	6	223	3.85	63	6	132	<0.5	<3	<3	3	0.09	0.043
611585	Rock	1.09	2	8	33	10	37	<0.3	48	18	1702	4.30	10	<2	1025	<0.5	<3	<3	68	18.18	0.088
611586	Rock	1.86	7	>2000	2405	4	8	<0.3	6	2	106	0.59	<2	<2	12	<0.5	<3	<3	14	0.20	0.005



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	Au	Mo	Cu	Pb	Zn
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	gm/t	%	%	%	%
		1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	0.9	0.001	0.001	0.01	0.01
611313	Rock	22	27	1.10	73	0.003	<20	2.58	0.01	0.28	<2	0.24	<1	<5	<5	<5					
611314	Rock	4	2	0.02	42	0.017	<20	0.80	0.10	0.14	<2	0.71	<1	<5	<5	<5					
611315	Rock	4	<1	0.04	94	0.009	<20	0.41	0.03	0.19	<2	0.07	<1	<5	<5	<5					
611316	Rock	8	282	1.67	439	0.002	<20	1.85	<0.01	0.26	<2	0.29	<1	<5	<5	11					
611317	Rock	4	5	0.29	147	<0.001	<20	0.37	<0.01	0.06	<2	0.15	<1	<5	<5	<5		<0.001	0.072	0.03	0.09
611318	Rock	19	2	0.12	130	<0.001	<20	0.77	<0.01	0.45	<2	0.10	<1	<5	<5	<5					
611319	Rock	6	2	0.01	25	0.001	<20	0.32	<0.01	0.16	<2	1.22	<1	<5	<5	<5	22.3	<0.001	0.039	>4	0.07
611320	Rock	3	1	0.01	22	<0.001	<20	0.17	<0.01	0.09	<2	<0.05	<1	<5	<5	<5					
611321	Rock	3	41	0.98	201	0.030	<20	1.71	0.02	0.70	<2	0.65	<1	<5	<5	<5		<0.001	0.133	1.97	2.91
611322	Rock	8	11	0.12	121	<0.001	<20	0.64	<0.01	0.42	<2	0.23	<1	<5	<5	<5					
611323	Rock	4	7	0.03	40	<0.001	<20	0.35	<0.01	0.23	<2	0.08	<1	<5	<5	<5					
611324	Rock	5	4	0.04	37	<0.001	<20	0.20	<0.01	0.09	<2	0.13	<1	<5	<5	<5		0.044	0.031	0.07	0.08
611325	Rock	12	59	1.20	35	0.002	<20	1.43	<0.01	0.26	<2	<0.05	<1	<5	<5	6					
611326	Rock	6	5	0.97	19	0.011	<20	1.49	0.05	0.08	<2	0.11	<1	<5	6	6					
611327	Rock	5	3	0.78	23	0.009	<20	1.10	0.02	0.13	<2	0.11	<1	<5	<5	<5					
611328	Rock	1	9	0.83	23	0.098	<20	1.11	<0.01	0.27	<2	0.26	<1	<5	<5	5					
611329	Rock	8	22	0.45	911	0.001	<20	1.33	<0.01	0.48	<2	0.10	<1	<5	<5	<5					
611330	Rock	7	4	0.06	111	<0.001	<20	0.45	0.03	0.25	<2	<0.05	<1	<5	<5	<5					
611331	Rock	7	21	0.24	110	0.002	<20	0.49	0.07	0.13	<2	0.13	<1	<5	<5	<5					
611552	Rock	13	63	1.04	58	0.101	<20	1.98	0.05	0.25	5	0.50	<1	<5	<5	7		0.003	1.472	0.11	0.07
611556	Rock	<1	<1	0.02	15	0.001	<20	0.23	0.02	<0.01	<2	<0.05	<1	<5	<5	<5					
611572	Rock	7	16	0.30	11	0.117	<20	1.14	0.02	0.01	5	3.92	<1	<5	6	<5		<0.001	1.290	<0.01	<0.01
611573	Rock	6	13	0.53	78	0.026	<20	0.82	0.09	0.19	<2	0.94	<1	<5	<5	<5					
611580	Rock	20	<1	0.06	49	0.002	<20	0.67	<0.01	0.36	<2	0.25	<1	<5	<5	<5					
611581	Rock	7	5	0.35	261	0.032	<20	1.09	0.02	0.37	<2	<0.05	<1	<5	<5	<5					
611582	Rock	10	5	0.35	189	0.012	<20	0.92	<0.01	0.37	<2	0.07	<1	<5	<5	<5					
611583	Rock	17	1	0.13	206	0.002	<20	0.75	0.08	0.35	<2	0.20	<1	<5	<5	<5					
611584	Rock	15	<1	0.06	199	0.002	<20	0.63	0.11	0.33	<2	0.31	<1	<5	<5	<5					
611585	Rock	10	34	2.18	2093	0.007	<20	1.86	<0.01	0.16	<2	0.14	<1	<5	<5	8					
611586	Rock	1	7	0.11	42	<0.001	<20	0.11	<0.01	0.01	<2	<0.05	1	<5	<5	<5		0.304	0.231	<0.01	<0.01



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Client: **Aurora Geosciences Ltd. (Whitehorse)**

34A Laberge Road

Whitehorse Yukon Y1A 5Y9 Canada

Project: Red Ridge

Report Date: August 29, 2017

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CERTIFICATE OF ANALYSIS

WHI17000348.2

	Method	AQ370
Analyte	Ag	
Unit	gm/t	
MDL	2	
611313	Rock	
611314	Rock	
611315	Rock	
611316	Rock	
611317	Rock	158
611318	Rock	
611319	Rock	85
611320	Rock	
611321	Rock	508
611322	Rock	
611323	Rock	
611324	Rock	223
611325	Rock	
611326	Rock	
611327	Rock	
611328	Rock	
611329	Rock	
611330	Rock	
611331	Rock	
611552	Rock	42
611556	Rock	
611572	Rock	13
611573	Rock	
611580	Rock	
611581	Rock	
611582	Rock	
611583	Rock	
611584	Rock	
611585	Rock	
611586	Rock	<2



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Report Date: August 29, 2017

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CERTIFICATE OF ANALYSIS

WHI17000348.2

	Method Analyte Unit MDL	WGHT	FA350	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001
611474	Rock	0.38	130	16	2501	38	33	4.4	31	10	392	2.38	3	<2	61	0.5	<3	114	69	1.02	0.069
611475	Rock	0.84	9	9	514	<3	33	1.9	21	16	702	4.54	5	2	31	<0.5	<3	<3	43	0.61	0.055
611476	Rock	1.26	6	18	39	21	57	0.9	6	6	300	3.68	33	4	50	<0.5	<3	<3	12	0.66	0.084



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CERTIFICATE OF ANALYSIS

WHI17000348.2

	Method Analyte Unit MDL	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	FA550	AQ370	AQ370	AQ370	AQ370
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	Au	Mo	Cu	Pb	Zn
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	gm/t	%	%	%	%
		1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	0.9	0.001	0.001	0.01	0.01
611474	Rock	9	87	1.39	198	0.047	<20	1.38	0.06	0.27	<2	0.12	<1	<5	6	5					
611475	Rock	7	40	0.71	175	0.026	<20	0.98	0.07	0.13	<2	<0.05	<1	<5	<5	<5					
611476	Rock	17	1	0.33	101	<0.001	<20	0.99	0.03	0.29	<2	0.05	<1	<5	<5	<5					



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CERTIFICATE OF ANALYSIS

WHI17000348.2

Method		AQ370
Analyte		Ag
Unit		gm/t
MDL		2
611474	Rock	
611475	Rock	
611476	Rock	



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QUALITY CONTROL REPORT

WHI17000348.2

	Method Analyte Unit MDL	WGHT	FA350	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001
Pulp Duplicates																					
611576	Rock	0.72	6390	44	1149	>10000	793	>100	2	<1	106	4.45	>10000	<2	20	11.3	748	<3	8	0.02	0.033
REP 611576	QC			46	1149	>10000	793	>100	2	<1	107	4.46	>10000	<2	20	11.3	749	<3	7	0.02	0.033
REP 611306	QC																				
611308	Rock	1.35	5	4	43	7	67	0.3	29	11	903	2.98	20	2	161	0.6	<3	4	91	3.16	0.117
REP 611308	QC	4																			
REP 611584	QC	123																			
611474	Rock	0.38	130	16	2501	38	33	4.4	31	10	392	2.38	3	<2	61	0.5	<3	114	69	1.02	0.069
REP 611474	QC			14	2495	35	33	4.5	32	10	392	2.38	4	<2	61	<0.5	<3	121	69	1.03	0.069
Core Reject Duplicates																					
611306	Rock	1.06	36	2	1117	1165	>10000	77.1	12	5	2938	2.10	68	3	7	404.7	31	<3	6	0.19	0.081
DUP 611306	QC		34	2	1095	1093	>10000	70.5	12	5	2867	2.02	63	2	7	394.9	36	<3	5	0.19	0.079
611584	Rock	1.49	215	7	9	431	39	1.4	<1	6	223	3.85	63	6	132	<0.5	<3	<3	3	0.09	0.043
DUP 611584	QC		123	7	9	435	37	1.3	<1	6	224	3.82	63	6	125	<0.5	<3	<3	3	0.09	0.042
Reference Materials																					
STD AGPROOF	Standard																				
STD CDN-ME-9A	Standard																				
STD CDN-ME-14A	Standard																				
STD DS11	Standard			14	159	145	355	2.0	85	14	1080	3.33	46	7	69	2.1	7	11	52	1.04	0.075
STD DS11	Standard			13	144	129	342	2.2	79	11	1061	3.09	43	7	63	2.2	6	10	49	1.03	0.070
STD OREAS45EA	Standard			3	760	13	33	0.5	437	58	449	26.36	12	8	4	<0.5	<3	<3	333	0.04	0.033
STD OREAS45EA	Standard			1	700	20	30	<0.3	367	48	412	22.39	9	9	3	1.8	<3	<3	301	0.03	0.030
STD OXC145	Standard		217																		
STD OXC145	Standard		210																		
STD OXC145	Standard		204																		
STD OXH122	Standard		1250																		
STD OXH122	Standard		1193																		
STD SP49	Standard																				
STD SQ70	Standard																				



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34A Laberge Road

Whitehorse Yukon Y1A 5Y9 Canada

Project: Red Ridge

Report Date: August 29, 2017

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QUALITY CONTROL REPORT

WHI17000348.2

	Method Analyte Unit MDL	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	FA550	AQ370	AQ370	AQ370	AQ370	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	Au	Mo	Cu	Pb	Zn	
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	gm/t	%	%	%	%	
		1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	0.9	0.001	0.001	0.01	0.01	
Pulp Duplicates																						
611576	Rock	2	13	<0.01	31	<0.001	<20	0.20	<0.01	0.05	<2	1.22	<1	<5	<5	<5		0.004	0.116	>4	0.08	
REP 611576	QC	1	13	0.01	32	<0.001	<20	0.19	<0.01	0.05	<2	1.23	<1	<5	<5	<5						
REP 611306	QC																	<0.001	0.114	0.11	3.14	
611308	Rock	7	26	1.65	173	0.098	<20	3.00	0.21	0.71	<2	0.56	<1	<5	11	6						
REP 611308	QC																					
REP 611584	QC																					
611474	Rock	9	87	1.39	198	0.047	<20	1.38	0.06	0.27	<2	0.12	<1	<5	6	5						
REP 611474	QC	9	86	1.38	196	0.046	<20	1.38	0.06	0.27	<2	0.12	<1	<5	<5	5						
Core Reject Duplicates																						
611306	Rock	7	2	0.06	166	<0.001	<20	0.41	<0.01	0.25	<2	0.13	<1	<5	<5	<5		<0.001	0.114	0.12	3.11	
DUP 611306	QC	7	2	0.06	160	<0.001	<20	0.39	<0.01	0.25	<2	0.12	<1	<5	<5	<5		<0.001	0.115	0.11	3.14	
611584	Rock	15	<1	0.06	199	0.002	<20	0.63	0.11	0.33	<2	0.31	<1	<5	<5	<5						
DUP 611584	QC	15	<1	0.06	198	0.002	<20	0.63	0.10	0.33	<2	0.31	<1	<5	<5	<5						
Reference Materials																						
STD AGPROOF	Standard																	<0.9				
STD CDN-ME-9A	Standard																		<0.001	0.668	<0.01	0.01
STD CDN-ME-14A	Standard																		0.001	1.229	0.49	2.93
STD DS11	Standard	18	60	0.90	452	0.094	<20	1.20	0.08	0.41	3	0.29	<1	<5	<5	<5						
STD DS11	Standard	16	54	0.83	432	0.086	<20	1.09	0.06	0.38	3	0.28	<1	<5	<5	<5						
STD OREAS45EA	Standard	8	969	0.11	158	0.111	<20	3.73	0.02	0.06	<2	<0.05	<1	11	<5	94						
STD OREAS45EA	Standard	7	822	0.10	143	0.097	<20	3.21	0.02	0.05	<2	<0.05	<1	<5	30	85						
STD OXC145	Standard																					
STD OXC145	Standard																					
STD OXC145	Standard																					
STD OXH122	Standard																					
STD OXH122	Standard																					
STD SP49	Standard																	18.4				
STD SQ70	Standard																	40.0				



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Project: Red Ridge

Report Date: August 29, 2017

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QUALITY CONTROL REPORT

WHI17000348.2

	Method	AQ370
Analyte	Ag	
Unit	gm/t	
MDL	2	
Pulp Duplicates		
611576	Rock	>1000
REP 611576	QC	
REP 611306	QC	73
611308	Rock	
REP 611308	QC	
REP 611584	QC	
611474	Rock	
REP 611474	QC	
Core Reject Duplicates		
611306	Rock	80
DUP 611306	QC	72
611584	Rock	
DUP 611584	QC	
Reference Materials		
STD AGPROOF	Standard	
STD CDN-ME-9A	Standard	4
STD CDN-ME-14A	Standard	43
STD DS11	Standard	
STD DS11	Standard	
STD OREAS45EA	Standard	
STD OREAS45EA	Standard	
STD OXC145	Standard	
STD OXC145	Standard	
STD OXC145	Standard	
STD OXH122	Standard	
STD OXH122	Standard	
STD SP49	Standard	
STD SQ70	Standard	



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QUALITY CONTROL REPORT

WHI17000348.2

		WGHT	FA350	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001
STD OREAS45EA Expected				1.6	709	14.3	31.4	0.26	381	52	400	23.51	10	10.7	3.5				303	0.036	0.029
STD DS11 Expected				13.9	156	138	345	1.71	81.9	14.2	1055	3.2082	42.8	7.65	67.3	2.37	7.2	12.2	50	1.063	0.0701
STD OXH122 Expected			1247																		
STD OXC145 Expected			212																		
STD AGPROOF Expected																					
STD SP49 Expected																					
STD SQ70 Expected																					
STD CDN-ME-9A Expected																					
STD CDN-ME-14A Expected																					
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank			<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001
BLK	Blank			<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		<2	<1	4	<3	35	<0.3	<1	2	528	1.77	<2	<2	22	<0.5	<3	<3	22	0.54	0.040
ROCK-WHI	Prep Blank		<2	<1	6	4	36	<0.3	1	2	556	1.86	<2	3	17	<0.5	<3	<3	21	0.52	0.040



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QUALITY CONTROL REPORT

WHI17000348.2

		AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	FA550	AQ370	AQ370	AQ370	AQ370	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	Au	Mo	Cu	Pb	Zn
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	gm/t	%	%	%	%
		1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	0.9	0.001	0.001	0.01	0.01
STD OREAS45EA Expected		7.06	849	0.095	148	0.0984		3.13	0.02	0.053		0.036			12.4	78					
STD DS11 Expected		18.6	61.5	0.85	417	0.0976	6	1.129	0.0694	0.4	2.9	0.2835	0.3	4.9	4.7	3.1					
STD OXH122 Expected																					
STD OXC145 Expected																					
STD AGPROOF Expected																	0				
STD SP49 Expected																	18.34				
STD SQ70 Expected																	39.62				
STD CDN-ME-9A Expected																		0.00033	0.654	0.003	0.0096
STD CDN-ME-14A Expected																		0.0015	1.24	0.488	2.97
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5					
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																<0.9				
BLK	Blank																	<0.001	<0.001	<0.01	<0.01
Prep Wash																					
ROCK-WHI	Prep Blank	4	2	0.46	55	0.072	<20	0.89	0.08	0.08	<2	<0.05	<1	<5	<5	<5					
ROCK-WHI	Prep Blank	5	3	0.48	51	0.068	<20	0.80	0.06	0.07	<2	0.05	<1	<5	<5	<5					



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Report Date: August 29, 2017

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QUALITY CONTROL REPORT

WHI17000348.2

		AQ370 Ag gm/t 2
STD OREAS45EA Expected		
STD DS11 Expected		
STD OXH122 Expected		
STD OXC145 Expected		
STD AGPROOF Expected		
STD SP49 Expected		
STD SQ70 Expected		
STD CDN-ME-9A Expected		3.3
STD CDN-ME-14A Expected		42.3
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	<2
Prep Wash		
ROCK-WHI	Prep Blank	
ROCK-WHI	Prep Blank	



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Client: **Aurora Geosciences Ltd. (Whitehorse)**

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Submitted By: Carl Schulze

Receiving Lab: Canada-Whitehorse

Received: July 24, 2017

Report Date: August 15, 2017

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CERTIFICATE OF ANALYSIS

WHI17000349.1

CLIENT JOB INFORMATION

Project: Red Ridge

Shipment ID:

P.O. Number

Number of Samples: 124

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage

STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	124	Dry at 60C			WHI
SS80	124	Dry at 60C sieve 100g to -80 mesh			WHI
SVRJT	124	Save all or part of Soil Reject			WHI
FA330	118	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
EN002	124	Environmental disposal charge-Fire assay lead waste			VAN
AQ300	123	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN
SHP01	124	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Aurora Geosciences Ltd. (Whitehorse)
34A Laberge Road
Whitehorse Yukon Y1A 5Y9
Canada

CC: Linda Dandy



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. *** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Report Date: August 15, 2017

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CERTIFICATE OF ANALYSIS

WHI17000349.1

	Method Analyte Unit MDL	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
R611251	Soil	10	<3	8	11	120	39	352	0.9	34	18	800	4.61	168	<2	120	6.6	<3	<3	109	0.63
R611252	Soil	15	<3	<2	11	109	48	440	0.6	38	17	648	5.08	419	<2	94	6.2	<3	<3	103	0.59
R611253	Soil	10	10	3	7	159	45	379	0.7	44	25	1328	3.57	125	<2	117	7.7	<3	<3	69	1.24
R611254	Soil	19	<3	4	9	160	57	412	1.2	42	19	930	4.47	279	<2	103	11.5	<3	<3	85	1.08
R611255	Soil	4	<3	<2	3	61	19	208	0.5	17	14	1086	2.03	33	<2	66	9.2	<3	<3	44	0.57
R611256	Soil	9	4	3	9	84	55	71	0.8	12	4	201	2.17	8	<2	64	1.0	<3	<3	23	0.73
R611257	Soil	13	<3	12	9	125	38	112	1.9	41	10	1035	2.56	8	<2	140	1.7	<3	<3	29	3.07
R611258	Soil	6	<3	3	3	89	15	143	0.5	13	9	717	1.50	8	<2	82	5.0	<3	<3	23	0.77
R611259	Soil	5	<3	<2	14	134	21	88	0.7	14	10	615	3.38	14	<2	74	2.0	<3	<3	45	0.40
R611260	Soil	11	<3	2	29	212	41	131	1.2	20	18	806	5.08	20	<2	146	1.7	<3	<3	85	0.63
R611261	Soil	7	<3	<2	27	151	37	112	0.6	28	12	607	3.91	58	<2	94	1.8	<3	<3	88	0.46
R611262	Soil	12	<3	3	13	102	55	156	0.3	21	12	442	2.98	47	<2	54	1.6	<3	<3	59	0.33
R611263	Soil	14	<3	<2	17	112	61	245	1.5	55	14	1565	2.06	43	<2	121	3.3	<3	<3	30	1.08
R611264	Soil	21	<3	4	63	376	46	93	1.2	31	8	316	10.16	77	3	144	<0.5	<3	<3	157	0.50
R611265	Soil	5	<3	4	5	165	23	196	1.2	19	12	1577	2.38	17	<2	59	6.1	<3	<3	39	0.40
R611266	Soil	19	4	7	19	377	96	154	1.1	35	13	604	11.23	100	<2	127	<0.5	<3	<3	155	0.47
R611267	Soil	13	<3	7	11	242	172	167	1.8	37	21	1036	5.83	41	<2	87	1.1	<3	<3	80	0.49
R611268	Soil	4	<3	3	4	90	36	122	0.7	20	15	1167	2.71	33	<2	120	2.7	<3	<3	45	0.89
R611269	Soil	9	<3	<2	3	90	38	146	1.0	22	14	1000	2.83	36	<2	99	2.9	<3	<3	52	0.66
R611270	Soil	6	<3	<2	3	90	39	144	1.0	21	14	1031	2.80	35	<2	102	2.9	<3	<3	51	0.69
R611271	Soil	42	<3	5	9	251	53	139	1.4	30	25	979	5.39	35	<2	103	2.0	<3	4	78	0.99
R611272	Soil	7	9	18	2	79	21	143	0.5	14	12	1310	1.48	6	<2	87	5.7	<3	<3	25	0.94
R611273	Soil	19	<3	<2	4	95	74	175	1.0	27	14	702	2.98	46	<2	56	2.3	<3	<3	55	0.54
R611274	Soil	332	<3	<2	4	136	99	224	0.9	41	22	880	3.71	72	<2	53	3.7	<3	<3	81	0.50
R611275	Soil	18	<3	<2	3	126	61	213	1.6	39	18	938	3.02	53	<2	58	6.1	<3	<3	52	0.69
R611276	Soil	166	<3	<2	3	115	99	191	0.6	28	18	1023	3.07	66	<2	44	3.6	<3	<3	56	0.58
R611277	Soil	29	<3	3	3	189	115	162	1.7	26	15	859	2.83	39	<2	55	3.1	<3	4	55	0.79
R611278	Soil	21	<3	2	2	86	33	175	0.5	25	16	1358	1.89	32	<2	105	4.8	<3	<3	40	1.73
R611279	Soil	11	<3	<2	2	44	62	233	<0.3	23	15	1193	3.05	55	<2	36	3.7	<3	<3	63	0.48
R611280	Soil	38	<3	<2	3	42	43	312	0.6	29	15	1310	3.17	63	<2	31	4.1	<3	<3	64	0.39



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	Method	Analyte	Unit	MDL	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300			
					P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
					%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
					0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
R611251	Soil				0.177	13	38	0.66	118	0.065	<20	2.24	0.02	0.26	2	0.12	<1	<5	<5	
R611252	Soil				0.138	14	38	0.70	93	0.044	<20	2.24	0.02	0.23	<2	0.13	<1	<5	6	
R611253	Soil				0.145	13	39	0.68	199	0.056	<20	1.59	0.02	0.25	3	0.10	<1	<5	<5	
R611254	Soil				0.127	14	35	0.71	116	0.047	<20	1.90	0.04	0.32	<2	0.12	<1	<5	5	
R611255	Soil				0.086	9	17	0.33	132	0.039	<20	1.07	0.02	0.13	<2	0.05	<1	<5	<5	
R611256	Soil				0.118	5	16	0.17	64	0.030	<20	1.53	0.03	0.11	3	0.13	<1	<5	<5	
R611257	Soil				0.179	4	37	0.20	55	0.022	<20	0.82	0.04	0.11	<2	0.32	<1	<5	<5	
R611258	Soil				0.109	5	13	0.23	176	0.021	<20	0.79	0.03	0.09	<2	0.08	<1	<5	<5	
R611259	Soil				0.115	7	19	0.34	115	0.059	<20	1.21	0.03	0.11	<2	0.15	<1	<5	<5	
R611260	Soil				0.171	13	34	0.79	223	0.120	<20	1.99	0.03	0.27	<2	0.29	<1	<5	<5	
R611261	Soil				0.105	10	35	0.77	190	0.093	<20	1.86	0.02	0.23	<2	0.14	<1	<5	<5	
R611262	Soil				0.097	9	29	0.62	119	0.052	<20	1.54	0.02	0.15	<2	0.08	<1	<5	<5	
R611263	Soil				0.156	4	68	0.20	169	0.017	<20	0.88	0.03	0.09	<2	0.19	<1	<5	<5	
R611264	Soil				0.205	12	47	0.84	112	0.110	<20	4.18	0.03	0.13	2	0.31	<1	<5	8	
R611265	Soil				0.079	8	16	0.32	206	0.037	<20	1.21	0.02	0.11	<2	0.08	<1	<5	<5	
R611266	Soil				0.260	12	44	0.92	113	0.112	<20	3.25	0.04	0.20	3	0.40	<1	<5	8	
R611267	Soil				0.198	9	43	0.46	97	0.051	<20	2.06	0.03	0.12	<2	0.27	<1	<5	<5	
R611268	Soil				0.111	8	21	0.49	249	0.040	<20	1.31	0.02	0.18	<2	0.09	<1	<5	<5	
R611269	Soil				0.096	8	25	0.54	204	0.048	<20	1.52	0.02	0.14	<2	0.08	<1	<5	<5	
R611270	Soil				0.097	8	23	0.53	209	0.047	<20	1.48	0.02	0.14	<2	0.08	<1	<5	<5	
R611271	Soil				0.166	9	24	0.50	99	0.036	<20	2.33	0.02	0.11	2	0.14	<1	<5	5	
R611272	Soil				0.081	5	11	0.21	210	0.027	<20	0.70	0.03	0.07	<2	0.07	<1	<5	<5	
R611273	Soil				0.086	11	31	0.69	84	0.066	<20	1.83	0.02	0.21	<2	<0.05	<1	<5	<5	
R611274	Soil				0.093	9	39	0.84	95	0.067	<20	2.20	0.02	0.18	<2	0.05	<1	<5	5	
R611275	Soil				0.075	11	30	0.72	101	0.060	<20	1.84	0.03	0.23	<2	<0.05	<1	<5	<5	
R611276	Soil				0.083	10	29	0.77	93	0.057	<20	1.68	0.02	0.18	<2	<0.05	<1	<5	<5	
R611277	Soil				0.090	10	24	0.66	92	0.060	<20	1.68	0.03	0.17	<2	<0.05	<1	<5	<5	
R611278	Soil				0.110	5	15	0.32	204	0.017	<20	0.93	0.04	0.13	<2	0.12	<1	<5	<5	
R611279	Soil				0.074	8	29	0.72	155	0.053	<20	1.39	0.01	0.15	<2	<0.05	<1	<5	<5	
R611280	Soil				0.075	9	33	0.78	164	0.062	<20	1.76	0.01	0.14	<2	<0.05	<1	<5	<5	



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	Method	Analyte	Unit	MDL	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300			
					Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
					ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
					2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
R611281	Soil		10	<3	<2	2	32	55	371	<0.3	23	16	1614	2.92	48	<2	25	6.0	<3	<3	53	0.41		
R611282	Soil		12	<3	<2	3	82	77	242	0.5	30	15	1052	2.90	80	<2	40	4.1	<3	<3	54	0.64		
R611283	Soil		8	<3	3	2	57	81	504	0.5	26	14	1529	2.58	71	<2	29	7.8	<3	<3	46	0.42		
R611284	Soil		9	<3	4	2	67	77	364	0.7	25	12	1801	2.35	61	<2	56	9.9	<3	<3	40	1.14		
R611285	Soil		6	<3	<2	2	40	44	301	0.5	17	12	1560	1.96	30	<2	27	6.7	<3	<3	35	0.36		
R611286	Soil		19	9	3	3	46	79	254	0.5	21	11	1347	2.44	54	<2	35	4.3	<3	<3	45	0.53		
R611287	Soil		9	5	5	5	49	50	501	0.5	41	16	1192	2.76	57	<2	56	11.3	<3	<3	45	0.86		
R611288	Soil		5	5	3	2	25	74	432	0.6	18	10	1041	2.86	49	2	23	4.9	<3	<3	55	0.40		
R611289	Soil		7	4	3	2	30	52	313	0.6	20	10	905	2.53	56	3	29	2.8	<3	<3	43	0.50		
R611290	Soil		9	4	3	3	29	43	320	<0.3	21	11	907	2.48	64	3	30	4.0	<3	<3	47	0.47		
R611291	Soil		10	7	4	2	28	45	307	<0.3	21	11	888	2.50	65	3	29	3.5	<3	<3	47	0.46		
R611292	Soil		4	3	5	2	23	90	432	0.9	18	10	1093	2.23	58	2	22	4.0	<3	<3	36	0.31		
R611293	Soil		3	<3	3	2	33	35	299	0.4	15	8	1019	1.58	43	<2	34	5.0	<3	<3	24	0.61		
R611294	Soil		2	7	<2	2	16	20	133	<0.3	15	8	475	2.33	35	3	21	0.6	<3	<3	40	0.27		
R611295	Soil		5	7	2	2	26	49	306	0.4	20	10	859	2.36	56	2	23	2.8	<3	<3	43	0.31		
R611296	Soil		7	5	<2	3	27	60	1129	0.5	22	10	600	2.54	64	4	40	2.3	<3	<3	47	0.49		
R611351	Soil		7	10	4	7	110	33	568	0.6	28	20	1594	3.79	188	<2	150	21.9	<3	<3	79	1.16		
R611352	Soil		7	9	8	3	47	12	387	0.3	13	10	958	1.53	72	<2	138	13.4	<3	<3	31	1.48		
R611353	Soil		10	<3	5	7	119	40	492	1.2	30	20	1312	4.32	217	<2	143	9.3	<3	<3	58	1.84		
R611354	Soil		10	<3	6	3	57	14	418	0.5	13	9	771	1.85	52	<2	194	11.6	<3	<3	32	2.40		
R611355	Soil		7	11	6	3	68	25	243	0.6	14	16	1432	2.60	27	<2	154	6.4	<3	<3	41	1.60		
R611356	Soil		35	<3	19	49	442	57	143	2.0	38	11	356	14.86	113	5	157	<0.5	<3	<3	139	0.72		
R611357	Soil		12	10	8	16	234	34	99	1.0	27	14	539	5.77	46	<2	148	<0.5	<3	<3	85	0.82		
R611358	Soil		26	<3	11	86	466	40	81	2.7	19	8	336	14.70	35	4	140	<0.5	<3	<3	139	0.24		
R611359	Soil		19	7	9	7	129	16	257	1.1	17	18	999	2.34	11	<2	193	6.9	<3	<3	31	1.89		
R611360	Soil		13	<3	3	16	183	25	99	1.3	20	10	809	3.12	13	<2	180	1.2	<3	<3	52	1.27		
R611361	Soil		20	6	9	14	167	64	181	0.7	37	18	785	3.39	62	2	75	2.1	<3	<3	67	0.78		
R611362	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.			
R611363	Soil		32	18	37	76	292	37	101	1.6	26	10	507	8.49	165	3	111	<0.5	<3	<3	126	0.44		
R611364	Soil		4	<3	3	10	49	5	34	0.8	5	4	191	1.87	25	<2	28	<0.5	<3	<3	30	0.13		



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Method Analyte Unit MDL		AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
R611281	Soil	0.063	9	29	0.68	130	0.066	<20	1.46	0.01	0.18	<2	<0.05	<1	<5	5	<5
R611282	Soil	0.100	12	33	0.84	112	0.055	<20	1.64	0.02	0.16	<2	<0.05	<1	<5	5	<5
R611283	Soil	0.080	10	30	0.74	189	0.055	<20	1.42	0.02	0.15	<2	<0.05	<1	<5	<5	<5
R611284	Soil	0.102	10	23	0.67	186	0.035	<20	1.27	0.01	0.19	<2	0.07	<1	<5	<5	<5
R611285	Soil	0.054	7	20	0.50	144	0.038	<20	1.09	0.01	0.13	<2	<0.05	<1	<5	<5	<5
R611286	Soil	0.070	10	24	0.86	139	0.043	<20	1.46	0.02	0.14	<2	<0.05	<1	<5	<5	<5
R611287	Soil	0.076	9	26	0.83	128	0.043	<20	1.53	0.02	0.17	<2	0.06	<1	<5	<5	<5
R611288	Soil	0.043	9	26	1.14	125	0.071	<20	1.72	0.01	0.21	<2	<0.05	<1	<5	5	<5
R611289	Soil	0.039	11	25	0.80	105	0.057	<20	1.33	0.02	0.26	<2	<0.05	<1	<5	<5	<5
R611290	Soil	0.031	9	33	0.86	133	0.058	<20	1.42	0.02	0.22	<2	<0.05	<1	<5	<5	<5
R611291	Soil	0.029	9	31	0.88	145	0.060	<20	1.46	0.02	0.22	<2	<0.05	<1	<5	<5	<5
R611292	Soil	0.038	8	19	0.52	117	0.054	<20	1.12	0.01	0.15	<2	<0.05	<1	<5	<5	<5
R611293	Soil	0.068	7	12	0.38	156	0.027	<20	0.81	0.02	0.13	<2	<0.05	<1	<5	<5	<5
R611294	Soil	0.031	8	23	0.52	82	0.060	<20	1.22	0.01	0.13	<2	<0.05	<1	<5	<5	<5
R611295	Soil	0.049	10	28	0.64	95	0.057	<20	1.28	0.01	0.16	<2	<0.05	<1	<5	<5	<5
R611296	Soil	0.062	12	32	0.81	110	0.059	<20	1.43	0.02	0.13	<2	<0.05	<1	<5	<5	<5
R611351	Soil	0.155	13	30	0.50	171	0.028	<20	1.68	0.03	0.15	<2	0.14	<1	<5	5	<5
R611352	Soil	0.134	10	13	0.25	143	0.021	<20	0.91	0.03	0.08	<2	0.09	<1	<5	<5	<5
R611353	Soil	0.139	11	24	0.47	130	0.030	<20	1.75	0.03	0.12	5	0.14	<1	<5	<5	<5
R611354	Soil	0.173	7	13	0.28	155	0.021	<20	0.90	0.03	0.08	<2	0.13	<1	<5	<5	<5
R611355	Soil	0.174	11	17	0.35	148	0.028	<20	1.23	0.03	0.12	4	0.09	<1	<5	<5	<5
R611356	Soil	0.326	16	48	0.52	91	0.092	<20	5.00	0.07	0.14	5	0.65	<1	<5	8	7
R611357	Soil	0.202	13	39	0.66	116	0.064	<20	2.20	0.05	0.23	<2	0.28	<1	<5	7	<5
R611358	Soil	0.381	17	56	0.68	134	0.183	<20	2.90	0.08	0.26	11	0.67	<1	<5	<5	8
R611359	Soil	0.195	6	20	0.32	138	0.027	<20	0.87	0.03	0.14	<2	0.17	<1	<5	<5	<5
R611360	Soil	0.163	19	30	0.57	249	0.075	<20	1.27	0.03	0.27	<2	0.24	<1	<5	<5	<5
R611361	Soil	0.110	11	46	0.89	137	0.067	<20	1.73	0.04	0.33	<2	0.08	<1	<5	5	<5
R611362	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
R611363	Soil	0.282	11	44	0.65	132	0.091	<20	3.06	0.05	0.15	3	0.28	<1	<5	7	6
R611364	Soil	0.068	3	10	0.18	62	0.028	<20	0.79	0.03	0.04	<2	0.09	<1	<5	<5	<5



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Method Analyte	Unit MDL	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Au ppb 2	Pt ppb 3	Pd ppb 2	Mo ppm 1	Cu ppm 1	Pb ppm 3	Zn ppm 1	Ag ppm 0.3	Ni ppm 1	Co ppm 1	Mn ppm 2	Fe % 0.01	As ppm 2	Th ppm 2	Sr ppm 1	Cd ppm 0.5	Sb ppm 3	Bi ppm 3	V ppm 1	Ca % 0.01
R611365	Soil	22	<3	2	19	293	42	110	2.8	21	9	416	6.17	47	2	100	<0.5	<3	<3	90	0.46
R611366	Soil	22	4	8	20	307	69	144	1.0	35	17	693	11.12	81	3	155	<0.5	<3	<3	176	0.57
R611367	Soil	15	4	<2	13	262	75	103	1.8	32	18	641	7.03	44	3	91	<0.5	<3	<3	99	0.36
R611368	Soil	18	4	6	12	201	31	57	1.7	15	8	305	6.51	28	2	55	<0.5	<3	<3	82	0.18
R611369	Soil	42	7	3	11	264	47	112	1.4	36	24	669	5.85	55	3	68	<0.5	<3	<3	88	0.33
R611370	Soil	16	<3	6	3	135	19	140	0.8	19	15	1016	2.44	17	<2	68	6.9	<3	<3	39	0.85
R611371	Soil	15	<3	9	5	186	31	229	0.9	25	28	1681	4.30	49	<2	106	7.9	<3	<3	72	1.27
R611372	Soil	I.S.	I.S.	I.S.	4	68	45	309	0.3	21	10	658	2.11	15	<2	118	4.9	<3	<3	29	2.28
R611373	Soil	I.S.	I.S.	I.S.	6	137	237	149	1.3	51	20	1150	3.74	58	<2	113	2.1	<3	<3	88	1.67
R611374	Soil	19	<3	9	2	69	26	141	0.7	12	9	549	1.25	12	<2	69	7.2	<3	<3	19	2.16
R611375	Soil	13	<3	3	3	64	27	185	0.4	27	13	825	3.38	30	<2	97	4.9	<3	<3	30	4.06
R611376	Soil	68	<3	7	3	211	65	160	1.1	40	17	1303	3.45	66	<2	97	3.1	<3	<3	92	1.78
R611377	Soil	29	<3	<2	4	101	38	188	0.5	39	19	1322	3.68	58	<2	101	2.8	<3	<3	86	1.93
R611502	Soil	23	<3	<2	5	105	33	105	1.3	34	13	717	3.14	22	3	87	<0.5	<3	<3	71	1.30
R611503	Soil	24	<3	5	5	103	31	104	1.4	33	14	708	3.13	23	3	85	<0.5	<3	<3	72	1.25
R611504	Soil	24	<3	<2	7	88	40	101	1.0	35	13	524	3.53	24	2	34	<0.5	<3	<3	77	0.33
R611505	Soil	8	<3	4	5	32	14	39	<0.3	11	4	118	1.83	20	2	18	<0.5	<3	<3	48	0.10
R611506	Soil	12	<3	5	3	25	21	45	0.3	9	5	302	1.64	15	<2	11	<0.5	<3	<3	38	0.08
R611507	Soil	11	<3	<2	4	55	36	81	<0.3	20	11	411	3.07	20	3	20	<0.5	<3	<3	73	0.21
R611508	Soil	14	<3	5	6	105	54	93	0.6	33	13	507	3.28	27	3	33	1.1	<3	<3	76	0.29
R611509	Soil	10	4	2	9	113	53	98	0.6	30	12	543	3.56	47	<2	34	<0.5	<3	<3	90	0.33
R611510	Soil	7	<3	3	4	21	16	30	<0.3	8	3	130	1.13	12	<2	15	0.9	<3	<3	33	0.14
R611511	Soil	60	<3	7	4	96	93	261	1.7	42	18	936	3.59	55	<2	92	3.3	<3	<3	78	1.79
R611512	Soil	27	5	4	4	92	59	114	0.8	31	12	654	2.79	25	3	60	0.6	<3	<3	68	1.22
R611513	Soil	17	9	3	4	86	55	110	0.8	30	11	616	2.67	23	<2	58	0.6	<3	<3	67	1.14
R611514	Soil	25	4	<2	2	74	39	79	0.9	20	8	466	1.94	31	<2	64	0.5	<3	<3	42	1.53
R611515	Soil	15	7	12	4	106	72	123	0.4	35	17	832	3.60	27	2	36	<0.5	<3	<3	98	0.52
R611516	Soil	11	<3	2	4	46	55	95	<0.3	27	14	819	2.66	66	<2	44	<0.5	<3	<3	79	0.59
R611517	Soil	21	6	5	5	132	58	114	0.8	39	16	759	3.37	33	<2	61	0.7	<3	<3	89	1.17
R611461	Soil	26	<3	10	4	149	52	91	0.6	43	11	521	2.82	25	<2	71	<0.5	<3	<3	75	1.41



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Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
R611365	Soil	0.200	10	31	0.77	130	0.107	<20	2.31	0.04	0.16	<2	0.25	<1	<5	<5
R611366	Soil	0.228	11	43	0.88	96	0.112	<20	3.32	0.05	0.18	<2	0.41	<1	<5	8
R611367	Soil	0.251	13	39	0.79	143	0.111	<20	2.55	0.04	0.24	<2	0.23	<1	<5	6
R611368	Soil	0.224	9	28	0.45	92	0.073	<20	2.43	0.03	0.10	<2	0.26	<1	<5	<5
R611369	Soil	0.154	11	32	0.73	104	0.081	<20	2.63	0.03	0.12	<2	0.15	<1	<5	<5
R611370	Soil	0.103	8	12	0.26	87	0.030	<20	1.11	0.03	0.08	<2	0.07	<1	<5	<5
R611371	Soil	0.143	10	22	0.43	139	0.040	<20	1.85	0.02	0.10	<2	0.10	<1	<5	<5
R611372	Soil	0.171	4	22	0.32	241	0.020	<20	0.79	0.02	0.11	<2	0.19	<1	<5	<5
R611373	Soil	0.162	8	47	0.57	79	0.033	<20	1.86	0.09	0.09	<2	0.13	<1	<5	<5
R611374	Soil	0.088	3	10	0.19	64	0.020	<20	0.62	0.03	0.07	<2	0.16	<1	<5	<5
R611375	Soil	0.123	5	16	0.24	126	0.021	<20	1.02	0.10	0.09	<2	0.49	<1	<5	<5
R611376	Soil	0.143	8	38	0.76	105	0.044	<20	2.27	0.17	0.25	<2	0.07	<1	<5	<5
R611377	Soil	0.142	9	37	0.93	129	0.034	<20	2.15	0.14	0.23	<2	0.11	<1	<5	<5
R611502	Soil	0.062	18	52	1.19	163	0.065	<20	2.63	0.03	0.15	<2	<0.05	<1	<5	6
R611503	Soil	0.057	17	51	1.19	159	0.065	<20	2.63	0.03	0.15	<2	<0.05	<1	<5	6
R611504	Soil	0.041	11	53	1.15	131	0.058	<20	2.66	0.02	0.13	<2	<0.05	<1	<5	<5
R611505	Soil	0.026	5	20	0.30	61	0.050	<20	0.75	0.02	0.07	<2	<0.05	<1	<5	<5
R611506	Soil	0.025	6	16	0.28	50	0.041	<20	0.76	0.02	0.05	<2	<0.05	<1	<5	<5
R611507	Soil	0.062	9	34	0.76	78	0.074	<20	1.55	0.01	0.07	<2	<0.05	<1	<5	<5
R611508	Soil	0.068	15	48	1.01	170	0.063	<20	2.27	0.01	0.11	<2	<0.05	<1	<5	<5
R611509	Soil	0.054	9	50	1.01	172	0.070	<20	2.04	0.01	0.11	<2	<0.05	<1	<5	<5
R611510	Soil	0.017	4	13	0.23	49	0.037	<20	0.48	0.02	0.05	<2	<0.05	<1	<5	<5
R611511	Soil	0.095	12	58	1.38	143	0.057	<20	2.20	0.05	0.11	<2	0.09	<1	<5	6
R611512	Soil	0.103	13	52	1.13	154	0.056	<20	1.67	0.03	0.10	<2	0.06	<1	<5	<5
R611513	Soil	0.102	12	49	1.11	145	0.056	<20	1.62	0.03	0.10	<2	0.05	<1	<5	<5
R611514	Soil	0.076	9	26	0.59	97	0.029	<20	1.29	0.03	0.08	<2	0.06	<1	<5	<5
R611515	Soil	0.091	12	61	1.90	130	0.102	<20	2.26	0.03	0.18	<2	<0.05	<1	<5	7
R611516	Soil	0.095	10	48	1.43	73	0.048	<20	1.52	0.02	0.10	<2	<0.05	<1	<5	<5
R611517	Soil	0.086	19	63	1.92	79	0.042	<20	2.17	0.01	0.10	<2	0.06	<1	<5	8
R611461	Soil	0.082	16	86	1.45	91	0.044	<20	1.62	0.02	0.08	<2	0.06	<1	<5	7



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	Method Analyte Unit MDL	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
R611462	Soil	I.S.	I.S.	I.S.	4	28	25	91	<0.3	17	4	316	0.99	19	<2	130	4.7	<3	<3	30	3.36
R611463	Soil	I.S.	I.S.	I.S.	4	43	29	67	0.4	16	6	349	1.16	12	<2	74	4.2	<3	<3	24	1.19
R611557	Soil	19	23	8	3	163	21	66	0.9	16	5	356	1.26	31	<2	86	1.1	3	<3	22	1.96
R611558	Soil	19	8	4	7	132	50	90	1.6	28	19	802	3.23	47	4	56	<0.5	<3	<3	55	0.66
R611559	Soil	6	<3	<2	16	127	24	32	<0.3	15	8	238	3.05	13	2	72	<0.5	<3	<3	61	0.26
R611560	Soil	16	<3	<2	7	90	46	93	0.9	33	15	450	3.56	51	3	36	<0.5	<3	<3	69	0.28
R611561	Soil	17	<3	2	5	68	36	80	1.3	23	15	417	2.50	36	<2	42	2.2	<3	<3	51	0.28
R611562	Soil	21	3	<2	7	175	55	74	1.7	26	12	397	4.54	41	2	47	<0.5	<3	<3	61	0.20
R611563	Soil	15	<3	<2	4	63	23	55	0.9	16	6	188	4.49	23	<2	51	<0.5	<3	<3	63	0.10
R611564	Soil	28	5	<2	6	82	57	153	0.8	32	17	1160	4.66	62	<2	103	1.5	<3	<3	107	1.32
R611565	Soil	21	<3	<2	5	62	46	229	0.8	53	18	758	3.97	74	<2	76	1.5	<3	<3	95	0.89
R611566	Soil	34	5	3	9	223	54	667	1.0	164	93	7133	9.13	75	<2	193	2.5	4	<3	87	1.49
R611567	Soil	12	7	2	3	33	22	60	0.4	12	4	107	1.67	13	<2	47	<0.5	<3	<3	38	0.62
R611568	Soil	17	5	5	7	111	44	244	0.7	73	29	1212	5.02	80	3	88	0.7	4	<3	91	0.76
R611569	Soil	7	<3	2	2	34	17	65	<0.3	20	10	745	1.63	24	<2	64	0.9	<3	<3	28	1.08
R611570	Soil	19	<3	9	13	112	49	294	0.5	78	23	1128	5.57	91	2	79	3.3	4	<3	70	0.78
R611571	Soil	52	<3	5	10	64	116	218	1.3	39	9	475	2.92	383	<2	118	1.1	4	<3	46	0.56
R611436	Soil	12	<3	7	9	274	17	64	<0.3	18	32	1668	2.88	12	<2	132	0.7	<3	<3	62	2.25
R611437	Soil	23	<3	23	10	828	20	70	0.5	38	65	2688	5.77	35	<2	194	<0.5	<3	<3	128	2.44
R611438	Soil	13	<3	4	5	149	17	39	<0.3	20	20	1364	2.26	9	<2	111	<0.5	<3	<3	47	0.87
R611439	Soil	8	<3	<2	2	99	9	63	<0.3	9	12	778	1.29	6	<2	66	0.9	<3	<3	27	0.93
R611440	Soil	9	<3	4	10	379	27	62	0.5	23	49	1789	4.57	24	<2	122	<0.5	<3	<3	94	0.57
R611378	Soil	8	<3	5	9	131	17	73	<0.3	66	35	1339	3.98	12	<2	106	<0.5	<3	<3	116	1.41
R611379	Soil	5	<3	3	1	36	<3	19	0.3	17	5	231	1.20	2	<2	25	<0.5	<3	<3	37	0.44
R611380	Soil	11	5	13	10	102	23	72	<0.3	45	24	1933	3.68	15	<2	64	0.8	<3	<3	93	0.91
R611381	Soil	28	<3	4	15	85	21	60	0.3	15	20	2474	4.83	40	<2	79	<0.5	<3	<3	56	1.73
R611382	Soil	51	<3	19	27	587	13	46	1.6	15	65	2397	14.63	32	<2	5	<0.5	<3	<3	181	0.12
R611383	Soil	12	11	2	6	140	11	28	<0.3	11	10	651	1.75	6	<2	37	<0.5	<3	<3	40	1.06
R611384	Soil	35	<3	19	18	609	71	67	0.8	37	58	2815	6.48	23	<2	87	<0.5	<3	<3	116	1.75
R611385	Soil	7	11	6	7	191	16	87	<0.3	18	24	1138	3.47	17	<2	83	0.8	<3	<3	93	1.41



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Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
R611462	Soil	0.093	4	23	0.33	56	0.018	<20	0.59	0.02	0.08	<2	0.23	<1	<5	<5
R611463	Soil	0.101	11	17	0.28	85	0.017	<20	0.57	0.02	0.09	<2	0.17	<1	<5	<5
R611557	Soil	0.095	14	19	0.36	69	0.015	<20	0.91	0.01	0.08	<2	0.18	<1	<5	<5
R611558	Soil	0.054	21	34	0.81	90	0.050	<20	1.72	0.02	0.13	<2	0.06	<1	<5	<5
R611559	Soil	0.087	10	35	0.76	78	0.073	<20	1.14	0.02	0.09	<2	0.11	<1	<5	6
R611560	Soil	0.089	13	44	0.95	138	0.054	<20	2.12	0.01	0.12	<2	<0.05	<1	<5	6
R611561	Soil	0.062	12	32	0.60	95	0.049	<20	1.30	0.02	0.11	<2	0.08	<1	<5	<5
R611562	Soil	0.119	11	35	0.69	120	0.059	<20	2.21	0.03	0.12	<2	0.17	<1	<5	<5
R611563	Soil	0.086	6	31	0.57	87	0.083	<20	1.72	0.03	0.15	<2	0.24	<1	<5	<5
R611564	Soil	0.077	13	39	1.01	91	0.042	<20	2.67	0.09	0.12	<2	0.10	<1	<5	8
R611565	Soil	0.108	10	38	0.92	84	0.038	<20	2.72	0.08	0.12	<2	0.07	<1	<5	7
R611566	Soil	0.136	15	34	1.03	359	0.041	<20	3.35	0.09	0.15	<2	0.15	<1	<5	5
R611567	Soil	0.053	6	12	0.15	42	0.020	<20	0.80	0.02	0.04	<2	0.08	<1	<5	<5
R611568	Soil	0.101	18	43	1.08	109	0.041	<20	2.26	0.03	0.15	<2	0.05	<1	<5	5
R611569	Soil	0.071	7	17	0.35	63	0.021	<20	0.84	0.03	0.05	<2	0.09	<1	<5	<5
R611570	Soil	0.124	14	36	0.86	102	0.044	<20	2.09	0.04	0.14	<2	0.10	<1	<5	<5
R611571	Soil	0.086	15	34	0.71	90	0.021	<20	1.39	0.03	0.14	<2	0.09	<1	<5	<5
R611436	Soil	0.102	8	20	0.78	104	0.031	<20	1.74	0.02	0.21	<2	0.11	<1	<5	5
R611437	Soil	0.093	6	33	1.60	134	0.037	<20	2.50	0.02	0.11	4	0.07	<1	<5	9
R611438	Soil	0.086	5	25	0.63	193	0.027	<20	1.19	0.02	0.09	<2	0.08	<1	<5	<5
R611439	Soil	0.060	3	11	0.35	53	0.022	<20	0.63	0.03	0.07	<2	<0.05	<1	<5	<5
R611440	Soil	0.079	9	30	0.84	102	0.040	<20	1.86	0.02	0.10	<2	<0.05	<1	<5	7
R611378	Soil	0.171	12	112	1.77	151	0.124	<20	1.99	0.02	0.30	<2	0.05	<1	<5	6
R611379	Soil	0.099	9	27	0.52	44	0.073	<20	0.80	0.04	0.06	<2	<0.05	<1	<5	<5
R611380	Soil	0.093	12	72	1.33	126	0.078	<20	2.07	0.02	0.22	<2	<0.05	<1	<5	5
R611381	Soil	0.107	11	20	0.90	134	0.021	<20	1.77	0.02	0.10	<2	0.06	<1	<5	6
R611382	Soil	0.239	11	12	1.73	10	0.017	<20	2.34	0.01	0.05	<2	0.33	<1	6	6
R611383	Soil	0.077	7	13	0.45	69	0.024	<20	1.08	0.04	0.06	<2	0.08	<1	<5	<5
R611384	Soil	0.104	11	31	1.45	109	0.023	<20	2.42	0.02	0.15	<2	0.11	<1	<5	8
R611385	Soil	0.073	5	23	0.88	72	0.022	<20	1.69	0.02	0.16	<2	0.07	<1	<5	<5



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Whitehorse Yukon Y1A 5Y9 Canada

Project: Red Ridge

Report Date: August 15, 2017

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CERTIFICATE OF ANALYSIS

WHI17000349.1

	Method Analyte Unit MDL	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V
		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1
R611386	Soil	11	5	5	3	165	16	51	0.3	19	17	757	3.08	17	2	77	<0.5	<3	<3	74
R611387	Soil	11	<3	5	3	159	16	51	0.3	19	17	760	3.12	17	2	73	<0.5	<3	<3	74
R611388	Soil	33	4	13	6	468	19	53	0.9	28	43	1552	5.65	36	<2	92	<0.5	<3	<3	127
R611389	Soil	I.S.	I.S.	I.S.	3	128	11	35	<0.3	9	13	654	1.52	10	<2	71	0.8	<3	<3	34



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WHI17000349.1

	Method Analyte Unit MDL	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
R611386	Soil	0.071	11	27	1.00	99	0.056	<20	1.67	0.03	0.12	<2	<0.05	<1	<5	5	5
R611387	Soil	0.070	12	26	1.00	102	0.057	<20	1.68	0.04	0.12	<2	<0.05	<1	<5	<5	6
R611388	Soil	0.080	9	33	1.74	77	0.026	<20	2.60	0.02	0.09	<2	0.07	<1	<5	8	11
R611389	Soil	0.084	3	11	0.37	74	0.020	<20	0.69	0.03	0.08	<2	0.15	<1	<5	<5	<5



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Report Date: August 15, 2017

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QUALITY CONTROL REPORT

WHI17000349.1

	Method Analyte Unit MDL	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V
		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1
Pulp Duplicates																				
R611262	Soil	12	<3	3	13	102	55	156	0.3	21	12	442	2.98	47	<2	54	1.6	<3	<3	59
REP R611262	QC	46	<3	3																0.33
R611266	Soil	19	4	7	19	377	96	154	1.1	35	13	604	11.23	100	<2	127	<0.5	<3	<3	155
REP R611266	QC				19	374	98	151	1.2	35	13	596	11.08	101	2	124	<0.5	4	<3	154
R611351	Soil	7	10	4	7	110	33	568	0.6	28	20	1594	3.79	188	<2	150	21.9	<3	<3	79
REP R611351	QC	10	13	14																1.16
R611355	Soil	7	11	6	3	68	25	243	0.6	14	16	1432	2.60	27	<2	154	6.4	<3	<3	41
REP R611355	QC				3	66	23	238	0.6	14	15	1407	2.50	25	<2	151	6.3	<3	<3	40
R611510	Soil	7	<3	3	4	21	16	30	<0.3	8	3	130	1.13	12	<2	15	0.9	<3	<3	33
REP R611510	QC	10	14	8																0.14
R611514	Soil	25	4	<2	2	74	39	79	0.9	20	8	466	1.94	31	<2	64	0.5	<3	<3	42
REP R611514	QC				2	76	38	79	0.9	21	8	473	1.94	30	<2	65	0.6	<3	<3	42
R611440	Soil	9	<3	4	10	379	27	62	0.5	23	49	1789	4.57	24	<2	122	<0.5	<3	<3	94
REP R611440	QC	10	3	3																0.57
R611379	Soil	5	<3	3	1	36	<3	19	0.3	17	5	231	1.20	2	<2	25	<0.5	<3	<3	37
REP R611379	QC				1	36	5	19	0.3	17	5	236	1.21	<2	<2	24	<0.5	<3	<3	37
Reference Materials																				0.43
STD CDN-PGMS-19	Standard	211	105	485																
STD CDN-PGMS-23	Standard	499	475	2020																
STD CDN-PGMS-19	Standard	196	95	449																
STD CDN-PGMS-23	Standard	530	500	2125																
STD CDN-PGMS-19	Standard	297	110	473																
STD CDN-PGMS-23	Standard	455	455	2026																
STD CDN-PGMS-19	Standard	235	111	468																
STD DS10	Standard				15	159	162	388	1.6	79	13	942	2.88	46	7	73	2.5	7	11	47
STD DS10	Standard				14	157	156	375	1.9	76	13	913	2.89	43	7	71	2.2	7	11	45
STD DS10	Standard				15	160	158	381	1.9	76	13	910	2.93	47	7	72	2.3	6	12	44
STD DS10	Standard				15	153	157	366	2.1	75	13	897	2.86	46	7	70	2.2	5	11	45



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QUALITY CONTROL REPORT

WHI17000349.1

	Method Analyte Unit MDL	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
Pulp Duplicates																	
R611262	Soil	0.097	9	29	0.62	119	0.052	<20	1.54	0.02	0.15	<2	0.08	<1	<5	<5	<5
REP R611262	QC																
R611266	Soil	0.260	12	44	0.92	113	0.112	<20	3.25	0.04	0.20	3	0.40	<1	<5	<5	8
REP R611266	QC	0.255	12	42	0.92	112	0.110	<20	3.22	0.04	0.20	4	0.39	<1	<5	<5	8
R611351	Soil	0.155	13	30	0.50	171	0.028	<20	1.68	0.03	0.15	<2	0.14	<1	<5	5	<5
REP R611351	QC																
R611355	Soil	0.174	11	17	0.35	148	0.028	<20	1.23	0.03	0.12	4	0.09	<1	<5	<5	<5
REP R611355	QC	0.171	11	18	0.34	145	0.027	<20	1.20	0.03	0.11	<2	0.09	<1	<5	<5	<5
R611510	Soil	0.017	4	13	0.23	49	0.037	<20	0.48	0.02	0.05	<2	<0.05	<1	<5	<5	<5
REP R611510	QC																
R611514	Soil	0.076	9	26	0.59	97	0.029	<20	1.29	0.03	0.08	<2	0.06	<1	<5	<5	<5
REP R611514	QC	0.075	9	25	0.59	98	0.028	<20	1.29	0.03	0.08	<2	0.06	<1	<5	<5	<5
R611440	Soil	0.079	9	30	0.84	102	0.040	<20	1.86	0.02	0.10	<2	<0.05	<1	<5	7	<5
REP R611440	QC																
R611379	Soil	0.099	9	27	0.52	44	0.073	<20	0.80	0.04	0.06	<2	<0.05	<1	<5	<5	<5
REP R611379	QC	0.096	9	26	0.53	45	0.073	<20	0.80	0.04	0.06	<2	<0.05	<1	<5	<5	<5
Reference Materials																	
STD CDN-PGMS-19	Standard																
STD CDN-PGMS-23	Standard																
STD CDN-PGMS-19	Standard																
STD CDN-PGMS-23	Standard																
STD CDN-PGMS-19	Standard																
STD CDN-PGMS-23	Standard																
STD CDN-PGMS-19	Standard																
STD DS10	Standard	0.079	18	58	0.85	443	0.087	<20	1.14	0.08	0.36	3	0.30	<1	7	<5	<5
STD DS10	Standard	0.077	18	55	0.81	432	0.083	<20	1.10	0.07	0.34	<2	0.28	<1	<5	<5	<5
STD DS10	Standard	0.078	18	54	0.82	443	0.083	<20	1.11	0.07	0.35	4	0.29	<1	<5	<5	<5
STD DS10	Standard	0.076	17	53	0.80	429	0.082	<20	1.08	0.08	0.34	3	0.28	<1	<5	<5	<5



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Project: Red Ridge

Report Date: August 15, 2017

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QUALITY CONTROL REPORT

WHI17000349.1

		FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
STD DS11	Standard				15	153	140	354	1.8	79	13	1071	3.18	43	7	69	2.2	5	10	50	1.09
STD DS11	Standard				14	149	141	346	1.8	79	14	1037	3.20	43	7	68	2.0	5	8	50	1.06
STD DS11	Standard				14	151	143	352	1.7	80	13	1064	3.27	44	8	69	2.0	5	10	50	1.08
STD DS11	Standard				14	150	144	343	1.8	80	14	1021	3.21	42	7	66	2.1	6	12	51	1.06
STD OREAS45EA	Standard				2	737	18	31	<0.3	413	56	431	23.48	6	7	4	<0.5	<3	<3	324	0.04
STD OREAS45EA	Standard				2	724	14	33	0.4	426	55	426	25.59	14	9	4	<0.5	<3	<3	322	0.03
STD OREAS45EA	Standard				2	724	14	33	0.3	426	57	429	25.47	13	9	4	<0.5	<3	<3	325	0.03
STD OREAS45EA	Standard				2	722	11	32	0.3	425	57	426	25.54	10	9	4	<0.5	<3	<3	324	0.03
STD DS10 Expected					13.6	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	7.5	67.1	2.62	9	11.65	43	1.0625
STD OREAS45EA Expected					1.6	709	14.3	31.4	0.26	381	52	400	23.51	10	10.7	3.5				303	0.036
STD DS11 Expected					13.9	156	138	345	1.71	81.9	14.2	1055	3.2082	42.8	7.65	67.3	2.37	7.2	12.2	50	1.063
STD CDN-PGMS-23 Expected		496	456	2032																	
STD CDN-PGMS-19 Expected		230	108	476																	
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank	3	<3	<2																	
BLK	Blank	2	<3	3																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	3	<3	2																	
BLK	Blank	2	<3	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	2	<3	<2																	



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Project: Red Ridge

Report Date: August 15, 2017

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QUALITY CONTROL REPORT

WHI17000349.1

		AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
STD DS11	Standard	0.072	18	59	0.89	444	0.095	<20	1.18	0.07	0.41	3	0.29	<1	6	<5	<5
STD DS11	Standard	0.072	18	59	0.86	425	0.093	<20	1.16	0.07	0.40	2	0.28	<1	<5	<5	<5
STD DS11	Standard	0.073	18	58	0.88	441	0.094	<20	1.19	0.07	0.41	3	0.28	<1	<5	<5	<5
STD DS11	Standard	0.073	18	60	0.84	428	0.092	<20	1.15	0.08	0.40	3	0.28	<1	<5	<5	<5
STD OREAS45EA	Standard	0.032	8	934	0.10	154	0.108	<20	3.61	0.02	0.06	<2	<0.05	<1	<5	10	89
STD OREAS45EA	Standard	0.031	8	932	0.10	150	0.105	<20	3.63	0.02	0.06	<2	<0.05	<1	11	7	88
STD OREAS45EA	Standard	0.031	8	943	0.10	153	0.105	<20	3.55	0.02	0.06	<2	<0.05	<1	9	13	89
STD OREAS45EA	Standard	0.032	8	932	0.10	152	0.106	<20	3.61	0.03	0.06	<2	<0.05	<1	8	12	89
STD DS10 Expected		0.0765	17.5	54.6	0.775	412	0.0817	7.13	1.0259	0.067	0.338	3.32	0.29	0.3	5.1	4.3	2.8
STD OREAS45EA Expected		0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053		0.036			12.4	78
STD DS11 Expected		0.0701	18.6	61.5	0.85	417	0.0976	6	1.129	0.0694	0.4	2.9	0.2835	0.3	4.9	4.7	3.1
STD CDN-PGMS-23 Expected																	
STD CDN-PGMS-19 Expected																	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
BLK	Blank																
BLK	Blank																
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Submitted By: Carl Schulze

Receiving Lab: Canada-Whitehorse

Received: July 24, 2017

Report Date: August 16, 2017

Page: 1 of 6

CERTIFICATE OF ANALYSIS

WHI17000350.1

CLIENT JOB INFORMATION

Project: Red Ridge

Shipment ID:

P.O. Number

Number of Samples: 138

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage

STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	100	Dry at 60C			WHI
SS80	100	Dry at 60C sieve 100g to -80 mesh			VAN
SVRJT	100	Save all or part of Soil Reject			WHI
FA330	95	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
EN002	100	Environmental disposal charge-Fire assay lead waste			VAN
AQ300	100	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN
SHP01	100	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Aurora Geosciences Ltd. (Whitehorse)
34A Laberge Road
Whitehorse Yukon Y1A 5Y9
Canada

CC: Linda Dandy



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. *** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Red Ridge

Report Date: August 16, 2017

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	Method Analyte Unit MDL	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V
		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1
R611335	Soil	12	<3	3	3	151	39	248	0.8	45	24	2365	3.50	47	<2	63	8.3	<3	<3	80
R611336	Soil	13	5	2	3	72	37	317	0.7	37	26	1535	4.01	50	<2	51	6.0	<3	<3	64
R611337	Soil	8	<3	<2	3	68	64	234	0.5	30	18	1457	3.03	59	<2	42	6.9	<3	<3	57
R611338	Soil	11	5	3	3	48	81	284	0.6	35	21	1035	3.64	81	<2	35	3.1	<3	<3	53
R611339	Soil	8	<3	<2	4	77	50	232	0.6	36	18	1554	3.08	90	<2	48	4.1	<3	<3	52
R611340	Soil	7	3	3	3	52	111	356	0.6	34	18	1188	3.04	100	<2	46	4.2	<3	<3	56
R611341	Soil	19	4	3	3	66	89	246	0.9	36	14	685	2.92	89	<2	29	2.3	<3	<3	56
R611342	Soil	95	<3	4	13	298	876	783	4.0	50	19	1316	3.83	151	<2	88	14.4	3	<3	65
R611343	Soil	13	<3	4	3	54	95	340	0.4	33	15	1162	3.02	82	<2	64	4.4	<3	<3	58
R611344	Soil	9	5	2	3	69	55	1251	0.5	35	21	2515	3.08	70	<2	44	23.8	<3	<3	57
R611345	Soil	5	5	<2	1	48	45	251	0.9	19	8	1084	1.32	31	<2	50	5.4	<3	<3	21
R611346	Soil	2	<3	<2	2	33	42	416	0.5	22	12	915	2.39	70	<2	28	4.4	<3	<3	44
R611347	Soil	5	<3	3	2	57	48	901	0.4	27	13	1616	1.96	51	<2	41	30.4	<3	<3	33
R611348	Soil	9	<3	2	4	46	40	276	0.3	32	13	910	2.66	91	<2	35	2.0	<3	<3	47
R611349	Soil	7	<3	3	4	51	42	266	0.4	34	13	928	2.73	103	<2	41	2.1	<3	<3	49
R611350	Soil	5	<3	<2	3	56	56	276	0.6	29	14	1136	2.57	111	<2	39	3.7	<3	<3	47
R611391	Soil	25	7	4	5	263	27	115	3.2	89	18	1073	3.62	18	<2	101	0.7	<3	<3	82
R611392	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611393	Soil	11	<3	<2	10	33	14	31	<0.3	6	4	151	1.59	10	<2	15	1.7	<3	<3	44
R611394	Soil	19	8	<2	2	16	12	54	<0.3	7	3	480	1.24	7	<2	55	1.2	<3	<3	35
R611395	Soil	7	6	3	3	16	15	36	<0.3	7	3	240	1.47	8	<2	28	1.2	<3	<3	43
R611396	Soil	12	16	<2	3	16	13	30	<0.3	5	2	133	1.17	8	<2	9	0.6	<3	<3	31
R611397	Soil	4	<3	<2	<1	6	5	15	<0.3	2	<1	26	0.30	<2	<2	9	1.0	<3	<3	8
R611398	Soil	I.S.	I.S.	I.S.	3	47	31	125	0.6	17	6	349	1.48	9	<2	56	1.8	<3	<3	34
R611399	Soil	I.S.	I.S.	I.S.	3	40	28	72	<0.3	14	7	292	1.67	9	<2	29	2.2	<3	<3	39
R611400	Soil	35	<3	14	7	232	28	81	1.3	21	9	471	1.86	14	<2	100	1.3	<3	<3	45
R611401	Soil	5	<3	<2	4	24	40	280	0.3	25	12	1038	2.39	99	<2	24	2.4	<3	<3	43
R611402	Soil	6	<3	2	3	13	20	157	<0.3	21	8	478	2.05	56	<2	19	1.1	<3	<3	38
R611403	Soil	5	<3	<2	4	37	36	443	0.6	36	12	1130	2.52	90	2	25	5.3	<3	<3	44
R611404	Soil	9	<3	<2	3	19	40	310	<0.3	23	10	776	2.32	60	3	20	3.0	<3	<3	42



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Method		AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
R611335	Soil	0.149	9	35	0.77	103	0.031	<20	1.94	0.03	0.19	<2	0.09	<1	<5	7	<5
R611336	Soil	0.112	10	28	0.65	78	0.044	<20	1.86	0.03	0.16	<2	0.05	<1	<5	5	<5
R611337	Soil	0.089	10	30	0.71	83	0.037	<20	1.57	<0.01	0.16	<2	<0.05	<1	<5	6	<5
R611338	Soil	0.077	9	33	0.78	79	0.055	<20	1.76	0.01	0.19	<2	<0.05	<1	<5	<5	<5
R611339	Soil	0.084	10	33	0.76	152	0.040	<20	1.67	0.01	0.16	<2	<0.05	<1	<5	<5	<5
R611340	Soil	0.076	8	37	0.90	135	0.048	<20	1.72	0.01	0.18	<2	<0.05	<1	<5	5	<5
R611341	Soil	0.062	11	39	1.14	71	0.057	<20	1.75	0.01	0.18	<2	<0.05	<1	<5	<5	<5
R611342	Soil	0.096	14	46	1.57	94	0.051	<20	1.98	0.02	0.25	<2	0.08	<1	<5	6	5
R611343	Soil	0.075	11	37	1.37	94	0.059	<20	2.02	0.02	0.25	<2	<0.05	<1	<5	6	<5
R611344	Soil	0.095	11	30	1.51	156	0.037	<20	1.90	0.02	0.20	<2	0.06	<1	<5	<5	<5
R611345	Soil	0.052	6	12	0.44	112	0.028	<20	0.84	0.02	0.14	<2	<0.05	<1	<5	<5	<5
R611346	Soil	0.061	7	27	0.66	105	0.041	<20	1.26	<0.01	0.15	<2	<0.05	<1	<5	<5	<5
R611347	Soil	0.057	7	22	0.52	134	0.040	<20	1.03	0.01	0.21	<2	<0.05	<1	<5	<5	<5
R611348	Soil	0.068	9	32	0.85	123	0.043	<20	1.52	<0.01	0.21	<2	<0.05	<1	<5	<5	<5
R611349	Soil	0.074	10	33	0.88	141	0.041	<20	1.53	<0.01	0.23	<2	<0.05	<1	<5	5	<5
R611350	Soil	0.066	9	34	0.84	116	0.045	<20	1.42	<0.01	0.20	<2	<0.05	<1	<5	<5	<5
R611391	Soil	0.067	27	187	1.90	196	0.095	<20	3.30	0.03	0.22	<2	0.05	<1	<5	7	7
R611392	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611393	Soil	0.021	5	12	0.11	48	0.045	<20	0.46	0.01	0.05	<2	<0.05	<1	<5	<5	<5
R611394	Soil	0.036	4	11	0.17	117	0.031	<20	0.46	0.01	0.09	<2	<0.05	<1	<5	<5	<5
R611395	Soil	0.026	5	12	0.17	84	0.039	<20	0.52	0.01	0.07	<2	<0.05	<1	<5	<5	<5
R611396	Soil	0.023	4	11	0.16	30	0.022	<20	0.61	0.02	0.05	<2	<0.05	<1	<5	<5	<5
R611397	Soil	0.019	2	3	0.03	31	0.009	<20	0.16	0.02	0.03	<2	<0.05	<1	<5	<5	<5
R611398	Soil	0.060	17	26	0.50	83	0.031	<20	1.17	0.02	0.12	<2	0.09	<1	<5	<5	<5
R611399	Soil	0.057	14	25	0.51	68	0.041	<20	0.99	0.01	0.12	<2	0.06	<1	<5	<5	<5
R611400	Soil	0.068	14	33	0.76	146	0.045	<20	1.32	0.02	0.09	<2	0.12	<1	<5	<5	<5
R611401	Soil	0.044	7	26	0.65	155	0.051	<20	1.20	<0.01	0.16	<2	<0.05	<1	<5	<5	<5
R611402	Soil	0.038	8	21	0.49	78	0.052	<20	1.10	<0.01	0.12	<2	<0.05	<1	<5	<5	<5
R611403	Soil	0.058	11	27	0.64	125	0.057	<20	1.32	0.01	0.16	<2	<0.05	<1	<5	<5	<5
R611404	Soil	0.048	9	24	0.55	85	0.061	<20	1.26	<0.01	0.12	<2	<0.05	<1	<5	<5	<5



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	Method Analyte Unit MDL	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
R611405	Soil	38	<3	<2	2	25	58	201	0.7	29	9	465	2.39	55	4	30	1.2	<3	<3	42	0.31
R611406	Soil	7	<3	<2	2	24	48	232	0.5	20	9	912	1.92	34	<2	31	3.3	<3	<3	33	0.35
R611407	Soil	8	<3	<2	3	33	48	363	0.7	37	11	839	2.21	43	<2	51	3.4	<3	<3	42	0.45
R611408	Soil	6	<3	<2	3	52	74	192	1.0	26	9	476	2.37	57	3	26	1.3	<3	<3	45	0.27
R611409	Soil	22	<3	<2	3	27	151	455	1.1	18	8	1002	1.99	71	<2	21	6.0	<3	<3	37	0.26
R611410	Soil	<2	<3	<2	1	9	34	326	<0.3	11	6	558	1.68	15	<2	18	3.9	<3	<3	32	0.22
R611411	Soil	7	<3	<2	2	45	93	287	0.9	24	8	505	2.31	41	5	27	2.8	<3	<3	46	0.30
R611412	Soil	13	<3	<2	2	39	82	375	0.8	21	8	649	2.16	33	3	27	4.4	<3	<3	43	0.30
R611413	Soil	29	4	<2	1	34	62	296	0.8	15	7	668	1.93	14	<2	24	2.7	<3	<3	43	0.29
R611414	Soil	16	<3	<2	1	43	93	172	<0.3	16	6	416	1.86	17	<2	23	1.0	<3	<3	39	0.25
R611415	Soil	15	<3	8	8	93	32	300	0.4	35	20	1070	4.04	171	<2	90	6.8	<3	<3	90	0.60
R611416	Soil	9	3	<2	5	52	25	316	<0.3	38	28	820	3.45	34	<2	43	3.5	<3	<3	84	0.46
R611417	Soil	39	<3	<2	4	113	27	562	0.7	57	43	2274	3.21	43	<2	118	19.8	<3	<3	64	1.20
R611418	Soil	10	3	<2	6	83	41	460	0.5	36	19	1186	3.99	205	<2	89	8.4	<3	<3	79	0.76
R611419	Soil	8	<3	<2	6	83	34	243	<0.3	40	20	687	3.72	82	2	48	2.8	<3	<3	83	0.49
R611420	Soil	4	<3	2	2	43	13	230	0.4	14	9	621	1.54	25	<2	37	6.5	<3	<3	36	0.30
R611421	Soil	5	<3	11	2	85	9	204	0.6	12	9	578	1.48	5	<2	61	4.1	<3	<3	21	0.57
R611422	Soil	6	<3	<2	7	80	21	126	0.4	15	22	1149	3.55	17	<2	76	4.0	<3	<3	56	0.42
R611423	Soil	10	<3	<2	8	147	49	207	0.8	29	21	1013	3.44	55	<2	82	6.3	<3	<3	57	0.67
R611424	Soil	8	6	<2	7	113	11	116	0.6	11	15	552	2.11	7	<2	71	2.3	<3	<3	34	0.45
R611425	Soil	31	<3	<2	6	93	52	172	0.8	27	16	1018	2.63	50	<2	97	3.7	<3	<3	50	0.95
R611426	Soil	38	<3	5	6	82	61	190	0.4	31	17	765	3.11	78	<2	42	2.4	<3	<3	59	0.42
R611427	Soil	6	<3	6	10	80	43	231	0.3	21	19	1321	3.16	53	<2	69	4.0	<3	<3	61	0.52
R611428	Soil	7	<3	<2	8	73	40	250	0.4	27	17	1131	3.52	56	<2	53	2.1	<3	<3	80	0.36
R611429	Soil	17	<3	<2	5	86	48	211	0.5	24	14	781	3.20	49	<2	40	1.6	<3	<3	60	0.30
R611430	Soil	15	12	11	2	24	17	34	<0.3	7	3	137	1.27	9	<2	11	0.7	<3	<3	29	0.08
R611431	Soil	16	4	18	<1	13	8	140	0.7	6	4	145	0.31	2	<2	152	10.3	<3	<3	5	1.86
R611432	Soil	67	<3	<2	6	84	38	101	0.3	28	13	526	2.95	32	3	29	<0.5	<3	<3	71	0.25
R611433	Soil	12	<3	2	5	58	32	90	1.2	22	9	456	2.44	21	<2	40	<0.5	<3	<3	51	0.37
R611434	Soil	9	<3	2	3	69	38	77	0.5	19	8	624	2.36	25	<2	34	<0.5	<3	<3	51	0.36



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Method Analyte Unit MDL		AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	0.01	2	0.05	1	5	5
R611405	Soil	0.042	10	30	0.63	92	0.066	<20	1.52	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
R611406	Soil	0.043	8	19	0.44	116	0.053	<20	1.08	0.01	0.15	<2	<0.05	<1	<5	<5	<5
R611407	Soil	0.057	11	35	0.68	122	0.059	<20	1.36	0.02	0.18	<2	<0.05	<1	<5	<5	<5
R611408	Soil	0.045	10	36	0.69	71	0.056	<20	1.30	<0.01	0.16	<2	<0.05	<1	<5	<5	<5
R611409	Soil	0.037	8	27	0.51	97	0.042	<20	1.00	<0.01	0.15	<2	<0.05	<1	<5	<5	<5
R611410	Soil	0.029	8	16	0.34	80	0.058	<20	0.84	<0.01	0.12	<2	<0.05	<1	<5	<5	<5
R611411	Soil	0.048	12	36	0.66	109	0.059	<20	1.32	0.01	0.14	<2	<0.05	<1	<5	<5	<5
R611412	Soil	0.050	11	33	0.60	132	0.054	<20	1.22	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
R611413	Soil	0.038	8	33	0.61	88	0.048	<20	1.03	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
R611414	Soil	0.057	10	29	0.55	72	0.053	<20	1.03	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
R611415	Soil	0.129	11	45	0.70	157	0.064	<20	1.75	0.02	0.24	<2	0.10	<1	<5	<5	<5
R611416	Soil	0.123	9	66	1.03	138	0.132	<20	1.72	0.01	0.29	<2	<0.05	<1	<5	5	<5
R611417	Soil	0.153	10	49	0.81	296	0.070	<20	1.50	0.01	0.35	<2	0.09	<1	<5	<5	<5
R611418	Soil	0.104	9	36	0.63	184	0.045	<20	1.74	0.02	0.18	<2	0.08	<1	<5	5	<5
R611419	Soil	0.123	12	50	0.94	104	0.105	<20	1.95	0.02	0.26	2	<0.05	<1	<5	<5	<5
R611420	Soil	0.084	6	15	0.32	135	0.036	<20	0.94	0.02	0.08	<2	<0.05	<1	<5	<5	<5
R611421	Soil	0.082	3	9	0.17	146	0.022	<20	0.64	0.03	0.07	<2	0.09	<1	<5	<5	<5
R611422	Soil	0.092	7	22	0.40	161	0.075	<20	1.14	0.03	0.12	<2	0.11	<1	<5	<5	<5
R611423	Soil	0.121	10	29	0.65	155	0.056	<20	1.63	0.02	0.18	<2	0.10	<1	<5	<5	<5
R611424	Soil	0.120	7	14	0.34	132	0.041	<20	0.91	0.03	0.10	<2	0.12	<1	<5	<5	<5
R611425	Soil	0.103	9	28	0.68	165	0.044	<20	1.44	0.02	0.17	<2	0.09	<1	<5	<5	<5
R611426	Soil	0.090	10	32	0.80	100	0.066	<20	1.71	0.02	0.18	<2	<0.05	<1	<5	<5	<5
R611427	Soil	0.082	8	31	0.63	174	0.058	<20	1.54	0.02	0.17	<2	0.08	<1	<5	<5	<5
R611428	Soil	0.065	10	36	0.75	156	0.067	<20	2.05	0.01	0.11	<2	<0.05	<1	<5	6	<5
R611429	Soil	0.075	9	31	0.73	141	0.062	<20	1.83	0.01	0.14	<2	0.07	<1	<5	<5	<5
R611430	Soil	0.036	6	11	0.17	55	0.029	<20	0.64	0.02	0.05	<2	<0.05	<1	<5	<5	<5
R611431	Soil	0.076	3	4	0.06	390	0.007	<20	0.25	0.02	0.05	<2	0.19	<1	<5	<5	<5
R611432	Soil	0.056	15	45	0.91	176	0.059	<20	2.23	0.01	0.11	<2	<0.05	<1	<5	<5	<5
R611433	Soil	0.072	17	34	0.80	149	0.024	<20	2.01	0.02	0.11	<2	<0.05	<1	<5	6	<5
R611434	Soil	0.053	23	28	0.67	100	0.046	<20	1.70	0.02	0.09	<2	<0.05	<1	<5	<5	<5



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	Method	Analyte	Unit	MDL	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300			
					Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
					ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
					2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
R611435	Soil		23	<3	<2	4	63	31	76	0.5	24	11	339	2.93	28	<2	36	<0.5	<3	<3	84	0.24		
R611436	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.			
R611437	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.			
R611438	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.			
R611439	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.			
R611440	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.			
R611441	Soil		7	5	13	2	24	17	34	<0.3	7	3	133	1.28	8	<2	10	0.8	<3	<3	28	0.07		
R611442	Soil		32	8	7	5	98	36	94	0.3	28	13	419	3.45	26	<2	42	<0.5	<3	<3	77	0.19		
R611443	Soil		31	<3	6	13	87	64	191	0.5	34	21	875	4.32	25	<2	88	1.3	<3	<3	85	0.52		
R611444	Soil		54	<3	4	6	98	62	216	1.7	29	18	1322	4.29	35	<2	95	3.1	<3	<3	74	1.02		
R611445	Soil		23	<3	18	8	89	60	325	0.8	100	29	1210	5.49	88	<2	115	3.9	<3	<3	99	1.44		
R611446	Soil		20	<3	10	2	86	28	73	0.7	18	5	340	1.21	18	<2	134	1.0	<3	<3	28	3.65		
R611447	Soil		16	<3	5	4	86	38	229	0.8	44	21	1978	4.30	54	<2	91	1.8	<3	<3	115	1.09		
R611448	Soil		46	<3	2	5	93	45	165	0.5	44	17	882	3.61	66	<2	108	1.0	<3	<3	115	0.97		
R611449	Soil		35	<3	<2	7	80	68	157	0.5	37	13	964	2.91	49	<2	50	2.3	<3	<3	64	0.81		
R611450	Soil		17	<3	11	5	43	73	167	0.9	32	12	710	2.67	169	<2	32	2.2	<3	<3	45	0.29		
R611451	Soil		I.S.	I.S.	I.S.	<1	6	5	60	<0.3	3	<1	44	0.15	<2	<2	23	2.5	<3	<3	2	0.37		
R611452	Soil		I.S.	I.S.	I.S.	<1	9	5	105	<0.3	3	<1	124	0.13	<2	<2	39	2.7	<3	<3	2	0.80		
R611454	Soil		20	<3	<2	3	27	25	91	<0.3	18	9	393	2.69	29	<2	19	0.9	<3	<3	66	0.22		
R611455	Soil		19	<3	<2	4	54	32	97	<0.3	29	11	448	2.69	34	<2	31	<0.5	<3	<3	78	0.43		
R611456	Soil		18	<3	<2	4	46	26	80	<0.3	25	9	332	2.28	29	<2	29	<0.5	<3	<3	65	0.37		
R611457	Soil		40	<3	7	4	39	59	127	0.5	20	9	445	1.85	11	<2	30	2.5	<3	<3	49	0.53		
R611458	Soil		17	<3	<2	4	34	30	55	0.3	16	10	562	1.75	14	<2	30	0.8	<3	<3	43	0.43		
R611459	Soil		45	<3	4	5	387	393	474	2.9	44	18	1178	3.37	47	<2	79	6.7	<3	<3	79	1.35		
R611460	Soil		4	<3	<2	2	29	15	32	<0.3	8	4	164	1.00	8	<2	12	1.7	<3	<3	29	0.11		
R611415	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.			
R611416	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.			
R611417	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.			
R611418	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.			
R611419	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.			



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		Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
		Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
		Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
		MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
R611435	Soil		0.051	12	46	0.95	91	0.077	<20	1.99	0.01	0.11	<2	<0.05	<1	<5	8	<5
R611436	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611437	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611438	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611439	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611440	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611441	Soil		0.032	6	11	0.15	56	0.030	<20	0.65	0.02	0.04	<2	<0.05	<1	<5	<5	<5
R611442	Soil		0.076	8	46	0.96	142	0.062	<20	1.97	0.01	0.15	<2	0.07	<1	<5	5	<5
R611443	Soil		0.106	10	53	1.41	372	0.070	<20	2.06	0.01	0.12	<2	0.08	<1	<5	8	<5
R611444	Soil		0.103	13	39	0.96	198	0.038	<20	2.19	0.05	0.11	<2	0.16	<1	<5	7	<5
R611445	Soil		0.104	18	44	0.82	75	0.041	<20	2.87	0.11	0.14	<2	0.08	<1	<5	7	6
R611446	Soil		0.104	12	21	0.43	136	0.015	<20	0.77	0.02	0.06	<2	0.21	<1	<5	<5	<5
R611447	Soil		0.116	13	47	2.07	144	0.073	<20	2.60	0.09	0.15	<2	0.06	<1	<5	9	8
R611448	Soil		0.104	14	46	1.62	119	0.057	<20	2.17	0.05	0.17	<2	0.06	<1	<5	8	6
R611449	Soil		0.090	13	37	1.37	112	0.037	<20	1.67	0.02	0.14	<2	0.06	<1	<5	5	<5
R611450	Soil		0.073	20	34	0.60	67	0.032	<20	1.17	0.01	0.09	<2	<0.05	<1	<5	5	<5
R611451	Soil		0.059	<1	4	0.04	47	0.004	<20	0.08	0.01	0.08	<2	0.13	<1	<5	<5	<5
R611452	Soil		0.064	<1	3	0.05	54	0.003	<20	0.09	<0.01	0.09	<2	0.15	<1	<5	<5	<5
R611454	Soil		0.061	9	30	0.79	77	0.079	<20	1.42	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
R611455	Soil		0.077	9	53	1.23	93	0.068	<20	1.53	0.01	0.10	<2	<0.05	<1	<5	5	<5
R611456	Soil		0.062	7	45	1.02	81	0.060	<20	1.26	0.02	0.09	<2	<0.05	<1	<5	6	<5
R611457	Soil		0.063	5	38	0.83	50	0.041	<20	1.00	<0.01	0.09	<2	0.07	<1	<5	<5	<5
R611458	Soil		0.062	8	31	0.67	75	0.035	<20	1.04	0.02	0.07	<2	0.06	<1	<5	<5	<5
R611459	Soil		0.079	26	62	1.48	162	0.052	<20	2.30	0.01	0.11	<2	0.06	<1	<5	8	8
R611460	Soil		0.022	4	15	0.28	43	0.032	<20	0.53	0.02	0.06	<2	<0.05	<1	<5	<5	<5
R611415	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611416	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611417	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611418	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611419	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.



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					Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
					ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
					2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
R611420	Soil																							
R611421	Soil																							
R611422	Soil																							
R611423	Soil																							
R611424	Soil																							
R611425	Soil																							
R611426	Soil																							
R611427	Soil																							
R611428	Soil																							
R611429	Soil																							
R611464	Soil																							
R611465	Soil																							
R611466	Soil																							
R611467	Soil																							
R611468	Soil																							
R611518	Soil																							
R611519	Soil																							
R611520	Soil																							
R611521	Soil																							
R611522	Soil																							
R611523	Soil																							
R611524	Soil																							
R611525	Soil																							
R611526	Soil																							
R611527	Soil																							
R611430	Soil																							
R611431	Soil																							
R611432	Soil																							
R611433	Soil																							
R611434	Soil																							



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		Method Analyte Unit MDL	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
			P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
			%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
			0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	0.01	2	0.05	1	5	5
R611420	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
R611421	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
R611422	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
R611423	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
R611424	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
R611425	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
R611426	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
R611427	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
R611428	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
R611429	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
R611464	Soil	0.106	9	32	0.70	165	0.087	<20	1.62	0.03	0.25	<2	0.22	<1	<5	7	<5	
R611465	Soil	0.119	10	32	0.85	147	0.061	<20	2.05	0.02	0.22	<2	0.15	<1	<5	7	<5	
R611466	Soil	0.076	8	29	0.66	165	0.057	<20	1.48	0.01	0.13	<2	<0.05	<1	<5	5	<5	
R611467	Soil	0.083	8	29	0.68	187	0.056	<20	1.54	0.01	0.13	<2	<0.05	<1	<5	<5	<5	
R611468	Soil	0.079	7	32	0.74	174	0.073	<20	1.91	0.01	0.14	<2	0.07	<1	<5	7	<5	
R611518	Soil	0.085	7	17	0.47	223	0.039	<20	1.06	0.02	0.16	<2	<0.05	<1	<5	<5	<5	
R611519	Soil	0.065	8	22	0.53	134	0.057	<20	1.41	0.01	0.13	<2	<0.05	<1	<5	5	<5	
R611520	Soil	0.056	8	25	0.62	104	0.065	<20	1.39	0.01	0.14	<2	<0.05	<1	<5	5	<5	
R611521	Soil	0.097	7	21	0.52	129	0.039	<20	1.22	0.01	0.19	<2	0.06	<1	<5	<5	<5	
R611522	Soil	0.054	7	21	0.45	159	0.057	<20	1.22	0.01	0.13	<2	<0.05	<1	<5	<5	<5	
R611523	Soil	0.073	8	21	0.54	153	0.053	<20	1.28	0.01	0.13	<2	<0.05	<1	<5	<5	<5	
R611524	Soil	0.076	8	26	0.71	133	0.063	<20	1.61	0.02	0.17	<2	<0.05	<1	<5	<5	<5	
R611525	Soil	0.139	6	23	0.56	121	0.034	<20	1.35	0.03	0.16	<2	0.06	<1	<5	<5	<5	
R611526	Soil	0.075	9	30	0.71	167	0.055	<20	1.64	0.02	0.17	<2	<0.05	<1	<5	<5	<5	
R611527	Soil	0.056	8	27	0.74	81	0.062	<20	1.63	<0.01	0.12	<2	<0.05	<1	<5	<5	<5	
R611430	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
R611431	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
R611432	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
R611433	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
R611434	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	



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Project: Red Ridge

Report Date: August 16, 2017

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CERTIFICATE OF ANALYSIS

WHI17000350.1

	Method Analyte Unit MDL	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
R611435	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611441	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611442	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611443	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611444	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611445	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611446	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611447	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611448	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611449	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611450	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611501	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611297	Soil	13	<3	9	3	46	47	3112	0.6	28	6	327	2.12	44	<2	109	32.2	<3	<3	35	1.95
R611298	Soil	5	<3	5	3	21	49	542	<0.3	21	11	1051	2.48	105	<2	31	4.0	<3	<3	41	0.39
R611299	Soil	7	<3	<2	5	29	50	367	<0.3	26	12	1066	2.82	140	<2	32	3.0	<3	<3	44	0.42
R611300	Soil	6	<3	<2	5	45	61	328	<0.3	26	11	1367	2.85	134	<2	31	3.3	<3	<3	46	0.41
R611390	Soil	10	<3	<2	2	30	10	81	0.4	11	6	1211	1.86	11	<2	29	1.7	<3	<3	44	0.35
R611453	Soil	I.S.	I.S.	I.S.	2	56	6	50	<0.3	7	2	683	0.58	3	<2	63	3.9	<3	<3	11	1.80



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Project: Red Ridge

Report Date: August 16, 2017

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CERTIFICATE OF ANALYSIS

WHI17000350.1

Method Analyte Unit MDL		AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
R611435	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611441	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611442	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611443	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611444	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611445	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611446	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611447	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611448	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611449	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611450	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611501	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R611297	Soil	0.090	11	30	0.82	155	0.031	<20	1.23	0.03	0.08	<2	0.16	<1	<5	<5	<5
R611298	Soil	0.030	9	21	0.64	116	0.048	<20	1.18	0.01	0.20	<2	<0.05	<1	<5	<5	<5
R611299	Soil	0.048	10	22	0.80	133	0.049	<20	1.38	0.01	0.19	<2	<0.05	<1	<5	<5	<5
R611300	Soil	0.068	12	27	0.81	307	0.037	<20	1.44	<0.01	0.15	<2	<0.05	<1	<5	<5	<5
R611390	Soil	0.029	7	20	0.34	110	0.051	<20	1.03	0.02	0.16	<2	<0.05	<1	<5	<5	<5
R611453	Soil	0.065	18	7	0.13	140	0.013	<20	0.43	<0.01	0.09	<2	0.13	<1	<5	<5	<5



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Project: Red Ridge

Report Date: August 16, 2017

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QUALITY CONTROL REPORT

WHI17000350.1

	Method Analyte Unit MDL	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
Pulp Duplicates																					
R611343	Soil	13	<3	4	3	54	95	340	0.4	33	15	1162	3.02	82	<2	64	4.4	<3	<3	58	0.73
REP R611343	QC				3	55	95	341	0.4	33	15	1175	3.05	84	<2	65	4.5	<3	<3	59	0.73
R611350	Soil	5	<3	<2	3	56	56	276	0.6	29	14	1136	2.57	111	<2	39	3.7	<3	<3	47	0.49
REP R611350	QC	5	8	4																	
R611419	Soil	8	<3	<2	6	83	34	243	<0.3	40	20	687	3.72	82	2	48	2.8	<3	<3	83	0.49
REP R611419	QC				5	82	33	239	<0.3	40	19	664	3.60	79	<2	46	2.8	<3	<3	81	0.47
R611426	Soil	38	<3	5	6	82	61	190	0.4	31	17	765	3.11	78	<2	42	2.4	<3	<3	59	0.42
REP R611426	QC	22	<3	<2																	
R611460	Soil	4	<3	<2	2	29	15	32	<0.3	8	4	164	1.00	8	<2	12	1.7	<3	<3	29	0.11
REP R611460	QC				2	30	17	33	<0.3	8	4	168	1.04	8	<2	12	1.8	<3	<3	30	0.11
R611524	Soil	11	<3	<2	2	36	52	350	0.4	22	15	1458	2.88	44	<2	32	5.5	<3	<3	59	0.51
REP R611524	QC	16	<3	<2																	
R611390	Soil	10	<3	<2	2	30	10	81	0.4	11	6	1211	1.86	11	<2	29	1.7	<3	<3	44	0.35
REP R611390	QC				3	29	12	80	0.4	11	6	1185	1.83	11	<2	29	1.7	<3	<3	44	0.34
Reference Materials																					
STD CDN-PGMS-19	Standard	211	104	481																	
STD CDN-PGMS-23	Standard	487	468	2023																	
STD CDN-PGMS-19	Standard	218	97	472																	
STD CDN-PGMS-19	Standard	242	103	464																	
STD CDN-PGMS-23	Standard	543	452	2097																	
STD DS10	Standard				14	153	149	370	1.7	74	12	893	2.71	44	5	67	2.3	8	11	42	1.07
STD DS10	Standard				14	150	143	364	2.2	73	12	856	2.75	44	7	65	2.3	7	11	43	1.11
STD DS10	Standard				15	158	158	395	1.9	80	13	951	2.93	46	7	73	2.3	7	12	47	1.16
STD DS10	Standard				14	168	163	400	2.0	80	13	978	2.98	48	6	72	2.6	6	12	47	1.18
STD DS11	Standard				14	151	135	356	1.9	80	13	1067	3.14	44	5	67	2.2	7	10	50	1.05
STD DS11	Standard				14	142	129	329	1.9	74	12	987	2.97	42	7	61	2.1	8	10	47	1.03
STD DS11	Standard				15	154	147	357	1.6	81	13	1047	3.15	44	8	68	2.1	5	10	51	1.10
STD DS11	Standard				14	159	146	365	2.1	83	14	1093	3.24	45	6	68	2.3	6	10	51	1.14



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QUALITY CONTROL REPORT

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	Method	Analyte	Unit	MDL	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300			
					P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
					%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
					0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
Pulp Duplicates																				
R611343	Soil	0.075	11	37	1.37	94	0.059	<20	2.02	0.02	0.25	<2	<0.05	<1	<5	6	<5			
REP R611343	QC	0.076	11	37	1.38	94	0.058	<20	2.04	0.02	0.25	<2	<0.05	<1	<5	7	<5			
R611350	Soil	0.066	9	34	0.84	116	0.045	<20	1.42	<0.01	0.20	<2	<0.05	<1	<5	<5	<5			
REP R611350	QC																			
R611419	Soil	0.123	12	50	0.94	104	0.105	<20	1.95	0.02	0.26	2	<0.05	<1	<5	<5	<5			
REP R611419	QC	0.121	12	49	0.93	102	0.101	<20	1.88	0.01	0.26	<2	<0.05	<1	<5	<5	<5			
R611426	Soil	0.090	10	32	0.80	100	0.066	<20	1.71	0.02	0.18	<2	<0.05	<1	<5	<5	<5			
REP R611426	QC																			
R611460	Soil	0.022	4	15	0.28	43	0.032	<20	0.53	0.02	0.06	<2	<0.05	<1	<5	<5	<5			
REP R611460	QC	0.023	5	16	0.29	44	0.032	<20	0.54	0.02	0.06	<2	<0.05	<1	<5	<5	<5			
R611524	Soil	0.076	8	26	0.71	133	0.063	<20	1.61	0.02	0.17	<2	<0.05	<1	<5	<5	<5			
REP R611524	QC																			
R611390	Soil	0.029	7	20	0.34	110	0.051	<20	1.03	0.02	0.16	<2	<0.05	<1	<5	<5	<5			
REP R611390	QC	0.029	7	20	0.33	108	0.048	<20	1.01	0.02	0.16	<2	<0.05	<1	<5	<5	<5			
Reference Materials																				
STD CDN-PGMS-19	Standard																			
STD CDN-PGMS-23	Standard																			
STD CDN-PGMS-19	Standard																			
STD CDN-PGMS-19	Standard																			
STD CDN-PGMS-23	Standard																			
STD DS10	Standard	0.076	16	55	0.80	420	0.076	<20	1.02	0.07	0.34	4	0.29	<1	6	<5	<5			
STD DS10	Standard	0.073	16	58	0.81	415	0.076	<20	1.04	0.07	0.33	3	0.29	<1	<5	<5	<5			
STD DS10	Standard	0.080	18	59	0.85	455	0.089	<20	1.14	0.07	0.36	4	0.30	<1	6	<5	<5			
STD DS10	Standard	0.082	17	59	0.87	469	0.084	<20	1.13	0.08	0.37	3	0.32	<1	7	<5	<5			
STD DS11	Standard	0.071	18	59	0.88	439	0.093	<20	1.16	0.07	0.41	3	0.29	<1	6	<5	<5			
STD DS11	Standard	0.066	16	59	0.85	405	0.086	<20	1.07	0.07	0.37	3	0.28	<1	<5	<5	<5			
STD DS11	Standard	0.073	18	60	0.90	433	0.096	<20	1.17	0.07	0.42	4	0.29	<1	5	<5	<5			
STD DS11	Standard	0.074	18	61	0.92	456	0.095	<20	1.19	0.08	0.42	2	0.31	<1	7	5	<5			



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		FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
STD OREAS45EA	Standard				2	703	15	30	0.3	386	54	413	21.74	6	6	4	<0.5	<3	<3	311	0.04
STD OREAS45EA	Standard				2	677	15	29	0.8	359	51	392	20.90	10	11	3	0.5	<3	<3	295	0.03
STD OREAS45EA	Standard				2	735	17	32	<0.3	420	57	425	23.58	6	8	4	<0.5	<3	<3	331	0.04
STD OREAS45EA	Standard				1	727	18	30	<0.3	406	55	425	23.96	5	7	4	<0.5	<3	<3	324	0.04
STD DS10 Expected					13.6	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	7.5	67.1	2.62	9	11.65	43	1.0625
STD OREAS45EA Expected					1.6	709	14.3	31.4	0.26	381	52	400	23.51	10	10.7	3.5				303	0.036
STD DS11 Expected					13.9	156	138	345	1.71	81.9	14.2	1055	3.2082	42.8	7.65	67.3	2.37	7.2	12.2	50	1.063
STD CDN-PGMS-19 Expected		230	108	476																	
STD CDN-PGMS-23 Expected		496	456	2032																	
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank	2	<3	<2																	
BLK	Blank	2	<3	<2																	
BLK	Blank	3	<3	<2																	
BLK	Blank	<2	<3	2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	2	<3	<2																	



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		AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5
STD OREAS45EA	Standard	0.030	8	891	0.10	148	0.100	<20	3.23	0.01	0.06	<2	<0.05	<1	<5	20
STD OREAS45EA	Standard	0.029	7	896	0.09	140	0.098	<20	3.21	0.02	0.05	<2	<0.05	<1	<5	16
STD OREAS45EA	Standard	0.031	8	953	0.11	155	0.107	<20	3.55	0.02	0.06	<2	<0.05	<1	<5	16
STD OREAS45EA	Standard	0.032	8	927	0.10	157	0.104	<20	3.47	0.02	0.06	<2	<0.05	<1	<5	11
STD DS10 Expected		0.0765	17.5	54.6	0.775	412	0.0817	7.13	1.0259	0.067	0.338	3.32	0.29	0.3	5.1	4.3
STD OREAS45EA Expected		0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053		0.036			12.4
STD DS11 Expected		0.0701	18.6	61.5	0.85	417	0.0976	6	1.129	0.0694	0.4	2.9	0.2835	0.3	4.9	4.7
STD CDN-PGMS-19 Expected																
STD CDN-PGMS-23 Expected																
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5
BLK	Blank															
BLK	Blank															
BLK	Blank															
BLK	Blank															
BLK	Blank															
BLK	Blank															

APPENDIX IV

STATEMENT OF EXPENDITURE

Table 4: Total Expenditures, Red Ridge Property, Apex Resources Inc.

Per Diem Rates:		Amt per 10-day Program	
Project Geologist: \$600/day	\$ 600.00	\$	6,000.00
Field technicians: \$450/day x 2	\$ 900.00	\$	9,000.00
Camp Rental (all-in): \$50/day:	\$ 50.00	\$	500.00
ATV Rental: \$87/day x 2	\$ 180.00	\$	1,800.00
Radios (3): \$10/day	\$ 10.00	\$	100.00
Sat Phone: \$10/day	\$ 10.00	\$	100.00
Total	\$ 1,750.00	\$	17,500.00
Groceries (\$40/person-day)	\$ 120.00		\$ 1,200.00
Other rates			
Expediting: \$85/hour x 8 hours			\$ 680.00
Assessment Report (pro-rated):			\$ 1,500.00
Heli-support:			\$ 4,261.00
		Total service rates	\$ 25,141.00
Rock Samples: 53 @ \$40/sample:			\$ 2,120.00
Soil samples: 203 @ \$34/sample:			\$ 6,902.00
			\$ 34,163.00