YMEP 2017 Final Technical Report

Mapping, Prospecting, Geochemical Sampling and Airborne Surveying of the Sheba Property

NTS: 115O/10

Dawson Mining District, Yukon Territory, Canada

Property Centre:

UTM (NAD 83) 7V 615950E, 7049600N

Work Applied to CLAIMS:

SHEBA 1-20	YE32676 - YE32695
SHEBA 21-40	YE32550 - YE32569
SHEBA 41-60	YE32725 - YE32744
SHEBA 61-69	YE32792 - YE32800
SHEBA 70-100	YE32501 - YE32531
SHEBA 101-108	YE32745 - YE32752
SHEBA 109-120	YE32402 - YE32413
SHEBA 121-125	YE32696 - YE32700
SHEBA 126-140	YE32435 - YE32449
SHEBA 141-160	YE32570 - YE32589

WORK PERFORMED:

September 9 – September 18, 2016

Prepared for:

Eureka Resources Inc.

Prepared by:

AURORA GEOSCIENCES

YMEP 2017 Final Technical Report
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Effective Date:
December 18, 2017

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1 SUMMARY

Eureka Resources Inc. contracted Aurora Geosciences Ltd. to conduct an exploration program on the Sheba property, consisting of two phases in May and September of 2017 respectively. This property is currently held by Eureka Resources Inc. (50%) and Panarc Resources Ltd. (50%). The program comprised an early May phase of airborne Versatile Time Domain Electromagnetics (VTEM) survey, conducted by Geotech Ltd. on contract to Aurora Geosciences Ltd.; and an early September phase of surface exploration consisting of geologic mapping, prospecting and soil and silt geochemical sampling, conducted by Aurora Geosciences Ltd.

In December of 2016, Eureka entered into an agreement to acquire a 100% interest in these properties from two vendors, Panarc Resources Ltd. and Heli Dynamics Ltd. The Sheba property consists of 160 Yukon quartz mining claims covering 3,360 hectares, centered 67 kilometres southeast of Dawson City, Yukon. Although access is currently by helicopter, the northwest corner of the property extends within 1.4 km of a seasonally accessible placer access road extending from the main Black Hills Creek road.

The property is located within the Yukon-Tanana Terrane (YTT), a major accreted terrane comprised of variably metamorphosed, highly deformed intrusive, volcanic and sedimentary rocks mainly Neoproterozoic to late Paleozoic in age, but also includes significant Mesozoic- aged assemblages. The regional stratigraphy, including that of the local area, trends NNW – SSE. The property itself is underlain by two major stratigraphic groups: an aerially extensive assemblage of Permian Sulphur Creek Suite orthogneiss comprised of metamorphosed granodiorite to quartz monzonite; and an extensive package of Proterozoic to Devonian-aged Nasina Series, “Snowcap Assemblage” metaclastic rocks comprised mainly of quartzite, psammite and pelites. The property is located within “Beringia”, an area covering west-central Yukon and most of central Alaska and was not affected by Pleistocene glaciation.

The exploration target for this project is an orogenic gold system. These systems are characterized by sizable auriferous quartz veins, potentially up to 1.0 km in length and multiple metres in width. In an orogenic setting there is no evidence of intrusive activity, such as hornfels aureoles or contact metamorphic minerals; hence, intrusion-related mineralization is absent. Rather, the structural conduits are district-scale “crustal” faults that allow for hydrothermal fluid movement from a typically deep-seated source. Hard-rock gold mineralization in the Klondike area is considered to be of orogenic origin.

In May of 2017, Eureka Resources Inc. conducted an “Airborne Inductively Induced Polarization” (AIIP) survey combined with an airborne Total magnetic intensity (TMI) magnetic survey across the Sheba property. The survey was conducted by Geotech Ltd., supervised by Aurora Geosciences Ltd., and was designed to evaluate for shallow conductive features within the claim block but also to determine the aeromagnetic signature of the property. The Early-Time Gate and Mid-Time Gate plots of the electromagnetic response identify several conductive features on the property and the Total Magnetic Intensity plot indicates a series of NE-SW trending linears and a magnetic high coincident with a conductive signature.

The results of the airborne survey were then used to design a reconnaissance geochemistry and geology program to follow up on geophysical anomalies and test their potential to host mineralization. This survey consisted of a ridge-and-spur and contour soil survey, a stream silt sampling program, reconnaissance bedrock mapping, and prospecting. The surface program identified several areas of elevated gold and associated pathfinder elements in soils and stream silts. Several rock samples from the northwestern portion of the property returned anomalous arsenic and lead values, and strongly anomalous antimony values. One rock sample of limonitic quartz returned anomalous gold and highly anomalous silver and

lead concentrations. This rock sample was taken near a reconnaissance soil geochemical survey line returning weakly but consistently anomalous arsenic and lead values in soils; stream silts sampling returned similarly anomalous values directly to the south. This area is also marked by a large conductivity anomaly identified in the AIIP airborne survey.

Favourable results from this northwestern anomaly warrant follow-up surface exploration, consisting of grid soil geochemical sampling, further prospecting and geological mapping. The program would be conducted by a three-person crew with helicopter support based from Dawson City, Yukon. Projected expenditures including 5% contingency stand at stand at $56,000.

2 INTRODUCTION

Eureka Resources Inc. (Eureka) retained Aurora Geosciences Ltd. (Aurora) of Whitehorse, Yukon, as the primary contractor to conduct the 2017 exploration program on its Sheba property approximately 67 km southeast of Dawson City, Yukon, towards the southern limit of the Klondike placer mining district. The program consisted of two phases. The first phase was an airborne geophysical survey and the second phase was a ground geochemical and geological reconnaissance survey. Aurora retained Geotech Ltd. of the Town of Aurora, Ontario, to conduct the airborne survey.

From May 6-17, 2017, Geotech Ltd. conducted an “Airborne Inductively Induced Polarization” (AIIP) survey combined with an airborne magnetic survey across the Sheba property, one of five surveys conducted on a suite of five properties held by Eureka.

From September 9-18, 2017, Aurora personnel conducted a field program on the Sheba property composed of three main components: a reconnaissance soil survey, a stream silt sampling program, and a mapping and prospecting program. A total of 370 soil samples, 67 stream silt samples and 36 rock samples were collected. A lack of outcrop on the property constrained prospecting and mapping efforts.

2.1 Terms of Reference

The author has been requested to write this report using the following terms of reference:

a) To review and compile all available data obtained by Eureka during its 2017 field program.

b) To provide a Final Technical Report to be filed for compliance with the conditions of the Yukon Mineral Exploration Program (YMEP) grant that Eureka obtained from the Ministry of Energy, Mines and Resources, Government of Yukon.

2.2 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 co-ordinates reported in UTM NAD 83 projection, Zone 7. “Minfile Occurrence” refers to documented mineral occurrences on file with the Yukon Minfile, Department of Energy, Mines and Resources, Government of Yukon.

“Mag” and “EM” refer to “Magnetic” and “Electromagnetic” methods respectively of geophysical surveying. “IP” is an abbreviation for Induced Polarization surveying. “AIIP” stands for “Airborne Inductively Induced Polarization” study.

“Ma” refers to million years. “QAQC” refers to “Quality Assurance/ Quality Control”.

The term “g/t” stands for grams per metric tonne. The term “ppm” stands for “parts per million, and “ppb” for “parts per billion”. ICP-AES stands for “Inductively coupled plasma mass spectroscopy”, and AA stands for “atomic absorption”.

“CEO” stands for Chief Executive Officer. “NI 43-101” stands for National Instrument 43-101. Elemental abbreviations used in this report are:

Ag: Silver	Mg: Magnesium
Al: Aluminum	Mn: Manganese

As: Arsenic	Mo: Molybdenum
Au: Gold	Na: Sodium
B: Boron	Ni: Nickel
Ba: Barium	P: Phosphorous
Bi: Bismuth	Pb: Lead
Ca: Calcium	S: Sulphur
Cd: Cadmium	Sb: Antimony
Co: Cobalt	Sc: Scandium
Cr: Chrome	Sr: Strontium
Cu: Copper	Th: Thorium
Fe: Iron	Ti: Titanium
Ga: Gallium	Tl: Thallium
Hg: Mercury	V: Vanadium
K: Potassium	W: Tungsten
La: Lanthium	Zn: Zinc

2.3 Sources of Information

Information on claim tenure, including adjacent properties, and regional geology was provided by the "Yukon Mapmaker Online" website of the Yukon Geology Survey at http://mapservices.gov.yk.ca/YGS/Load.htm. Information on regional geology was provided by the "Yukon Bedrock Geology" website and by the "YGS Mapmaker Online" website, both available at http://www.geology.gov.yk.ca/Web_map_gallery.html.

3 PROPERTY DESCRIPTION AND LOCATION

3.1 Property Description

The Sheba property is located approximately 64 km southeast of Dawson City, on NTS map sheet 115 O/10 (Fig. 1). The property consists of 160 Yukon quartz mining claims covering 3,360 hectares (8,299 acres) and is centered at 63°32’8” N, 138°41’29” W (UTM NAD 83 coordinates 614775, 7047320, Zone 7), at the confluence of two forks of Wounded Moose Creek east of Eureka Dome. Although no all-season access roads extend on to the property, the stream confluence is located within six kilometres of the main Black Hills Creek access road, and within seven kilometres of the Indian River. A cat trail extends from placer mine roads onto the NW end of the property and baseline trails extend up both forks of Wounded Moose Creek. Access to the property is by helicopter or foot from one of the nearby placer mining roads.

The Sheba property consists of 160 contiguous Yukon quartz mining claims (Fig. 2) covering 3,360 hectares (8,299 acres). It is centered at 63°32’8” N, 138°41’29” W (UTM NAD 83 coordinates 614775, 7047320, Zone 7), at the confluence of two forks of Wounded Moose Creek east of Eureka Dome. Placer claims in good standing cover the entire extent of both forks within property boundaries, and a placer lease covers a “right” tributary directly to the northeast. Although no all-season access roads extend on to the property, the stream confluence is located within six kilometres of the main Black Hills Creek access road, and within seven kilometres of the Indian River.

Table 1 shows the claim status of the SHEBA 1-160 block as of Nov 8, 2017.

Table 1: Claim Status, Sheba claim block

Claim Names	Grant No's	Expiry Date
SHEBA 1	YE32676	10-Jun-21
SHEBA 2	YE32677	10-Jun-22
SHEBA 3	YE32678	10-Jun-21
SHEBA 4	YE32679	10-Jun-22
SHEBA 5	YE32680	10-Jun-21
SHEBA 6	YE32681	10-Jun-22
SHEBA 7	YE32682	10-Jun-21
SHEBA 8	YE32683	10-Jun-22
SHEBA 9-20	YE32684 - YE32695	10-Jun-21
SHEBA 21-30	YE32550 – YE32559	10-Jun-22
SHEBA 31-40	YE32560 - YE32569	10-Jun-21
SHEBA 41-60	YE32725 - YE32744	10-Jun-21
SHEBA 61-69	YE32792 - YE32800	10-Jun-21
SHEBA 70-100	YE32501 - YE32531	10-Jun-21
SHEBA 101-108	YE32745 - YE32752	10-Jun-21

SHEBA 109-120	YE32402 - YE32413	10-Jun-21
SHEBA 121-125	YE32696 - YE32700	10-Jun-21
SHEBA 126-140	YE32435 - YE32449	10-Jun-21
SHEBA 141-160	YE32570 - YE32589	10-Jun-21

There are no current exploration permits for hard rock exploration on the property. Activities allowed under a "Class 1" exploration permit comprise rock, soil and silt geochemical sampling, geological mapping, trenching (to a limit of 400m^3 per claim), temporary trail construction (to a maximum of 3.0 km) and a maximum of 250 person-days in camp for a total of all activities.

A gradation of permits, for Class 2 through Class 4 activities, is required for more significant programs, which may include diamond drilling and reverse-circulation programs having a footprint exceeding Class 1 limits. Larger exploration programs require a "Class 3 Permit", valid for five years and acquired through the local Mining Recorder, Department of Energy, Mines and Resources (EMR), Government of Yukon.

Class 3 permit activities allow for sizable diamond drilling programs (depending on the number of clearings per claim), up to 5,000 m^3 of trenching per claim per year, the establishment of up to 15 km of new roads and 40 km of new trails, and up to 200,000 tonnes of underground excavation work during the length of the exploration program. A "Yukon Water License" is required if water usage exceeds 300m^3/day. Additional licenses may be required for "Disposal of Special Waste," and a "Consolidated Environmental Act Permit" is required for proper disposal of camp waste and ash resulting from incineration, etc. A "Fuel Spill Contingency Plan" will also be required.

All applications for Class 2 through Class 4 require review by the Yukon Environmental and Socioeconomic Board (YESAB). YESAB will provide recommendations on whether the project may proceed, may proceed with modifications, or is not allowed to proceed. Following submission by YESAB, a Decision Body will determine whether to accept the recommendations, and whether a permit will be awarded and, if so, the conditions of the permit.

The property is located within Crown Land in the traditional territory of the Tr'ondek Hwech'in First Nation (THFN).

3.2 Land Tenure and Underlying Agreements

The Sheba property is one of three claim blocks comprising the Luxor project, which also includes the Ophir and Hav properties. In December, 2016 Eureka entered into an agreement to acquire a 100% interest in these properties from two vendors having an equal interest in the properties: Panarc Resources Ltd. (50%) and Heli Dynamics Ltd. (50%). The vendors will receive a total of 2,500,000 shares, released as 833,333 shares on the 6, 12 and 18-month anniversaries of the closing date. The vendors also retain a 2% Net Smelter return (NSR) royalty, which Eureka may purchase for CDN$1,000,000.

Figure 1: Location of the Sheba property.

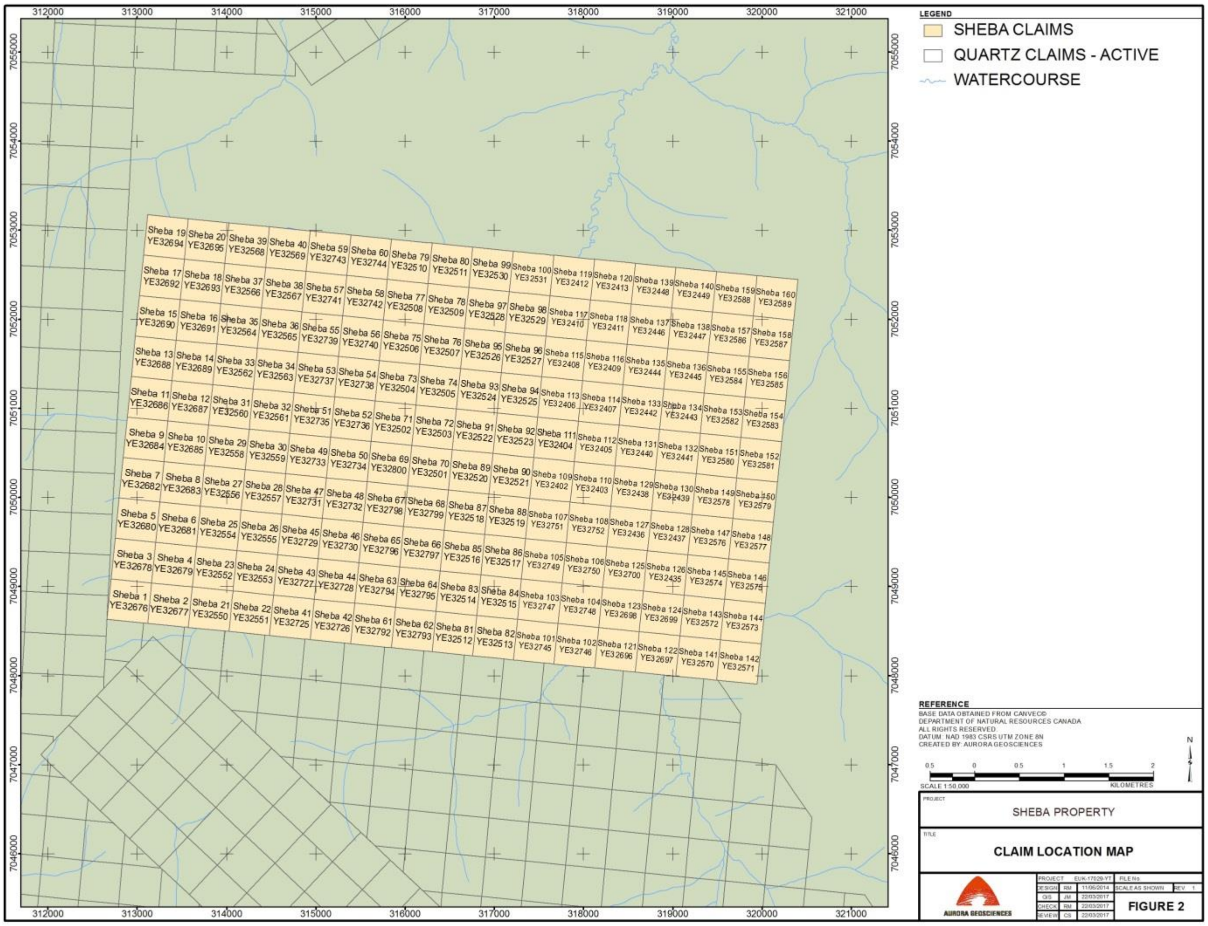

Figure 2: Claim location map for the Sheba property.

4 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

The Sheba property is centered 67 km southeast of Dawson City, Yukon. There is no direct road access; however, the northwest corner is located about 1.4 km from a seasonally serviceable, although retired, placer mine access road. This road terminates in a cat trail that leads onto the property, though this trail is somewhat overgrown. The northern boundary is located 5.9 km south of the main Black Hills Creek placer access road directly south of the Indian River bridge. This road extends southwest from the junction of the Dominion Creek and Sulphur Creek roads, and is seasonally privately maintained by the local operators. The Dominion and Sulphur Creek roads are seasonally maintained by the Department of Highways and Public Works, Government of Yukon, and are accessible from mid-April to mid-October.

Note: Portions of the access roads, including parts of the Black Hills Creek road, may become refurbished and potentially accessible year-round, if Goldcorp Inc. commences construction of an access road extending from the North Klondike Highway near Dawson to the Coffee Property directly south of the Yukon River.

Access to the property is currently by helicopter from Dawson, with staging sites available along the Black Hills Creek road or by foot from one of the nearby placer mine access roads.

The terrain on the property is moderate, consisting of large rolling hills with few inaccessible areas. In most areas outcrop is scarce, confined almost exclusively to ridgelines and spurs. Elevations range from about 620 metres along Wounded Moose Creek at the northern claim boundary to 1,120 metres along a ridgeline near the southern boundary. The climate is continental subarctic, with short warm summers with daily highs commonly exceeding 20^{o}C, and long, cold winters with low temperatures averaging -25^{o} to -30^{o}C, although temperatures below -40^{o}C are not uncommon. North facing slopes and some east-facing slopes are typically underlain by permafrost. Precipitation is light to moderate, although showers and thundershowers are common in summer. Maximum snowpack averages from 0.4 to 0.6m, depending on elevation. The field season extends from late May to mid-September, depending on elevation and snow conditions, although drilling may extend into late autumn, provided that water lines can remain unfrozen.

Dawson City is a full-service community with a population of 1,319. The neighbouring communities in the Klondike area increase the population to roughly 2,000. Dawson City has bulk fuel, grocery and hardware services, abundant accommodation, and government services including the Mining Recorder's office for the Dawson Mining District. Dawson City is located roughly 425 air-kilometres (550 road-kilometres) NNW of Whitehorse along the North Klondike Highway. Whitehorse, Yukon, is a full-service community of about 29,000, with excellent accommodations, groceries, hardware, camp supplies, bulk fuel and expediting services. Both Dawson City and Whitehorse have a substantial skilled labour force, including professional geoscientists and tradespeople; however, a sizable operation may require staff from outside Yukon.

The property size and moderate terrain within the Sheba block are sufficient to accommodate mining facilities, potential mill processing sites, heap leach pads, and waste disposal sites. The moderately rugged topography may require large tailings dams to be constructed for adequate tailings impoundment. There is sufficient water within the property to supply mining and milling operations, including accommodations and drilling. The property is centered about 57 km south of the main electrical transmission line connected to the electrical grid servicing Whitehorse, Mayo, Dawson City and several other Yukon communities.

5 EXPLORATION HISTORY

The present Sheba property was staked in 2016 by an equal partnership between Panarc Resources Ltd. and Heli Dynamics Ltd. The block was optioned to Eureka Resources Inc. in late 2016.

Although the property area was explored for placer gold during the Klondike Gold Rush, no records of activity prior to 2011 within the claim block are known. However, the Wounded Moose Creek confluence is roughly 11 km east of the Eureka Prospect (Yukon Minfile # 115O 057). This prospect and local area underwent several episodes of staking from 1900 through 1920, although little data exists on early exploration. Interest in the prospect resumed in 1988 following release of RGS stream sediment data, showing an “extremely anomalous” gold value of 89 ppb Au. Several episodes of bedrock mapping, rock, soil and silt geochemical sampling took place from 1988 through 2000. Exploration identified three main mineralized showings: the Allen, Wealth and Childs showings. In 2002 Viceroy Exploration Canada Ltd. conducted mechanical trenching and drilled four reverse-circulation holes; three holes for 290 metres on the Allen showing and one 90-metre hole on the Wealth showing (Yukon Minfile, 2017).

Grab samples from the Allen showing, located along the upper reaches of Eureka Creek 1.5 km south of the indicated Minfile location, consisted of milled, clay-rich brecciated quartzite and quartz-muscovite and returned values to 15 g/t gold. Continuous chip sampling across this zone returned a value of 0.44 g/t gold across 4 metres. At the Wealth showing, located about 3 km south of the Eureka Minfile location, chip sampling returned a value of 0.33 g/t gold across 6.5 metres. Check assaying returned a value of 0.41 g/t gold across the same interval. Reverse-circulation drilling returned a value of 0.66 g/t gold across 8 metres. At the Childs showing, 5 km south of the Minfile location, grab sampling returned values to 3.97 g/t gold with 3.2 g/t silver. All showings are associated with sizable gold anomalies from soil geochemical sampling (Yukon Minfile, 2017).

In 2010 Taku Gold Corp. (Taku) acquired the Wounded Moose property from local vendors. The central area of this property is currently covered by the Sheba claims. In 2011 Taku conducted reconnaissance-style soil geochemical sampling along ridge and spur lines across the property, and established two small soil grids in the south-central and northwest areas of the present property. Both grids returned rare anomalous values, to a maximum of 32.4 ppb Au from the north-central grid, and to 113.4 ppb Au from the southern grid (Fekete and Huber, 2011). Background gold values were returned from reconnaissance sampling. Soil sampling also revealed areas of anomalous gold in the northwestern Wounded Moose property area, northwest of the present Sheba block. Gold analysis was done as part of a suite of 36 elements by 15-gram Aqua Regia digestion, with ICP-MS finish, rather than by fire assay. This area remains held by Taku Gold, although the remainder of the claim block was allowed to lapse.

6 REGIONAL GEOLOGY

6.1 Regional Geology

The Sheba property is located within the Yukon-Tanana Terrane (YTT), a major accreted terrane comprised of variably metamorphosed, highly deformed intrusive, volcanic and sedimentary rocks (Gordey and Makepeace, 2001). The majority of this terrane ranges from Neoproterozoic to late Paleozoic in age, but also includes significant Mesozoic- aged assemblages. The YTT abuts against Selwyn Basin shelf and off-shelf sedimentary and volcanic rocks to the north, formed along the margins of the Ancient North American Continent. These two terranes are separated by the 65 Ma Tintina Fault Zone, a major transpressional fault with a dextral displacement of roughly 450 km.

The major stratigraphic orientation in the Sheba area is NNW - SSE, conforming to that of most of southwestern Yukon (Figure 3). Major stratigraphic groups and formations include a large assemblage of Permian Sulphur Creek Suite orthogneiss comprised of metamorphosed granodiorite to quartz monzonite (Yukon Geology Survey, “Mapmaker” website). The Sulphur Creek Suite units occur alongside, and may be coeval with, large packages of Permian Klondike Schist, consisting of metaclastic, metavolcanic and minor ultramafic rocks, commonly chloritic, and underlying much of the main Klondike placer district. Also prominent in the area are large assemblages of Proterozoic to Devonian-aged Nasina Series, Snowcap Assemblage metaclastic rocks; these are comprised mainly of quartzite, psammite and pelites with minor greenstone and amphibolite. Large packages of Mississippian-aged Simpson Range meta-intrusive rocks, consisting of metamorphosed granodiorite, diorite and tonalite, occur to the west of the Snowcap Assemblage package. Late Cretaceous Carmacks Group rhyolitic to rhyodacitic tuffs, welded tuffs and lapilli tuffs occur throughout the project area.

6.2 Property Geology

During the 2017 program additional bedrock mapping was carried out in conjunction with the geochemical survey. The results of this are contained in Section 9.3.

The Sheba Property is underlain mainly by Permian Sulphur Creek assemblage granite to quartz monzonite intercalated with Snowcap Assemblage metasediments (Figure 3). The Sulphur Creek and coeval Klondike Schist assemblages extend northwest-southeast and underlie much of the Klondike area, including parts of the Bonanza, Hunker and Sulphur Creek drainage basins (Yukon Geological Survey, online “Mapmaker”). Regional-scale total magnetic field surveying shows a weak linear magnetic high anomaly extending NNW – SSE, likely indicating the regional trend of stratigraphy.

RGS stream sediment geochemical sampling yielded two anomalous gold values; one of 20 ppb from a site directly east of the property, the other a value of 12 ppb Au from a site in the southwestern property area (Figure 4).

6.3 Surficial Geology

The Sheba property is within “Beringia”, an area which escaped all Pleistocene glaciation, extending from west-central Yukon through the majority of central and western Alaska. Surficial deposits consist mainly of colluvium, as well as locales of “loess”, consisting of wind-blown fine sand to silt. Bedrock exposure is sparse, due to mechanical and chemical weathering of outcrop, except for areas of very rugged terrain.

Surficial deposits, particularly at lower elevations, have been developed over much longer time periods than post-glacial overburden elsewhere in Yukon. This is particularly applicable to fluvial deposits; local placer gold deposits have developed over much greater time periods than those in glaciated areas.

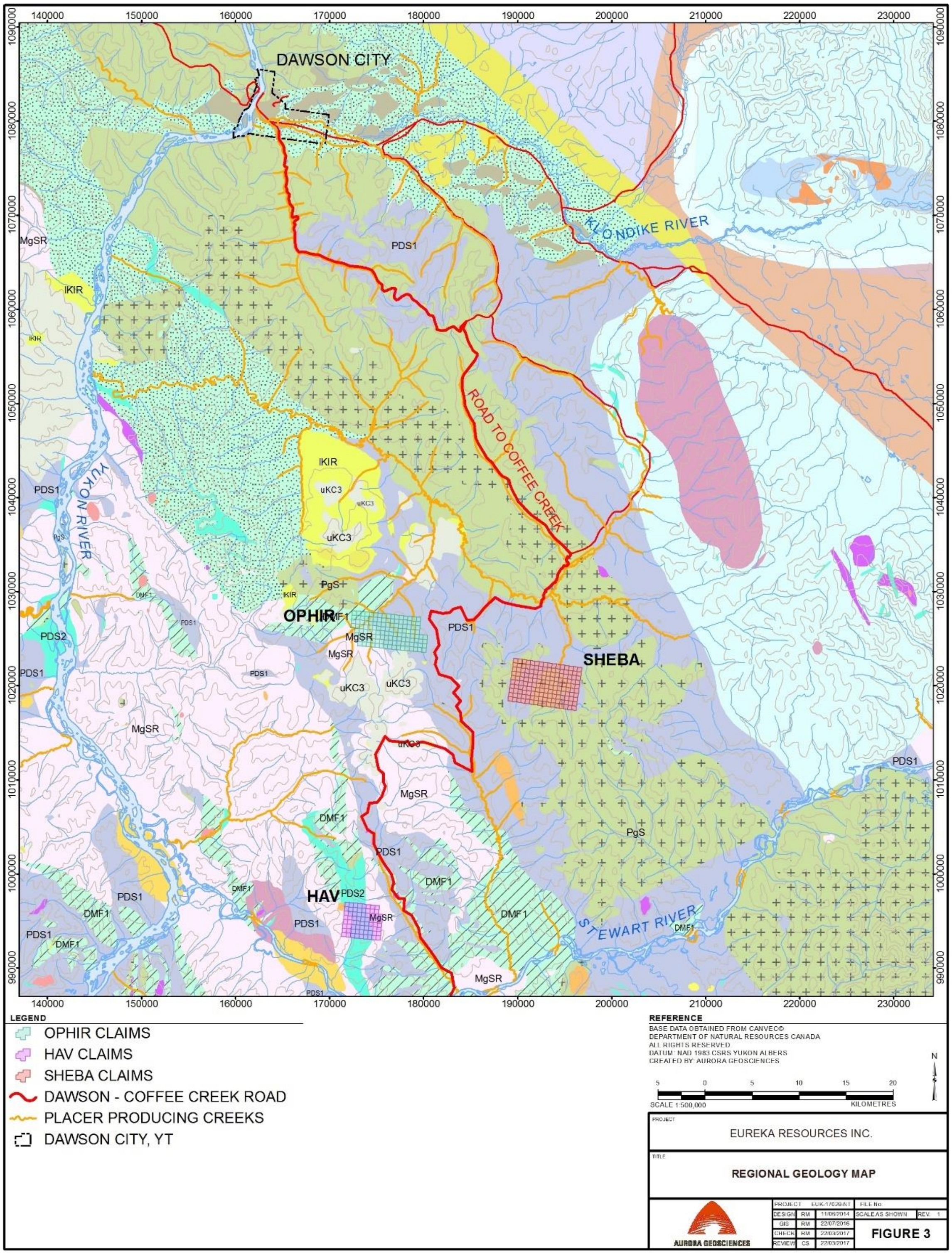

Figure 3: Regional Geology map, Klondike area

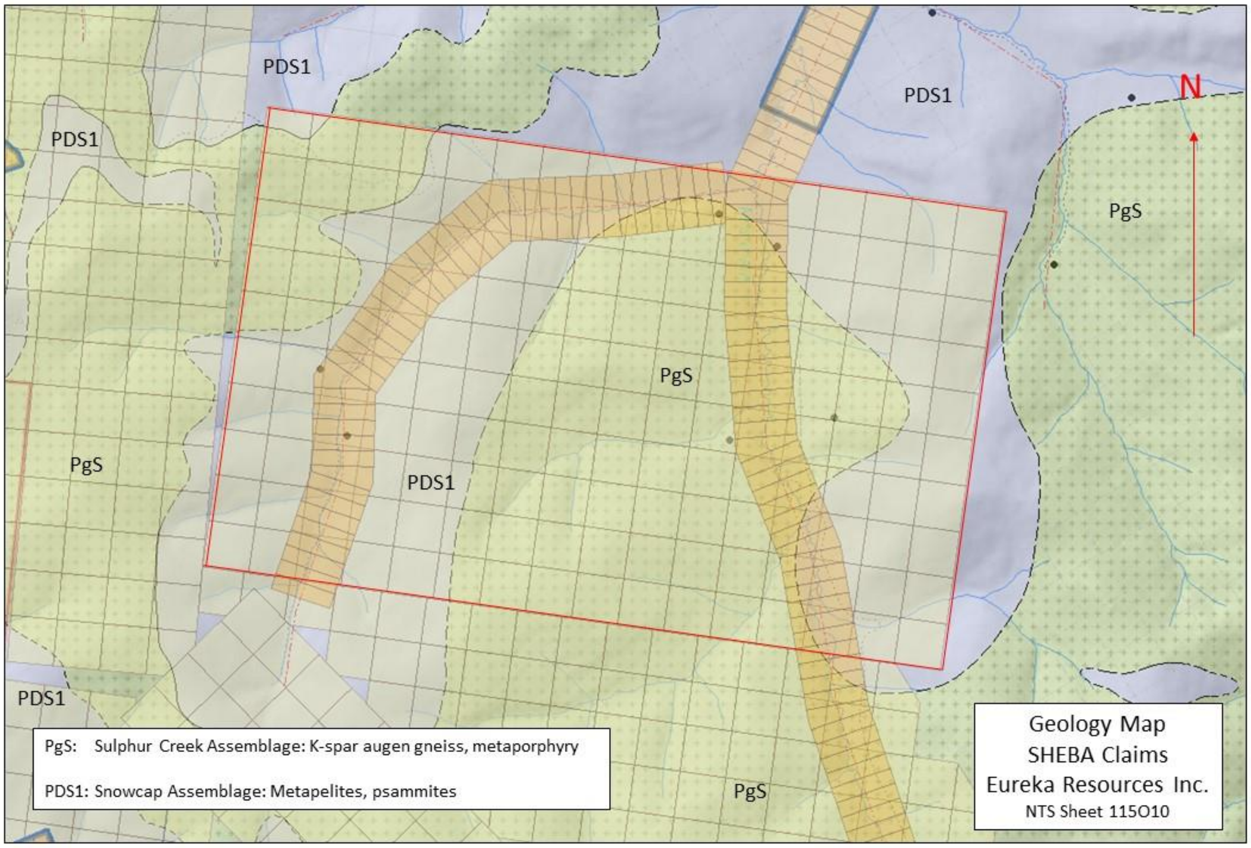

Figure 4: Property geology available from Yukon Geological Survey's Mining Map Viewer website. An updated geological map based on mapping work done by the field crew in 2017 can be found in Fig. 12.

7 DEPOSIT MODELS

The Sheba Property is located towards the southern end of the main Klondike placer mining camp extending southeast from the Klondike River directly east of Dawson. To date, hard rock gold +/- silver occurrences within this have been ascertained to have an orogenic origin, with fluid movement and emplacement related to deep-seated crustal faults rather than local, shallowly emplaced intrusive bodies. Although the Klondike area is located within the 70 – 110 Ma Tintina Gold Belt, an arcuate belt of felsic to intermediate intrusions extending from Southwest Alaska through Fairbanks, Dawson City and terminating in the Watson Lake areas, mineralized zones in the Klondike to date do not have the characteristics of intrusion-related systems. Mineralization typically consists of mesothermal quartz veins, hosting gold +/- silver, and marked by the typical pathfinder elements of arsenic (As), antimony (Sb), and, for silver, lead (Pb) and zinc (Zn). The dominant stratigraphic orientation within the Klondike gold camp is NNW – SSE (Figure 3), likely paralleling that of mineralized structures within this district.

The "Orogenic Gold" setting is characterized by larger auriferous quartz veins, potentially to 1.0 km in length and multiple metres in width. Although mineralized quartz veining may be abundant, in the orogenic setting there is no evidence of intrusive activity, such as hornfels aureoles or contact metamorphic minerals, skarn or replacement-style mineralization (Hart and Lewis, 2005). Rather, the structural conduits are district-scale deep-seated "crustal" faults that allow for hydrothermal fluid movement from a typically unknown source. The mechanism for emplacement in local structures is similar to that of intrusion-related veining, whereby mineralized zones develop from fluid movement from the main fault conduit into splays or other areas of "structural preparation".

8 2017 EXPLORATION PROGRAM

The 2017 field program on the Sheba property consisted of five components: (1) a ridge-and-spur and contour soil survey, (2) a stream silt sampling program, (3) reconnaissance bedrock mapping, (4) prospecting, and (5) an "Airborne Inductively Induced Polarization" (AIIP) and an airborne magnetic survey conducted by Geotech Ltd., in the spring of 2017. A report on the methods and results of that survey can be found in Appendix VI.

8.1 Soil Geochemical Sampling

8.1.1 Crew and Equipment

The following personnel conducted the survey:

Nigel Bocking	Crew Chief	Sept 9 – Sept 19, 2017
Heiko Mueller	Geologist	Sept 9 – Sept 19, 2017
Tyler Legg	Geologist	Sept 9 – Sept 19, 2017
Ryan Lenberg	Geologist	Sept 9 – Sept 19, 2017

The crew was equipped with the following instruments and equipment:

Data Processing	1	Computer: geologist's software package
Survey Equipment	4	Sampling tools including mattocks and soil augers.
	4	Non-differential GPS
		Sampling consumables including soil (Kraft) bags, tags, assay books, and flagging.
	4	Juniper CT-5 Handhelds with integrated GPS/GLONASS receivers, using Avenza Maps application
Communication	4	VHF radios (mobile / base)
	1	SAT phone - Iridium
Safety	1	First Aid kit
	6	Bear Safety (Bangers, Spray)
	1	Field Survival kit
Support	1	Office box and equipment repair tools

Soil samples were collected using mattocks and/or soil augers depending on ground conditions, and placed in kraft paper bags.

8.1.2 Line Specifications

On the Sheba property both ridge-and-spur and contour lines were executed in order to maximize the coverage of the property. These lines were concentrated in areas of geochemical anomalies identified from previous work and to cover conductivity (mid dB/DT) and magnetic anomalies identified in the airborne VTEM survey conducted in the spring of 2017. Sampling was conducted at 50m intervals along all lines on the Sheba property.

8.1.3 Survey Specifications

The objective of the soil survey was to collect C horizon samples. As the Sheba property remained unglaciated during the Pleistocene epoch the parent material for the soil is mostly weathered bedrock. Therefore, the geochemistry of the C horizon closely reflects that of the underlying bedrock. Along hillsides the geochemistry may represent transported soil values, due to downslope dispersion.

8.1.4 Sampling Methodology

Samples were collected using hand augers to drill through the soil profile and extract material at depth. In rocky and mossy areas, mattocks were used to dig through the moss and rocks to find an area suitable for sampling with the augers. In rare cases, of exceptionally rocky ground, the samples were collected using just the mattock. In certain areas, the crew encountered boulders and/or permafrost that could not be penetrated before they were able to reach the C horizon. In these circumstances available material was sampled. This material was typically of B/C horizon, and rarely of B horizon alone; if neither could be obtained then no sample was collected. 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. Field duplicates were taken at a rate of one per every 20 samples and collected by obtaining double the amount of material from the same sample location. The sample material was then homogenized and split between two sample bags, resulting in a primary sample and a duplicate with a different tag number.

8.1.5 Analysis

Soil samples were submitted to Bureau Veritas Commodities Canada Ltd. in Whitehorse, YT for preparation, with the resulting pulps sent to Vancouver for analysis. The preparation code used was SS80 and the analysis package includes Aqua Regia 33 element ICP (AQ 300) and fire assay for gold (FA 330-Au).

8.2 Silt Geochemical Sampling

8.2.1 Crew and Equipment

The following personnel conducted stream silt sampling:

Nigel Bocking	Crew Chief	Sept 9 – Sept 19, 2017
Heiko Mueller	Geologist	Sept 9 – Sept 19, 2017
Tyler Legg	Geologist	Sept 9 – Sept 19, 2017
Ryan Lenberg	Geologist	Sept 9 – Sept 19, 2017

The crew was equipped with the following instruments and equipment:

Data Processing	1	Computer: geologist's software package
Survey Equipment	4	Sampling tools including mattocks and trowels.
	4	Non-differential GPS

		Sampling consumables including soil (Kraft) bags, tags, assay books, and flagging.
	4	Juniper CT-5 Handhelds with integrated GPS/GLONASS receivers, using Avenza Maps application
Communication	4	VHF radios (mobile / base)
	1	SAT phone - Iridium
Safety	1	First Aid kit
	6	Bear Safety (Bangers, Spray)
	1	Field Survival kit
Support	1	Office box and equipment repair tools

8.2.2 Survey Specifications

Silt sediment sampling was carried out on the Sheba property. The objective of this survey was to identify geochemical anomalies in drainages to compliment the soil lines and collect samples downstream of geophysical anomalies identified from the 2017 airborne VTEM survey. Sampling was conducted at 250m intervals along creeks and tributaries. At stream confluences, additional samples were collected from the main and tributary streams directly upstream of the confluence. Prior to the start of the field program, potential sample sites were identified using topographic maps and LANDSAT data.

8.2.3 Sampling Methodology

Composite samples were collected at specific locations, with the objective of achieving a representative sample, primarily composed of fine material. Samples were collected using trowels and occasionally mattocks depending on the ease of access to the stream. Material was placed in paper “kraft” bags and closed with a cable tie (“zap-strap”), which were subsequently dried in camp prior to packaging in rice bags for shipment to the lab. Field duplicates were collected at a rate of one per 20 samples and collected by obtaining double the amount of material from the same sample location. The sample material was then homogenized and split between two sample bags, resulting in the primary sample and a duplicate with a different tag number.

8.2.4 Analysis

Silt samples were submitted to Bureau Veritas Commodities Canada Ltd. in Whitehorse, YT for preparation, with the pulps shipped to Vancouver for actual analysis. The preparation code used was SS80 and the analysis package includes Aqua Regia 33 element ICP-ES (AQ 300) and fire assay for gold (FA 330-Au).

8.3 Geological Mapping and Prospecting

8.3.1 Crew and Equipment

The following personnel conducted geological mapping and prospecting on the Sheba claims:

Nigel Bocking	Crew Chief	Sept 9 – Sept 19, 2017
Heiko Mueller	Geologist	Sept 9 – Sept 19, 2017

Tyler Legg	Geologist	Sept 9 – Sept 19, 2017
Ryan Lenberg	Geologist	Sept 9 – Sept 19, 2017

The crew was equipped with the following instruments and equipment:

Data Processing	1	Computer: geologist's software package
Survey Equipment	4	Mattocks
	4	Non-differential GPS, compasses, transits
		Sampling consumables including poly bags, tags, assay books, and flagging.
	4	Juniper CT-5 Handhelds with integrated GPS/GLONASS receivers, using Avenza Maps application
Communication	4	VHF radios (mobile / base)
	1	SAT phone - Iridium
Safety	1	First Aid kit
	6	Bear Safety (Bangers, Spray)
	1	Field Survival kit
Support	1	Office box and equipment repair tools

8.3.2 Methodology

Geological mapping and prospecting work was carried out by the field crew in concurrence with the other parts of the survey. Due to limited outcrop coverage the crew also recorded observations about the lithology of rock "float" boulders observed on the properties. As these properties were not glaciated, the lithology of boulders can provide useful information about the underlying or upslope geology in the absence of outcrop and subcrop.

8.3.3 Analysis

Rock samples were submitted to Bureau Veritas Commodities Canada Ltd. in Whitehorse, YT for preparation, with the resultant pulps sent to Vancouver for analysis. The preparation code used was PRP90-250 and the analysis package includes Aqua Regia 33 element ICP (AQ 300) and fire assay for gold (FA 350-Au).

8.4 Airborne Geophysical Survey

The 2017 work program consisted of an "Airborne Inductively Induced Polarization (AIIP)" survey combined with an airborne magnetic survey, both conducted by Geotech Ltd. from May 6 to 17, 2017, across the Sheba property. The main geophysical sensors included a "Versatile Time Domain Electromagnetic" (VTEM™ ET) system and a caesium magnetometer (Kwan and Prikhodko, 2017). The flight lines were oriented at an azimuth of N 70^o E, at a nominal line spacing of 100 metres. Approximately 420 line-kilometres of AIIP and magnetic surveying were flown.

The program was designed to identify resistive units at relatively shallow depths. To achieve this, the AIIP survey consisted of a series of up to 20 readings, or "gates", spaced a few milliseconds apart, which have been divided into "Early Time Gate" and "Mid Time Gate" plots. The early time gate plot favours identification of shallow, poorly conductive horizons, whereas the mid-time blocks are more adept at identifying deeper, more strongly conductive zones. Plots are provided for each time gate and for "Total Magnetic Intensity" (TMI).

The airborne surveys were supported by two personnel employed by Aurora Geosciences Ltd., which placed helicopter fuel caches at two locations along the Black Hills Creek Road. The crew also established landing zones for the helicopter and airborne surveying equipment. Following the completion of the field program, all remaining fuel barrels, including empty barrels, and any other materials were removed from the fuel cache sites. The amount of fuel stored per site was less than the threshold for a fuel storage permit.

9 INTERPRETATION AND DISCUSSION

9.1 Soil Sampling

A total of 370 soil samples (352 samples, 18 field duplicates) were collected on the Sheba property (Figure 3). The soil on the Sheba property has a well-developed C horizon, easily sampled with a soil auger (typically 30 to 50cm below ground surface). Most samples were moist at the time of collection. Exceptionally wet samples were dried prior to packaging for shipment. Permafrost issues were encountered on one contour line on a north facing slope. A large section of the Sheba property was burned in 2017, in some cases significantly reducing the thickness of the organic layer of the soil horizon. It also appears that these burns may have contributed to the development of a large number of small streams, mostly underground (beneath a burnt vegetation mat), and likely fed by melting permafrost and unabsorbed runoff.

The results of the soil program for Au and the commonly associated pathfinder elements Ag, As, Cu, Pb and Zn have been plotted on Figures 6, 7, 8, 9, 10, and 11. Antimony (Sb) was not found in significant concentrations in the soils of the Sheba property to warrant plotting it. A table of sample locations and complete geochemical data can be found in Appendix II.

There are several anomalous values (>10 ppb Au) but they are typically limited to one or two samples and do not show anomalous areas of significant size (Fig. 6). There is an area of elevated As in soils in the northwest corner of the property (Fig. 8), but this does not correlate with a significant elevation in Au or other pathfinder element values. There is no significant association between anomalous soil values and corresponding anomalous silt values in nearby drainages.

The remainder of the elements did not show significant enrichment in the soils on the Sheba property. Cu and Zn analysis showed only very minor scattered anomalies (Figs. 9 and 11). The results for Ag and Pb were not significantly anomalous (Figs. 7 and 10), though some spatial relationships can be seen in lead values.

9.2 Silt Sampling

A total of 67 (63 regular and 4 duplicate) samples were collected on the Sheba property (Figure 6). Due to the size of the property, not all of the drainages could be sampled. Drainages in proximity to geophysical anomalies were targeted for sampling. Forest fires burned large parts of the Sheba property in 2017, resulting in an extensive amount of direct runoff both over and under the remains of the vegetation mat. Due to the small size, and typically underground nature of these burn-related runoffs, they could not be sampled. This direct overland runoff, as opposed to stream sediment loads, may have affected the hydrological controls on the stream sediment geochemistry.

The results of the silt program for Au and the commonly associated pathfinder elements Ag, As, Cu, Pb and Zn have been plotted on Figures 6, 7, 8, 9, 10, and 11. Antimony (Sb) was not found in significant concentrations in the silt samples taken on the Sheba property to warrant plotting it. A table of sample locations and complete geochemical data can be found in Appendix III.

There are only a few scattered anomalous Au values returned from sampling of the drainages (Fig. 6). One is quite significant (50 ppb); however upstream samples returned sub-anomalous values, suggesting that the gold source is confined to the area or alternatively is the result of hydrological concentration of gold from minor isolated bedrock occurrences. Additionally, there are no significant Au-in-soil anomalies in the vicinity of the 50-ppb anomaly, however, not all potential source slopes in the immediate surroundings were sampled.

Consistently elevated arsenic levels in silts occur in the northwest corner of the property (Fig. 8) where they are coincident with an As-in-soil anomaly. Elevated Cu values occur in a drainage near the centre of the map (Fig. 9), suggesting there may be some minor copper mineralization in the surrounding area, though no anomalous values were detected in soil geochemical survey results. Pb and Zn results did not indicate any significant anomalies, though there are areas of elevated values of these elements (Figs. 10 and 11). No Ag values above detection limit were returned from silts on the Sheba property (Fig. 7).

9.3 Mapping

Bedrock exposure on the Sheba property is extremely limited (<1%), and is exclusively confined to ridgelines and spurs. Evidence from the available exposures suggests that the entire property is underlain by mica schist (dominantly muscovite with some chlorite and biotite) and foliated quartzite. This package of metasedimentary rocks is typical of the Snowcap Assemblage (Fig. 12). Field mapping showed that outcrops along this ridge were exclusively metasedimentary in origin; however, boulders of metagranite were found in several places on the property, primarily on the western side close to Eureka Dome (Sulphur Creek Assemblage), but also on ridgelines farther to the east. These boulders suggest that some small granitic units, including dykes and sills and likely associated with the intrusion of the Eureka Dome, underlie the property but are not exposed as outcrop or subcrop. Additionally, very rare boulders of volcanic breccia with felsic clasts and an intermediate groundmass were found on the western edge of the property, but were not observed in outcrop or subcrop.

Due to the lack of outcrop there is little observable structural geology on the property. Bedding measurements that were made indicate that the schists are relatively flat lying across the property (dip angles less than 25 degrees). A recumbent fold was observed on the extreme southwest edge of the property with a fold axis plunging to the north at 30 degrees.

9.4 Prospecting

A total of 36 rock samples were collected on the property. However, prospecting was hampered by limited exposure and most samples were collected from boulders or subcrop float. Little sulphide mineralization was found on the property; however, a few samples contained disseminated pyrite and/or arsenopyrite. These sulphides were found within the metasedimentary rocks and were not associated with any veining. Iron and manganese oxides in association with veins and breccia are more abundant. The majority of the rocks sampled reflected this observation.

The majority of results from the prospecting program were poor (Figs. 13, 14, 15, 16, 17, and 18, Appendix IV). However, one sample (1909129) returned 268 ppb Au in conjunction with 1,204 ppm Pb and >100 ppm Ag (above upper detection limit for ICP). This anomalous sample was of an piece of oxidized vuggy quartz float (Fig. 5) sampled in the northwestern corner of the property. The area where this sample was found shows abundant oxidation and quartz veining in subcrop. Another sample (1909011), taken in close proximity to 1909129, returned 20 ppb Au with 7.1 ppm Ag. This sample was of a biotite-chlorite schist with abundant vuggy, oxidized quartz veins ranging from 5 to 15 mm in size. Rock samples in the surrounding area to this sample exhibited elevated levels of Sb (up to 114 ppm), As (up to 648 ppm), and Cu (up to 97 ppm). The anomalous Sb value came from a highly oxidized boulder of volcanic breccia. These samples correspond spatially to the location of the arsenic anomaly indicated by soil and silt samples in the northwestern corner of the property.

Figure 5: Sample number 1909129. This sample returned 268 ppb Au, 1204 ppm Pb and more than 100 ppm Ag. Sample is a vuggy quartz vein with abundant limonite and minor Mn-oxide.

9.5 Airborne Geophysical Survey

Near-surface sources for AIIP conductors include clays, most metallic sulphides, some oxides, including magnetite, and graphite (Kwan and Prikhodko, 2017). Early time gate plots also typically detect surficial deposits, particularly along larger valley bottoms and stream drainages.

The Early-Time Gate plot (Figure 19) displays areas of high conductivity along both forks of Wounded Moose Creek, suggesting the presence of surficial clays. However, this plot also indicates the presence of two linear conductors crossing in the west-central property area (Figure 10). Another area of high conductivity occurs in the central property area, coincident with a ridgeline. Other areas of high conductivity occur in the north-central property area and the northwestern limits of the survey.

The Mid-Time Gate plot (Figure 20) reveals two areas of strong conductivity; one in the northwestern property area, and the other in the east-central area. Both lie along larger watercourses, although the topography in the northwestern anomaly area is fairly rugged, suggesting a non-surficial source. The linear conductors and the conductor in the central area are more subdued, although still visible. One other area of interest is a strongly conductive feature of limited aerial extent in the south-central property area, not visible in the early time gate plot.

The Total Magnetic Intensity (TMI) plot reveals aerially extensive magnetic “high” signatures in the northern and southeastern property areas (Figure 21), likely representing Proterozoic to Devonian Snowcap Assemblage metapelites and psammites. The TMI plot also reveals a strong magnetic “high” anomaly coincident with the chargeability feature visible on the Mid-Time Gate plot. Also notable is a fairly pronounced NE – SW trending magnetic signatures in the west-central area, coincident with chargeability features shown on the Early-Time Gate plot.

Review of the Early and Mid-Time electromagnetic survey plots, combined with the TMI plot, indicates the presence of a NE-SW trending lineation marked in particular by multiple magnetic high linears, as well as coincident moderately conductive features. Although the property area has not undergone detailed geological mapping, these features likely represent structural rather than lithological controls. The interpreted structural fabric extends obliquely to the dominant NNW – SSE stratigraphic fabric of west-central Yukon. The lineation is likely to be a fairly local feature, although the full length of the individual linears are unknown and likely extend beyond property boundaries. Property-scale structural features such as these, including faults and shear zones, are more likely to be mineralized than district or regional-scale features. Any mineralization in the Sheba property area may be controlled by these features.

One noteworthy feature is an intersection area of two conductive features shown on the Early-Time Gate plot (Figure 19). Intersection areas provide for greater “structural preparation”, amenable to movement of metal-bearing hydrothermal fluids, and subsequent emplacement of metal-bearing sulphide mineralization.

The magnetic “high” feature in the south-central property area shown on the TMI plot may represent a buried intrusive unit, such as a stock. No Tintina Gold Belt intrusions are known in the area; however, the fairly circular nature of the feature suggests potential for a small stock. The near-absence of a conductive anomaly in the Early-Time Gate plot (Figure 19) versus the Mid-Time plot (Figure 20) suggests the feature is sub-surface.

The majority of the conductive units within both the Early-Time and Mid-Time plots are coincident with the main stream courses, suggesting these represent surficial deposits. An exception is the large conductive anomaly in the north-central property area (Figure 20). Although it occurs along a stream confluence, the aerial extent and intensity, combined with fairly rugged local topography, suggest it may not be entirely explained by surficial deposits.

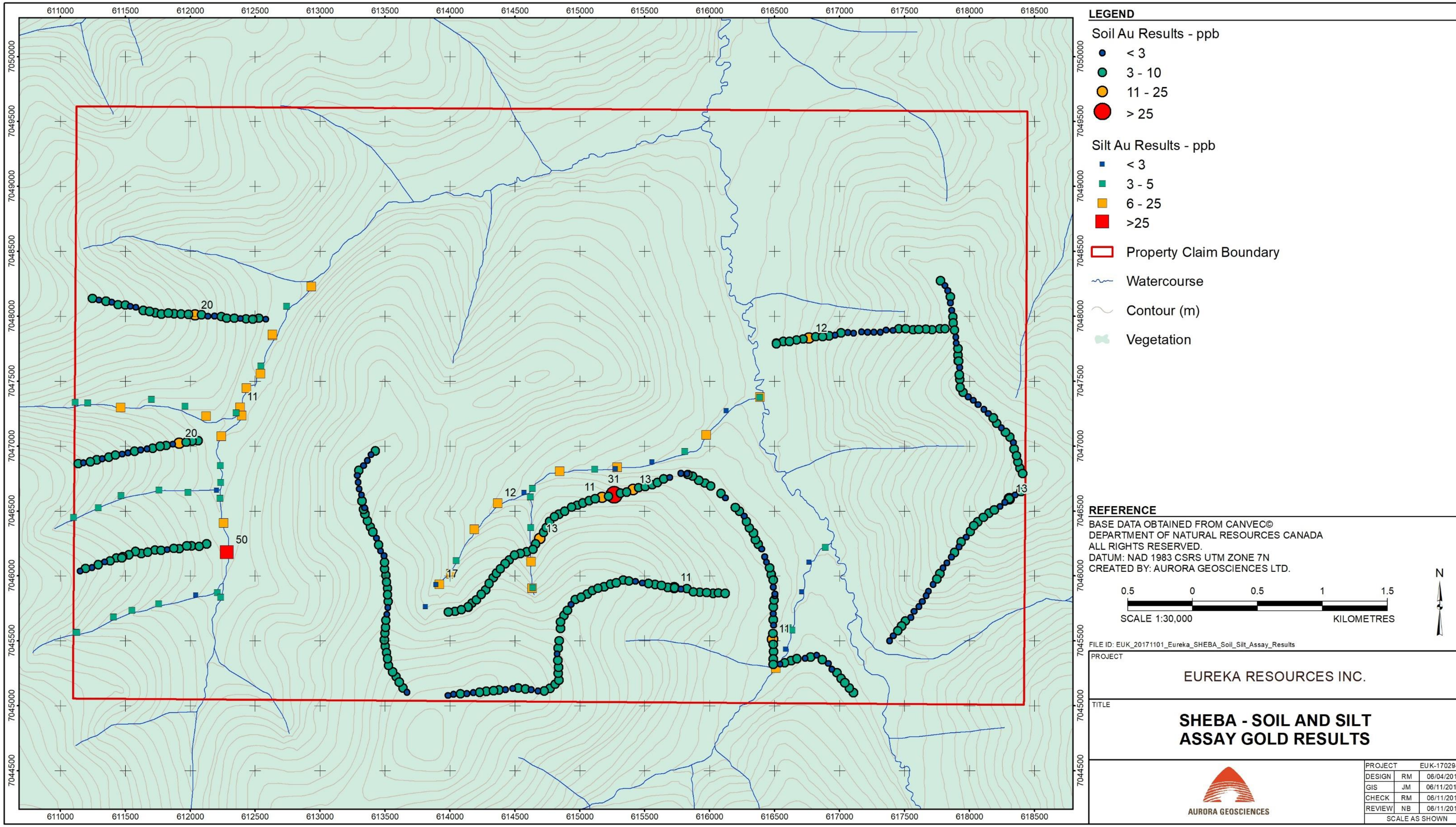

Figure 6: Au values in soil and silt samples on the Sheba property.

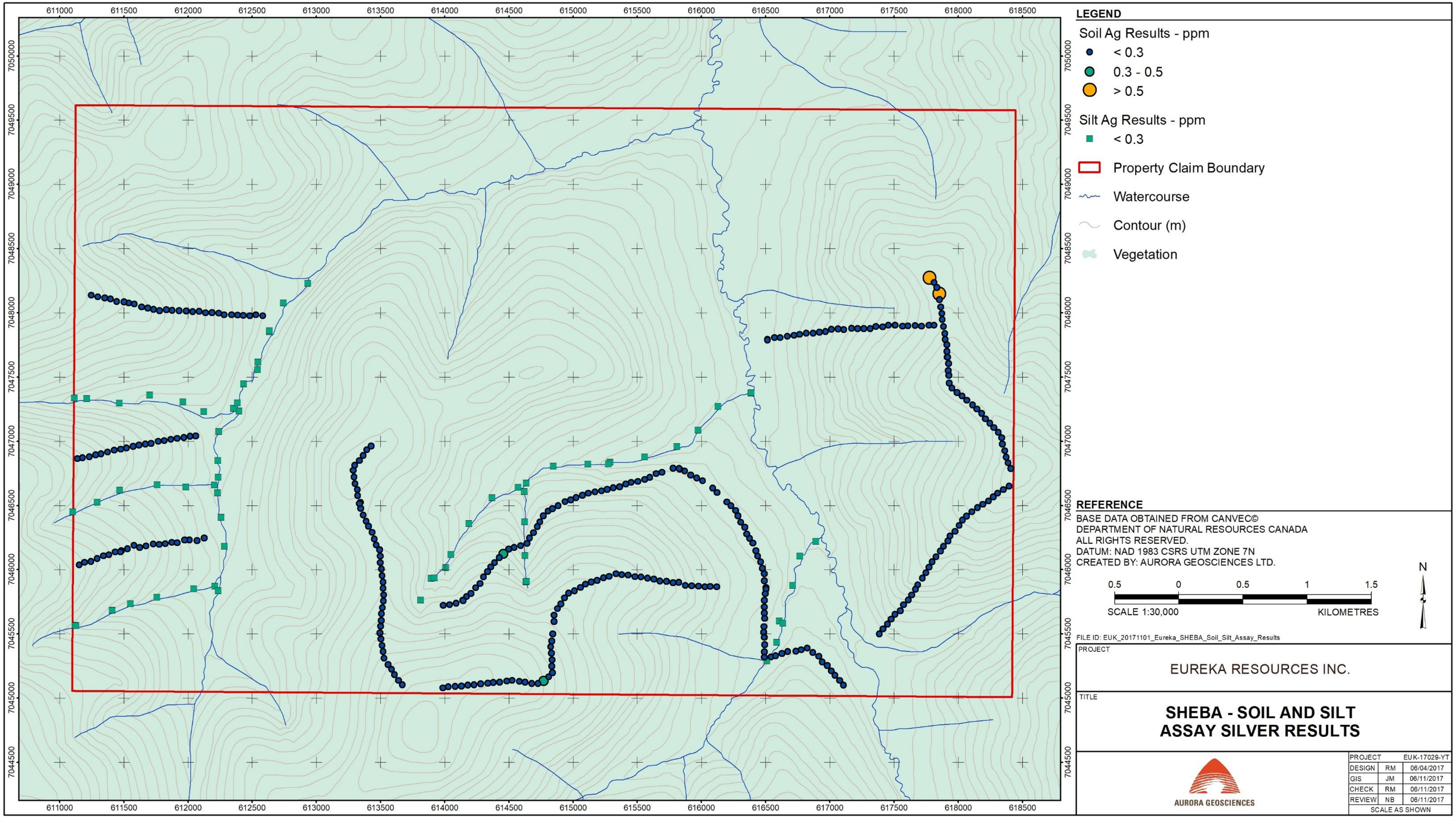

Figure 7: Ag values in soil and silt samples on the Sheba property.

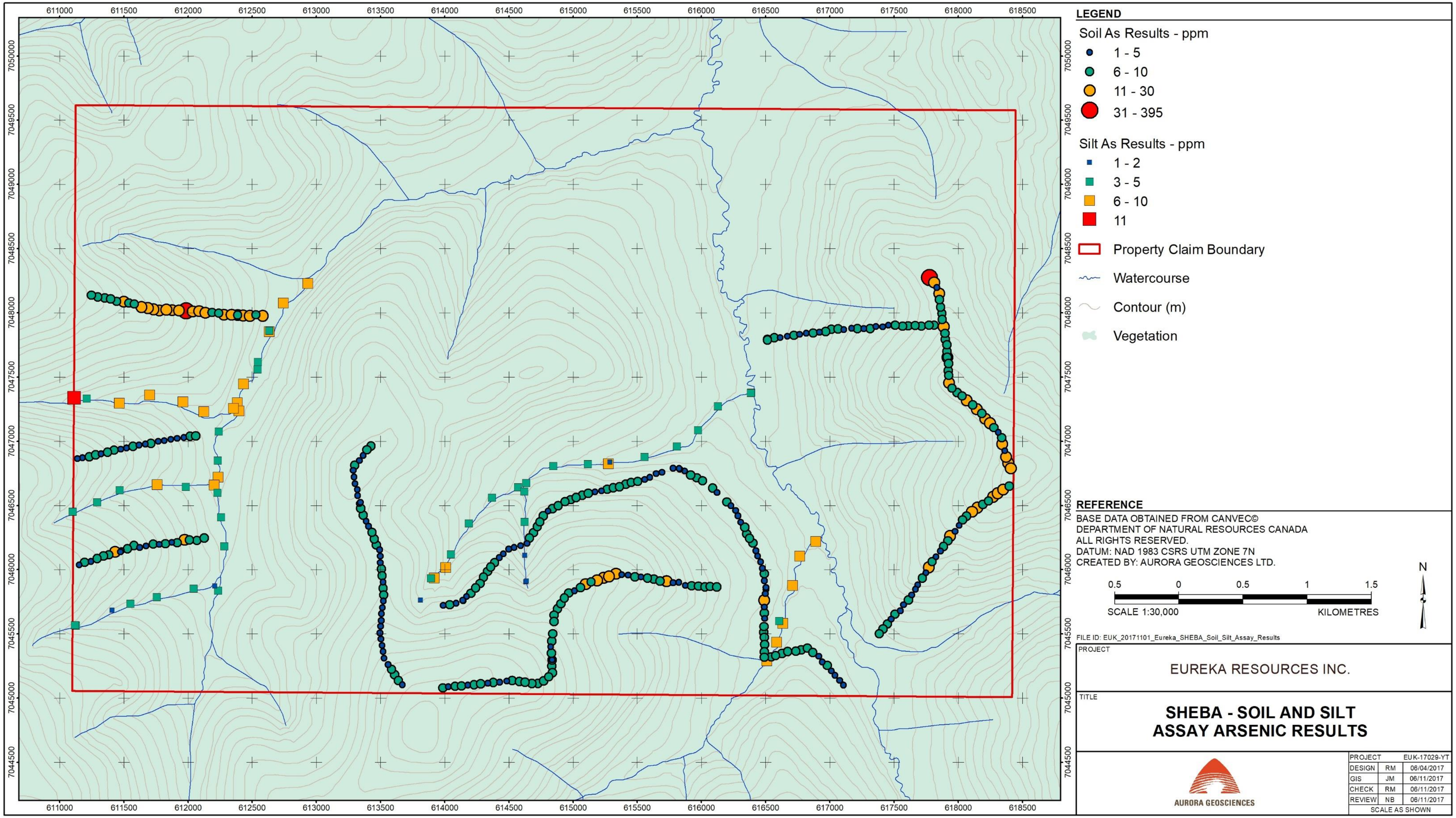

Figure 8: As values in soil and silt samples on the Sheba property.

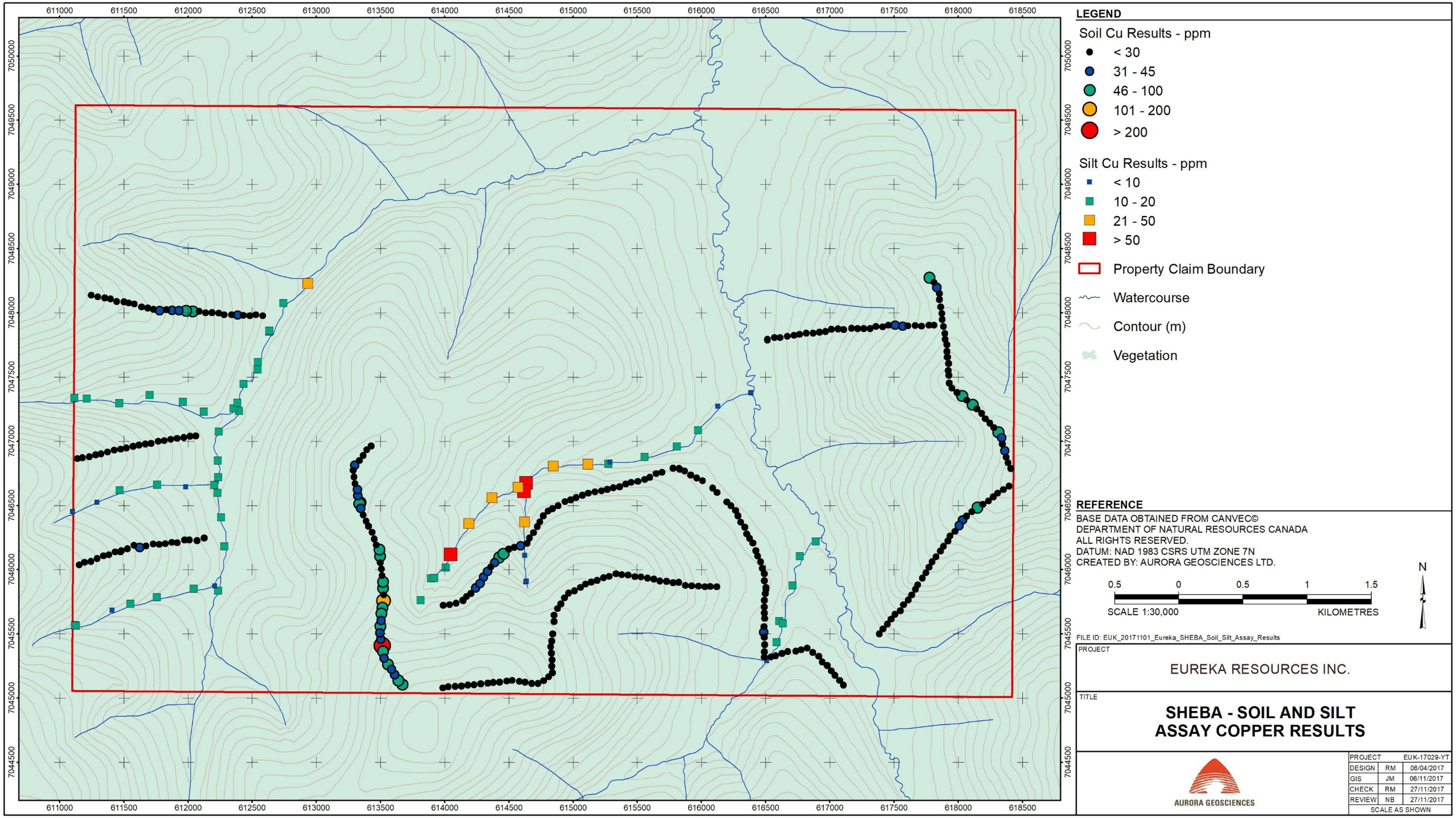

Figure 9: Cu values in soil and silt samples on the Sheba property.

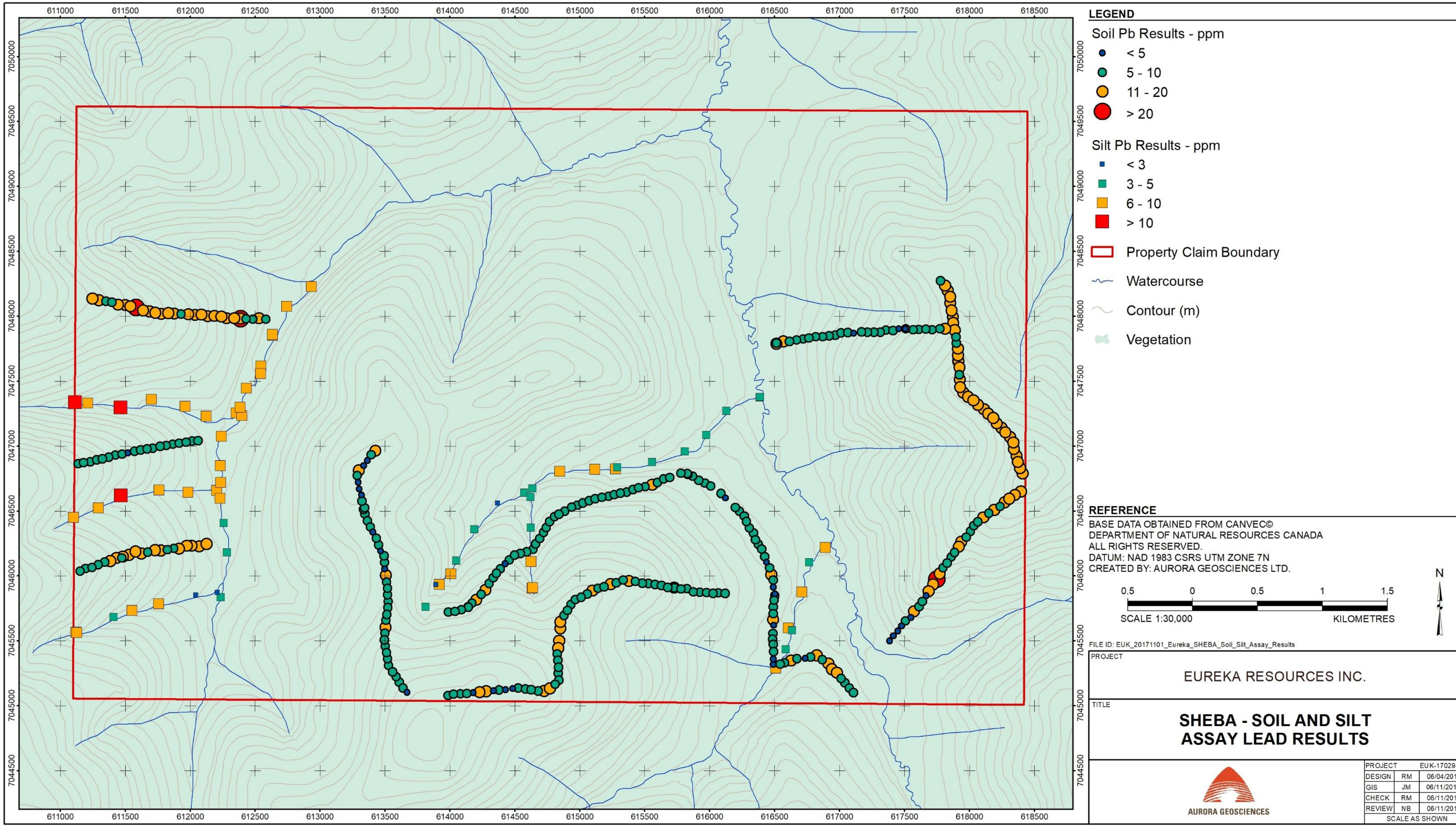

Figure 10: Pb values in soil and silt samples on the Sheba property.

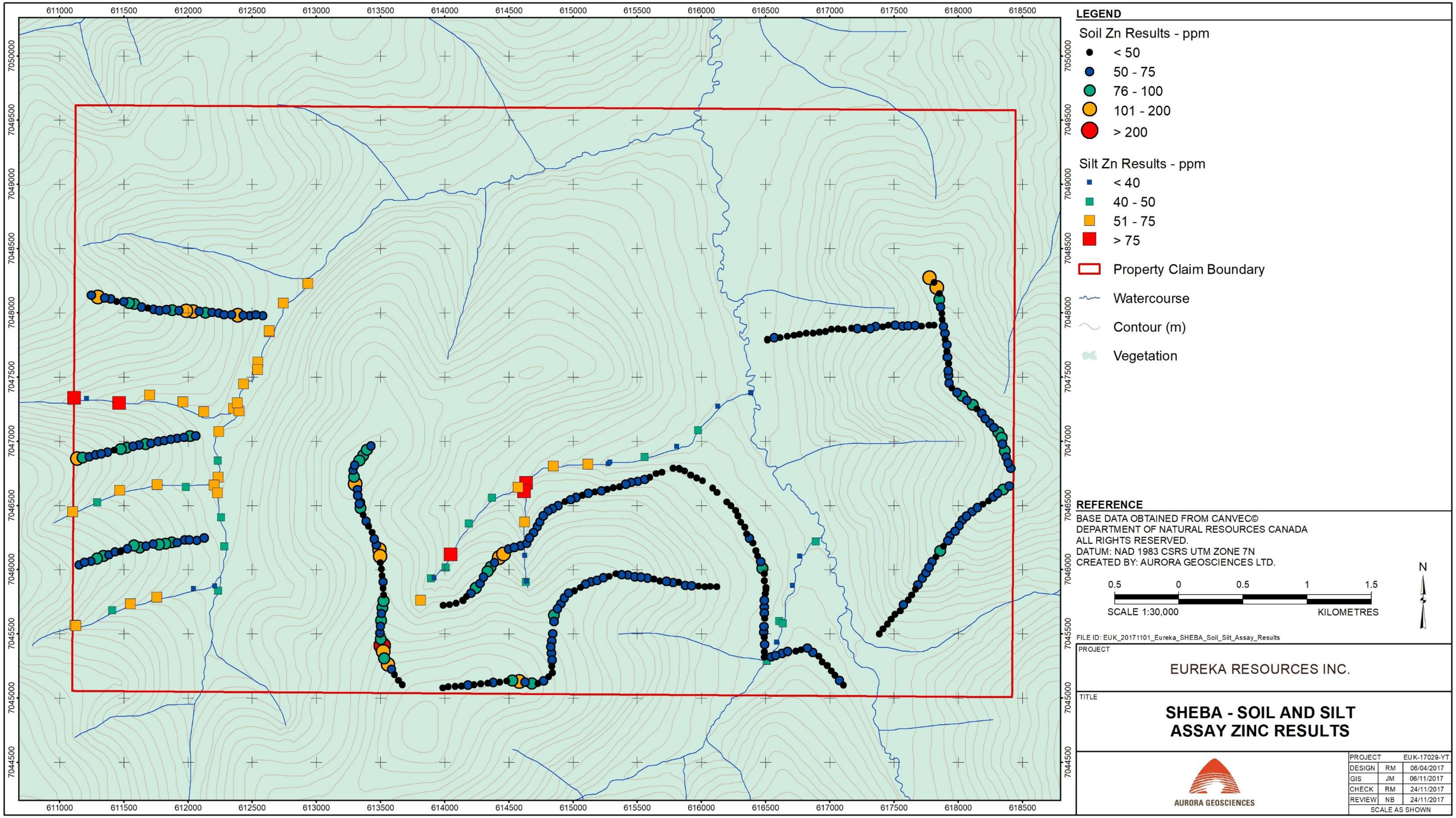

Figure 11: Zinc values in soil and silt samples on the Sheba property.

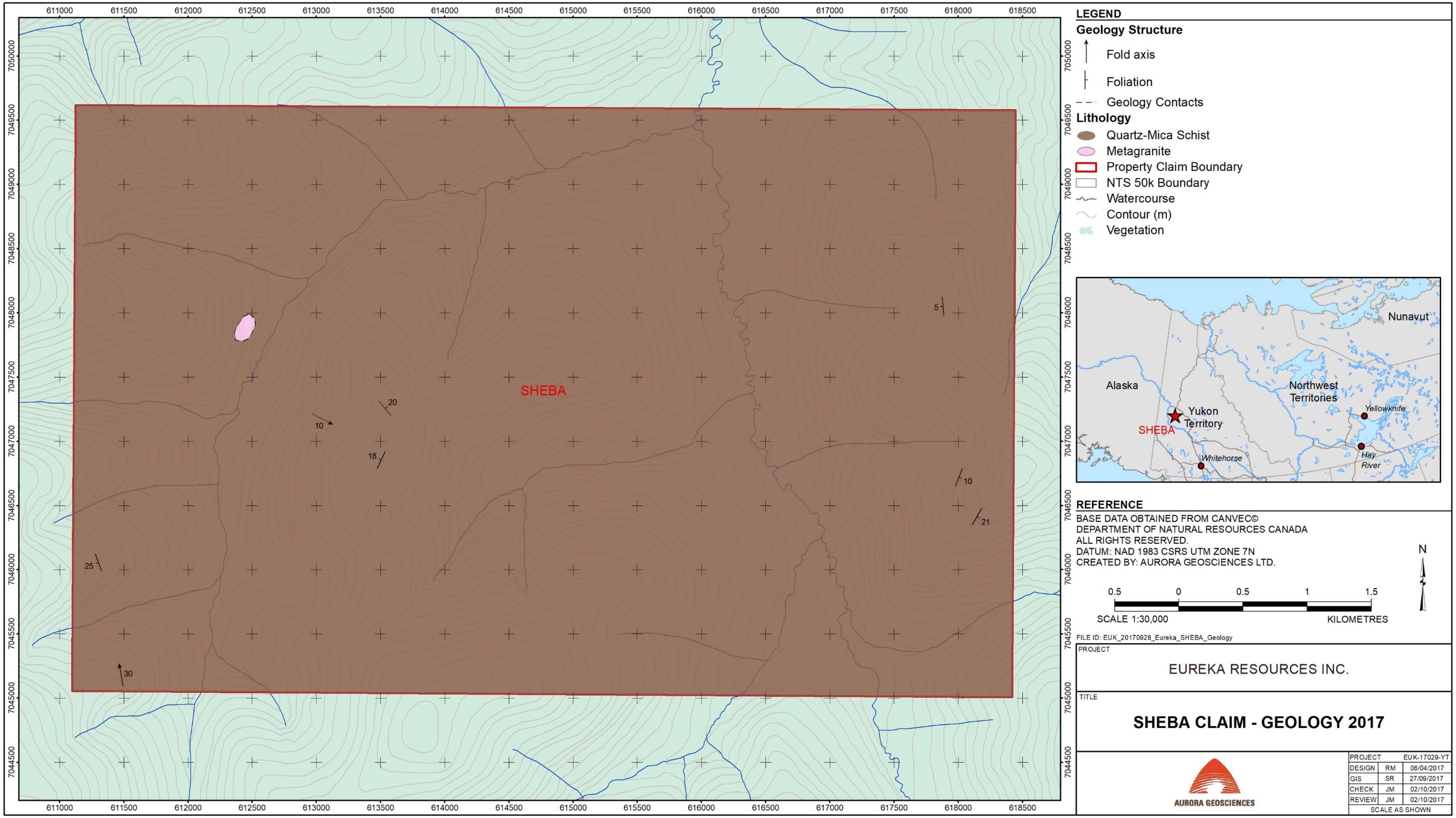

Figure 12: Geological map of the Sheba property based on mapping done during the 2017 field program.

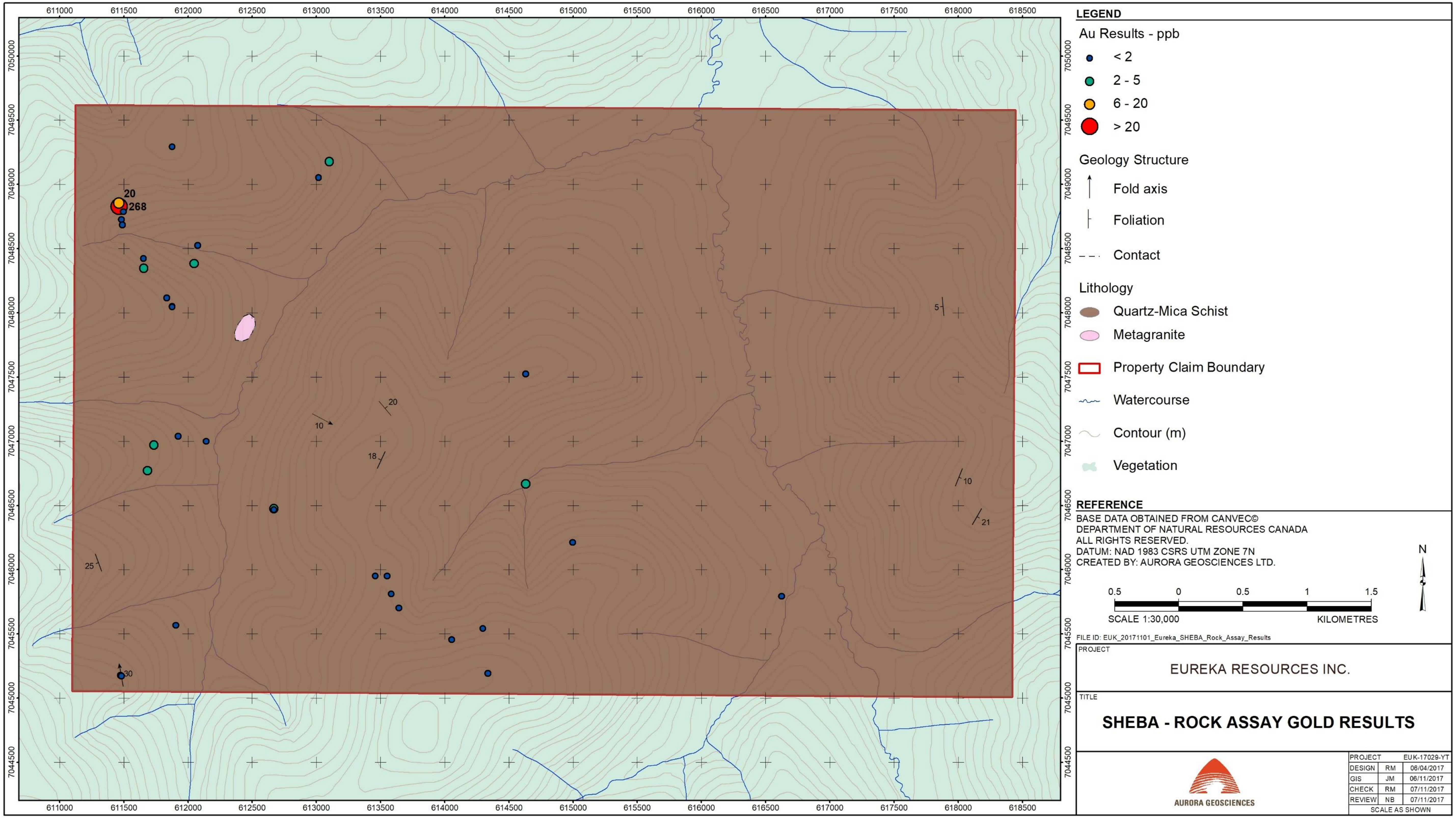

Figure 13: Au assay results for rock samples collected during the 2017 prospecting program on the Sheba Property.

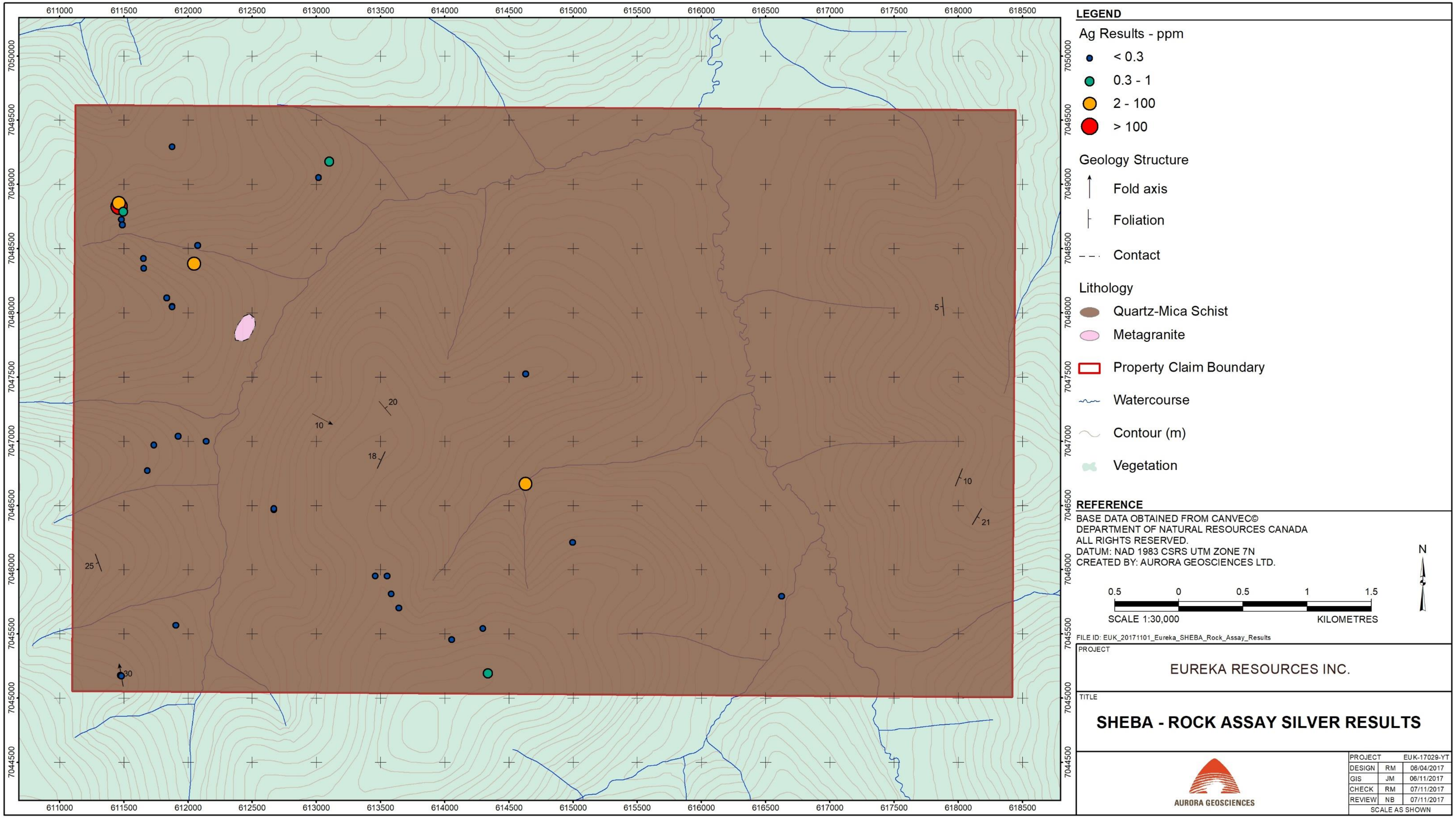

Figure 14: Ag values for rock samples collected during the 2017 prospecting program on the Sheba property.

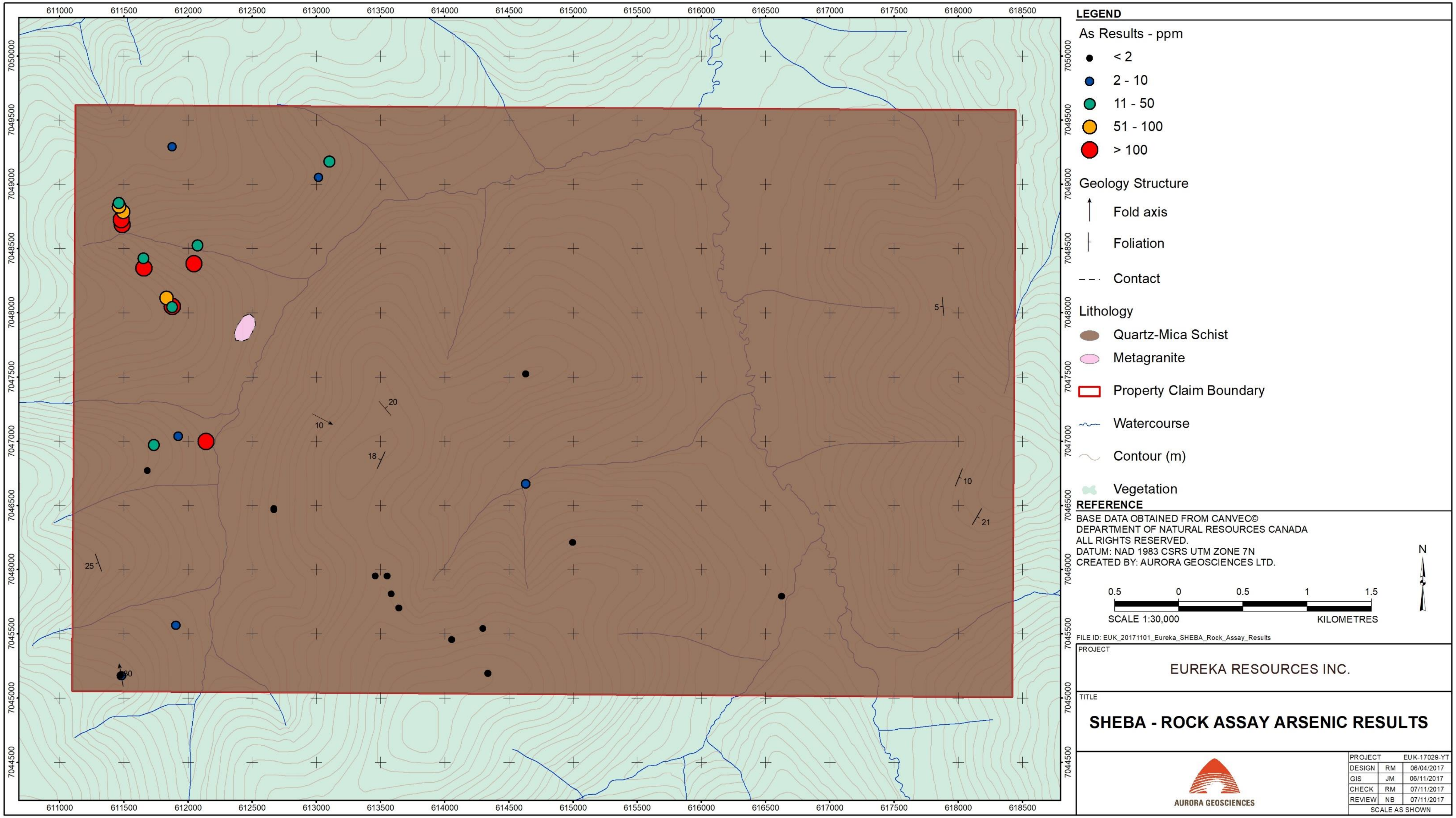

Figure 15: As values for rock samples collected during the 2017 prospecting program on the Sheba property.

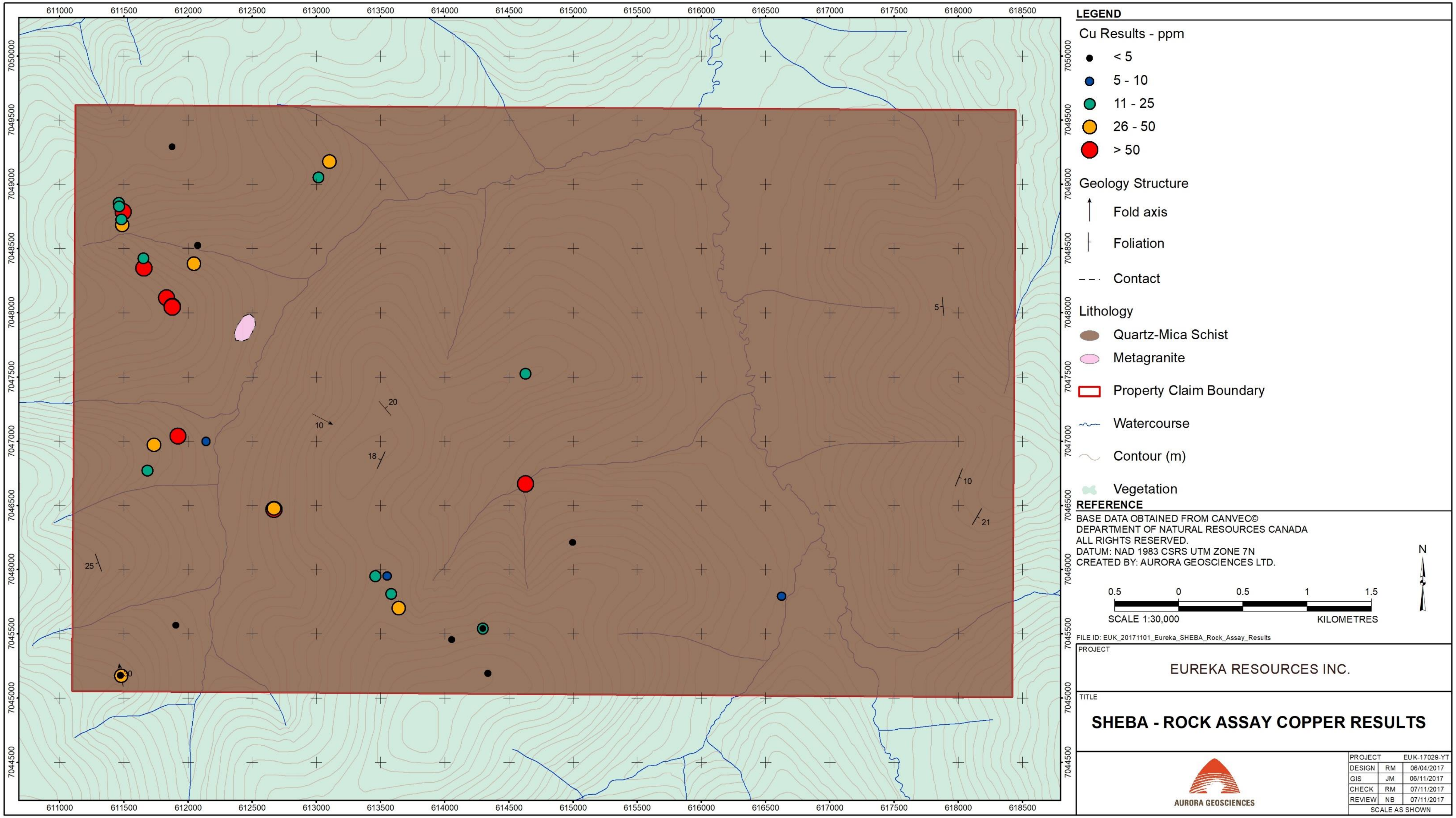

Figure 16: Cu values for rock samples collected during the 2017 prospecting program on the Sheba property.

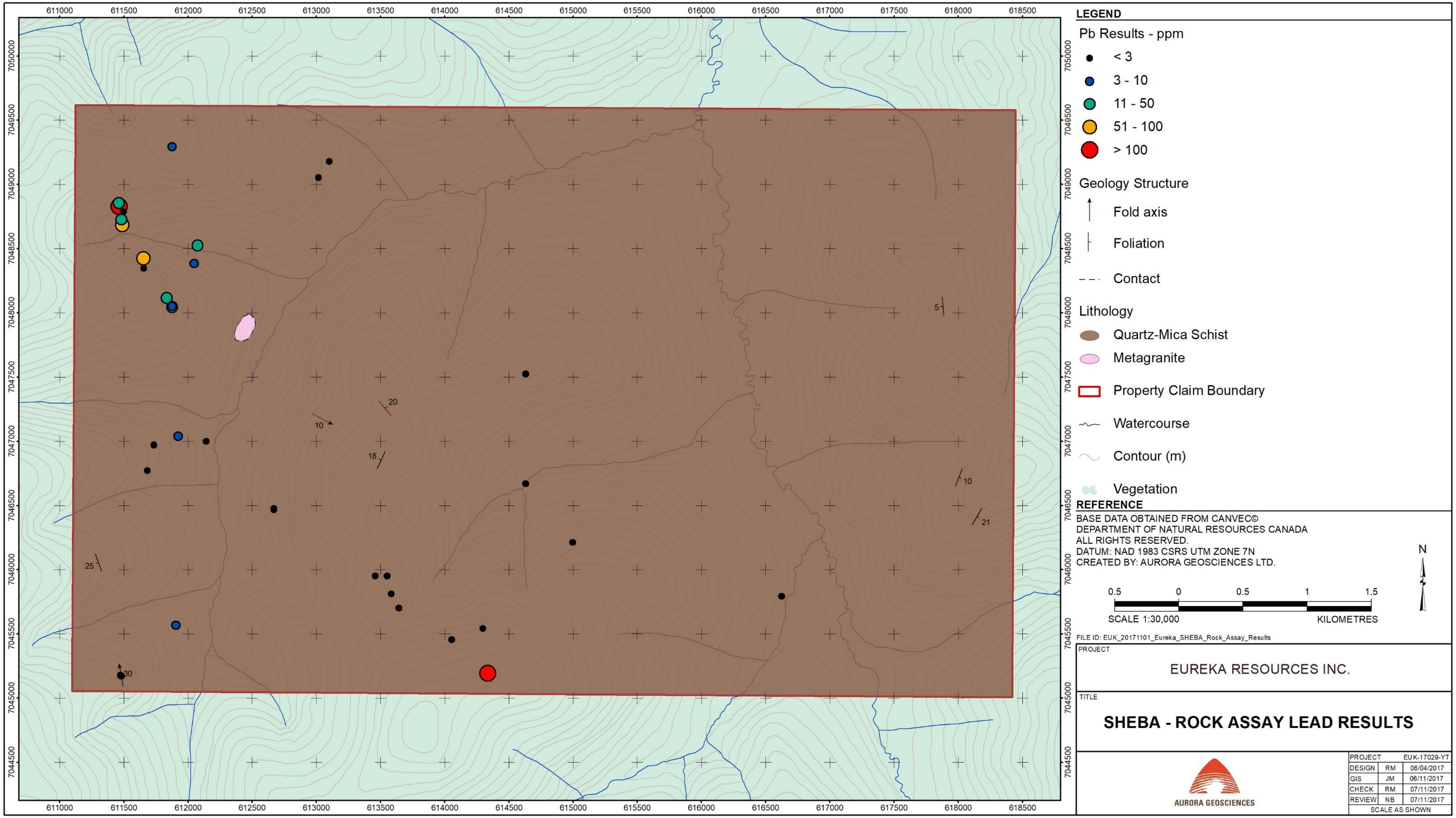

Figure 17: Pb values for rock samples collected during the 2017 prospecting program on the Sheba property.

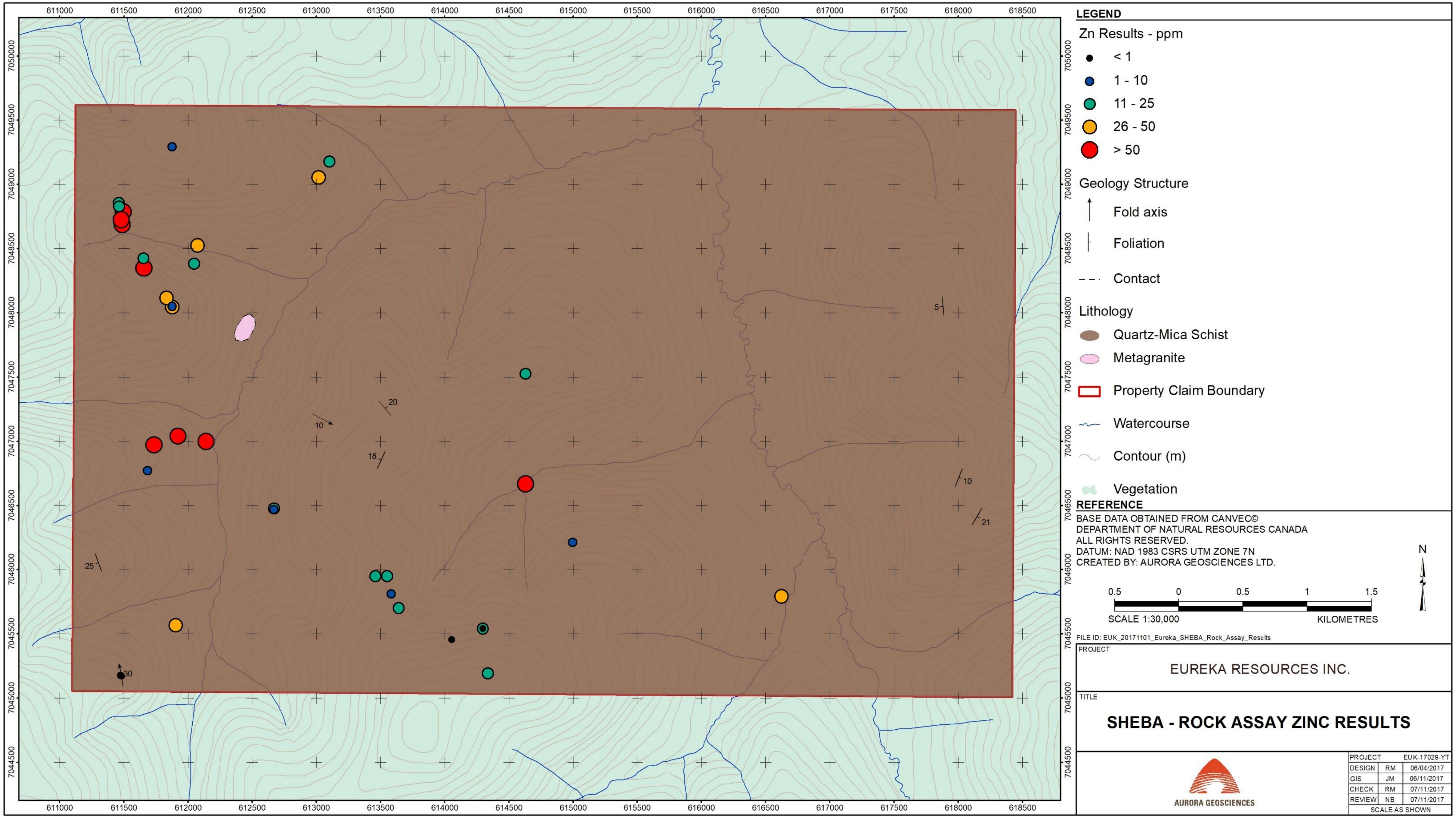

Figure 18: Zn values for rock samples collected during the 2017 prospecting program on the Sheba property.

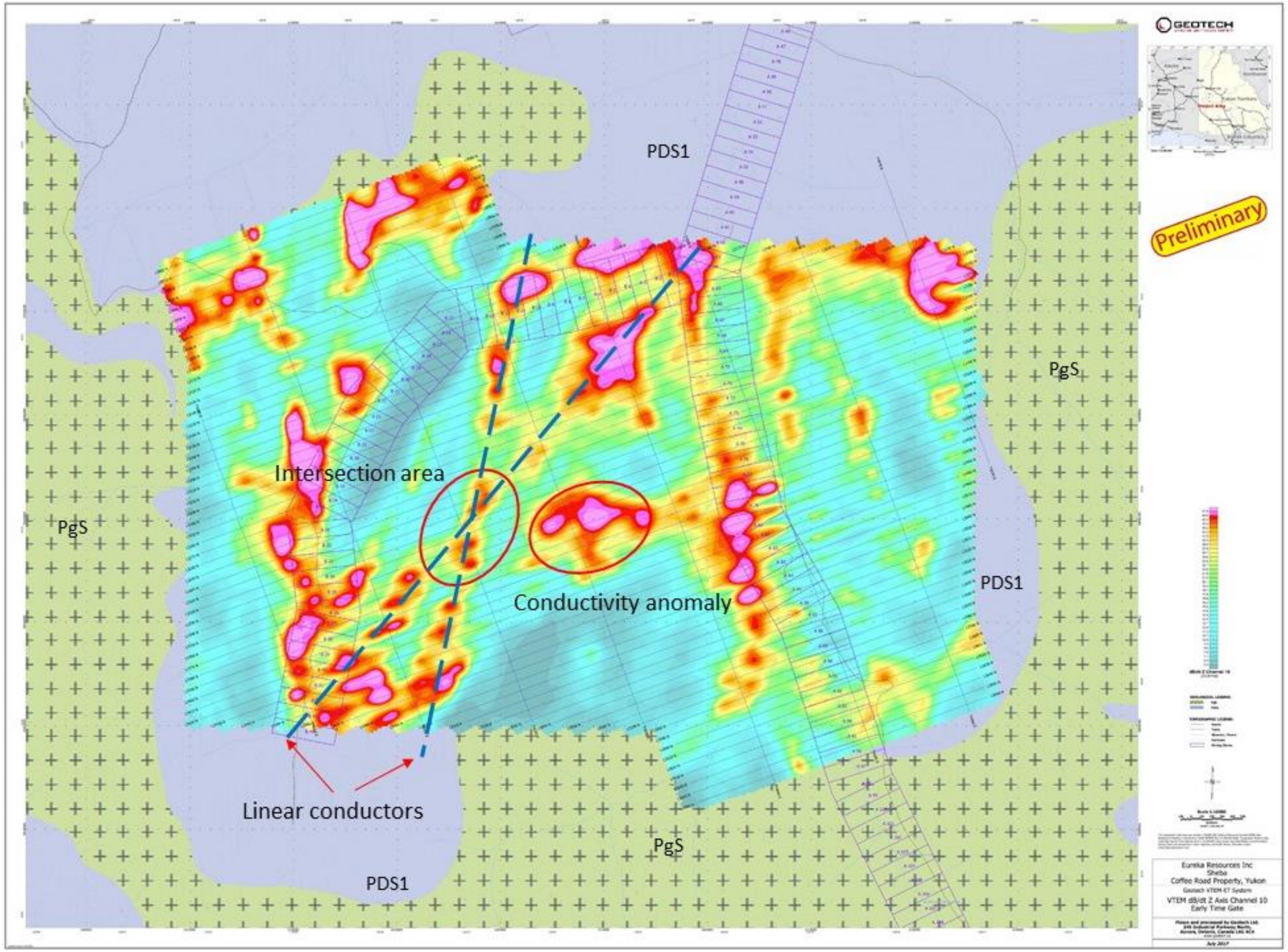

Figure 19: Early-Time Gate EM plot, Sheba property. Linear conductors and spot conductivity anomaly have been highlighted.

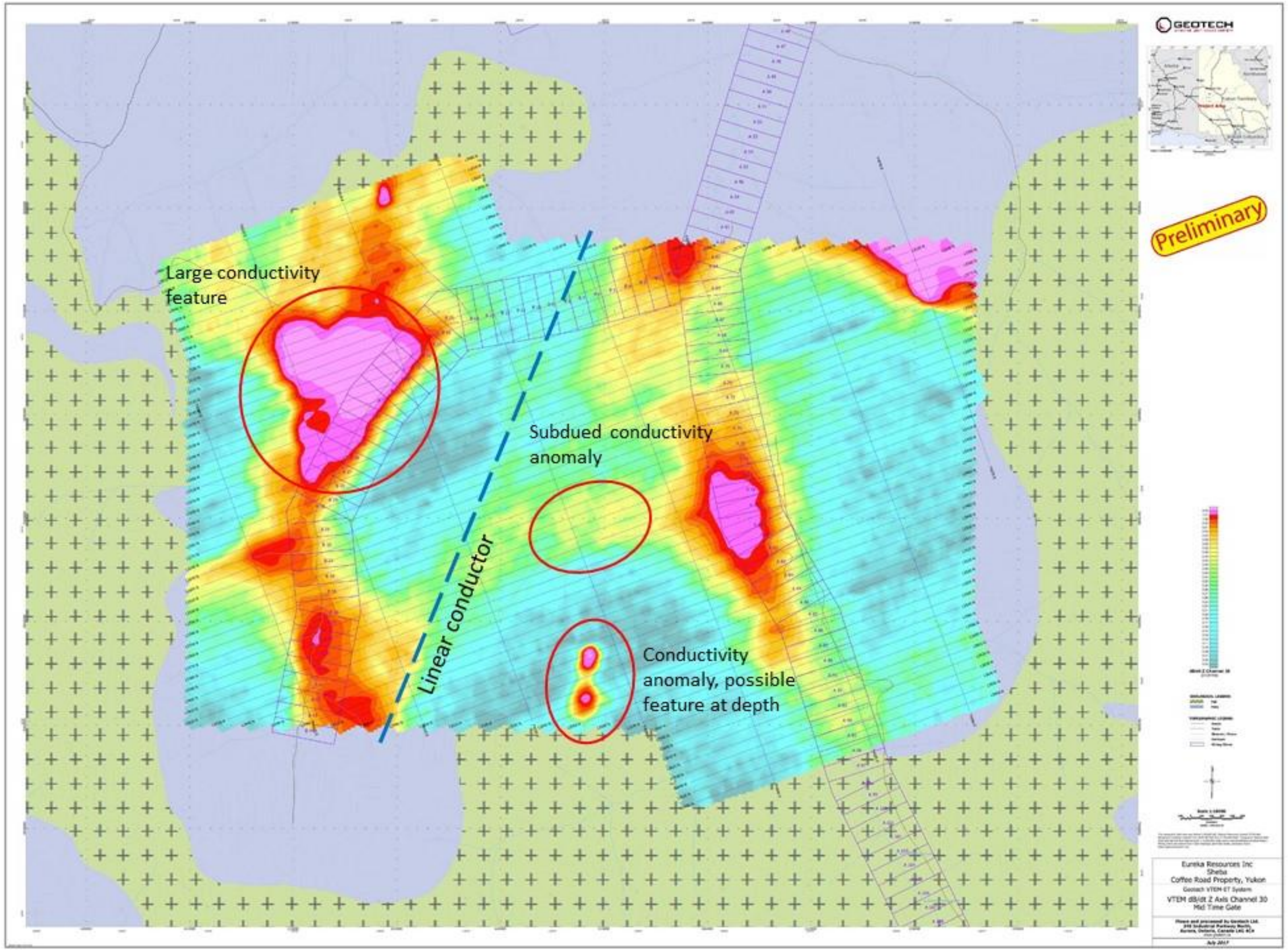

Figure 20: Mid-Time Gate EM plot, Sheba property. Note the large conductivity anomaly in the NW corner of the property.

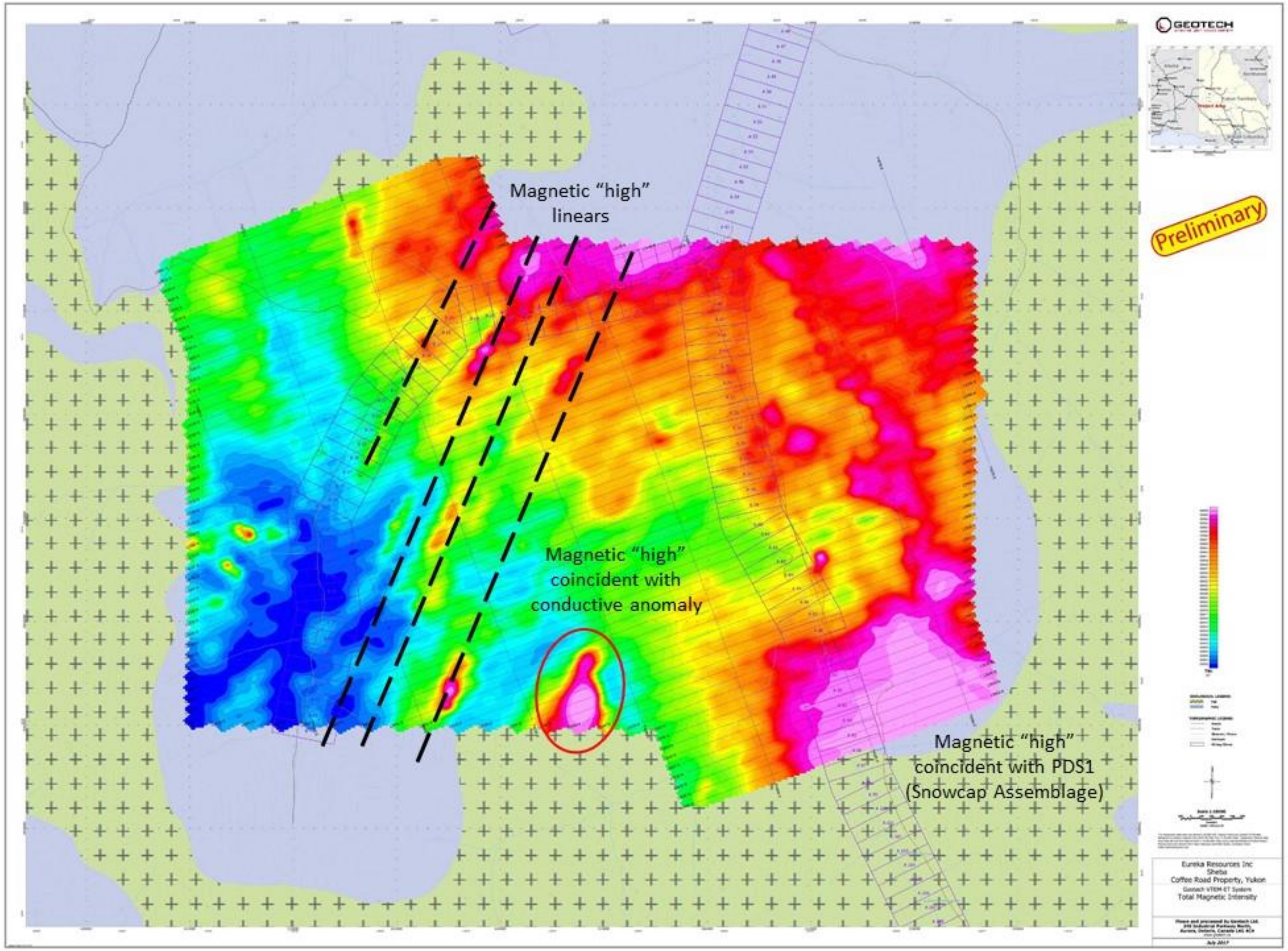

Figure 21: Total Magnetic Intensity (TMI) plot, Sheba property. Note coincident magnetic "high" in vicinity of conductivity anomaly in Fig. 20.

10 CONCLUSIONS

Work completed by Aurora Geosciences Ltd. in 2017 indicates that potential for sizable mineralized zones is limited across much of the Sheba property. Areas of anomalous gold, silver and/or pathfinder element values identified through soil and stream sediment geochemistry are small and do not show continuity beyond isolated single samples. Most of the geophysical anomalies identified in the airborne survey do not appear to be particularly correlative with geochemical anomalies, suggesting that the structures responsible for these anomalies are not correlative with mineralization. Rock samples collected during prospecting work did not return significant results.

However, one sample (1909129) returned significantly anomalous Au, Ag and Pb values, though still sub-economic. Several samples returned strongly anomalous Sb values, and elevated Au and Ag values were returned from other samples in this area. Outcrop and subcrop exposure in the area is poor and no previous work has been recorded prior to 2017. The area south of sample 1909129 is anomalous in arsenic in both soils and stream silts. This area is also correlative with a conductivity high identified in the AAIP survey that is not easily explained by overburden or permafrost. The relationship between soil, silt and rock geochemistry combined with airborne geophysical results warrants further investigation.

11 RECOMMENDATIONS

11.1 Recommended follow-up program

Based on the results of the 2017 field program a small follow-up program in the vicinity of the anomalous rock samples in the northwest corner of the property is recommended. This area was not covered by the soil survey in 2017 and little work has been done in the vicinity of this sample during historic exploration programs. However, stream silt and soil geochemical surveys from the 2017 program indicate an area of elevated arsenic here, likely related to the elevated metal values from rock sampling.

Recommended work would consist of a soil geochemical grid to determine the extent of the anomaly, coupled with additional prospecting. A grid measuring approximately 1,000 m x 1,000 m at a 50 m line and station spacing (approximately 450 samples) covering the area surrounding the anomalous rock samples should provide adequate coverage to test the extent of significant rock and soil geochemical anomalies. Additional prospecting and geological mapping would be conducted at the same time as the soil sampling.

This program could be done by a three-person crew consisting of a geologist/ crew boss and two field technicians for soil sampling. The program would be based from a field camp and require eight days in the field and two days for helicopter-supported mobilization and de-mobilization based from Dawson. Proposed expenditures, including 5% contingency, stand at CDN$56,000. Results of this program would be utilized to determine subsequent more advanced exploration programs.

11.2 Sample budget for recommended follow-up program

Personnel, crew boss: 10 person-days @ $600/day:	$ 6,000
Personnel, field technicians: 20 person-days @ $450/day:	$ 9,000
Soil samples: 450 samples @ $33/sample:	$14,850
Rock sampling: 25 samples @ $39/sample:	$ 975
Camp rental (all-in): 8 days @ $130/day:	$ 1,040
Expeditor support (all-in): 4 days @ $1,100/day:	$ 4,400
Helicopter support (Bell 206B or equivalent): 6 hours @ $1,200/hr., incl. fuel:	$ 7,200
Hotel lodging: 4 double rooms @ $135/night:	$ 540
Daily field expenses (including travel): 34 person-days @ $100/day:	$ 3,400
Job prep, camp and equipment:	$ 975
Job prep, Digital data, maps, etc.: 18 hours @ $85/hr:	$ 1,530
Assessment report: 35 hours @ 100/hr:	$ 3,500
Sub-total:	**$ 53,410**
5% contingency:	$ 2,671
Proposed Total:	**$ 56,081**

Respectfully submitted,
AURORA GEOSCIENCES LTD.

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Nigel Bocking, G.I.T.
Project Geologist

Reviewed by:
Carl Schulze, P.Geo.
Project Manager

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Fekete, M. and Huber, M, 2011: 2011 Surface Work on the Wounded Moose Property, Dawson Mining District, Yukon. Assessment report #095983, filed with the Dawson Mining Recorder, Ministry of Energy, Mines and Resources, Government of Yukon

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Yukon Geology Survey, Energy Mines and Resources, 2017: Website at http://www.geology.gov.yk.ca/

Yukon Mining Recorder, Energy, Mines and Resources, 2017: Website at http://www.yukonminingrecorder.ca/

Appendix I: Statement of Qualifications

STATEMENT OF QUALIFICATIONS

I, Nigel Bocking, of Yellowknife, Northwest Territories do herby certify that:

1. I am a graduate of Queen's University at Kingston, Ontario with a B.Sc. (Honours) in Geological Sciences obtained in 2016 and a Bachelor of Commerce (Honours) obtained in 2015.

2. I am a member-in-training of the Northwest Territories and Nunavut Association of Professional Engineers and Geoscientists (#T366).

3. I led the 2017 field program on the Sheba property.

4. I have no interest, directly or indirectly, nor do I hope to receive any interest, directly or indirectly, in Eureka Resources Inc., its securities, or any of its properties.

Dated this December 18, 2017 in Yellowknife, NT.

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Nigel Bocking, B.Sc., B.Comm., G.I.T.

Appendix II: 2017 Soil Geochemical Data

2017 Soil Geochemical Data

SampleID	DateCreate	Latitude	Longitude	Northing_f	Easting_N	Description	SampleDep	HorizonSar	DepthWith	SampleCol	Organics_g	Gravel_pct	Sand_pct	Silt_pct	Clay_pct	AngularRo	ParentMat	MoistureC	Vegetation	TopoPositi	SamplerNa	SampleTyp	JobCode	PropertyN	UTMZone	QAQC
1892051	09/11/17	63.52181	-138.658	7045862	616500.9		40-50	C	15-20	Yellowish (	0	0	40	25	0	35	Weatherec	Dry	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	
1892052	09/11/17	63.5217	-138.658	7045849	616502.1	1892051	40-50	C	15-20	Yellowish (	0	0	40	25	0	35	Weatherec	Dry	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	FieldDuplic
1892053	09/11/17	63.52229	-138.658	7045915	616489.9		40-50	C	20-25	Yellowish (	0	0	45	25	0	30	Weatherec	Dry	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	
1892054	09/11/17	63.52278	-138.658	7045969	616488.2		30-40	C	10-15	Light Brow	0	0	40	40	5	15	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	
1892055	09/11/17	63.52316	-138.658	7046011	616472.9		70-80	C	30up	Light Brow	0	0	40	40	10	10	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	
1892056	09/11/17	63.52362	-138.658	7046062	616460.2		50-60	C	20-25	Light Brow	0	0	40	40	5	10	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	
1892057	09/11/17	63.52402	-138.658	7046106	616439.1		70-80	C	20-25	Light Brow	0	0	45	40	5	10	Weatherec	Frozen	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	
1892058	09/11/17	63.52442	-138.659	7046150	616422.6		50-60	C	20-25	Light Brow	0	0	60	35	0	5	Weatherec	Wet	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	
1892059	09/11/17	63.52493	-138.659	7046206	616399.3		50-60	C	20-25	Light Brow	0	0	40	45	5	10	Weatherec	Saturated	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	
1892060	09/11/17	63.5253	-138.66	7046246	616375.6		50-60	C	15-20	Light Brow	0	0	40	40	15	5	Weatherec	Saturated	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	
1892061	09/11/17	63.5256	-138.66	7046279	616352.7		40-50	C	10-15	Yellowish (	0	0	50	40	0	10	Weatherec	Wet	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	
1892062	09/11/17	63.52608	-138.661	7046332	616336.2		40-50	C	15-20	Light Brow	0	0	45	35	10	10	Weatherec	Saturated	Marsh	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	
1892063	09/11/17	63.52643	-138.661	7046370	616307		30-40	C	10-15	Light Brow	0	0	45	40	0	15	Weatherec	Saturated	Marsh	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	
1892064	09/11/17	63.52725	-138.662	7046460	616265.9		50-60	C	20-25	Light Brow	0	0	45	40	5	10	Weatherec	Saturated	Marsh	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	
1892065	09/11/17	63.52761	-138.663	7046498	616230.4		40-50	C	15-20	Light Brow	0	0	45	35	0	15	Weatherec	Saturated	Marsh	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	
1892066	09/11/17	63.52787	-138.663	7046527	616197.8		40-50	B/C	15-20	Light Brow	5	0	35	40	10	15	Weatherec	Saturated	Marsh	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	
1892067	09/11/17	63.52856	-138.665	7046601	616120.7		40-50	C	10-15	Light Brow	0	5	45	40	5	5	Weatherec	Saturated	Marsh	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	
1892068	09/11/17	63.52889	-138.665	7046636	616088		40-50	C	10-15	Light Brow	0	5	45	40	5	10	Weatherec	Saturated	Marsh	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	
1892069	09/11/17	63.52941	-138.667	7046691	616009		40-50	C	15-20	Light Brow	0	0	45	40	0	15	Weatherec	Wet	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	
1892070	09/11/17	63.52964	-138.668	7046716	615964.1		40-50	C	10-15	Light Brow	0	0	40	40	0	20	Weatherec	Wet	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	
1892071	09/11/17	63.52986	-138.669	7046738	615915.4		60-70	C	20-25	Light Brow	5	5	35	35	0	20	Weatherec	Wet	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	
1892072	09/11/17	63.53014	-138.67	7046768	615870.5		40-50	C	10-15	Light Brow	0	0	40	35	0	25	Weatherec	Saturated	Marsh	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	
1892073	09/11/17	63.5269	-138.662	7046421	616283.7		40-50	C	10-15	Light Brow	0	0	40	45	10	5	Weatherec	Saturated	Marsh	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	
1892074	09/11/17	63.53026	-138.67	7046780	615831.6		30-40	C	10-15	Light Brow	0	0	60	30	0	10	Weatherec	Wet	Marsh	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	
1892075	09/11/17	63.53034	-138.671	7046788	615826.1	1892074	30-40	C	10-15	Light Brow	0	0	60	30	0	10	Weatherec	Wet	Marsh	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	FieldDuplic
1892076	09/11/17	63.53038	-138.672	7046791	615777.4		50-60	C	15-20	Light Brow	0	0	45	30	0	20	Weatherec	Saturated	Marsh	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	
1892138	09/11/17	63.52534	-138.696	7046186	614592.4	permafrost	40-50	B	2-5	Dark Grey	15	0	15	45	25	0	Weatherec	Partially Fr	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892139	09/11/17	63.52549	-138.695	7046205	614640.2	permafrost	40-50	B/C	5-10	Dark Grey	10	0	20	50	10	10	Weatherec	Saturated	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892140	09/11/17	63.52587	-138.694	7046247	614659.8		40-50	B/C	20-25	Light Grey	5	0	40	30	15	10	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892141	09/11/17	63.52623	-138.694	7046289	614690.3		60-70	C	30up	Dark Grey	0	0	20	50	15	15	Weatherec	Moist	Deciduous	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892142	09/11/17	63.52664	-138.693	7046336	614722	permafrost	40-50	C	30up	Light Grey	5	0	15	40	40	0	Weatherec	Saturated	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892143	09/11/17	63.52696	-138.693	7046372	614742.7		50-60	C	20-25	Dark Grey	0	0	50	25	15	10	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892144	09/11/17	63.52738	-138.692	7046420	614766.5	permafrost	40-50	B/C	15-20	Dark Grey	10	0	25	40	15	10	Weatherec	Saturated	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892145	09/11/17	63.52768	-138.691	7046455	614805.4	permafrost	30-40	C	10-15	Dark Grey	10	0	10	40	40	0	Weatherec	Wet	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892146	09/11/17	63.52786	-138.691	7046477	614839.3	permafrost	50-60	B	20-25	Dark Grey	10	0	15	50	25	0	Weatherec	Wet	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892147	09/11/17	63.52806	-138.69	7046500	614885		30-40	B/C	15-20	Light Grey	5	0	35	40	15	5	Weatherec	Wet	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892148	09/11/17	63.5283	-138.689	7046529	614936.6	permafrost	40-50	C	15-20	Dark Grey	10	0	10	50	30	0	Weatherec	Wet	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892149	09/11/17	63.52842	-138.688	7046544	614980.7		50-60	C	20-25	Light Grey	0	0	40	30	20	10	Weatherec	Saturated	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892150	09/11/17	63.52856	-138.687	7046561	615024.3		50-60	C	30up	Light Grey	0	0	40	30	15	15	Weatherec	Saturated	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892151	09/11/17	63.52856	-138.687	7046561	615024.3	1892150	50-60	C	30up	Light Grey	0	0	40	30	15	15	Weatherec	Saturated	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	FieldDuplic
1892152	09/11/17	63.52872	-138.686	7046581	615071.7		30-40	B/C	15-20	Dark Grey	10	0	30	30	25	5	Weatherec	Saturated	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892153	09/11/17	63.52883	-138.685	7046595	615118.3		30-40	B/C	15-20	Dark Grey	5	5	30	30	20	10	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892154	09/11/17	63.52891	-138.684	7046605	615169.9		40-50	B/C	10-15	Dark Grey	0	5	30	25	25	10	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892155	09/11/17	63.52897	-138.683	7046613	615220.7		30-40	B/C	5-10	Dark Grey	10	5	35	30	10	10	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892156	09/11/17	63.52907	-138.682	7046626	615265.1		60-70	B/C	20-25	Dark Grey	5	0	25	30	25	15	Weatherec	Wet	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892157	09/11/17	63.52916	-138.681	7046638	615312.6		40-50	B	15-20	Dark Grey	10	0	25	40	20	5	Weatherec	Wet	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892158	09/11/17	63.52922	-138.68	7046646	615362.5	permafrost	40-50	B	15-20	Dark Grey	5	0	15	50	30	0	Weatherec	Wet	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892159	09/11/17	63.52938	-138.679	7046666	615409.1	permafrost	60-70	B	30up	Dark Grey	10	0	30	30	20	10	Weatherec	Wet	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892160	09/11/17	63.52948	-138.678	7046679	615453.1	permafrost	60-70	B/C	10-15	Dark Grey	5	0	30	40	15	10	Weatherec	Wet	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892161	09/11/17	63.52952	-138.677	7046686	615504.3	permafrost	60-70	B/C	10-15	Dark Grey	5	5	30	35	10	15	Weatherec	Saturated	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892162	09/11/17	63.52965	-138.676	7046701	615556		30-40	C	15-20	Light Brow	0	0	50	25	10	15	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892163	09/11/17	63.5298	-138.675	7046720	615598		40-50	C	20-25	Light Brow	0	0	50	25	15	10	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892164	09/11/17	63.53002	-138.674	7046747	615645.3		40-50	C	30up	Light Brow	0	0	50	20	10	20	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892165	09/11/17	63.53011	-138.673	7046758	615692.7		30-40	C	25-30	Light Brow	0	0	50	20	10	20	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892251	09/11/17	63.51715	-138.651	7045356	616867.5		30-40	C	10-15	Light Brow	0	10	30	15	20	25	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	
1892252	09/11/17	63.51686	-138.65	7045326	616913.6		20-30	C	5-10	Light Brow	0	5	40	15	15	25	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	
1892253	09/11/17	63.51648	-138.649	7045283	616940.7		20-30	C	5-10	Light Brow	0	15	40	15	15	15	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	
1892254	09/11/17	63.51621	-138.649	7045254	616979.2		20-30	C	5-10	Light Brow	0	15	15	30	25	15	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	
1892255	09/11/17	63.5158	-138.648	7045210	617013.1		20-30	C	5-10	Light Brow	0	15	25	30	25	5	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	
1892256	09/11/17	63.51549	-138.647	7045177	617041.5		20-30	C	5-10	Light Brow	0	10	35	15	20	20	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	
1892257	09/11/17	63.51512	-138.647	7045136	617075.3		20-30	C	10-15	Light Brow	0	10	30	15	20	25	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	
1892258	09/11/17	63.51481	-138.646	7045103	617106.7		20-30	C	5-10	Light Brow	0	15	30	10	20	25	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	
1892432	09/11/17	63.52137	-138.658	7045813	616497.5		20-30	C	5-10	Light Brow	0	10	35	30	15	10	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	
1892433	09/11/17	63.52092	-138.658	7045762	616488.6		20-30	C	5-10	Light Brow	0	15	30	15	15	25	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	
1892434	09/11/17	63.52044	-138.658	7045709	616489.4		20-30	C	5-10	Light Brow	0	20	25	15	15	25	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	
1892435	09/11/17	63.52003	-138.658	7045663	616486.6		20-30	B/C	5-10	Light Brow	0	30	15	20	5	30	Weatherec	Saturated	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	
1892436	09/11/17	63.51965	-138.658	7045621	616491.1		20-30	C	5-10	Light Brow	0	20	20	15	15	30	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	
1892437	09/11/17	63.51907	-138.658	7045556	616486.9		20-30	C	5-10	Light Brow	0	20	25	15	20	20	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	
1892438	09/11/17	63.5187	-138.658	7045514	616484.4		40-50	B/C	10-15	Dark Grey	0	10	10	50	30	0	Weatherec	Saturated	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	
1892439	09/11/17	63.51832	-138.658	7045472	616489		20-30	C	5-10	Light Brow	0	10	15	30	20	25	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	
1892440	09/11/17	63.51781	-138.658	7045416	616492.4		20-30	B/C	10-15	Light Brow	0	10	10	30	30	20	Weatherec	Wet	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	
1892441	09/11/17	63.51782	-138.658	7045417	616492.8	1892441	20-30	B/C	10-15	Light Brow	0	10	10	30	30	20	Weatherec	Wet	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	FieldDuplic
1892442	09/11/17	63.51731	-138.658	7045360	616489		20-30	C	5-10	Light Brow	0	15	10	30	30	15	Weatherec	Wet	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	
1892443	09/11/17	63.51693	-138.658	7045317	616488.2		20-30	C	5-10	Light Brow	0	10	15	30	30	15	Weatherec	Saturated	Evergreen	Valley Bott	Tyler Legg	Soil	EUK-17029	SHEBA	7N	
1892444	09/11/17	63.51694	-138.657	7045320	616543.2		30-40	B/C	10-15	Light Brow	0	0	5	45	50	0	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	
1892445	09/11/17	63.51703	-138.657	7045331	616577.5		30-40	B/C	15-20	Light Grey	10	0	10	30	45	15	Weatherec	Frozen	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	
1892446	09/11/17	63.51716	-138.656	7045348	616625.8		20-30	C	5-10	Light Brow	0	10	25	15	25	25	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	
1892447	09/11/17	63.51728	-138.655	7045363	616671.1		20-30	B/C	10-15	Light Brow	0	10	30	30	10	20	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	
1892448	09/11/17	63.51728	-138.653	7045365	616734.6		10-20	C	5-10	Light Brow	0	5	35	30	25	5	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	
1892449	09/11/17	63.51737	-138.653	7045377	616776.5		20-30	C	5-10	Light Brow	0	10	30	35	10	15	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	
1892450	09/11/17	63.51746	-138.652	7045389	616824.7		20-30	C	5-10	Light Brow	0	20	30	15	20	15	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	
1892077	09/12/17	63.52137	-138.708	7045721	613987.9		40-50	B/C	10-15	Dark Brow	5	0	30	35	15	15	Weatherec	Partially Fr	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892078	09/12/17	63.5215	-138.706	7045739	614088.3		20-30	B/C	2-5	Dark Brow	5	0	30	40	15	10	Weatherec	Partially Fr	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892079	09/12/17	63.52193	-138.705	7045791	614170.4		20-30	C	2-5	Dark Brow	5	0	30	40	20	10	Weatherec	Partially Fr	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892080	09/12/17	63.52252	-138.703	7045859	614240.2		40-50	C	20-25	Light Brow	0	0	30	45	15	10	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892081	09/12/17	63.52325	-138.702	7045943	614302.9		40-50	C	15-20	Light Brow	0	0	40	35	5	20	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892082	09/12/17	63.52394	-138.701	7046022	614357.1		30-40	C	10-15	Light Brow	0	0	45	35	5	15	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892083	09/12/17	63.52458	-138.699	7046095	614424.4		30-40	C	15-20	Light Brow	0	0	35	30	0	35	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892084	09/12/17	63.52514	-138.698	7046160	614497.8		20-30	B	10-15	Light Brow	0	5	35	40	10	10	Weatherec	Partially Fr	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892259	09/12/17	63.52141	-138.707	7045728	614039.2		40-50	C	15-20	Light Grey	0	5	5	40	40	10	Weatherec	Partially Fr	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892260	09/12/17	63.52169	-138.705	7045763	614139.7		30-40	B/C	5-10	Dark Brow	10	0	5	40	40	5	Weatherec	Partially Fr	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892261	09/12/17	63.52167	-138.705	7045760	614141.6	1892260	30-40	B/C	5-10	Dark Brow	10	0	5	40	40	5	Weatherec	Partially Fr	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	FieldDuplic
1892262	09/12/17	63.52215	-138.704	7045817	614203.8		20-30	B/C	5-10	Dark Brow	5	0	10	35	40	10	Weatherec	Partially Fr	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892263	09/12/17	63.52281	-138.702	7045893	614275.5		20-30	C	5-10	Light Brow	0	10	30	30	25	5	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892264	09/12/17	63.52362	-138.701	7045985	614333.9		20-30	C	5-10	Light Brow	0	10	30	20	20	20	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892265	09/12/17	63.52422	-138.7	7046054	614388.1		20-30	C	5-10	Light Brow	0	10	30	30	20	10	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892266	09/12/17	63.52483	-138.699	7046124	614457.2		30-40	C	10-15	Light Brow	0	5	30	25	25	15	Weatherec	Partially Fr	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1892267	09/12/17	63.52524	-138.697	7046173	614541.5		30-40	B/C	10-15	Dark Brow	5	10	40	40	5	0	Weatherec	Partially Fr	Evergreen	Mid Slope	Nigel Bock	Soil	EUK-17029	SHEBA	7N	
1891799	09/09/17	63.52564	-138.627	7046344	618008.8		20-30	C	5-10	Light Brow	0	10	35	35	10	10	Weatherec	Moist	Deciduous	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891800	09/09/17	63.52524	-138.628	7046298	617976.5		20-30	C	10-15	Light Brow	0	10	35	30	10	15	Weatherec	Moist	Deciduous	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891933	09/09/17	63.52601	-138.627	7046387	618032.9		20-30	C	10-15	Light Brow	0	5	55	20	5	15	Weatherec	Moist	Deciduous	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891934	09/09/17	63.52628	-138.626	7046418	618064.3		30-40	C	15-20	Light Brow	0	10	35	30	10	15	Weatherec	Moist	Deciduous	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891935	09/09/17	63.52656	-138.625	7046451	618108.3		10-20	B/C	10-15	Light Brow	0	10	45	20	10	15	Weatherec	Moist	Deciduous	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891936	09/09/17	63.52683	-138.624	7046483	618150.6		30-40	B/C	25-30	Light Brow	0	5	40	30	10	15	Weatherec	Moist	Deciduous	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891937	09/09/17	63.52705	-138.623	7046508	618190.4		20-30	B/C	15-20	Light Brow	0	10	40	20	15	15	Weatherec	Moist	Deciduous	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891938	09/09/17	63.52727	-138.622	7046535	618236.6		20-30	C	10-15	Light Brow	0	10	45	20	10	15	Weatherec	Moist	Deciduous	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891939	09/09/17	63.52755	-138.622	7046567	618272.1		20-30	B/C	20-25	Light Brow	0	5	40	30	15	10	Weatherec	Moist	Deciduous	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891940	09/09/17	63.5278	-138.621	7046596	618308.1		20-30	C	25-30	Light Brow	0	5	30	45	10	10	Weatherec	Moist	Deciduous	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891941	09/09/17	63.5278	-138.621	7046596	618308.1	1891940	20-30	C	25-30	Light Brow	0	5	30	45	10	10	Weatherec	Moist	Deciduous	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	FieldDuplic
1891942	09/09/17	63.52802	-138.62	7046622	618351.4		30-40	C	20-25	Light Brow	0	10	30	35	10	15	Weatherec	Moist	Deciduous	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891943	09/09/17	63.52826	-138.619	7046651	618396.2		30-40	C	20-25	Light Brow	0	10	25	35	10	20	Weatherec	Moist	Deciduous	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891944	09/09/17	63.52849	-138.619	7046678	618436.1		20-30	C	5-10	Light Brow	0	5	30	40	10	15	Weatherec	Moist	Deciduous	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891945	09/09/17	63.52908	-138.619	7046745	618493.3		20-30	C	15-20	Light Brow	0	10	25	40	15	10	Weatherec	Moist	Buck Brush	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891946	09/09/17	63.52987	-138.619	7046831	618388.5		20-30	C	10-15	Light Brow	0	10	30	30	10	20	Weatherec	Moist	Buck Brush	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891947	09/09/17	63.53029	-138.619	7046877	618375		50-60	C	30up	Light Brow	0	10	30	30	20	10	Weatherec	Moist	Deciduous	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891948	09/09/17	63.53074	-138.62	7046926	618362.7		30-40	C	20-25	Light Brow	0	5	30	30	20	15	Weatherec	Moist	Deciduous	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891949	09/09/17	63.53122	-138.62	7046979	618342.9		40-50	C	30up	Light Brow	0	5	35	30	15	15	Weatherec	Moist	Deciduous	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891950	09/09/17	63.53204	-138.62	7047070	618314		40-50	C	30up	Light Brow	0	10	25	35	15	15	Weatherec	Moist	Deciduous	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891964	09/09/17	63.5397	-138.631	7047904	617772.3		20-30	C	15-20	Light Brow	5	10	10	60	15	5	Weatherec	Moist	Evergreen	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891965	09/09/17	63.53966	-138.632	7047897	617713.3		30-40	C	25-30	Light Brow	5	5	10	60	10	15	Weatherec	Moist	Evergreen	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891966	09/09/17	63.53968	-138.633	7047903	617813.2		20-30	C	10-15	Light Brow	0	10	20	50	10	10	Weatherec	Moist	Evergreen	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891967	09/09/17	63.54303	-138.63	7048275	617777.8		10-20	C	5-10	Light Brow	0	10	25	35	10	20	Weatherec	Moist	Deciduous	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891968	09/09/17	63.54267	-138.63	7048236	617812		20-30	C	10-15	Light Brow	0	5	10	40	20	25	Weatherec	Moist	Deciduous	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891969	09/09/17	63.54231	-138.629	7048197	617833.5		30-40	C	20-25	Light Brow	0	10	25	40	10	15	Weatherec	Moist	Deciduous	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891970	09/09/17	63.54187	-138.629	7048149	617852.2		10-20	C	10-15	Light Brow	0	10	25	40	10	15	Weatherec	Moist	Evergreen	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891971	09/09/17	63.54142	-138.629	7048103	617853.4		10-20	C	5-10	Light Brow	0	10	20	45	5	20	Weatherec	Moist	Evergreen	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891972	09/09/17	63.54095	-138.629	7048047	617864.8		10-20	C	10-15	Light Brow	0	10	20	50	5	15	Weatherec	Moist	Evergreen	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891973	09/09/17	63.54048	-138.629	7047994	617873.3		5-10	C	5-10	Light Brow	0	5	5	65	20	5	Weatherec	Moist	Evergreen	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891974	09/09/17	63.54006	-138.629	7047948	617876.7		10-20	C	5-10	Light Brow	0	5	5	70	15	5	Weatherec	Moist	Evergreen	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891975	09/09/17	63.53957	-138.628	7047893	617885.6		10-20	C	5-10	Light Brow	0	5	10	65	10	10	Weatherec	Moist	Evergreen	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891976	09/09/17	63.53912	-138.628	7047841	617897.5		10-20	C	5-10	Light Brow	0	10	10	50	10	20	Weatherec	Moist	Evergreen	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891977	09/09/17	63.53865	-138.628	7047794	617898.3		10-20	C	10-15	Light Brow	10	10	5	60	10	15	Weatherec	Moist	Evergreen	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891978	09/09/17	63.53818	-138.628	7047752	617911		10-20	C	5-10	Light Brow	0	10	5	50	10	25	Weatherec	Moist	Evergreen	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891979	09/09/17	63.53783	-138.628	7047701	617911.9		10-20	C	10-15	Light Brow	0	15	5	50	10	20	Weatherec	Moist	Evergreen	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891980	09/09/17	63.53741	-138.628	7047654	617913.1		10-20	C	10-15	Light Brow	0	10	5	50	15	20	Weatherec	Moist	Evergreen	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891981	09/09/17	63.53741	-138.628	7047654	617913.1	1891980	10-20	C	10-15	Light Brow	0	10	5	50	15	20	Weatherec	Moist	Evergreen	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	FieldDuplic
1891982	09/09/17	63.53697	-138.628	7047605	617923.2		10-20	C	5-10	Light Brow	0	5	5	70	10	10	Weatherec	Moist	Evergreen	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891983	09/09/17	63.53649	-138.628	7047552	617929.2		10-20	C	10-15	Light Brow	0	10	5	65	10	10	Weatherec	Moist	Evergreen	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891984	09/09/17	63.53615	-138.628	7047513	617928		20-30	C	15-20	Light Brow	0	15	5	60	10	10	Weatherec	Moist	Evergreen	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891985	09/09/17	63.53562	-138.628	7047455	617930.1		10-20	C	10-15	Light Brow	0	10	10	50	10	20	Weatherec	Moist	Evergreen	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891986	09/09/17	63.53516	-138.628	7047415	617953.4		10-20	C	15-20	Light Brow	5	10	5	70	10	5	Weatherec	Moist	Evergreen	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1891987	09/09/17	63.53447	-138.627	7047382	617990.6		10-20	C	10-15	Light Brow	0	5	10	55	15	15	Weatherec	Moist	Evergreen	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1892001	09/09/17	63.53398	-138.637	7047903	617458		20-30	C	10-15	Light Brow	0	10	30	35	15	10	Weatherec	Moist	Evergreen	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1892002	09/09/17	63.5397	-138.636	7047901	617411.5		20-30	C	10-15	Light Brow	0	5	30	40	15	10	Weatherec	Moist	Evergreen	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	
1892003	09/09/17	63.53975	-138.639	7047894	617359		40-50	C	10-15	Light Brow	0	5	40	35	0	20	Weatherec	Moist	Evergreen	Ridge Top	Heiko Mue	Soil	EUK-17029	SHEBA	7N	

DateNoTime		Au PPB	Pt PPB	Pd PPB	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	S %	Hg PPM	Tl PPM	Ga PPM	Sc PPM
11/17/09	1892051	<2	<3	5	<1	3	4	31	<0.3	2	2	198	1.89	3	15	12	<0.5	<3	<3	13	0.04	0.019	32	4	0.39	202	0.046	<20	0.85	<0.01	0.19	<2	<0.05	<1	<5	<5	<5
11/17/09	1892052	2	4	<2	<1	4	6	38	<0.3	4	3	233	2.26	4	14	13	<0.5	<3	<3	14	0.05	0.021	30	7	0.46	239	0.053	<20	1.05	<0.01	0.23	<2	<0.05	<1	<5	<5	<5
11/17/09	1892053	<2	<3	3	<1	6	4	33	<0.3	5	3	107	1.61	2	20	14	<0.5	<3	<3	8	0.05	0.012	39	7	0.4	223	0.024	<20	1.18	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
11/17/09	1892054	4	<3	2	<1	13	8	38	<0.3	12	5	171	2.13	8	18	13	<0.5	<3	<3	30	0.08	0.013	29	18	0.32	243	0.031	<20	1.15	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
11/17/09	1892055	7	3	<2	<1	23	20	78	<0.3	18	8	461	3.52	2	9	23	<0.5	<3	<3	53	0.27	0.017	37	63	1.54	1020	0.182	<20	2.55	<0.01	1.25	<2	<0.05	<1	<5	<5	7
11/17/09	1892056	3	<3	<2	<1	13	9	52	<0.3	12	6	235	2.37	5	9	14	<0.5	<3	<3	36	0.15	0.028	26	22	0.6	316	0.104	<20	1.5	<0.01	0.29	<2	<0.05	<1	<5	<5	<5
11/17/09	1892057	<2	<3	<2	<1	11	5	40	<0.3	8	3	204	2.1	4	11	21	<0.5	<3	<3	24	0.12	0.034	32	13	0.63	353	0.098	<20	1.14	<0.01	0.44	<2	<0.05	<1	<5	<5	<5
11/17/09	1892058	<2	<3	<2	<1	20	7	42	<0.3	11	5	191	2.18	4	8	14	<0.5	<3	<3	32	0.16	0.035	31	18	0.52	285	0.102	<20	1.26	<0.01	0.27	<2	<0.05	<1	<5	<5	<5
11/17/09	1892059	2	<3	3	<1	25	7	49	<0.3	12	5	165	2.29	6	3	15	<0.5	<3	<3	36	0.19	0.047	29	20	0.5	354	0.08	<20	1.41	<0.01	0.16	<2	<0.05	<1	<5	<5	<5
11/17/09	1892060	8	5	4	<1	23	9	53	<0.3	15	5	171	2.32	6	5	19	<0.5	<3	<3	38	0.23	0.05	26	22	0.55	367	0.093	<20	1.47	<0.01	0.17	<2	<0.05	<1	<5	<5	<5
11/17/09	1892061	5	<3	<2	1	23	7	49	<0.3	13	5	186	2.64	7	5	17	<0.5	<3	<3	40	0.24	0.067	24	20	0.53	406	0.096	<20	1.21	<0.01	0.23	<2	<0.05	<1	<5	<5	<5
11/17/09	1892062	4	<3	<2	<1	20	8	47	<0.3	16	5	176	2.34	6	4	20	<0.5	<3	<3	38	0.25	0.047	32	29	0.59	527	0.107	<20	1.52	<0.01	0.22	<2	<0.05	<1	<5	<5	<5
11/17/09	1892063	3	<3	<2	<1	11	6	40	<0.3	9	4	171	2.03	5	8	14	<0.5	<3	<3	32	0.2	0.047	27	16	0.53	288	0.106	<20	1.26	<0.01	0.25	<2	<0.05	<1	<5	<5	<5
11/17/09	1892064	2	<3	3	<1	16	7	43	<0.3	12	4	165	1.97	5	7	19	<0.5	<3	<3	34	0.27	0.045	24	19	0.55	376	0.109	<20	1.19	<0.01	0.24	<2	<0.05	<1	<5	<5	<5
11/17/09	1892065	6	<3	<2	<1	12	8	41	<0.3	10	4	147	1.93	5	5	14	<0.5	<3	<3	31	0.2	0.049	21	17	0.46	284	0.09	<20	1.27	<0.01	0.16	<2	<0.05	<1	<5	<5	<5
11/17/09	1892066	3	<3	<2	<1	13	8	47	<0.3	11	4	153	2.21	6	5	15	<0.5	<3	<3	38	0.2	0.054	21	17	0.51	290	0.095	<20	1.42	<0.01	0.16	<2	<0.05	<1	<5	<5	<5
11/17/09	1892067	<2	<3	3	<1	8	5	32	<0.3	7	3	134	1.48	3	7	12	<0.5	<3	<3	24	0.21	0.055	19	12	0.39	190	0.081	<20	0.88	<0.01	0.15	<2	<0.05	<1	<5	<5	<5
11/17/09	1892068	5	<3	<2	<1	15	8	48	<0.3	11	4	122	2.18	6	4	14	<0.5	<3	<3	37	0.18	0.053	21	21	0.48	271	0.085	<20	1.49	<0.01	0.15	<2	<0.05	<1	<5	<5	<5
11/17/09	1892069	4	<3	<2	<1	13	6	42	<0.3	11	5	163	1.93	6	6	16	<0.5	<3	<3	34	0.22	0.05	20	18	0.45	276	0.091	<20	1.11	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
11/17/09	1892070	5	<3	4	<1	21	9	46	<0.3	13	4	137	2.3	7	5	13	<0.5	<3	<3	37	0.18	0.055	27	20	0.46	402	0.09	<20	1.56	<0.01	0.15	<2	<0.05	<1	<5	<5	<5
11/17/09	1892071	3	<3	<2	<1	12	9	45	<0.3	11	5	191	2.31	7	3	16	<0.5	<3	<3	37	0.21	0.056	25	20	0.5	351	0.098	<20	1.33	<0.01	0.2	<2	<0.05	<1	<5	<5	<5
11/17/09	1892072	3	<3	<2	<1	13	7	42	<0.3	10	4	138	1.88	5	6	15	<0.5	<3	<3	33	0.19	0.047	24	17	0.46	310	0.088	<20	1.22	<0.01	0.16	<2	<0.05	<1	<5	<5	<5
11/17/09	1892073	3	<3	<2	<1	14	6	40	<0.3	11	4	130	1.81	5	4	15	<0.5	<3	<3	31	0.22	0.05	23	17	0.42	326	0.082	<20	1.15	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
11/17/09	1892074	3	<3	<2	<1	11	7	40	<0.3	10	4	151	1.91	5	8	12	<0.5	<3	<3	33	0.16	0.042	23	18	0.51	240	0.092	<20	1.23	<0.01	0.2	<2	<0.05	<1	<5	<5	<5
11/17/09	1892075	2	<3	<2	<1	12	6	43	<0.3	11	4	157	1.97	4	7	13	<0.5	<3	<3	34	0.17	0.044	25	19	0.53	243	0.096	<20	1.26	<0.01	0.21	<2	<0.05	<1	<5	<5	<5
11/17/09	1892076	2	<3	2	<1	12	6	43	<0.3	11	4	161	1.91	5	7	13	<0.5	<3	<3	32	0.17	0.04	22	18	0.5	242	0.089	<20	1.18	<0.01	0.2	<2	<0.05	<1	<5	<5	<5
11/17/09	1892138	5	<3	2	1	36	7	73	<0.3	14	5	159	2.52	5	2	11	<0.5	<3	<3	45	0.14	0.045	15	28	0.6	364	0.074	<20	1.31	<0.01	0.18	<2	<0.05	<1	<5	<5	5
11/17/09	1892139	3	<3	<2	<1	15	10	70	<0.3	11	5	232	2.37	5	7	14	<0.5	<3	<3	38	0.21	0.053	33	21	0.53	266	0.077	<20	1.24	<0.01	0.18	<2	<0.05	<1	<5	<5	<5
11/17/09	1892140	7	<3	<2	<1	17	10	65	<0.3	14	7	257	2.28	7	3	17	<0.5	<3	<3	42	0.25	0.059	17	22	0.45	284	0.054	<20	1.22	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
11/17/09	1892141	13	<3	<2	<1	18	9	67	<0.3	19	9	363	2.42	9	4	25	<0.5	<3	<3	46	0.42	0.07	18	24	0.49	371	0.056	<20	1.21	0.01	0.07	<2	<0.05	<1	<5	<5	<5
11/17/09	1892142	10	<3	3	<1	23	9	70	<0.3	23	9	340	2.34	8	2	35	<0.5	<3	<3	47	0.7	0.078	14	25	0.57	398	0.058	<20	1.15	0.02	0.07	<2	<0.05	<1	<5	<5	<5
11/17/09	1892143	5	<3	<2	<1	15	9	57	<0.3	16	7	327	2.21	6	4	26	<0.5	<3	<3	39	0.48	0.07	16	20	0.44	332	0.061	<20	1.06	0.01	0.09	<2	<0.05	<1	<5	<5	<5
11/17/09	1892144	4	<3	3	<1	11	8	52	<0.3	12	5	165	1.99	7	4	16	<0.5	<3	<3	34	0.24	0.067	17	18	0.4	222	0.055	<20	1.1	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
11/17/09	1892145	3	<3	3	<1	9	8	55	<0.3	13	7	235	2.42	5	3	17	<0.5	<3	<3	43	0.26	0.063	21	21	0.49	305	0.055	<20	1.23	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
11/17/09	1892146	4	<3	2	<1	17	8	58	<0.3	19	8	435	2.23	8	2	35	<0.5	<3	<3	40	0.68	0.075	13	23	0.49	366	0.047	<20	1.09	0.01	0.06	<2	<0.05	<1	<5	<5	<5
11/17/09	1892147	4	<3	<2	<1	13	10	62	<0.3	15	6	211	2.17	6	5	19	<0.5	<3	<3	39	0.29	0.063	18	22	0.52	288	0.062	<20	1.29	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
11/17/09	1892148	3	<3	<2	<1	9	7	47	<0.3	11	4	156	1.88	6	<2	16	<0.5	<3	<3	34	0.25	0.062	14	19	0.43	214	0.05	<20	1.12	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
11/17/09	1892149	6	<3	<2	<1	18	9	58	<0.3	18	8	238	2.3	7	4	24	<0.5	<3	<3	43	0.36	0.076	16	22	0.46	316	0.054	<20	1.23	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
11/17/09	1892150	7	<3	2	<1	20	9	72	<0.3	15	8	227	2.37	6	4	17	<0.5	<3	<3	44	0.27	0.072	18	22	0.56	337	0.073	<20	1.34	<0.01	0.09	<2	<0.05	<1	<5	<5	<5
11/17/09	1892151	6	3	2	<1	20	9	74	<0.3	16	8	232	2.4	6	5	17	<0.5	<3	<3	44	0.27	0.071	18	23	0.56	329	0.072	<20	1.4	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
11/17/09	1892152	4	<3	<2	<1	13	9	50	<0.3	13	5	154	2.34	7	<2	16	<0.5	<3	<3	38	0.19	0.056	18	19	0.4	294	0.042	<20	1.23	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
11/17/09	1892153	4	<3	<2	<1	9	8	52	<0.3	11	5	181	1.94	6	3	16	<0.5	<3	<3	37	0.23	0.062	20	17	0.44	262	0.056	<20	1.18	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
11/17/09	1892154	11	<3	<2	<1	6	7	44	<0.3	9	3	112	1.5	4	2	15	<0.5	<3	<3	28	0.21	0.057	19	15	0.39	179	0.052	<20	1.01	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
11/17/09	1892155	3	<3	<2	<1	9	8	52	<0.3	11	4	146	1.67	4	4	18	<0.5	<3	<3	32	0.26	0.057	23	18	0.47	339	0.062	<20	1.19	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
11/17/09	1892156	31	<3	3	<1	12	8	50	<0.3	11	5	152	2.26	8	4	15	<0.5	<3	<3	41	0.17	0.05	22	19	0.43	286	0.07	<20	1.22	<0.01	0.09	<2	<0.05	<1	<5	<5	<5
11/17/09	1892157	4	<3	4	<1	8	8	47	<0.3	10	4	123	1.78	6	<2	13	<0.5	<3	<3	31	0.15	0.045	21	19	0.42	241	0.066	<20	1.2	<0.01	0.09	<2	<0.05	<1	<5	6	<5
11/17/09	1892158	3	<3	<2	<1	9	9	46	<0.3	10	3	123	2	6	<2	12	<0.5	<3	<3	33	0.12	0.042	22	20	0.47	216	0.073	<20	1.35	<0.01	0.1	<2	<0.05	<1	<5	6	<5
11/17/09	1892159	13	<3	<2	<1	11	9	51	<0.3	12	5	131	2.08	7	<2	17	<0.5	<3	<3	37	0.2	0.057	19	20	0.44	262	0.066	<20	1.25	<0.01	0.1	<2	<0.05	<1	<5	6	<5
11/17/09	1892160	7	<3	<2	<1	10	8	55	<0.3	12	5	149	2.13	6	3	17	<0.5	<3	<3	35	0.21	0.063	23	20	0.51	275	0.083	<20	1.39	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
11/17/09	1892161	6	<3	2	1	13	9	57	<0.3	12	6	175	2.25	6	2	15	<0.5	<3	<3	37	0.2	0.06	26	20	0.52	274	0.089	<20	1.41	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
11/17/09	1892162	3	<3	<2	<1	9	11	51	<0.3	10	4	216	2.26	5	8	13	<0.5	<3	<3	37	0.16	0.043	27	18	0.69	272	0.125	<20	1.47	<0.01	0.28	<2	<0.05	<1	<5	<5	<5
11/17/09	1892163	3	<3	<2	<1	10	7	48	<0.3	10	5	194	2.19	5	5	12	<0.5	<3	<3	36	0.15	0.048	25	19	0.58	233	0.107	<20	1.35	<0.01	0.24	<2	<0.05	<1	<5	<5	<5
11/17/09	1892164	3	<3	<2	<1	13	7	48	<0.3	11	5	239	2.38	5	8	15	<0.5	<3	<3	39	0.18	0.047	34	22	0.65	368	0.127	<20	1.51	<0.01	0.33	<2	<0.05	<1	<5	<5	<5
11/17/09	1892165	2	<3	<2	<1	9	7	42	<0.3	9	4	186	2.06	5	5	12	<0.5	<3	<3	35	0.16	0.045	25	17	0.59	309	0.109	<20	1.27	<0.01	0.25	<2	<0.05	<1	<5	<5	<5
11/17/09	1892251	8	<3	<2	<1	14	7	51	<0.3	14	8	329	2.48	6	8	11	<0.5	<3	<3	40	0.15	0.036	21	26	0.69	239	0.119	<20	1.64	<0.01	0.27	<2	<0.05	<1	<5	<5	<5
11/17/09	1892252	2	<3	<2	<1	12	12	44	<0.3	11	4	289	2.25	3	14	13	<0.5	<3	<3	24	0.18	0.041	75	16	0.68	434	0.1	<20	1.41	<0.01	0.49	<2	<0.05	<1	<5	<5	<5
11/17/09	1892253	2	<3	<2	<1	10	11	47	<0.3	12	6	244	2.6	5	7	11	<0.5	<3	<3	38	0.16	0.05	29	22	0.64	284	0.134	<20	1.61	<0.01	0.37	<2	<0.05	<1	<5	6	<5
11/17/09	1892254	4	<3	<2	<1	16	11	46	<0.3	15	7	231	2.87	9	6	11	<0.5	<3	<3	50	0.1	0.02	33	28	0.54	312	0.106	<20	1.89	<0.01	0.13	<2	<0.05	<1	<5	6	<5
11/17/09	1892255	3	<3	<2	<1	11	9	44	<0.3	11	6	297	2.29	5	7	10	<0.5	<3	<3	34	0.13	0.03	31	19	0.53	284	0.118	<20	1.37	<0.01	0.25	<2	<0.05	<1	<5	<5	<5
11/17/09	1892256	3	<3	<2	<1	10	10	48	<0.3	9	5	250	2.33	5	8	9	<0.5	<3	<3	32	0.11	0.045	39	15	0.49	335	0.123	<20	1.45	<0.01	0.32	<2	<0.05	<1	<5	6	<5
11/17/09	1892257	4	<3	<2	<1	10	10	52	<0.3	10	6	292	2.48	5	9	10	<0.5	<3	<3	35	0.12	0.034	30	18	0.59	295	0.114	<20	1.57	<0.01	0.28	<2	<0.05	<1	<5	<5	<5
11/17/09	1892258	5	4	<2	<1	9	10	46	<0.3	10	5	247	2.19	5	8	9	<0.5	<3	<3	33	0.1	0.031	26	17	0.53	297	0.093	<20	1.35	<0.01	0.18	<2	<0.05	<1	<5	5	<5
11/17/09	1892432	4	<3	<2	<1	9	6	43	<0.3	9	4	228	1.92	4	10	13	<0.5	<3	<3	22	0.1	0.022	30	12	0.7	333	0.073	<20	1.34	<0.01	0.25	<2	<0.05	<1	<5	<5	<5
11/17/09	1892433	6	<3	<2	<1	18	9	53	<0.3	21	7	184	3.21	11	11	18	<0.5	<3	<3	46	0.13	0.03	20	28	0.41	461	0.035	<20	2.02	<0.01	0.09	<2	<0.05	<1	<5	<5	<5
11/17/09	1892434	<2	<3	<2	<1	8	8	75	<0.3	9	7	398	2.61	4	15	30	<0.5	<3	<3	35	0.13	0.027	37	35	0.82	397	0.081	<20	1.67	<0.01	0.31	<2	<0.05	<1	<5	<5	<5
11/17/09	1892435	3	<3	<2	2	12	16	56	<0.3	18	11	578	2.83	8	10	17	<0.5	<3	6	48	0.19	0.051	49	31	0.46	488	0.067	<20	1.56	<0.01	0.18	<2	<0.05	<1	<5	<5	<5
11/17/09	1892436	<2	<3	<2	<1	14	5	38	<0.3	13	5	179	1.78	4	7	12	<0.5	<3	<3	29	0.13	0.029	22	16	0.29	175	0.049	<20	0.88	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
11/17/09	1892437	5	4	<2	1	11	9	51	<0.3	15	7	261	2.37	6	9	17	<0.5	<3	<3	37	0.23	0.045	27	24	0.46	354	0.082	<20	1.28	<0.01	0.19	<2	<0.05	<1	<5	<5	<5
11/17/09	1892438	11	<3	12	2	38	9	72	<0.3	29	14	481	4	9	36	39	<0.5	<3	<3	50	0.52	0.07	180	31	0.54	920	0.07	<20	2.72	<0.01	0.22	<2	<0.05	<1	<5	<5	9
11/17/09	1892439	3	<3	<2	1	21	8	47	<0.3	19	7	226	2.32	8	7	21	<0.5	<3	<3	40	0.29	0.045	24	27	0.48	364	0.092	<20	1.38	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
11/17/09	1892440	4	<3	<2	1	21	6	52	<0.3	19	9	353	2.57	8	5	31	<0.5	<3	<3	45	0.42	0.056	21	27	0.51	426	0.081	<20	1.51	0.01	0.1	<2	<0.05	<1	<5	<5	<5
11/17/09	1892441	4	<3	2	1	23	8	53	<0.3	21	9	365	2.65	9	4	32	<0.5	<3	4	47	0.45	0.054	21	27	0.52	465	0.082	<20	1.6	<0.01	0.1	<2	<0.05	<1	<5	<5	<5
11/17/09	1892442	4	<3	2	1	13	4	47	<0.3	13	7	297	2.31	7	8	24	<0.5	<3	<3	36	0.34	0.056	38	21	0.54	447	0.097	<20	1.51	<0.01	0.22	<2	<0.05	<1	<5	<5	<5
11/17/09	1892443	4	<3	<2	1	8	5	47	<0.3	10	7	394	2.3	6	8	17	<0.5	<3	3	37	0.25	0.056	35	19	0.56	336	0.101	<20	1.42	<0.01	0.25	<2	<0.05	<1	<5	<5	<5
11/17/09	1892444	2	<3	<2	1	18	6	68	<0.3	21	8	397	2.26	8	3	28	<0.5	<3	5	38	0.47	0.079	12	21	0.48	287	0.048	<20	1.03	0.02	0.06	<2	<0.05	<1	<5	<5	<5
11/17/09	1892445	4	3	6	1	21	7	54	<0.3	19	8	343	1.98	8	<2	38	<0.5	<3	<3	35	0.8	0.071	10	19	0.45	246	0.045	<20	0.92	0.02	0.06	<2	<0.05	<1	<5	<5	<5
11/17/09	1892446	6	<3	<2	1	23	11	67	<0.3	21	9	280	2.75	10	5	24	<0.5	<3	<3	48	0.3	0.059	20	29	0.55	418	0.079	<20	1.55	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
11/17/09	1892447	6	<3	<2	1	24	8	67	<0.3	22	9	331	2.66	9	5	28	<0.5	<3	<3	47	0.37	0.063	21	29	0.58	429	0.086	<20	1.47	0.01	0.1	<2	<0.05	<1	<5	<5	<5
11/17/09	1892448	2	<3	<2	<1	16	5	46	<0.3	13	6	239	2.31	6	6	13	<0.5	<3	<3	41	0.16	0.038	21	24	0.56	200	0.106	<20	1.44	<0.01	0.2	<2	<0.05	<1	<5	<5	<5
11/17/09	1892449	3	<3	<2	<1	19	10	47	<0.3	15	8	254	2.32	7	7	14	<0.5	<3	<3	42	0.18	0.04	29	22	0.63	211	0.1	<20	1.41	<0.01	0.24	<2	<0.05	<1	<5	<5	<5
11/17/09	1892450	<2	<3	<2	1	27	11	51	<0.3	15	8	345	2.73	7	8	18	<0.5	<3	3	51	0.22	0.051	33	26	0.76	301	0.118	<20	1.59	<0.01	0.38	<2	<0.05	<1	<5	<5	<5
12/17/09	1892077	4	<3	3	<1	23	7	44	<0.3	10	4	223	1.87	4	3	14	<0.5	<3	<3	27	0.19	0.052	22	17	0.41	358	0.069	<20	1.12	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
12/17/09	1892078	5	<3	3	<1	18	6	35	<0.3	7	2	94	1.61	5	<2	11	<0.5	<3	<3	24	0.12	0.042	15	14	0.31	170	0.045	<20	0.94	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
12/17/09	1892079	9	<3	3	<1	12	7	40	<0.3	10	3	93	1.58	5	<2	12	<0.5	<3	<3	25	0.16	0.044	11	14	0.31	179	0.036	<20	0.9	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
12/17/09	1892080	5	<3	<2	1	37	10	76	<0.3	17	6	229	2.76	6	<2	14	<0.5	<3	<3	45	0.16	0.05	20	28	0.72	448	0.106	<20	1.53	<0.01	0.3	<2	<0.05	<1	<5	<5	5
12/17/09	1892081	3	<3	2	1	34	10	68	<0.3	18	5	187	2.5	8	5	13	<0.5	<3	<3	38	0.13	0.051	21	22	0.58	319	0.086	<20	1.45	<0.01	0.19	<2	<0.05	<1	<5	<5	<5
12/17/09	1892082	3	<3	2	1	28	8	86	<0.3	20	7	282	2.71	7	4	10	<0.5	<3	<3	43	0.09	0.029	14	30	0.71	309	0.099	<20	1.48	<0.01	0.3	<2	<0.05	<1	<5	<5	<5
12/17/09	1892083	3	<3	<2	2	97	5	122	<0.3	13	10	478	4.72	3	4	9	<0.5	<3	<3	48	0.06	0.057	17	17	0.98	783	0.153	<20	1.67	<0.01	0.85	<2	0.1	<1	<5	<5	11
12/17/09	1892084	4	<3	3	1	30	6	55	<0.3	11	6	228	2.6	4	<2	15	<0.5	<3	<3	41	0.2	0.054	12	19	0.61	584	0.08	<20	1.2	<0.01	0.3	<2	<0.05	<1	<5	<5	5
12/17/09	1892259	8	<3	<2	<1	25	6	46	<0.3	10	4	162	2.02	6	3	12	<0.5	<3	<3	34	0.16	0.049	24	17	0.44	261	0.072	<20	1.12	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
12/17/09	1892260	7	<3	<2	<1	10	7	31	<0.3	6	2	74	1.48	3	<2	10	<0.5	<3	<3	18	0.12	0.038	11	13	0.27	146	0.036	<20	0.79	<0.01	0.06	<2	0.06	<1	<5	<5	<5
12/17/09	1892261	9	<3	<2	<1	9	7	31	<0.3	7	2	75	1.43	4	<2	10	<0.5	<3	<3	18	0.11	0.036	11	13	0.27	137	0.036	<20	0.78	<0.01	0.06	<2	0.06	<1	<5	<5	<5
12/17/09	1892262	9	<3	<2	1	19	11	53	<0.3	12	5	153	2.36	8	<2	14	<0.5	<3	<3	37	0.16	0.058	13	20	0.41	207	0.042	<20	1.22	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
12/17/09	1892263	6	<3	<2	2	34	11	69	<0.3	15	5	200	2.6	7	5	14	<0.5	<3	<3	40	0.12	0.047	21	23	0.54	255	0.085	<20	1.45	<0.01	0.18	<2	0.08	<1	<5	<5	<5
12/17/09	1892264	4	3	2	2	31	9	84	<0.3	18	8	283	2.86	9	6	12	<0.5	<3	<3	43	0.1	0.033	17	23	0.6	314	0.086	<20	1.54	<0.01	0.21	<2	<0.05	<1	<5	<5	<5
12/17/09	1892265	3	<3	<2	1	33	9	59	<0.3	14	6	235	3.15	8	<2	12	<0.5	<3	<3	58	0.12	0.039	14	28	0.62	320	0.095	<20	1.75	<0.01	0.19	<2	<0.05	<1	<5	7	5
12/17/09	1892266	8	4	3	2	88	7	109	0.5	14	9	416	4.55	4	<2	15	<0.5	<3	<3	72	0.17	0.064	14	25	1.35	855	0.172	<20	2.3	0.01	0.87	<2	0.18	<1	<5	7	10
12/17/09	1892267	5	3	2	<1	26	7	55	<0.3	11	5	158	2.31	4	<2	13	<0.5	<3	<3	46	0.16	0.044	13	20	0.62	284	0.074	<20	1.31	<0.01	0.17	<2	<0.05	<1	<5	6	<5
09/17/09	1891799	6	<3	<2	<1	31	10	70	<0.3	14	7	344	2.62	5	3	14	<0.5	<3	<3	52	0.27	0.029	32	32	0.9	227	0.129	23	1.62	<0.01	0.35	<2	<0.05	<1	<5	<5	<5
09/17/09	1891800	2	<3	<2	<1	9	7	54	<0.3	13	9	680	2.87	5	2	11	<0.5	<3	<3	55	0.16	0.041	10	33	1.1	314	0.19	23	1.82	<0.01	0.68	<2	<0.05	<1	<5	<5	<5
09/17/09	1891933	4	<3	<2	<1	43	7	72	<0.3	19	11	541	3.42	7	4	15	<0.5	<3	<3	80	0.22	0.029	40	44	1.27	358	0.183	22	2.26	<0.01	0.61	<2	<0.05	<1	<5	6	<5
09/17/09	1891934	6	<3	2	<1	30	7	60	<0.3	33	11	335	3.06	9	5	13	<0.5	<3	<3	65	0.17	0.025	124	86	1.24	369	0.169	<20	2.27	<0.01	0.41	<2	<0.05	<1	<5	<5	<5
09/17/09	1891935	3	<3	<2	<1	28	11	64	<0.3	19	8	390	3.49	13	<2	11	<0.5	<3	<3	74	0.12	0.063	7	37	0.64	222	0.137	<20	1.78	<0.01	0.33	<2	<0.05	<1	<5	6	<5
09/17/09	1891936	4	<3	5	<1	66	9	52	<0.3	20	10	252	3.44	14	<2	15	<0.5	<3	<3	83	0.2	0.036	7	39	0.73	164	0.07	<20	1.99	0.01	0.08	<2	<0.05	<1	<5	<5	<5
09/17/09	1891937	3	<3	<2	<1	8	11	44	<0.3	11	5	256	2.65	10	<2	14	<0.5	<3	<3	61	0.17	0.065	10	25	0.37	163	0.048	<20	1.34	<0.01	0.07	<2	<0.05	<1	<5	6	<5
09/17/09	1891938	<2	<3	2	<1	10	10	45	<0.3	13	6	217	2.64	10	<2	10	<0.5	<3	<3	44	0.1	0.034	8	24	0.43	131	0.044	<20	1.41	<0.01	0.06	<2	<0.05	<1	<5	5	<5
09/17/09	1891939	2	<3	<2	1	12	14	54	<0.3	17	7	230	3	12	4	10	<0.5	<3	<3	58	0.1	0.035	13	31	0.44	188	0.049	<20	2.12	<0.01	0.07	<2	<0.05	<1	<5	7	<5
09/17/09	1891940	13	<3	<2	<1	22	12	55	<0.3	19	8	244	2.72	12	3	9	<0.5	<3	<3	48	0.07	0.018	19	30	0.46	184	0.05	<20	1.72	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
09/17/09	1891941	5	<3	<2	<1	21	11	54	<0.3	19	8	244	2.72	11	<2	9	<0.5	<3	<3	48	0.08	0.018	18	30	0.46	184	0.05	<20	1.72	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
09/17/09	1891942	<2	<3	<2	<1	12	12	82	<0.3	21	11	336	3.21	11	3	19	<0.5	<3	<3	61	0.2	0.039	9	39	0.71	198	0.099	<20	2.17	<0.01	0.17	<2	<0.05	<1	<5	5	<5
09/17/09	1891943	5	<3	3	<1	30	14	66	<0.3	25	10	237	3.61	10	7	7	<0.5	<3	<3	48	0.08	0.036	20	39	0.66	175	0.105	<20	2.4	<0.01	0.38	<2	<0.05	<1	<5	6	<5
09/17/09	1891944	3	<3	<2	<1	22	13	72	<0.3	24	13	322	3.46	11	7	8	<0.5	<3	<3	46	0.08	0.025	13	35	0.69	156	0.127	<20	2.17	<0.01	0.37	<2	<0.05	<1	<5	<5	<5
09/17/09	1891945	5	<3	<2	<1	21	13	57	<0.3	19	9	295	2.94	12	4	9	<0.5	<3	<3	51	0.1	0.036	31	28	0.49	163	0.091	<20	1.69	<0.01	0.17	<2	<0.05	<1	<5	<5	<5
09/17/09	1891946	4	<3	<2	<1	28	12	74	<0.3	30	13	304	3.49	11	5	7	<0.5	<3	<3	44	0.08	0.028	20	32	0.74	147	0.136	<20	2.19	<0.01	0.44	<2	<0.05	<1	<5	<5	<5
09/17/09	1891947	3	<3	<2	<1	31	17	93	<0.3	32	16	625	4	4	9	7	<0.5	<3	<3	45	0.14	0.076	21	45	1.03	194	0.234	<20	2.48	<0.01	1.01	<2	<0.05	<1	<5	<5	<5
09/17/09	1891948	4	<3	<2	<1	27	14	72	<0.3	24	12	312	3.36	13	12	9	<0.5	<3	<3	36	0.09	0.018	42	29	0.52	177	0.071	<20	1.77	<0.01	0.17	<2	<0.05	<1	<5	<5	<5
09/17/09	1891949	2	<3	<2	<1	34	14	91	<0.3	38	17	517	4.1	6	11	7	<0.5	<3	<3	44	0.09	0.038	32	32	0.88	179	0.16	<20	2.37	<0.01	0.69	<2	<0.05	<1	<5	<5	<5
09/17/09	1891950	3	<3	<2	<1	82	20	95	<0.3	39	18	633	4.36	5	16	7	<0.5	<3	<3	38	0.11	0.048	25	29	0.96	190	0.243	<20	2.57	<0.01	1.01	<2	<0.05	<1	<5	<5	<5
09/17/09	1891964	6	<3	2	<1	13	10	47	<0.3	14	6	228	2.33	7	5	11	<0.5	<3	<3	43	0.11	0.018	19	28	0.52	132	0.092	<20	1.57	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
09/17/09	1891965	6	<3	<2	<1	17	9	50	<0.3	15	7	234	2.34	8	2	12	<0.5	<3	<3	40	0.12	0.02	27	29	0.48	223	0.069	<20	1.44	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
09/17/09	1891966	5	<3	2	<1	15	11	46	<0.3	17	7	204	2.52	10	<2	11	<0.5	<3	<3	46	0.1	0.027	12	28	0.43	194	0.057	<20	1.54	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
09/17/09	1891967	4	<3	<2	2	48	9	125	0.9	117	14	766	2.84	243	6	7	<0.5	<3	<3	65	0.52	0.047	35	183	1.08	169	0.026	<20	1.65	<0.01	0.04	<2	<0.05	<1	<5	<5	12
09/17/09	1891968	<2	<3	<2	<1	10	11	40	<0.3	14	6	163	2.28	16	<2	9	<0.5	<3	<3	42	0.13	0.015	9	22	0.3	166	0.024	<20	1.33	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
09/17/09	1891969	2	<3	<2	<1	34	18	118	<0.3	42	17	621	4.93	<2	22	5	<0.5	<3	<3	40	0.09	0.044	67	30	0.75	165	0.177	<20	2.18	<0.01	0.84	<2	<0.05	<1	<5	<5	7
09/17/09	1891970	3	<3	<2	1	21	12	41	0.7	14	6	208	2.56	29	<2	11	<0.5	<3	<3	55	0.1	0.026	12	24	0.27	189	0.037	<20	1.47	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
09/17/09	1891971	<2	<3	<2	<1	28	17	82	<0.3	34	13	329	4.02	6	11	7	<0.5	<3	<3	46	0.08	0.025	29	40	1	173	0.227	<20	2.71	<0.01	0.84	<2	<0.05	<1	<5	<5	<5
09/17/09	1891972	2	<3	<2	<1	22	12	51	<0.3	19	9	202	2.96	7	5	8	<0.5	<3	<3	58	0.07	0.016	33	33	0.52	176	0.11	<20	2.13	<0.01	0.17	<2	<0.05	<1	<5	<5	<5
09/17/09	1891973	5	<3	<2	<1	24	13	49	<0.3	21	8	183	2.9	10	7	8	<0.5	<3	<3	48	0.08	0.025	25	32	0.48	156	0.083	<20	2.31	<0.01	0.15	<2	<0.05	<1	<5	<5	<5
09/17/09	1891974	5	<3	<2	<1	25	12	49	<0.3	20	10	288	2.99	8	5	9	<0.5	<3	<3	46	0.1	0.037	19	28	0.49	168	0.097	<20	1.83	<0.01	0.21	<2	<0.05	<1	<5	<5	<5
09/17/09	1891975	4	<3	<2	<1	20	12	54	<0.3	23	10	234	3.27	12	4	12	<0.5	<3	<3	55	0.11	0.022	13	33	0.55	212	0.078	<20	2.06	<0.01	0.11	<2	<0.05	<1	<5	<5	<5
09/17/09	1891976	2	<3	<2	<1	16	9	57	<0.3	26	10	312	3.41	7	3	13	<0.5	<3	<3	76	0.17	0.059	15	95	1.09	287	0.172	<20	2.24	<0.01	0.38	<2	<0.05	<1	<5	<5	<5
09/17/09	1891977	2	<3	<2	<1	12	10	50	<0.3	19	8	262	3.47	9	<2	8	<0.5	<3	<3	54	0.1	0.043	11	62	0.74	144	0.101	<20	1.87	<0.01	0.18	<2	<0.05	<1	<5	<5	<5
09/17/09	1891978	3	<3	2	<1	20	11	52	<0.3	21	9	213	2.89	9	3	8	<0.5	<3	<3	46	0.07	0.022	16	31	0.52	148	0.094	<20	2.08	<0.01	0.17	<2	<0.05	<1	<5	<5	<5
09/17/09	1891979	4	<3	3	<1	18	13	48	<0.3	18	8	212	3.06	10	10	9	<0.5	<3	<3	47	0.08	0.019	25	28	0.48	143	0.104	<20	1.89	<0.01	0.17	<2	<0.05	<1	<5	<5	<5
09/17/09	1891980	3	<3	2	<1	29	16	75	<0.3	30	11	348	4.61	10	6	9	<0.5	<3	<3	50	0.1	0.034	26	35	0.79	168	0.216	<20	2.63	<0.01	0.53	<2	<0.05	<1	<5	<5	<5
09/17/09	1891981	3	<3	<2	<1	28	15	71	<0.3	29	12	313	4.07	11	9	9	<0.5	<3	<3	49	0.1	0.031	35	34	0.75	175	0.192	<20	2.55	<0.01	0.48	<2	<0.05	<1	<5	<5	<5
09/17/09	1891982	2	<3	<2	<1	11	12	35	<0.3	13	5	121	2.53	8	5	8	<0.5	<3	<3	45	0.08	0.023	23	20	0.34	108	0.062	<20	1.28	<0.01	0.11	<2	<0.05	<1	<5	<5	<5
09/17/09	1891983	4	<3	<2	<1	20	9	52	<0.3	21	10	269	2.65	9	6	13	<0.5	<3	<3	42	0.11	0.017	38	26	0.52	153	0.075	<20	1.51	<0.01	0.1	<2	<0.05	<1	<5	<5	<5
09/17/09	1891984	5	<3	3	<1	26	12	64	<0.3	31	13	285	3.7	8	9	8	<0.5	<3	<3	58	0.06	0.022	16	36	0.72	179	0.156	<20	2.47	<0.01	0.37	<2	<0.05	<1	<5	<5	<5
09/17/09	1891985	3	<3	<2	<1	25	11	65	<0.3	31	13	323	3.46	11	8	8	<0.5	<3	<3	47	0.09	0.025	16	32	0.72	194	0.143	<20	2.22	<0.01	0.37	<2	<0.05	<1	<5	<5	<5
09/17/09	1891986	4	3	3	1	16	16	42	<0.3	16	8	237	2.77	7	5	9	<0.5	<3	<3	53	0.09	0.032	17	23	0.37	182	0.061	<20	1.84	<0.01	0.11	<2	<0.05	<1	<5	5	<5
09/17/09	1891987	<2	<3	<2	<1	21	14	74	<0.3	26	9	267	4.33	10	6	10	<0.5	<3	<3	52	0.11	0.041	14	29	0.67	208	0.174	<20	2.64	<0.01	0.58	<2	<0.05	<1	<5	<5	<5
09/17/09	1892001	5	<3	5	<1	15	4	41	<0.3	17	7	211	2.22	3	7	15	<0.5	<3	<3	43	0.3	0.059	26	37	0.77	247	0.115	<20	1.39	<0.01	0.39	<2	<0.05	<1	<5	<5	<5
09/17/09	1892002	<2	<3	3	<1	15	6	48	<0.3	15	7	234	2.16	4	6	13	<0.5	<3	<3	40	0.21	0.042	20	41	0.71	208	0.101	<20	1.37	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
09/17/09	1892003	2	<3	3	<1	24	7	53	<0.3	15	7	239	2.5	5	4	14	<0.5	<3	<3	55	0.2	0.034	25	44	0.76	241	0.113	<20	1.56	<0.01	0.15	<2	<0.05	<1	<5	<5	<5

1892004	09/09/17	63.53963	-138.64	7047879	617315.4		40-50	C	15-20	Light Brow	0	5	40	40	5	10	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/17/09	1892004	2	<3	3	<1	21	6	52	<0.3	12	6	252	2.38	6	<2	13	<0.5	<3	<3	59	0.16	0.027	12	38	0.68	216	0.115	<20	1.32	<0.01	0.13	<2	<0.05	<1	<5	<5		<5
1892005	09/09/17	63.53964	-138.641	7047880	617264.6		30-40	C	10-15	Light Brow	0	5	50	30	0	15	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/17/09	1892005	2	<3	<2	1	15	6	50	<0.3	13	5	235	2.5	5	10	13	<0.5	<3	<3	38	0.14	0.03	23	31	0.74	313	0.1	<20	1.31	<0.01	0.28	<2	<0.05	<1	<5	<5		<5
1892006	09/09/17	63.53966	-138.642	7047879	617216.3		40-50	O	15-20	Light Brow	0	0	40	35	0	25	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/17/09	1892006	2	<3	<2	<1	22	6	51	<0.3	11	6	266	2.31	6	8	10	<0.5	<3	<3	41	0.12	0.019	20	23	0.58	195	0.095	<20	1.33	<0.01	0.18	<2	<0.05	<1	<5	<5		<5
1892007	09/09/17	63.53969	-138.643	7047880	617169.3		30-40	C	10-15	Light Brow	0	0	45	35	0	20	Weatherec	Dry	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/17/09	1892007	2	<3	<2	<1	17	6	50	<0.3	12	6	242	2.19	5	6	10	<0.5	<3	<3	39	0.14	0.026	17	27	0.64	224	0.113	<20	1.32	<0.01	0.25	<2	<0.05	<1	<5	<5		<5
1892008	09/09/17	63.53969	-138.644	7047872	617110.1		30-40	C	10-15	Light Brow	0	0	45	35	0	20	Weatherec	Frozen	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/17/09	1892008	<2	<3	2	<1	11	5	43	<0.3	12	6	226	2.23	5	5	10	<0.5	<3	<3	39	0.14	0.033	15	29	0.63	210	0.109	<20	1.35	<0.01	0.25	<2	<0.05	<1	<5	<5		<5
1892009	09/09/17	63.53969	-138.645	7047877	617063.1		30-40	C	10-15	Light Brow	5	5	40	30	0	25	Weatherec	Dry	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/17/09	1892009	<2	<3	2	<1	11	5	45	<0.3	11	5	207	2.44	6	5	9	<0.5	<3	<3	47	0.12	0.033	13	29	0.61	174	0.114	<20	1.32	<0.01	0.17	<2	<0.05	<1	<5	<5		<5
1892010	09/09/17	63.53967	-138.646	7047872	617011.8		30-40	C	5-10	Light Brow	0	5	35	40	5	15	Weatherec	Dry	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/17/09	1892010	3	<3	3	<1	11	7	49	<0.3	11	6	253	2.68	8	6	10	<0.5	<3	<3	50	0.15	0.054	17	28	0.64	189	0.114	<20	1.46	<0.01	0.18	<2	<0.05	<1	<5	<5		<5
1892011	09/09/17	63.53954	-138.647	7047856	616966.2		30-40	C	10-15	Light Brow	0	0	25	35	25	15	Weatherec	Dry	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/17/09	1892011	2	<3	2	<1	10	8	44	<0.3	11	5	198	2.29	7	6	11	<0.5	<3	<3	44	0.14	0.037	16	23	0.47	169	0.086	<20	1.36	<0.01	0.1	<2	<0.05	<1	<5	<5		<5
1892012	09/09/17	63.5395	-138.648	7047850	616917.6		20-30	C	5-10	Light Brow	0	0	30	30	10	30	Weatherec	Dry	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/17/09	1892012	8	<3	<2	<1	9	6	41	<0.3	13	5	181	2.04	4	5	8	<0.5	<3	<3	36	0.13	0.036	13	26	0.52	115	0.09	<20	1.21	<0.01	0.14	<2	<0.05	<1	<5	<5		<5
1892013	09/09/17	63.53946	-138.649	7047844	616870.5		20-30	C	5-10	Light Brow	0	5	45	35	0	15	Weatherec	Dry	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/17/09	1892013	3	<3	<2	<1	8	6	40	<0.3	13	5	183	1.99	6	6	8	<0.5	<3	<3	37	0.13	0.033	14	22	0.46	130	0.084	<20	1.07	<0.01	0.11	<2	<0.05	<1	<5	<5		<5
1892014	09/09/17	63.53946	-138.65	7047842	616816.1		20-30	C	2-5	Light Brow	0	5	30	40	10	15	Weatherec	Dry	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/17/09	1892014	6	<3	<2	<1	12	6	42	<0.3	13	5	164	1.82	4	7	13	<0.5	<3	<3	33	0.18	0.038	20	21	0.43	177	0.073	<20	1	<0.01	0.08	<2	<0.05	<1	<5	<5		<5
1892015	09/09/17	63.5394	-138.651	7047833	616764.6		40-50	C	15-20	Light Brow	0	0	40	30	5	25	Weatherec	Dry	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/17/09	1892015	12	<3	<2	<1	10	6	33	<0.3	10	4	159	1.93	5	8	13	<0.5	<3	<3	33	0.18	0.031	23	18	0.43	226	0.082	<20	1.09	<0.01	0.14	<2	<0.05	<1	<5	<5		<5
1892016	09/09/17	63.53934	-138.652	7047825	616719.7		20-30	C	5-10	Light Brow	0	0	40	40	10	10	Weatherec	Dry	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/17/09	1892016	3	<3	<2	<1	9	7	37	<0.3	11	5	168	1.98	6	6	11	<0.5	<3	<3	37	0.14	0.025	18	21	0.42	170	0.081	<20	1.2	<0.01	0.08	<2	<0.05	<1	<5	<5		<5
1892017	09/09/17	63.53929	-138.653	7047817	616669.4		20-30	B/C	10-15	Light Brow	5	5	35	30	5	20	Weatherec	Dry	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/17/09	1892017	3	<3	2	<1	10	6	34	<0.3	9	4	133	1.84	5	4	10	<0.5	<3	<3	33	0.12	0.034	13	17	0.37	153	0.066	<20	1.11	<0.01	0.07	<2	<0.05	<1	<5	<5		<5
1892018	09/09/17	63.53923	-138.654	7047808	616613.9		20-30	C	10-15	Light Brow	0	0	30	40	10	20	Weatherec	Dry	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/17/09	1892018	3	<3	<2	<1	10	6	36	<0.3	10	5	184	1.85	5	9	11	<0.5	<3	<3	31	0.13	0.016	24	17	0.45	234	0.072	<20	1.06	<0.01	0.1	<2	<0.05	<1	<5	<5		<5
1892019	09/09/17	63.53922	-138.655	7047806	616567.3		60-70	C	25-30	Olive Grey	0	0	0	60	40	0	Weatherec	Saturated	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/17/09	1892019	5	<3	2	1	27	16	75	<0.3	25	7	288	2.54	9	6	24	<0.5	<3	<3	42	0.37	0.065	19	29	0.51	443	0.072	<20	1.32	<0.01	0.1	<2	<0.05	<1	<5	<5		<5
1892020	09/09/17	63.53916	-138.656	7047794	616513.6		40-50	C	15-20	Dark Grey	5	0	0	60	35	0	Fluvial - St	Saturated	Evergreen	Valley Bott	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/17/09	1892020	6	3	<2	<1	18	10	49	<0.3	16	7	278	2.2	7	6	25	<0.5	<3	<3	38	0.38	0.046	21	23	0.45	431	0.065	<20	1.34	<0.01	0.06	<2	<0.05	<1	<5	<5		<5
1892021	09/09/17	63.53909	-138.656	7047790	616515.7	1892020	40-50	C	15-20	Dark Grey	5	0	0	60	35	0	Fluvial - St	Saturated	Evergreen	Valley Bott	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	FieldDuplic	09/17/09	1892021	4	5	3	<1	21	11	49	<0.3	18	8	322	2.31	7	6	29	<0.5	<3	<3	39	0.42	0.049	23	24	0.45	485	0.064	<20	1.42	<0.01	0.06	<2	<0.05	<1	<5	<5		<5
1892101	09/09/17	63.53237	-138.621	7047105	618277.2		20-30	B/C	15-20	Light Brow	5	0	40	40	10	5	Weatherec	Dry	Evergreen	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		09/17/09	1892101	3	<3	<2	<1	18	14	68	<0.3	25	13	344	3.92	10	4	8	<0.5	<3	<3	61	0.08	0.03	10	45	0.81	165	0.171	<20	2.77	<0.01	0.43	<2	<0.05	<1	<5	<5		<5
1892102	09/09/17	63.5327	-138.622	7047141	618247.2		30-40	C	15-20	Yellowish (	5	0	30	40	5	25	Weatherec	Dry	Evergreen	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		09/17/09	1892102	<2	<3	2	<1	30	16	72	<0.3	28	13	315	3.95	11	9	7	<0.5	<3	<3	45	0.07	0.025	19	35	0.84	136	0.155	<20	2.77	<0.01	0.51	<2	<0.05	<1	<5	<5		<5
1892103	09/09/17	63.53301	-138.622	7047175	618212.4		40-50	B/C	20-25	Light Brow	0	0	30	40	20	10	Weatherec	Dry	Evergreen	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		09/17/09	1892103	4	<3	<2	<1	22	11	66	<0.3	21	13	394	3.93	15	4	12	<0.5	<3	<3	72	0.13	0.048	11	48	1.03	255	0.143	<20	3.14	<0.01	0.41	<2	<0.05	<1	<5	<5		<5
1892104	09/09/17	63.53341	-138.623	7047218	618184.1		30-40	C	20-25	Light Brow	0	0	40	40	10	10	Weatherec	Dry	Evergreen	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		09/17/09	1892104	4	<3	<2	<1	21	11	71	<0.3	30	13	381	3.77	9	4	10	<0.5	<3	<3	61	0.13	0.043	16	69	1.12	300	0.189	<20	2.86	<0.01	0.59	<2	<0.05	<1	<5	<5		<5
1892105	09/09/17	63.53373	-138.624	7047252	618144.7		40-50	C	25-30	Light Brow	5	0	35	40	10	10	Weatherec	Dry	Evergreen	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		09/17/09	1892105	<2	<3	<2	1	12	12	47	<0.3	17	7	213	3.31	11	3	13	<0.5	<3	<3	63	0.12	0.032	11	34	0.54	229	0.098	<20	2.07	<0.01	0.12	<2	<0.05	<1	<5		7	<5
1892106	09/09/17	63.53403	-138.624	7047285	618112.1		20-30	B/C	15-20	Yellowish (	5	0	30	30	5	30	Weatherec	Dry	Evergreen	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		09/17/09	1892106	<2	<3	<2	2	56	15	84	<0.3	33	13	504	4.74	10	8	6	<0.5	<3	<3	65	0.06	0.057	12	36	0.92	173	0.21	<20	2.64	<0.01	0.59	<2	<0.05	<1	<5	<5		<5
1892107	09/09/17	63.53436	-138.625	7047319	618067.2		30-40	C	25-30	Light Brow	0	0	50	25	10	15	Weatherec	Dry	Evergreen	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		09/17/09	1892107	<2	<3	<2	<1	26	13	73	<0.3	27	13	366	4.13	11	4	9	<0.5	<3	<3	61	0.1	0.035	12	47	1.05	222	0.18	<20	3.15	<0.01	0.61	<2	<0.05	<1	<5		6	<5
1892108	09/09/17	63.53467	-138.626	7047352	618030.1		30-40	B/C	20-25	Light Brow	5	0	35	35	10	15	Weatherec	Dry	Evergreen	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		09/17/09	1892108	2	<3	<2	<1	50	13	83	<0.3	36	14	436	4.35	9	9	8	<0.5	<3	<3	60	0.06	0.023	35	38	0.84	163	0.184	<20	2.84	<0.01	0.6	<2	<0.05	<1	<5	<5		<5
1892401	09/09/17	63.52493	-138.629	7046263	617937.3		20-30	C	5-10	Light Brow	0	15	5	30	30	20	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/17/09	1892401	2	<3	<2	<1	12	12	62	<0.3	16	7	393	2.96	11	4	11	<0.5	<3	<3	55	0.12	0.048	11	25	0.51	238	0.069	<20	1.78	<0.01	0.12	<2	<0.05	<1	<5		7	<5
1892402	09/09/17	63.52459	-138.629	7046224	617919.5		20-30	C	5-10	Light Brow	0	5	5	30	40	20	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/17/09	1892402	2	<3	<2	<1	13	12	60	<0.3	16	10	376	3.5	10	5	12	<0.5	<3	<3	64	0.12	0.032	11	23	0.88	284	0.143	<20	2.24	<0.01	0.48	<2	<0.05	<1	<5		8	<5
1892403	09/09/17	63.52422	-138.63	7046182	617886		20-30	C	5-10	Light Brow	0	10	5	30	40	15	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/17/09	1892403	3	<3	<2	<1	7	7	46	<0.3	11	7	347	3.14	7	6	9	<0.5	<3	<3	43	0.1	0.023	8	25	1.1	229	0.2	<20	2.24	<0.01	0.52	<2	<0.05	<1	<5		8	<5
1892404	09/09/17	63.5239	-138.63	7046145	617860.6		10-20	C	5-10	Light Brow	0	5	5	30	40	20	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/17/09	1892404	<2	<3	<2	<1	10	9	77	<0.3	10	5	287	2.75	3	9	9	<0.5	<3	<3	40	0.12	0.045	18	19	1.06	218	0.11	<20	1.8	<0.01	0.17	<2	<0.05	<1	<5		11	<5
1892405	09/09/17	63.52352	-138.631	7046101	617826.8		20-30	C	10-15	Light Brow	0	15	25	30	20	10	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/17/09	1892405	<2	<3	3	<1	7	6	49	<0.3	10	5	316	2.66	5	9	6	<0.5	<3	<3	36	0.07	0.018	23	22	1.63	440	0.19	<20	2.42	<0.01	0.46	<2	<0.05	<1	<5		9	<5
1892406	09/09/17	63.52317	-138.631	7046062	617798.4		20-30	C	5-10	Light Brow	0	10	25	30	20	15	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/17/09	1892406	2	<3	<2	2	12	10	63	<0.3	15	7	273	2.86	10	6	12	<0.5	<3	<3	47	0.11	0.034	13	24	0.79	370	0.085	<20	1.93	<0.01	0.25	<2	<0.05	<1	<5		6	<5
1892407	09/09/17	63.52279	-138.632	7046018	617771.7		20-30	C	5-10	Light Brow	0	5	25	35	30	5	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/17/09	1892407	5	<3	<2	1	14	12	53	<0.3	17	8	252	3.18	11	5	13	<0.5	<3	<3	50	0.16	0.035	14	25	0.86	456	0.102	<20	1.91	<0.01	0.3	<2	0.09	<1	<5		7	<5
1892408	09/09/17	63.52242	-138.633	7045976	617749.3		20-30	C	5-10	Light Brow	0	5	10	30	45	10	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/17/09	1892408	4	<3	<2	<1	6	29	54	<0.3	7	4	228	2.43	5	5	11	<0.5	<3	<3	40	0.13	0.047	17	12	0.77	373	0.113	<20	1.37	<0.01	0.24	<2	0.05	<1	<5		7	<5
1892409	09/09/17	63.52207	-138.633	7045935	617721.8		20-30	C	5-10	Light Brow	0	10	35	40	10	10	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/17/09	1892409	2	<3	<2	1	10	12	62	<0.3	11	5	209	2.76	8	6	8	<0.5	<3	<3	43	0.08	0.027	17	17	0.78	219	0.101	<20	1.65	<0.01	0.14	<2	<0.05	<1	<5		7	<5
1892410	09/09/17	63.5216	-138.634	7045882	617685.8		20-30	C	5-10	Light Brow	0	10	15	30	25	20	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/17/09	1892410	<2	<3	<2	<1	9	11	61	<0.3	16	10	387	3.54	5	5	16	<0.5	<3	<3	56	0.22	0.035	10	29	1.27	712	0.199	<20	2.14	<0.01	0.88	<2	<0.05	<1	<5		8	<5
1892411	09/09/17	63.52131	-138.634	7045849	617668.9		20-30	C	5-10	Light Brow	0	10	15	35	25	15	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/17/09	1892411	2	<3	<2	<1	7	5	36	<0.3	16	13	480	4.42	<2	4	16	<0.5	<3	<3	71	0.26	0.046	7	44	1.78	779	0.377	<20	2.67	<0.01	1.52	<2	<0.05	<1	<5		13	6
1892412	09/09/17	63.52091	-138.635	7045803	617638.4		20-30	C	5-10	Light Brow	0	5	15	35	30	15	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/17/09	1892412	2	<3	<2	<1	7	7	41	<0.3	15	10	710	2.51	3	2	14	<0.5	<3	<3	47	0.2	0.025	12	26	0.79	726	0.121	<20	1.71	<0.01	0.12	<2	<0.05	<1	<5		7	<5
1892413	09/09/17	63.52059	-138.635	7045766	617610.9		20-30	C	5-10	Light Brow	0	5	10	40	30	15	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/17/09	1892413	2	3	2	<1	10	8	49	<0.3	16	8	249	2.53	7	3	15	<0.5	<3	<3	46	0.2	0.018	10	26	0.68	436	0.114	<20	1.39	<0.01	0.27	<2	<0.05	<1	<5		5	<5
1892414	09/09/17	63.52025	-138.636	7045727	617573.2		10-20	C	5-10	Light Brow	0	10	25	30	20	15	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/17/09	1892414	2	<3	<2	2	16	11	65	<0.3	11	11	484	4.15	3	8	14	<0.5	<3	<3	77	0.15	0.023	15	33	1.79	721	0.281	<20	2.31	<0.01	1.33	<2	0.08	<1	<5		8	7
1892415	09/09/17	63.51985	-138.637	7045681	617547.4		10-20	C	5-10	Light Brow	0	20	15	25	25	15	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/17/09	1892415	2	<3	<2	<1	5	4	34	<0.3	9	5	182	2.29	5	5	12	<0.5	<3	3	41	0.13	0.014	9	18	0.52	244	0.079	<20	1.46	<0.01	0.17	<2	<0.05	<1	<5		5	<5
1892416	09/09/17	63.51961	-138.638	7045653	617507.2		10-20	C	5-10	Light Brow	0	10	10	35	30	15	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/17/09	1892416	3	<3	<2	<1	7	6	35	<0.3	5	8	259	2.6	5	6	11	<0.5	<3	<3	51	0.15	0.019	11	14	0.61	394	0.126	<20	1.14	<0.01	0.44	<2	<0.05	<1	<5		6	<5
1892417	09/09/17	63.51928	-138.638	7045615	617478.4		10-20	C	5-10	Light Brow	0	10	15	30	40	5	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/17/09	1892417	3	<3	<2	<1	22	4	47	0.3	16	27	2531	2.95	4	4	18	<0.5	<3	<3	60	0.19	0.027	11	33	0.51	760	0.091	<20	1.51	<0.01	0.2	<2	<0.05	<1	<5		5	<5
1892418	09/09/17	63.51894	-138.639	7045577	617448.4		20-30	C	5-10	Light Brow	0	10	10	35	30	10	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/17/09	1892418	3	<3	<2	<1	13	5	47	<0.3	17	9	277	2.51	9	5	13	<0.5	<3	<3	43	0.14	0.023	15	22	0.62	459	0.082	<20	1.38	<0.01	0.15	<2	<0.05	<1	<5	<5		<5
1892419	09/09/17	63.51862	-138.64	7045540	617412.7		20-30	C	5-10	Light Brow	0	5	10	35	40	10	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/17/09	1892419	2	<3	2	<1	22	5	50	<0.3	15	6	281	2.73	8	6	17	<0.5	<3	<3	42	0.17	0.023	17	21	0.85	412	0.127	<20	1.55	<0.01	0.37	<2	<0.05	<1	<5	<5		<5
1892420	09/09/17	63.51827	-138.64	7045500	617385.2		20-30	C	5-10	Light Brow	0	5	10	30	40	10	Weatherec	Moist	Deciduous	Valley Bott	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/17/09	1892420	2	<3	3	1	16	<3	41	<0.3	16	7	207	2.42	7	6	14	<0.5	<3	<3	40	0.15	0.02	24	23	0.7	373	0.101	<20	1.41	<0.01	0.19	<2	<0.05	<1	<5	<5		<5
1892467	09/09/17	63.5397	-138.633	7047900	617665.5		30-40	C	5-10	Light Brow	0	0	50	30	5	15	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/17/09	1892467	3	<3	2	<1	15	6	51	<0.3	14	7	258	2.17	6	15	13	<0.5	<3	<3	35	0.19	0.041	25	26	0.51	165	0.082	<20	1.32	<0.01	0.18	<2	<0.05	<1	<5	<5		<5
1892468	09/09/17	63.5397	-138.634	7047898	617609.6		40-50	C	10-15	Light Brow	0	5	45	35	5	10	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/17/09	1892468	3	<3	3	<1	27	9	52	<0.3	16	8	229	2.6	7	5	16	<0.5	<3	<3	52	0.23	0.043	25	29	0.51	211	0.059	<20	1.51	0.01	0.06	<2	<0.05	<1	<5	<5		<5
1892469	09/09/17	63.5397	-138.635	7047897	617565.6		50-60	C	10-15	Dark Brow	5	5	30	35	15	15	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/17/09	1892469	4	<3	3	<1	40	9	58	<0.3	17	9	251	2.6	7	5	18	<0.5	<3	<3	53	0.24	0.058	35	27	0.56	208	0.067	<20	1.55	<0.01	0.08	<2	<0.05	<1	<5	<5		<5
1892470	09/09/17	63.53978	-138.636	7047903	617528.8		50-60	C	15-20	Dark Brow	5	5	35	35	10	15	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/17/09	1892470	4	<3	5	<1	34	5	56	<0.3	22	10	443	2.68	7	6	14	<0.5	<3	<3	50	0.27	0.074	28	41	0.66	247	0.127	<20	1.48	<0.01	0.37	<2	<0.05	<1	<5	<5		<5
1892471	09/09/17	63.53978	-138.636	7047903	617509.7	1892470	50-60	C	15-20	Dark Brow	5	5	35	35	10	15	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	FieldDuplic	09/17/09	1892471	3	<3	3	<1	32	7	54	<0.3	21	10	466	2.59	6	6	13	<0.5	<3	<3	48	0.27	0.075	25	38	0.63	238	0.128	<20	1.42	<0.01	0.38	<2	<0.05	<1	<5	<5		<5
1892022	09/10/17	63.52087	-138.69	7045698	614878.6		30-40	C	10-15	Light Brow	0	0	40	40	10	10	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		10/17/09	1892022	6	3	<2	<1	16	10	61	<0.3	15	7	274	2.73	8	13	11	<0.5	<3	<3	46	0.12	0.023	54	24	0.66	275	0.098	<20	1.65	<0.01	0.2	<2	<0.05	<1	<5	<5		5
1892023	09/10/17	63.52119	-138.69	7045736	614904.9		20-30	C	5-10	Light Brow	0	0	40	40	5	15	Weatherec	Dry	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		10/17/09	1892023	3	<3	<2	<1	11	9	72	<0.3	13	9	335	3.66	6	10	10	<0.5	<3	<3	60	0.11	0.028	41	28	1.13	235	0.157	<20	2.38	<0.01	0.56	<2	<0.05	<1	<5		6	6
1892024	09/10/17	63.52159	-138.689	7045780	614931.1		30-40	B/C	10-15	Light Brow	0	0	35	30	5	30	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		10/17/09	1892024	2	<3	<2	2	11	10	67	<0.3	13	6	309	3.58	6	10	13	<0.5	<3	<3	55	0.16	0.051	34	26	0.9	277	0.125	<20	2.13	<0.01	0.39	<2	<0.05	<1	<5		6	6
1892025	09/10/17	63.52192	-138.689	7045818	614965		30-40	C	5-10	Light Brow	0	0	50	30	10	10	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		10/17/09	1892025	3	<3	<2	<1	13	10	63	<0.3	17	7	318	3.43	8	23	11	<0.5	<3	<3	56	0.14	0.039	58	29	0.98	267	0.14	<20	2.32	<0.01	0.38	<2	<0.05	<1	<5	<5		8
1892026	09/10/17	63.52207	-138.688	7045837	615009.9		30-40	C	15-20	Yellowish (	0	0	35	40	20	5	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		10/17/09	1892026	3	<3	<2	<1	16	7	46	<0.3	13	8	321	2.87	5	19	12	<0.5	<3	<3	46	0.16	0.038	126	21	0.86	250	0.105	<20	1.79	<0.01	0.34	<2	<0.05	<1	<5	<5		10
1892027	09/10/17	63.52229	-138.687	7045863	615057.3		30-40	C	10-15	Yellowish (	0	0	35	40	10	15	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		10/17/09	1892027	4	<3	<2	<1	12	10	39	<0.3	12	6	232	2.8	7	7	10	<0.5	<3	<3	58	0.1	0.024	16	28	0.54	265	0.097	<20	1.96	<0.01	0.15	<2	<0.05	<1	<5	<5		<5
1892028	09/10/17	63.5225	-138.686	7045887	615098.2		30-40	C	5-10	Light Brow	5	0	35	40	15	5	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		10/17/09	1892028	4	<3	<2	<1	19	11	51	<0.3	20	10	253	2.77	11	14	10	<0.5	<3	<3	47	0.09	0.022	21	28	0.57	199	0.072	<20	1.98	<0.01	0.1	<2	<0.05	<1	<5	<5		<5
1892029	09/10/17	63.52264	-138.685	7045905	615139.5		30-40	C	5-10		0	0	40	35	5	15	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		10/17/09	1892029	4	<3	<2	1	11	9	63	<0.3	13	8	375	3.23	7	5	14	<0.5	<3	<3	50	0.11	0.035	17	26	1.03	385	0.17	<20	2.34	<0.01	0.4	<2	<0.05	<1	<5	<5		<5
1892030	09/10/17	63.52274	-138.684	7045917	615185.1		20-30	C	5-10	Light Brow	0	0	30	40	20	5	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		10/17/09	1892030	8	<3	<2	<1	20	9	51	<0.3	23	10	254	2.72	11	13	13	<0.5	<3	<3	47	0.13	0.023	67	29	0.57	310	0.074	<20	1.83	<0.01	0.08	<2	<0.05	<1	<5	<5		<5
1892031	09/10/17	63.5229	-138.683	7045936	615236.8		20-30	B/C	10-15	Light Brow	0	0	35	50	15	0	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		10/17/09	1892031	3	<3	<2	1	13	11	51	<0.3	17	9	236	3.33	12	2	8	<0.5	<3	<3	64	0.07	0.032	10	33	0.52	177	0.083	<20	2.23	<0.01	0.1	<2	<0.05	<1	<5	<5		<5
1892032	09/10/17	63.52299	-138.682	7045949	615280.2		20-30	B/C	10-15	Light Brow	0	0	30	40	20	5	Weatherec	Dry	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		10/17/09	1892032	3	<3	<2	<1	15	10	44	<0.3	20	10	240	3.16	11	9	11	<0.5	<3	<3	58	0.1	0.039	13	32	0.55	320	0.072	<20	2.21	<0.01	0.1	<2	<0.05	<1	<5	<5		<5
1892033	09/10/17	63.52315	-138.681	7045969	615332.9		20-30	C	5-10	Yellowish (	0	0	45	40	5	10	Weatherec	Dry	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		10/17/09	1892033	4	<3	<2	1	14	9	48	<0.3	16	7	222	3.13	12	11	10	<0.5	<3	<3	50	0.1	0.028	15	26	0.56	219	0.084	<20	2.36	<0.01	0.1	<2	<0.05	<1	<5	<5		<5
1892034	09/10/17	63.52307	-138.68	7045962	615378.6		20-30	C	10-15	Yellowish (	0	0	35	15	0	45	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		10/17/09	1892034	3	<3	3	<1	7	11	67	<0.3	4	4	395	4.32	5	9	6	<0.5	<3	<3	38	0.05	0.046	10	5	1.26	403	0.148	<20	2.1	<0.01	0.8	<2	<0.05	<1	<5		11	7
1892035	09/10/17	63.52302	-138.679	7045957	615426.9		20-30	C	15-20	Yellowish (	0	0	40	20	0	40	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		10/17/09	1892035	<2	<3	<2	<1	6	7	70	<0.3	6	5	365	3.33	4	7	17	<0.5	<3	<3	40	0.07	0.032	22	12	1.5	504	0.263	<20	2.29	<0.01	0.78	<2	<0.05	<1	<5	<5		5
1892036	09/10/17	63.5229	-138.678	7045946	615480.6		30-40	C	15-20	Yellowish (	0	0	50	30	0	20	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		10/17/09	1892036	2	<3	<2	<1	10	9	69	<0.3	10	6	403	3.25	6	4	8	<0.5	<3	<3	40	0.06	0.011	27	16	1.57	419	0.178	<20	2.58	<0.01	0.73	<2	<0.05	<1	<5		7	6
1892037	09/10/17	63.52286	-138.677	7045943	615529.7		20-30	C	10-15	Yellowish (	0	0	45	30	0	25	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		10/17/09	1892037	3	4	<2	<1	8	10	58	<0.3	7	4	405	3.59	4	8	5	<0.5	<3	<3	37	0.09	0.034	11	15	1.56	468	0.27	<20	2.59	<0.01	0.77	<2	<0.05	<1	<5	<5		6
1892038	09/10/17	63.52277	-138.676	7045935	615579.7		20-30	C	5-10	Light Brow	0	0	40	30	0	30	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		10/17/09	1892038	4	3	4	<1	9	8	62	<0.3	8	4	439	2.9	6	6	9	<0.5	<3	<3	40	0.11	0.06	17	18	1.19	699	0.171	<20	2.04	<0.01	0.66	<2	<0.05	<1	<5	<5		<5
1892039	09/10/17	63.52269	-138.675	7045929	615628.4		30-40	C	10-15	Light Brow	0	0	40	20	0	40	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		10/17/09	1892039	3	<3	<2	<1	16	7	40	<0.3	16	6	209	2.43	8	10	9	<0.5	<3	<3	36	0.09	0.015	22	21	0.66	239	0.107	<20	1.71	<0.01	0.27	<2	<0.05	<1	<5	<5		<5
1892040	09/10/17	63.52253	-138.674	7045912	615675.9		30-40	C	10-15	Light Brow	5	0	50	30	0	15	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		10/17/09	1892040	4	<3	<2	<1	11	7	48	<0.3	14	6	241	2.54	7	3	13	<0.5	<3	<3	39	0.14	0.035	15	21	0.92	302	0.122	<20	1.83	<0.01	0.26	<2	<0.05	<1	<5	<5		<5
1892041	09/10/17	63.52249	-138.673	7045910	615729.4		30-40	C	10-15	Light Brow	0	0	35	30	10	25	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		10/17/09	1892041	3	<3	<2	1	14	10	52	<0.3	16	7	242	3.32	11	4	12	<0.5	<3	<3	58	0.12	0.048	14	28	0.77	380	0.101	<20	2.24	<0.01	0.13	<2	<0.05	<1	<5	<5		<5
1892042	09/10/17	63.5225	-138.673	7045911	615727.5	1892041	30-40	C	10-15	Light Brow	0	0	35	30	10	20	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	FieldDuplic	10/17/09	1892042	11	<3	<2	1	14	11	51	<0.3	17	7	234	3.42	12	4	11	<0.5	<3	<3	59	0.12	0.047	14	29	0.73	369	0.096	<20	2.28	<0.01	0.11	<2	<0.05	<1	<5	<5		<5
1892043	09/10/17	63.52238	-138.672	7045899	615777		20-30	C	10-15	Light Brow	0	0	35	30	10	25	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		10/17/09	1892043	<2	<3	<2	<1	13	6	71	<0.3	10	5	393	3.13	3	10	7	<0.5	<3	<3	41	0.1	0.024	27	20	1.73	829	0.229	<20	2.39	<0.01	0.94	<2	<0.05	<1	<5	<5		7
1892044	09/10/17	63.5224	-138.671	7045903	615823.1		20-30	C	5-10	Light Brow	0	0	40	45	10	5	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		10/17/09	1892044	6	<3	<2	<1	13	10	49	<0.3	13	7	286	2.52	5	7	10	<0.5	<3	<3	48	0.12	0.028	22	25	0.8	282	0.129	<20	1.75	<0.01	0.37	<2	<0.05	<1	<5	<5		<5
1892045	09/10/17	63.52215	-138.67	7045877	615873.5		30-40	C	10-15	Light Brow	0	0	40	35	0	25	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		10/17/09	1892045	3	<3	<2	<1	15	8	59	<0.3	13	8	389	2.81	4	11	12	<0.5	<3	<3	44	0.14	0.024	71	25	0.98	360	0.166	<20	1.72	<0.01	0.53	<2	<0.05	<1	<5	<5		5
1892046	09/10/17	63.52211	-138.669	7045875	615922.1		30-40	C	10-15	Light Brow	0	0	40	45	10	5	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		10/17/09	1892046	4	<3	<2	1	16	10	53	<0.3	16	8	309	3.25	10	8	13	<0.5	<3	<3	57	0.13	0.026	18	31	0.63	300	0.106	<20	2.1	<0.01	0.14	<2	<0.05	<1	<5	<5		<5
1892047	09/10/17	63.52208	-138.668	7045873	615975.1		30-40	C	15-20	Light Brow	0	0	40	40	0	20	Weatherec	Dry	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		10/17/09	1892047	3	4	3	<1	11	7	42	<0.3	12	6	206	2.81	7	5	12	<0.5	<3	<3	46	0.13	0.035	11	23	0.63	289	0.128	<20	1.56	<0.01	0.37	<2	<0.05	<1	<5	<5		<5
1892048	09/10/17	63.522	-138.667	7045866	616028		30-40	C	10-15	Light Brow	0	0	40	45	15	0	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		10/17/09	1892048	8	<3	<2	<1	15	7	45	<0.3	15	7	227	2.67	7	6	19	<0.5	<3	<3	42	0.23	0.03	27	24	0.64	405	0.102	<20	1.61	<0.01	0.18	<2	<0.05	<1	<5	<5		<5
1892049	09/10/17	63.52202	-138.666	7045869	616066.5		30-40	C	15-20	Light Brow	0	0	30	50	15	5	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		10/17/09	1892049	4	<3	<2	<1	11	8	36	<0.3	11	5	178	2.16	6	8	14	<0.5	<3	<3	41	0.15	0.018	33	21	0.45	338	0.074	<20	1.23	<0.01	0.09	<2	<0.05	<1	<5	<5		<5
1892050	09/10/17	63.52198	-138.665	7045867	616117.8		30-40	B/C	10-15	Light Brow	5	0	30	30	0	35	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		10/17/09	1892050	3	5	3	1	8	8	31	<0.3	9	7	344	1.82	6	5	16	<0.5	<3	<3	39	0.18	0.039	21	18	0.38	381	0.082	<20	1	<0.01	0.19	<2	<0.05	<1	<5	<5		<5
1892109	09/10/17	63.51562	-138.709	7045080	613983.7		30-40	C	20-25	Light Brow	0	0	60	15	15	10	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		10/17/09	1892109	<2	<3	3	<1	13	10	40	<0.3	11	5	301	2.75	8	7	8	<0.5	<3	<3	48	0.08	0.022	15	23	0.51	154	0.1	<20	1.59	<0.01	0.16	<2	<0.05	<1	<5	<5		<5
1892110	09/10/17	63.51567	-138.708	7045088	614028.2		40-50	B/C	30up	Light Grey	5	0	65	10	5	15	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		10/17/09	1892110	<2	<3	<2	<1	12	7	31	<0.3	7	3	227	2.02	3	4	8	<0.5	<3	<3	35	0.08	0.067	12	18	0.57	265	0.136	<20	1.26	<0.01	0.37	<2	<0.05	<1	<5		6	<5
1892111	09/10/17	63.51567	-138.708	7045088	614028.2	1892110	40-50	B/C	30up	Light Grey	5	0	65	10	5	15	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N	FieldDuplic	10/17/09	1892111	<2	<3	2	<1	14	7	31	<0.3	7	2	224	2.03	2	2	8	<0.5	<3	<3	34	0.08	0.073	12	20	0.56	263	0.131	<20	1.27	<0.01	0.36	<2	<0.05	<1	<5	<5		<5
1892112	09/10/17	63.5157	-138.707	7045093	614080.6		40-50	C	30up	Light Brow	0	0	40	30	20	10	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		10/17/09	1892112	3	<3	4	<1	19	9	48	<0.3	19	8	297	2.75	8	8	14	<0.5	<3	<3	46	0.16	0.041	23	27	0.63	232	0.09	<20	1.82	<0.01	0.11	<2	<0.05	<1	<5	<5		5
1892113	09/10/17	63.51571	-138.706	7045095	614128.9		40-50	C	30up	Light Brow	0	0	65	15	5	15	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		10/17/09	1892113	2	<3	<2	<1	10	7	50	<0.3	15	7	378	2.88	6	7	9	<0.5	<3	<3	46	0.12	0.032	20	23	0.88	320	0.157	<20	1.88	<0.01	0.37	<2	<0.05	<1	<5	<5		<5
1892114	09/10/17	63.51575	-138.705	7045102	614180.1		20-30	C	15-20	Yellowish (	0	0	65	15	5	15	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		10/17/09	1892114	<2	<3	<2	<1	4	3	51	<0.3	12	5	511	3.72	5	11	7	<0.5	<3	<3	47	0.12	0.019	16	29	1.13	551	0.165	<20	2.67	<0.01	0.48	<2	<0.05	<1	<5		9	8
1892115	09/10/17	63.51575	-138.704	7045104	614227.5		20-30	B/C	15-20	Light Brow	5	0	40	30	15	10	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		10/17/09	1892115	3	<3	3	1	10	11	50	<0.3	14	7	273	2.99	10	5	10	<0.5	<3	<3	66	0.1	0.028	13	29	0.47	233	0.083	<20	1.91	<0.01	0.06	<2	<0.05	<1	<5		5	<5
1892116	09/10/17	63.5158	-138.703	7045112	614280.5		30-40	B/C	30up	Light Brow	5	0	45	20	20	10	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		10/17/09	1892116	4	<3	3	2	12	13	42	<0.3	13	5	236	3.25	10	8	12	<0.5	<3	<3	65	0.11	0.036	18	26	0.51	338	0.094	<20	1.85	<0.01	0.13	<2	<0.05	<1	<5		6	<5
1892117	09/10/17	63.51585	-138.702	7045118	614334.6		20-30	B/C	15-20	Light Brow	0	0	40	15	10	30	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		10/17/09	1892117	3	<3	<2	<1	7	5	48	<0.3	8	5	560	2.62	4	7	6	<0.5	<3	<3	39	0.1	0.05	19	17	0.81	255	0.149	<20	1.45	<0.01	0.41	<2	<0.05	<1	<5		5	<5
1892118	09/10/17	63.51587	-138.701	7045122	614379.5		20-30	C	10-15	Light Brow	0	0	65	15	5	15	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		10/17/09	1892118	6	<3	3	<1	14	7	62	<0.3	18	7	401	3.11	6	5	10	<0.5	<3	<3	47	0.12	0.034	25	24	1.01	356	0.17	<20	2.22	<0.01	0.4	<2	<0.05	<1	<5		6	6
1892119	09/10/17	63.51588	-138.7	7045125	614426.7		30-40	C	20-25	Light Brow	5	0	65	25	0	5	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		10/17/09	1892119	<2	<3	<2	<1	7	4	44	<0.3	11	6	594	2.71	2	7	8	<0.5	<3	<3	35	0.16	0.045	28	21	0.98	297	0.159	<20	1.78	<0.01	0.52	<2	<0.05	<1	<5	<5		5
1892120	09/10/17	63.51592	-138.699	7045132	614482		40-50	C	25-30	Yellowish (	0	0	70	10	5	15	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		10/17/09	1892120	<2	<3	6	<1	5	3	34	<0.3	5	2	460	2.53	<2	12	6	<0.5	<3	<3	18	0.07	0.01	13	9	0.91	188	0.081	<20	1.83	<0.01	0.58	<2	<0.05	<1	<5		6	<5
1892121	09/10/17	63.51595	-138.698	7045137	614524.7		20-30	B/C	15-20	Light Brow	0	0	40	30	15	15	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		10/17/09	1892121	5	<3	<2	<1	30	10	79	<0.3	11	6	350	3.28	10	4	9	<0.5	<3	<3	56	0.07	0.04	11	27	0.68	294	0.084	<20	2.16	<0.01	0.29	<2	<0.05	<1	<5		7	<5
1892122	09/10/17	63.51588	-138.697	7045131	614581.9		20-30	C	10-15	Light Brow	0	0	50	25	10	15	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		10/17/09	1892122	3	<3	<2	<1	7	10	127	<0.3	10	7	502	4.05	9	4	8	<0.5	<3	<3	79	0.1	0.061	13	27	0.69	430	0.137	<20	1.99	<0.01	0.29	<2	<0.05	<1	<5		7	5
1892123	09/10/17	63.51582	-138.696	7045126	614625.9		20-30	C	15-20	Light Brow	0	0	65	15	15	5	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		10/17/09	1892123	<2	<3	2	1	8	6	71	<0.3	9	4	241	2.54	6	10	4	<0.5	<3	<3	27	0.04	0.02	10	14	0.68	198	0.081	<20	1.7	<0.01	0.2	<2	<0.05	<1	<5		6	<5
1892124	09/10/17	63.51571	-138.695	7045115	614677.6		20-30	C	15-20	Light Brow	0	0	60	20	0	20	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		10/17/09	1892124	2	<3	<2	2	9	8	90	<0.3	10	5	395	3.1	7	12	5	<0.5	<3	<3	46	0.04	0.022	16	15	0.9	266	0.146	<20	1.92	<0.01	0.39	<2	<0.05	<1	<5	<5		<5
1892125	09/10/17	63.51569	-138.694	7045115	614726.7		20-30	B/C	15-20	Dark Grey	5	0	45	30	15	5	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		10/17/09	1892125	5	<3	2	<1	10	11	36	<0.3	12	5	152	2.53	9	4	10	<0.5	<3	<3	51	0.11	0.046	15	22	0.38	228	0.065	<20	1.41	<0.01	0.06	<2	<0.05	<1	<5	<5		<5
1892126	09/10/17	63.51586	-138.693	7045136	614770.7		30-40	B/C	10-15	Light Brow	0	0	60	15	10	15	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		10/17/09	1892126	7	<3	2	1	12	11	54	0.5	11	7	335	3.17	6	6	9	<0.5	<3	<3	51	0.13	0.046	17	21	0.76	242	0.115	<20	1.8	<0.01	0.34	<2	<0.05	<1	<5		6	<5
1892127	09/10/17	63.51611	-138.692	7045165	614810.1		40-50	C	20-25	Light Grey	0	0	60	10	5	25	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		10/17/09	1892127	5	<3	<2	<1	7	8	26	<0.3	7	3	128	1.98	6	5	10	<0.5	<3	<3	44	0.1	0.035	15	16	0.28	173	0.083	<20	1.07	<0.01	0.06	<2	<0.05	<1	<5		5	<5
1892128	09/10/17	63.51646	-138.692	7045199	614837.6		50-60	C	30up	Light Brow	0	0	40	40	10	10	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		10/17/09	1892128	3	<3	2	<1	13	9	47	<0.3	12	5	222	2.76	8	8	14	<0.5	<3	<3	60	0.14	0.025	26	29	0.64	192	0.119	<20	1.7	<0.01	0.11	<2	<0.05	<1	<5		6	5
1892129	09/10/17	63.51686	-138.692	7045249	614834.2		40-50	C	30up	Light Brow	0	0	40	30	15	15	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		10/17/09	1892129	3	<3	2	<1	13	10	47	<0.3	14	6	206	2.92	9	5	11	<0.5	<3	<3	52	0.11	0.03	15	26	0.53	190	0.085	<20	1.82	<0.01	0.08	<2	<0.05	<1	<5	<5		<5
1892130	09/10/17	63.51728	-138.692	7045296	614836.7		70-80	C	30up	Light Brow	0	0	60	25	5	10	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		10/17/09	1892130	3	<3	2	<1	12	8	58	<0.3	13	8	372	3.2	6	9	15	<0.5	<3	<3	57	0.21	0.063	34	25	0.97	380	0.161	<20	2.04	<0.01	0.63	<2	<0.05	<1	<5		6	6
1892131	09/10/17	63.51728	-138.692	7045296	614836.7	1892130	70-80	C	30up	Light Brow	0	0	60	25	5	10	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N	FieldDuplic	10/17/09	1892131	3	<3	<2	<1	11	8	59	<0.3	12	8	412	3.25	5	8	14	<0.5	<3	<3	56	0.22	0.069	37	24	1.07	402	0.174	<20	2.08	<0.01	0.75	<2	<0.05	<1	<5	<5		6
1892132	09/10/17	63.51778	-138.692	7045351	614829.5		30-40	C	20-25	Light Brow	0	0	65	20	5	15	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		10/17/09	1892132	3	<3	2	1	12	9	67	<0.3	12	5	305	2.81	6	10	11	<0.5	<3	<3	42	0.13	0.035	51	21	0.79	330	0.127	<20	1.8	<0.01	0.36	<2	<0.05	<1	<5	<5		<5
1892133	09/10/17	63.51821	-138.692	7045399	614825.8		30-40	C	15-20	Light Brow	0	0	50	30	5	15	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		10/17/09	1892133	2	<3	<2	<1	10	10	54	<0.3	9	5	305	2.5	5	7	9	<0.5	<3	<3	44	0.12	0.05	33	21	0.65	287	0.126	<20	1.54	<0.01	0.31	<2	<0.05	<1	<5		6	<5
1892134	09/10/17	63.51862	-138.691	7045445	614834		20-30	C	15-20	Light Brow	0	0	30	40	20	10	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		10/17/09	1892134	4	<3	<2	<1	18	11	63	<0.3	16	8	329	3.13	10	12	12	<0.5	<3	<3	56	0.11	0.023	25	27	0.64	269	0.109	<20	2.02	<0.01	0.1	<2	<0.05	<1	<5	<5		<5
1892135	09/10/17	63.51911	-138.691	7045500	614839.8		20-30	C	15-20	Light Brow	0	0	40	40	10	10	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		10/17/09	1892135	4	<3	<2	2	16	12	65	<0.3	15	7	281	3.2	9	9	13	<0.5	<3	<3	56	0.16	0.027	29	26	0.67	292	0.111	<20	1.94	<0.01	0.1	<2	<0.05	<1	<5	<5		<5
1892136	09/10/17	63.51999	-138.691	7045598	614852.2		30-40	C	20-25	Light Brow	0	0	40	30	5	25	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		10/17/09	1892136	4	<3	<2	2	14	14	75	<0.3	13	5	301	3.15	7	9	11	<0.5	<3	<3	55	0.11	0.036	31	21	0.95	287	0.143	<20	1.97	<0.01	0.25	<2	<0.05	<1	<5		6	<5
1892137	09/10/17	63.52041	-138.691	7045646	614851.2		30-40	C	15-20	Light Brow	0	0	40	35	10	15	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		10/17/09	1892137	3	<3	<2	1	15	12	80	<0.3	15	6	273	3.16	8	7	12	<0.5	<3	<3	54	0.12	0.031	40	23	0.73	314	0.113	<20	1.91	<0.01	0.18	<2	<0.05	<1	<5	<5		<5
1892085	09/14/17	63.52496	-138.718	7046104	613497.3		20-30	C	5-10	Light Brow	0	0	45	40	5	10	Weatherec	Dry	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/14/17	1892085	3	<3	<2	<1	57	8	104	<0.3	11	10	587	3.5	<2	3	15	<0.5	<3	<3	75	0.32	0.064	21	24	1.85	668	0.15	<20	2.88	<0.01	0.91	<2	<0.05	<1	<5		6	12
1892086	09/14/17	63.52543	-138.718	7046157	613490.9		20-30	C	15-20	Yellowish (	0	0	60	20	0	20	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/14/17	1892086	<2	<3	<2	1	50	8	109	<0.3	27	21	869	5.05	<2	<2	13	<0.5	<3	<3	95	0.29	0.128	5	71	2.1	534	0.205	<20	3.7	<0.01	1.15	<2	<0.05	<1	<5		6	10
1892087	09/14/17	63.52576	-138.718	7046192	613467.7		40-50	C	20-25	Yellowish (	0	0	60	25	0	15	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/14/17	1892087	<2	<3	<2	<1	13	<3	59	<0.3	7	7	901	3.61	9	<2	16	<0.5	<3	<3	50	0.79	0.228	5	11	1.22	249	0.113	<20	1.96	<0.01	0.42	<2	<0.05	<1	<5	<5		8
1892088	09/14/17	63.52618	-138.719	7046239	613450.7		30-40	C	20-25	Yellowish (	0	0	40	35	0	25	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/14/17	1892088	4	<3	<2	1	24	9	55	<0.3	16	10	378	3.04	9	3	9	<0.5	<3	<3	52	0.1	0.029	11	25	0.48	193	0.074	<20	1.66	<0.01	0.12	<2	<0.05	<1	<5	<5		6
1892089	09/14/17	63.52666	-138.719	7046292	613433.8		20-30	C	10-15	Light Brow	0	0	40	30	20	10	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/14/17	1892089	2	<3	<2	<1	19	9	40	<0.3	15	7	271	2.81	7	<2	11	<0.5	<3	<3	54	0.11	0.024	11	31	0.49	201	0.072	<20	1.64	<0.01	0.12	<2	<0.05	<1	<5	<5		5
1892090	09/14/17	63.52709	-138.72	7046339	613405.4		20-30	C	15-20	Yellowish (	0	0	50	30	0	20	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/14/17	1892090	4	<3	<2	<1	21	4	47	<0.3	11	16	549	4.13	3	3	14	<0.5	<3	<3	115	0.23	0.045	15	12	1.38	520	0.223	<20	2.35	<0.01	0.69	<2	<0.05	<1	<5	<5		9
1892091	09/14/17	63.52743	-138.72	7046376	613388.1		20-30	C	10-15	Light Brow	0	0	30	40	10	20	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/14/17	1892091	5	<3	<2	<1	20	7	61	<0.3	18	12	703	3.08	5	<2	12	<0.5	<3	<3	50	0.2	0.049	10	39	0.7	346	0.069	<20	1.68	<0.01	0.21	<2	<0.05	<1	<5	<5		6
1892092	09/14/17	63.52787	-138.72	7046425	613364.4		20-30	C	10-15	Yellowish (	0	0	40	40	0	20	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/14/17	1892092	5	<3	<2	<1	29	8	50	<0.3	17	8	428	2.61	8	3	12	<0.5	<3	<3	47	0.14	0.036	10	24	0.55	251	0.062	<20	1.63	<0.01	0.09	<2	<0.05	<1	<5	<5		<5
1892093	09/14/17	63.52837	-138.721	7046479	613345.7		30-40	C	15-20	Light Brow	0	0	35	30	0	35	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/14/17	1892093	5	<3	2	<1	42	10	77	<0.3	14	9	344	3.23	7	2	12	<0.5	<3	<3	64	0.18	0.032	8	27	0.87	243	0.079	<20	1.98	<0.01	0.14	<2	<0.05	<1	<5	<5		<5
1892094	09/14/17	63.52876	-138.721	7046523	613341.5		40-50	C	25-30	Light Brow	0	0	40	35	0	25	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/14/17	1892094	<2	<3	3	<1	48	6	75	<0.3	19	14	500	3.52	3	<2	6	<0.5	<3	<3	83	0.18	0.034	4	36	1.2	233	0.199	<20	2.23	<0.01	0.41	<2	<0.05	<1	<5	<5		<5
1892095	09/14/17	63.52869	-138.721	7046515	613334.7	1892094	40-50	C	25-30	Yellowish (	0	0	40	30	0	30	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	FieldDuplic	09/14/17	1892095	3	3	2	<1	46	7	71	<0.3	16	12	442	3.57	5	<2	7	<0.5	<3	<3	87	0.16	0.03	5	29	1.12	219	0.194	<20	2.25	<0.01	0.29	<2	<0.05	<1	<5	<5		<5
1892096	09/14/17	63.52927	-138.721	7046579	613322.4		30-40	C	20-25	Yellowish (	0	0	45	40	0	15	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/14/17	1892096	4	<3	<2	<1	38	6	61	<0.3	14	12	498	3.34	3	<2	8	<0.5	<3	<3	87	0.16	0.028	11	38	1.13	229	0.176	<20	2.22	<0.01	0.31	<2	<0.05	<1	<5	<5		6
1892097	09/14/17	63.52967	-138.721	7046623	613318.2		20-30	C	10-15	Light Brow	0	0	40	40	0	20	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/14/17	1892097	<2	<3	2	<1	31	5	69	<0.3	16	14	853	3.75	5	<2	17	<0.5	<3	<3	114	0.29	0.044	3	36	1.02	395	0.176	<20	2.13	<0.01	0.5	<2	<0.05	<1	<5	<5		7
1892098	09/14/17	63.53009	-138.721	7046669	613300.9		20-30	C	10-15	Light Brow	0	0	40	40	0	20	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/14/17	1892098	2	<3	<2	<1	13	5	103	<0.3	6	11	718	4.24	4	<2	6	<0.5	<3	<3	86	0.22	0.093	5	8	1.49	487	0.233	<20	2.74	<0.01	0.94	<2	<0.05	<1	<5	<5		13
1892099	09/14/17	63.53056	-138.722	7046722	613293.2		20-30	C	10-15	Light Brow	0	0	40	30	0	30	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/14/17	1892099	<2	<3	<2	<1	29	3	88	<0.3	6	14	508	3.97	<2	3	11	<0.5	<3	<3	77	0.42	0.148	19	7	1.51	715	0.139	<20	2.17	0.01	0.74	<2	<0.05	<1	<5	<5		15
1892100	09/14/17	63.53102	-138.722	7046773	613288.6		20-30	C	5-10	Yellowish (	0	0	30	30	0	40	Weatherec	Moist	Deciduous	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/14/17	1892100	<2	<3	3	<1	18	8	72	<0.3	15	9	524	3.13	4	2	8	<0.5	<3	<3	53	0.1	0.019	7	40	0.98	224	0.17	<20	2.42	<0.01	0.41	<2	<0.05	<1	<5		6	<5
1892166	09/14/17	63.51593	-138.715	7045104	613670		30-40	C	25-30	Light Brow	0	0	60	10	20	10	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		09/14/17	1892166	<2	<3	2	6	92	5	45	<0.3	7	5	430	4.9	2	10	9	<0.5	<3	<3	57	0.05	0.068	35	10	1.1	591	0.263	<20	2.35	<0.01	1.21	<2	0.26	<1	<5		7	7
1892167	09/14/17	63.51616	-138.716	7045138	613639.1		30-40	C	10-15	Light Brow	0	0	40	30	20	10	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		09/14/17	1892167	4	<3	<2	1	48	6	39	<0.3	9	4	215	2.7	6	6	8	<0.5	<3	<3	36	0.07	0.028	19	19	0.55	171	0.103	<20	1.38	<0.01	0.21	<2	<0.05	<1	<5	<5		<5
1892168	09/14/17	63.51667	-138.716	7045184	613609		20-30	B/C	5-10	Light Brow	0	0	45	35	20	0	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		09/14/17	1892168	3	<3	<2	2	39	10	40	<0.3	11	4	182	2.64	7	<2	9	<0.5	<3	<3	45	0.07	0.085	16	21	0.44	226	0.097	<20	1.63	<0.01	0.15	<2	<0.05	<1	<5	<5		<5
1892169	09/14/17	63.51704	-138.717	7045224	613584.9		30-40	C	10-15	Light Brow	0	0	50	25	10	15	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		09/14/17	1892169	4	<3	<2	<1	31	7	52	<0.3	15	6	226	2.52	6	2	15	<0.5	<3	<3	42	0.17	0.045	21	22	0.55	344	0.081	<20	1.43	<0.01	0.09	<2	<0.05	<1	<5	<5		<5
1892170	09/14/17	63.51739	-138.717	7045263	613557.4		40-50	C	25-30	Light Brow	0	0	60	20	10	10	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		09/14/17	1892170	3	<3	3	<1	70	7	128	<0.3	18	7	262	3	4	<2	11	<0.5	<3	<3	75	0.17	0.034	9	30	1	572	0.132	<20	1.86	0.01	0.28	<2	<0.05	<1	<5		5	5
1892171	09/14/17	63.51739	-138.717	7045263	613557.4	1892170	40-50	C	25-30	Light Brow	0	0	60	20	10	10	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N	FieldDuplic	09/14/17	1892171	3	<3	<2	<1	70	6	132	<0.3	18	7	262	3.09	4	<2	10	<0.5	<3	<3	76	0.16	0.034	9	30	1.03	575	0.135	<20	1.92	0.01	0.28	<2	<0.05	<1	<5		5	5
1892172	09/14/17	63.51782	-138.718	7045309	613527.3		20-30	C	10-15	Light Brow	0	0	40	30	10	20	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		09/14/17	1892172	3	<3	<2	<1	33	7	78	<0.3	22	7	279	2.74	5	<2	8	<0.5	<3	<3	56	0.1	0.029	8	44	0.75	198	0.093	<20	1.56	<0.01	0.1	<2	<0.05	<1	<5	<5		<5
1892173	09/14/17	63.5183	-138.718	7045363	613520.6		30-40	C	20-25	Light Brow	0	0	40	40	10	10	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		09/14/17	1892173	3	<3	4	1	82	6	138	<0.3	25	10	352	3.5	3	<2	15	<0.5	<3	<3	77	0.19	0.036	13	48	1.1	765	0.101	<20	1.78	<0.01	0.33	<2	<0.05	<1	<5	<5		8
1892174	09/14/17	63.51871	-138.718	7045408	613514.2		40-50	C	30up	Light Brow	0	0	40	40	10	10	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		09/14/17	1892174	4	<3	3	5	244	6	239	<0.3	17	11	678	8.1	5	<2	12	1	<3	<3	107	0.19	0.089	11	19	1.34	1950	0.171	<20	1.96	<0.01	1.01	<2	<0.05	<1	<5		6	20
1892175	09/14/17	63.51918	-138.718	7045460	613502.8		30-40	C	30up	Light Brow	0	0	60	15	10	15	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		09/14/17	1892175	5	<3	2	1	42	8	84	<0.3	16	8	293	3.3	5	<2	11	<0.5	<3	<3	64	0.14	0.057	11	37	0.72	350	0.077	<20	1.48	<0.01	0.11	<2	<0.05	<1	<5	<5		7
1892176	09/14/17	63.51963	-138.718	7045509	613494.7		30-40	C	15-20	Light Brow	0	0	50	30	10	10	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		09/14/17	1892176	5	<3	2	1	32	7	64	<0.3	16	7	267	2.53	4	<2	8	<0.5	<3	<3	60	0.11	0.04	7	40	0.76	311	0.11	<20	1.4	<0.01	0.19	<2	<0.05	<1	<5	<5		<5
1892177	09/14/17	63.52006	-138.718	7045559	613498.6		20-30	C	10-15	Light Brow	0	0	40	40	10	10	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		09/14/17	1892177	4	<3	2	1	57	8	64	<0.3	25	7	219	2.72	5	<2	11	<0.5	<3	<3	61	0.12	0.048	7	62	0.84	413	0.095	<20	1.52	0.01	0.22	<2	0.09	<1	<5	<5		<5
1892178	09/14/17	63.52047	-138.718	7045604	613504.2		20-30	C	20-25	Light Brow	0	0	50	30	10	10	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		09/14/17	1892178	3	<3	3	1	45	11	86	<0.3	17	11	325	2.9	5	2	11	<0.5	<3	<3	67	0.14	0.04	11	29	0.88	363	0.1	<20	1.79	<0.01	0.19	<2	<0.05	<1	<5	<5		6
1892179	09/14/17	63.52095	-138.718	7045658	613507.4		30-40	C	15-20	Light Brow	0	0	40	30	20	10	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		09/14/17	1892179	3	<3	<2	<1	50	8	68	<0.3	16	7	295	3.07	4	<2	10	<0.5	<3	<3	82	0.1	0.05	9	27	1.04	525	0.125	<20	1.97	0.01	0.33	<2	0.07	<1	<5	<5		5
1892180	09/14/17	63.52137	-138.718	7045705	613515.5		30-40	C	20-25	Light Brow	0	0	40	35	10	15	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		09/14/17	1892180	2	<3	2	<1	62	6	91	<0.3	78	22	571	3.89	<2	2	12	<0.5	<3	<3	91	0.21	0.031	16	202	1.31	451	0.12	<20	2.15	<0.01	0.36	<2	<0.05	<1	<5	<5		11
1892181	09/14/17	63.52184	-138.718	7045757	613521.3		20-30	C	10-15	Light Brow	0	0	40	40	10	10	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		09/14/17	1892181	2	<3	3	1	109	7	85	<0.3	46	16	596	3.37	3	<2	11	<0.5	<3	<3	43	0.14	0.041	8	59	0.78	300	0.074	<20	1.41	0.02	0.25	<2	0.08	<1	<5	<5		7
1892182	09/14/17	63.52228	-138.718	7045806	613524.8		30-40	C	30up	Light Brow	0	0	50	35	10	5	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		09/14/17	1892182	4	<3	<2	<1	17	8	50	<0.3	17	5	226	2.62	7	<2	15	<0.5	<3	<3	59	0.14	0.031	12	55	0.82	298	0.08	<20	1.61	<0.01	0.11	<2	<0.05	<1	<5	<5		6
1892183	09/14/17	63.52274	-138.718	7045858	613520.8		20-30	C	15-20	Light Brow	0	0	40	40	0	20	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		09/14/17	1892183	4	<3	<2	1	58	7	45	<0.3	20	12	455	3.47	9	<2	9	<0.5	<3	<3	50	0.1	0.027	9	25	0.78	197	0.095	<20	2.27	<0.01	0.26	<2	<0.05	<1	<5		5	6
1892184	09/14/17	63.52315	-138.718	7045904	613519.7		20-30	C	10-15	Light Brow	0	0	35	40	10	15	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		09/14/17	1892184	5	<3	<2	<1	49	6	52	<0.3	12	10	423	3.5	5	<2	9	<0.5	<3	<3	82	0.13	0.029	17	17	0.9	395	0.149	<20	2.04	<0.01	0.37	<2	<0.05	<1	<5	<5		6
1892185	09/14/17	63.5236	-138.718	7045953	613512.1		20-30	C	10-15	Light Brow	0	0	40	40	10	10	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		09/14/17	1892185	3	<3	<2	<1	29	7	44	<0.3	13	11	364	3.3	7	<2	7	<0.5	<3	<3	80	0.12	0.028	7	20	0.68	177	0.128	<20	2.12	<0.01	0.23	<2	<0.05	<1	<5	<5		6
1892186	09/14/17	63.52407	-138.718	7046005	613506.6		20-30	C	10-15	Light Brow	0	0	30	45	20	5	Weatherec	Moist	Buck Brush	Ridge Top	Nigel Bock	Soil	EUK-17029	SHEBA	7N		09/14/17	1892186	4	<3	<2	<1	14	11	44	<0.3	12	6	258	3.22	9	<2	8	<0.5	<3	<3	71	0.07	0.031	11	29	0.53	181	0.101	<20	2.02	<0.01	0.2	<2	<0.05	<1	<5	<5		6

1892187	09/14/17	63.52452	-138.718	7046055	613498		30-40	C	20-25	Light Brow	0	0	50	20	15	15	Weatherec	Dry	Evergreen	Ridge Top	Nigel Bocki	Soil	EUK-17029	SHEBA	7N		09/14/17	1892187	4	<3	<2	<1	16	5	44	<0.3	10	9	539	3.61	4	<2	11	<0.5	<3	<3	82	0.23	0.075	13	11	1.03	270	0.15	<20	2.28	<0.01	0.45	<2	<0.05	<1	<5	6	11
1892476	09/14/17	63.53137	-138.721	7046813	613298.3		20-30	C	10-15	Yellowish (	0	0	35	40	10	15	Weatherec	Dry	Evergreen	Ridge Top	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/14/17	1892476	4	<3	4	<1	31	11	66	<0.3	40	14	455	3.43	7	4	13	<0.5	<3	<3	64	0.18	0.016	22	83	1.05	310	0.114	<20	2.2	<0.01	0.21	<2	<0.05	<1	<5	<5	8
1892477	09/14/17	63.53169	-138.721	7046849	613335.1		30-40	C	10-15	Light Brow	0	0	40	45	5	10	Weatherec	Dry	Evergreen	Ridge Top	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/14/17	1892477	2	<3	3	1	26	5	84	<0.3	8	10	1238	3.91	<2	2	12	<0.5	<3	<3	28	0.28	0.033	19	6	0.82	238	0.087	<20	1.84	<0.01	0.44	<2	<0.05	<1	<5	<5	14
1892478	09/14/17	63.53204	-138.72	7046890	613363.9		20-30	C	5-10	Yellowish (	0	0	45	40	0	15	Weatherec	Dry	Evergreen	Ridge Top	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/14/17	1892478	<2	<3	<2	<1	23	<3	91	<0.3	21	15	695	3.6	4	<2	8	<0.5	<3	<3	45	0.15	0.022	6	15	1.54	290	0.225	<20	2.87	<0.01	0.59	<2	<0.05	<1	<5	<5	<5
1892479	09/14/17	63.53241	-138.719	7046932	613392.3		20-30	C	5-10	Light Brow	0	0	40	30	0	30	Weatherec	Dry	Evergreen	Ridge Top	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/14/17	1892479	<2	<3	2	<1	21	6	79	<0.3	15	10	661	4.17	7	2	11	<0.5	<3	<3	51	0.17	0.035	8	25	1.08	294	0.189	<20	2.72	<0.01	0.39	<2	<0.05	<1	<5	7	7
1892480	09/14/17	63.53268	-138.719	7046963	613425.3		10-20	B/C	5-10	Light Brow	5	0	35	40	10	10	Weatherec	Dry	Evergreen	Ridge Top	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/14/17	1892480	3	<3	3	1	20	12	67	<0.3	16	8	247	3.55	10	<2	12	<0.5	<3	<3	70	0.15	0.031	13	30	0.5	229	0.077	<20	2.08	<0.01	0.08	<2	<0.05	<1	<5	6	<5
1892188	09/15/17	63.53251	-138.765	7046863	611138		10-20	B/C	10-15	Light Brow	5	0	50	20	15	10	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bocki	Soil	EUK-17029	SHEBA	7N		09/15/17	1892188	3	<3	<2	<1	10	9	111	<0.3	45	8	274	2.41	4	<2	11	<0.5	<3	<3	50	0.27	0.047	9	101	1.17	392	0.128	<20	1.75	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
1892189	09/15/17	63.53257	-138.764	7046872	611178.7		20-30	C	15-20	Light Brow	0	0	60	20	5	15	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bocki	Soil	EUK-17029	SHEBA	7N		09/15/17	1892189	2	<3	2	<1	10	6	84	<0.3	19	8	423	2.85	5	<2	11	<0.5	<3	<3	53	0.21	0.038	10	91	1.25	486	0.157	<20	2.23	<0.01	0.39	<2	<0.05	<1	<5	<5	<5
1892190	09/15/17	63.53264	-138.763	7046880	611231.1		40-50	C	30up	Light Brow	0	0	60	20	5	15	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bocki	Soil	EUK-17029	SHEBA	7N		09/15/17	1892190	3	<3	<2	<1	15	9	73	<0.3	21	8	319	3.6	9	<2	8	<0.5	<3	<3	67	0.11	0.03	8	76	0.97	275	0.132	<20	2.22	<0.01	0.2	<2	<0.05	<1	<5	<5	<5
1892191	09/15/17	63.53263	-138.763	7046880	611230.7	1892190	40-50	C	30up	Light Brow	0	0	60	20	5	15	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bocki	Soil	EUK-17029	SHEBA	7N	FieldDuplic	09/15/17	1892191	3	<3	<2	<1	16	10	75	<0.3	21	8	336	3.79	9	3	8	<0.5	<3	<3	70	0.12	0.032	8	78	0.99	291	0.14	<20	2.33	<0.01	0.2	<2	<0.05	<1	<5	<5	<5
1892192	09/15/17	63.53276	-138.762	7046896	611278.9		30-40	C	20-25	Light Brow	0	0	60	20	5	15	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bocki	Soil	EUK-17029	SHEBA	7N		09/15/17	1892192	4	<3	<2	<1	19	6	72	<0.3	23	11	435	2.77	6	2	13	<0.5	<3	<3	53	0.26	0.073	21	49	1.02	413	0.141	<20	2.09	<0.01	0.41	<2	<0.05	<1	<5	<5	<5
1892193	09/15/17	63.53281	-138.761	7046903	611322.6		40-50	B/C	15-20	Light Brow	5	0	45	30	5	15	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bocki	Soil	EUK-17029	SHEBA	7N		09/15/17	1892193	<2	<3	<2	<1	8	6	60	<0.3	12	5	325	2.53	4	<2	7	<0.5	<3	<3	53	0.1	0.049	4	48	0.83	437	0.167	<20	1.77	<0.01	0.25	<2	<0.05	<1	<5	6	<5
1892194	09/15/17	63.53291	-138.76	7046916	611373.4		30-40	C	20-25	Light Brow	0	0	60	15	5	20	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bocki	Soil	EUK-17029	SHEBA	7N		09/15/17	1892194	3	<3	<2	<1	16	7	70	<0.3	21	9	313	2.99	7	2	9	<0.5	<3	<3	52	0.15	0.04	9	44	0.86	259	0.127	<20	2.01	<0.01	0.23	<2	<0.05	<1	<5	<5	<5
1892195	09/15/17	63.53302	-138.759	7046930	611425.5		40-50	C	25-30	Light Brow	0	0	50	30	10	10	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bocki	Soil	EUK-17029	SHEBA	7N		09/15/17	1892195	3	<3	<2	<1	12	9	49	<0.3	16	6	210	2.76	8	<2	9	<0.5	<3	<3	59	0.1	0.025	10	43	0.61	261	0.096	<20	1.83	<0.01	0.1	<2	<0.05	<1	<5	6	<5
1892196	09/15/17	63.53308	-138.758	7046939	611475.4		50-60	C	15-20	Light Brow	0	0	60	15	5	20	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bocki	Soil	EUK-17029	SHEBA	7N		09/15/17	1892196	2	<3	<2	<1	21	6	82	<0.3	27	8	375	2.55	3	<2	16	<0.5	<3	<3	46	0.35	0.088	11	59	1.05	568	0.164	<20	1.98	<0.01	0.43	<2	<0.05	<1	<5	<5	<5
1892197	09/15/17	63.53316	-138.757	7046949	611521.6		40-50	C	30up	Light Brow	0	0	70	10	0	20	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bocki	Soil	EUK-17029	SHEBA	7N		09/15/17	1892197	<2	<3	<2	<1	13	3	94	<0.3	21	9	497	2.68	2	2	9	<0.5	<3	<3	54	0.31	0.101	6	61	1.64	359	0.16	<20	2.4	<0.01	0.64	<2	<0.05	<1	<5	<5	<5
1892198	09/15/17	63.53326	-138.756	7046962	611571.5		40-50	C	30up	Light Brow	0	0	60	15	5	20	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bocki	Soil	EUK-17029	SHEBA	7N		09/15/17	1892198	3	<3	<2	<1	16	8	59	<0.3	18	8	314	2.75	6	3	16	<0.5	<3	<3	50	0.35	0.071	15	36	0.69	514	0.077	<20	1.51	<0.01	0.16	<2	<0.05	<1	<5	<5	7
1892199	09/15/17	63.53333	-138.755	7046971	611618.1		30-40	C	15-20	Light Brow	0	0	70	10	10	10	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bocki	Soil	EUK-17029	SHEBA	7N		09/15/17	1892199	<2	<3	<2	<1	10	7	67	<0.3	14	6	312	2.67	4	<2	9	<0.5	<3	<3	58	0.17	0.086	5	42	0.93	223	0.161	<20	1.81	<0.01	0.23	<2	<0.05	<1	<5	<5	<5
1892200	09/15/17	63.53339	-138.754	7046980	611667.6		30-40	C	20-25	Light Brow	0	0	50	25	10	15	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bocki	Soil	EUK-17029	SHEBA	7N		09/15/17	1892200	2	<3	<2	<1	11	6	79	<0.3	21	9	455	3	2	3	11	<0.5	<3	<3	55	0.34	0.08	10	70	1.22	527	0.161	<20	2.08	<0.01	0.55	<2	<0.05	<1	<5	<5	<5
1892227	09/15/17	63.52667	-138.745	7046246	612124.4		20-30	C	5-10	Dark Grey	10	20	20	30	10	10	Weatherec	Saturated	Evergreen	Mid Slope	Heiko Mue	Soil	EUK-17029	SHEBA	7N		09/15/17	1892227	5	<3	<2	<1	24	11	55	<0.3	19	8	367	2.31	6	<2	24	<0.5	<3	<3	47	0.34	0.051	16	27	0.42	537	0.069	<20	1.31	<0.01	0.06	<2	<0.05	<1	<5	<5	6
1892228	09/15/17	63.52652	-138.746	7046228	612070.6		20-30	B/C	5-10	Dark Brow	10	10	20	30	20	10	Weatherec	Wet	Evergreen	Mid Slope	Heiko Mue	Soil	EUK-17029	SHEBA	7N		09/15/17	1892228	5	<3	2	1	27	12	66	<0.3	20	9	359	3.1	9	<2	19	<0.5	<3	<3	63	0.26	0.057	16	35	0.46	578	0.061	<20	1.94	<0.01	0.07	<2	<0.05	<1	<5	<5	7
1892229	09/15/17	63.52657	-138.748	7046232	612011.8		10-20	C	5-10	Light Brow	10	20	20	20	20	10	Weatherec	Wet	Evergreen	Mid Slope	Heiko Mue	Soil	EUK-17029	SHEBA	7N		09/15/17	1892229	10	<3	<2	<1	21	11	57	<0.3	18	11	451	2.58	7	2	13	<0.5	<3	<3	57	0.18	0.051	10	34	0.42	320	0.065	<20	1.18	<0.01	0.07	<2	<0.05	<1	<5	<5	6
1892230	09/15/17	63.52658	-138.748	7046232	611972.4		10-20	C	5-10	Light Brow	5	20	10	30	20	15	Weatherec	Moist	Evergreen	Mid Slope	Heiko Mue	Soil	EUK-17029	SHEBA	7N		09/15/17	1892230	4	<3	<2	<1	17	11	60	<0.3	17	11	647	2.85	14	<2	17	<0.5	5	<3	67	0.07	0.032	7	32	0.23	215	0.046	<20	0.71	<0.01	0.07	<2	<0.05	1	<5	<5	9
1892231	09/15/17	63.52641	-138.75	7046210	611916.1		40-50	C	20-25	Light Brow	5	20	20	20	20	15	Weatherec	Moist	Evergreen	Mid Slope	Heiko Mue	Soil	EUK-17029	SHEBA	7N		09/15/17	1892231	6	<3	<2	<1	15	11	58	<0.3	17	9	383	2.8	7	<2	16	<0.5	<3	<3	60	0.33	0.054	17	42	0.6	683	0.085	<20	1.55	<0.01	0.08	<2	<0.05	<1	<5	<5	6
1892232	09/15/17	63.52644	-138.75	7046213	611875.5		30-40	C	15-20	Light Brow	5	5	10	30	40	10	Weatherec	Moist	Evergreen	Mid Slope	Heiko Mue	Soil	EUK-17029	SHEBA	7N		09/15/17	1892232	6	<3	<2	<1	26	10	97	<0.3	21	12	501	3.95	4	6	16	<0.5	<3	<3	88	0.52	0.115	23	82	1.32	1053	0.187	<20	2.19	<0.01	0.56	<2	<0.05	<1	<5	<5	11
1892233	09/15/17	63.52636	-138.751	7046202	611822.6		30-40	C	20-25	Light Brow	5	5	10	30	40	10	Weatherec	Moist	Evergreen	Mid Slope	Heiko Mue	Soil	EUK-17029	SHEBA	7N		09/15/17	1892233	2	<3	<2	<1	16	9	91	<0.3	19	11	464	3.62	8	3	11	<0.5	<3	<3	73	0.27	0.109	7	60	1.17	460	0.155	<20	2.46	<0.01	0.46	<2	<0.05	<1	<5	5	6
1892234	09/15/17	63.52633	-138.752	7046197	611775.1		30-40	C	15-20	Light Brow	5	10	20	20	30	15	Weatherec	Moist	Evergreen	Mid Slope	Heiko Mue	Soil	EUK-17029	SHEBA	7N		09/15/17	1892234	3	<3	<2	<1	17	12	89	<0.3	18	10	437	3.38	4	7	11	<0.5	<3	<3	65	0.23	0.056	14	58	1.24	620	0.174	<20	2.21	<0.01	0.51	<2	<0.05	<1	<5	<5	8
1892235	09/15/17	63.52636	-138.753	7046198	611730.3		30-40	C	15-20	Light Brow	5	10	20	20	30	15	Weatherec	Moist	Evergreen	Mid Slope	Heiko Mue	Soil	EUK-17029	SHEBA	7N		09/15/17	1892235	4	4	<2	<1	20	11	65	<0.3	19	9	305	2.8	6	6	15	<0.5	<3	<3	57	0.21	0.031	21	46	0.85	459	0.12	<20	1.81	<0.01	0.13	<2	<0.05	<1	<5	<5	6
1892236	09/15/17	63.52625	-138.754	7046183	611674.8		30-40	C	15-20	Light Brow	5	5	10	40	30	10	Weatherec	Moist	Evergreen	Mid Slope	Heiko Mue	Soil	EUK-17029	SHEBA	7N		09/15/17	1892236	4	<3	<2	<1	19	8	71	<0.3	17	11	386	2.96	4	6	15	<0.5	<3	<3	59	0.28	0.043	27	50	1.2	558	0.163	<20	2.08	<0.01	0.44	<2	<0.05	<1	<5	<5	6
1892237	09/15/17	63.52618	-138.755	7046174	611623.2		30-40	C	15-20	Light Brow	5	5	20	30	30	10	Weatherec	Moist	Evergreen	Mid Slope	Heiko Mue	Soil	EUK-17029	SHEBA	7N		09/15/17	1892237	7	<3	<2	<1	31	11	100	<0.3	19	24	746	4.65	3	6	24	<0.5	<3	<3	101	0.4	0.06	46	51	1.94	788	0.168	<20	2.75	<0.01	0.73	<2	<0.05	<1	<5	<5	7
1892238	09/15/17	63.52632	-138.756	7046188	611579.1		20-30	C	10-15	Light Brow	5	5	20	30	35	5	Weatherec	Moist	Evergreen	Mid Slope	Heiko Mue	Soil	EUK-17029	SHEBA	7N		09/15/17	1892238	4	<3	<2	<1	29	11	81	<0.3	19	10	521	3.23	6	6	14	<0.5	<3	<3	53	0.17	0.021	77	32	0.93	446	0.154	<20	1.98	<0.01	0.3	<2	<0.05	<1	<5	<5	13
1892239	09/15/17	63.52611	-138.757	7046163	611528		0-10	C	5-10	Light Brow	5	10	10	30	40	5	Weatherec	Moist	Evergreen	Mid Slope	Heiko Mue	Soil	EUK-17029	SHEBA	7N		09/15/17	1892239	4	<3	<2	1	12	13	60	<0.3	12	5	224	2.39	6	4	10	<0.5	<3	<3	37	0.1	0.026	19	20	0.44	276	0.071	<20	1.37	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
1892240	09/15/17	63.526	-138.758	7046150	611480.1		20-30	C	5-10	Dark Grey	10	10	10	30	30	10	Weatherec	Moist	Evergreen	Mid Slope	Heiko Mue	Soil	EUK-17029	SHEBA	7N		09/15/17	1892240	3	<3	<2	<1	14	12	22	<0.3	6	3	179	1.65	4	<2	10	<0.5	<3	<3	37	0.09	0.076	13	16	0.11	311	0.029	<20	1.06	<0.01	0.05	<2	<0.05	<1	<5	5	<5
1892241	09/15/17	63.52591	-138.759	7046139	611472.5	1892240	20-30	C	5-10	Dark Grey	10	10	10	30	30	10	Weatherec	Moist	Evergreen	Mid Slope	Heiko Mue	Soil	EUK-17029	SHEBA	7N	FieldDuplic	09/15/17	1892241	3	<3	<2	<1	6	10	16	<0.3	4	2	68	1.18	4	<2	10	<0.5	<3	<3	36	0.09	0.036	12	13	0.09	267	0.027	<20	0.85	<0.01	0.05	<2	<0.05	<1	<5	5	<5
1892242	09/15/17	63.52592	-138.759	7046139	611432.7		30-40	C	10-15	Light Brow	5	5	10	30	40	10	Weatherec	Moist	Evergreen	Mid Slope	Heiko Mue	Soil	EUK-17029	SHEBA	7N		09/15/17	1892242	6	<3	<2	<1	24	12	53	<0.3	20	9	293	3	12	6	11	<0.5	<3	<3	56	0.1	0.02	22	35	0.49	620	0.06	<20	2.02	<0.01	0.05	<2	<0.05	<1	<5	5	6
1892243	09/15/17	63.52573	-138.76	7046115	611384		20-30	C	15-20	Light Brow	5	5	10	30	45	5	Weatherec	Moist	Evergreen	Mid Slope	Heiko Mue	Soil	EUK-17029	SHEBA	7N		09/15/17	1892243	4	<3	<2	<1	22	12	57	<0.3	20	10	401	2.78	10	7	12	<0.5	<3	<3	54	0.14	0.032	16	35	0.53	412	0.072	<20	1.87	<0.01	0.07	<2	<0.05	<1	<5	<5	5
1892244	09/15/17	63.52566	-138.761	7046107	611339.9		20-30	C	10-15	Light Brow	5	5	10	20	50	10	Weatherec	Moist	Evergreen	Mid Slope	Heiko Mue	Soil	EUK-17029	SHEBA	7N		09/15/17	1892244	2	<3	<2	<1	23	10	80	<0.3	24	15	438	3.63	6	3	13	<0.5	<3	<3	75	0.26	0.06	11	77	1.16	521	0.148	<20	2.46	<0.01	0.37	<2	<0.05	<1	<5	6	<5
1892245	09/15/17	63.52551	-138.762	7046088	611292.5		20-30	C	15-20	Light Brow	5	5	20	30	35	5	Weatherec	Moist	Evergreen	Mid Slope	Heiko Mue	Soil	EUK-17029	SHEBA	7N		09/15/17	1892245	3	<3	<2	<1	20	8	76	<0.3	21	12	497	3.62	6	2	10	<0.5	<3	<3	80	0.18	0.047	7	61	1.26	237	0.168	<20	2.76	<0.01	0.4	<2	<0.05	<1	<5	8	<5
1892246	09/15/17	63.52531	-138.763	7046064	611244.3		10-20	C	5-10	Light Brow	10	5	10	30	40	5	Weatherec	Moist	Evergreen	Mid Slope	Heiko Mue	Soil	EUK-17029	SHEBA	7N		09/15/17	1892246	<2	<3	<2	<1	13	6	66	<0.3	14	9	470	2.65	3	<2	9	<0.5	<3	<3	69	0.19	0.046	4	55	1.27	361	0.228	<20	2.04	<0.01	0.7	<2	<0.05	<1	<5	8	<5
1892247	09/15/17	63.52527	-138.764	7046057	611194.3		20-30	C	15-20	Light Brow	5	5	10	35	35	10	Weatherec	Moist	Evergreen	Mid Slope	Heiko Mue	Soil	EUK-17029	SHEBA	7N		09/15/17	1892247	3	4	<2	<1	20	9	59	<0.3	22	12	343	3.1	9	4	10	<0.5	<3	<3	72	0.14	0.032	10	55	1	278	0.139	<20	2.1	<0.01	0.26	<2	<0.05	<1	<5	7	<5
1892248	09/15/17	63.5251	-138.765	7046038	611154.1		20-30	C	15-20	Light Brow	5	5	10	30	40	10	Weatherec	Moist	Evergreen	Mid Slope	Heiko Mue	Soil	EUK-17029	SHEBA	7N		09/15/17	1892248	2	<3	<2	<1	21	6	72	<0.3	28	14	408	3.27	4	<2	11	<0.5	<3	<3	76	0.22	0.028	8	90	1.62	681	0.221	<20	2.7	<0.01	0.5	<2	<0.05	<1	<5	5	<5
1892286	09/15/17	63.54265	-138.749	7048019	611876.5		20-30	C	5-10	Light Brow	0	5	30	30	30	5	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/15/17	1892286	7	<3	<2	2	43	18	77	<0.3	30	12	465	3.12	29	3	18	<0.5	<3	<3	58	0.14	0.039	19	54	0.57	459	0.061	<20	1.84	<0.01	0.07	<2	<0.05	<1	<5	<5	5
1892287	09/15/17	63.54272	-138.75	7048026	611830.1		20-30	C	5-10	Light Brow	0	10	30	20	20	20	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/15/17	1892287	4	3	2	1	26	16	59	<0.3	19	8	251	2.84	18	3	12	<0.5	<3	<3	60	0.1	0.023	18	31	0.45	301	0.048	<20	1.79	<0.01	0.05	<2	<0.05	<1	<5	6	<5
1892288	09/15/17	63.54266	-138.751	7048017	611777.3		20-30	C	10-15	Light Brow	0	10	35	30	20	5	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/15/17	1892288	6	<3	<2	1	37	20	60	<0.3	24	10	285	2.6	24	3	14	<0.5	<3	<3	49	0.1	0.029	21	28	0.44	279	0.044	<20	1.55	<0.01	0.04	<2	<0.05	<1	<5	5	5
1892289	09/15/17	63.54277	-138.752	7048028	611731.5		20-30	C	5-10	Light Brow	0	5	25	30	30	10	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/15/17	1892289	8	<3	<2	1	29	13	61	<0.3	24	12	366	2.84	16	5	14	<0.5	<3	<3	55	0.11	0.016	16	31	0.51	354	0.054	<20	1.86	<0.01	0.04	<2	<0.05	<1	<5	6	6
1892290	09/15/17	63.54287	-138.753	7048037	611686.7		20-30	C	5-10	Light Brow	0	5	25	30	30	10	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/15/17	1892290	5	3	<2	<1	26	14	49	<0.3	22	8	261	2.94	13	6	12	<0.5	<3	<3	59	0.11	0.016	16	33	0.46	364	0.066	<20	2.29	<0.01	0.04	<2	<0.05	<1	<5	<5	<5
1892291	09/15/17	63.54297	-138.754	7048047	611637.6		20-30	C	5-10	Light Brow	0	5	25	30	40	0	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/15/17	1892291	6	<3	<2	<1	29	13	52	<0.3	22	9	283	2.9	11	8	12	<0.5	<3	<3	57	0.1	0.016	19	31	0.48	312	0.069	<20	2.13	<0.01	0.05	<2	<0.05	<1	<5	<5	6
1892292	09/15/17	63.54317	-138.755	7048068	611581		20-30	C	5-10	Light Brow	0	10	15	30	20	25	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/15/17	1892292	2	<3	<2	<1	12	21	78	<0.3	14	7	528	2.71	8	12	11	<0.5	<3	<3	38	0.14	0.026	61	27	0.39	174	0.062	<20	1.79	<0.01	0.27	<2	<0.05	<1	<5	5	<5
1892293	09/15/17	63.54325	-138.756	7048075	611538.1		20-30	C	5-10	Light Brow	0	20	25	15	15	25	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/15/17	1892293	2	<3	<2	<1	9	13	78	<0.3	15	8	934	3.32	10	14	13	<0.5	<3	<3	50	0.16	0.04	23	24	0.49	305	0.096	<20	2.19	<0.01	0.35	<2	<0.05	<1	<5	8	<5
1892294	09/15/17	63.54336	-138.757	7048086	611500.8		20-30	C	5-10	Light Brow	0	10	25	20	30	15	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/15/17	1892294	3	<3	<2	<1	14	14	66	<0.3	17	8	272	3.03	14	10	10	<0.5	<3	<3	48	0.09	0.02	29	26	0.47	230	0.109	<20	2.11	<0.01	0.26	<2	<0.05	<1	<5	6	<5
1892295	09/15/17	63.54341	-138.758	7048089	611444.5		20-30	C	5-10	Light Brow	0	0	25	30	40	5	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/15/17	1892295	4	<3	<2	<1	10	14	40	<0.3	10	5	223	2.65	9	5	10	<0.5	<3	<3	54	0.1	0.025	12	25	0.43	185	0.079	<20	1.7	<0.01	0.1	<2	<0.05	<1	<5	7	<5
1892296	09/15/17	63.5436	-138.759	7048109	611396.1		20-30	C	5-10	Light Brow	0	5	25	30	30	10	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/15/17	1892296	2	<3	<2	<1	19	9	64	<0.3	35	14	378	3.88	7	5	16	<0.5	<3	<3	78	0.33	0.101	28	90	1.25	494	0.156	<20	2.71	<0.01	0.57	<2	<0.05	<1	<5	9	<5
1892297	09/15/17	63.54368	-138.76	7048116	611351		20-30	C	5-10	Light Brow	0	0	15	30	50	5	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/15/17	1892297	5	<3	2	<1	18	10	55	<0.3	19	9	343	2.93	10	5	14	<0.5	<3	<3	50	0.17	0.048	26	30	0.64	263	0.083	<20	1.85	<0.01	0.14	<2	<0.05	<1	<5	7	<5
1892298	09/15/17	63.54377	-138.761	7048124	611297.1		30-40	C	10-15	Light Brow	0	5	35	20	30	10	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/15/17	1892298	2	<3	<2	<1	16	15	128	<0.3	21	13	507	4.68	8	8	12	<0.5	<3	<3	70	0.19	0.068	48	57	1.56	378	0.209	<20	3.29	<0.01	1.1	<2	<0.05	<1	<5	13	8
1892299	09/15/17	63.54389	-138.762	7048137	611246.8		20-30	C	5-10	Light Brow	0	5	25	30	30	10	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N		09/15/17	1892299	3	<3	<2	<1	14	13	59	<0.3	17	10	408	3.74	8	6	13	<0.5	<3	<3	79	0.16	0.046	18	67	0.93	451	0.116	<20	2.35	<0.01	0.37	<2	<0.05	<1	<5	6	8
1892300	09/15/17	63.54389	-138.762	7048137	611246.8	1892299	20-30	C	5-10	Light Brow	0	5	25	30	30	10	Weatherec	Moist	Evergreen	Mid Slope	Tyler Legg	Soil	EUK-17029	SHEBA	7N	FieldDuplic	09/15/17	1892300	4	<3	<2	<1	13	12	59	<0.3	17	10	378	3.49	8	6	13	<0.5	<3	<3	73	0.15	0.041	20	58	0.92	433	0.118	<20	2.3	<0.01	0.33	<2	<0.05	<1	<5	8	8
1892301	09/15/17	63.53343	-138.753	7046985	611710.8		30-40	C	15-20	Light Brow	0	0	30	45	15	10	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bocki	Soil	EUK-17029	SHEBA	7N		09/15/17	1892301	4	<3	<2	<1	18	8	64	<0.3	66	10	305	2.83	8	3	20	<0.5	<3	<3	48	0.32	0.058	15	73	0.59	468	0.066	<20	1.4	<0.01	0.08	<2	<0.05	<1	<5	7	<5
1892302	09/15/17	63.53353	-138.752	7046999	611767.1		60-70	C	15-20	Yellowish (	0	0	40	20	20	20	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bocki	Soil	EUK-17029	SHEBA	7N		09/15/17	1892302	3	<3	<2	<1	25	6	64	<0.3	477	30	511	3.56	4	4	18	<0.5	<3	<3	50	0.46	0.074	20	311	1.33	556	0.105	<20	1.72	<0.01	0.3	<2	<0.05	<1	<5	7	7
1892303	09/15/17	63.53356	-138.751	7047004	611815.8		30-40	C	20-25	Light Brow	0	0	50	20	10	20	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bocki	Soil	EUK-17029	SHEBA	7N		09/15/17	1892303	4	<3	<2	<1	14	8	62	<0.3	28	10	449	2.87	5	4	18	<0.5	<3	<3	57	0.35	0.058	17	108	1.01	736	0.124	<20	1.87	<0.01	0.38	<2	<0.05	<1	<5	8	6
1892304	09/15/17	63.53364	-138.75	7047015	611867.9		30-40	C	15-20	Light Brow	0	0	30	40	20	10	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bocki	Soil	EUK-17029	SHEBA	7N		09/15/17	1892304	<2	<3	<2	<1	16	10	53	<0.3	25	8	272	2.5	5	<2	19	<0.5	<3	<3	55	0.36	0.049	15	55	0.58	719	0.076	<20	1.53	<0.01	0.11	<2	<0.05	<1	<5	5	6
1892305	09/15/17	63.53368	-138.749	7047021	611914		30-40	C	25-30	Light Brow	0	0	60	15	5	20	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bocki	Soil	EUK-17029	SHEBA	7N		09/15/17	1892305	20	<3	<2	<1	17	8	71	<0.3	24	9	363	2.59	4	4	15	<0.5	<3	<3	53	0.24	0.055	15	46	0.59	657	0.098	<20	1.38	<0.01	0.16	<2	<0.05	<1	<5	5	7
1892306	09/15/17	63.53375	-138.748	7047031	611967.3		30-40	C	25-30	Light Brow	0	0	60	10	10	20	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bocki	Soil	EUK-17029	SHEBA	7N		09/15/17	1892306	3	<3	<2	<1	15	7	67	<0.3	21	7	347	2.48	3	3	12	<0.5	<3	<3	49	0.25	0.072	18	48	0.53	802	0.094	<20	1.16	<0.01	0.22	<2	<0.05	<1	<5	5	8
1892307	09/15/17	63.53382	-138.747	7047040	612015.6		40-50	C	15-20	Light Brow	0	0	20	30	40	10	Weatherec	Wet	Evergreen	Mid Slope	Nigel Bocki	Soil	EUK-17029	SHEBA	7N		09/15/17	1892307	5	<3	<2	1	21	10	81	<0.3	26	11	464	3.19	7	3	19	<0.5	<3	<3	63	0.26	0.058	19	49	0.58	824	0.082	<20	1.9	<0.01	0.09	<2	<0.05	<1	<5	6	8
1892308	09/15/17	63.53384	-138.746	7047044	612058.8		30-40	C	15-20	Light Brow	0	0	40	25	20	15	Weatherec	Moist	Evergreen	Mid Slope	Nigel Bocki	Soil	EUK-17029	SHEBA	7N		09/15/17	1892308	8	3	<2	<1	16	10	63	<0.3	18	11	422	2.59	7	2	14	<0.5	<3	<3	50	0.2	0.056	15	34	0.48	371	0.069	<20	1.54	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1892481	09/15/17	63.54262	-138.748	7048018	611930.1		30-40	C	15-20	Light Brow	0	0	20	40	35	5	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/15/17	1892481	5	<3	4	1	34	10	70	<0.3	26	9	370	2.9	16	4	25	<0.5	4	6	50	0.31	0.056	18	30	0.49	546	0.054	<20	1.52	<0.01	0.05	<2	<0.05	<1	<5	<5	5
1892482	09/15/17	63.54258	-138.747	7048016	611984.7		40-50	C	10-15	Light Brow	0	0	35	40	10	15	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/15/17	1892482	4	<3	3	2	47	17	116	<0.3	30	10	369	3.36	395	6	26	<0.5	31	<3	39	0.18	0.034	16	38	0.15	258	0.01	<20	0.57	<0.01	0.06	<2	<0.05	<1	<5	<5	8
1892483	09/15/17	63.54252	-138.746	7048011	612036.3		70-80	C	25-30	Light Brow	0	5	50	35	0	10	Weatherec	Dry	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/15/17	1892483	20	<3	<2	1	51	19	140	<0.3	36	26	1309	6.92	15	15	27	<0.5	<3	8	120	0.97	0.241	29	124	2.63	626	0.186	<20	4.04	<0.01	1.08	<2	<0.05	<1	<5	18	15
1892484	09/15/17	63.54251	-138.745	7048012	612087.6		30-40	B/C	10-15	Light Brow	0	0	30	35	25	10	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/15/17	1892484	5	<3	2	1	17	13	61	<0.3	26	12	530	3.31	13	6	20	<0.5	<3	<3	58	0.29	0.047	18	52	0.74	314	0.068	<20	1.85	<0.01	0.08	<2	<0.05	<1	<5	6	<5
1892485	09/15/17	63.54239	-138.744	7048000	612135.8		50-60	C	20-25	Light Brow	0	0	40	30	10	20	Weatherec	Dry	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/15/17	1892485	<2	<3	<2	1	11	18	100	<0.3	13	11	831	4.07	11	14	15	<0.5	3	4	58	0.38	0.135	17	40	1.28	316	0.187	<20	2.15	<0.01	0.86	<2	<0.05	<1	<5	8	7
1892486	09/15/17	63.5424	-138.743	7048003	612186.2		30-40	C	15-20	Light Brow	0	0	40	40	5	15	Weatherec	Dry	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/15/17	1892486	2	<3	<2	<1	14	11	71	<0.3	20	9	475	3.49	10	14	15	<0.5	<3	<3	45	0.2	0.044	30	37	0.7	374	0.119	<20	1.87	<0.01	0.38	<2	<0.05	<1	<5	5	6
1892487	09/15/17	63.54234	-138.742	7047998	612240.8		50-60	C	25-30	Light Brow	0	0	40	30	10	20	Weatherec	Dry	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/15/17	1892487	7	<3	4	<1	12	11	64	<0.3	14	9	422	3.15	10	12	15	<0.5	<3	<3	39	0.26	0.068	37	22	0.55	315	0.123	<20	1.52	<0.01	0.43	<2	<0.05	<1	<5	6	6
1892488	09/15/17	63.54221	-138.741	7047985	612280.2		40-50	C	15-20	Light Brow	0	0	30	40	20	10	Weatherec	Dry	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/15/17	1892488	4	<3	6	1	17	16	52	<0.3	19	9	349	2.78	14	9	16	<0.5	<3	<3	46	0.19	0.033	28	31	0.44	354	0.068	<20	1.51	<0.01	0.09	<2	<0.05	<1	<5	6	<5
1892489	09/15/17	63.54218	-138.74	7047984	612339.9		40-50	C	10-15	Light Brow	0	0	20	40	35	5	Weatherec	Moist	Buck Brush	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/15/17	1892489	4	<3	3	1	25	14	72	<0.3	23	14	731	3.33	12	7	19	<0.5	<3	<3	68	0.77	0.032	27	32	0.58	385	0.045	<20	1.28	<0.01	0.11	<2	<0.05	<1	<5	<5	9
1892490	09/15/17	63.54216	-138.739	7047983	612386.9		>80	C	30up	Light Brow	0	0	35	30	15	20	Weatherec	Dry	Buck Brush	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/15/17	1892490	<2	<3	<2	<1	40	20	113	<0.3	44	21	984	5.5	9	26	13	<0.5	<3	3	45	0.43	0.123	55	51	1.06	318	0.213	<20	1.92	<0.01	1.04	<2	<0.05	<1	<5	5	7
1892491	09/15/17	63.54216	-138.739	7047983	612386.9	1892490	>80	C	30up	Light Brow	0	0	35	30	15	20	Weatherec	Dry	Buck Brush	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N	FieldDuplic	09/15/17	1892491	<2	<3	<2	<1	39	23	110	<0.3	43	20	1099	5.39	13	24	12	<0.5	<3	<3	39	0.39	0.116	42	45	0.88	342	0.19	<20	1.75	<0.01	0.93	<2	<0.05	<1	<5	<5	7
1892492	09/15/17	63.54211	-138.738	7047979	612430		50-60	C	20-25	Light Brow	0	0	30	35	20	15	Weatherec	Moist	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/15/17	1892492	6	<3	2	<1	24	8	56	<0.3	27	10	465	2.63	11	7	27	<0.5	<3	<3	45	0.41	0.058	26	35	0.46	470	0.062	<20	1.34	0.01	0.07	<2	<0.05	<1	<5	<5	5
1892493	09/15/17	63.54208	-138.737	7047978	612481.7		40-50	B/C	10-15	Light Brow	0	0	30	40	20	10	Weatherec	Saturated	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/15/17	1892493	3	<3	4	<1	22	10	58	<0.3	27	10	340	2.79	11	7	24	<0.5	<3	<3	46	0.39	0.051	25	39	0.52	443	0.069	<20	1.47	<0.01	0.1	<2	<0.05	<1	<5	<5	5
1892494	09/15/17	63.54213	-138.736	7047985	612530.4		40-50	C	5-10	Light Brow	0	0	35	40	15	10	Weatherec	Partially Fr	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/15/17	1892494	5	<3	2	<1	20	12	54	<0.3	21	9	401	2.58	9	7	23	<0.5	<3	<3	40	0.37	0.06	27	31	0.47	401	0.069	<20	1.35	<0.01	0.11	<2	<0.05	<1	<5	<5	<5
1892495	09/15/17	63.54205	-138.735	7047978	612582.9		30-40	C	5-10	Light Brow	0	0	40	35	5	20	Weatherec	Dry	Evergreen	Mid Slope	Ryan Lenb	Soil	EUK-17029	SHEBA	7N		09/15/17	1892495	<2	<3	<2	<1	19	10	63	<0.3	21	11	424	2.97	16	10	18	<0.5	<3	6	36	0.31	0.072	26	26	0.39	271	0.068	<20	1.06	<0.01	0.19	<2	<0.05	<1	<5	<5	<5

Appendix III: 2017 Stream Silt Geochemical Data

2017 Stream Silt Geochemical Data

SampleID	DateCreated	Latitude	Longitude	Northing_NAD83	Easting_NAD83	Description	SiteNo	Physiography	SurfaceExpression	DrainagePattern	SiteDrainage	StreamSource	StreamClass	StreamType
1891988	10/17/09	63.52179845	-138.7117727	7045763.283	613812.715	spring	ss1904_1	Mountainous	Inclined	Dendritic	Mod	Ground	Primary	Permanent
1891989	10/17/09	63.52328376	-138.7100306	7045931.804	613893.4148		ss1904	Mountainous	Inclined	Dendritic	Mod	Ground	Primary	Permanent
1891990	10/17/09	63.5233101	-138.7095178	7045935.65	613918.8073		ss1904_2	Mountainous	Inclined	Dendritic	Mod	Ground	Primary	Permanent
1891991	10/17/09	63.5240107	-138.7076585	7046016.988	614008.4536		ss1903_1	Mountainous	Inclined	Dendritic	Mod	Ground	Primary	Permanent
1891992	10/17/09	63.52489693	-138.7067805	7046117.254	614048.572		ss1903	Mountainous	Inclined	Dendritic	Well	Ground	Secondary	Permanent
1891993	10/17/09	63.52702021	-138.7038191	7046359.007	614187.3148		ss1902	Mountainous	Inclined	Dendritic	Mod	Ground	Secondary	Permanent
1891994	10/17/09	63.52876549	-138.7000582	7046560.097	614367.2906		ss1901	Hilly	Flat	Dendritic	Well	Ground	Secondary	Permanent
1891995	10/17/09	63.52943414	-138.695913	7046641.982	614570.6687		ss1900	Hilly	Inclined	Dendritic	Well	Ground	Secondary	Permanent
1891996	10/17/09	63.53081799	-138.690285	7046806.19	614844.8661		ss1807	Mountainous	Hummocky	Dendritic	Well	Ground	Tertiary	Permanent
1891997	10/17/09	63.53094187	-138.6813852	7046835.989	615286.7392		ss1805_1	Hilly	Inclined	Dendritic	Mod	Ground	Primary	Permanent
1891998	10/17/09	63.53084705	-138.6816314	7046824.986	615274.8857		ss1805	Hilly	Inclined	Dendritic	Well	Ground	Secondary	Permanent
1891999	10/17/09	63.53186142	-138.6708344	7046957.452	615807.4465		ss1803	Hilly	Hummocky	Dendritic	Well	Ground	Secondary	Permanent
1892201	10/17/09	63.53456063	-138.6641274	7047270.217	616129.833		ss1801	Hilly	Flat	Dendritic	Well	Ground	Secondary	Permanent
1892202	11/17/09	63.51667014	-138.6579458	7045289	616510		ss2405	Plain	Inclined	Dendritic	Mod	Ground	Secondary	Permanent
1892203	11/17/09	63.51795182	-138.6563045	7045434.729	616586.3907	multiple streams	ss2404	Plain	Flat	Dendritic	Mod	Ground	Secondary	Permanent
1892204	11/17/09	63.51942154	-138.6557838	7045599.359	616606.2877		ss2403_1	Hilly	Inclined	Dendritic	Mod	Ground	Primary	Permanent
1892205	11/17/09	63.51926477	-138.6552603	7045582.854	616632.958		ss2403	Plain	Inclined	Dendritic	Well	Ground	Secondary	Permanent
1892206	11/17/09	63.52188048	-138.653479	7045877.41	616710.8524		ss2402	Plain	Inclined	Dendritic	Well	Ground	Secondary	Permanent
1892207	11/17/09	63.52391154	-138.6521966	7046105.946	616766.3099		ss2401	Plain	Flat	Dendritic	Well	Ground	Secondary	Permanent
1892208	11/17/09	63.52488044	-138.6496391	7046218.521	616889.5016		ss2400	Hilly	Hummocky	Dendritic	Mod	Ground	Secondary	Permanent
1892209	09/14/17	63.53088956	-138.7427732	7046721.032	612235.5611		ss0903	Hilly	Hummocky	Dendritic	Mod	Ground	Tertiary	Permanent
1892210	09/14/17	63.53034879	-138.7434657	7046659.59	612203.2608		ss1000	Hilly	Inclined	Dendritic	Mod	Ground	Primary	Permanent
1892211	09/14/17	63.52979733	-138.7429678	7046599.045	612230.1778		ss1100	Plain	Hummocky	Dendritic	Mod	Ground	Tertiary	Permanent
1892212	09/14/17	63.52806761	-138.7425721	7046407.095	612256.646		ss1101	Plain	Hummocky	Dendritic	Mod	Ground	Tertiary	Permanent
1892213	09/14/17	63.52604014	-138.742191	7046181.957	612283.5628		ss1102	Plain	Hummocky	Dendritic	Well	Ground	Tertiary	Permanent
1892214	09/14/17	63.52327242	-138.7438985	7045870.711	612209.5414		ss1200	Hilly	Hummocky	Dendritic	Well	Ground	Primary	Permanent
1892215	09/14/17	63.5229591	-138.7434361	7045836.627	612233.7666		ss1103	Hilly	Hummocky	Dendritic	Well	Ground	Tertiary	Permanent
1892216	09/14/17	63.5231477	-138.7472373	7045850.971	612044.0238		ss1201	Hilly	Hummocky	Dendritic	Mod	Ground	Primary	Permanent
1892217	09/14/17	63.52265897	-138.7530273	7045786.416	611758.0523		ss1202	Hilly	Hummocky	Dendritic	Well	Ground	Primary	Permanent
1892218	09/14/17	63.5222687	-138.757186	7045735.694	611552.7986		ss1203	Hilly	Hummocky	Dendritic	Mod	Ground	Primary	Permanent
1892219	09/14/17	63.52185481	-138.7601218	7045684.483	611408.4381		ss1204	Hilly	Hummocky	Dendritic	Mod	Ground	Primary	Permanent
1892220	09/14/17	63.52088902	-138.76599	7045566.717	611120.4034		ss1205	Mountainous	Inclined	Dendritic	Mod	Ground	Primary	Permanent
1892221	09/14/17	63.52087098	-138.7658263	7045564.992	611128.617	1892221	ss1205	Mountainous	Inclined	Dendritic	Mod	Ground	Primary	Permanent
1892222	09/14/17	63.52882376	-138.7657474	7046450.865	611101.6074		ss1005	Hilly	Inclined	Dendritic	Mod	Ground	Primary	Permanent
1892223	09/14/17	63.52943175	-138.7618505	7046525.351	611292.9568		ss1004	Hilly	Inclined	Dendritic	Poor	Ground	Primary	Permanent
1892224	09/14/17	63.53021534	-138.7582548	7046618.881	611468.6426		ss1003	Hilly	Inclined	Dendritic	Poor	Ground	Primary	Permanent
1892225	09/14/17	63.53049822	-138.7523494	7046660.686	611761.0854		ss1002	Hilly	Inclined	Dendritic	Poor	Ground	Primary	Permanent
1892226	09/14/17	63.53027045	-138.7478943	7046643.107	611983.4307		ss1001	Hilly	Inclined	Dendritic	Mod	Ground	Primary	Permanent
1892268	09/14/17	63.532039	-138.7427385	7046849.109	612232.7699		ss0902	Hilly	Inclined	Dendritic	Well	Ground	Tertiary	Permanent
1892269	09/14/17	63.5340707	-138.742416	7047075.952	612240.8136		ss0901	Hilly	Inclined	Dendritic	Well	Ground	Tertiary	Permanent
1892270	09/14/17	63.53544796	-138.7391469	7047235.08	612397.8722		ss0900	Hilly	Inclined	Dendritic	Well	Ground	Tertiary	Permanent
1892271	09/14/17	63.53564421	-138.7400257	7047255.394	612353.4216		ss0800	Hilly	Inclined	Dendritic	Well	Ground	Secondary	Permanent
1892272	09/14/17	63.53549698	-138.7446712	7047230.848	612123.125		ss0801	Hilly	Inclined	Dendritic	Well	Ground	Secondary	Permanent
1892273	09/14/17	63.53621956	-138.7478709	7047305.722	611961.2699		ss0802	Hilly	Inclined	Dendritic	Well	Ground	Secondary	Permanent
1892274	09/14/17	63.53678666	-138.7530615	7047359.811	611701.0897		ss0803	Hilly	Inclined	Dendritic	Well	Ground	Secondary	Permanent
1892275	09/14/17	63.53628729	-138.7578289	7047295.881	611466.1081		ss0804	Hilly	Inclined	Dendritic	Well	Ground	Secondary	Permanent

1892276	09/14/17	63.53669593	-138.7629194	7047332.535	611211.5316		ss0805	Hilly	Inclined	Dendritic	Well	Ground	Secondary	Permanent
1892277	09/14/17	63.53677051	-138.7648443	7047337.498	611115.5776		ss0806	Hilly	Inclined	Dendritic	Well	Ground	Secondary	Permanent
1892278	09/14/17	63.54419665	-138.7276836	7048229.632	612932.973		ss0700	Hilly	Inclined	Dendritic	Mod	Ground	Tertiary	Permanent
1892279	09/14/17	63.54287244	-138.7316346	7048075.183	612741.9027		ss0701	Hilly	Inclined	Dendritic	Mod	Ground	Tertiary	Permanent
1892280	09/14/17	63.54091261	-138.7339688	7047852.801	612633.6589		ss0702	Hilly	Inclined	Dendritic	Mod	Ground	Tertiary	Permanent
1892281	09/14/17	63.54098056	-138.7339481	7047860.405	612634.4194	1892280	ss0702	Hilly	Inclined	Dendritic	Mod	Ground	Tertiary	Permanent
1892282	09/14/17	63.53881576	-138.7359002	7047615.87	612545.9537		ss0703	Hilly	Inclined	Dendritic	Well	Ground	Tertiary	Permanent
1892283	09/14/17	63.53830564	-138.7360241	7047558.838	612541.8075		extra	Hilly	Inclined	Dendritic	Well	Ground	Primary	Permanent
1892284	09/14/17	63.5373356	-138.7382802	7047446.836	612433.5113		ss0704	Hilly	Inclined	Dendritic	Well	Ground	Tertiary	Permanent
1892285	09/14/17	63.53602021	-138.7393529	7047298.452	612385.3839		ss0705	Hilly	Inclined	Dendritic	Mod	Ground	Tertiary	Permanent
1892421	10/17/09	63.52279521	-138.6951843	7045903.901	614633.5305		ss2003	Hilly	Inclined	Dendritic	Well	Ground	Primary	Re-emergent
1892422	10/17/09	63.52284472	-138.6950952	7045909.575	614637.7602	1892421	ss2003	Hilly	Inclined	Dendritic	Well	Ground	Primary	Re-emergent
1892423	10/17/09	63.52465794	-138.6952008	7046111.326	614625.2332		ss2002	Hilly	Inclined	Dendritic	Well	Ground	Primary	Permanent
1892424	10/17/09	63.52699431	-138.6950924	7046371.724	614621.2499		ss2001	Hilly	Hummocky	Dendritic	Mod	Ground	Primary	Re-emergent
1892425	10/17/09	63.52910466	-138.6949391	7046607.031	614620.4032		ss2000	Hilly	Inclined	Dendritic	Well	Ground	Primary	Permanent
1892426	10/17/09	63.52969543	-138.6945763	7046673.475	614636.0668		ss1808	Hilly	Inclined	Dendritic	Well	Ground	Tertiary	Permanent
1892427	10/17/09	63.53086513	-138.6848663	7046821.177	615114.0168		ss1806	Hilly	Inclined	Dendritic	Well	Ground	Tertiary	Permanent
1892428	10/17/09	63.53122509	-138.6759004	7046877.426	615558.2229		ss1804	Hilly	Inclined	Dendritic	Well	Ground	Tertiary	Permanent
1892429	10/17/09	63.53295971	-138.6673938	7047086	615974		ss1802	Hilly	Inclined	Dendritic	Well	Ground	Tertiary	Permanent
1892430	10/17/09	63.53542174	-138.6589164	7047375.587	616385.3046		ss1800	Hilly	Inclined	Dendritic	Well	Ground	Tertiary	Permanent
1892431	10/17/09	63.53544393	-138.658858	7047378.164	616388.1179	1892430	ss1800	Hilly	Inclined	Dendritic	Well	Ground	Tertiary	Permanent

StreamFlow	WaterColour	WaterClarity	Vegetation	BankTypes	Contamination	SedimentColour	Sand_pct	SiltClay_pct	Organics_pct	SiteRating	BedrockExposure	SampleType	SamplerName	JobCode
Fast	Clear	81-90	Moss	Colluvium	none	Light Brown	40	50	10	Good to Mod	MetaSeds	StreamSed	Heiko Mueller	EUK-17029-YT
Fast	Clear	61-70	Willows	Colluvium	out wash from burn	Light Brown	40	50	10	Mod to Poor	None	StreamSed	Heiko Mueller	EUK-17029-YT
Fast	Clear	61-70	Willows	Colluvium	burn	Light Brown	50	40	10	Mod to Poor	None	StreamSed	Heiko Mueller	EUK-17029-YT
Fast	Clear	81-90	Willows	Colluvium	burn	Grey	10	80	10	Mod	None	StreamSed	Heiko Mueller	EUK-17029-YT
Fast	Clear	41-50	Moss	Colluvium	burn	Dark Grey	20	70	10	Mod	None	StreamSed	Heiko Mueller	EUK-17029-YT
Fast	Clear	51-60	Willows	Colluvium	none	Brown Grey	50	40	10	Mod	None	StreamSed	Heiko Mueller	EUK-17029-YT
Fast	Clear	31-40	Willows	Colluvium	burn	Grey	20	70	10	Mod	None	StreamSed	Heiko Mueller	EUK-17029-YT
Fast	Brown	41-50	Willows	Colluvium	burn	Brown Grey	50	40	10	Mod	None	StreamSed	Heiko Mueller	EUK-17029-YT
Fast	Brown	21-30		Colluvium	none	Brown Grey	40	50	10	Mod	None	StreamSed	Heiko Mueller	EUK-17029-YT
Moderate	Clear	31-40	Coniferous	Colluvium	none	Brown Grey	50	40	10	Mod	None	StreamSed	Heiko Mueller	EUK-17029-YT
Fast	Brown	21-30	Willows	Colluvium	none	Brown Grey	50	40	10	Mod	None	StreamSed	Heiko Mueller	EUK-17029-YT
Fast	Brown	20-Nov	Willows	Colluvium	none	Grey	20	70	10	Mod	None	StreamSed	Heiko Mueller	EUK-17029-YT
Fast	Brown	20-Nov	Willows	Colluvium	none	Brown Grey	50	40	10	Good to Mod	None	StreamSed	Heiko Mueller	EUK-17029-YT
Moderate	Clear	61-70	Willows	Alluvium	none	Dark Grey	30	60	10	Poor	None	StreamSed	Heiko Mueller	EUK-17029-YT
Moderate	Clear	51-60	Grass	Alluvium	burn	Brown Grey	60	30	10	Mod to Poor	None	StreamSed	Heiko Mueller	EUK-17029-YT
Moderate	Clear	61-70	Moss	Colluvium	burn	Brown	70	20	10	Mod to Poor	None	StreamSed	Heiko Mueller	EUK-17029-YT
Fast	Clear	61-70	Willows	Colluvium	none	Brown Grey	70	20	10	Mod	None	StreamSed	Heiko Mueller	EUK-17029-YT
Moderate	Clear	51-60	Willows	Colluvium	none	Brown	70	20	10	Good to Mod	None	StreamSed	Heiko Mueller	EUK-17029-YT
Moderate	Clear	61-70	Willows	Colluvium	none	Brown Grey	70	20	10	Good to Mod	None	StreamSed	Heiko Mueller	EUK-17029-YT
Moderate	Clear	61-70	Willows	Colluvium	none	Brown Grey	50	40	10	Mod to Poor	None	StreamSed	Heiko Mueller	EUK-17029-YT
Moderate	Clear	51-60	Willows	Alluvium	burns	Dark Grey	40	40	20	Poor	None	StreamSed	Heiko Mueller	EUK-17029-YT
Moderate	Clear	31-40	Willows	Colluvium	burns	Grey	40	50	10	Mod to Poor	None	StreamSed	Heiko Mueller	EUK-17029-YT
Moderate	Clear	41-50	Grass	Alluvium	burns	Dark Grey	40	40	20	Mod to Poor	None	StreamSed	Heiko Mueller	EUK-17029-YT
Moderate	Clear	31-40	Grass	Alluvium	burns	Dark Grey	30	50	20	Poor	None	StreamSed	Heiko Mueller	EUK-17029-YT
Fast	Clear	21-30	Willows	Alluvium	none	Dark Grey	30	50	20	Mod to Poor	None	StreamSed	Heiko Mueller	EUK-17029-YT
Moderate	Clear	61-70	Willows	Colluvium	none	Brown Grey	50	40	10	Mod	None	StreamSed	Heiko Mueller	EUK-17029-YT
Moderate	Clear	51-60	Willows	Colluvium	none	Brown Grey	50	40	10	Mod	None	StreamSed	Heiko Mueller	EUK-17029-YT
Moderate	Clear	71-80	Willows	Colluvium	none	Brown Grey	50	40	10	Mod	None	StreamSed	Heiko Mueller	EUK-17029-YT
Moderate	Clear	71-80	Willows	Colluvium	none	Brown Grey	50	40	10	Mod	None	StreamSed	Heiko Mueller	EUK-17029-YT
Moderate	Clear	61-70	Willows	Colluvium	none	Brown Grey	50	40	10	Mod	None	StreamSed	Heiko Mueller	EUK-17029-YT
Moderate	Clear	81-90	Willows	Colluvium	none	Light Brown	60	30	10	Mod	None	StreamSed	Heiko Mueller	EUK-17029-YT
Moderate	Clear	71-80	Willows	Colluvium	none	Brown Grey	70	20	10	Mod to Poor	None	StreamSed	Heiko Mueller	EUK-17029-YT
Moderate	Clear	71-80	Willows	Colluvium	none	Brown Grey	70	20	10	Mod to Poor	None	StreamSed	Heiko Mueller	EUK-17029-YT
Moderate	Clear	51-60	Willows	Colluvium	none	Grey	50	40	10	Mod	None	StreamSed	Heiko Mueller	EUK-17029-YT
Slow	Clear	41-50	Willows	Colluvium	burns	Brown Grey	70	20	10	Poor	None	StreamSed	Heiko Mueller	EUK-17029-YT
Moderate	Brown	21-30	Willows	Colluvium	burns	Dark Brown	30	20	50	Poor	None	StreamSed	Heiko Mueller	EUK-17029-YT
Moderate	Clear	41-50	Willows	Colluvium	burns	Brown	70	20	10	Poor	None	StreamSed	Heiko Mueller	EUK-17029-YT
Moderate	Clear	61-70	Willows	Colluvium	burns	Brown Grey	50	40	10	Mod	None	StreamSed	Heiko Mueller	EUK-17029-YT
Moderate	Clear	91-100	Grass	Colluvium	none	Brown Grey	40	60	0	Good	None	StreamSed	Tyler Legg	EUK-17029-YT
Moderate	Clear	91-100	Willows	Colluvium	none	Brown Grey	20	70	10	Good to Mod	None	StreamSed	Tyler Legg	EUK-17029-YT
Moderate	Clear	91-100	Grass	Colluvium	none	Brown Grey	60	40	0	Good to Mod	None	StreamSed	Tyler Legg	EUK-17029-YT
Moderate	Clear	91-100	Willows	Colluvium	upstream of camp area	Brown Grey	50	50	0	Good to Mod	None	StreamSed	Tyler Legg	EUK-17029-YT
Moderate	Clear	91-100	Willows	Organic	none	Brown Grey	50	50	0	Good	None	StreamSed	Tyler Legg	EUK-17029-YT
Moderate	Clear	91-100	Willows	Organic	none	Brown Grey	60	40	0	Good	None	StreamSed	Tyler Legg	EUK-17029-YT
Moderate	Clear	91-100	Willows	Organic	none	Brown Grey	60	40	0	Good to Mod	None	StreamSed	Tyler Legg	EUK-17029-YT
Moderate	Clear	91-100	Willows	Colluvium	none	Brown Grey	30	60	10	Good to Mod	None	StreamSed	Tyler Legg	EUK-17029-YT

Moderate	Clear	91-100	Willows	Organic	none	Brown Grey	40	60	0	Good	None	StreamSed	Tyler Legg	EUK-17029-YT
Moderate	Clear	91-100	Willows	Organic	none	Brown Grey	40	60	0	Good to Mod	None	StreamSed	Tyler Legg	EUK-17029-YT
Slow	Clear	91-100	Willows	Organic	none	Dark Brown	5	80	15	Good to Mod	None	StreamSed	Tyler Legg	EUK-17029-YT
Moderate	Clear	91-100	Willows	Organic	none	Dark Grey	5	80	15	Good to Mod	None	StreamSed	Tyler Legg	EUK-17029-YT
Moderate	Clear	91-100	Willows	Organic	none	Dark Grey	0	80	20	Good to Mod	None	StreamSed	Tyler Legg	EUK-17029-YT
Moderate	Clear	91-100	Willows	Organic	none	Dark Grey	0	80	20	Good to Mod	None	StreamSed	Tyler Legg	EUK-17029-YT
Moderate	Clear	91-100	Willows	Organic	none	Brown Grey	40	60	0	Good	None	StreamSed	Tyler Legg	EUK-17029-YT
Moderate	Clear	91-100	Willows	Colluvium	none	Brown Grey	30	70	0	Good	None	StreamSed	Tyler Legg	EUK-17029-YT
Moderate	Clear	91-100	Willows	Colluvium	none	Brown Grey	5	80	15	Good to Mod	None	StreamSed	Tyler Legg	EUK-17029-YT
Moderate	Clear	91-100	Willows	Organic	50m downstream of camp	Brown Grey	60	40	0	Good	None	StreamSed	Tyler Legg	EUK-17029-YT
Moderate	Clear	91-100	Willows	Colluvium	none	Brown Grey	60	35	5	Good to Mod	None	StreamSed	Tyler Legg	EUK-17029-YT
Moderate	Clear	91-100	Willows	Colluvium	none	Brown Grey	60	35	5	Good to Mod	None	StreamSed	Tyler Legg	EUK-17029-YT
Moderate	Clear	91-100	Willows	Colluvium	none	Brown Grey	50	40	10	Good to Mod	None	StreamSed	Tyler Legg	EUK-17029-YT
Moderate	Clear	91-100	Willows	Colluvium	none	Brown Grey	40	60	0	Good to Mod	None	StreamSed	Tyler Legg	EUK-17029-YT
Moderate	Brown	0-10	Willows	Colluvium	none	Brown Grey	40	60	0	Good	None	StreamSed	Tyler Legg	EUK-17029-YT
Moderate	Brown	0-10	Willows	Colluvium	none	Brown Grey	20	80	0	Good	None	StreamSed	Tyler Legg	EUK-17029-YT
Moderate	Brown	0-10	Willows	Colluvium	none	Brown Grey	50	50	0	Good	None	StreamSed	Tyler Legg	EUK-17029-YT
Moderate	Brown	0-10	Willows	Colluvium	none	Brown Grey	40	60	0	Good	None	StreamSed	Tyler Legg	EUK-17029-YT
Moderate	Brown	0-10	Willows	Colluvium	none	Brown Grey	20	80	0	Good to Mod	None	StreamSed	Tyler Legg	EUK-17029-YT
Moderate	Brown	0-10	Willows	Colluvium	none	Brown Grey	30	70	0	Good	None	StreamSed	Tyler Legg	EUK-17029-YT
Moderate	Brown	0-10	Willows	Colluvium	none	Brown Grey	30	70	0	Good	None	StreamSed	Tyler Legg	EUK-17029-YT

PropertyName	UTMZone	QAQC	DateNoTime		Au PPB	Pt PPB	Pd PPB	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM
SHEBA	7N		10/17/09	1891988	<2	<3	3	<1	19	5	52	<0.3	8	3	122	1.58	2	<2	7	<0.5	<3	<3	32
SHEBA	7N		10/17/09	1891989	<2	<3	<2	<1	20	<3	46	<0.3	8	4	146	1.5	3	<2	7	<0.5	<3	<3	32
SHEBA	7N		10/17/09	1891990	17	3	23	<1	15	7	38	<0.3	7	3	130	1.57	6	3	10	<0.5	<3	<3	24
SHEBA	7N		10/17/09	1891991	7	<3	<2	<1	16	7	45	<0.3	11	4	119	1.96	8	<2	11	<0.5	<3	5	32
SHEBA	7N		10/17/09	1891992	3	<3	3	<1	68	5	88	<0.3	30	15	576	3.5	4	2	20	<0.5	<3	<3	85
SHEBA	7N		10/17/09	1891993	8	<3	3	<1	29	4	50	<0.3	12	6	217	2.04	3	<2	10	<0.5	<3	<3	46
SHEBA	7N		10/17/09	1891994	12	<3	<2	<1	24	3	41	<0.3	13	7	240	1.98	5	3	18	<0.5	<3	<3	45
SHEBA	7N		10/17/09	1891995	2	<3	3	<1	28	5	55	<0.3	16	8	255	2.23	4	2	22	<0.5	<3	<3	48
SHEBA	7N		10/17/09	1891996	6	<3	2	<1	25	6	60	<0.3	14	7	250	2.24	4	2	15	<0.5	<3	3	43
SHEBA	7N		10/17/09	1891997	9	<3	<2	<1	8	4	30	<0.3	7	3	128	1.35	<2	4	10	<0.5	<3	<3	28
SHEBA	7N		10/17/09	1891998	<2	<3	3	<1	15	7	31	<0.3	8	7	343	1.87	6	4	11	<0.5	<3	<3	29
SHEBA	7N		10/17/09	1891999	5	<3	<2	<1	12	5	37	<0.3	11	5	229	1.6	5	4	18	<0.5	<3	<3	28
SHEBA	7N		10/17/09	1892201	<2	<3	<2	<1	10	4	28	<0.3	8	5	221	1.35	5	3	13	<0.5	<3	<3	22
SHEBA	7N		11/17/09	1892202	9	<3	<2	<1	10	7	43	<0.3	13	6	205	1.76	7	5	25	<0.5	<3	<3	35
SHEBA	7N		11/17/09	1892203	<2	<3	<2	1	15	5	39	<0.3	13	7	296	1.97	7	4	24	<0.5	<3	<3	35
SHEBA	7N		11/17/09	1892204	5	<3	3	1	19	9	49	<0.3	14	6	233	2.09	5	12	30	<0.5	<3	<3	30
SHEBA	7N		11/17/09	1892205	4	<3	<2	<1	16	4	48	<0.3	16	7	288	1.87	7	4	30	<0.5	<3	<3	32
SHEBA	7N		11/17/09	1892206	2	<3	<2	<1	12	6	37	<0.3	12	5	259	1.64	7	3	22	<0.5	<3	<3	28
SHEBA	7N		11/17/09	1892207	<2	<3	<2	<1	12	5	38	<0.3	12	6	273	1.68	8	4	22	<0.5	<3	<3	29
SHEBA	7N		11/17/09	1892208	3	<3	<2	<1	15	6	47	<0.3	15	6	307	1.96	6	4	27	<0.5	<3	<3	33
SHEBA	7N		09/14/17	1892209	4	<3	3	<1	16	6	54	<0.3	16	8	308	2.13	6	2	20	<0.5	<3	<3	40
SHEBA	7N		09/14/17	1892210	2	<3	<2	<1	11	9	52	<0.3	19	6	196	2.07	6	<2	16	<0.5	<3	<3	38
SHEBA	7N		09/14/17	1892211	4	<3	<2	<1	17	6	52	<0.3	15	8	378	2.21	4	2	20	<0.5	<3	<3	41
SHEBA	7N		09/14/17	1892212	7	<3	<2	<1	16	5	50	<0.3	15	8	654	2.07	4	4	21	<0.5	<3	<3	39
SHEBA	7N		09/14/17	1892213	50	<3	<2	<1	11	4	41	<0.3	13	6	343	1.7	3	4	17	<0.5	<3	<3	33
SHEBA	7N		09/14/17	1892214	5	<3	3	<1	7	3	31	<0.3	11	5	189	1.23	<2	3	11	<0.5	<3	<3	24
SHEBA	7N		09/14/17	1892215	3	<3	<2	<1	16	5	46	<0.3	13	9	350	2.46	5	4	18	<0.5	<3	<3	41
SHEBA	7N		09/14/17	1892216	<2	<3	<2	<1	13	3	27	<0.3	9	4	143	1.38	4	3	11	<0.5	<3	<3	31
SHEBA	7N		09/14/17	1892217	4	<3	2	<1	18	7	69	<0.3	26	10	530	2.37	4	2	19	<0.5	<3	<3	44
SHEBA	7N		09/14/17	1892218	4	<3	4	<1	16	6	61	<0.3	20	10	504	2.31	5	3	16	<0.5	<3	<3	48
SHEBA	7N		09/14/17	1892219	3	<3	3	<1	7	5	45	<0.3	18	6	236	1.58	2	3	11	<0.5	<3	<3	29
SHEBA	7N		09/14/17	1892220	5	<3	4	<1	14	7	69	<0.3	34	10	485	2.34	3	3	20	<0.5	<3	<3	41
SHEBA	7N	FieldDuplicate	09/14/17	1892221	4	<3	5	<1	14	6	68	<0.3	35	10	487	2.31	4	3	20	<0.5	<3	<3	41
SHEBA	7N		09/14/17	1892222	3	<3	2	<1	10	7	57	<0.3	25	9	542	2.22	4	4	15	<0.5	<3	<3	38
SHEBA	7N		09/14/17	1892223	3	<3	<2	<1	8	7	50	<0.3	19	9	463	2.21	5	5	12	<0.5	<3	<3	35
SHEBA	7N		09/14/17	1892224	4	<3	4	<1	15	12	74	<0.3	28	12	630	2.43	4	4	20	<0.5	<3	<3	39
SHEBA	7N		09/14/17	1892225	3	<3	<2	<1	12	7	53	<0.3	16	6	205	1.86	6	4	20	<0.5	<3	<3	35
SHEBA	7N		09/14/17	1892226	4	<3	<2	<1	8	6	43	<0.3	16	5	145	1.67	5	3	15	<0.5	<3	<3	32
SHEBA	7N		09/14/17	1892268	4	<3	<2	<1	11	6	46	<0.3	14	6	281	1.7	3	3	17	<0.5	<3	<3	31
SHEBA	7N		09/14/17	1892269	6	<3	3	<1	20	7	65	<0.3	20	9	563	2.35	5	3	25	<0.5	<3	<3	44
SHEBA	7N		09/14/17	1892270	6	3	2	<1	17	7	56	<0.3	17	8	310	2.01	7	3	23	<0.5	<3	<3	36
SHEBA	7N		09/14/17	1892271	3	<3	2	<1	16	8	69	<0.3	19	9	374	2.01	7	5	20	<0.5	<3	<3	34
SHEBA	7N		09/14/17	1892272	6	<3	2	<1	16	9	59	<0.3	18	9	393	1.98	8	5	18	<0.5	<3	<3	34
SHEBA	7N		09/14/17	1892273	5	<3	6	<1	18	8	66	<0.3	19	8	283	2.11	6	4	26	<0.5	<3	<3	37
SHEBA	7N		09/14/17	1892274	5	<3	2	<1	19	8	65	<0.3	20	8	310	2.11	7	4	27	<0.5	<3	<3	37
SHEBA	7N		09/14/17	1892275	6	<3	3	<1	20	11	90	<0.3	23	14	863	2.27	8	4	24	<0.5	<3	<3	35

SHEBA	7N		09/14/17	1892276	4	<3	<2	<1	13	6	37	<0.3	18	7	248	1.58	4	3	11	<0.5	<3	<3	28
SHEBA	7N		09/14/17	1892277	5	<3	4	1	18	13	89	<0.3	24	13	676	2.44	11	4	20	<0.5	<3	<3	37
SHEBA	7N		09/14/17	1892278	6	<3	3	<1	21	8	70	<0.3	21	11	951	2.87	10	3	27	<0.5	<3	<3	46
SHEBA	7N		09/14/17	1892279	5	4	3	<1	20	7	71	<0.3	21	9	595	2.35	7	3	29	<0.5	<3	<3	42
SHEBA	7N		09/14/17	1892280	6	<3	6	<1	18	7	64	<0.3	19	9	549	2.25	6	3	27	<0.5	<3	<3	40
SHEBA	7N	FieldDuplicate	09/14/17	1892281	6	<3	<2	<1	17	7	60	<0.3	18	8	347	2.09	5	3	26	<0.5	<3	<3	38
SHEBA	7N		09/14/17	1892282	4	<3	5	<1	15	6	56	<0.3	17	7	258	1.95	5	3	26	<0.5	<3	<3	35
SHEBA	7N		09/14/17	1892283	10	<3	<2	<1	14	6	54	<0.3	17	7	244	2.07	5	4	28	<0.5	<3	<3	42
SHEBA	7N		09/14/17	1892284	6	<3	<2	<1	19	7	62	<0.3	19	9	396	2.2	7	3	27	<0.5	<3	<3	39
SHEBA	7N		09/14/17	1892285	11	<3	<2	<1	16	6	53	<0.3	16	7	371	2.05	8	2	24	<0.5	<3	<3	36
SHEBA	7N		10/17/09	1892421	7	<3	3	<1	6	9	42	<0.3	6	2	136	1.31	2	5	9	<0.5	<3	<3	17
SHEBA	7N	FieldDuplicate	10/17/09	1892422	5	<3	<2	<1	6	8	38	<0.3	5	2	119	1.16	2	5	8	<0.5	<3	<3	16
SHEBA	7N		10/17/09	1892423	6	<3	5	<1	7	8	34	<0.3	5	2	84	0.96	2	2	8	<0.5	<3	<3	15
SHEBA	7N		10/17/09	1892424	3	<3	<2	<1	41	5	69	<0.3	12	7	247	2.62	3	3	9	<0.5	<3	<3	52
SHEBA	7N		10/17/09	1892425	3	<3	9	<1	51	5	89	<0.3	23	10	547	3.13	3	3	11	<0.5	<3	<3	61
SHEBA	7N		10/17/09	1892426	5	<3	4	1	53	5	94	<0.3	25	10	547	3.29	3	4	12	<0.5	<3	<3	65
SHEBA	7N		10/17/09	1892427	4	<3	3	<1	24	6	53	<0.3	15	8	287	2.21	5	5	20	<0.5	<3	<3	39
SHEBA	7N		10/17/09	1892428	2	<3	2	<1	18	5	44	<0.3	12	6	295	1.92	5	4	18	<0.5	<3	<3	33
SHEBA	7N		10/17/09	1892429	9	<3	<2	<1	13	5	41	<0.3	13	6	231	1.65	4	5	20	<0.5	<3	<3	28
SHEBA	7N		10/17/09	1892430	5	<3	4	<1	10	4	37	<0.3	11	5	207	1.46	3	5	18	<0.5	<3	<3	26
SHEBA	7N	FieldDuplicate	10/17/09	1892431	8	<3	<2	<1	9	4	36	<0.3	11	5	201	1.41	4	5	17	<0.5	<3	<3	25

Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	S %	Hg PPM	Tl PPM	Ga PPM	Sc PPM
0.12	0.036	9	16	0.46	247	0.065	<20	0.86	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
0.14	0.042	8	15	0.49	256	0.061	<20	0.8	<0.01	0.16	<2	<0.05	<1	<5	<5	<5
0.15	0.054	16	13	0.37	251	0.063	<20	0.87	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
0.14	0.048	11	15	0.34	226	0.039	<20	1.01	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
0.39	0.051	17	59	1.37	882	0.139	<20	2.03	0.01	0.41	<2	0.06	<1	<5	7	8
0.21	0.059	10	23	0.64	313	0.069	<20	1.04	0.01	0.18	<2	<0.05	<1	<5	<5	<5
0.37	0.059	11	18	0.61	319	0.077	<20	1.03	0.01	0.15	<2	<0.05	<1	<5	<5	<5
0.42	0.059	11	22	0.68	360	0.082	<20	1.2	0.01	0.16	<2	<0.05	<1	<5	<5	<5
0.32	0.059	11	22	0.64	350	0.077	<20	1.07	0.01	0.22	<2	<0.05	<1	<5	<5	<5
0.24	0.079	18	13	0.38	178	0.056	<20	0.77	<0.01	0.12	<2	<0.05	<1	<5	<5	<5
0.25	0.057	10	11	0.34	238	0.051	<20	0.61	<0.01	0.15	<2	<0.05	<1	<5	<5	<5
0.35	0.054	14	14	0.39	241	0.059	<20	0.8	<0.01	0.11	<2	<0.05	<1	<5	<5	<5
0.27	0.059	11	11	0.31	185	0.043	<20	0.6	<0.01	0.1	<2	<0.05	<1	<5	<5	<5
0.45	0.086	22	17	0.37	305	0.057	<20	0.84	0.01	0.07	<2	<0.05	<1	<5	<5	<5
0.35	0.062	17	17	0.39	306	0.066	<20	1.02	0.01	0.1	<2	<0.05	<1	<5	<5	<5
0.44	0.038	46	19	0.42	439	0.072	<20	1.22	<0.01	0.19	<2	<0.05	<1	<5	<5	<5
0.54	0.068	13	17	0.45	242	0.051	<20	0.88	0.01	0.08	<2	<0.05	<1	<5	<5	<5
0.35	0.059	15	15	0.33	228	0.051	<20	0.79	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
0.34	0.054	15	14	0.35	228	0.052	<20	0.8	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
0.4	0.064	21	18	0.41	291	0.06	<20	0.99	0.01	0.09	<2	<0.05	<1	<5	<5	<5
0.36	0.069	12	24	0.54	284	0.063	<20	1.11	0.01	0.1	<2	<0.05	<1	<5	<5	<5
0.3	0.06	11	32	0.5	318	0.072	<20	1.18	<0.01	0.11	<2	<0.05	<1	<5	<5	<5
0.44	0.079	11	27	0.61	325	0.072	<20	1.17	<0.01	0.15	<2	<0.05	<1	<5	<5	<5
0.49	0.077	12	25	0.59	337	0.073	<20	1.13	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
0.45	0.095	10	23	0.51	257	0.062	<20	0.94	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
0.38	0.096	7	24	0.4	182	0.053	<20	0.78	<0.01	0.1	3	<0.05	<1	<5	<5	<5
0.43	0.078	11	22	0.56	294	0.068	<20	1.09	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
0.31	0.066	8	17	0.36	166	0.051	<20	0.75	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
0.54	0.07	13	53	0.86	495	0.102	<20	1.54	<0.01	0.26	<2	<0.05	<1	<5	<5	<5
0.53	0.076	11	54	0.87	475	0.1	<20	1.44	<0.01	0.29	<2	<0.05	<1	<5	<5	<5
0.38	0.074	7	40	0.58	254	0.075	<20	1.06	<0.01	0.17	4	<0.05	<1	<5	<5	<5
0.57	0.075	16	57	0.84	366	0.1	<20	1.48	<0.01	0.29	<2	<0.05	<1	<5	<5	<5
0.57	0.076	17	58	0.83	367	0.1	<20	1.53	<0.01	0.28	2	<0.05	<1	<5	<5	<5
0.37	0.083	15	56	0.77	413	0.108	<20	1.4	<0.01	0.21	<2	<0.05	<1	<5	<5	<5
0.33	0.096	11	42	0.61	319	0.094	<20	1.07	<0.01	0.21	<2	<0.05	<1	<5	<5	<5
0.58	0.067	24	49	0.74	453	0.091	<20	1.52	<0.01	0.2	<2	<0.05	<1	<5	<5	<5
0.41	0.071	12	22	0.46	317	0.054	<20	0.99	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
0.33	0.077	10	29	0.43	252	0.058	<20	1.01	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
0.41	0.084	10	23	0.48	228	0.061	<20	0.99	<0.01	0.09	<2	<0.05	<1	<5	<5	<5
0.48	0.065	14	31	0.67	379	0.077	<20	1.34	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
0.43	0.075	12	20	0.47	267	0.047	<20	0.96	0.01	0.06	<2	<0.05	<1	<5	<5	<5
0.42	0.064	17	26	0.48	307	0.06	<20	1.07	<0.01	0.11	<2	<0.05	<1	<5	<5	<5
0.4	0.078	16	26	0.43	291	0.058	<20	0.98	<0.01	0.1	<2	<0.05	<1	<5	<5	<5
0.53	0.076	13	25	0.54	302	0.054	<20	1.09	0.01	0.07	6	<0.05	<1	<5	<5	<5
0.57	0.08	14	26	0.57	308	0.058	<20	1.01	0.01	0.09	<2	<0.05	<1	<5	<5	<5
0.53	0.081	28	33	0.55	338	0.063	<20	1.23	<0.01	0.13	<2	<0.05	<1	<5	<5	<5

0.36	0.096	10	41	0.42	192	0.043	<20	0.75	<0.01	0.07	<2	<0.05	<1	<5	<5	<5	
0.47	0.088	26	39	0.55	337	0.072	<20	1.18	<0.01	0.15	<2	<0.05	<1	<5	<5	<5	
0.51	0.086	18	31	0.62	387	0.069	<20	1.33	0.01	0.12	<2	<0.05	<1	<5	<5	<5	
0.56	0.075	15	26	0.64	325	0.063	<20	1.22	0.01	0.1	<2	<0.05	<1	<5	<5	<5	
0.52	0.074	15	25	0.58	323	0.063	<20	1.14	0.01	0.09	<2	<0.05	<1	<5	<5	<5	
0.51	0.069	14	22	0.55	297	0.06	<20	1.12	0.01	0.08	<2	<0.05	<1	<5	<5	<5	
0.51	0.078	13	20	0.53	254	0.055	<20	1	0.01	0.07	<2	<0.05	<1	<5	<5	<5	
0.62	0.087	16	22	0.54	409	0.063	<20	0.93	0.02	0.07	<2	<0.05	<1	<5	<5	<5	
0.55	0.072	14	23	0.58	298	0.06	<20	1.13	0.01	0.08	<2	<0.05	<1	<5	<5	<5	
0.47	0.08	12	19	0.46	259	0.048	<20	0.94	0.01	0.06	<2	<0.05	<1	<5	<5	<5	
0.13	0.044	17	12	0.4	215	0.075	<20	0.81	<0.01	0.19	<2	<0.05	<1	<5	<5	<5	
0.14	0.044	14	10	0.36	194	0.069	<20	0.73	<0.01	0.16	<2	<0.05	<1	<5	<5	<5	
0.12	0.036	15	9	0.25	134	0.046	<20	0.6	<0.01	0.08	<2	<0.05	<1	<5	<5	<5	
0.16	0.052	11	22	0.63	358	0.078	<20	1.07	<0.01	0.27	<2	<0.05	<1	<5	<5		6
0.18	0.056	11	41	0.79	494	0.089	<20	1.2	<0.01	0.42	<2	<0.05	<1	<5	<5		8
0.24	0.053	11	44	0.9	520	0.102	<20	1.37	<0.01	0.45	<2	<0.05	<1	<5	<5		8
0.41	0.051	12	20	0.61	354	0.072	<20	1.04	<0.01	0.2	<2	<0.05	<1	<5	<5	<5	
0.38	0.062	12	17	0.49	282	0.063	<20	0.9	<0.01	0.15	<2	<0.05	<1	<5	<5	<5	
0.39	0.061	14	14	0.42	250	0.054	<20	0.79	<0.01	0.1	<2	<0.05	<1	<5	<5	<5	
0.35	0.065	14	13	0.37	233	0.049	<20	0.71	<0.01	0.09	<2	<0.05	<1	<5	<5	<5	
0.36	0.069	13	14	0.35	224	0.048	<20	0.68	<0.01	0.08	<2	<0.05	<1	<5	<5	<5	

Appendix IV: 2017 Rock Sample Geochemical Data

Tag number	Easting	Northing	Date	Sampled Material	Sample Type	Width (m)
1909004	614629.2934	7046668.397	2017-09-10T12:36:59-07:00	Boulder	Grab	
1909005	611479.7987	7048725.723	2017-09-16T09:59:35-07:00	Rubblecrop	Grab	
1909006	612075.7445	7048527.096	2017-09-16T11:26:06-07:00	Boulder	Grab	
1909007	611488.1018	7048687.095	2017-09-16T14:33:28-07:00	Rubblecrop	Grab	
1909008	611877.1542	7048051.968	2017-09-16T16:09:45-07:00	Boulder	Grab	
1909010	611833	7048117	2017-09-17T10:47:49-07:00	Boulder	Grab	
1909011	611460	7048857	2017-09-17T13:54:32-07:00	Boulder	Grab	
1909112	614334.3934	7045194.67	2017-09-10T10:46:55-07:00	Bedrock	Grab	
1909113	614995.8126	7046212.438	2017-09-11T10:26:37-07:00	Boulder	Grab	
1909114	613549.7841	7045949.794	2017-09-12T12:46:28-07:00	Boulder	Grab	
1909115	613583.2221	7045810.119	2017-09-12T13:24:32-07:00	Boulder	Grab	
1909116	613642.8625	7045701.099	2017-09-12T13:47:45-07:00	Boulder	Grab	
1909117	614053.0216	7045454.149	2017-09-12T14:39:23-07:00	Boulder	Grab	
1909118	614296.5136	7045540.62	2017-09-12T15:09:59-07:00	Boulder	Grab	
1909119	614296.5136	7045540.62	2017-09-12T15:11:30-07:00	Boulder	Grab	
1909120	612670.1081	7046469.181	2017-09-14T10:01:13-07:00	Boulder	Grab	
1909121	612668.2568	7046475.439	2017-09-14T10:13:40-07:00	Boulder	Grab	
1909122	613459.6763	7045951.101	2017-09-14T15:38:19-07:00	Boulder	Grab	
1909123	611923.3211	7047040.952	2017-09-15T09:21:12-07:00	Boulder	Grab	
1909124	611735.2037	7046971.919	2017-09-15T09:49:14-07:00	Boulder	Grab	
1909125	612139.8469	7046999.381	2017-09-15T15:56:45-07:00	Boulder	Grab	
1909126	611682.8198	7046769.986	2017-09-15T16:42:28-07:00	Boulder	Grab	
1909127	611876.3183	7048045.534	2017-09-17T10:09:02-07:00	Boulder	CompGrab	
1909128	611496.949	7048786.48	2017-09-17T13:19:15-07:00	Float	Grab	
1909129	611462.3553	7048829.366	2017-09-17T13:41:30-07:00	Boulder	Grab	
1909130	612046.8225	7048383.65	2017-09-17T14:51:16-07:00	Boulder	Grab	
1909159	616623.5085	7045792.093	2017-09-11T15:40:54-07:00	Rubblecrop	grab	
1909160	614629.7291	7047524.144	2017-09-12T13:03:40-07:00	Boulder	Chip	10 cm
1909161	613017.2841	7049054.421	2017-09-16T13:05:45-07:00	Bedrock	Chip	15 cm
1909162	613100.5744	7049178.481	2017-09-16T14:29:11-07:00	Float	Grab	
1909163	611877.8541	7049292.26	2017-09-16T15:44:56-07:00	Float	Grab	
1909164	611652.6852	7048423.481	2017-09-16T17:13:20-07:00	Rubblecrop	Grab	
1909165	611655.6268	7048347.999	2017-09-16T17:28:57-07:00	Rubblecrop	Grab	
1909166	611905.7664	7045566.453	2017-09-17T10:17:36-07:00	Rubblecrop	Grab	
1909167	611472.282	7045179.132	2017-09-17T11:34:18-07:00	Bedrock	Chip	20cm
1909168	611479.6494	7045174.029	2017-09-17T11:55:20-07:00	Bedrock	Chip	20cm

Description	Au PPB	Mo PPM
sulfides >1cm pyrite (arsenopyrite) in an altered schist chlorite Muscovite, magnetite	2	<1
with oxidation hematite limonite from 2 separate boulders. some quartz veining	<2	7
alteration of quartz vein	<2	<1
metaseds? with oxidation	<2	11
boulders cover area 100s meter scale	<2	4
brecciated veining in a muscovite quartzite schist	<2	7
bt-chlt-schist w/ abundant vuggy, oxidized qtz veins (.5-1.5cm thick)	20	16
grab, quartz veins with vugs and fe oxide staining, bedrock	<2	<1
ms-bt foliated quartzite with 10mm qtz veins with iron oxide staining and probable weathered out pyrite	<2	<1
quartz veins with some cavities on sides of veins in ms-bt- qtz schist, lots of Fe oxide staining	<2	<1
quartz vein with py 0.5 mm in pyritic ms-qtz-kspar phyllite	<2	5
quartz vein on surface of sample with extensive limonite and vugs, probably weathered sulphides appears to be numerous secondary fractures, possible potassic alteration (?)	<2	<1
quartz vein with vugs up to 8 mm possible carbonate (no) in vugs and possible epidote staining	<2	<1
quartz vein with weathered out sulphides Fe- oxide staining	<2	<1
quartz vein with trace pyrite fe-oxide staining	<2	<1
quartz epidote veins, xtal size up to 10mm, potassic (? pink in colour) selveges, 2 veins crosscut each other at at 40-60 degrees, grab sample of boulder	<2	<1
banded qtz-chl veins with vugs with associated mn staining, possible minor epidote alteration, grab sample from boulder	2	<1
quartz vein in schist with associated vugs, fe-oxide (carb?) staining on internal vein fractures	<2	<1
grab sample from boulder of pervasively limonitically altered rock (possibly qtz vein or granitoid, difficult to tell protolith) possible oxidized veins of sulphides cross cutting sample, some mn staining	<2	<1
vuggy quartz with pervasive limonite and scorodite (? maybe malachite or other copper weathering product), mn staining, hosted in granitoid (?) boulder grab sample	4	<1
vuggy quartz with extensive limonite and mn-oxides boulder grab sample	<2	1
quartz vein with chlorite, fe-oxide staining possible carb on fractures (no). boulder grab	4	<1
vuggy gossanous (limonite and hematite) sample of qtz vein (?) mn oxide staining abundant	<2	3
highly altered quartzite & muscovite schist. Gossanous with small, discontinuous, cross-cutting manganese oxide veins. some vuggy areas.	<2	9
vuggy quartz vein with limonite in vugs and on fracture planes, small amount of mn-oxide	268	9
vuggy quartz vein with limonite and mn-oxide	2	2
sub crop, fragmented qzvn in qtzmuscschist, limonitic, fracture healing filled by hematite?	<2	<1
sub crop boulder, qtzmuscschist, patchy limonite and hematite, adjacent aspy in veinlet	<2	<1
outcrop, sericitic qtzbtschist, blebs of hematite, fol.232_08	<2	<1
float near outcrop, chloritic qtzbtschist	3	<1
sub crop, qtzmuscschist, blebs of hematite	<2	<1
Sub crop qtzbtschist, hematite in blebs and as joint filling, sericitic	<2	13
rubblecrop, qtzmuscschist, aspy, hematite	2	4
burns slope failure, sub crop ,qtzt rich in limonite, hematite fills fractures	<2	<1
outcrop, qzvn, shows aggregate, vugs (hematite), limonite, in fold	<2	<1
outcrop, xcuttinrgg qzvn, 15cm wide, 065_90, aggregate, fractured, hematite filling	<2	<1

Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	S %
73	<3	214	1.3	23	19	674	4.9	3	<2	7	<0.5	<3	<3	143	0.21	0.048	3	50	2.34	773	0.156	<20	2.61	0.07	0.78	<2	0.61
19	48	90	<0.3	23	4	165	2.01	102	3	17	<0.5	17	<3	24	0.02	0.016	4	17	<0.01	707	0.002	<20	0.26	<0.01	0.07	<2	<0.05
2	12	30	<0.3	3	1	135	2.38	15	8	49	<0.5	<3	<3	15	0.03	0.015	15	11	0.01	217	0.003	<20	0.51	<0.01	0.04	<2	<0.05
26	54	97	<0.3	23	4	239	4.32	121	3	15	<0.5	26	<3	44	0.04	0.034	6	19	0.01	587	0.002	<20	0.26	<0.01	0.09	<2	<0.05
95	8	9	<0.3	3	<1	37	2.64	493	<2	15	<0.5	114	<3	5	<0.01	0.015	2	8	<0.01	62	0.001	<20	0.18	<0.01	0.05	<2	<0.05
97	12	37	<0.3	6	6	81	3.46	79	<2	15	<0.5	30	<3	44	<0.01	0.036	3	23	<0.01	142	0.002	<20	0.31	<0.01	0.06	<2	<0.05
20	30	15	7.1	3	<1	27	1.09	46	<2	36	<0.5	13	<3	36	0.02	0.094	3	21	<0.01	808	0.001	<20	0.11	<0.01	0.04	<2	<0.05
5	138	11	0.5	1	<1	24	0.32	<2	<2	2	<0.5	<3	6	<1	<0.01	0.002	2	13	<0.01	107	0.001	<20	0.08	0.03	0.07	<2	<0.05
2	<3	8	<0.3	<1	<1	57	0.42	<2	15	5	<0.5	<3	<3	2	0.02	0.006	26	4	0.16	117	0.023	23	0.33	0.07	0.22	<2	<0.05
8	<3	15	<0.3	3	7	372	0.91	<2	12	4	<0.5	<3	<3	9	0.09	0.025	2	7	0.22	299	0.038	<20	0.68	0.03	0.34	<2	<0.05
17	<3	9	<0.3	<1	<1	34	0.87	<2	12	5	<0.5	<3	<3	<1	0.02	0.01	16	5	0.06	252	0.011	21	0.28	0.05	0.22	<2	0.15
28	<3	25	<0.3	2	3	211	1.36	<2	20	12	<0.5	<3	<3	7	0.03	0.015	8	7	0.24	995	0.07	22	0.55	0.04	0.46	<2	<0.05
<1	<3	<1	<0.3	<1	<1	25	0.25	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1	16	<0.01	8	<0.001	<20	0.01	<0.01	<0.01	<2	<0.05
13	<3	14	<0.3	<1	<1	44	0.76	<2	<2	<1	<0.5	<3	<3	<1	<0.01	0.008	<1	21	<0.01	37	<0.001	<20	0.04	<0.01	0.03	<2	<0.05
2	<3	<1	<0.3	<1	<1	31	0.39	<2	<2	<1	<0.5	<3	<3	<1	<0.01	0.002	<1	19	<0.01	10	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05
89	<3	8	<0.3	1	2	90	0.71	<2	9	10	<0.5	<3	<3	13	0.21	0.018	9	8	0.15	112	0.022	<20	0.45	0.05	0.17	<2	<0.05
29	<3	12	<0.3	15	6	339	1.2	<2	<2	52	<0.5	<3	<3	42	0.95	0.131	1	11	0.38	42	0.073	<20	0.78	0.07	0.04	<2	<0.05
11	<3	11	<0.3	1	2	198	0.67	<2	16	2	<0.5	<3	<3	3	0.04	0.011	3	6	0.1	133	0.022	<20	0.39	0.04	0.25	<2	<0.05
52	9	57	<0.3	56	21	2138	2.86	2	8	3	<0.5	<3	4	51	0.06	0.052	35	35	0.04	509	0.006	<20	0.59	<0.01	0.1	<2	<0.05
36	<3	68	<0.3	322	33	490	6.23	36	<2	3	<0.5	33	<3	32	<0.01	0.012	1	346	0.01	282	0.002	<20	0.14	<0.01	0.01	4	<0.05
7	<3	51	<0.3	11	12	1380	3.1	189	4	5	<0.5	8	<3	41	0.01	0.023	12	19	0.02	627	0.002	<20	0.41	<0.01	0.08	<2	<0.05
16	<3	1	<0.3	10	6	48	0.55	<2	<2	<1	<0.5	<3	<3	3	0.03	0.014	<1	23	0.04	25	0.002	<20	0.06	<0.01	0.01	<2	<0.05
59	42	40	<0.3	8	7	472	2.33	37	<2	18	<0.5	9	<3	12	<0.01	0.027	3	15	<0.01	113	0.001	<20	0.14	<0.01	0.05	<2	<0.05
67	<3	137	0.4	31	8	506	11.14	82	<2	30	<0.5	36	<3	124	0.02	0.039	6	44	0.01	3340	0.002	<20	0.43	<0.01	0.02	<2	0.07
17	1204	15	>100.0	3	<1	35	1.38	70	<2	34	<0.5	44	<3	14	0.01	0.06	3	21	<0.01	503	0.001	<20	0.07	<0.01	0.06	<2	0.14
27	6	15	1.3	4	1	155	2.04	323	<2	12	<0.5	34	<3	16	<0.01	0.009	4	16	<0.01	99	0.001	<20	0.12	<0.01	0.05	<2	<0.05
10	<3	32	<0.3	<1	<1	250	1.42	<2	29	5	<0.5	<3	<3	3	0.03	0.012	16	5	0.22	234	0.055	<20	0.53	0.04	0.46	<2	<0.05
12	<3	14	<0.3	1	2	199	0.98	<2	15	8	<0.5	<3	<3	7	0.13	0.019	11	6	0.17	175	0.069	<20	0.51	0.05	0.3	<2	<0.05
25	<3	35	<0.3	16	12	302	2.03	2	4	27	<0.5	<3	<3	50	0.92	0.081	6	98	1.26	820	0.155	<20	1.56	0.11	0.64	<2	<0.05
35	<3	19	0.6	55	12	273	1.22	32	9	19	<0.5	4	<3	50	0.54	0.04	11	262	1.29	457	0.103	<20	1.09	0.05	0.64	<2	<0.05
<1	10	6	<0.3	<1	<1	20	0.58	10	17	3	<0.5	<3	<3	<1	<0.01	0.012	28	4	<0.01	40	0.001	<20	0.49	<0.01	0.12	<2	<0.05
16	54	18	<0.3	4	<1	42	1.04	41	3	17	<0.5	18	<3	31	0.02	0.031	9	13	0.01	875	0.001	<20	0.16	<0.01	0.09	<2	<0.05
96	<3	222	<0.3	56	13	676	9.54	648	3	14	<0.5	58	<3	42	<0.01	0.109	7	24	<0.01	219	0.003	<20	0.43	<0.01	0.1	<2	<0.05
3	6	49	<0.3	8	3	404	1.9	5	15	14	<0.5	<3	<3	30	<0.01	0.006	13	24	0.03	606	0.006	<20	0.58	<0.01	0.05	<2	<0.05
4	<3	<1	<0.3	2	<1	65	0.36	<2	<2	<1	<0.5	<3	<3	1	0.02	0.001	<1	27	<0.01	7	<0.001	<20	0.02	<0.01	<0.01	<2	<0.05
37	<3	<1	<0.3	11	63	32	2.03	2	<2	<1	<0.5	<3	<3	5	<0.01	0.011	<1	32	0.01	31	<0.001	<20	0.04	<0.01	<0.01	<2	<0.05

Hg PPM	Tl PPM	Ga PPM	Sc PPM	KG	Sampler
<1	<5	6	17	0.91	TL
<1	<5	<5	<5	1.26	TL
<1	<5	<5	5	0.86	TL
<1	<5	<5	7	1.88	TL
4	<5	<5	<5	0.45	TL
<1	<5	<5	<5	0.68	TL
<1	<5	<5	<5	1.1	RL
<1	<5	<5	<5	0.44	NB
<1	<5	<5	<5	0.54	NB
<1	<5	<5	<5	0.33	NB
<1	<5	<5	<5	0.43	NB
<1	<5	<5	<5	0.39	NB
<1	<5	<5	<5	0.73	NB
<1	<5	<5	<5	0.34	NB
<1	<5	<5	<5	0.4	NB
<1	<5	<5	<5	0.61	NB
<1	<5	<5	<5	0.41	NB
<1	<5	<5	<5	0.37	NB
<1	<5	<5	12	0.54	NB
3	<5	5	<5	0.53	NB
<1	<5	<5	6	0.41	NB
<1	<5	<5	<5	0.33	NB
1	<5	<5	<5	0.54	NB
1	<5	<5	37	0.72	RL
<1	<5	<5	<5	0.36	NB
<1	<5	<5	<5	0.56	NB
<1	<5	<5	<5	0.69	HM
<1	<5	<5	<5	0.51	HM
<1	<5	<5	<5	0.42	HM
<1	<5	<5	<5	0.42	HM
<1	<5	<5	<5	0.48	HM
<1	<5	<5	<5	0.43	HM
4	<5	<5	6	0.78	HM
<1	<5	<5	5	0.83	HM
<1	<5	<5	<5	1	HM
<1	<5	<5	<5	0.65	HM

Appendix V: Assay Certificates

MINERAL LABORATORIES
Canada

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

Submitted By:	Carl Schulze
Receiving Lab:	Canada-Whitehorse
Received:	September 19, 2017
Report Date:	October 18, 2017
Page:	1 of 12

CERTIFICATE OF ANALYSIS WHI17000891.1

CLIENT JOB INFORMATION

Project:	EUK-17029-YT
Shipment ID:	
P.O. Number	EUK-17029-YT
Number of Samples:	320

SAMPLE DISPOSAL

STOR-PLP	Store After 90 days Invoice for Storage
STOR-RJT-SOIL	Store Soil Reject - RJSV Charges Apply

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	320	Dry at 60C			WHI
SS80	320	Dry at 60C sieve 100g to -80 mesh			VAN
SVRJT	320	Save all or part of Soil Reject			WHI
FA330	320	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
EN002	320	Environmental disposal charge-Fire assay lead waste			VAN
AQ300	320	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN
SHP01	320	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

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

CC: Nigel Bocking

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Production Manager

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 VERITAS MINERAL LABORATORIES Canada

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PHONE (604) 253-3158

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Project: EUK-17029-YT
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CERTIFICATE OF ANALYSIS WHI17000891.1

	Method	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1891799	Soil	6	<3	<2	<1	31	10	70	<0.3	14	7	344	2.62	5	3	14	<0.5	<3	<3	52	0.27
1891800	Soil	2	<3	<2	<1	9	7	54	<0.3	13	9	680	2.87	5	2	11	<0.5	<3	<3	55	0.16
1891933	Soil	4	<3	<2	<1	43	7	72	<0.3	19	11	541	3.42	7	4	15	<0.5	<3	<3	80	0.22
1891934	Soil	6	<3	2	<1	30	7	60	<0.3	33	11	335	3.06	9	5	13	<0.5	<3	<3	65	0.17
1891935	Soil	3	<3	<2	<1	28	11	64	<0.3	19	8	390	3.49	13	<2	11	<0.5	<3	<3	74	0.12
1891936	Soil	4	<3	5	<1	66	9	52	<0.3	20	10	252	3.44	14	<2	15	<0.5	<3	<3	83	0.20
1891937	Soil	3	<3	<2	<1	8	11	44	<0.3	11	5	256	2.65	10	<2	14	<0.5	<3	<3	61	0.17
1891938	Soil	<2	<3	2	<1	10	10	45	<0.3	13	6	217	2.64	10	<2	10	<0.5	<3	<3	44	0.10
1891939	Soil	2	<3	<2	1	12	14	54	<0.3	17	7	230	3.00	12	4	10	<0.5	<3	<3	58	0.10
1891940	Soil	13	<3	<2	<1	22	12	55	<0.3	19	8	244	2.72	12	3	9	<0.5	<3	<3	48	0.07
1891941	Soil	5	<3	<2	<1	21	11	54	<0.3	19	8	244	2.72	11	<2	9	<0.5	<3	<3	48	0.08
1891942	Soil	<2	<3	<2	<1	12	12	82	<0.3	21	11	336	3.21	11	3	19	<0.5	<3	<3	61	0.20
1891943	Soil	5	<3	3	<1	30	14	66	<0.3	25	10	237	3.61	10	7	7	<0.5	<3	<3	48	0.08
1891944	Soil	3	<3	<2	<1	22	13	72	<0.3	24	13	322	3.46	11	7	8	<0.5	<3	<3	46	0.08
1891945	Soil	5	<3	<2	<1	21	13	57	<0.3	19	9	295	2.94	12	4	9	<0.5	<3	<3	51	0.10
1891946	Soil	4	<3	<2	<1	28	12	74	<0.3	30	13	304	3.49	11	5	7	<0.5	<3	<3	44	0.08
1891947	Soil	3	<3	<2	<1	31	17	93	<0.3	32	16	625	4.00	4	9	7	<0.5	<3	<3	45	0.14
1891948	Soil	4	<3	<2	<1	27	14	72	<0.3	24	12	312	3.36	13	12	9	<0.5	<3	<3	36	0.09
1891949	Soil	2	<3	<2	<1	34	14	91	<0.3	38	17	517	4.10	6	11	7	<0.5	<3	<3	44	0.09
1891950	Soil	3	<3	<2	<1	82	20	95	<0.3	39	18	633	4.36	5	16	7	<0.5	<3	<3	38	0.11
1891964	Soil	6	<3	2	<1	13	10	47	<0.3	14	6	228	2.33	7	5	11	<0.5	<3	<3	43	0.11
1891965	Soil	6	<3	<2	<1	17	9	50	<0.3	15	7	234	2.34	8	2	12	<0.5	<3	<3	40	0.12
1891966	Soil	5	<3	2	<1	15	11	46	<0.3	17	7	204	2.52	10	<2	11	<0.5	<3	<3	46	0.10
1891967	Soil	4	<3	<2	2	48	9	125	0.9	117	14	766	2.84	243	6	7	<0.5	<3	<3	65	0.52
1891968	Soil	<2	<3	<2	<1	10	11	40	<0.3	14	6	163	2.28	16	<2	9	<0.5	<3	<3	42	0.13
1891969	Soil	2	<3	<2	<1	34	18	118	<0.3	42	17	621	4.93	<2	22	5	<0.5	<3	<3	40	0.09
1891970	Soil	3	<3	<2	1	21	12	41	0.7	14	6	208	2.56	29	<2	11	<0.5	<3	<3	55	0.10
1891971	Soil	<2	<3	<2	<1	28	17	82	<0.3	34	13	329	4.02	6	11	7	<0.5	<3	<3	46	0.08
1891972	Soil	2	<3	<2	<1	22	12	51	<0.3	19	9	202	2.96	7	5	8	<0.5	<3	<3	58	0.07
1891973	Soil	5	<3	<2	<1	24	13	49	<0.3	21	8	183	2.90	10	7	8	<0.5	<3	<3	48	0.08

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34A Laberge Road
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Project: EUK-17029-YT
Report Date: October 18, 2017

CERTIFICATE OF ANALYSIS WHI17000891.1

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
1891799	Soil	0.029	32	32	0.90	227	0.129	23	1.62	<0.01	0.35	<2	<0.05	<1	<5	<5	<5
1891800	Soil	0.041	10	33	1.10	314	0.190	23	1.82	<0.01	0.68	<2	<0.05	<1	<5	<5	<5
1891933	Soil	0.029	40	44	1.27	358	0.183	22	2.26	<0.01	0.61	<2	<0.05	<1	<5	6	<5
1891934	Soil	0.025	124	86	1.24	369	0.169	<20	2.27	<0.01	0.41	<2	<0.05	<1	<5	<5	<5
1891935	Soil	0.063	7	37	0.64	222	0.137	<20	1.78	<0.01	0.33	<2	<0.05	<1	<5	6	<5
1891936	Soil	0.036	7	39	0.73	164	0.070	<20	1.99	0.01	0.08	<2	<0.05	<1	<5	<5	<5
1891937	Soil	0.065	10	25	0.37	163	0.048	<20	1.34	<0.01	0.07	<2	<0.05	<1	<5	6	<5
1891938	Soil	0.034	8	24	0.43	131	0.044	<20	1.41	<0.01	0.06	<2	<0.05	<1	<5	5	<5
1891939	Soil	0.035	13	31	0.44	188	0.049	<20	2.12	<0.01	0.07	<2	<0.05	<1	<5	7	<5
1891940	Soil	0.018	19	30	0.46	184	0.050	<20	1.72	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
1891941	Soil	0.018	18	30	0.46	184	0.050	<20	1.72	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
1891942	Soil	0.039	9	39	0.71	198	0.099	<20	2.17	<0.01	0.17	<2	<0.05	<1	<5	5	<5
1891943	Soil	0.036	20	39	0.66	175	0.105	<20	2.40	<0.01	0.38	<2	<0.05	<1	<5	6	<5
1891944	Soil	0.025	13	35	0.69	156	0.127	<20	2.17	<0.01	0.37	<2	<0.05	<1	<5	<5	<5
1891945	Soil	0.036	31	28	0.49	163	0.091	<20	1.69	<0.01	0.17	<2	<0.05	<1	<5	<5	<5
1891946	Soil	0.028	20	32	0.74	147	0.136	<20	2.19	<0.01	0.44	<2	<0.05	<1	<5	<5	<5
1891947	Soil	0.076	21	45	1.03	194	0.234	<20	2.48	<0.01	1.01	<2	<0.05	<1	<5	<5	<5
1891948	Soil	0.018	42	29	0.52	177	0.071	<20	1.77	<0.01	0.17	<2	<0.05	<1	<5	<5	<5
1891949	Soil	0.038	32	32	0.88	179	0.160	<20	2.37	<0.01	0.69	<2	<0.05	<1	<5	<5	<5
1891950	Soil	0.048	25	29	0.96	190	0.243	<20	2.57	<0.01	1.01	<2	<0.05	<1	<5	<5	<5
1891964	Soil	0.018	19	28	0.52	132	0.092	<20	1.57	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
1891965	Soil	0.020	27	29	0.48	223	0.069	<20	1.44	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1891966	Soil	0.027	12	28	0.43	194	0.057	<20	1.54	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1891967	Soil	0.047	35	183	1.08	169	0.026	<20	1.65	<0.01	0.04	<2	<0.05	<1	<5	<5	12
1891968	Soil	0.015	9	22	0.30	166	0.024	<20	1.33	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
1891969	Soil	0.044	67	30	0.75	165	0.177	<20	2.18	<0.01	0.84	<2	<0.05	<1	<5	<5	7
1891970	Soil	0.026	12	24	0.27	189	0.037	<20	1.47	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
1891971	Soil	0.025	29	40	1.00	173	0.227	<20	2.71	<0.01	0.84	<2	<0.05	<1	<5	<5	<5
1891972	Soil	0.016	33	33	0.52	176	0.110	<20	2.13	<0.01	0.17	<2	<0.05	<1	<5	<5	<5
1891973	Soil	0.025	25	32	0.48	156	0.083	<20	2.31	<0.01	0.15	<2	<0.05	<1	<5	<5	<5

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CERTIFICATE OF ANALYSIS WHI17000891.1

	Method	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1891974	Soil	5	<3	<2	<1	25	12	49	<0.3	20	10	288	2.99	8	5	9	<0.5	<3	<3	46	0.10
1891975	Soil	4	<3	<2	<1	20	12	54	<0.3	23	10	234	3.27	12	4	12	<0.5	<3	<3	55	0.11
1891976	Soil	2	<3	<2	<1	16	9	57	<0.3	26	10	312	3.41	7	3	13	<0.5	<3	<3	76	0.17
1891977	Soil	2	<3	<2	<1	12	10	50	<0.3	19	8	262	3.47	9	<2	8	<0.5	<3	<3	54	0.10
1891978	Soil	3	<3	2	<1	20	11	52	<0.3	21	9	213	2.89	9	3	8	<0.5	<3	<3	46	0.07
1891979	Soil	4	<3	3	<1	18	13	48	<0.3	18	8	212	3.06	10	10	9	<0.5	<3	<3	47	0.08
1891980	Soil	3	<3	2	<1	29	16	75	<0.3	30	11	348	4.61	10	6	9	<0.5	<3	<3	50	0.10
1891981	Soil	3	<3	<2	<1	28	15	71	<0.3	29	12	313	4.07	11	9	9	<0.5	<3	<3	49	0.10
1891982	Soil	2	<3	<2	<1	11	12	35	<0.3	13	5	121	2.53	8	5	8	<0.5	<3	<3	45	0.08
1891983	Soil	4	<3	<2	<1	20	9	52	<0.3	21	10	269	2.65	9	6	13	<0.5	<3	<3	42	0.11
1891984	Soil	5	<3	3	<1	26	12	64	<0.3	31	13	285	3.70	8	9	8	<0.5	<3	<3	58	0.06
1891985	Soil	3	<3	<2	<1	25	11	65	<0.3	31	13	323	3.46	11	8	8	<0.5	<3	<3	47	0.09
1891986	Soil	4	3	3	1	16	16	42	<0.3	16	8	237	2.77	7	5	9	<0.5	<3	<3	53	0.09
1891987	Soil	<2	<3	<2	<1	21	14	74	<0.3	26	9	267	4.33	10	6	10	<0.5	<3	<3	52	0.11
1892001	Soil	5	<3	5	<1	15	4	41	<0.3	17	7	211	2.22	3	7	15	<0.5	<3	<3	43	0.30
1892002	Soil	<2	<3	3	<1	15	6	48	<0.3	15	7	234	2.16	4	6	13	<0.5	<3	<3	40	0.21
1892003	Soil	2	<3	3	<1	24	7	53	<0.3	15	7	239	2.50	5	4	14	<0.5	<3	<3	55	0.20
1892004	Soil	2	<3	3	<1	21	6	52	<0.3	12	6	252	2.38	6	<2	13	<0.5	<3	<3	59	0.16
1892005	Soil	2	<3	<2	1	15	6	50	<0.3	13	5	235	2.50	5	10	13	<0.5	<3	<3	38	0.14
1892006	Soil	2	<3	<2	<1	22	6	51	<0.3	11	6	266	2.31	6	8	10	<0.5	<3	<3	41	0.12
1892007	Soil	<2	<3	<2	<1	17	6	50	<0.3	12	6	242	2.19	5	6	10	<0.5	<3	<3	39	0.14
1892008	Soil	<2	<3	2	<1	11	5	43	<0.3	12	6	226	2.23	5	5	10	<0.5	<3	<3	39	0.14
1892009	Soil	<2	<3	2	<1	11	6	45	<0.3	11	5	207	2.44	6	5	9	<0.5	<3	<3	47	0.12
1892010	Soil	3	<3	3	<1	11	7	49	<0.3	11	6	253	2.68	8	6	10	<0.5	<3	<3	50	0.15
1892011	Soil	2	<3	2	<1	10	8	44	<0.3	11	5	198	2.29	7	6	11	<0.5	<3	<3	44	0.14
1892012	Soil	8	<3	<2	<1	9	6	41	<0.3	13	5	181	2.04	4	5	8	<0.5	<3	<3	36	0.13
1892013	Soil	3	<3	<2	<1	8	6	40	<0.3	11	5	183	1.99	6	6	9	<0.5	<3	<3	37	0.13
1892014	Soil	6	<3	<2	<1	12	6	42	<0.3	13	5	164	1.82	4	7	13	<0.5	<3	<3	33	0.18
1892015	Soil	12	<3	<2	<1	10	6	33	<0.3	10	4	159	1.93	5	8	13	<0.5	<3	<3	33	0.18
1892016	Soil	3	<3	<2	<1	9	7	37	<0.3	11	5	168	1.98	6	6	11	<0.5	<3	<3	37	0.14

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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
1891974	Soil	0.037	19	28	0.49	168	0.097	<20	1.83	<0.01	0.21	<2	<0.05	<1	<5	<5	<5
1891975	Soil	0.022	13	33	0.55	212	0.078	<20	2.06	<0.01	0.11	<2	<0.05	<1	<5	<5	<5
1891976	Soil	0.059	15	95	1.09	287	0.172	<20	2.24	<0.01	0.38	<2	<0.05	<1	<5	<5	<5
1891977	Soil	0.043	11	62	0.74	144	0.101	<20	1.87	<0.01	0.18	<2	<0.05	<1	<5	<5	<5
1891978	Soil	0.022	16	31	0.52	148	0.094	<20	2.08	<0.01	0.17	<2	<0.05	<1	<5	<5	<5
1891979	Soil	0.019	25	28	0.48	143	0.104	<20	1.89	<0.01	0.17	<2	<0.05	<1	<5	<5	<5
1891980	Soil	0.034	26	35	0.79	168	0.216	<20	2.63	<0.01	0.53	<2	<0.05	<1	<5	<5	<5
1891981	Soil	0.031	35	34	0.75	175	0.192	<20	2.55	<0.01	0.48	<2	<0.05	<1	<5	<5	<5
1891982	Soil	0.023	23	20	0.34	108	0.062	<20	1.28	<0.01	0.11	<2	<0.05	<1	<5	<5	<5
1891983	Soil	0.017	38	26	0.52	153	0.075	<20	1.51	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
1891984	Soil	0.022	16	36	0.72	179	0.156	<20	2.47	<0.01	0.37	<2	<0.05	<1	<5	<5	<5
1891985	Soil	0.025	16	32	0.72	194	0.143	<20	2.22	<0.01	0.37	<2	<0.05	<1	<5	<5	<5
1891986	Soil	0.032	17	23	0.37	182	0.061	<20	1.84	<0.01	0.11	<2	<0.05	<1	<5	5	<5
1891987	Soil	0.041	14	29	0.67	208	0.174	<20	2.64	<0.01	0.58	<2	<0.05	<1	<5	<5	<5
1892001	Soil	0.059	26	37	0.77	247	0.115	<20	1.39	<0.01	0.39	<2	<0.05	<1	<5	<5	<5
1892002	Soil	0.042	20	41	0.71	208	0.101	<20	1.37	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
1892003	Soil	0.034	25	44	0.76	241	0.113	<20	1.56	<0.01	0.15	<2	<0.05	<1	<5	<5	<5
1892004	Soil	0.027	12	38	0.68	216	0.115	<20	1.32	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
1892005	Soil	0.030	23	31	0.74	313	0.100	<20	1.31	<0.01	0.28	<2	<0.05	<1	<5	<5	<5
1892006	Soil	0.019	20	23	0.58	195	0.095	<20	1.33	<0.01	0.18	<2	<0.05	<1	<5	<5	<5
1892007	Soil	0.026	17	27	0.64	224	0.113	<20	1.32	<0.01	0.25	<2	<0.05	<1	<5	<5	<5
1892008	Soil	0.033	15	29	0.63	210	0.109	<20	1.35	<0.01	0.25	<2	<0.05	<1	<5	<5	<5
1892009	Soil	0.033	13	29	0.61	174	0.114	<20	1.32	<0.01	0.17	<2	<0.05	<1	<5	<5	<5
1892010	Soil	0.054	17	28	0.64	189	0.114	<20	1.46	<0.01	0.18	<2	<0.05	<1	<5	<5	<5
1892011	Soil	0.037	16	23	0.47	169	0.086	<20	1.36	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892012	Soil	0.036	13	26	0.52	115	0.090	<20	1.21	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
1892013	Soil	0.033	14	22	0.46	130	0.084	<20	1.07	<0.01	0.11	<2	<0.05	<1	<5	<5	<5
1892014	Soil	0.038	20	21	0.43	177	0.073	<20	1.00	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
1892015	Soil	0.031	23	18	0.43	226	0.082	<20	1.09	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
1892016	Soil	0.025	18	21	0.42	170	0.081	<20	1.20	<0.01	0.08	<2	<0.05	<1	<5	<5	<5

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Project: EUK-17029-YT
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CERTIFICATE OF ANALYSIS WHI17000891.1

Method		FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1892017	Soil	3	<3	2	<1	10	6	34	<0.3	9	4	133	1.84	5	4	10	<0.5	<3	<3	33	0.12
1892018	Soil	3	<3	<2	<1	12	6	36	<0.3	10	5	184	1.85	5	9	11	<0.5	<3	<3	31	0.13
1892019	Soil	5	<3	2	1	27	16	75	<0.3	25	7	288	2.54	9	6	24	<0.5	<3	<3	42	0.37
1892020	Soil	6	3	<2	<1	18	10	49	<0.3	16	7	278	2.20	7	6	25	<0.5	<3	<3	38	0.38
1892021	Soil	4	5	3	<1	21	11	49	<0.3	18	8	322	2.31	7	6	29	<0.5	<3	<3	39	0.42
1892022	Soil	6	3	<2	<1	16	10	61	<0.3	15	7	274	2.73	8	13	11	<0.5	<3	<3	46	0.12
1892023	Soil	3	<3	<2	<1	11	9	72	<0.3	13	9	335	3.66	6	10	10	<0.5	<3	<3	60	0.11
1892024	Soil	2	<3	<2	2	11	10	67	<0.3	13	6	309	3.58	6	10	13	<0.5	<3	<3	55	0.16
1892025	Soil	3	<3	<2	<1	13	10	63	<0.3	17	7	318	3.43	8	23	11	<0.5	<3	<3	56	0.14
1892026	Soil	3	<3	<2	<1	16	7	46	<0.3	13	8	321	2.87	5	19	12	<0.5	<3	<3	46	0.16
1892027	Soil	4	<3	<2	<1	12	10	39	<0.3	12	6	232	2.80	7	7	10	<0.5	<3	<3	58	0.10
1892028	Soil	4	<3	<2	<1	19	11	51	<0.3	20	10	253	2.77	11	14	10	<0.5	<3	<3	47	0.09
1892029	Soil	4	<3	<2	1	11	9	63	<0.3	13	8	375	3.23	7	5	14	<0.5	<3	<3	50	0.11
1892030	Soil	8	<3	<2	<1	20	9	51	<0.3	23	10	254	2.72	11	13	13	<0.5	<3	<3	47	0.13
1892031	Soil	3	<3	<2	1	13	11	51	<0.3	17	9	236	3.33	12	2	8	<0.5	<3	<3	64	0.07
1892032	Soil	3	<3	<2	<1	15	10	44	<0.3	20	10	240	3.16	11	9	11	<0.5	<3	<3	58	0.10
1892033	Soil	4	<3	<2	1	14	9	48	<0.3	16	7	222	3.13	12	11	10	<0.5	<3	<3	50	0.10
1892034	Soil	3	<3	3	<1	7	11	67	<0.3	4	4	395	4.32	5	9	6	<0.5	<3	<3	38	0.05
1892035	Soil	<2	<3	<2	<1	6	7	70	<0.3	6	5	365	3.33	4	7	17	<0.5	<3	<3	40	0.07
1892036	Soil	2	<3	<2	<1	10	9	69	<0.3	10	6	403	3.25	6	4	8	<0.5	<3	<3	40	0.06
1892037	Soil	3	4	<2	<1	8	10	58	<0.3	7	4	405	3.59	4	8	5	<0.5	<3	<3	37	0.09
1892038	Soil	4	3	4	<1	9	8	62	<0.3	8	4	439	2.90	6	6	9	<0.5	<3	<3	40	0.11
1892039	Soil	3	<3	<2	<1	16	7	40	<0.3	16	6	209	2.43	8	10	9	<0.5	<3	<3	36	0.09
1892040	Soil	4	<3	<2	<1	11	7	48	<0.3	14	6	241	2.54	7	3	13	<0.5	<3	<3	39	0.14
1892041	Soil	3	<3	<2	1	14	10	52	<0.3	16	7	242	3.32	11	4	12	<0.5	<3	<3	58	0.12
1892042	Soil	11	<3	<2	1	14	11	51	<0.3	17	7	234	3.42	12	4	11	<0.5	<3	<3	59	0.12
1892043	Soil	<2	<3	<2	<1	13	6	71	<0.3	10	5	393	3.13	3	10	7	<0.5	<3	<3	41	0.10
1892044	Soil	6	<3	<2	<1	13	10	49	<0.3	13	7	286	2.52	5	7	10	<0.5	<3	<3	48	0.12
1892045	Soil	3	<3	<2	<1	15	8	59	<0.3	13	8	389	2.81	4	11	12	<0.5	<3	<3	44	0.14
1892046	Soil	4	<3	<2	1	16	10	53	<0.3	16	8	309	3.25	10	8	13	<0.5	<3	<3	57	0.13

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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
1892017	Soil	0.034	13	17	0.37	153	0.066	<20	1.11	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1892018	Soil	0.016	24	17	0.45	234	0.072	<20	1.06	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892019	Soil	0.065	19	29	0.51	443	0.072	<20	1.32	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892020	Soil	0.046	21	23	0.45	431	0.065	<20	1.34	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1892021	Soil	0.049	23	24	0.45	485	0.064	<20	1.42	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1892022	Soil	0.023	54	24	0.66	275	0.098	<20	1.65	<0.01	0.20	<2	<0.05	<1	<5	<5	5
1892023	Soil	0.028	41	28	1.13	235	0.157	<20	2.38	<0.01	0.56	<2	<0.05	<1	<5	6	6
1892024	Soil	0.051	34	26	0.90	277	0.125	<20	2.13	<0.01	0.39	<2	<0.05	<1	<5	6	6
1892025	Soil	0.039	58	29	0.98	267	0.140	<20	2.32	<0.01	0.38	<2	<0.05	<1	<5	<5	8
1892026	Soil	0.038	126	21	0.86	250	0.105	<20	1.79	<0.01	0.34	<2	<0.05	<1	<5	<5	10
1892027	Soil	0.024	16	28	0.54	265	0.097	<20	1.96	<0.01	0.15	<2	<0.05	<1	<5	<5	<5
1892028	Soil	0.022	21	28	0.57	199	0.072	<20	1.98	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892029	Soil	0.035	17	26	1.03	385	0.170	<20	2.34	<0.01	0.40	<2	<0.05	<1	<5	<5	<5
1892030	Soil	0.023	67	29	0.57	310	0.074	<20	1.83	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
1892031	Soil	0.032	10	33	0.52	177	0.083	<20	2.23	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892032	Soil	0.039	13	32	0.55	320	0.072	<20	2.21	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892033	Soil	0.028	15	26	0.56	219	0.084	<20	2.36	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892034	Soil	0.046	10	5	1.26	403	0.148	<20	2.10	<0.01	0.80	<2	<0.05	<1	<5	11	7
1892035	Soil	0.032	22	12	1.50	504	0.263	<20	2.29	<0.01	0.78	<2	<0.05	<1	<5	<5	5
1892036	Soil	0.011	27	16	1.57	419	0.178	<20	2.58	<0.01	0.73	<2	<0.05	<1	<5	7	6
1892037	Soil	0.034	11	15	1.56	468	0.270	<20	2.59	<0.01	0.77	<2	<0.05	<1	<5	<5	6
1892038	Soil	0.060	17	18	1.19	699	0.171	<20	2.04	<0.01	0.66	<2	<0.05	<1	<5	<5	<5
1892039	Soil	0.015	22	21	0.66	239	0.107	<20	1.71	<0.01	0.27	<2	<0.05	<1	<5	<5	<5
1892040	Soil	0.035	15	21	0.92	302	0.122	<20	1.83	<0.01	0.26	<2	<0.05	<1	<5	<5	<5
1892041	Soil	0.048	14	28	0.77	380	0.101	<20	2.24	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
1892042	Soil	0.047	14	29	0.73	369	0.096	<20	2.28	<0.01	0.11	<2	<0.05	<1	<5	<5	<5
1892043	Soil	0.024	27	20	1.73	829	0.229	<20	2.39	<0.01	0.94	<2	<0.05	<1	<5	<5	7
1892044	Soil	0.028	22	25	0.80	282	0.129	<20	1.75	<0.01	0.37	<2	<0.05	<1	<5	<5	<5
1892045	Soil	0.024	71	25	0.98	360	0.166	<20	1.72	<0.01	0.53	<2	<0.05	<1	<5	<5	5
1892046	Soil	0.026	18	31	0.63	300	0.106	<20	2.10	<0.01	0.14	<2	<0.05	<1	<5	<5	<5

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Method		FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1892047	Soil	3	4	3	<1	11	7	42	<0.3	12	6	206	2.81	7	5	12	<0.5	<3	<3	46	0.13
1892048	Soil	8	<3	<2	<1	15	7	45	<0.3	15	7	227	2.67	7	6	19	<0.5	<3	<3	42	0.23
1892049	Soil	4	<3	<2	<1	11	8	36	<0.3	11	5	178	2.16	6	8	14	<0.5	<3	<3	41	0.15
1892050	Soil	3	5	3	1	8	8	31	<0.3	9	7	344	1.82	6	5	16	<0.5	<3	<3	39	0.18
1892051	Soil	<2	<3	5	<1	3	4	31	<0.3	2	2	198	1.89	3	15	12	<0.5	<3	<3	13	0.04
1892052	Soil	2	4	<2	<1	4	6	38	<0.3	4	3	233	2.26	4	14	13	<0.5	<3	<3	14	0.05
1892053	Soil	<2	<3	3	<1	6	4	33	<0.3	5	3	107	1.61	2	20	14	<0.5	<3	<3	8	0.05
1892054	Soil	4	<3	2	<1	13	8	38	<0.3	12	5	171	2.13	8	18	13	<0.5	<3	<3	30	0.08
1892055	Soil	7	3	<2	<1	23	20	78	<0.3	18	8	461	3.52	2	9	23	<0.5	<3	<3	53	0.27
1892056	Soil	3	<3	<2	<1	13	9	52	<0.3	12	6	235	2.37	5	9	14	<0.5	<3	<3	36	0.15
1892057	Soil	<2	<3	<2	<1	11	5	40	<0.3	8	3	204	2.10	4	11	21	<0.5	<3	<3	24	0.12
1892058	Soil	<2	<3	<2	<1	20	7	42	<0.3	11	5	191	2.18	4	8	14	<0.5	<3	<3	32	0.16
1892059	Soil	2	<3	3	<1	25	7	49	<0.3	12	5	165	2.29	6	3	15	<0.5	<3	<3	36	0.19
1892060	Soil	8	5	4	<1	23	9	53	<0.3	15	5	171	2.32	6	5	19	<0.5	<3	<3	38	0.23
1892061	Soil	5	<3	<2	1	23	7	49	<0.3	13	5	186	2.64	7	5	17	<0.5	<3	<3	40	0.24
1892062	Soil	4	<3	<2	<1	20	8	47	<0.3	16	5	176	2.34	6	4	20	<0.5	<3	<3	38	0.25
1892063	Soil	3	<3	<2	<1	11	6	40	<0.3	9	4	171	2.03	5	8	14	<0.5	<3	<3	32	0.20
1892064	Soil	2	<3	3	<1	16	7	43	<0.3	12	4	165	1.97	5	7	19	<0.5	<3	<3	34	0.27
1892065	Soil	6	<3	<2	<1	12	8	41	<0.3	10	4	147	1.93	5	5	14	<0.5	<3	<3	31	0.20
1892066	Soil	3	<3	<2	<1	13	8	47	<0.3	11	4	153	2.21	6	5	15	<0.5	<3	<3	38	0.20
1892067	Soil	<2	<3	3	<1	8	5	32	<0.3	7	3	134	1.48	3	7	12	<0.5	<3	<3	24	0.21
1892068	Soil	5	<3	<2	<1	15	8	48	<0.3	11	4	122	2.18	6	4	14	<0.5	<3	<3	37	0.18
1892069	Soil	4	<3	<2	<1	13	6	42	<0.3	11	5	163	1.93	6	6	16	<0.5	<3	<3	34	0.22
1892070	Soil	5	<3	4	<1	21	9	46	<0.3	13	4	137	2.30	7	5	13	<0.5	<3	<3	37	0.18
1892071	Soil	3	<3	<2	<1	12	9	45	<0.3	11	5	191	2.31	7	3	16	<0.5	<3	<3	37	0.21
1892072	Soil	3	<3	<2	<1	13	7	42	<0.3	10	4	138	1.88	5	6	15	<0.5	<3	<3	33	0.19
1892073	Soil	3	<3	<2	<1	14	6	40	<0.3	11	4	130	1.81	5	4	15	<0.5	<3	<3	31	0.22
1892074	Soil	3	<3	<2	<1	11	7	40	<0.3	10	4	151	1.91	5	8	12	<0.5	<3	<3	33	0.16
1892075	Soil	2	<3	<2	<1	12	6	43	<0.3	11	4	157	1.97	4	7	13	<0.5	<3	<3	34	0.17
1892076	Soil	2	<3	2	<1	12	6	43	<0.3	11	4	161	1.91	5	7	13	<0.5	<3	<3	32	0.17

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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
1892047	Soil	0.035	11	23	0.63	289	0.128	<20	1.56	<0.01	0.37	<2	<0.05	<1	<5	<5	<5
1892048	Soil	0.030	27	24	0.64	405	0.102	<20	1.61	<0.01	0.18	<2	<0.05	<1	<5	<5	<5
1892049	Soil	0.018	33	21	0.45	338	0.074	<20	1.23	<0.01	0.09	<2	<0.05	<1	<5	<5	<5
1892050	Soil	0.039	21	18	0.38	381	0.082	<20	1.00	<0.01	0.19	<2	<0.05	<1	<5	<5	<5
1892051	Soil	0.019	32	4	0.39	202	0.046	<20	0.85	<0.01	0.19	<2	<0.05	<1	<5	<5	<5
1892052	Soil	0.021	30	7	0.46	239	0.053	<20	1.05	<0.01	0.23	<2	<0.05	<1	<5	<5	<5
1892053	Soil	0.012	39	7	0.40	223	0.024	<20	1.18	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
1892054	Soil	0.013	29	18	0.32	243	0.031	<20	1.15	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1892055	Soil	0.017	37	63	1.54	1020	0.182	<20	2.55	<0.01	1.25	<2	<0.05	<1	<5	<5	7
1892056	Soil	0.028	26	22	0.60	316	0.104	<20	1.50	<0.01	0.29	<2	<0.05	<1	<5	<5	<5
1892057	Soil	0.034	32	13	0.63	353	0.098	<20	1.14	<0.01	0.44	<2	<0.05	<1	<5	<5	<5
1892058	Soil	0.035	31	18	0.52	285	0.102	<20	1.26	<0.01	0.27	<2	<0.05	<1	<5	<5	<5
1892059	Soil	0.047	29	20	0.50	354	0.080	<20	1.41	<0.01	0.16	<2	<0.05	<1	<5	<5	<5
1892060	Soil	0.050	26	22	0.55	367	0.093	<20	1.47	<0.01	0.17	<2	<0.05	<1	<5	<5	<5
1892061	Soil	0.067	24	20	0.53	406	0.096	<20	1.21	<0.01	0.23	<2	<0.05	<1	<5	<5	<5
1892062	Soil	0.047	32	29	0.59	527	0.107	<20	1.52	<0.01	0.22	<2	<0.05	<1	<5	<5	<5
1892063	Soil	0.047	27	16	0.53	288	0.106	<20	1.26	<0.01	0.25	<2	<0.05	<1	<5	<5	<5
1892064	Soil	0.045	24	19	0.55	376	0.109	<20	1.19	<0.01	0.24	<2	<0.05	<1	<5	<5	<5
1892065	Soil	0.049	21	17	0.46	284	0.090	<20	1.27	<0.01	0.16	<2	<0.05	<1	<5	<5	<5
1892066	Soil	0.054	21	17	0.51	290	0.095	<20	1.42	<0.01	0.16	<2	<0.05	<1	<5	<5	<5
1892067	Soil	0.055	19	12	0.39	190	0.081	<20	0.88	<0.01	0.15	<2	<0.05	<1	<5	<5	<5
1892068	Soil	0.053	21	21	0.48	271	0.085	<20	1.49	<0.01	0.15	<2	<0.05	<1	<5	<5	<5
1892069	Soil	0.050	20	18	0.45	276	0.091	<20	1.11	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
1892070	Soil	0.055	27	20	0.46	402	0.090	<20	1.56	<0.01	0.15	<2	<0.05	<1	<5	<5	<5
1892071	Soil	0.056	25	20	0.50	351	0.098	<20	1.33	<0.01	0.20	<2	<0.05	<1	<5	<5	<5
1892072	Soil	0.047	24	17	0.46	310	0.088	<20	1.22	<0.01	0.16	<2	<0.05	<1	<5	<5	<5
1892073	Soil	0.050	23	17	0.42	326	0.082	<20	1.15	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
1892074	Soil	0.042	23	18	0.51	240	0.092	<20	1.23	<0.01	0.20	<2	<0.05	<1	<5	<5	<5
1892075	Soil	0.044	25	19	0.53	243	0.096	<20	1.26	<0.01	0.21	<2	<0.05	<1	<5	<5	<5
1892076	Soil	0.040	22	18	0.50	242	0.089	<20	1.18	<0.01	0.20	<2	<0.05	<1	<5	<5	<5

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Project: EUK-17029-YT
Report Date: October 18, 2017

CERTIFICATE OF ANALYSIS WHI17000891.1

Method		FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1892077	Soil	4	<3	3	<1	23	7	44	<0.3	10	4	223	1.87	4	3	14	<0.5	<3	<3	27	0.19
1892078	Soil	5	<3	3	<1	18	6	35	<0.3	7	2	94	1.61	5	<2	11	<0.5	<3	<3	24	0.12
1892079	Soil	9	<3	3	<1	12	7	40	<0.3	10	3	93	1.58	5	<2	12	<0.5	<3	<3	25	0.16
1892080	Soil	5	<3	<2	1	37	10	76	<0.3	17	6	229	2.76	6	<2	14	<0.5	<3	<3	45	0.16
1892081	Soil	3	<3	2	1	34	10	68	<0.3	18	5	187	2.50	8	5	13	<0.5	<3	<3	38	0.13
1892082	Soil	3	<3	2	1	28	8	86	<0.3	20	7	282	2.71	7	4	10	<0.5	<3	<3	43	0.09
1892083	Soil	3	<3	<2	2	97	5	122	<0.3	13	10	478	4.72	3	4	9	<0.5	<3	<3	48	0.06
1892084	Soil	4	<3	3	1	30	6	55	<0.3	11	6	228	2.60	4	<2	15	<0.5	<3	<3	41	0.20
1892085	Soil	3	<3	<2	<1	57	8	104	<0.3	11	10	587	3.50	<2	3	15	<0.5	<3	<3	75	0.32
1892086	Soil	<2	<3	<2	1	50	8	109	<0.3	27	21	869	5.05	<2	<2	13	<0.5	<3	<3	95	0.29
1892087	Soil	<2	<3	<2	<1	13	<3	59	<0.3	7	7	901	3.61	9	<2	16	<0.5	<3	<3	50	0.79
1892088	Soil	4	<3	<2	1	24	9	55	<0.3	16	10	378	3.04	9	3	9	<0.5	<3	<3	52	0.10
1892089	Soil	2	<3	<2	<1	19	9	40	<0.3	15	7	271	2.81	7	<2	11	<0.5	<3	<3	54	0.11
1892090	Soil	4	<3	<2	<1	21	4	47	<0.3	11	16	549	4.13	3	3	14	<0.5	<3	<3	115	0.23
1892091	Soil	5	<3	<2	<1	20	7	61	<0.3	18	12	703	3.08	5	<2	12	<0.5	<3	<3	50	0.20
1892092	Soil	5	<3	<2	<1	29	8	50	<0.3	17	8	428	2.61	8	3	12	<0.5	<3	<3	47	0.14
1892093	Soil	5	<3	2	<1	42	10	77	<0.3	14	9	344	3.23	7	2	12	<0.5	<3	<3	64	0.18
1892094	Soil	<2	<3	3	<1	48	6	75	<0.3	19	14	500	3.52	3	<2	6	<0.5	<3	<3	83	0.18
1892095	Soil	3	3	2	<1	46	7	71	<0.3	16	12	442	3.57	5	<2	7	<0.5	<3	<3	87	0.16
1892096	Soil	4	<3	<2	<1	38	6	61	<0.3	14	12	498	3.34	3	<2	8	<0.5	<3	<3	87	0.16
1892097	Soil	<2	<3	2	<1	31	5	69	<0.3	16	14	853	3.75	5	<2	17	<0.5	<3	<3	114	0.29
1892098	Soil	2	<3	<2	<1	13	5	103	<0.3	6	11	718	4.24	4	<2	6	<0.5	<3	<3	86	0.22
1892099	Soil	<2	<3	<2	<1	29	3	88	<0.3	6	14	508	3.97	<2	3	11	<0.5	<3	<3	77	0.42
1892100	Soil	<2	<3	3	<1	18	8	72	<0.3	15	9	524	3.13	4	2	8	<0.5	<3	<3	53	0.10
1892101	Soil	3	<3	<2	<1	18	14	68	<0.3	25	13	344	3.92	10	4	8	<0.5	<3	<3	61	0.08
1892102	Soil	<2	<3	2	<1	30	16	72	<0.3	28	13	315	3.95	11	9	7	<0.5	<3	<3	45	0.07
1892103	Soil	4	<3	<2	1	22	11	66	<0.3	21	13	394	3.93	15	4	12	<0.5	<3	<3	72	0.13
1892104	Soil	4	<3	<2	<1	21	11	71	<0.3	30	13	381	3.77	9	4	10	<0.5	<3	<3	61	0.13
1892105	Soil	<2	<3	<2	1	12	12	47	<0.3	17	7	213	3.31	11	3	13	<0.5	<3	<3	63	0.12
1892106	Soil	<2	<3	<2	2	56	15	84	<0.3	33	13	504	4.74	10	8	6	<0.5	<3	<3	65	0.06

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Project: EUK-17029-YT
Report Date: October 18, 2017

CERTIFICATE OF ANALYSIS WHI17000891.1

	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
1892077	Soil	0.052	22	17	0.41	358	0.069	<20	1.12	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
1892078	Soil	0.042	15	14	0.31	170	0.045	<20	0.94	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1892079	Soil	0.044	11	14	0.31	179	0.036	<20	0.90	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1892080	Soil	0.050	20	28	0.72	448	0.106	<20	1.53	<0.01	0.30	<2	<0.05	<1	<5	<5	5
1892081	Soil	0.051	21	22	0.58	319	0.086	<20	1.45	<0.01	0.19	<2	<0.05	<1	<5	<5	<5
1892082	Soil	0.029	14	30	0.71	309	0.099	<20	1.48	<0.01	0.30	<2	<0.05	<1	<5	<5	<5
1892083	Soil	0.057	17	17	0.98	783	0.153	<20	1.67	<0.01	0.85	<2	0.10	<1	<5	<5	11
1892084	Soil	0.054	12	19	0.61	584	0.080	<20	1.20	<0.01	0.30	<2	<0.05	<1	<5	<5	5
1892085	Soil	0.064	21	24	1.85	668	0.150	<20	2.88	<0.01	0.91	<2	<0.05	<1	<5	6	12
1892086	Soil	0.128	5	71	2.10	534	0.205	<20	3.70	<0.01	1.15	<2	<0.05	<1	<5	6	10
1892087	Soil	0.228	5	11	1.22	249	0.113	<20	1.96	<0.01	0.42	<2	<0.05	<1	<5	<5	8
1892088	Soil	0.029	11	25	0.48	193	0.074	<20	1.66	<0.01	0.12	<2	<0.05	<1	<5	<5	6
1892089	Soil	0.024	11	31	0.49	201	0.072	<20	1.64	<0.01	0.12	<2	<0.05	<1	<5	<5	5
1892090	Soil	0.045	15	12	1.38	520	0.223	<20	2.35	<0.01	0.69	<2	<0.05	<1	<5	<5	9
1892091	Soil	0.049	10	39	0.70	346	0.069	<20	1.68	<0.01	0.21	<2	<0.05	<1	<5	<5	6
1892092	Soil	0.036	10	24	0.55	251	0.062	<20	1.63	<0.01	0.09	<2	<0.05	<1	<5	<5	<5
1892093	Soil	0.032	8	27	0.87	243	0.079	<20	1.98	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
1892094	Soil	0.034	4	36	1.20	233	0.199	<20	2.23	<0.01	0.41	<2	<0.05	<1	<5	<5	<5
1892095	Soil	0.030	5	29	1.12	219	0.194	<20	2.25	<0.01	0.29	<2	<0.05	<1	<5	<5	<5
1892096	Soil	0.028	11	38	1.13	229	0.176	<20	2.22	<0.01	0.31	<2	<0.05	<1	<5	<5	6
1892097	Soil	0.044	3	36	1.02	395	0.176	<20	2.13	<0.01	0.50	<2	<0.05	<1	<5	<5	7
1892098	Soil	0.093	5	8	1.49	487	0.233	<20	2.74	<0.01	0.94	<2	<0.05	<1	<5	<5	13
1892099	Soil	0.148	19	7	1.51	715	0.139	<20	2.17	0.01	0.74	<2	<0.05	<1	<5	<5	15
1892100	Soil	0.019	7	40	0.98	224	0.170	<20	2.42	<0.01	0.41	<2	<0.05	<1	<5	6	<5
1892101	Soil	0.030	10	45	0.81	165	0.171	<20	2.77	<0.01	0.43	<2	<0.05	<1	<5	<5	<5
1892102	Soil	0.025	19	35	0.84	136	0.155	<20	2.77	<0.01	0.51	<2	<0.05	<1	<5	<5	<5
1892103	Soil	0.048	11	48	1.03	255	0.143	<20	3.14	<0.01	0.41	<2	<0.05	<1	<5	<5	<5
1892104	Soil	0.043	16	69	1.12	300	0.189	<20	2.86	<0.01	0.59	<2	<0.05	<1	<5	<5	<5
1892105	Soil	0.032	11	34	0.54	229	0.098	<20	2.07	<0.01	0.12	<2	<0.05	<1	<5	7	<5
1892106	Soil	0.057	12	36	0.92	173	0.210	<20	2.64	<0.01	0.59	<2	<0.05	<1	<5	<5	<5

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	Method	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1892107	Soil	<2	<3	<2	<1	26	13	73	<0.3	27	13	366	4.13	11	4	9	<0.5	<3	<3	61	0.10
1892108	Soil	2	<3	<2	<1	50	13	83	<0.3	36	14	436	4.35	9	9	8	<0.5	<3	<3	60	0.06
1892109	Soil	<2	<3	3	<1	13	10	40	<0.3	11	5	301	2.75	8	7	8	<0.5	<3	<3	48	0.08
1892110	Soil	<2	<3	<2	<1	12	7	31	<0.3	7	3	227	2.02	3	4	8	<0.5	<3	<3	35	0.08
1892111	Soil	<2	<3	2	<1	14	7	31	<0.3	7	2	224	2.03	2	2	8	<0.5	<3	<3	34	0.08
1892112	Soil	3	<3	4	<1	19	9	48	<0.3	19	8	297	2.75	8	8	14	<0.5	<3	<3	46	0.16
1892113	Soil	2	<3	<2	<1	10	7	50	<0.3	15	7	378	2.88	6	7	9	<0.5	<3	<3	46	0.12
1892114	Soil	<2	<3	<2	<1	4	3	51	<0.3	12	5	511	3.72	5	11	7	<0.5	<3	<3	47	0.12
1892115	Soil	3	<3	3	1	10	11	50	<0.3	14	7	273	2.99	10	5	10	<0.5	<3	<3	66	0.10
1892116	Soil	4	<3	3	2	12	13	42	<0.3	13	5	236	3.25	10	8	12	<0.5	<3	<3	65	0.11
1892117	Soil	3	<3	<2	<1	7	5	48	<0.3	8	5	560	2.62	4	7	6	<0.5	<3	<3	39	0.10
1892118	Soil	6	<3	3	<1	14	7	62	<0.3	18	7	401	3.11	6	5	10	<0.5	<3	<3	47	0.12
1892119	Soil	<2	<3	<2	<1	7	4	44	<0.3	11	6	594	2.71	2	7	8	<0.5	<3	<3	35	0.16
1892120	Soil	<2	<3	6	<1	5	3	34	<0.3	5	2	460	2.53	<2	12	6	<0.5	<3	<3	18	0.07
1892121	Soil	5	<3	<2	<1	30	10	79	<0.3	11	6	350	3.28	10	4	9	<0.5	<3	<3	56	0.07
1892122	Soil	3	<3	<2	<1	7	10	127	<0.3	10	7	502	4.05	9	4	8	<0.5	<3	<3	79	0.10
1892123	Soil	<2	<3	2	1	8	6	71	<0.3	9	4	241	2.54	6	10	4	<0.5	<3	<3	27	0.04
1892124	Soil	2	<3	<2	2	9	8	90	<0.3	10	5	395	3.10	7	12	5	<0.5	<3	<3	46	0.04
1892125	Soil	5	<3	2	<1	10	11	36	<0.3	12	5	152	2.53	9	4	10	<0.5	<3	<3	51	0.11
1892126	Soil	7	<3	2	1	12	11	54	0.5	11	7	335	3.17	6	6	9	<0.5	<3	<3	51	0.13
1892127	Soil	5	<3	<2	<1	7	8	26	<0.3	7	3	128	1.98	6	5	10	<0.5	<3	<3	44	0.10
1892128	Soil	3	<3	2	<1	13	9	47	<0.3	12	5	222	2.76	8	8	14	<0.5	<3	<3	60	0.14
1892129	Soil	3	<3	2	<1	13	10	47	<0.3	14	6	206	2.92	9	5	11	<0.5	<3	<3	52	0.11
1892130	Soil	3	<3	2	<1	12	8	58	<0.3	13	8	372	3.20	6	9	15	<0.5	<3	<3	57	0.21
1892131	Soil	3	<3	<2	<1	11	8	59	<0.3	12	8	412	3.25	5	8	14	<0.5	<3	<3	56	0.22
1892132	Soil	3	<3	2	1	12	9	67	<0.3	12	5	305	2.81	6	10	11	<0.5	<3	<3	42	0.13
1892133	Soil	2	<3	<2	<1	10	10	54	<0.3	9	5	305	2.50	5	7	9	<0.5	<3	<3	44	0.12
1892134	Soil	4	<3	<2	<1	18	11	63	<0.3	16	8	329	3.13	10	12	12	<0.5	<3	<3	56	0.11
1892135	Soil	4	<3	<2	2	16	12	65	<0.3	15	7	281	3.20	9	9	13	<0.5	<3	<3	56	0.16
1892136	Soil	4	<3	<2	2	14	14	75	<0.3	13	5	301	3.15	7	9	11	<0.5	<3	<3	55	0.11

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Project: EUK-17029-YT
Report Date: October 18, 2017

CERTIFICATE OF ANALYSIS WHI17000891.1

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
1892107	Soil	0.035	12	47	1.05	222	0.180	<20	3.15	<0.01	0.61	<2	<0.05	<1	<5	6	<5
1892108	Soil	0.023	35	38	0.84	163	0.184	<20	2.84	<0.01	0.60	<2	<0.05	<1	<5	<5	<5
1892109	Soil	0.022	15	23	0.51	154	0.100	<20	1.59	<0.01	0.16	<2	<0.05	<1	<5	<5	<5
1892110	Soil	0.067	12	18	0.57	265	0.136	<20	1.26	<0.01	0.37	<2	<0.05	<1	<5	6	<5
1892111	Soil	0.073	12	20	0.56	263	0.131	<20	1.27	<0.01	0.36	<2	<0.05	<1	<5	<5	<5
1892112	Soil	0.041	23	27	0.63	232	0.090	<20	1.82	<0.01	0.11	<2	<0.05	<1	<5	<5	5
1892113	Soil	0.032	20	23	0.88	320	0.157	<20	1.88	<0.01	0.37	<2	<0.05	<1	<5	<5	<5
1892114	Soil	0.019	16	29	1.13	551	0.165	<20	2.67	<0.01	0.48	<2	<0.05	<1	<5	9	8
1892115	Soil	0.028	13	29	0.47	233	0.083	<20	1.91	<0.01	0.06	<2	<0.05	<1	<5	5	<5
1892116	Soil	0.036	18	26	0.51	338	0.094	<20	1.85	<0.01	0.13	<2	<0.05	<1	<5	6	<5
1892117	Soil	0.050	19	17	0.81	255	0.149	<20	1.45	<0.01	0.41	<2	<0.05	<1	<5	5	<5
1892118	Soil	0.034	25	24	1.01	356	0.170	<20	2.22	<0.01	0.40	<2	<0.05	<1	<5	6	6
1892119	Soil	0.045	28	21	0.98	297	0.159	<20	1.78	<0.01	0.52	<2	<0.05	<1	<5	<5	5
1892120	Soil	0.010	13	9	0.91	188	0.081	<20	1.83	<0.01	0.58	<2	<0.05	<1	<5	6	<5
1892121	Soil	0.040	11	27	0.68	294	0.084	<20	2.16	<0.01	0.29	<2	<0.05	<1	<5	7	<5
1892122	Soil	0.061	13	27	0.69	430	0.137	<20	1.99	<0.01	0.29	<2	<0.05	<1	<5	7	5
1892123	Soil	0.020	10	14	0.68	198	0.081	<20	1.70	<0.01	0.20	<2	<0.05	<1	<5	6	<5
1892124	Soil	0.022	16	15	0.90	266	0.146	<20	1.92	<0.01	0.39	<2	<0.05	<1	<5	<5	<5
1892125	Soil	0.046	15	22	0.38	228	0.065	<20	1.41	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1892126	Soil	0.046	17	21	0.76	242	0.115	<20	1.80	<0.01	0.34	<2	<0.05	<1	<5	6	<5
1892127	Soil	0.035	15	16	0.28	173	0.083	<20	1.07	<0.01	0.06	<2	<0.05	<1	<5	5	<5
1892128	Soil	0.025	26	29	0.64	192	0.119	<20	1.70	<0.01	0.11	<2	<0.05	<1	<5	6	5
1892129	Soil	0.030	15	26	0.53	190	0.085	<20	1.82	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
1892130	Soil	0.063	34	25	0.97	380	0.161	<20	2.04	<0.01	0.63	<2	<0.05	<1	<5	6	6
1892131	Soil	0.069	37	24	1.07	402	0.174	<20	2.08	<0.01	0.75	<2	<0.05	<1	<5	<5	6
1892132	Soil	0.035	51	21	0.79	330	0.127	<20	1.80	<0.01	0.36	<2	<0.05	<1	<5	<5	<5
1892133	Soil	0.050	33	21	0.65	287	0.126	<20	1.54	<0.01	0.31	<2	<0.05	<1	<5	6	<5
1892134	Soil	0.023	25	27	0.64	269	0.109	<20	2.02	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892135	Soil	0.027	29	26	0.67	292	0.111	<20	1.94	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892136	Soil	0.036	31	21	0.95	287	0.143	<20	1.97	<0.01	0.25	<2	<0.05	<1	<5	6	<5

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Project: EUK-17029-YT
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CERTIFICATE OF ANALYSIS WHI17000891.1

	Method	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1892137	Soil	3	<3	<2	1	15	12	80	<0.3	15	6	273	3.16	8	7	12	<0.5	<3	<3	54	0.12
1892138	Soil	5	<3	2	1	36	7	73	<0.3	14	5	159	2.52	5	2	11	<0.5	<3	<3	45	0.14
1892139	Soil	3	<3	<2	<1	15	10	70	<0.3	11	5	232	2.37	5	7	14	<0.5	<3	<3	38	0.21
1892140	Soil	7	<3	<2	<1	17	10	65	<0.3	14	7	257	2.28	7	3	17	<0.5	<3	<3	42	0.25
1892141	Soil	13	<3	<2	<1	18	9	67	<0.3	19	9	363	2.42	9	4	25	<0.5	<3	<3	46	0.42
1892142	Soil	10	<3	3	<1	23	9	70	<0.3	23	9	340	2.34	8	2	35	<0.5	<3	<3	47	0.70
1892143	Soil	5	<3	<2	<1	15	9	57	<0.3	16	7	327	2.21	6	4	26	<0.5	<3	<3	39	0.48
1892144	Soil	4	<3	3	<1	11	8	52	<0.3	12	5	165	1.99	7	4	16	<0.5	<3	<3	34	0.24
1892145	Soil	3	<3	3	<1	9	8	55	<0.3	13	7	235	2.42	5	3	17	<0.5	<3	<3	43	0.26
1892146	Soil	4	<3	2	<1	17	8	58	<0.3	19	8	435	2.23	8	2	35	<0.5	<3	<3	40	0.68
1892147	Soil	4	<3	<2	<1	13	10	62	<0.3	15	6	211	2.17	6	5	19	<0.5	<3	<3	39	0.29
1892148	Soil	3	<3	<2	<1	9	7	47	<0.3	11	4	156	1.88	6	<2	16	<0.5	<3	<3	34	0.25
1892149	Soil	6	<3	<2	<1	18	9	58	<0.3	18	8	238	2.30	7	4	24	<0.5	<3	<3	43	0.36
1892150	Soil	7	<3	2	<1	20	9	72	<0.3	15	8	227	2.37	6	4	17	<0.5	<3	<3	44	0.27
1892151	Soil	6	3	2	<1	20	9	74	<0.3	16	8	232	2.40	6	5	17	<0.5	<3	<3	44	0.27
1892152	Soil	4	<3	<2	<1	13	9	50	<0.3	13	5	154	2.34	7	<2	16	<0.5	<3	<3	38	0.19
1892153	Soil	4	<3	<2	<1	9	8	52	<0.3	11	5	181	1.94	6	3	16	<0.5	<3	<3	37	0.23
1892154	Soil	11	<3	<2	<1	6	7	44	<0.3	9	3	112	1.50	4	2	15	<0.5	<3	<3	28	0.21
1892155	Soil	3	<3	<2	<1	9	8	52	<0.3	11	4	146	1.67	4	4	18	<0.5	<3	<3	32	0.26
1892156	Soil	31	<3	3	<1	12	8	50	<0.3	11	5	152	2.26	8	4	15	<0.5	<3	<3	41	0.17
1892157	Soil	4	<3	4	<1	8	8	47	<0.3	10	4	123	1.78	6	<2	13	<0.5	<3	<3	31	0.15
1892158	Soil	3	<3	<2	<1	9	9	46	<0.3	10	3	123	2.00	6	<2	12	<0.5	<3	<3	33	0.12
1892159	Soil	13	<3	<2	<1	11	9	51	<0.3	12	5	131	2.08	7	<2	17	<0.5	<3	<3	37	0.20
1892160	Soil	7	<3	<2	<1	10	8	55	<0.3	12	5	149	2.13	6	3	17	<0.5	<3	<3	35	0.21
1892161	Soil	6	<3	2	1	13	9	57	<0.3	12	6	175	2.25	6	2	15	<0.5	<3	<3	37	0.20
1892162	Soil	3	<3	<2	<1	9	11	51	<0.3	10	4	216	2.26	5	8	13	<0.5	<3	<3	37	0.16
1892163	Soil	3	<3	<2	<1	10	7	48	<0.3	10	5	194	2.19	5	5	12	<0.5	<3	<3	36	0.15
1892164	Soil	3	<3	<2	<1	13	7	48	<0.3	11	5	239	2.38	5	8	15	<0.5	<3	<3	39	0.18
1892165	Soil	2	<3	<2	<1	9	7	42	<0.3	9	4	186	2.06	5	5	12	<0.5	<3	<3	35	0.16
1892166	Soil	<2	<3	2	6	92	5	45	<0.3	7	5	430	4.90	2	10	9	<0.5	<3	<3	57	0.05

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CERTIFICATE OF ANALYSIS WHI17000891.1

	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
1892137	Soil	0.031	40	23	0.73	314	0.113	<20	1.91	<0.01	0.18	<2	<0.05	<1	<5	<5	<5
1892138	Soil	0.045	15	28	0.60	364	0.074	<20	1.31	<0.01	0.18	<2	<0.05	<1	<5	<5	5
1892139	Soil	0.053	33	21	0.53	266	0.077	<20	1.24	<0.01	0.18	<2	<0.05	<1	<5	<5	<5
1892140	Soil	0.059	17	22	0.45	284	0.054	<20	1.22	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
1892141	Soil	0.070	18	24	0.49	371	0.056	<20	1.21	0.01	0.07	<2	<0.05	<1	<5	<5	<5
1892142	Soil	0.078	14	25	0.57	398	0.058	<20	1.15	0.02	0.07	<2	<0.05	<1	<5	<5	<5
1892143	Soil	0.070	16	20	0.44	332	0.061	<20	1.06	0.01	0.09	<2	<0.05	<1	<5	<5	<5
1892144	Soil	0.067	17	18	0.40	222	0.055	<20	1.10	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1892145	Soil	0.063	21	21	0.49	305	0.055	<20	1.23	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1892146	Soil	0.075	13	23	0.49	366	0.047	<20	1.09	0.01	0.06	<2	<0.05	<1	<5	<5	<5
1892147	Soil	0.063	18	22	0.52	288	0.062	<20	1.29	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1892148	Soil	0.062	14	19	0.43	214	0.050	<20	1.12	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
1892149	Soil	0.076	16	22	0.46	316	0.054	<20	1.23	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
1892150	Soil	0.072	18	22	0.56	337	0.073	<20	1.34	<0.01	0.09	<2	<0.05	<1	<5	<5	<5
1892151	Soil	0.071	18	23	0.56	329	0.072	<20	1.40	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
1892152	Soil	0.056	18	19	0.40	294	0.042	<20	1.23	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
1892153	Soil	0.062	20	17	0.44	262	0.056	<20	1.18	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1892154	Soil	0.057	19	15	0.39	179	0.052	<20	1.01	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1892155	Soil	0.057	23	18	0.47	339	0.062	<20	1.19	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1892156	Soil	0.050	22	19	0.43	286	0.070	<20	1.22	<0.01	0.09	<2	<0.05	<1	<5	<5	<5
1892157	Soil	0.045	21	19	0.42	241	0.066	<20	1.20	<0.01	0.09	<2	<0.05	<1	<5	6	<5
1892158	Soil	0.042	22	20	0.47	216	0.073	<20	1.35	<0.01	0.10	<2	<0.05	<1	<5	6	<5
1892159	Soil	0.057	19	20	0.44	262	0.066	<20	1.25	<0.01	0.10	<2	<0.05	<1	<5	6	<5
1892160	Soil	0.063	23	20	0.51	275	0.083	<20	1.39	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
1892161	Soil	0.060	26	20	0.52	274	0.089	<20	1.41	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
1892162	Soil	0.043	27	18	0.69	272	0.125	<20	1.47	<0.01	0.28	<2	<0.05	<1	<5	<5	<5
1892163	Soil	0.048	25	19	0.58	233	0.107	<20	1.35	<0.01	0.24	<2	<0.05	<1	<5	<5	<5
1892164	Soil	0.047	34	22	0.65	368	0.127	<20	1.51	<0.01	0.33	<2	<0.05	<1	<5	<5	<5
1892165	Soil	0.045	25	17	0.59	309	0.109	<20	1.27	<0.01	0.25	<2	<0.05	<1	<5	<5	<5
1892166	Soil	0.068	35	10	1.10	591	0.263	<20	2.35	<0.01	1.21	<2	0.26	<1	<5	7	7

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Method		FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1892167	Soil	4	<3	<2	1	48	6	39	<0.3	9	4	215	2.70	6	6	8	<0.5	<3	<3	36	0.07
1892168	Soil	3	<3	<2	2	39	10	40	<0.3	11	4	182	2.64	7	<2	9	<0.5	<3	<3	45	0.07
1892169	Soil	4	<3	<2	<1	31	7	52	<0.3	15	6	226	2.52	6	2	15	<0.5	<3	<3	42	0.17
1892170	Soil	3	<3	3	<1	70	7	128	<0.3	18	7	262	3.00	4	<2	11	<0.5	<3	<3	75	0.17
1892171	Soil	3	<3	<2	<1	70	6	132	<0.3	18	7	262	3.09	4	<2	10	<0.5	<3	<3	76	0.16
1892172	Soil	3	<3	<2	<1	33	7	78	<0.3	22	7	279	2.74	5	<2	8	<0.5	<3	<3	56	0.10
1892173	Soil	3	<3	4	1	82	6	138	<0.3	25	10	352	3.50	3	<2	15	<0.5	<3	<3	77	0.19
1892174	Soil	4	<3	3	5	244	6	239	<0.3	17	11	678	8.10	5	<2	12	1.0	<3	<3	107	0.19
1892175	Soil	5	<3	2	1	42	8	84	<0.3	16	8	293	3.30	5	<2	11	<0.5	<3	<3	64	0.14
1892176	Soil	5	<3	2	1	32	7	64	<0.3	16	7	267	2.53	4	<2	8	<0.5	<3	<3	60	0.11
1892177	Soil	4	<3	2	1	57	8	64	<0.3	25	7	219	2.72	5	<2	11	<0.5	<3	<3	61	0.12
1892178	Soil	3	<3	3	1	45	11	86	<0.3	17	11	325	2.90	5	2	11	<0.5	<3	<3	67	0.14
1892179	Soil	3	<3	<2	<1	50	8	68	<0.3	16	7	295	3.07	4	<2	10	<0.5	<3	<3	82	0.10
1892180	Soil	2	<3	2	<1	62	6	91	<0.3	78	22	571	3.89	<2	2	12	<0.5	<3	<3	91	0.21
1892181	Soil	2	<3	3	1	109	7	85	<0.3	46	16	596	3.37	3	<2	11	<0.5	<3	<3	43	0.14
1892182	Soil	4	<3	<2	<1	17	8	50	<0.3	17	5	226	2.62	7	<2	15	<0.5	<3	<3	59	0.14
1892183	Soil	4	<3	<2	1	58	7	45	<0.3	20	12	455	3.47	9	<2	9	<0.5	<3	<3	50	0.10
1892184	Soil	5	<3	<2	<1	49	6	52	<0.3	12	10	423	3.50	5	<2	9	<0.5	<3	<3	82	0.13
1892185	Soil	3	<3	<2	<1	29	7	44	<0.3	13	11	364	3.30	7	<2	7	<0.5	<3	<3	80	0.12
1892186	Soil	4	<3	<2	<1	14	11	44	<0.3	12	6	258	3.22	9	<2	8	<0.5	<3	<3	71	0.07
1892187	Soil	4	<3	<2	<1	16	5	44	<0.3	10	9	539	3.61	4	<2	11	<0.5	<3	<3	82	0.23
1892188	Soil	3	<3	<2	<1	10	9	111	<0.3	45	8	274	2.41	4	<2	11	<0.5	<3	<3	50	0.27
1892189	Soil	2	<3	2	<1	10	6	84	<0.3	19	8	423	2.85	5	<2	11	<0.5	<3	<3	53	0.21
1892190	Soil	3	<3	<2	<1	15	9	73	<0.3	21	8	319	3.60	9	<2	8	<0.5	<3	<3	67	0.11
1892191	Soil	3	<3	<2	<1	16	10	75	<0.3	21	8	336	3.79	9	3	8	<0.5	<3	<3	70	0.12
1892192	Soil	4	<3	<2	<1	19	6	72	<0.3	23	11	435	2.77	6	2	13	<0.5	<3	<3	53	0.26
1892193	Soil	<2	<3	<2	<1	8	6	60	<0.3	12	5	325	2.53	4	<2	7	<0.5	<3	<3	53	0.10
1892194	Soil	3	<3	<2	<1	16	7	70	<0.3	21	9	313	2.99	7	2	9	<0.5	<3	<3	52	0.15
1892195	Soil	3	<3	<2	<1	12	9	49	<0.3	16	6	210	2.76	8	<2	9	<0.5	<3	<3	59	0.10
1892196	Soil	2	<3	<2	<1	21	6	82	<0.3	27	8	375	2.55	3	<2	16	<0.5	<3	<3	46	0.35

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Project: EUK-17029-YT

Report Date: October 18, 2017

CERTIFICATE OF ANALYSIS WHI17000891.1

	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
1892167	Soil	0.028	19	19	0.55	171	0.103	<20	1.38	<0.01	0.21	<2	<0.05	<1	<5	<5	<5
1892168	Soil	0.085	16	21	0.44	226	0.097	<20	1.63	<0.01	0.15	<2	<0.05	<1	<5	<5	<5
1892169	Soil	0.045	21	22	0.55	344	0.081	<20	1.43	<0.01	0.09	<2	<0.05	<1	<5	<5	<5
1892170	Soil	0.034	9	30	1.00	572	0.132	<20	1.86	0.01	0.28	<2	<0.05	<1	<5	5	5
1892171	Soil	0.034	9	30	1.03	575	0.135	<20	1.92	0.01	0.28	<2	<0.05	<1	<5	5	5
1892172	Soil	0.029	8	44	0.75	198	0.093	<20	1.56	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892173	Soil	0.036	13	48	1.10	765	0.101	<20	1.78	<0.01	0.33	<2	<0.05	<1	<5	<5	8
1892174	Soil	0.089	11	19	1.34	1950	0.171	<20	1.96	<0.01	1.01	<2	<0.05	<1	<5	6	20
1892175	Soil	0.057	11	37	0.72	350	0.077	<20	1.48	<0.01	0.11	<2	<0.05	<1	<5	<5	7
1892176	Soil	0.040	7	40	0.76	311	0.110	<20	1.40	<0.01	0.19	<2	<0.05	<1	<5	<5	<5
1892177	Soil	0.048	7	62	0.84	413	0.095	<20	1.52	0.01	0.22	<2	0.09	<1	<5	<5	<5
1892178	Soil	0.040	11	29	0.88	363	0.100	<20	1.79	<0.01	0.19	<2	<0.05	<1	<5	<5	6
1892179	Soil	0.050	9	27	1.04	525	0.125	<20	1.97	0.01	0.33	<2	0.07	<1	<5	<5	5
1892180	Soil	0.031	16	202	1.31	451	0.120	<20	2.15	<0.01	0.36	<2	<0.05	<1	<5	<5	11
1892181	Soil	0.041	8	59	0.78	300	0.074	<20	1.41	0.02	0.25	<2	0.08	<1	<5	<5	7
1892182	Soil	0.031	12	55	0.82	298	0.080	<20	1.61	<0.01	0.11	<2	<0.05	<1	<5	<5	6
1892183	Soil	0.027	9	25	0.78	197	0.095	<20	2.27	<0.01	0.26	<2	<0.05	<1	<5	5	6
1892184	Soil	0.029	17	17	0.90	395	0.149	<20	2.04	<0.01	0.37	<2	<0.05	<1	<5	<5	6
1892185	Soil	0.028	7	20	0.68	177	0.128	<20	2.12	<0.01	0.23	<2	<0.05	<1	<5	<5	6
1892186	Soil	0.031	11	29	0.53	181	0.101	<20	2.02	<0.01	0.20	<2	<0.05	<1	<5	<5	6
1892187	Soil	0.075	13	11	1.03	270	0.150	<20	2.28	<0.01	0.45	<2	<0.05	<1	<5	6	11
1892188	Soil	0.047	9	101	1.17	392	0.128	<20	1.75	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
1892189	Soil	0.038	10	91	1.25	486	0.157	<20	2.23	<0.01	0.39	<2	<0.05	<1	<5	<5	<5
1892190	Soil	0.030	8	76	0.97	275	0.132	<20	2.22	<0.01	0.20	<2	<0.05	<1	<5	<5	<5
1892191	Soil	0.032	8	78	0.99	291	0.140	<20	2.33	<0.01	0.20	<2	<0.05	<1	<5	<5	<5
1892192	Soil	0.073	21	49	1.02	413	0.141	<20	2.09	<0.01	0.41	<2	<0.05	<1	<5	<5	<5
1892193	Soil	0.049	4	48	0.83	437	0.167	<20	1.77	<0.01	0.25	<2	<0.05	<1	<5	6	<5
1892194	Soil	0.040	9	44	0.86	259	0.127	<20	2.01	<0.01	0.23	<2	<0.05	<1	<5	<5	<5
1892195	Soil	0.025	10	43	0.61	261	0.096	<20	1.83	<0.01	0.10	<2	<0.05	<1	<5	6	<5
1892196	Soil	0.088	11	59	1.05	568	0.164	<20	1.98	<0.01	0.43	<2	<0.05	<1	<5	<5	<5

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Project: EUK-17029-YT
Report Date: October 18, 2017

CERTIFICATE OF ANALYSIS WHI17000891.1

	Method	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1892197	Soil	<2	<3	<2	<1	13	3	94	<0.3	21	9	497	2.68	2	2	9	<0.5	<3	<3	54	0.31
1892198	Soil	3	<3	<2	<1	16	8	59	<0.3	18	8	314	2.75	6	3	16	<0.5	<3	<3	50	0.35
1892199	Soil	<2	<3	<2	<1	10	7	67	<0.3	14	6	312	2.67	4	<2	9	<0.5	<3	<3	58	0.17
1892200	Soil	2	<3	<2	<1	11	6	79	<0.3	21	9	455	3.00	2	3	11	<0.5	<3	<3	55	0.34
1892227	Soil	5	<3	<2	<1	24	11	55	<0.3	19	8	367	2.31	6	<2	24	<0.5	<3	<3	47	0.34
1892228	Soil	5	<3	2	1	27	12	66	<0.3	20	9	359	3.10	9	<2	19	<0.5	<3	<3	63	0.26
1892229	Soil	10	<3	<2	<1	21	11	57	<0.3	18	11	451	2.58	7	2	13	<0.5	<3	<3	57	0.18
1892230	Soil	4	<3	<2	<1	17	11	60	<0.3	17	11	647	2.85	14	<2	17	<0.5	5	<3	67	0.07
1892231	Soil	6	<3	<2	<1	15	11	58	<0.3	17	9	383	2.80	7	<2	16	<0.5	<3	<3	60	0.33
1892232	Soil	6	<3	<2	<1	26	10	97	<0.3	21	12	501	3.95	4	6	16	<0.5	<3	<3	88	0.52
1892233	Soil	2	<3	<2	<1	16	9	91	<0.3	19	11	464	3.62	8	3	11	<0.5	<3	<3	73	0.27
1892234	Soil	3	<3	<2	<1	17	12	89	<0.3	18	10	437	3.38	4	7	11	<0.5	<3	<3	65	0.23
1892235	Soil	4	4	<2	<1	20	11	65	<0.3	19	9	305	2.80	6	6	15	<0.5	<3	<3	57	0.21
1892236	Soil	4	<3	<2	<1	19	8	71	<0.3	17	11	386	2.96	4	6	15	<0.5	<3	<3	59	0.28
1892237	Soil	7	<3	<2	<1	31	11	100	<0.3	19	24	746	4.65	3	6	24	<0.5	<3	<3	101	0.40
1892238	Soil	4	<3	<2	<1	29	11	81	<0.3	19	10	521	3.23	6	6	14	<0.5	<3	<3	53	0.17
1892239	Soil	4	<3	<2	1	12	13	60	<0.3	12	5	224	2.39	6	4	10	<0.5	<3	<3	37	0.10
1892240	Soil	3	<3	<2	<1	14	12	22	<0.3	6	3	179	1.65	4	<2	10	<0.5	<3	<3	37	0.09
1892241	Soil	3	<3	<2	<1	6	10	16	<0.3	4	2	68	1.18	4	<2	10	<0.5	<3	<3	36	0.09
1892242	Soil	6	<3	<2	<1	24	12	53	<0.3	20	9	293	3.00	12	6	11	<0.5	<3	<3	56	0.10
1892243	Soil	4	<3	<2	<1	22	12	57	<0.3	20	10	401	2.78	10	7	12	<0.5	<3	<3	54	0.14
1892244	Soil	2	<3	<2	<1	23	10	80	<0.3	24	15	438	3.63	6	3	13	<0.5	<3	<3	75	0.26
1892245	Soil	3	<3	<2	<1	20	8	76	<0.3	21	12	497	3.62	6	2	10	<0.5	<3	<3	80	0.18
1892246	Soil	<2	<3	<2	<1	13	6	66	<0.3	14	9	470	2.65	3	<2	9	<0.5	<3	<3	69	0.19
1892247	Soil	3	4	<2	<1	20	9	59	<0.3	22	12	343	3.10	9	4	10	<0.5	<3	<3	72	0.14
1892248	Soil	2	<3	<2	<1	21	6	72	<0.3	28	14	408	3.27	4	<2	11	<0.5	<3	<3	76	0.22
1892251	Soil	8	<3	<2	<1	14	7	51	<0.3	14	8	329	2.48	6	8	11	<0.5	<3	<3	40	0.15
1892252	Soil	2	<3	<2	<1	12	12	44	<0.3	11	4	289	2.25	3	14	13	<0.5	<3	<3	24	0.18
1892253	Soil	2	<3	<2	<1	10	11	47	<0.3	12	6	244	2.60	5	7	11	<0.5	<3	<3	38	0.16
1892254	Soil	4	<3	<2	<1	16	11	46	<0.3	15	7	231	2.87	9	6	11	<0.5	<3	<3	50	0.10

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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
1892197	Soil	0.101	6	61	1.64	359	0.160	<20	2.40	<0.01	0.64	<2	<0.05	<1	<5	<5	<5
1892198	Soil	0.071	15	36	0.69	514	0.077	<20	1.51	<0.01	0.16	<2	<0.05	<1	<5	<5	7
1892199	Soil	0.086	5	42	0.93	223	0.161	<20	1.81	<0.01	0.23	<2	<0.05	<1	<5	<5	<5
1892200	Soil	0.080	10	70	1.22	527	0.161	<20	2.08	<0.01	0.55	<2	<0.05	<1	<5	<5	<5
1892227	Soil	0.051	16	27	0.42	537	0.069	<20	1.31	<0.01	0.06	<2	<0.05	<1	<5	<5	6
1892228	Soil	0.057	16	35	0.46	578	0.061	<20	1.94	<0.01	0.07	<2	<0.05	<1	<5	<5	7
1892229	Soil	0.051	10	34	0.42	320	0.065	<20	1.18	<0.01	0.07	<2	<0.05	<1	<5	<5	6
1892230	Soil	0.032	7	32	0.23	215	0.046	<20	0.71	<0.01	0.07	<2	<0.05	1	<5	<5	9
1892231	Soil	0.054	17	42	0.60	683	0.085	<20	1.55	<0.01	0.08	<2	<0.05	<1	<5	<5	6
1892232	Soil	0.115	23	82	1.32	1053	0.187	<20	2.19	<0.01	0.56	<2	<0.05	<1	<5	<5	11
1892233	Soil	0.109	7	60	1.17	460	0.155	<20	2.46	<0.01	0.46	<2	<0.05	<1	<5	5	6
1892234	Soil	0.056	14	58	1.24	620	0.174	<20	2.21	<0.01	0.51	<2	<0.05	<1	<5	<5	8
1892235	Soil	0.031	21	46	0.85	459	0.120	<20	1.81	<0.01	0.13	<2	<0.05	<1	<5	<5	6
1892236	Soil	0.043	27	50	1.20	558	0.163	<20	2.08	<0.01	0.44	<2	<0.05	<1	<5	<5	6
1892237	Soil	0.060	46	51	1.94	788	0.168	<20	2.75	<0.01	0.73	<2	<0.05	<1	<5	<5	7
1892238	Soil	0.021	77	32	0.93	446	0.154	<20	1.98	<0.01	0.30	<2	<0.05	<1	<5	<5	13
1892239	Soil	0.026	19	20	0.44	276	0.071	<20	1.37	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
1892240	Soil	0.076	13	16	0.11	311	0.029	<20	1.06	<0.01	0.05	<2	<0.05	<1	<5	5	<5
1892241	Soil	0.036	12	13	0.09	267	0.027	<20	0.85	<0.01	0.05	<2	<0.05	<1	<5	5	<5
1892242	Soil	0.020	22	35	0.49	620	0.060	<20	2.02	<0.01	0.05	<2	<0.05	<1	<5	5	6
1892243	Soil	0.032	16	35	0.53	412	0.072	<20	1.87	<0.01	0.07	<2	<0.05	<1	<5	<5	5
1892244	Soil	0.060	11	77	1.16	521	0.148	<20	2.46	<0.01	0.37	<2	<0.05	<1	<5	6	<5
1892245	Soil	0.047	7	61	1.26	237	0.168	<20	2.76	<0.01	0.40	<2	<0.05	<1	<5	8	<5
1892246	Soil	0.046	4	55	1.27	361	0.228	<20	2.04	<0.01	0.70	<2	<0.05	<1	<5	8	<5
1892247	Soil	0.032	10	55	1.00	278	0.139	<20	2.10	<0.01	0.26	<2	<0.05	<1	<5	7	<5
1892248	Soil	0.028	8	90	1.62	681	0.221	<20	2.70	<0.01	0.50	<2	<0.05	<1	<5	5	<5
1892251	Soil	0.036	21	26	0.69	239	0.119	<20	1.64	<0.01	0.27	<2	<0.05	<1	<5	<5	<5
1892252	Soil	0.041	75	16	0.68	434	0.100	<20	1.41	<0.01	0.49	<2	<0.05	<1	<5	<5	<5
1892253	Soil	0.050	29	22	0.64	284	0.134	<20	1.61	<0.01	0.37	<2	<0.05	<1	<5	6	<5
1892254	Soil	0.020	33	28	0.54	312	0.106	<20	1.89	<0.01	0.13	<2	<0.05	<1	<5	6	<5

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Method		FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1892255	Soil	3	<3	<2	<1	11	9	44	<0.3	11	6	297	2.29	5	7	10	<0.5	<3	<3	34	0.13
1892256	Soil	3	<3	<2	<1	10	10	48	<0.3	9	5	250	2.33	5	8	9	<0.5	<3	<3	32	0.11
1892257	Soil	4	<3	<2	<1	10	10	52	<0.3	10	6	292	2.48	5	9	10	<0.5	<3	<3	35	0.12
1892258	Soil	5	4	<2	<1	9	10	46	<0.3	10	5	247	2.19	5	8	9	<0.5	<3	<3	33	0.10
1892259	Soil	8	<3	<2	<1	25	6	46	<0.3	10	4	162	2.02	6	3	12	<0.5	<3	<3	34	0.16
1892260	Soil	7	<3	<2	<1	10	7	31	<0.3	6	2	74	1.48	3	<2	10	<0.5	<3	<3	18	0.12
1892261	Soil	9	<3	<2	<1	9	7	31	<0.3	7	2	75	1.43	4	<2	10	<0.5	<3	<3	18	0.11
1892262	Soil	9	<3	<2	1	19	11	53	<0.3	12	5	153	2.36	8	<2	14	<0.5	<3	<3	37	0.16
1892263	Soil	6	<3	<2	2	34	11	69	<0.3	15	5	200	2.60	7	5	14	<0.5	<3	<3	40	0.12
1892264	Soil	4	3	2	2	31	9	84	<0.3	18	8	283	2.86	9	6	12	<0.5	<3	<3	43	0.10
1892265	Soil	3	<3	<2	1	33	9	59	<0.3	14	6	235	3.15	8	<2	12	<0.5	<3	<3	58	0.12
1892266	Soil	8	4	3	2	88	7	109	0.5	14	9	416	4.55	4	<2	15	<0.5	<3	<3	72	0.17
1892267	Soil	5	3	2	<1	26	7	55	<0.3	11	5	158	2.31	4	<2	13	<0.5	<3	<3	46	0.16
1892286	Soil	7	<3	<2	2	43	18	77	<0.3	30	12	465	3.12	29	3	18	<0.5	<3	<3	58	0.14
1892287	Soil	4	3	2	1	26	16	59	<0.3	19	8	251	2.84	18	3	12	<0.5	<3	<3	60	0.10
1892288	Soil	6	<3	<2	1	37	20	60	<0.3	24	10	285	2.60	24	3	14	<0.5	<3	<3	49	0.10
1892289	Soil	8	<3	<2	1	29	13	61	<0.3	24	12	366	2.84	16	5	14	<0.5	<3	<3	55	0.11
1892290	Soil	5	3	<2	<1	26	14	49	<0.3	22	8	261	2.94	13	6	12	<0.5	<3	<3	59	0.11
1892291	Soil	6	<3	<2	<1	29	13	52	<0.3	22	9	283	2.90	11	8	12	<0.5	<3	<3	57	0.10
1892292	Soil	2	<3	<2	<1	12	21	78	<0.3	14	7	528	2.71	8	12	11	<0.5	<3	<3	38	0.14
1892293	Soil	2	<3	<2	<1	9	13	78	<0.3	15	8	934	3.32	10	14	13	<0.5	<3	<3	50	0.16
1892294	Soil	3	<3	<2	<1	14	14	66	<0.3	17	8	272	3.03	14	10	10	<0.5	<3	<3	48	0.09
1892295	Soil	4	<3	<2	<1	10	14	40	<0.3	10	5	223	2.65	9	5	10	<0.5	<3	<3	54	0.10
1892296	Soil	2	<3	<2	<1	19	9	64	<0.3	35	14	378	3.88	7	5	16	<0.5	<3	<3	78	0.33
1892297	Soil	5	<3	2	<1	18	10	55	<0.3	19	9	343	2.93	10	5	14	<0.5	<3	<3	50	0.17
1892298	Soil	2	<3	<2	<1	16	15	128	<0.3	21	13	507	4.68	8	8	12	<0.5	<3	<3	70	0.19
1892299	Soil	3	<3	<2	<1	14	13	59	<0.3	17	10	408	3.74	8	6	13	<0.5	<3	<3	79	0.16
1892300	Soil	4	<3	<2	<1	13	12	59	<0.3	17	10	378	3.49	8	6	13	<0.5	<3	<3	73	0.15
1892301	Soil	4	<3	<2	<1	18	8	64	<0.3	66	10	305	2.83	8	3	20	<0.5	<3	<3	48	0.32
1892302	Soil	3	<3	<2	<1	25	6	64	<0.3	477	30	511	3.56	4	4	18	<0.5	<3	<3	50	0.46

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Project: EUK-17029-YT
Report Date: October 18, 2017

CERTIFICATE OF ANALYSIS WHI17000891.1

	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
1892255	Soil	0.030	31	19	0.53	284	0.118	<20	1.37	<0.01	0.25	<2	<0.05	<1	<5	<5	<5
1892256	Soil	0.045	39	15	0.49	335	0.123	<20	1.45	<0.01	0.32	<2	<0.05	<1	<5	6	<5
1892257	Soil	0.034	30	18	0.59	295	0.114	<20	1.57	<0.01	0.28	<2	<0.05	<1	<5	<5	<5
1892258	Soil	0.031	26	17	0.53	297	0.093	<20	1.35	<0.01	0.18	<2	<0.05	<1	<5	5	<5
1892259	Soil	0.049	24	17	0.44	261	0.072	<20	1.12	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
1892260	Soil	0.038	11	13	0.27	146	0.036	<20	0.79	<0.01	0.06	<2	0.06	<1	<5	<5	<5
1892261	Soil	0.036	11	13	0.27	137	0.036	<20	0.78	<0.01	0.06	<2	0.06	<1	<5	<5	<5
1892262	Soil	0.058	13	20	0.41	207	0.042	<20	1.22	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1892263	Soil	0.047	21	23	0.54	255	0.085	<20	1.45	<0.01	0.18	<2	0.08	<1	<5	<5	<5
1892264	Soil	0.033	17	23	0.60	314	0.086	<20	1.54	<0.01	0.21	<2	<0.05	<1	<5	<5	<5
1892265	Soil	0.039	14	28	0.62	320	0.095	<20	1.75	<0.01	0.19	<2	<0.05	<1	<5	7	5
1892266	Soil	0.064	14	25	1.35	855	0.172	<20	2.30	0.01	0.87	<2	0.18	<1	<5	7	10
1892267	Soil	0.044	13	20	0.62	284	0.074	<20	1.31	<0.01	0.17	<2	<0.05	<1	<5	6	<5
1892286	Soil	0.039	19	54	0.57	459	0.061	<20	1.84	<0.01	0.07	<2	<0.05	<1	<5	<5	5
1892287	Soil	0.023	18	31	0.45	301	0.048	<20	1.79	<0.01	0.05	<2	<0.05	<1	<5	6	<5
1892288	Soil	0.029	21	28	0.44	279	0.044	<20	1.55	<0.01	0.04	<2	<0.05	<1	<5	5	5
1892289	Soil	0.016	16	31	0.51	354	0.054	<20	1.86	<0.01	0.04	<2	<0.05	<1	<5	6	6
1892290	Soil	0.016	16	33	0.46	364	0.066	<20	2.29	<0.01	0.04	<2	<0.05	<1	<5	<5	<5
1892291	Soil	0.016	19	31	0.48	312	0.069	<20	2.13	<0.01	0.05	<2	<0.05	<1	<5	<5	6
1892292	Soil	0.026	61	27	0.39	174	0.062	<20	1.79	<0.01	0.27	<2	<0.05	<1	<5	5	<5
1892293	Soil	0.040	23	24	0.49	305	0.096	<20	2.19	<0.01	0.35	<2	<0.05	<1	<5	8	<5
1892294	Soil	0.020	29	26	0.47	230	0.109	<20	2.11	<0.01	0.26	<2	<0.05	<1	<5	6	<5
1892295	Soil	0.025	12	25	0.43	185	0.079	<20	1.70	<0.01	0.10	<2	<0.05	<1	<5	7	<5
1892296	Soil	0.101	28	90	1.25	494	0.156	<20	2.71	<0.01	0.57	<2	<0.05	<1	<5	9	<5
1892297	Soil	0.048	26	30	0.64	263	0.083	<20	1.85	<0.01	0.14	<2	<0.05	<1	<5	7	<5
1892298	Soil	0.068	48	57	1.56	378	0.209	<20	3.29	<0.01	1.10	<2	<0.05	<1	<5	13	8
1892299	Soil	0.046	18	67	0.93	451	0.116	<20	2.35	<0.01	0.37	<2	<0.05	<1	<5	6	8
1892300	Soil	0.041	20	58	0.92	433	0.118	<20	2.30	<0.01	0.33	<2	<0.05	<1	<5	8	8
1892301	Soil	0.058	15	73	0.59	468	0.066	<20	1.40	<0.01	0.08	<2	<0.05	<1	<5	7	<5
1892302	Soil	0.074	20	311	1.33	556	0.105	<20	1.72	<0.01	0.30	<2	<0.05	<1	<5	7	7

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Project: EUK-17029-YT
Report Date: October 18, 2017

CERTIFICATE OF ANALYSIS WHI17000891.1

	Method	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1892303	Soil	4	<3	<2	<1	14	8	62	<0.3	28	10	449	2.87	5	4	18	<0.5	<3	<3	57	0.35
1892304	Soil	<2	<3	<2	<1	16	10	53	<0.3	25	8	272	2.50	5	<2	19	<0.5	<3	<3	55	0.36
1892305	Soil	20	<3	<2	<1	17	8	71	<0.3	24	9	363	2.59	4	4	15	<0.5	<3	<3	53	0.24
1892306	Soil	3	<3	<2	<1	15	7	67	<0.3	21	7	347	2.48	3	3	12	<0.5	<3	<3	49	0.25
1892307	Soil	5	<3	<2	1	21	10	81	<0.3	26	11	464	3.19	7	3	19	<0.5	<3	<3	63	0.26
1892308	Soil	8	3	<2	<1	16	10	63	<0.3	18	11	422	2.59	7	2	14	<0.5	<3	<3	50	0.20
1892401	Soil	4	<3	<2	<1	12	12	62	<0.3	16	7	393	2.96	11	4	11	<0.5	<3	<3	55	0.12
1892402	Soil	2	<3	<2	<1	13	12	60	<0.3	16	10	376	3.50	10	5	12	<0.5	<3	<3	64	0.12
1892403	Soil	3	<3	<2	<1	7	7	46	<0.3	11	7	347	3.14	7	6	9	<0.5	<3	<3	43	0.10
1892404	Soil	<2	<3	<2	<1	10	9	77	<0.3	10	5	287	2.75	3	7	9	<0.5	<3	<3	40	0.12
1892405	Soil	<2	3	<2	<1	7	6	49	<0.3	10	5	316	2.66	5	9	6	<0.5	<3	<3	36	0.07
1892406	Soil	2	<3	<2	2	12	10	63	<0.3	15	7	273	2.86	10	6	12	<0.5	<3	<3	47	0.11
1892407	Soil	5	<3	<2	1	14	12	53	<0.3	17	8	252	3.18	11	5	19	<0.5	<3	<3	50	0.16
1892408	Soil	4	<3	<2	1	6	29	54	<0.3	7	4	228	2.43	5	5	11	<0.5	<3	<3	40	0.13
1892409	Soil	2	<3	<2	1	10	12	62	<0.3	11	5	209	2.76	8	6	8	<0.5	<3	<3	43	0.08
1892410	Soil	<2	<3	<2	<1	9	11	61	<0.3	16	10	387	3.54	5	5	16	<0.5	<3	<3	56	0.22
1892411	Soil	<2	<3	<2	<1	7	5	36	<0.3	16	13	480	4.42	<2	4	16	<0.5	<3	<3	71	0.26
1892412	Soil	<2	<3	<2	<1	7	7	41	<0.3	15	10	710	2.51	3	2	14	<0.5	<3	<3	47	0.20
1892413	Soil	2	3	2	<1	10	8	45	<0.3	16	8	249	2.53	7	3	15	<0.5	<3	<3	46	0.20
1892414	Soil	<2	<3	<2	2	16	11	65	<0.3	11	11	484	4.15	3	8	14	<0.5	<3	<3	77	0.15

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Project: EUK-17029-YT
Report Date: October 18, 2017

CERTIFICATE OF ANALYSIS WHI17000891.1

	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
1892303	Soil	0.058	17	108	1.01	736	0.124	<20	1.87	<0.01	0.38	<2	<0.05	<1	<5	8	6
1892304	Soil	0.049	15	55	0.58	719	0.076	<20	1.53	<0.01	0.11	<2	<0.05	<1	<5	5	6
1892305	Soil	0.055	15	46	0.59	657	0.098	<20	1.38	<0.01	0.16	<2	<0.05	<1	<5	5	7
1892306	Soil	0.072	18	48	0.53	802	0.094	<20	1.16	<0.01	0.22	<2	<0.05	<1	<5	5	8
1892307	Soil	0.058	19	49	0.58	824	0.082	<20	1.90	<0.01	0.09	<2	<0.05	<1	<5	6	8
1892308	Soil	0.056	15	34	0.48	371	0.069	<20	1.54	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1892401	Soil	0.048	11	25	0.51	238	0.069	<20	1.78	<0.01	0.12	<2	<0.05	<1	<5	7	<5
1892402	Soil	0.032	11	23	0.88	284	0.143	<20	2.24	<0.01	0.48	<2	<0.05	<1	<5	8	<5
1892403	Soil	0.023	8	25	1.10	229	0.200	<20	2.24	<0.01	0.52	<2	<0.05	<1	<5	8	<5
1892404	Soil	0.045	18	19	1.06	218	0.110	<20	1.80	<0.01	0.17	<2	<0.05	<1	<5	11	<5
1892405	Soil	0.018	23	22	1.63	440	0.190	<20	2.42	<0.01	0.46	<2	<0.05	<1	<5	9	<5
1892406	Soil	0.034	13	24	0.79	370	0.085	<20	1.93	<0.01	0.25	<2	<0.05	<1	<5	6	<5
1892407	Soil	0.035	14	25	0.86	456	0.102	<20	1.91	<0.01	0.30	<2	0.09	<1	<5	7	<5
1892408	Soil	0.047	17	12	0.77	373	0.113	<20	1.37	<0.01	0.24	<2	0.05	<1	<5	7	<5
1892409	Soil	0.027	17	17	0.78	219	0.101	<20	1.65	<0.01	0.14	<2	<0.05	<1	<5	7	<5
1892410	Soil	0.035	10	29	1.27	712	0.199	<20	2.14	<0.01	0.88	<2	<0.05	<1	<5	8	<5
1892411	Soil	0.046	7	44	1.78	779	0.377	<20	2.67	<0.01	1.52	<2	<0.05	<1	<5	13	6
1892412	Soil	0.025	12	26	0.79	726	0.121	<20	1.71	<0.01	0.12	<2	<0.05	<1	<5	7	<5
1892413	Soil	0.018	10	26	0.68	436	0.114	<20	1.39	<0.01	0.27	<2	<0.05	<1	<5	5	<5
1892414	Soil	0.023	15	33	1.79	721	0.281	<20	2.31	<0.01	1.33	<2	0.08	<1	<5	8	7

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Whitehorse Yukon Y1A 5Y9 Canada

Project: EUK-17029-YT

Report Date: October 18, 2017

QUALITY CONTROL REPORT WHI17000891.1

Method		FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		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																					
1891942	Soil	<2	<3	<2	<1	12	12	82	<0.3	21	11	336	3.21	11	3	19	<0.5	<3	<3	61	0.20
REP 1891942	QC				<1	12	11	81	<0.3	20	11	335	3.21	12	5	18	<0.5	<3	<3	61	0.20
1891948	Soil	4	<3	<2	<1	27	14	72	<0.3	24	12	312	3.36	13	12	9	<0.5	<3	<3	36	0.09
REP 1891948	QC	5	<3	3																	
1892004	Soil	2	<3	3	<1	21	6	52	<0.3	12	6	252	2.38	6	<2	13	<0.5	<3	<3	59	0.16
REP 1892004	QC				<1	20	6	51	<0.3	12	6	249	2.39	6	2	13	<0.5	<3	<3	59	0.16
1892009	Soil	<2	<3	2	<1	11	6	45	<0.3	11	5	207	2.44	6	5	9	<0.5	<3	<3	47	0.12
REP 1892009	QC	2	<3	<2																	
1892040	Soil	4	<3	<2	<1	11	7	48	<0.3	14	6	241	2.54	7	3	13	<0.5	<3	<3	39	0.14
REP 1892040	QC				<1	11	7	49	<0.3	14	6	241	2.54	8	4	13	<0.5	<3	<3	40	0.13
1892044	Soil	6	<3	<2	<1	13	10	49	<0.3	13	7	286	2.52	5	7	10	<0.5	<3	<3	48	0.12
REP 1892044	QC	<2	5	<2																	
1892076	Soil	2	<3	2	<1	12	6	43	<0.3	11	4	161	1.91	5	7	13	<0.5	<3	<3	32	0.17
REP 1892076	QC				<1	12	6	43	<0.3	11	4	163	1.92	5	7	14	<0.5	<3	<3	32	0.17
1892079	Soil	9	<3	3	<1	12	7	40	<0.3	10	3	93	1.58	5	<2	12	<0.5	<3	<3	25	0.16
REP 1892079	QC	9	<3	6																	
1892112	Soil	3	<3	4	<1	19	9	48	<0.3	19	8	297	2.75	8	8	14	<0.5	<3	<3	46	0.16
REP 1892112	QC				<1	18	9	49	<0.3	19	8	299	2.77	8	8	15	<0.5	<3	<3	46	0.17
1892114	Soil	<2	<3	<2	<1	4	3	51	<0.3	12	5	511	3.72	5	11	7	<0.5	<3	<3	47	0.12
REP 1892114	QC	<2	<3	3																	
1892148	Soil	3	<3	<2	<1	9	7	47	<0.3	11	4	156	1.88	6	<2	16	<0.5	<3	<3	34	0.25
REP 1892148	QC				<1	9	7	48	<0.3	11	4	155	1.86	6	<2	16	<0.5	<3	<3	34	0.24
1892149	Soil	6	<3	<2	<1	18	9	58	<0.3	18	8	238	2.30	7	4	24	<0.5	<3	<3	43	0.36
REP 1892149	QC	7	<3	<2																	
1892184	Soil	5	<3	<2	<1	49	6	52	<0.3	12	10	423	3.50	5	<2	9	<0.5	<3	<3	82	0.13
REP 1892184	QC	5	<3	<2	<1	49	6	51	<0.3	12	10	414	3.43	5	<2	9	<0.5	<3	<3	80	0.13
1892245	Soil	3	<3	<2	<1	20	8	76	<0.3	21	12	497	3.62	6	2	10	<0.5	<3	<3	80	0.18
REP 1892245	QC	5	<3	2																	

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Project: EUK-17029-YT
Report Date: October 18, 2017

QUALITY CONTROL REPORT WHI17000891.1

	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
Pulp Duplicates																	
1891942	Soil	0.039	9	39	0.71	198	0.099	<20	2.17	<0.01	0.17	<2	<0.05	<1	<5	5	<5
REP 1891942	QC	0.039	9	38	0.70	197	0.099	<20	2.16	<0.01	0.17	<2	<0.05	<1	<5	6	<5
1891948	Soil	0.018	42	29	0.52	177	0.071	<20	1.77	<0.01	0.17	<2	<0.05	<1	<5	<5	<5
REP 1891948	QC																
1892004	Soil	0.027	12	38	0.68	216	0.115	<20	1.32	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
REP 1892004	QC	0.027	12	37	0.68	216	0.114	<20	1.32	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
1892009	Soil	0.033	13	29	0.61	174	0.114	<20	1.32	<0.01	0.17	<2	<0.05	<1	<5	<5	<5
REP 1892009	QC																
1892040	Soil	0.035	15	21	0.92	302	0.122	<20	1.83	<0.01	0.26	<2	<0.05	<1	<5	<5	<5
REP 1892040	QC	0.034	16	22	0.93	300	0.120	<20	1.81	<0.01	0.26	<2	<0.05	<1	<5	<5	<5
1892044	Soil	0.028	22	25	0.80	282	0.129	<20	1.75	<0.01	0.37	<2	<0.05	<1	<5	<5	<5
REP 1892044	QC																
1892076	Soil	0.040	22	18	0.50	242	0.089	<20	1.18	<0.01	0.20	<2	<0.05	<1	<5	<5	<5
REP 1892076	QC	0.041	23	18	0.51	246	0.090	<20	1.20	<0.01	0.20	<2	<0.05	<1	<5	<5	<5
1892079	Soil	0.044	11	14	0.31	179	0.036	<20	0.90	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
REP 1892079	QC																
1892112	Soil	0.041	23	27	0.63	232	0.090	<20	1.82	<0.01	0.11	<2	<0.05	<1	<5	<5	5
REP 1892112	QC	0.042	23	27	0.64	233	0.090	<20	1.84	<0.01	0.11	<2	<0.05	<1	<5	<5	6
1892114	Soil	0.019	16	29	1.13	551	0.165	<20	2.67	<0.01	0.48	<2	<0.05	<1	<5	9	8
REP 1892114	QC																
1892148	Soil	0.062	14	19	0.43	214	0.050	<20	1.12	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
REP 1892148	QC	0.061	14	20	0.43	209	0.048	<20	1.09	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
1892149	Soil	0.076	16	22	0.46	316	0.054	<20	1.23	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
REP 1892149	QC																
1892184	Soil	0.029	17	17	0.90	395	0.149	<20	2.04	<0.01	0.37	<2	<0.05	<1	<5	<5	6
REP 1892184	QC	0.029	17	16	0.89	388	0.146	<20	2.00	<0.01	0.37	<2	<0.05	<1	<5	7	6
1892245	Soil	0.047	7	61	1.26	237	0.168	<20	2.76	<0.01	0.40	<2	<0.05	<1	<5	8	<5
REP 1892245	QC																

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		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
1892246	Soil	<2	<3	<2	<1	13	6	66	<0.3	14	9	470	2.65	3	<2	9	<0.5	<3	<3	69	0.19
REP 1892246	QC				<1	13	7	64	<0.3	14	9	456	2.58	3	<2	9	<0.5	<3	<3	68	0.20
1892292	Soil	2	<3	<2	<1	12	21	78	<0.3	14	7	528	2.71	8	12	11	<0.5	<3	<3	38	0.14
REP 1892292	QC				<1	12	20	74	<0.3	14	6	519	2.70	8	14	10	<0.5	<3	<3	38	0.14
1892300	Soil	4	<3	<2	<1	13	12	59	<0.3	17	10	378	3.49	8	6	13	<0.5	<3	<3	73	0.15
REP 1892300	QC	3	4	<2																	
1892301	Soil	4	<3	<2	<1	18	8	64	<0.3	66	10	305	2.83	8	3	20	<0.5	<3	<3	48	0.32
REP 1892301	QC				<1	18	8	62	<0.3	64	11	299	2.76	8	3	20	<0.5	<3	<3	48	0.31
Reference Materials																					
STD CDN-PGMS-19	Standard	204	108	494																	
STD CDN-PGMS-23	Standard	503	502	2291																	
STD CDN-PGMS-19	Standard	228	104	493																	
STD CDN-PGMS-23	Standard	500	494	2230																	
STD CDN-PGMS-19	Standard	227	107	501																	
STD CDN-PGMS-23	Standard	518	493	2258																	
STD CDN-PGMS-19	Standard	250	116	506																	
STD CDN-PGMS-19	Standard	209	112	498																	
STD CDN-PGMS-19	Standard	235	119	530																	
STD CDN-PGMS-23	Standard	488	478	2185																	
STD CDN-PGMS-19	Standard	206	110	487																	
STD CDN-PGMS-19	Standard	224	121	503																	
STD CDN-PGMS-23	Standard	490	479	2188																	
STD CDN-PGMS-19	Standard	194	106	473																	
STD CDN-PGMS-23	Standard	484	438	2071																	
STD CDN-PGMS-19	Standard	239	111	479																	
STD DS11	Standard				13	143	129	327	1.5	74	12	982	2.93	42	5	63	2.2	6	10	46	1.00
STD DS11	Standard				12	139	128	322	1.6	74	12	958	2.87	43	4	62	2.1	6	10	46	0.99
STD DS11	Standard				13	143	129	330	1.4	75	12	994	2.97	42	3	64	2.1	5	10	47	1.01
STD DS11	Standard				13	151	141	347	2.0	77	13	1042	3.11	44	5	67	2.3	6	12	49	1.06

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		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
1892246	Soil	0.046	4	55	1.27	361	0.228	<20	2.04	<0.01	0.70	<2	<0.05	<1	<5	8	<5
REP 1892246	QC	0.049	4	54	1.23	350	0.223	<20	1.98	<0.01	0.67	<2	<0.05	<1	<5	7	<5
1892292	Soil	0.026	61	27	0.39	174	0.062	<20	1.79	<0.01	0.27	<2	<0.05	<1	<5	5	<5
REP 1892292	QC	0.026	59	27	0.37	167	0.062	<20	1.78	<0.01	0.26	<2	<0.05	<1	<5	<5	<5
1892300	Soil	0.041	20	58	0.92	433	0.118	<20	2.30	<0.01	0.33	<2	<0.05	<1	<5	8	8
REP 1892300	QC																
1892301	Soil	0.058	15	73	0.59	468	0.066	<20	1.40	<0.01	0.08	<2	<0.05	<1	<5	7	<5
REP 1892301	QC	0.058	15	71	0.57	459	0.065	<20	1.36	<0.01	0.08	<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																
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STD CDN-PGMS-23	Standard																
STD CDN-PGMS-19	Standard																
STD CDN-PGMS-23	Standard																
STD CDN-PGMS-19	Standard																
STD DS11	Standard	0.068	16	55	0.81	417	0.083	34	1.07	0.07	0.39	3	0.27	<1	5	<5	<5
STD DS11	Standard	0.066	15	55	0.79	406	0.082	<20	1.04	0.07	0.38	3	0.27	<1	<5	<5	<5
STD DS11	Standard	0.068	16	56	0.80	421	0.087	<20	1.08	0.07	0.39	3	0.27	<1	<5	<5	<5
STD DS11	Standard	0.071	17	59	0.84	438	0.090	<20	1.13	0.07	0.41	2	0.29	<1	<5	<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	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				13	148	136	342	1.8	78	13	1054	3.09	42	4	66	2.3	6	10	48	1.05
STD DS11	Standard				13	151	134	346	1.6	77	13	1083	3.16	44	4	67	2.3	6	11	49	1.05
STD DS11	Standard				13	145	130	338	1.4	75	12	993	2.96	42	3	63	2.1	6	10	46	1.02
STD DS11	Standard				13	150	138	350	1.5	78	14	1072	3.16	42	7	65	2.1	5	10	50	1.08
STD DS11	Standard				12	142	133	331	1.5	75	12	985	2.93	42	6	60	2.2	7	11	47	1.00
STD OREAS45EA	Standard				1	671	21	30	<0.3	363	50	394	20.34	5	7	4	0.7	<3	<3	293	0.04
STD OREAS45EA	Standard				1	664	19	27	<0.3	360	49	394	20.68	5	8	4	<0.5	<3	<3	290	0.04
STD OREAS45EA	Standard				2	672	16	28	<0.3	379	52	394	20.61	5	7	4	<0.5	<3	<3	302	0.04
STD OREAS45EA	Standard				2	720	18	30	<0.3	393	53	425	23.32	5	7	4	<0.5	<3	<3	313	0.04
STD OREAS45EA	Standard				1	679	21	30	<0.3	375	51	404	21.56	5	8	4	0.6	<3	<3	302	0.04
STD OREAS45EA	Standard				2	721	19	30	<0.3	393	53	420	22.24	6	7	4	0.7	<3	<3	314	0.04
STD OREAS45EA	Standard				1	678	18	28	<0.3	362	49	399	21.44	5	7	3	<0.5	<3	<3	290	0.04
STD OREAS45EA	Standard				1	687	13	30	<0.3	381	53	411	21.06	5	7	4	<0.5	<3	<3	304	0.04
STD OREAS45EA	Standard				2	701	15	38	0.3	390	54	421	22.47	5	8	4	<0.5	<3	<3	314	0.04
STD OREAS45EA	Standard				1	662	21	29	<0.3	367	50	388	20.15	6	7	3	<0.5	<3	<3	292	0.04
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	<2	<3	2																	
BLK	Blank	<2	<3	2																	
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				<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

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		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	16	58	0.84	443	0.087	<20	1.13	0.07	0.41	3	0.29	<1	<5	<5	<5
STD DS11	Standard	0.073	17	59	0.84	442	0.091	<20	1.13	0.07	0.41	3	0.29	<1	<5	<5	<5
STD DS11	Standard	0.069	16	55	0.82	416	0.084	<20	1.06	0.07	0.39	3	0.28	<1	<5	<5	<5
STD DS11	Standard	0.073	17	58	0.88	430	0.089	<20	1.13	0.07	0.41	3	0.29	<1	6	<5	<5
STD DS11	Standard	0.068	16	55	0.83	406	0.083	<20	1.05	0.07	0.39	<2	0.27	<1	<5	<5	<5
STD OREAS45EA	Standard	0.029	7	836	0.09	144	0.095	<20	3.07	0.01	0.05	<2	<0.05	<1	<5	20	80
STD OREAS45EA	Standard	0.028	7	826	0.09	142	0.097	<20	3.13	0.02	0.05	<2	<0.05	<1	<5	17	77
STD OREAS45EA	Standard	0.029	7	873	0.09	147	0.099	<20	3.19	0.02	0.06	<2	<0.05	<1	<5	23	81
STD OREAS45EA	Standard	0.031	7	903	0.10	153	0.102	<20	3.47	0.02	0.06	<2	<0.05	<1	<5	15	86
STD OREAS45EA	Standard	0.030	7	865	0.09	148	0.096	<20	3.20	0.02	0.06	<2	<0.05	<1	<5	19	82
STD OREAS45EA	Standard	0.031	8	901	0.10	151	0.104	<20	3.42	0.02	0.06	<2	<0.05	<1	<5	22	85
STD OREAS45EA	Standard	0.029	7	820	0.09	139	0.098	<20	3.14	0.01	0.05	<2	<0.05	<1	<5	13	78
STD OREAS45EA	Standard	0.030	8	875	0.10	148	0.099	<20	3.28	0.02	0.06	<2	<0.05	<1	<5	23	81
STD OREAS45EA	Standard	0.030	8	898	0.10	150	0.103	<20	3.33	0.02	0.05	<2	<0.05	<1	<5	9	82
STD OREAS45EA	Standard	0.029	7	844	0.09	138	0.097	<20	3.11	0.01	0.05	<2	<0.05	<1	<5	22	78
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																
BLK	Blank																
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	<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

Client: **Aurora Geosciences Ltd. (Whitehorse)**
34A Laberge Road
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BUREAU VERITAS MINERAL LABORATORIES Canada

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PHONE (604) 253-3158

Project: EUK-17029-YT
Report Date: October 18, 2017

QUALITY CONTROL REPORT WHI17000891.1

		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
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																	
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BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	3	<2																	
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BLK	Blank	<2	<3	8																	
BLK	Blank	5	<3	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	

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

Project: EUK-17029-YT
Report Date: October 18, 2017

QUALITY CONTROL REPORT WHI17000891.1

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

Submitted By:	Carl Schulze
Receiving Lab:	Canada-Whitehorse
Received:	September 19, 2017
Report Date:	October 18, 2017
Page:	1 of 5

CERTIFICATE OF ANALYSIS WHI17000892.1

CLIENT JOB INFORMATION

Project:	EUK-17029-YT
Shipment ID:	
P.O. Number	EUK-17029-YT
Number of Samples:	118

SAMPLE DISPOSAL

STOR-PLP	Store After 90 days Invoice for Storage
STOR-RJT-SOIL	Store Soil Reject - RJSV Charges Apply

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

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

ADDITIONAL COMMENTS

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

CC: Nigel Bocking

BRITISH COLUMBIA CERTIFIED ASSAYER
Marcus Lau
MARCUS LAU
Production Manager

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

Project: EUK-17029-YT
Report Date: October 18, 2017

CERTIFICATE OF ANALYSIS WHI17000892.1

Method		FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1892415	Soil	<2	<3	<2	<1	5	4	34	<0.3	9	5	182	2.29	5	5	12	<0.5	<3	3	41	0.13
1892416	Soil	3	<3	<2	<1	7	6	35	<0.3	8	5	259	2.50	6	5	15	<0.5	<3	<3	51	0.15
1892417	Soil	3	<3	<2	<1	22	4	47	0.3	16	27	2531	2.95	4	4	18	<0.5	<3	<3	60	0.19
1892418	Soil	3	<3	<2	<1	15	5	47	<0.3	17	9	277	2.51	9	5	15	<0.5	<3	<3	43	0.14
1892419	Soil	2	<3	2	<1	22	5	50	<0.3	15	6	281	2.73	8	6	17	<0.5	<3	<3	42	0.17
1892420	Soil	2	<3	3	1	16	<3	41	<0.3	16	7	207	2.42	7	6	14	<0.5	<3	<3	40	0.15
1892433	Soil	6	<3	<2	<1	18	9	53	<0.3	21	7	184	3.21	11	11	18	<0.5	<3	<3	46	0.13
1892434	Soil	<2	<3	<2	<1	8	8	75	<0.3	9	7	398	2.61	4	15	30	<0.5	<3	<3	35	0.13
1892435	Soil	3	<3	<2	2	12	16	56	<0.3	18	11	578	2.83	8	10	17	<0.5	<3	6	48	0.19
1892436	Soil	<2	<3	<2	<1	14	5	38	<0.3	13	5	179	1.78	4	7	12	<0.5	<3	<3	29	0.13
1892437	Soil	5	4	<2	1	11	9	51	<0.3	15	7	261	2.37	6	9	17	<0.5	<3	<3	37	0.23
1892438	Soil	11	<3	12	2	38	9	72	<0.3	29	14	481	4.00	9	36	39	<0.5	<3	<3	50	0.52
1892439	Soil	3	<3	<2	1	21	8	47	<0.3	19	7	226	2.32	8	7	21	<0.5	<3	<3	40	0.29
1892440	Soil	4	<3	<2	1	21	6	52	<0.3	19	9	353	2.57	8	5	31	<0.5	<3	<3	45	0.42
1892441	Soil	4	<3	2	1	23	8	53	<0.3	21	9	365	2.65	9	4	32	<0.5	<3	4	47	0.45
1892442	Soil	4	<3	2	1	13	4	47	<0.3	13	7	297	2.31	7	8	24	<0.5	<3	<3	36	0.34
1892443	Soil	4	<3	<2	1	8	5	47	<0.3	10	7	394	2.30	6	8	17	<0.5	<3	3	37	0.25
1892444	Soil	2	<3	<2	1	18	6	68	<0.3	21	8	397	2.26	8	3	28	<0.5	<3	5	38	0.47
1892445	Soil	4	3	6	1	21	7	54	<0.3	19	8	343	1.98	8	<2	38	<0.5	<3	<3	35	0.80
1892446	Soil	6	<3	<2	1	23	11	67	<0.3	21	9	280	2.75	10	5	24	<0.5	<3	<3	48	0.30
1892447	Soil	6	<3	<2	1	24	8	67	<0.3	22	9	331	2.66	9	5	28	<0.5	<3	<3	47	0.37
1892448	Soil	2	<3	<2	<1	16	5	46	<0.3	13	6	239	2.31	6	6	13	<0.5	<3	<3	41	0.16
1892449	Soil	3	<3	<2	<1	19	10	47	<0.3	15	8	254	2.32	7	7	14	<0.5	<3	<3	42	0.18
1892450	Soil	<2	<3	<2	1	27	11	51	<0.3	15	8	345	2.73	7	8	18	<0.5	<3	3	51	0.22
1892467	Soil	3	<3	2	<1	15	6	51	<0.3	14	7	258	2.17	6	15	13	<0.5	<3	<3	35	0.19
1892468	Soil	3	<3	3	<1	27	9	52	<0.3	16	8	229	2.60	7	5	16	<0.5	<3	<3	52	0.23
1892469	Soil	4	<3	3	<1	40	9	58	<0.3	17	9	251	2.60	7	5	18	<0.5	<3	<3	53	0.24
1892470	Soil	4	<3	5	<1	34	5	56	<0.3	22	10	443	2.68	7	6	14	<0.5	<3	<3	50	0.27
1892471	Soil	3	<3	3	<1	32	7	54	<0.3	21	10	466	2.59	6	6	13	<0.5	<3	<3	48	0.27
1892476	Soil	4	<3	4	<1	31	11	66	<0.3	40	14	455	3.43	7	4	13	<0.5	<3	<3	64	0.18

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PHONE (604) 253-3158

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

Project: EUK-17029-YT
Report Date: October 18, 2017

CERTIFICATE OF ANALYSIS WHI17000892.1

	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
1892415	Soil	0.014	9	18	0.52	244	0.079	<20	1.46	<0.01	0.17	<2	<0.05	<1	<5	5	<5
1892416	Soil	0.019	11	14	0.61	394	0.126	<20	1.14	<0.01	0.44	<2	<0.05	<1	<5	6	<5
1892417	Soil	0.027	11	33	0.51	760	0.091	<20	1.51	<0.01	0.20	<2	<0.05	<1	<5	5	<5
1892418	Soil	0.023	15	22	0.62	459	0.082	<20	1.38	<0.01	0.15	<2	<0.05	<1	<5	<5	<5
1892419	Soil	0.023	17	21	0.85	412	0.127	<20	1.55	<0.01	0.37	<2	<0.05	<1	<5	<5	<5
1892420	Soil	0.020	24	23	0.70	373	0.101	<20	1.41	<0.01	0.19	<2	<0.05	<1	<5	<5	<5
1892433	Soil	0.030	20	28	0.41	461	0.035	<20	2.02	<0.01	0.09	<2	<0.05	<1	<5	<5	<5
1892434	Soil	0.027	37	35	0.82	397	0.081	<20	1.67	<0.01	0.31	<2	<0.05	<1	<5	<5	<5
1892435	Soil	0.051	49	31	0.46	488	0.067	<20	1.56	<0.01	0.18	<2	<0.05	<1	<5	<5	<5
1892436	Soil	0.029	22	16	0.29	175	0.049	<20	0.88	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1892437	Soil	0.045	27	24	0.46	354	0.082	<20	1.28	<0.01	0.19	<2	<0.05	<1	<5	<5	<5
1892438	Soil	0.070	180	31	0.54	920	0.070	<20	2.72	<0.01	0.22	<2	<0.05	<1	<5	<5	9
1892439	Soil	0.045	24	27	0.48	364	0.092	<20	1.38	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
1892440	Soil	0.056	21	27	0.51	426	0.081	<20	1.51	0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892441	Soil	0.054	21	27	0.52	465	0.082	<20	1.60	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892442	Soil	0.056	38	21	0.54	447	0.097	<20	1.51	<0.01	0.22	<2	<0.05	<1	<5	<5	<5
1892443	Soil	0.056	35	19	0.56	336	0.101	<20	1.42	<0.01	0.25	<2	<0.05	<1	<5	<5	<5
1892444	Soil	0.079	12	21	0.48	287	0.048	<20	1.03	0.02	0.06	<2	<0.05	<1	<5	<5	<5
1892445	Soil	0.071	10	19	0.45	246	0.045	<20	0.92	0.02	0.06	<2	<0.05	<1	<5	<5	<5
1892446	Soil	0.059	20	29	0.55	418	0.079	<20	1.55	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1892447	Soil	0.063	21	29	0.58	429	0.086	<20	1.47	0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892448	Soil	0.038	21	24	0.56	200	0.106	<20	1.44	<0.01	0.20	<2	<0.05	<1	<5	<5	<5
1892449	Soil	0.040	29	22	0.63	211	0.100	<20	1.41	<0.01	0.24	<2	<0.05	<1	<5	<5	<5
1892450	Soil	0.051	33	26	0.76	301	0.118	<20	1.59	<0.01	0.38	<2	<0.05	<1	<5	<5	<5
1892467	Soil	0.041	25	26	0.51	165	0.082	<20	1.32	<0.01	0.18	<2	<0.05	<1	<5	<5	<5
1892468	Soil	0.043	25	29	0.51	211	0.059	<20	1.51	0.01	0.06	<2	<0.05	<1	<5	<5	<5
1892469	Soil	0.058	35	27	0.56	208	0.067	<20	1.55	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
1892470	Soil	0.074	28	41	0.66	247	0.127	<20	1.48	<0.01	0.37	<2	<0.05	<1	<5	<5	<5
1892471	Soil	0.075	25	38	0.63	238	0.128	<20	1.42	<0.01	0.38	<2	<0.05	<1	<5	<5	<5
1892476	Soil	0.016	22	83	1.05	310	0.114	<20	2.20	<0.01	0.21	<2	<0.05	<1	<5	<5	8

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

Project: EUK-17029-YT
Report Date: October 18, 2017

CERTIFICATE OF ANALYSIS WHI17000892.1

	Method	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1892477	Soil	2	<3	3	1	26	5	84	<0.3	8	10	1238	3.91	<2	2	12	<0.5	<3	<3	28	0.28
1892478	Soil	<2	<3	<2	<1	23	<3	91	<0.3	21	15	695	3.60	4	<2	8	<0.5	<3	<3	45	0.15
1892479	Soil	<2	<3	2	<1	21	6	79	<0.3	15	10	661	4.17	7	2	11	<0.5	<3	<3	51	0.17
1892480	Soil	3	<3	3	1	20	12	67	<0.3	16	8	247	3.55	10	<2	12	<0.5	<3	<3	70	0.15
1892481	Soil	5	<3	4	1	34	10	70	<0.3	26	9	370	2.90	16	4	25	<0.5	4	6	50	0.31
1892482	Soil	4	<3	3	2	47	17	116	<0.3	30	10	369	3.36	395	6	26	<0.5	31	<3	39	0.18
1892483	Soil	20	<3	<2	1	51	19	140	<0.3	36	26	1309	6.92	15	15	27	<0.5	<3	8	120	0.97
1892484	Soil	5	<3	2	1	17	13	61	<0.3	26	12	530	3.31	13	6	20	<0.5	<3	<3	58	0.29
1892485	Soil	<2	<3	<2	1	11	18	100	<0.3	13	11	831	4.07	11	14	15	<0.5	3	4	58	0.38
1892486	Soil	2	<3	<2	<1	14	11	71	<0.3	20	9	475	3.49	10	14	15	<0.5	<3	<3	45	0.20
1892487	Soil	7	<3	4	<1	12	11	64	<0.3	14	9	422	3.15	10	12	15	<0.5	<3	<3	39	0.26
1892488	Soil	4	<3	6	1	17	16	52	<0.3	19	9	349	2.78	14	9	16	<0.5	<3	<3	46	0.19
1892489	Soil	4	<3	3	1	25	14	72	<0.3	23	14	731	3.33	12	7	19	<0.5	<3	<3	68	0.77
1892490	Soil	<2	<3	<2	<1	40	20	113	<0.3	44	21	984	5.50	9	26	13	<0.5	<3	3	45	0.43
1892491	Soil	<2	<3	<2	<1	39	23	110	<0.3	43	20	1099	5.39	13	24	12	<0.5	<3	<3	39	0.39
1892492	Soil	6	<3	2	<1	24	8	56	<0.3	27	10	465	2.63	11	7	27	<0.5	<3	<3	45	0.41
1892493	Soil	3	<3	4	<1	22	10	58	<0.3	27	10	340	2.79	11	7	24	<0.5	<3	<3	46	0.39
1892494	Soil	5	<3	2	<1	20	12	54	<0.3	21	9	401	2.58	9	7	23	<0.5	<3	<3	40	0.37
1892495	Soil	<2	<3	<2	<1	19	10	63	<0.3	21	11	424	2.97	16	10	18	<0.5	<3	6	36	0.31
1891988	Silt	<2	<3	3	<1	19	5	52	<0.3	8	3	122	1.58	2	<2	7	<0.5	<3	<3	32	0.12
1891989	Silt	<2	<3	<2	<1	20	<3	46	<0.3	8	4	146	1.50	3	<2	7	<0.5	<3	<3	32	0.14
1891990	Silt	17	3	23	<1	15	7	38	<0.3	7	3	130	1.57	6	3	10	<0.5	<3	<3	24	0.15
1891991	Silt	7	<3	<2	<1	16	7	45	<0.3	11	4	119	1.96	8	<2	11	<0.5	<3	5	32	0.14
1891992	Silt	3	<3	3	<1	68	5	88	<0.3	30	15	576	3.50	4	2	20	<0.5	<3	<3	85	0.39
1891993	Silt	8	<3	3	<1	29	4	50	<0.3	12	6	217	2.04	3	<2	10	<0.5	<3	<3	46	0.21
1891994	Silt	12	<3	<2	<1	24	3	41	<0.3	13	7	240	1.98	5	3	18	<0.5	<3	<3	45	0.37
1891995	Silt	2	<3	3	<1	28	5	55	<0.3	16	8	255	2.23	4	2	22	<0.5	<3	<3	48	0.42
1891996	Silt	6	<3	2	<1	25	6	60	<0.3	14	7	250	2.24	4	2	15	<0.5	<3	3	43	0.32
1891997	Silt	9	<3	<2	<1	8	4	30	<0.3	7	3	128	1.35	<2	4	10	<0.5	<3	<3	28	0.24
1891998	Silt	<2	<3	3	<1	15	7	31	<0.3	8	7	343	1.87	6	4	11	<0.5	<3	<3	29	0.25

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Project: EUK-17029-YT
Report Date: October 18, 2017

CERTIFICATE OF ANALYSIS WHI17000892.1

	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
1892477	Soil	0.033	19	6	0.82	238	0.087	<20	1.84	<0.01	0.44	<2	<0.05	<1	<5	<5	14
1892478	Soil	0.022	6	15	1.54	290	0.225	<20	2.87	<0.01	0.59	<2	<0.05	<1	<5	<5	<5
1892479	Soil	0.035	8	25	1.08	294	0.189	<20	2.72	<0.01	0.39	<2	<0.05	<1	<5	7	7
1892480	Soil	0.031	13	30	0.50	229	0.077	<20	2.08	<0.01	0.08	<2	<0.05	<1	<5	6	<5
1892481	Soil	0.056	18	30	0.49	546	0.054	<20	1.52	<0.01	0.05	<2	<0.05	<1	<5	<5	5
1892482	Soil	0.034	16	38	0.15	258	0.010	<20	0.57	<0.01	0.06	<2	<0.05	<1	<5	<5	8
1892483	Soil	0.241	29	124	2.63	626	0.186	<20	4.04	<0.01	1.08	<2	<0.05	<1	<5	18	15
1892484	Soil	0.047	18	52	0.74	314	0.068	<20	1.85	<0.01	0.08	<2	<0.05	<1	<5	6	<5
1892485	Soil	0.135	17	40	1.28	316	0.187	<20	2.15	<0.01	0.86	<2	<0.05	<1	<5	8	7
1892486	Soil	0.044	30	37	0.70	374	0.119	<20	1.87	<0.01	0.38	<2	<0.05	<1	<5	5	6
1892487	Soil	0.068	37	22	0.55	315	0.123	<20	1.52	<0.01	0.43	<2	<0.05	<1	<5	6	6
1892488	Soil	0.033	28	31	0.44	354	0.068	<20	1.51	<0.01	0.09	<2	<0.05	<1	<5	6	<5
1892489	Soil	0.032	27	32	0.58	385	0.045	<20	1.28	<0.01	0.11	<2	<0.05	<1	<5	<5	9
1892490	Soil	0.123	55	51	1.06	318	0.213	<20	1.92	<0.01	1.04	<2	<0.05	<1	<5	5	7
1892491	Soil	0.116	42	45	0.88	342	0.190	<20	1.75	<0.01	0.93	<2	<0.05	<1	<5	<5	7
1892492	Soil	0.058	26	35	0.46	470	0.062	<20	1.34	0.01	0.07	<2	<0.05	<1	<5	<5	5
1892493	Soil	0.051	25	39	0.52	443	0.069	<20	1.47	<0.01	0.10	<2	<0.05	<1	<5	<5	5
1892494	Soil	0.060	27	31	0.47	401	0.069	<20	1.35	<0.01	0.11	<2	<0.05	<1	<5	<5	<5
1892495	Soil	0.072	26	26	0.39	271	0.068	<20	1.06	<0.01	0.19	<2	<0.05	<1	<5	<5	<5
1891988	Silt	0.036	9	16	0.46	247	0.065	<20	0.86	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
1891989	Silt	0.042	8	15	0.49	256	0.061	<20	0.80	<0.01	0.16	<2	<0.05	<1	<5	<5	<5
1891990	Silt	0.054	16	13	0.37	251	0.063	<20	0.87	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
1891991	Silt	0.048	11	15	0.34	226	0.039	<20	1.01	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1891992	Silt	0.051	17	59	1.37	882	0.139	<20	2.03	0.01	0.41	<2	0.06	<1	<5	7	8
1891993	Silt	0.059	10	23	0.64	313	0.069	<20	1.04	0.01	0.18	<2	<0.05	<1	<5	<5	<5
1891994	Silt	0.059	11	18	0.61	319	0.077	<20	1.03	0.01	0.15	<2	<0.05	<1	<5	<5	<5
1891995	Silt	0.059	11	22	0.68	360	0.082	<20	1.20	0.01	0.16	<2	<0.05	<1	<5	<5	<5
1891996	Silt	0.059	11	22	0.64	350	0.077	<20	1.07	0.01	0.22	<2	<0.05	<1	<5	<5	<5
1891997	Silt	0.079	18	13	0.38	178	0.056	<20	0.77	<0.01	0.12	<2	<0.05	<1	<5	<5	<5
1891998	Silt	0.057	10	11	0.34	238	0.051	<20	0.61	<0.01	0.15	<2	<0.05	<1	<5	<5	<5

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Project: EUK-17029-YT
Report Date: October 18, 2017

CERTIFICATE OF ANALYSIS WHI17000892.1

	Method	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1891999	Silt	5	<3	<2	<1	12	5	37	<0.3	11	5	229	1.60	5	4	18	<0.5	<3	<3	28	0.35
1892201	Silt	<2	<3	<2	<1	10	4	28	<0.3	8	5	221	1.35	5	3	13	<0.5	<3	<3	22	0.27
1892202	Silt	9	<3	<2	<1	10	7	43	<0.3	13	6	205	1.76	7	5	25	<0.5	<3	<3	35	0.45
1892203	Silt	<2	<3	<2	1	15	5	39	<0.3	13	7	296	1.97	7	4	24	<0.5	<3	<3	35	0.35
1892204	Silt	5	<3	3	1	19	9	49	<0.3	14	6	233	2.09	5	12	30	<0.5	<3	<3	30	0.44
1892205	Silt	4	<3	<2	<1	16	4	48	<0.3	16	7	288	1.87	7	4	30	<0.5	<3	<3	32	0.54
1892206	Silt	2	<3	<2	<1	12	6	37	<0.3	12	5	259	1.64	7	3	22	<0.5	<3	<3	28	0.35
1892207	Silt	<2	<3	<2	<1	12	5	38	<0.3	12	6	273	1.68	8	4	22	<0.5	<3	<3	29	0.34
1892208	Silt	3	<3	<2	<1	15	6	47	<0.3	15	6	307	1.96	6	4	27	<0.5	<3	<3	33	0.40
1892209	Silt	4	<3	3	<1	16	6	54	<0.3	16	8	308	2.13	6	2	20	<0.5	<3	<3	40	0.36
1892210	Silt	2	<3	<2	<1	11	9	52	<0.3	19	6	196	2.07	6	<2	16	<0.5	<3	<3	38	0.30
1892211	Silt	4	<3	<2	<1	17	6	52	<0.3	15	8	378	2.21	4	2	20	<0.5	<3	<3	41	0.44
1892212	Silt	7	<3	<2	<1	16	5	50	<0.3	15	8	654	2.07	4	4	21	<0.5	<3	<3	39	0.49
1892213	Silt	50	<3	<2	<1	11	4	41	<0.3	13	6	343	1.70	3	4	17	<0.5	<3	<3	33	0.45
1892214	Silt	5	<3	3	<1	7	3	31	<0.3	11	5	189	1.23	<2	3	11	<0.5	<3	<3	24	0.38
1892215	Silt	3	<3	<2	<1	16	5	46	<0.3	13	9	350	2.46	5	4	18	<0.5	<3	<3	41	0.43
1892216	Silt	<2	<3	<2	<1	13	3	27	<0.3	9	4	143	1.38	4	3	11	<0.5	<3	<3	31	0.31
1892217	Silt	4	<3	2	<1	18	7	69	<0.3	26	10	530	2.37	4	2	19	<0.5	<3	<3	44	0.54
1892218	Silt	4	<3	4	<1	16	6	61	<0.3	20	10	504	2.31	5	3	16	<0.5	<3	<3	48	0.53
1892219	Silt	3	<3	3	<1	7	5	45	<0.3	18	6	236	1.58	2	3	11	<0.5	<3	<3	29	0.38
1892220	Silt	5	<3	4	<1	14	7	69	<0.3	34	10	485	2.34	3	3	20	<0.5	<3	<3	41	0.57
1892221	Silt	4	<3	5	<1	14	6	68	<0.3	35	10	487	2.31	4	3	20	<0.5	<3	<3	41	0.57
1892222	Silt	3	<3	2	<1	10	7	57	<0.3	25	9	542	2.22	4	4	15	<0.5	<3	<3	38	0.37
1892223	Silt	3	<3	<2	<1	8	7	50	<0.3	19	9	463	2.21	5	5	12	<0.5	<3	<3	35	0.33
1892224	Silt	4	<3	4	<1	15	12	74	<0.3	28	12	630	2.43	4	4	20	<0.5	<3	<3	39	0.58
1892225	Silt	3	<3	<2	<1	12	7	53	<0.3	16	6	205	1.86	6	4	20	<0.5	<3	<3	35	0.41
1892226	Silt	4	<3	<2	<1	8	6	43	<0.3	16	5	145	1.67	5	3	15	<0.5	<3	<3	32	0.33
1892421	Silt	7	<3	3	<1	6	9	42	<0.3	6	2	136	1.31	2	5	9	<0.5	<3	<3	17	0.13
1892422	Silt	5	<3	<2	<1	6	8	38	<0.3	5	2	119	1.16	2	5	8	<0.5	<3	<3	16	0.14
1892423	Silt	6	<3	5	<1	7	8	34	<0.3	5	2	84	0.96	2	2	8	<0.5	<3	<3	15	0.12

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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
1891999	Silt	0.054	14	14	0.39	241	0.059	<20	0.80	<0.01	0.11	<2	<0.05	<1	<5	<5	<5
1892201	Silt	0.059	11	11	0.31	185	0.043	<20	0.60	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892202	Silt	0.086	22	17	0.37	305	0.057	<20	0.84	0.01	0.07	<2	<0.05	<1	<5	<5	<5
1892203	Silt	0.062	17	17	0.39	306	0.066	<20	1.02	0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892204	Silt	0.038	46	19	0.42	439	0.072	<20	1.22	<0.01	0.19	<2	<0.05	<1	<5	<5	<5
1892205	Silt	0.068	13	17	0.45	242	0.051	<20	0.88	0.01	0.08	<2	<0.05	<1	<5	<5	<5
1892206	Silt	0.059	15	15	0.33	228	0.051	<20	0.79	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
1892207	Silt	0.054	15	14	0.35	228	0.052	<20	0.80	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
1892208	Silt	0.064	21	18	0.41	291	0.060	<20	0.99	0.01	0.09	<2	<0.05	<1	<5	<5	<5
1892209	Silt	0.069	12	24	0.54	284	0.063	<20	1.11	0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892210	Silt	0.060	11	32	0.50	318	0.072	<20	1.18	<0.01	0.11	<2	<0.05	<1	<5	<5	<5
1892211	Silt	0.079	11	27	0.61	325	0.072	<20	1.17	<0.01	0.15	<2	<0.05	<1	<5	<5	<5
1892212	Silt	0.077	12	25	0.59	337	0.073	<20	1.13	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
1892213	Silt	0.095	10	23	0.51	257	0.062	<20	0.94	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
1892214	Silt	0.096	7	24	0.40	182	0.053	<20	0.78	<0.01	0.10	3	<0.05	<1	<5	<5	<5
1892215	Silt	0.078	11	22	0.56	294	0.068	<20	1.09	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
1892216	Silt	0.066	8	17	0.36	166	0.051	<20	0.75	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1892217	Silt	0.070	13	53	0.86	495	0.102	<20	1.54	<0.01	0.26	<2	<0.05	<1	<5	<5	<5
1892218	Silt	0.076	11	54	0.87	475	0.100	<20	1.44	<0.01	0.29	<2	<0.05	<1	<5	<5	<5
1892219	Silt	0.074	7	40	0.58	254	0.075	<20	1.06	<0.01	0.17	4	<0.05	<1	<5	<5	<5
1892220	Silt	0.075	16	57	0.84	366	0.100	<20	1.48	<0.01	0.29	<2	<0.05	<1	<5	<5	<5
1892221	Silt	0.076	17	58	0.83	367	0.100	<20	1.53	<0.01	0.28	2	<0.05	<1	<5	<5	<5
1892222	Silt	0.083	15	56	0.77	413	0.108	<20	1.40	<0.01	0.21	<2	<0.05	<1	<5	<5	<5
1892223	Silt	0.096	11	42	0.61	319	0.094	<20	1.07	<0.01	0.21	<2	<0.05	<1	<5	<5	<5
1892224	Silt	0.067	24	49	0.74	453	0.091	<20	1.52	<0.01	0.20	<2	<0.05	<1	<5	<5	<5
1892225	Silt	0.071	12	22	0.46	317	0.054	<20	0.99	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1892226	Silt	0.077	10	29	0.43	252	0.058	<20	1.01	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
1892421	Silt	0.044	17	12	0.40	215	0.075	<20	0.81	<0.01	0.19	<2	<0.05	<1	<5	<5	<5
1892422	Silt	0.044	14	10	0.36	194	0.069	<20	0.73	<0.01	0.16	<2	<0.05	<1	<5	<5	<5
1892423	Silt	0.036	15	9	0.25	134	0.046	<20	0.60	<0.01	0.08	<2	<0.05	<1	<5	<5	<5

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Project: EUK-17029-YT
Report Date: October 18, 2017

CERTIFICATE OF ANALYSIS WHI17000892.1

Method		FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1892424	Silt	3	<3	<2	<1	41	5	69	<0.3	12	7	247	2.62	3	3	9	<0.5	<3	<3	52	0.16
1892425	Silt	3	<3	9	<1	51	5	89	<0.3	23	10	547	3.13	3	3	11	<0.5	<3	<3	61	0.18
1892426	Silt	5	<3	4	1	53	5	94	<0.3	25	10	547	3.29	3	4	12	<0.5	<3	<3	65	0.24
1892427	Silt	4	<3	3	<1	24	6	53	<0.3	15	8	287	2.21	5	5	20	<0.5	<3	<3	39	0.41
1892428	Silt	2	<3	2	<1	18	5	44	<0.3	12	6	295	1.92	5	4	18	<0.5	<3	<3	33	0.38
1892429	Silt	9	<3	<2	<1	13	5	41	<0.3	13	6	231	1.65	4	5	20	<0.5	<3	<3	28	0.39
1892430	Silt	5	<3	4	<1	10	4	37	<0.3	11	5	207	1.46	3	5	18	<0.5	<3	<3	26	0.35
1892431	Silt	8	<3	<2	<1	9	4	36	<0.3	11	5	201	1.41	4	5	17	<0.5	<3	<3	25	0.36
1892432	Soil	4	<3	<2	<1	9	6	43	<0.3	9	4	228	1.92	4	10	13	<0.5	<3	<3	22	0.10
1892000	Soil	3	<3	3	<1	16	6	47	<0.3	14	7	273	1.85	5	5	22	<0.5	<3	<3	32	0.43
1892268	Soil	4	<3	<2	<1	11	6	46	<0.3	14	6	281	1.70	3	3	17	<0.5	<3	<3	31	0.41
1892269	Soil	6	<3	3	<1	20	7	65	<0.3	20	9	563	2.35	5	3	25	<0.5	<3	<3	44	0.48
1892270	Soil	6	3	2	<1	17	7	56	<0.3	17	8	310	2.01	7	3	23	<0.5	<3	<3	36	0.43
1892271	Soil	3	<3	2	<1	16	8	69	<0.3	19	9	374	2.01	7	5	20	<0.5	<3	<3	34	0.42
1892272	Soil	6	<3	2	<1	16	9	59	<0.3	18	9	393	1.98	8	5	18	<0.5	<3	<3	34	0.40
1892273	Soil	5	<3	6	<1	18	8	66	<0.3	19	8	283	2.11	6	4	26	<0.5	<3	<3	37	0.53
1892274	Soil	5	<3	2	<1	19	8	65	<0.3	20	8	310	2.11	7	4	27	<0.5	<3	<3	37	0.57
1892275	Soil	6	<3	3	<1	20	11	90	<0.3	23	14	863	2.27	8	4	24	<0.5	<3	<3	35	0.53
1892276	Soil	4	<3	<2	<1	13	6	37	<0.3	18	7	248	1.58	4	3	11	<0.5	<3	<3	28	0.36
1892277	Soil	5	<3	4	1	18	13	89	<0.3	24	13	676	2.44	11	4	20	<0.5	<3	<3	37	0.47
1892278	Soil	6	<3	3	<1	21	8	70	<0.3	21	11	951	2.87	10	3	27	<0.5	<3	<3	46	0.51
1892279	Soil	5	4	3	<1	20	7	71	<0.3	21	9	595	2.35	7	3	29	<0.5	<3	<3	42	0.56
1892280	Soil	6	<3	6	<1	18	7	64	<0.3	19	9	549	2.25	6	3	27	<0.5	<3	<3	40	0.52
1892281	Soil	6	<3	<2	<1	17	7	60	<0.3	18	8	347	2.09	5	3	26	<0.5	<3	<3	38	0.51
1892282	Soil	4	<3	5	<1	15	6	56	<0.3	17	7	258	1.95	5	3	26	<0.5	<3	<3	35	0.51
1892283	Soil	10	<3	<2	<1	14	6	54	<0.3	17	7	244	2.07	5	4	28	<0.5	<3	<3	42	0.62
1892284	Soil	6	<3	<2	<1	19	7	62	<0.3	19	9	396	2.20	7	3	27	<0.5	<3	<3	39	0.55
1892285	Soil	11	<3	<2	<1	16	6	53	<0.3	16	7	371	2.05	8	2	24	<0.5	<3	<3	36	0.47

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Project: EUK-17029-YT
Report Date: October 18, 2017

CERTIFICATE OF ANALYSIS WHI17000892.1

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
1892424	Silt	0.052	11	22	0.63	358	0.078	<20	1.07	<0.01	0.27	<2	<0.05	<1	<5	<5	6
1892425	Silt	0.056	11	41	0.79	494	0.089	<20	1.20	<0.01	0.42	<2	<0.05	<1	<5	<5	8
1892426	Silt	0.053	11	44	0.90	520	0.102	<20	1.37	<0.01	0.45	<2	<0.05	<1	<5	<5	8
1892427	Silt	0.051	12	20	0.61	354	0.072	<20	1.04	<0.01	0.20	<2	<0.05	<1	<5	<5	<5
1892428	Silt	0.062	12	17	0.49	282	0.063	<20	0.90	<0.01	0.15	<2	<0.05	<1	<5	<5	<5
1892429	Silt	0.061	14	14	0.42	250	0.054	<20	0.79	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892430	Silt	0.065	14	13	0.37	233	0.049	<20	0.71	<0.01	0.09	<2	<0.05	<1	<5	<5	<5
1892431	Silt	0.069	13	14	0.35	224	0.048	<20	0.68	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
1892432	Soil	0.022	30	12	0.70	333	0.073	<20	1.34	<0.01	0.25	<2	<0.05	<1	<5	<5	<5
1892000	Soil	0.051	15	17	0.50	290	0.068	<20	0.98	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
1892268	Soil	0.084	10	23	0.48	228	0.061	<20	0.99	<0.01	0.09	<2	<0.05	<1	<5	<5	<5
1892269	Soil	0.065	14	31	0.67	379	0.077	<20	1.34	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
1892270	Soil	0.075	12	20	0.47	267	0.047	<20	0.96	0.01	0.06	<2	<0.05	<1	<5	<5	<5
1892271	Soil	0.064	17	26	0.48	307	0.060	<20	1.07	<0.01	0.11	<2	<0.05	<1	<5	<5	<5
1892272	Soil	0.078	16	26	0.43	291	0.058	<20	0.98	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892273	Soil	0.076	13	25	0.54	302	0.054	<20	1.09	0.01	0.07	6	<0.05	<1	<5	<5	<5
1892274	Soil	0.080	14	26	0.57	308	0.058	<20	1.01	0.01	0.09	<2	<0.05	<1	<5	<5	<5
1892275	Soil	0.081	28	33	0.55	338	0.063	<20	1.23	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
1892276	Soil	0.096	10	41	0.42	192	0.043	<20	0.75	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1892277	Soil	0.088	26	39	0.55	337	0.072	<20	1.18	<0.01	0.15	<2	<0.05	<1	<5	<5	<5
1892278	Soil	0.086	18	31	0.62	387	0.069	<20	1.33	0.01	0.12	<2	<0.05	<1	<5	<5	<5
1892279	Soil	0.075	15	26	0.64	325	0.063	<20	1.22	0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892280	Soil	0.074	15	25	0.58	323	0.063	<20	1.14	0.01	0.09	<2	<0.05	<1	<5	<5	<5
1892281	Soil	0.069	14	22	0.55	297	0.060	<20	1.12	0.01	0.08	<2	<0.05	<1	<5	<5	<5
1892282	Soil	0.078	13	20	0.53	254	0.055	<20	1.00	0.01	0.07	<2	<0.05	<1	<5	<5	<5
1892283	Soil	0.087	16	22	0.54	409	0.063	<20	0.93	0.02	0.07	<2	<0.05	<1	<5	<5	<5
1892284	Soil	0.072	14	23	0.58	298	0.060	<20	1.13	0.01	0.08	<2	<0.05	<1	<5	<5	<5
1892285	Soil	0.080	12	19	0.46	259	0.048	<20	0.94	0.01	0.06	<2	<0.05	<1	<5	<5	<5

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Project: EUK-17029-YT
Report Date: October 18, 2017

QUALITY CONTROL REPORT WHI17000892.1

	Method	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	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																					
1892437	Soil	5	4	<2	1	11	9	51	<0.3	15	7	261	2.37	6	9	17	<0.5	<3	<3	37	0.23
REP 1892437	QC				1	11	7	50	<0.3	15	7	257	2.35	7	8	16	<0.5	<3	<3	37	0.22
1892439	Soil	3	<3	<2	1	21	8	47	<0.3	19	7	226	2.32	8	7	21	<0.5	<3	<3	40	0.29
REP 1892439	QC	3	<3	<2																	
1892493	Soil	3	<3	4	<1	22	10	58	<0.3	27	10	340	2.79	11	7	24	<0.5	<3	<3	46	0.39
REP 1892493	QC				<1	22	12	58	<0.3	28	10	342	2.80	10	7	24	<0.5	<3	<3	46	0.39
1892494	Soil	5	<3	2	<1	20	12	54	<0.3	21	9	401	2.58	9	7	23	<0.5	<3	<3	40	0.37
REP 1892494	QC	3	<3	<2																	
1892222	Silt	3	<3	2	<1	10	7	57	<0.3	25	9	542	2.22	4	4	15	<0.5	<3	<3	38	0.37
REP 1892222	QC	4	<3	2	<1	10	7	58	<0.3	25	9	538	2.25	4	4	15	<0.5	<3	<3	38	0.36
1892279	Soil	5	4	3	<1	20	7	71	<0.3	21	9	595	2.35	7	3	29	<0.5	<3	<3	42	0.56
REP 1892279	QC				<1	19	7	68	<0.3	21	9	575	2.29	7	3	28	<0.5	<3	<3	42	0.54
1892285	Soil	11	<3	<2	<1	16	6	53	<0.3	16	7	371	2.05	8	2	24	<0.5	<3	<3	36	0.47
REP 1892285	QC	5	<3	3																	
Reference Materials																					
STD CDN-PGMS-19	Standard	240	109	490																	
STD CDN-PGMS-23	Standard	482	462	2147																	
STD CDN-PGMS-19	Standard	235	119	530																	
STD CDN-PGMS-23	Standard	488	478	2185																	
STD CDN-PGMS-19	Standard	234	116	508																	
STD CDN-PGMS-23	Standard	504	524	2186																	
STD CDN-PGMS-19	Standard	209	119	510																	
STD DS11	Standard				12	150	138	341	1.8	81	14	1053	3.24	47	7	67	2.1	9	10	49	1.06
STD DS11	Standard				13	152	140	344	1.8	82	14	1058	3.26	45	6	67	2.0	7	13	50	1.08
STD DS11	Standard				12	149	131	340	1.7	76	13	1043	3.01	43	8	63	2.1	5	11	47	1.01
STD DS11	Standard				13	150	137	339	1.9	76	13	1047	3.07	43	7	66	2.2	6	11	48	1.04
STD OREAS45EA	Standard				2	710	14	31	<0.3	403	55	423	24.82	14	7	4	<0.5	<3	<3	304	0.03
STD OREAS45EA	Standard				2	731	9	32	0.3	416	58	434	25.79	13	8	4	<0.5	<3	<3	320	0.03

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Project: EUK-17029-YT
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QUALITY CONTROL REPORT WHI17000892.1

	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
Pulp Duplicates																	
1892437	Soil	0.045	27	24	0.46	354	0.082	<20	1.28	<0.01	0.19	<2	<0.05	<1	<5	<5	<5
REP 1892437	QC	0.045	26	24	0.45	348	0.081	<20	1.25	<0.01	0.18	<2	<0.05	<1	<5	<5	<5
1892439	Soil	0.045	24	27	0.48	364	0.092	<20	1.38	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
REP 1892439	QC																
1892493	Soil	0.051	25	39	0.52	443	0.069	<20	1.47	<0.01	0.10	<2	<0.05	<1	<5	<5	5
REP 1892493	QC	0.050	25	39	0.52	445	0.070	<20	1.48	0.01	0.10	<2	<0.05	<1	<5	<5	5
1892494	Soil	0.060	27	31	0.47	401	0.069	<20	1.35	<0.01	0.11	<2	<0.05	<1	<5	<5	<5
REP 1892494	QC																
1892222	Silt	0.083	15	56	0.77	413	0.108	<20	1.40	<0.01	0.21	<2	<0.05	<1	<5	<5	<5
REP 1892222	QC	0.080	15	56	0.79	413	0.108	<20	1.40	<0.01	0.22	<2	<0.05	<1	<5	<5	<5
1892279	Soil	0.075	15	26	0.64	325	0.063	<20	1.22	0.01	0.10	<2	<0.05	<1	<5	<5	<5
REP 1892279	QC	0.072	14	26	0.62	320	0.064	<20	1.20	0.01	0.10	<2	<0.05	<1	<5	<5	<5
1892285	Soil	0.080	12	19	0.46	259	0.048	<20	0.94	0.01	0.06	<2	<0.05	<1	<5	<5	<5
REP 1892285	QC																
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 DS11	Standard	0.072	16	57	0.85	436	0.086	<20	1.13	0.07	0.40	<2	0.29	<1	<5	<5	<5
STD DS11	Standard	0.074	17	59	0.86	437	0.090	<20	1.15	0.07	0.41	3	0.29	<1	<5	<5	<5
STD DS11	Standard	0.069	15	56	0.84	425	0.084	<20	1.07	0.07	0.39	2	0.27	<1	<5	<5	<5
STD DS11	Standard	0.070	17	56	0.86	425	0.089	<20	1.12	0.07	0.40	3	0.28	<1	<5	<5	<5
STD OREAS45EA	Standard	0.031	7	892	0.10	147	0.100	<20	3.37	0.02	0.06	<2	<0.05	<1	<5	<5	86
STD OREAS45EA	Standard	0.033	8	925	0.10	151	0.103	<20	3.49	0.02	0.06	<2	<0.05	<1	<5	<5	88

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QUALITY CONTROL REPORT   WHI17000892.1

		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
STD OREAS45EA	Standard				1	668	14	29	<0.3	368	53	402	20.78	3	9	4	0.6	<3	<3	303	0.04
STD OREAS45EA	Standard				2	696	13	30	<0.3	384	54	417	21.95	4	7	4	<0.5	<3	<3	309	0.04
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	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	

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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

Project: EUK-17029-YT
Report Date: October 18, 2017

QUALITY CONTROL REPORT WHI17000892.1

		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 OREAS45EA	Standard	0.029	7	861	0.10	151	0.094	<20	3.05	0.02	0.05	<2	<0.05	<1	<5	24	78
STD OREAS45EA	Standard	0.030	8	885	0.10	150	0.101	<20	3.29	0.02	0.05	<2	<0.05	<1	<5	21	81
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																
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BUREAU VERITAS MINERAL LABORATORIES Canada

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

Submitted By:	Carl Schulze
Receiving Lab:	Canada-Whitehorse
Received:	September 19, 2017
Report Date:	October 17, 2017
Page:	1 of 3

CERTIFICATE OF ANALYSIS WHI17000890.1

CLIENT JOB INFORMATION

Project:	EUK-17029-YT
Shipment ID:	
P.O. Number	EUK-17029-YT
Number of Samples:	36

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.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP90-250	36	Crush (>90%), split and pulverize 250g rock to 200 mesh			WHI
FA350-Au	36	50g Fire assay fusion Au by ICP-ES	50	Completed	VAN
EN002	36	Environmental disposal charge-Fire assay lead waste			VAN
AQ300	36	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN
SHP01	36	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

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

CC: Nigel Bocking

BRITISH COLUMBIA CERTIFIED ASSAYER
Marcus Lau
MARCUS LAU
Production Manager

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

Project: EUK-17029-YT
Report Date: October 17, 2017

CERTIFICATE OF ANALYSIS WHI17000890.1

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
1909112	Rock	0.44	<2	<1	5	138	11	0.5	1	<1	24	0.32	<2	<2	2	<0.5	<3	6	<1	<0.01	0.002
1909113	Rock	0.54	<2	<1	2	<3	8	<0.3	<1	<1	57	0.42	<2	15	5	<0.5	<3	<3	2	0.02	0.006
1909114	Rock	0.33	<2	<1	8	<3	15	<0.3	3	7	372	0.91	<2	12	4	<0.5	<3	<3	9	0.09	0.025
1909115	Rock	0.43	<2	5	17	<3	9	<0.3	<1	<1	34	0.87	<2	12	5	<0.5	<3	<3	<1	0.02	0.010
1909116	Rock	0.39	<2	<1	28	<3	25	<0.3	2	3	211	1.36	<2	20	12	<0.5	<3	<3	7	0.03	0.015
1909117	Rock	0.73	<2	<1	<1	<3	<1	<0.3	<1	<1	25	0.25	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001
1909118	Rock	0.34	<2	<1	13	<3	14	<0.3	<1	<1	44	0.76	<2	<2	<1	<0.5	<3	<3	<1	<0.01	0.008
1909119	Rock	0.40	<2	<1	2	<3	<1	<0.3	<1	<1	31	0.39	<2	<2	<1	<0.5	<3	<3	<1	<0.01	0.002
1909120	Rock	0.61	<2	<1	89	<3	8	<0.3	1	2	90	0.71	<2	9	10	<0.5	<3	<3	13	0.21	0.018
1909121	Rock	0.41	2	<1	29	<3	12	<0.3	15	6	339	1.20	<2	<2	52	<0.5	<3	<3	42	0.95	0.131
1909122	Rock	0.37	<2	<1	11	<3	11	<0.3	1	2	198	0.67	<2	16	2	<0.5	<3	<3	3	0.04	0.011
1909123	Rock	0.54	<2	<1	52	9	57	<0.3	56	21	2138	2.86	2	8	3	<0.5	<3	4	51	0.06	0.052
1909124	Rock	0.53	4	<1	36	<3	68	<0.3	322	33	490	6.23	36	<2	3	<0.5	33	<3	32	<0.01	0.012
1909125	Rock	0.41	<2	1	7	<3	51	<0.3	11	12	1380	3.10	189	4	5	<0.5	8	<3	41	0.01	0.023
1909126	Rock	0.33	4	<1	16	<3	1	<0.3	10	6	48	0.55	<2	<2	<1	<0.5	<3	<3	3	0.03	0.014
1909127	Rock	0.54	<2	3	59	42	40	<0.3	8	7	472	2.33	37	<2	18	<0.5	9	<3	12	<0.01	0.027
1909128	Rock	0.72	<2	9	67	<3	137	0.4	31	8	506	11.14	82	<2	30	<0.5	36	<3	124	0.02	0.039
1909129	Rock	0.36	268	9	17	1204	15	>100	3	<1	35	1.38	70	<2	34	<0.5	44	<3	14	0.01	0.060
1909130	Rock	0.56	2	2	27	6	15	1.3	4	1	155	2.04	323	<2	12	<0.5	34	<3	16	<0.01	0.009
1909004	Rock	0.91	2	<1	73	<3	214	1.3	23	19	674	4.90	3	<2	7	<0.5	<3	<3	143	0.21	0.048
1909005	Rock	1.26	<2	7	19	48	90	<0.3	23	4	165	2.01	102	3	17	<0.5	17	<3	24	0.02	0.016
1909006	Rock	0.86	<2	<1	2	12	30	<0.3	3	1	135	2.38	15	8	49	<0.5	<3	<3	15	0.03	0.015
1909007	Rock	1.88	<2	11	26	54	97	<0.3	23	4	239	4.32	121	3	15	<0.5	26	<3	44	0.04	0.034
1909008	Rock	0.45	<2	4	95	8	9	<0.3	3	<1	37	2.64	493	<2	15	<0.5	114	<3	5	<0.01	0.015
1909010	Rock	0.68	<2	7	97	12	37	<0.3	6	6	81	3.46	79	<2	15	<0.5	30	<3	44	<0.01	0.036
1909011	Rock	1.10	20	16	20	30	15	7.1	3	<1	27	1.09	46	<2	36	<0.5	13	<3	36	0.02	0.094
1909159	Rock	0.69	<2	<1	10	<3	32	<0.3	<1	<1	250	1.42	<2	29	5	<0.5	<3	<3	3	0.03	0.012
1909160	Rock	0.51	<2	<1	12	<3	14	<0.3	1	2	199	0.98	<2	15	8	<0.5	<3	<3	7	0.13	0.019
1909161	Rock	0.42	<2	<1	25	<3	35	<0.3	16	12	302	2.03	2	4	27	<0.5	<3	<3	50	0.92	0.081
1909162	Rock	0.42	3	<1	35	<3	19	0.6	55	12	273	1.22	32	9	19	<0.5	4	<3	50	0.54	0.040

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

Project: EUK-17029-YT
Report Date: October 17, 2017

CERTIFICATE OF ANALYSIS WHI17000890.1

	Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	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	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
1909112	Rock	2	13	<0.01	107	0.001	<20	0.08	0.03	0.07	<2	<0.05	<1	<5	<5	<5
1909113	Rock	26	4	0.16	117	0.023	23	0.33	0.07	0.22	<2	<0.05	<1	<5	<5	<5
1909114	Rock	2	7	0.22	299	0.038	<20	0.68	0.03	0.34	<2	<0.05	<1	<5	<5	<5
1909115	Rock	16	5	0.06	252	0.011	21	0.28	0.05	0.22	<2	0.15	<1	<5	<5	<5
1909116	Rock	8	7	0.24	995	0.070	22	0.55	0.04	0.46	<2	<0.05	<1	<5	<5	<5
1909117	Rock	<1	16	<0.01	8	<0.001	<20	0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
1909118	Rock	<1	21	<0.01	37	<0.001	<20	0.04	<0.01	0.03	<2	<0.05	<1	<5	<5	<5
1909119	Rock	<1	19	<0.01	10	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
1909120	Rock	9	8	0.15	112	0.022	<20	0.45	0.05	0.17	<2	<0.05	<1	<5	<5	<5
1909121	Rock	1	11	0.38	42	0.073	<20	0.78	0.07	0.04	<2	<0.05	<1	<5	<5	<5
1909122	Rock	3	6	0.10	133	0.022	<20	0.39	0.04	0.25	<2	<0.05	<1	<5	<5	<5
1909123	Rock	35	35	0.04	509	0.006	<20	0.59	<0.01	0.10	<2	<0.05	<1	<5	<5	12
1909124	Rock	1	346	0.01	282	0.002	<20	0.14	<0.01	0.01	4	<0.05	3	<5	5	<5
1909125	Rock	12	19	0.02	627	0.002	<20	0.41	<0.01	0.08	<2	<0.05	<1	<5	<5	6
1909126	Rock	<1	23	0.04	25	0.002	<20	0.06	<0.01	0.01	<2	<0.05	<1	<5	<5	<5
1909127	Rock	3	15	<0.01	113	0.001	<20	0.14	<0.01	0.05	<2	<0.05	1	<5	<5	<5
1909128	Rock	6	44	0.01	3340	0.002	<20	0.43	<0.01	0.02	<2	0.07	1	<5	<5	37
1909129	Rock	3	21	<0.01	503	0.001	<20	0.07	<0.01	0.06	<2	0.14	<1	<5	<5	<5
1909130	Rock	4	16	<0.01	99	0.001	<20	0.12	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
1909004	Rock	3	50	2.34	773	0.156	<20	2.61	0.07	0.78	<2	0.61	<1	<5	6	17
1909005	Rock	4	17	<0.01	707	0.002	<20	0.26	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
1909006	Rock	15	11	0.01	217	0.003	<20	0.51	<0.01	0.04	<2	<0.05	<1	<5	<5	5
1909007	Rock	6	19	0.01	587	0.002	<20	0.26	<0.01	0.09	<2	<0.05	<1	<5	<5	7
1909008	Rock	2	8	<0.01	62	0.001	<20	0.18	<0.01	0.05	<2	<0.05	4	<5	<5	<5
1909010	Rock	3	23	<0.01	142	0.002	<20	0.31	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1909011	Rock	3	21	<0.01	808	0.001	<20	0.11	<0.01	0.04	<2	<0.05	<1	<5	<5	<5
1909159	Rock	16	5	0.22	234	0.055	<20	0.53	0.04	0.46	<2	<0.05	<1	<5	<5	<5
1909160	Rock	11	6	0.17	175	0.069	<20	0.51	0.05	0.30	<2	<0.05	<1	<5	<5	<5
1909161	Rock	6	98	1.26	820	0.155	<20	1.56	0.11	0.64	<2	<0.05	<1	<5	<5	<5
1909162	Rock	11	262	1.29	457	0.103	<20	1.09	0.05	0.64	<2	<0.05	<1	<5	<5	<5

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

Project: EUK-17029-YT
Report Date: October 17, 2017

CERTIFICATE OF ANALYSIS WHI17000890.1

	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
1909163	Rock	0.48	<2	<1	<1	10	6	<0.3	<1	<1	20	0.58	10	17	3	<0.5	<3	<3	<1	<0.01	0.012
1909164	Rock	0.43	<2	13	16	54	18	<0.3	4	<1	42	1.04	41	3	17	<0.5	18	<3	31	0.02	0.031
1909165	Rock	0.78	2	4	96	<3	222	<0.3	56	13	676	9.54	648	3	14	<0.5	58	<3	42	<0.01	0.109
1909166	Rock	0.83	<2	<1	3	6	49	<0.3	8	3	404	1.90	5	15	14	<0.5	<3	<3	30	<0.01	0.006
1909167	Rock	1.00	<2	<1	4	<3	<1	<0.3	2	<1	65	0.36	<2	<2	<1	<0.5	<3	<3	1	0.02	0.001
1909168	Rock	0.65	<2	<1	37	<3	<1	<0.3	11	63	32	2.03	2	<2	<1	<0.5	<3	<3	5	<0.01	0.011

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	Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	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	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
1909163	Rock	28	4	<0.01	40	0.001	<20	0.49	<0.01	0.12	<2	<0.05	<1	<5	<5	<5
1909164	Rock	9	13	0.01	875	0.001	<20	0.16	<0.01	0.09	<2	<0.05	<1	<5	<5	<5
1909165	Rock	7	24	<0.01	219	0.003	<20	0.43	<0.01	0.10	<2	<0.05	4	<5	<5	6
1909166	Rock	13	24	0.03	606	0.006	<20	0.58	<0.01	0.05	<2	<0.05	<1	<5	<5	5
1909167	Rock	<1	27	<0.01	7	<0.001	<20	0.02	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
1909168	Rock	<1	32	0.01	31	<0.001	<20	0.04	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5

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QUALITY CONTROL REPORT WHI17000890.1

	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
Pulp Duplicates																					
1909124	Rock	0.53	4	<1	36	<3	68	<0.3	322	33	490	6.23	36	<2	3	<0.5	33	<3	32	<0.01	0.012
REP 1909124	QC		3																		
1909128	Rock	0.72	<2	9	67	<3	137	0.4	31	8	506	11.14	82	<2	30	<0.5	36	<3	124	0.02	0.039
REP 1909128	QC			9	65	3	129	0.3	31	8	496	10.84	78	<2	30	<0.5	31	<3	119	0.02	0.038
1909130	Rock	0.56	2	2	27	6	15	1.3	4	1	155	2.04	323	<2	12	<0.5	34	<3	16	<0.01	0.009
REP 1909130	QC		<2																		
1909166	Rock	0.83	<2	<1	3	6	49	<0.3	8	3	404	1.90	5	15	14	<0.5	<3	<3	30	<0.01	0.006
REP 1909166	QC		<2																		
Core Reject Duplicates																					
1909011	Rock	1.10	20	16	20	30	15	7.1	3	<1	27	1.09	46	<2	36	<0.5	13	<3	36	0.02	0.094
DUP 1909011	QC		19	16	20	27	15	6.7	3	<1	28	1.09	47	<2	36	<0.5	12	<3	37	0.02	0.097
Reference Materials																					
STD DS11	Standard			14	144	128	339	1.6	79	13	1001	3.07	41	8	63	2.3	6	14	48	1.03	0.070
STD DS11	Standard			13	143	130	306	1.6	76	13	976	2.98	40	6	61	2.1	8	13	47	1.02	0.069
STD OREAS45EA	Standard			2	673	15	29	0.4	356	52	404	20.45	9	11	3	1.3	<3	5	287	0.03	0.030
STD OREAS45EA	Standard			2	667	12	29	0.4	349	52	403	21.28	10	10	3	0.7	<3	5	290	0.03	0.030
STD OXC145	Standard		204																		
STD OXC145	Standard		209																		
STD OXC145	Standard		208																		
STD OXH139	Standard		1274																		
STD OXH139 Expected			1312																		
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 OXC145 Expected			212																		
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

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Project: EUK-17029-YT
Report Date: October 17, 2017

QUALITY CONTROL REPORT WHI17000890.1

	Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	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	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
Pulp Duplicates																
1909124	Rock	1	346	0.01	282	0.002	<20	0.14	<0.01	0.01	4	<0.05	3	<5	5	<5
REP 1909124	QC															
1909128	Rock	6	44	0.01	3340	0.002	<20	0.43	<0.01	0.02	<2	0.07	1	<5	<5	37
REP 1909128	QC	6	43	<0.01	3260	0.002	<20	0.42	<0.01	0.02	<2	0.07	1	<5	<5	36
1909130	Rock	4	16	<0.01	99	0.001	<20	0.12	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
REP 1909130	QC															
1909166	Rock	13	24	0.03	606	0.006	<20	0.58	<0.01	0.05	<2	<0.05	<1	<5	<5	5
REP 1909166	QC															
Core Reject Duplicates																
1909011	Rock	3	21	<0.01	808	0.001	<20	0.11	<0.01	0.04	<2	<0.05	<1	<5	<5	<5
DUP 1909011	QC	3	21	<0.01	798	0.001	<20	0.11	<0.01	0.04	<2	<0.05	<1	<5	<5	<5
Reference Materials																
STD DS11	Standard	16	58	0.82	420	0.087	<20	1.10	0.07	0.39	2	0.28	<1	<5	<5	<5
STD DS11	Standard	16	57	0.79	404	0.084	<20	1.07	0.07	0.38	3	0.28	<1	<5	<5	<5
STD OREAS45EA	Standard	7	847	0.09	138	0.095	<20	3.08	0.02	0.05	<2	<0.05	<1	<5	7	80
STD OREAS45EA	Standard	8	854	0.09	138	0.097	<20	3.15	0.02	0.05	<2	<0.05	<1	<5	14	80
STD OXC145	Standard															
STD OXC145	Standard															
STD OXC145	Standard															
STD OXH139	Standard															
STD OXH139 Expected																
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 OXC145 Expected																
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

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		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
BLK	Blank		<2																		
BLK	Blank		<2																		
Prep Wash																					
ROCK-WHI	Prep Blank		<2	<1	3	<3	29	<0.3	<1	3	552	1.57	<2	<2	26	<0.5	<3	<3	17	0.69	0.037
ROCK-WHI	Prep Blank		<2	<1	3	<3	29	<0.3	<1	3	549	1.64	<2	<2	23	<0.5	<3	3	19	0.64	0.038

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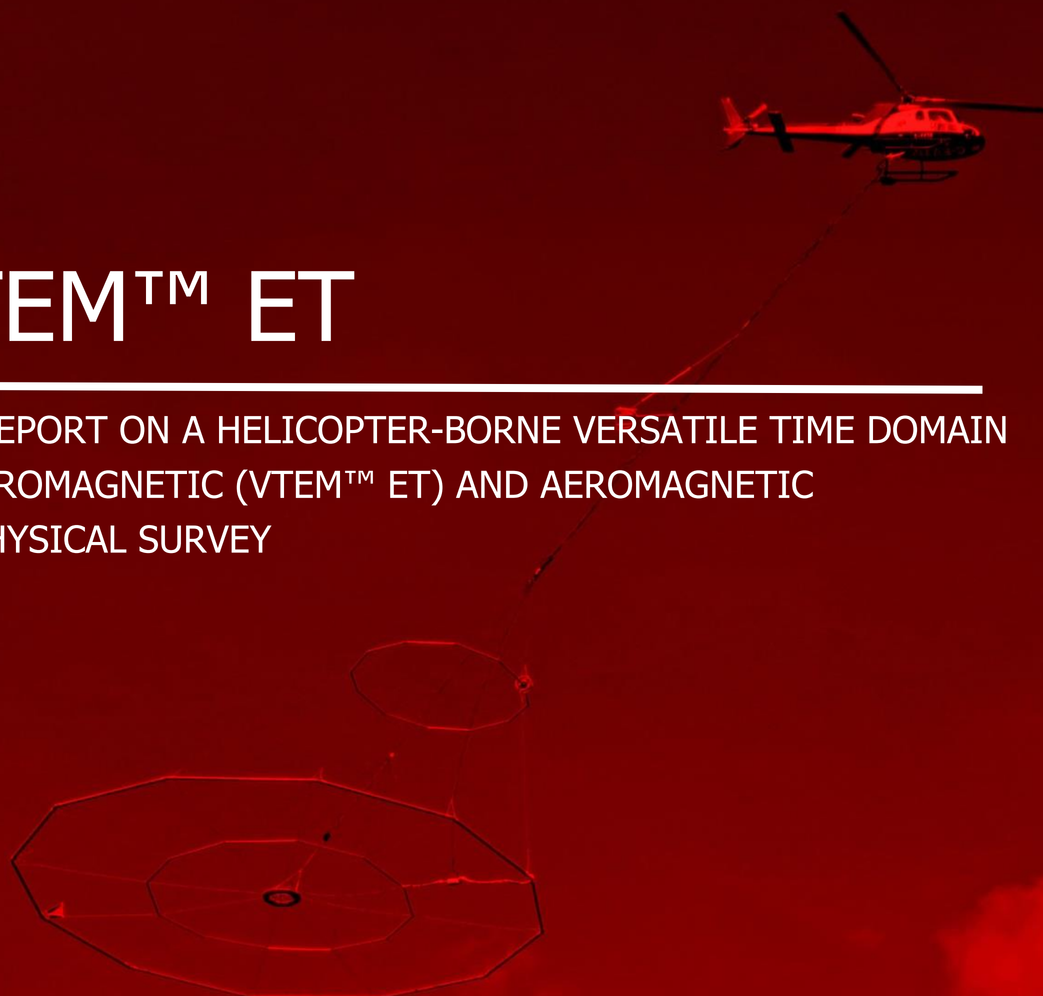
		AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
BLK	Blank															
BLK	Blank															
Prep Wash																
ROCK-WHI	Prep Blank	5	3	0.45	49	0.059	<20	1.01	0.07	0.10	<2	<0.05	<1	<5	<5	<5
ROCK-WHI	Prep Blank	5	4	0.47	46	0.059	25	0.95	0.06	0.09	<2	0.09	<1	<5	<5	<5

Appendix VI: 2017 Airborne Survey Report

VTEM™ ET

AIIP REPORT ON A HELICOPTER-BORNE VERSATILE TIME DOMAIN ELECTROMAGNETIC (VTEM™ ET) AND AEROMAGNETIC GEOPHYSICAL SURVEY



PROJECT: OPHIR, SHEBA, HAV, TAK, AND ETTA
LOCATION: COFFEE ROAD PROPERTY, YUKON
FOR: EUREKA RESOURCES INC.
SURVEY FLOWN: MAY 2017
PROJECT: GL170103

Geotech Ltd.
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Aurora, ON Canada L4G 4C4

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Email: info@geotech.ca

GEOTECH
AIRBORNE GEOPHYSICAL SURVEYS

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APPENDICES

EXECUTIVE SUMMARY

AIIP report on VTEM™ ET surveys, Coffee Road Property, Yukon

During May 6th – 17th 2017 Geotech Ltd. carried out a helicopter-borne geophysical survey over the A1-Ophir, A2-Sheba, A3-Hav, A4-Tak, and A5-Etta blocks situated within the Coffee Road Property, Yukon.

Principal geophysical sensors included a versatile time domain electromagnetic (VTEM™ ET) system, and a caesium magnetometer. Ancillary equipment included a GPS navigation system and a radar altimeter. A total of 1218 line-kilometers of geophysical data were acquired during the survey.

Geotech Ltd carried out airborne inductively induced polarization (AIIP) chargeability mapping of the VTEM data.

Final AIIP products are:

- AIIP databases;
- AIIP apparent chargeability and resistivity grids;
- AIIP report.

1. SURVEY LOCATION

The VTEM survey blocks were located south of Dawson City, Yukon, Figure 1.

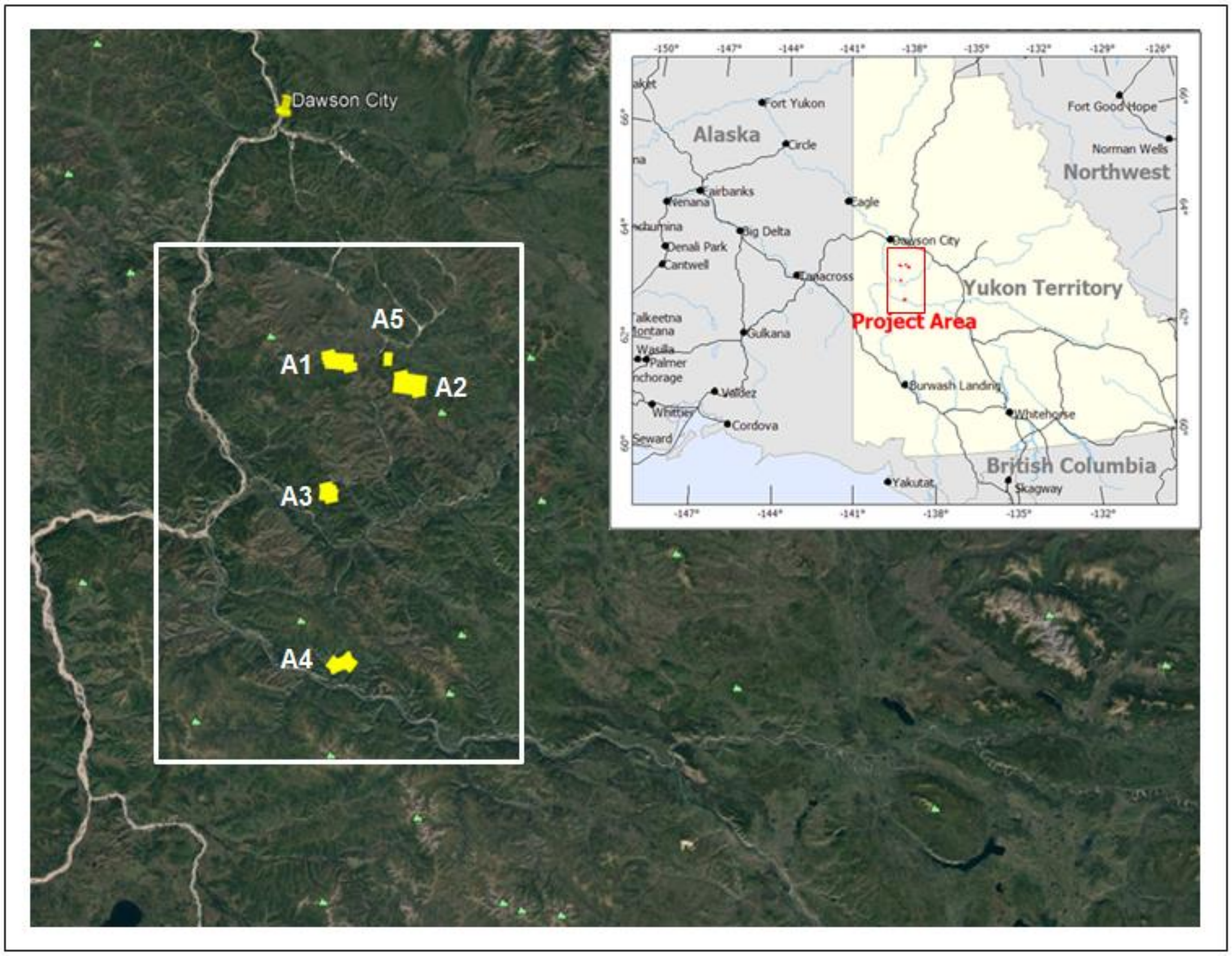

Figure 1: VTEM survey location (image from Google Earth).

The survey areas were flown in an east to west (N 70° E azimuth) direction over A1 (Ophir), A2 (Sheba), and A3 (Hav) blocks. The A4 (Tak) block was flown in a northeast to southwest (N 30° E azimuth), and the A5 (Etta) block was flown in a north to south (N 178° E azimuth). The nominal traverse line spacing is 100 metres.

Blocks A1, A5 and A2 are located approximately 60 kilometers SSE of Dawson City, Yukon. A4 is located approximately 126 kilometers south of Dawson City.

2. AIRBORNE INDUCTIVELY INDUCED POLARIZATION (AIIP)

The objective of AIIP mapping of VTEM data from is to derive Cole-Cole apparent chargeability and resistivity maps for a fixed frequency factor c.

2.1 AIIP EFFECTS IN VTEM DATA

Airborne VTEM™plus data from Coffee Road Property reflect mainly two physical phenomena in the earth:

1. Electromagnetic (EM) induction, related to sub-surface conductivity and governed by Faraday's Law of induction;

2. Induced polarization (IP) effect, related to the relaxation of polarized charges in the ground (Pelton et al., 1978, Weidelt, 1982, Kratzer and Macnae, 2012 and Kwan *et al*., 2015a and 2015b);

For mineral exploration, near-surface sources of AIIP are clays through membrane polarization (electrical energy stored at boundary layer) and most metallic sulphides, some oxides (i.e. magnetite) and graphite through electrode polarization (electrical charges accumulated through electrochemical diffusion at ionic-electronic conduction interfaces).

The absence of negative transients does not preclude the presence of AIIP (Kratzer and Macnae, 2012). The case is clearly illustrated in Figure 2, showing forward modeled VTEM decays over a chargeable half-space of different chargeabilities, using the Cole-Cole relaxation model (Appendix A). As chargeability value increases from m=0 (purely inductive), the rate of VTEM decay increases (pulling down) also in mid-times and eventually crosses into the negative when m≈0.8 V/V. But for vast majority of m values less than 0.8 V/V, there are no negatives in the VTEM decays.

The amount of deviation from the ideal inductive response of a half space with resistivity ρ_0 is a measure of the strength of AIIP.

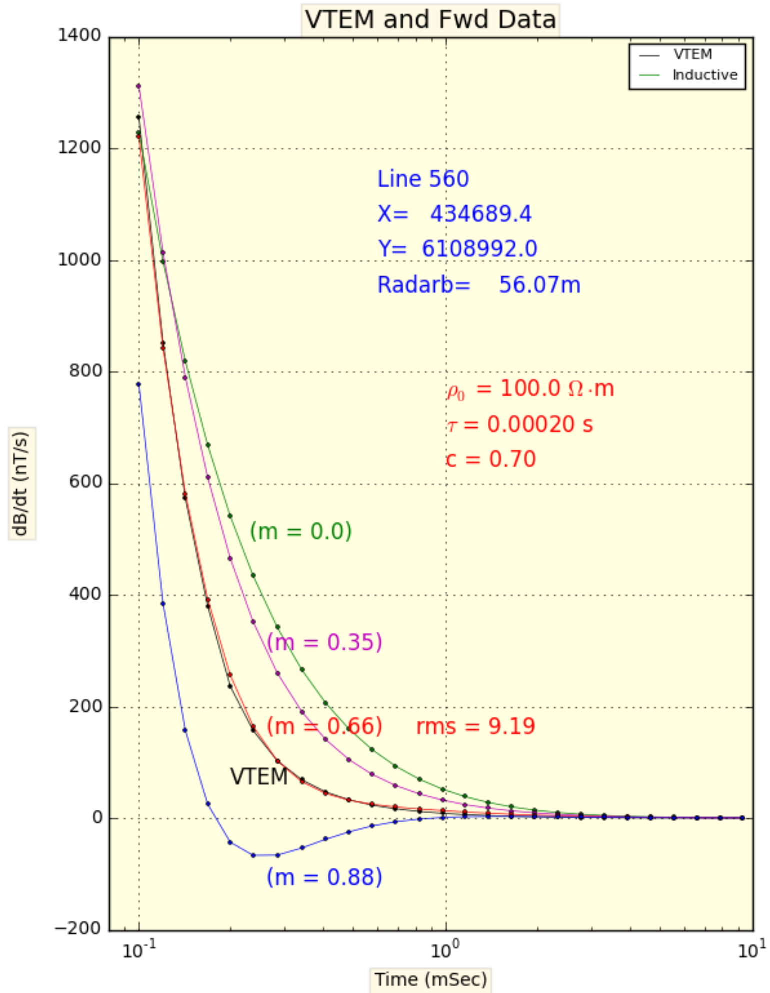

Figure 2: Forward modelled VTEM decays for different chargeability m values; the observed VTEM decay (black) was from Mount Milligan, British Columbia, fits well with the modeled decay (red) with m=0.66.

Numerous negative transients are observed in the VTEM data from A3 and A4. Some of them from L7120 of A4 (Tak) block are shown in Figure 3, providing unequivocal pieces of evidence that there are AIIP effects in the VTEM data.

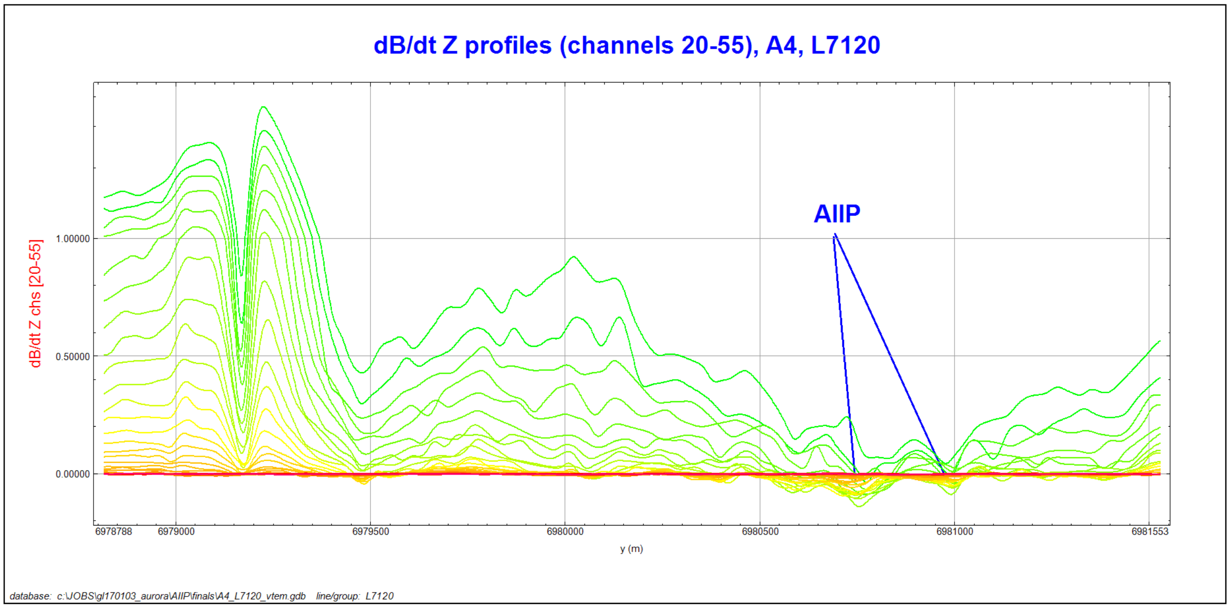

Figure 3: AIIP anomalies in L7120, A4 (Tak) block.

2.2 AIIP MAPPING

VTEM decays associated with AIIP can be studied using the empirical Cole-Cole complex resistivity model (Cole and Cole, 1941 and Pelton *et al.*, 1978), shown in equation (1).

$$\rho(\omega) = \rho_0 \left[1 - m\left(1 - \frac{1}{1 + (i\omega\tau)^c}\right)\right] \quad (1)$$

In the equation above, ρ_0 is the DC resistivity, m ($0 \leq m \leq 1.0$) is the chargeability in (V/V), τ is the Cole-Cole time constant in second, $\omega = 2\pi f$, and c ($0 \leq c \leq 1.0$) is the frequency factor. The four parameters (ρ_0, m, τ and c) are characteristic of a polarizable ground.

In general, chargeability m and Cole-Cole time constant τ depend on the quantity and size of polarizable elements in the ground (Pelton *et al.*, 1978). The frequency factor describes the size distribution of the polarizable elements (Luo and Zhang, 1998). When c=1, the time-domain decay modelled by Cole-Cole model represents the Debye decay, and when c=0.5, the time-domain decay is the Warburg decay (Wong, 1979).

The extraction of the four Cole-Cole parameters (ρ_0, m, τ and c) from airborne VTEM data is a difficult task. Kwan *et al*. 2015a developed an algorithm, based on Airbeo from CSIRO/AMIRA[1] (Chen & Raiche 1998; Raiche 1998), to extract the (ρ_0, m and τ) parameters while the frequency factor is fixed. There are two deficiencies in the algorithm; one, the precision of the derived (m_o, τ_o) depends on the final mesh size, and two, many of the inversions at the mesh locations far away from (m_o, τ_o) are not necessary.

[1] Commonwealth Scientific and Industrial Research Organization and Amira International;

An improved version of the AIIP mapping algorithm has since been developed by Geotech (Appendix A). The new method applies the Nelder-Mead Simplex minimization (Nelder and Mead, 1965) in the two-dimensional (m,τ) plane. At each required test point (m_i, τ_i), the optimal background resistivity ρ_0 is found by one-dimensional Golden-Section minimization for the user specified resistivity range. The algorithm uses only Airbeo's forward modeling kernel, which can generate synthetic VTEM data with high precision. The Nelder-Mead (NM) search algorithm is more efficient than the grid search method by Kwan *et al*. 2015a, and generates much more precise apparent chargeabilities, resistivities, and IP relaxation time constants. The improved NM AIIP mapping algorithm has been used to process the airborne time-domain electromagnetic data from numerous VTEM surveys since 2015.

AIIP processing is applied to VTEM data desampled to 10 m interval.

2.3 DETERMINATION OF FREQUENCY FACTOR C

The Geotech AIIP chargeability mapping algorithm described in Appendix A requires fixed frequency factor c, while the DC resistivity, chargeability m and IP relaxation time constant τ are allowed to vary. The determination of frequency factor c for selected VTEM data is carried out by interactive forward modelling software, also based on Airbeo from CSIRO/AMIRA. The locations of selected VTEM decays for c calculations, over EM induction time-constant TAU, are shown in Figure 4. Eighteen (18) frequency factor c values are determined from the selected VTEM decays. All c values equal to 0.7.

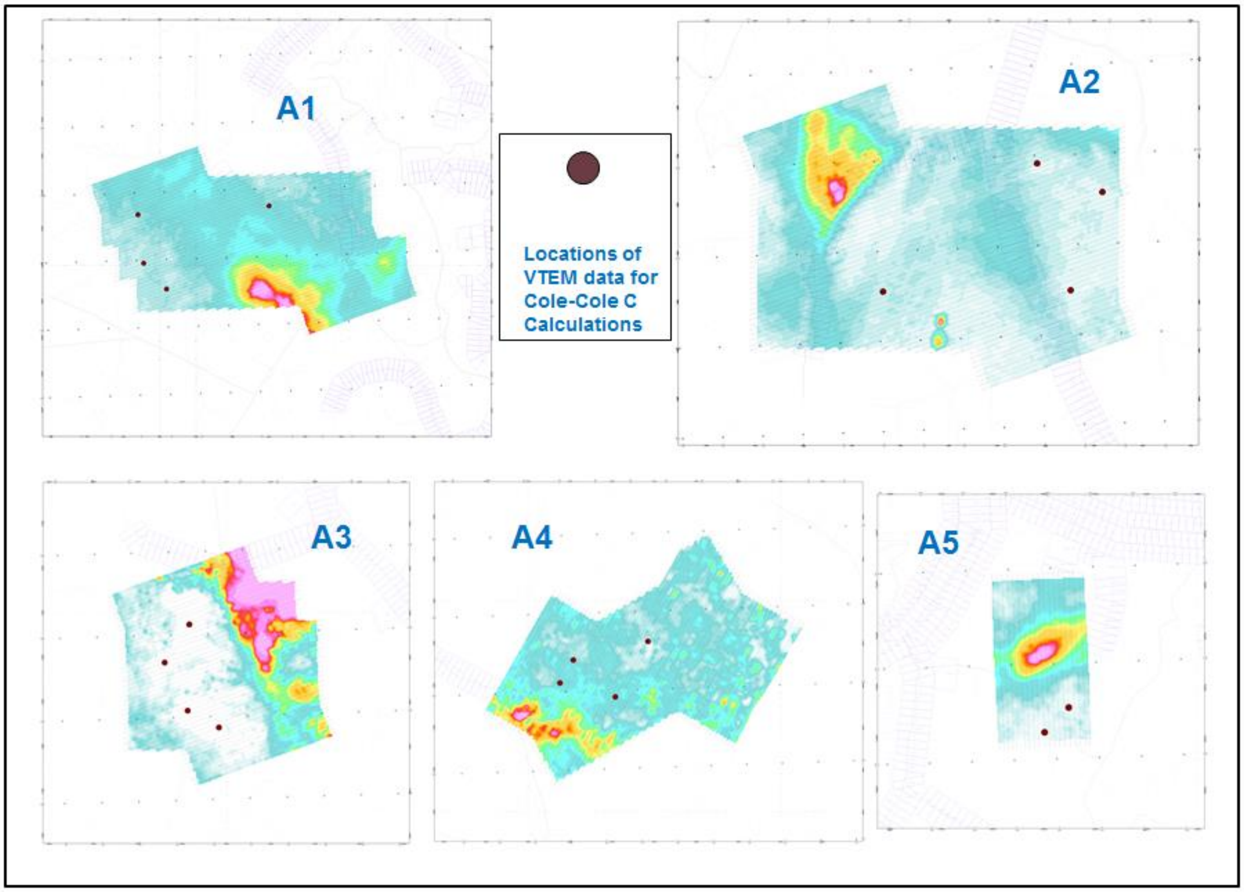

Figure 4: The locations of VTEM decays used for frequency factor c determination over time-constant TAU, areas A1 to A5.

Full Cole-Cole forward modelling results for four selected VTEM decays are shown in Figure 5.

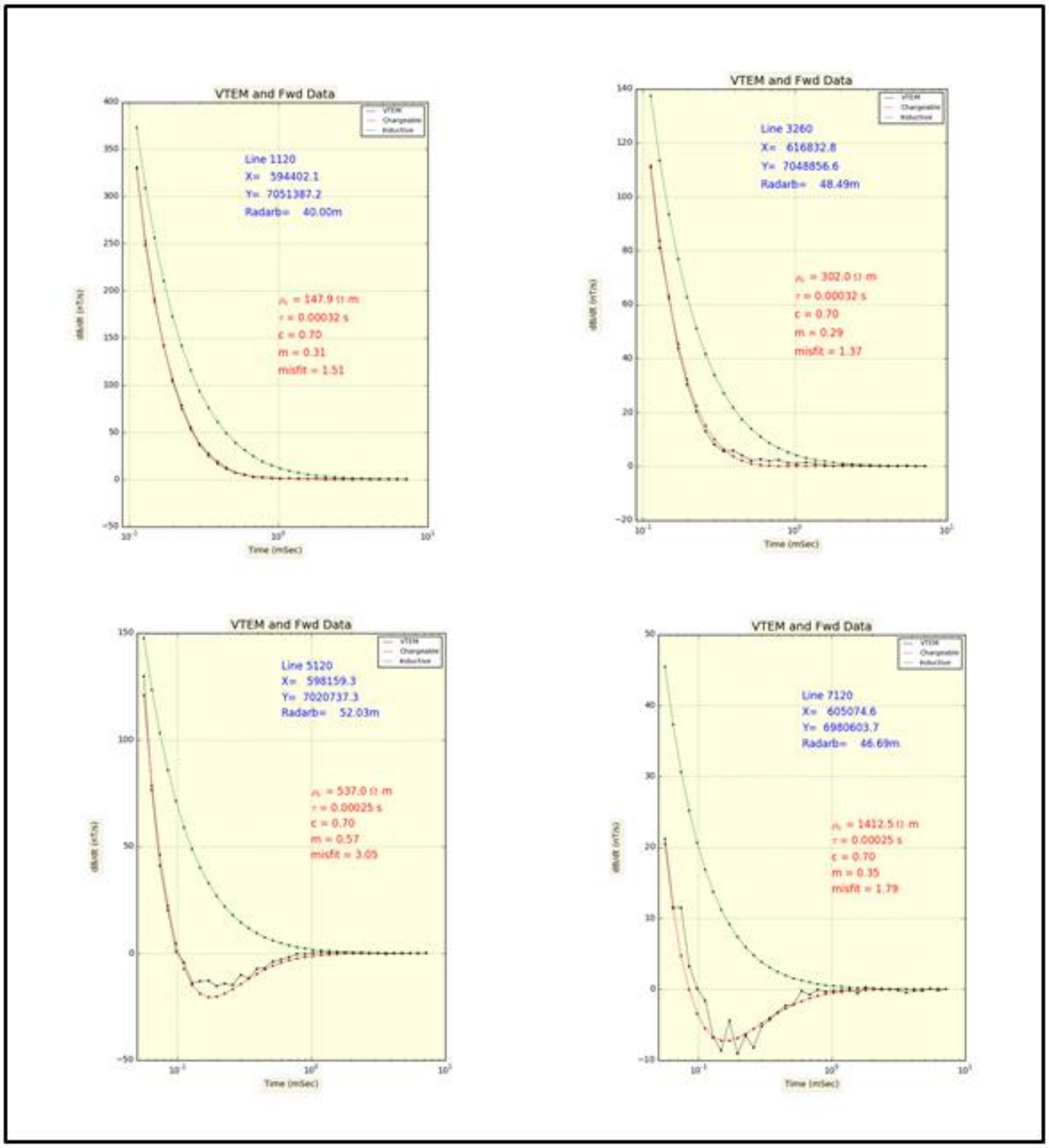

Figure 5: Cole-Cole parameters of four AIIP forward models and corresponding decays; purely inductive m=0 (green), observed data (black) and forward modeled data (red).

Typical Cole-Cole spectra for c=0.7 is shown in Figure 6. The width of the phase curve depends on c. For large c, the grain sizes of the polarizable material are distributed in a narrow range (or more uniformly distributed). The peak of the phase curve is related to the IP relaxation time-constant τ, or the average grain size of the polarizable materials.

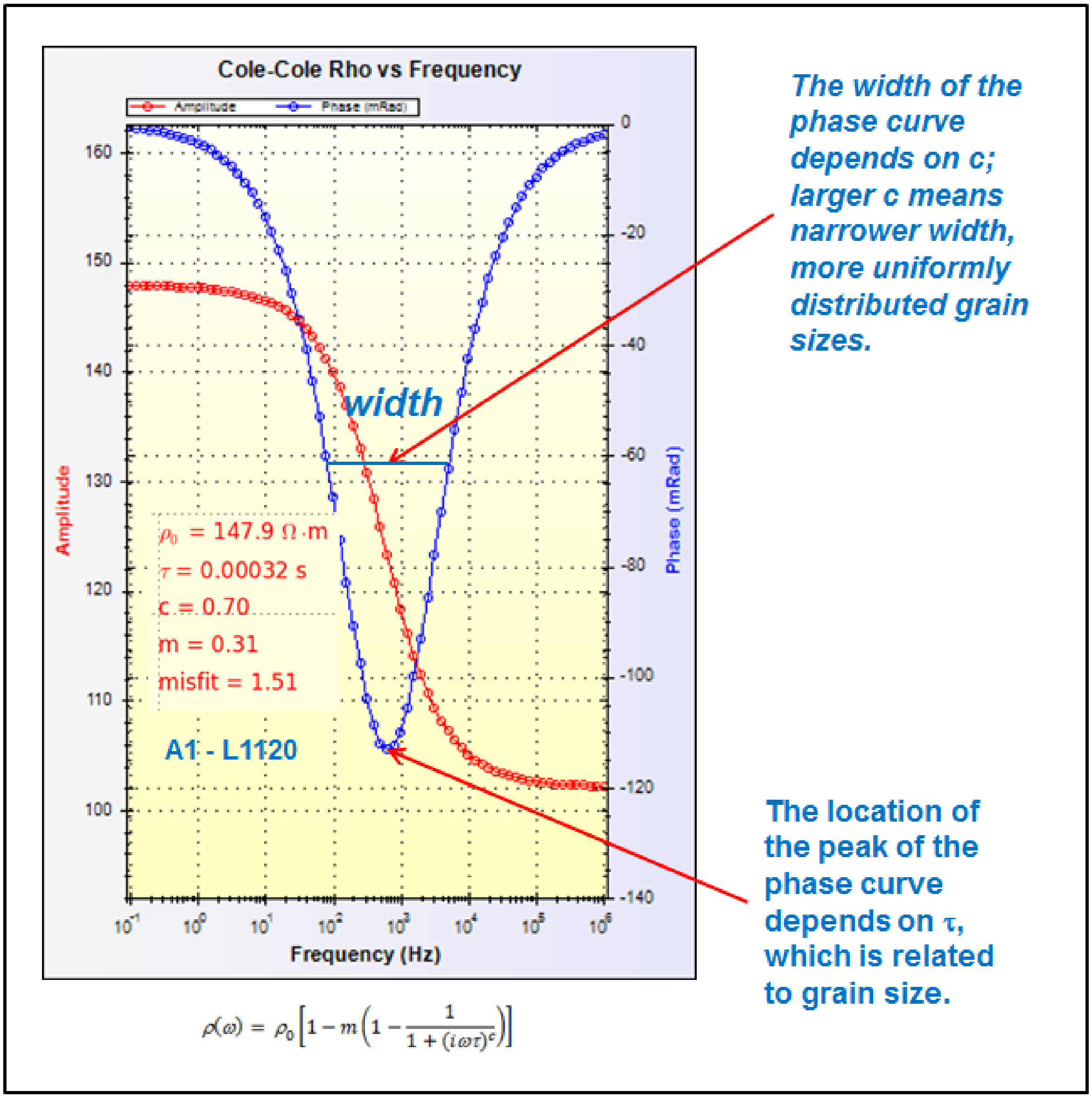

Figure 6: The relationship between the distribution of grain sizes and the frequency factor c is illustrated in the Cole-Cole spectra of c=0.7.

2.4 AIIP DEPTH OF INVESTIGATION

Using a buried chargeable prism in a uniform, non-polarizable ground, the depth of investigation of AIIP is studied. A 200 m by 200 m by 20 m prism of resistivity $\rho_1 = 10\ \Omega \cdot m$, $m = 0.5$ v/v, $\tau = 0.0002s$ *and* $c = 0.7$ is placed at various depths below ground in a resistive half space of resistivity $\rho_0 = 1{,}000\ \Omega \cdot m$, Figure 7. The size of the prism is within the footprint of the VTEM system, and the ground in the south of Coffee Road Property (A3 and A4) is quite resistive.

The software MarcoAir (CSIRO/AMIRA, Xiong and Tripp 1995) is used to generate the synthetic VTEM data in the AIIP depth of investigation. MarcoAir computes the airborne electromagnetic responses for prisms in layered earth. The Cole-Cole relaxation model is incorporated in MarcoAir.

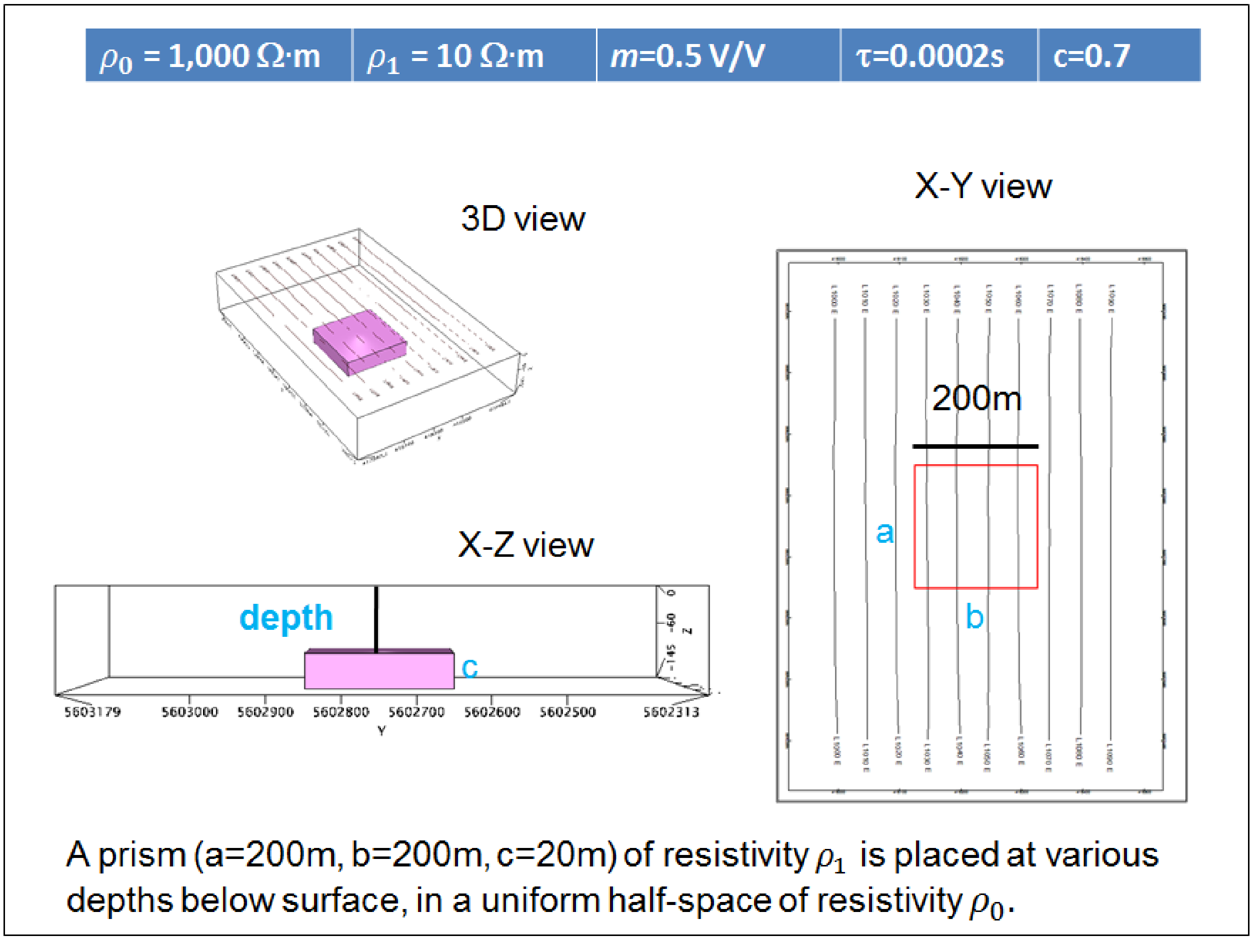

Figure 7: The setup of the 3D prismatic model for AIIP depth of investigation.

The AIIP apparent chargeability maps for the prisms buried at 50m, 75m and 100m depths are shown in Figure 8.

For the case of 50m deep prism, the maximum value of the recovered AIIP apparent chargeability is 0.58 V/V. The maximum recovered AIIP apparent chargeability for the 75m deep prism is 0.39 V/V. At 100m depth, maximum recovered AIIP apparent chargeability is 0.28 V/V, and the prism can still be detected and mapped by the VTEM system.

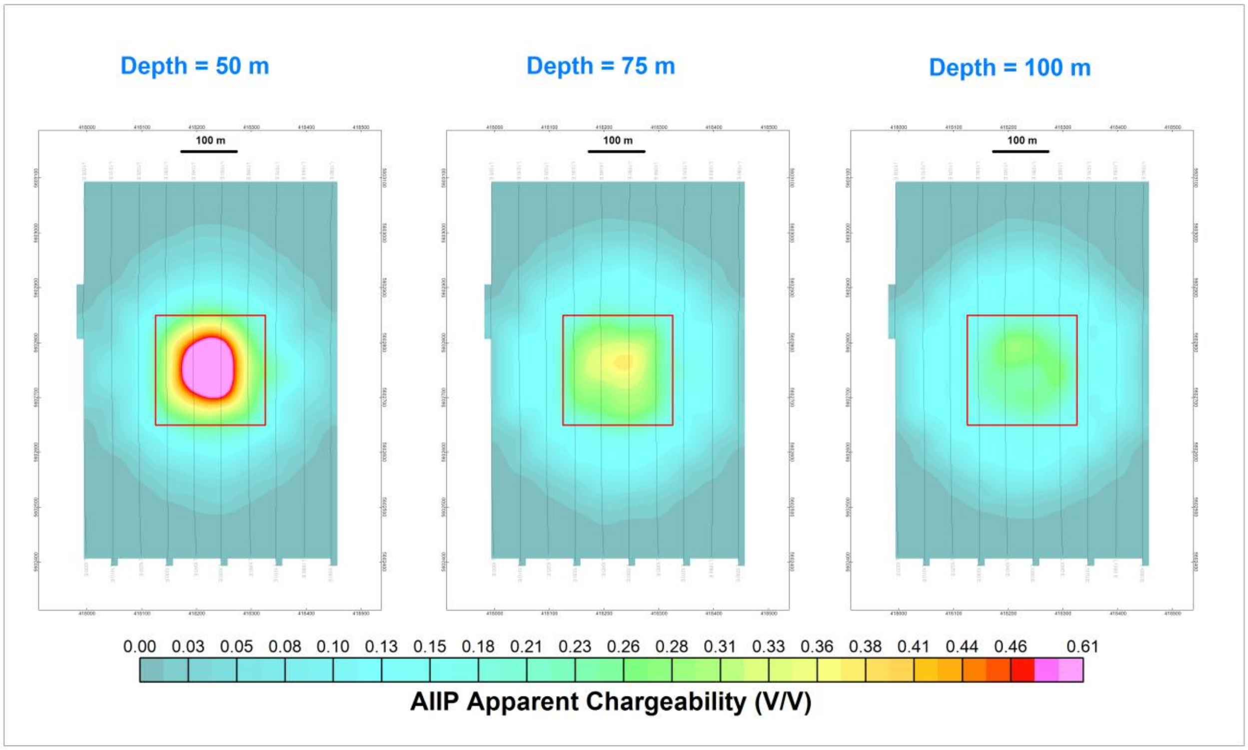

Figure 8: AIIP apparent chargeabilities for prisms located 50m, 75m and 100m below ground; the same color scheme is used.

The AIIP apparent resistivity maps for the prisms buried at 50m, 75m and 100m depths are shown in Figure 9.

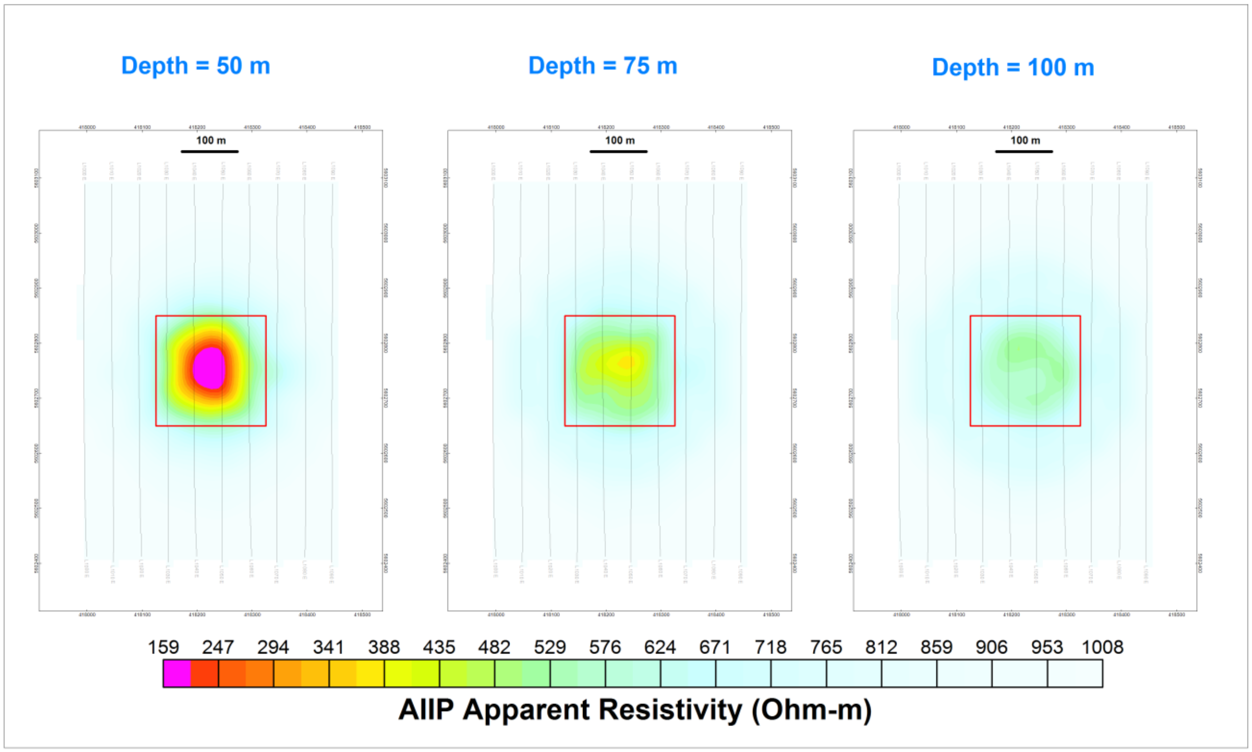

Figure 9: AIIP apparent resistivities for prisms located 50m, 75m and 100m below ground; the same color scheme is used.

At 100m depth in a resistive (1000 Ohm-m) host, a moderately chargeable prism may still be detectable by VTEM system, and the apparent chargeability (albeit weak) and resistivity recovered by AIIP mapping, as illustrated in Figure 10. Again, the expression of the AIIP effect in VTEM data is the distortion of the decay curve. Negative transient is not required to prove the existence of AIIP effect in VTEM data.

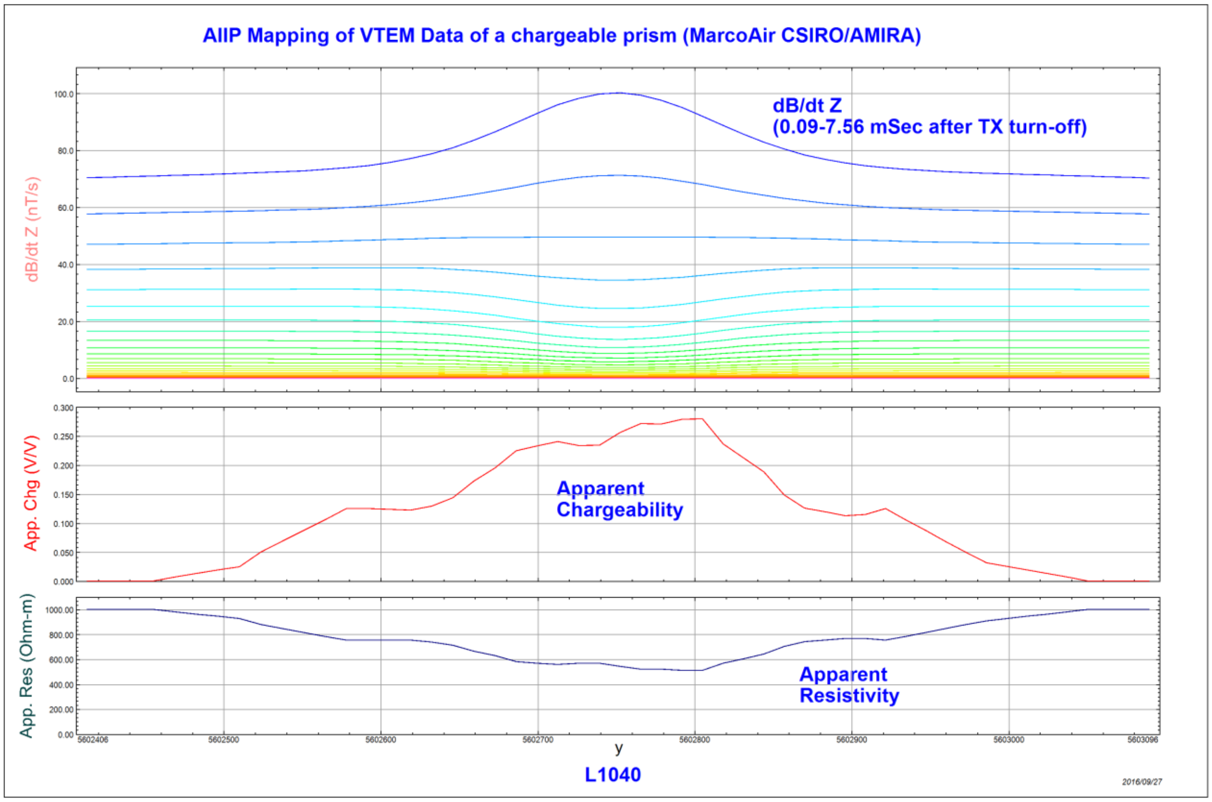

Figure 10: Forward modeled VTEM data of a chargeable prism at 100m depth, and recovered apparent chargeability and resistivity, synthetic line L1040 (just left of the prism centre).

3. AIIP CHARGEABILITY MAPPING RESULTS

3.1 GEOLOGY AND KNOWN GOLD MINERALIZATION

The discussions of the geology of the Coffee Road property are based mainly on the work by MacKenzie, Craw & Finnigan., 2014.

The basement of the Coffee Road property consists of the Paleozoic metamorphic rocks of the Yukon Tanana Terrane (YTT), Figure 11, Mackenzie, Craw & Finnigan, 2014. The basement rocks of VTEM areas A1, A3, A4 and western half of A5 are mainly undifferentiated schist and gneiss, and the basement of areas A2 and eastern half of A5 comprises mainly of Late Permian granitoid.

The basement rocks were deformed, folded and stacked during the Jurassic along regional-scale thrust faults. Greenschist facies shear zones and alteration developed during this time. Later stages of more brittle folding and fracturing subsequently developed and were locally infilled by orogenic quartz veins formed from fluids generated at depth within the thickened metamorphic pile. Hydrothermal alteration and disseminated gold mineralization in the White Gold District located just west of the Coffee Road property are structurally controlled by extensional fractures and EW striking Jurassic faults and shear zones, Mackenzie, Craw & Finnigan, 2014.

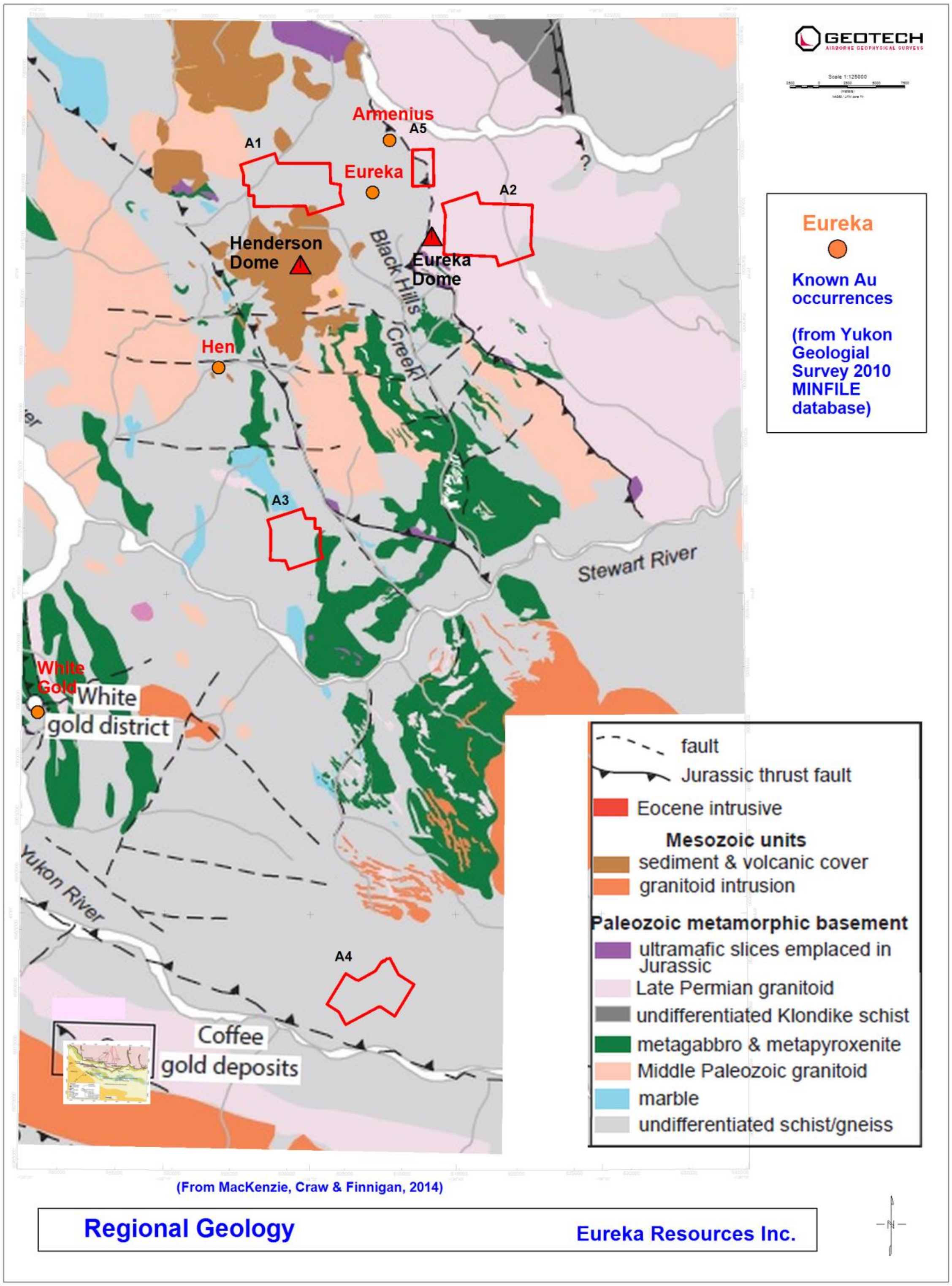

Figure 11: Regional geology of the Coffee Road Property, from MacKenzie, Craw & Finnigan, 2014, three known gold occurrences, i.e., Armenius, Eureka & Hen (from Yukon Geological Survey 2010 and appeared in Chapman et al., 2011) and the Coffee gold deposits (from Bultenhuis, Boyce & Finnigan, 2015) located west and southwest of A4.

Chapman, Mortensen & LeBarge, 2011 concluded that the placer gold deposits of the Indian River and Black Hills Creek (A1, A2 & A5) had formed mainly as a consequence of erosion of orogenic gold mineralization.

Bailey, 2013 proposed a Jurassic orogenic gold mineralization model for the Golden Saddle gold deposit, west and southwest of A3, in the White Gold District.

The Coffee deposits, west and southwest of A4, represent the shallower epizonal extensions of the mesozonal orogenic mineralization at the Boulevard deposit, a Cretaceous orogenic gold deposit, to the south (Buitenhuis, Boyce & Finnigan, 2015).

3.2 MAGNETIC DATA

Potential orogenic gold mineralization in the Coffee Road property is likely to be controlled by local scale geological structures such as fractures or faults, which can be mapped by the magnetic data.

The interpreted structures, i.e., faults, and possible thrusts and intrusions over the Calculated Vertical Gradient (CVG) data of the VTEM areas are shown in Figure 12.

The inferred faults may act as conduits or pathways for possible metamorphic or hydrothermal fluids, leading to possible hydrothermal alteration or even gold mineralization in host rocks.

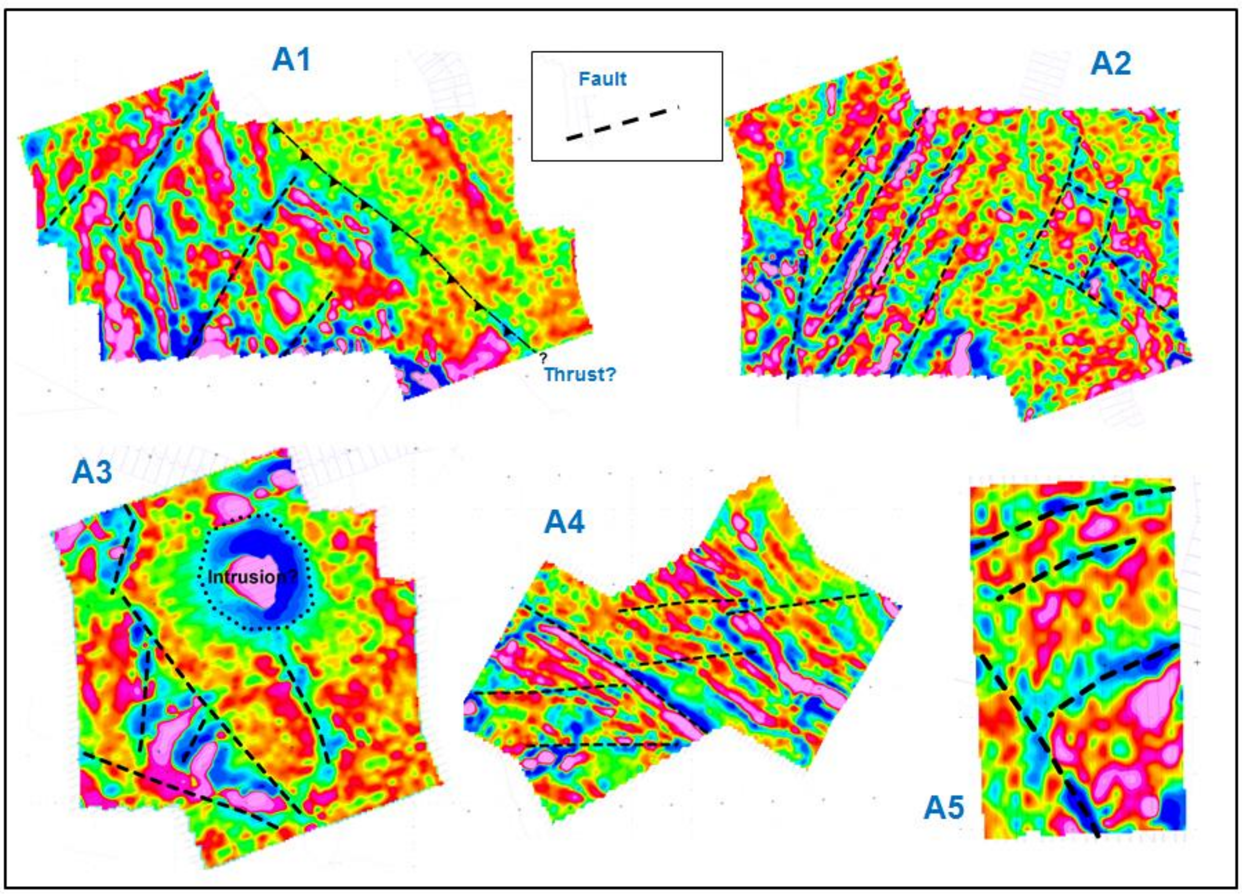

Figure 12: Inferred faults and possible thrust (A1) and intrusion (A3) over the CVG data of VTEM areas.

3.3 AIIP MAPS AND POTENTIAL GOLD PROSPECTS

The AIIP apparent chargeability and resistivity maps derived using frequency factor c of 0.7 of A1 block are shown in Figure 13. The strong conductive and chargeable zones don't appear to be coinciding with the drainages, implying that the conductive and chargeable materials are located within the hard rocks. The AIIP anomalies could be related to the fault zones, which acted as conduits for hydrothermal or metamorphic fluids possibly carrying sulphide minerals and even gold. The AIIP conductive and chargeable zones are selected as potential orogenic gold exploration prospects.

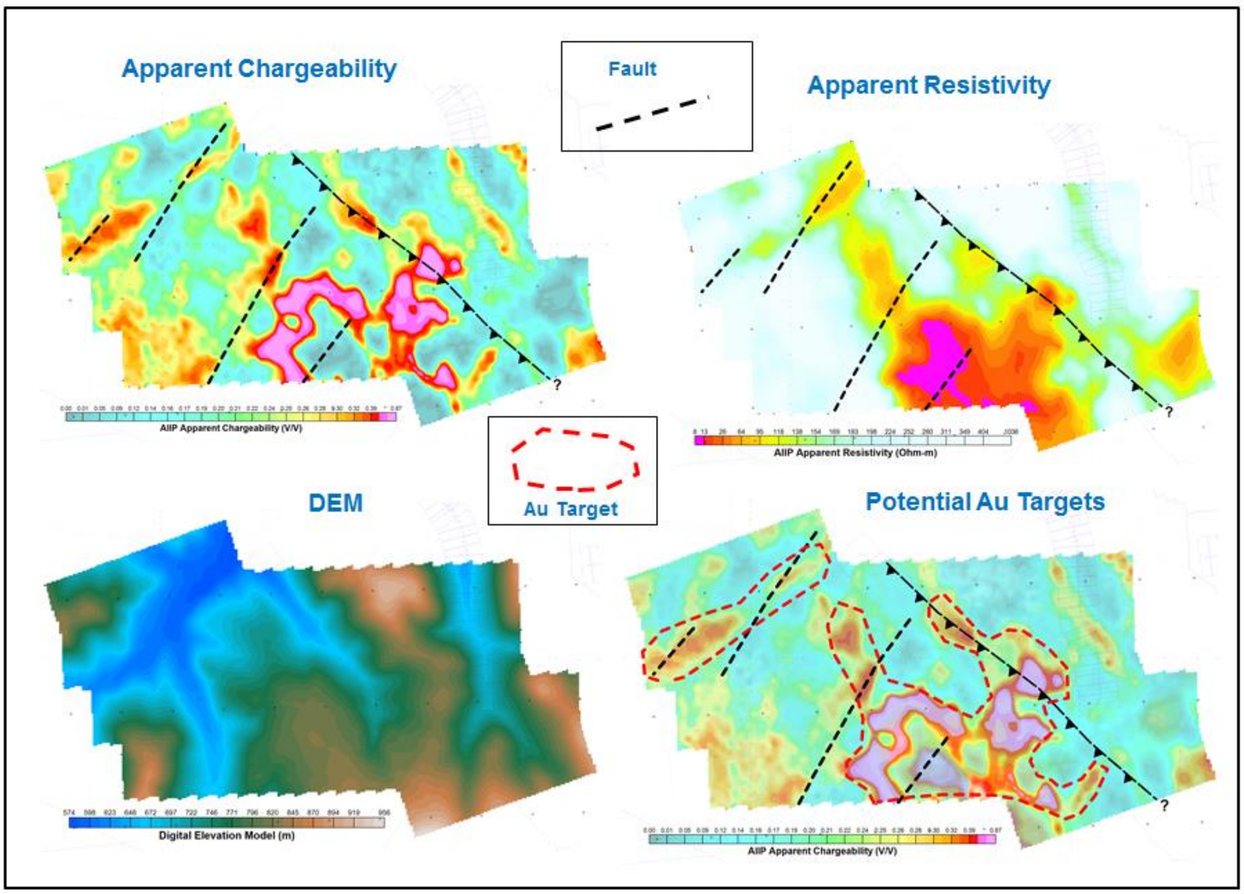

Figure 13: AIIP apparent chargeability, resistivity maps, DEM and potential gold targets, A1 block.

The AIIP apparent chargeability and resistivity maps of A2 block are shown in Figure 14. It appears that the conductive zones follow more or less the drainages. However, the chargeable anomalies in the west of the block don't appear to be related to drainages. These chargeable anomalies could be related to the NE-SW trending inferred faults in the same area. A potential orogenic gold exploration prospect for A2 is identified and shown over the AIIP apparent chargeability.

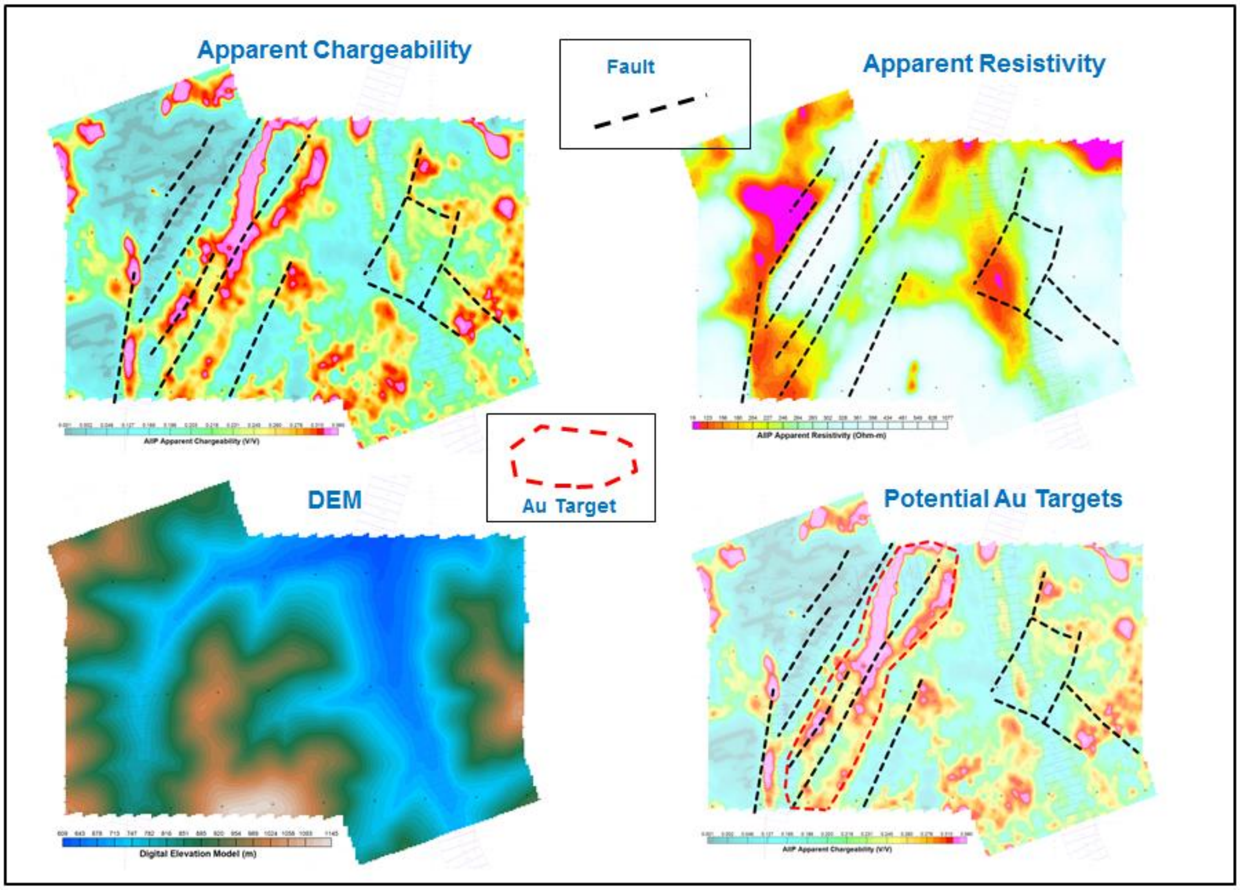

Figure 14: AIIP apparent chargeability, resistivity maps, DEM and potential gold targets, A2 block.

The AIIP apparent chargeability and resistivity maps of A3 block are shown in Figure 15. It appears that the AIIP anomalies do not follow the drainages. The chargeable anomalies are located within resistive terrains, implying that they could be possibly related to sulphide mineralization in quartz veins. A potential gold exploration prospect in the western half of A3 block is outlined and displayed over the AIIP apparent chargeability.

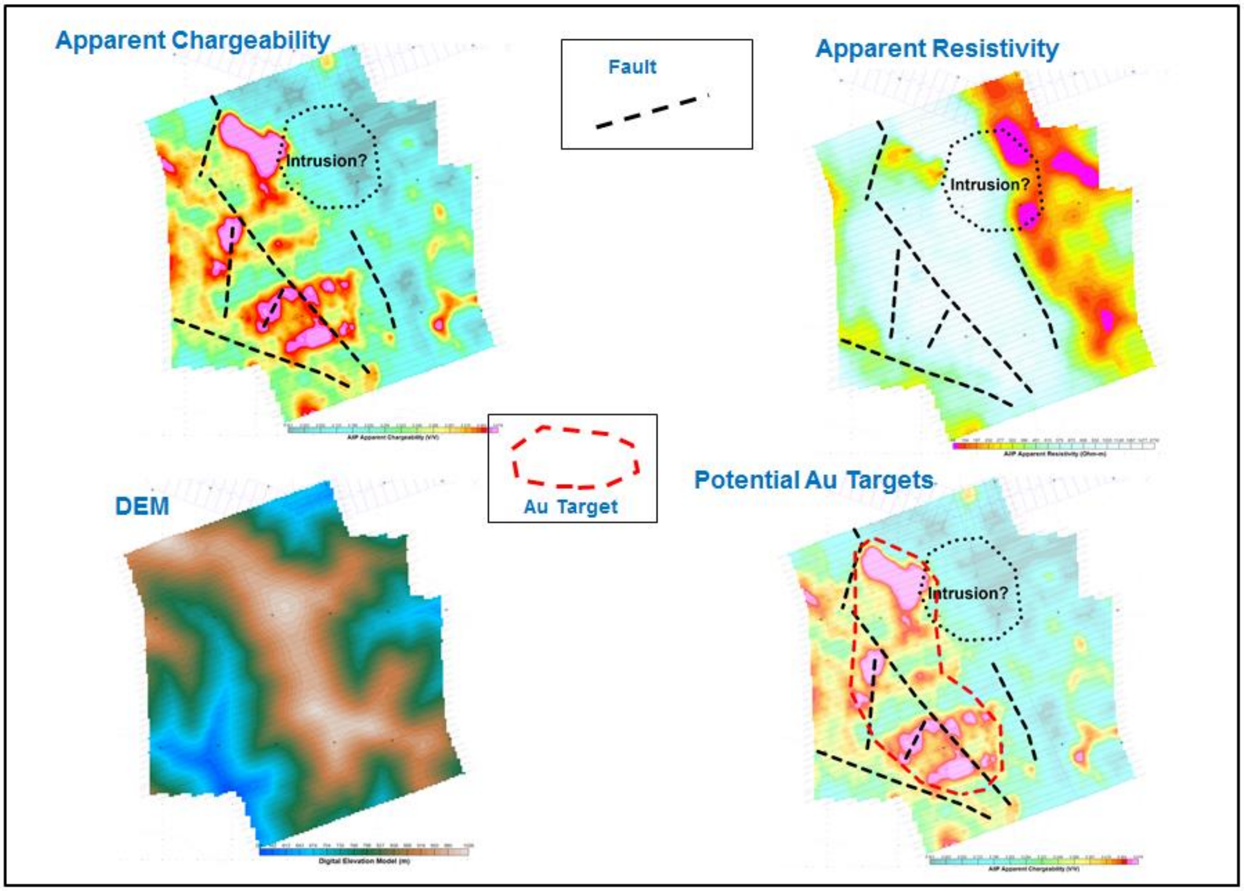

Figure 15: AIIP apparent chargeability, resistivity maps, DEM and potential gold targets, A3 block.

The AIIP apparent chargeability and resistivity maps of A4 block are shown in Figure 16. It appears that the AIIP apparent chargeability anomalies do not follow the drainages, but the AIIP apparent resistivity anomalies appear to follow the drainages closely in the SW portion of A4. The chargeable anomalies are located within resistive terrains in the NE of A4, implying that they could be possibly related to sulphide mineralization in quartz veins. The chargeable anomalies seem to trend parallel to the inferred faults. A potential gold exploration prospect in A4 block is identified and displayed over the AIIP apparent chargeability.

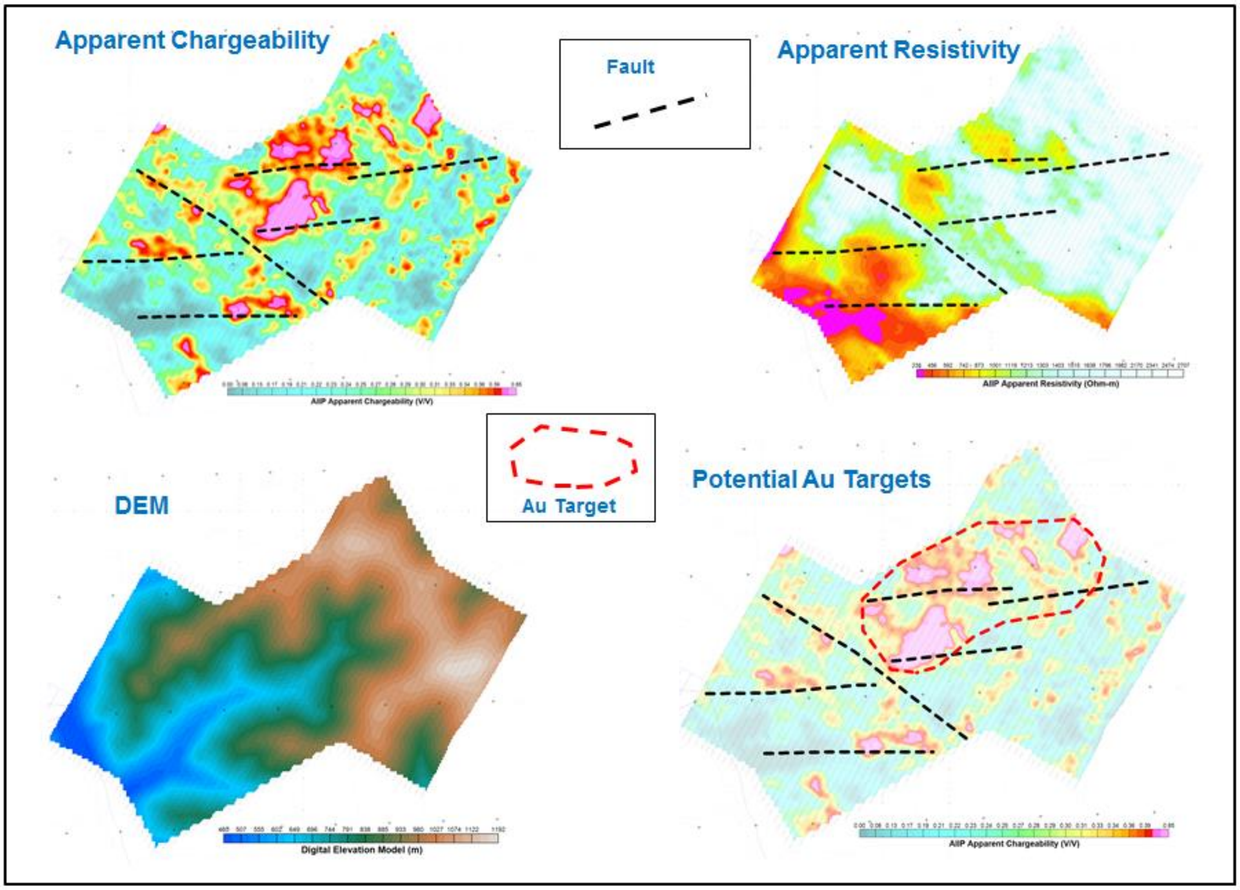

Figure 16: AIIP apparent chargeability, resistivity maps, DEM and potential gold targets, A4 block.

The AIIP apparent chargeability and resistivity maps of A5 block are shown in Figure 17. It appears that the AIIP anomalies don't follow the drainages. The chargeable anomalies in the south of the block are located in resistive terrains and they could be related to sulphides in quartz veins. The chargeable anomalies in the north are located very close to the central conductive zone, which is trending ENE direction and fairly conductive. The central conductive zone could be related to possible massive sulphide mineralization. Potential gold exploration prospects for A5 are identified and shown over the AIIP apparent chargeability.

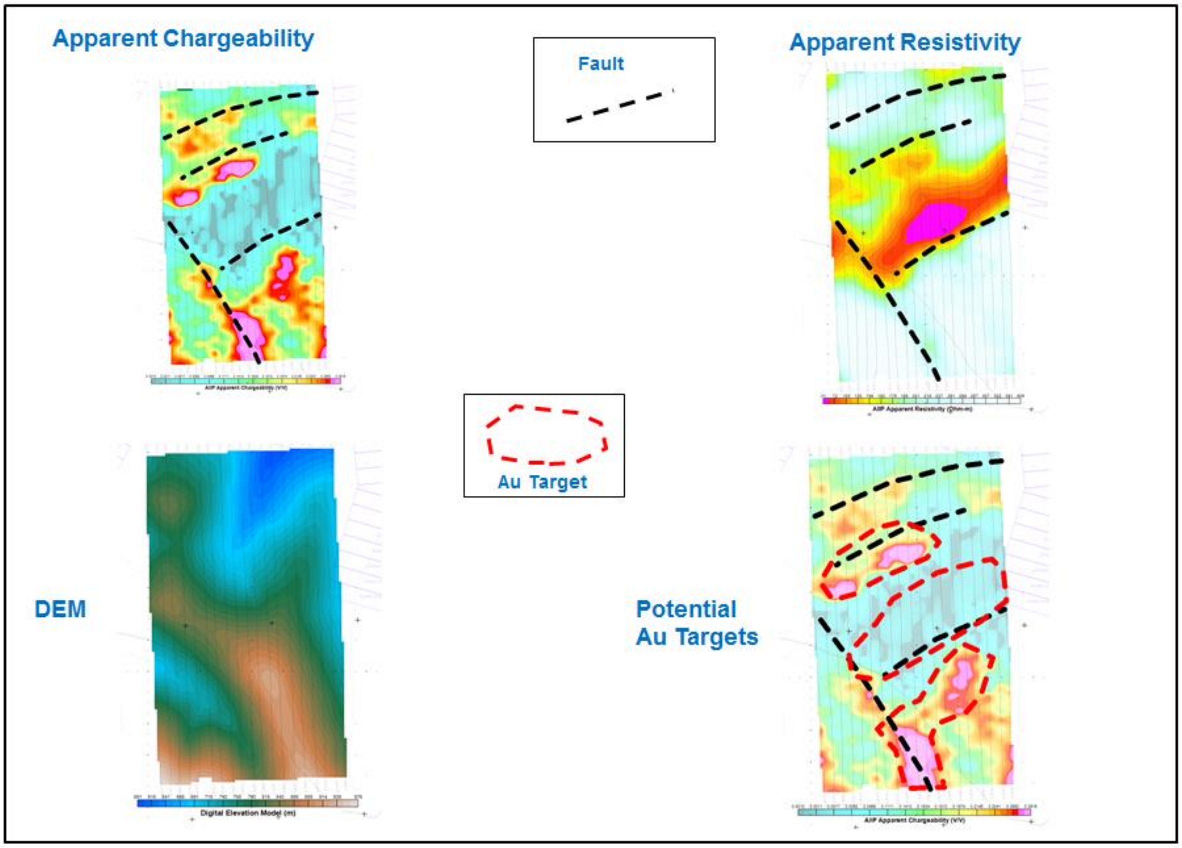

Figure 17: AIIP apparent chargeability, resistivity maps, DEM and potential gold targets, A5 block.

3.4 DISCUSSIONS OF AIIP SOURCES

The following discussions focus on the possible sources of AIIP and implications for the exploration of potential orogenic gold mineralization in the VTEM blocks.

There are three main sources of orogenic gold (Augustin & Gaboury, 2017 and references therein):

1. Intrusion-related sources (e.g. Porphyries);
2. Carbonaceous, pyrite-rich sedimentary rocks (Large *et al*., 2011);
3. Plume-related basaltic rocks (Bierlein & Pisarevsky, 2008);

The first two possible sources of gold could be present in the VTEM blocks.

The majority of orogenic gold deposits formed proximal to regional terrane-boundary structures that acted as vertically extensive hydrothermal plumbing systems, and most deposits are sited in second or third order splays or fault intersections that define domains of low mean stress and correspondingly high fluid fluxes, McCuaig and Kerrich 1998.

The origin of gold in some types of orogenic gold deposits, such as turbidite-hosted, or sediment-hosted gold deposits, is an active research topic. Some of the conventional beliefs and new ideas from Large *et al*., 2011 regarding the carbonaceous pyrite-rich sedimentary source of gold for these deposits are listed below, representing two different theories. In either case, structure, i.e., fault, and hydrothermal activity are two of the most critical factors in the formation of the gold deposits.

Conventional Beliefs	***New Ideas (Large et al., 2011)***
Gold is coming from some deep sources or from crustal granite	Gold is already present in the sedimentary basin
Graphitic sediments are good trap rocks for gold	Graphitic sediments are ideal source rocks for Au & As and other trace elements
Gold is introduced late; i.e., syn-tectonic or post-tectonic	Gold is introduced early; i.e., pre-tectonic and moved around late during tectonism

Some AIIP results have indicated that some hydrothermal alteration products, i.e., hydrothermal pyrite, can generate conductive and chargeable responses in VTEM data. The linear conductive and chargeable trends tend to coincide with or to be locaed in close proximity to fault zones, which acted as conduits for hydrothermal or metamorphic fluids.

The hydrothermal alteration assemblages, i.e., sericitization, carbonatization, sulphidation (pyrite) and etc., are common to many orogenic gold deposits, Bierlein *et al*., 2000, and the recognition of extensive alteration halos around them, especially hydrothermal pyrites, by AIIP mapping represents a potentially powerful tool for gold exploration.

The hydrothermal alteration products in general are fine-grained.

4. CONCLUSIONS AND RECOMMENDATIONS

The AIIP chargeability mapping of VTEM data from the A1-Ophir, A2-Sheba, A3-Hav, A4-Tak, and A5-Etta blocks located within the Coffee Road Property, Yukon, has been carried out.

Potential exploration prospects for orogenic gold mineralization in the blocks are identified and they are recommended for follow-up.

Respectfully submitted,

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ACKNOWLEDGEMENTS

The AIIP chargeability mapping algorithm, developed by Geotech, is based on Airbeo (CSIRO/AMIRA), which is part of a suite of software of project P223F released to the public in 2010 by CSIRO/AMIRA.

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APPENDIX A: AIIP Mapping

INTRODUCTION

Data acquired by airborne in-loop time-domain electromagnetic (EM) systems, such as VTEM™ (Witherly et al., 2004), reflect mainly two physical phenomena in the earth: (1) EM induction, related to ground conductivity, (2) Airborne Inductively Induced Polarization (AIIP), related to the relaxation of polarized charges in the ground (e.g., Kratzer & Macnae 2012 and Kwan *et al*., 2015).

It has been shown by Smith and West (1989) that the in-loop EM system is optimally configured to excite a unique AIIP response, including negative transients in mid to late times over resistive grounds, from bodies of modest chargeability.

Negative transients observed in airborne time domain EM data (e.g. Smith and Klein, 1996 and Boyko et al. 2001) are attributed to airborne inductive induced polarization (AIIP) effects. However, the absence of negative transients does not preclude the presence of AIIP, because of the IP effect takes finite time to build up or the IP effect may be obscured by the conductive ground (Kratzer and Macnae, 2012).

In mineral exploration, near-surface sources of AIIP are clays through membrane polarization (electrical energy stored at boundary layer) and most metallic sulphides and graphite through electrode polarization (electrical charges accumulated through electrochemical diffusion at ionic-electronic conduction interfaces). Some kimberlites in Lac de Gras kimberlite field are known to have AIIP signatures (Boyko *et al*., 2001).

The widely used theory to explain the IP effect is the empirical Cole-Cole relaxation model (Cole and Cole, 1941) for frequency dependent resistivity $\rho(\omega)$,

$$\rho(\omega) = \rho_0 \left[1 - m\left(1 - \frac{1}{1+(i\omega\tau)^c}\right)\right], \quad (1)$$

where ρ_0 is the low frequency asymptotic resistivity, m is the chargeability, τ is the IP relaxation time constant, $w = 2\pi f$, and c is the frequency factor.

The extraction of AIIP chargeability m using the Cole-Cole formulation from VTEM data had been demonstrated by Kratzer and Macnae, 2012 and Kwan *et al.*, 2015.

An improved version of AIIP chargeability mapping tool based on CSIRO/AMIRA Airbeo has been developed for VTEM system and tested on VTEM data from Mt Milligan, British Columbia, Canada, and Tullah, Tasmania.

IMPROVED AIIP MAPPING ALGORITHM

Search for *m* and τ using Airbeo forward modeling

The extraction of the four Cole-Cole parameters (ρ_0, m, τ and c) from airborne VTEM data can be a difficult task. The AIIP mapping algorithm originally developed by Kwan *et al*., 2015 suffers lack of precision for the derived apparent chargeability m and resistivity ρ_0, and is computationally very slow. Geotech has recently developed an improved version of AIIP mapping algorithm, based on Airbeo from CSIRO/AMIRA[1] (Chen & Raiche 1998; Raiche 1998) to extract the (ρ_0, m and τ) parameters while keeping the frequency factor c fixed. The new method applies the Nelder-Mead Simplex minimization (Nelder and Mead, 1965) in the two-dimensional (m,τ) plane. At each required test point (m_i, τ_i), the optimal background resistivity ρ_0 is found by one-dimensional Golden Section minimization (Press *et al*., 2002). The algorithm uses only Airbeo's forward modeling kernel, which can generate synthetic VTEM data with high precision. The Nelder-Mead AIIP mapping algorithm generates much more precise (ρ_0, m, τ) parameters.

The Nelder-Mead Simplex Minimization method can be explained in the five (5) moves, reflection, expansion, outside and inside contraction, and shrink, as illustrated in Figure 1.

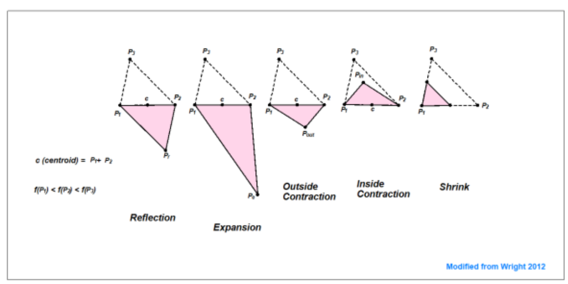

Figure 1: Nelder-Mead Simplex moves (modified from Wright 2012).

The Nelder-Mead Simplex minimization algorithm consists of following steps.

Let $f(\rho_0, \mathrm{m}, \tau)$ be the RMS error function defined as

[1] Commonwealth Scientific and Industrial Research Organization and Amira International;

$$f(\rho_0, \mathrm{m}, \tau) = \frac{1}{N-1} (\sum_{i=0}^{N-1} (\mathrm{f}(\rho_0, \mathrm{m}, \tau, t_i) - v(t_i))^2)^{1/2} . \qquad (2)$$

Step 1 (Sorting)

Sort the vertices such that $f(P_1) < f(P_2) < f(P_3)$. Point P_1 is the best point, P_2 is the next-to-worst point and P_3 is the worst point;

Step 2 (Reflection)

Reflect the worst point P_3, through the centroid of (P_1 and P_2) to obtain the reflected point P_r, and evaluate $f(P_r)$.

If $(f(P_1) < f(P_r) < f(P_2))$, then replace the worst point P_3 with the reflected point P_r, and go to Step 5.

Step 3 (Expansion)

If $(f(P_r) < f(P_1))$, then extend the reflected point P_r, further pass the average of P_1 and P_2, to point P_e, and evaluate $f(P_e)$

(a) If $f(P_e) < f(P_r)$, then replace P_3 with P_e, and go to Step 5
(b) Otherwise, replace the worst point P_3 with the reflected point P_r, and go to Step 5

Step 4 (Contraction or Shrink)

If the inequalities of Step 2 and 3 are not satisfied, then it is certain that the reflected point P_r is worse than the next-to-worst point P_2, $(f(P_r) > f(P_2))$ and, a smaller value of f might be found between P_3 and P_r. So try to contract the worst point P_3, to a point P_c between P_3 and P_r and evaluate $f(P_c)$;

The best distance along the line from P_3 to P_r can be difficult to determine. Typical values of P_c are one-quarter and three-quarter of the way from P_3 to P_r. These are call inside and outside contraction points P_{in} and P_{out};

(a) If $\min(f(P_{in}), f(P_{out})) < f(P_2)$, then replace P_3 with the contraction point P_{in} or P_{out}, and to Step 5.

(b) Otherwise shrink the simplex into the best point, P_1, and go to Step 5.

Step 5 (Convergence Check)

Stop if the standard deviation of f is less than user-specified tolerance *RMSTOL*,

$$\sqrt{\frac{1}{n}\sum_{i=0}^{n-1}(f_i - f_{avg})^2} \leq RMSTOL$$

Perhaps the most important feature in the Nelder-Mead simplex method is Step (4b), the shrink. It allows the shape of the simplex to "adapt itself to the local landscape", Nelder and Mead, 1965. In essence, all the moves in the Nelder-Mead (NM) Simplex method are designed to move away from the worst point.

Han and Neumann 2006 showed that the NM simplex method deteriorates when the number of parameters to be minimized (n) increases. For n=1 or 2, NM convergence is acceptable. As n≥3, NM convergence slows dramatically as N increases. Due to this reason, Geotech applies the NM method only in the 2D (m,τ) plane, to ensure convergence as well as that all the NM moves can be checked visually.

AIIP MAPPING RESULTS

Mt. Milligan, British Columbia, Canada

Mt. Milligan Cu-Au deposit is located within Early Mesozoic Quesnel Terrane that hosts a number of Cu-Au porphyry deposits, Oldenburg et al, 1997. The Mt. Milligan intrusive complex consists dominantly of monzonitic rocks, including the MBX and Southern Star (SS) zones, all which host mineralization at Mt. Milligan (Figure 2). Mineralization in both zones consists of pyrite, chalcopyrite and magnetite with bornite localized along intrusive-volcanic contacts (Terrane Minerals Corp. NI 43-101, 2007). Copper-gold mineralization is primarily associated with potassic alteration with both copper grade and alteration intensity decreasing outwards from the monzonite stocks. Pyrite content increases dramatically outward from the stocks where it occurs in association with propylitic alteration, which forms a halo around the potassic-altered rocks.

Helicopter-borne VTEM surveys, including a small survey over Mt. Milligan, were carried out from July 29th to November 1st, 2007, on behalf of GeoscienceBC as part of the QUEST project in central British Columbia. The data were released to the public by GeoscienceBC and can be downloaded from http://www.geosciencebc.com.

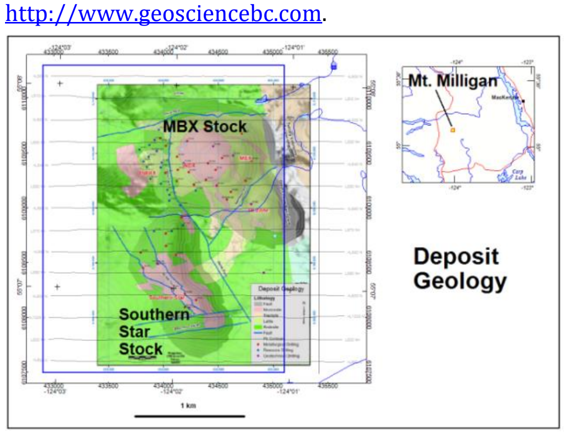

Figure 2: Mt. Milligan geology.

VTEM Z-component data, from 0.091 to 10.126 milliseconds in off-times, were processed to recover the AIP apparent chargeability. Very weak negative transients above noise level are observed in the VTEM data over two locations from survey lines near DWBX and SS. The inverted Cole-Cole chargeabilities are shown in Figure 3. Weak chargeabilities can be seen along the east and west flanks of the MBX stock, especially over DWBX, and in a small area southwest of SS stock. For comparison, the chargeability slice at 40m depth, created by UBC 3D airborne IP inversion of the same VTEM data from Kang *et al*., 2014, is also shown.

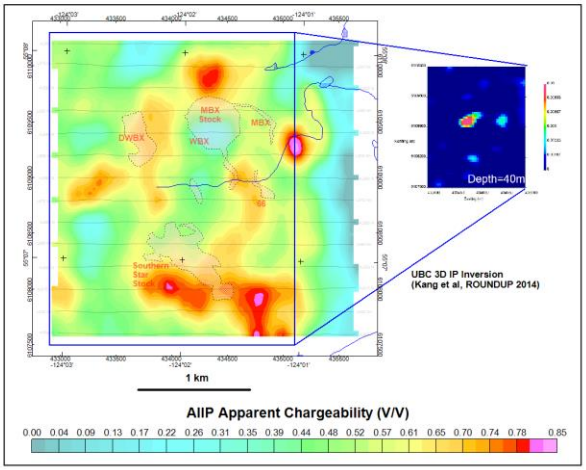

Figure 3: Mt. Milligan AIIP apparent chargeability.

The AIIP apparent resistivity of Mt. Milligan area is shown in Figure 4. A relatively low resistivity halo can be seen surrounding the SS stock.

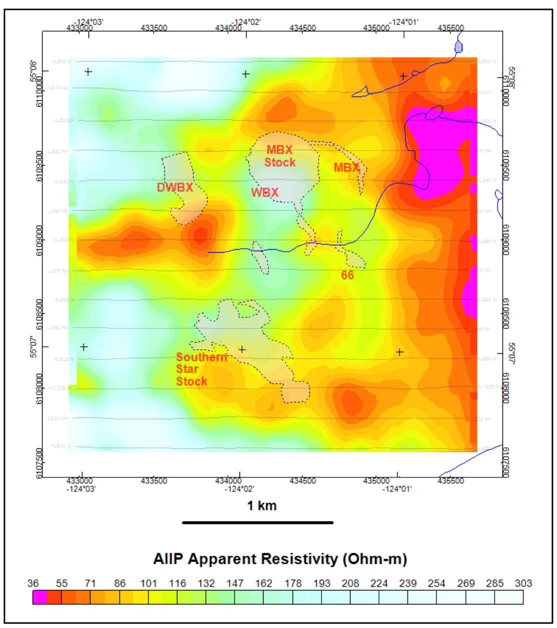

Figure 4: Mt. Milligan AIIP apparent resistivity.

Tullah, Tasmania

The most important metallogenic event in Tasmania occurred in Middle Cambrian as the post collisional proximal submarine volcanism and the deposition of the Mount Read Volcanics (MRV) and associated world-class deposits (Seymour *et al*., 2007).

The study area is located near Tullah, northwest Tasmania. The western half of the study area is covered by Late Cambrian quartz sandstone, Ordovician limestone and Quaternary alluvium and marine sediments (Figure). The eastern half is dominated by the Middle Cambrian volcanics (Corbett, 2002).

The Mount Lyell, located south of the study area, hosts 311 Mt 0.97% Cu and 0.31 g/t Au disseminated chalcopyrite-pyrite ore bodies in alteration assemblages of mainly quartz-sericite or quartz-chlorite-sericite.

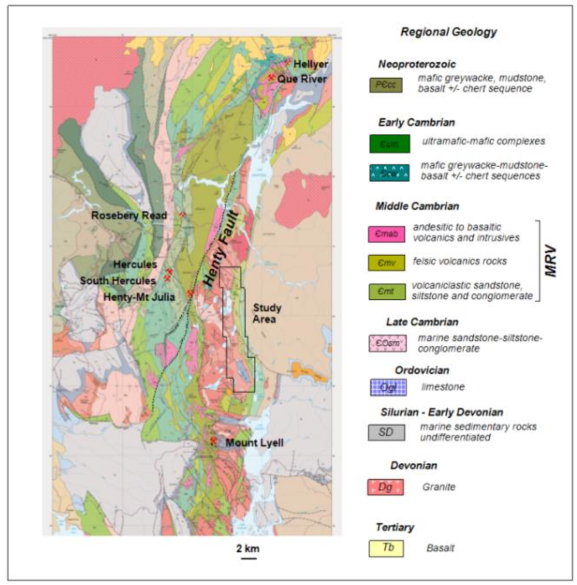

Figure 5: Regional geology of study area, Tullah, Tasmania.

From December 2012 to February 2013, Geotech carried out a helicopter-borne geophysical survey over the study area. Numerous negative transients were observed in the VTEM voltage data (Figure). The Z-component data, from 0.216 to 7.56 milliseconds in off-times, were processed for AIIP apparent chargeability.

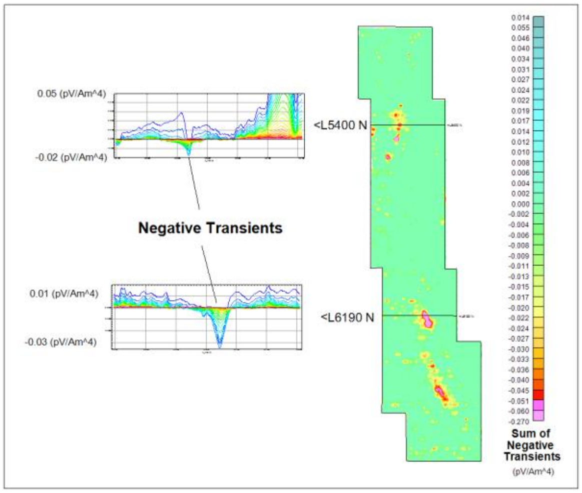

Figure 6: Sum of negative transients and two VTEM profiles, Tullah, Tasmania.

The amplitudes of VTEM data over resistive grounds are relatively now. If the number of decay data in the off-time windows is below a user specified noise threshold, then the decay will be skipped. The calculated AIIP apparent chargeability and resistivity of the study area are shown in Figure . The chargeability map follows the sum of negative transients closely. The sources of the AIIP could be clays or sulphides, or a combination of both.

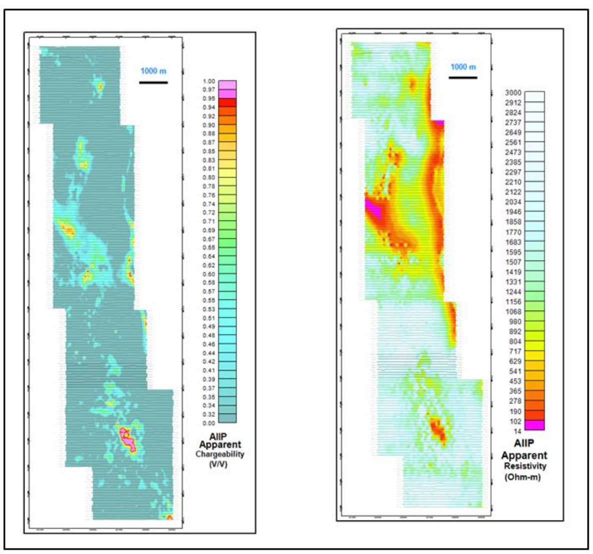

Figure 7: AIIP apparent chargeability and resistivity, Tullah, Tasmania.

DISCUSSION

For real VTEM data contaminated with noise and geology different from uniform half-space, two constraints, a restricted range of inverted apparent resistivity and the use of proper frequency factor, are required in order to for AIIP mapping tool to generate geologically meaningful outputs.

The range of acceptable inverted AIIP apparent resistivity can be estimated by other means and one of them is the Resistivity Depth Imaging (RDI) technique based on the transformation scheme described by Meju (1998).

Extensive discussions on frequency factor are provided in Pelton *et al*. (1978). A reasonable average of frequency factors can be obtained using AIIP forward modeling of VTEM decays of selected locations within a survey area. If the frequency factors are widely distributed, then AIIP mapping should be run using several frequency factors.

CONCLUSION

An improved version of AIIP mapping tool based on Airbeo (CSIRO/AMIRA) has been created for the in-loop VTEM system, which is optimally configured to excite a unique AIIP response, including negative transients in mid to late times over resistive grounds from bodies of modest chargeability. Test results on field VTEM data prove that the new AIIP mapping tool can work, if the inverted resistivity range is restricted and the proper frequency factor is used. The derived AIIP apparent chargeability map provides additional information for the interpretation of VTEM data.

ACKNOWLEDGMENTS

We would like to thank Yunnan Tin Australia Pty Ltd. for permission to use the VTEM data from an area near Tullah, Tasmania for this study. This work is not possible without the source codes from CSIRO/AMIRA project P223F.

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APPENDIX B: Final Deliverables

B1: Databases

A1_ch25t55_aiip_final.gdb;
A2_ch25t55_aiip_final.gdb;
A3_ch20t55_aiip_final.gdb;
A4_ch20t55_aiip_final.gdb;
A5_ch25t55_aiip_final.gdb;

Database channel descriptions;

A1, A2 and A5 blocks

Channel	Descriptions	Unit
x	UTM Easting (NAD83, UTM zone 7N)	meter
y	UTM Northing (NAD83, UTM zone 7N)	meter
radarb	EM TX-RX height above ground	meter
sfzo	Observed dB/dt Z component array (Ch 25 to 55), 31 chs	pV/Am^4
sfzc	Calculated dB/dt Z component array (Ch 25 to 55), 31 chs	pV/Am^4
chg_final	Final AIIP apparent chargeability	V/V
res_final	Final AIIP apparent resistivity	Ohm-m

A3 and A4 blocks

Channel	Descriptions	Unit
x	UTM Easting (NAD83, UTM zone 7N)	meter
y	UTM Northing (NAD83, UTM zone 7N)	meter
radarb	EM TX-RX height above ground	meter
sfzo	Observed dB/dt Z component array (Ch 20 to 55), 36 chs	pV/Am^4
sfzc	Calculated dB/dt Z component array (Ch 20to 55), 36 chs	pV/Am^4
chg_final	Final AIIP apparent chargeability	V/V
res_final	Final AIIP apparent resistivity	Ohm-m

B2: Grids

A#_chg_finalw.grd: AIIP apparent chargeability grids;
A#_res_final.grd: AIIP apparent chargeability grids;