Geochemical & Airborne Survey Assessment Report:

Rotary Air Blast (RAB) Drill, Soil Sampling, & XCAM fixed wing aerial survey

RUDE CREEK GOLD PROJECT

Claims in grouping number HW07561:

Royal 1-12	YC60328-39
ANN 1-32	YD109321-52
ANN 41-72	YD109361-92
ANN 81-107	YD109401-27
ANN 120-140	YD109440-60
ANN 187-190	YD109507-10
ANN 192	YD109512
Poker 1-16	YD19001-16
Poker 21-39	YD19021-39
Poker 40-56	YD18940-56
Poker 65 - 68	YD18965-68
Poker 70 - 77	YD18970-77
Poker 79 - 89	YD18979-89

WHITEHORSE Mining District
NTS: 115J/10
Latitude: 62.666º N Longitude: -138.576 º W

Geochemistry Work Performed On: Sept 21, 2016
RAB Drilling Performed On: Aug 11-14, 2016
XCAM Aerial Survey Performed On: June 25, 2016

Prepared for 0890763 BC Ltd.
By GroundTruth Exploration

Written by: Adam Fage, P.Geo. January 29, 2017

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1 Introduction

0890763 BC Ltd commissioned Ground Truth Exploration Inc. ("Ground Truth") out of Dawson City, Yukon to perform an Air Blast (RAB) Drill program, soil sampling, and a high-resolution airborne photographic survey on their Rude Creek Gold Property (the "Property"). The Property is located in Yukon's White Gold belt, approximately 100 km west of Pelly Crossing, YT, and 25 km south of, and on structural trend with, Goldcorp's Coffee Project, in the Whitehorse Mining District on NTS Map Sheet 115J/10 (Figure 1). The approximate center of the property is 62.666º N Lat, -138.576 º W Long.

A total of 158 soil samples were collected on the property on 21 September, 2016. This sample program was designed to establish a grid over the NE soil anomaly to cover geochemical and geophysical targets identified in previous years.

One RAB drill hole (totaling 290 ft) was drilled on the Trombley anomaly. The drill hole tested targets defined by soil geochemical anomalies with supporting Magnetic and Resistivity/IP data and following up on 2015 RAB drilling.

An XCAM aerial survey was flown over the entire property on June 25, 2016.

Results and interpretation of these surveys form the basis of this report.

2 Property Description

The Rude Creek Gold Property is located in the central-western part of Yukon, approximately 100km west of Pelly Crossing, 135km northwest of Carmacks and 160km south of Dawson City (Figure 1). The center of the property is located at Latitude 62.666º N and Longitude -138.576 º W.

The property is located in an unglaciated region of the Dawson Range. Elevations range from 760m to 1430m. Vegetation is typical of the Boreal forest, with mixed white and black spruce forests in valley bottoms, stunted black spruce and moss matt forests underlain by permafrost on north facing slopes and as elevation increases, transitioning into moss, talus and felsenmeer with increasing elevation. Tors are common on ridgetops in the area. The typical climate of the area is moderate precipitaiton, warm summers, and cold winters.

Access to the property is by helicopter from Dawson or Carmacks, or by fixed wing to the Rude Creek Airstrip, on claim: POKER 56. There are local roads located on the

property, including a winter road to the Sonora Gulch Property last used in 2010 by Western Copper.

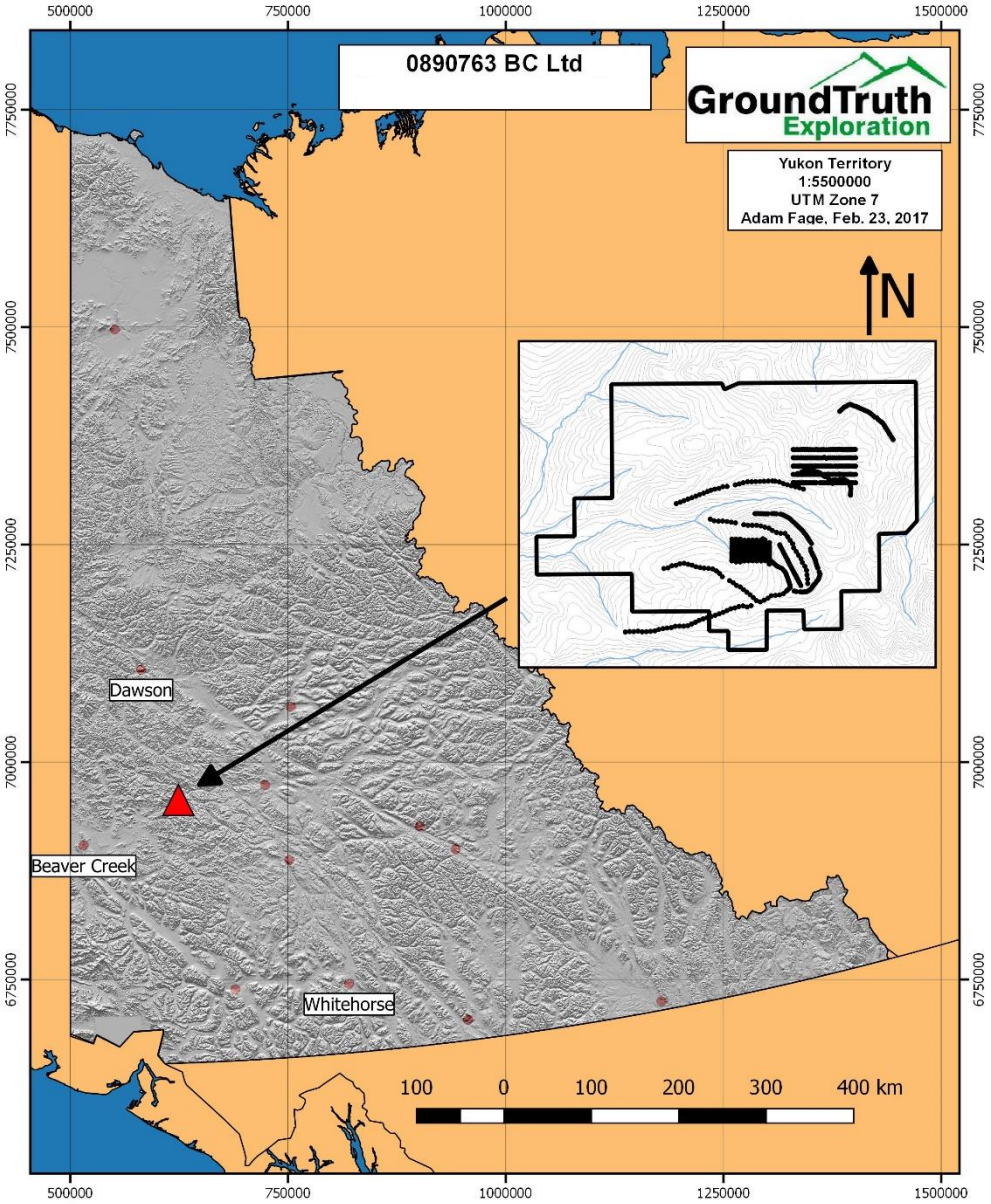

Figure 1: Location of the Rude Creek property, Yukon, Canada

3 Claim Information

The Rude Creek Gold Project is registered in the Whitehorse Mining district on mapsheet 115J/10. (Figure 2, Appendix D) It encompasses 4157 hectares and is composed of the following 204 claims in grouping number HW07561:

Claim name	Grant Number	Owner	Operator
Royal 1-12	YC60328-39	Shawn Ryan - 70%, Wildwood Explorations Inc. - 30%	0890763 BC Ltd
ANN 1-32	YD109321-52	0890763 BC Ltd – 100%	0890763 BC Ltd
ANN 41-72	YD109361-92	0890763 BC Ltd – 100%	0890763 BC Ltd
ANN 81-107	YD109401-27	0890763 BC Ltd – 100%	0890763 BC Ltd
ANN 120-140	YD109440-60	0890763 BC Ltd – 100%	0890763 BC Ltd
ANN 187-190	YD109507-10	0890763 BC Ltd – 100%	0890763 BC Ltd
ANN 192	YD109512	0890763 BC Ltd – 100%	0890763 BC Ltd
Poker 1-16	YD19001-16	Farrell J. Andersen - 100%	0890763 BC Ltd
Poker 21-39	YD19021-39	Farrell J. Andersen - 100%	0890763 BC Ltd
Poker 40-56	YD18940-56	Farrell J. Andersen - 100%	0890763 BC Ltd
Poker 65 - 68	YD18965-68	Farrell J. Andersen - 100%	0890763 BC Ltd
Poker 70 - 77	YD18970-77	Farrell J. Andersen - 100%	0890763 BC Ltd
Poker 79 - 89	YD18979-89	Farrell J. Andersen - 100%	0890763 BC Ltd

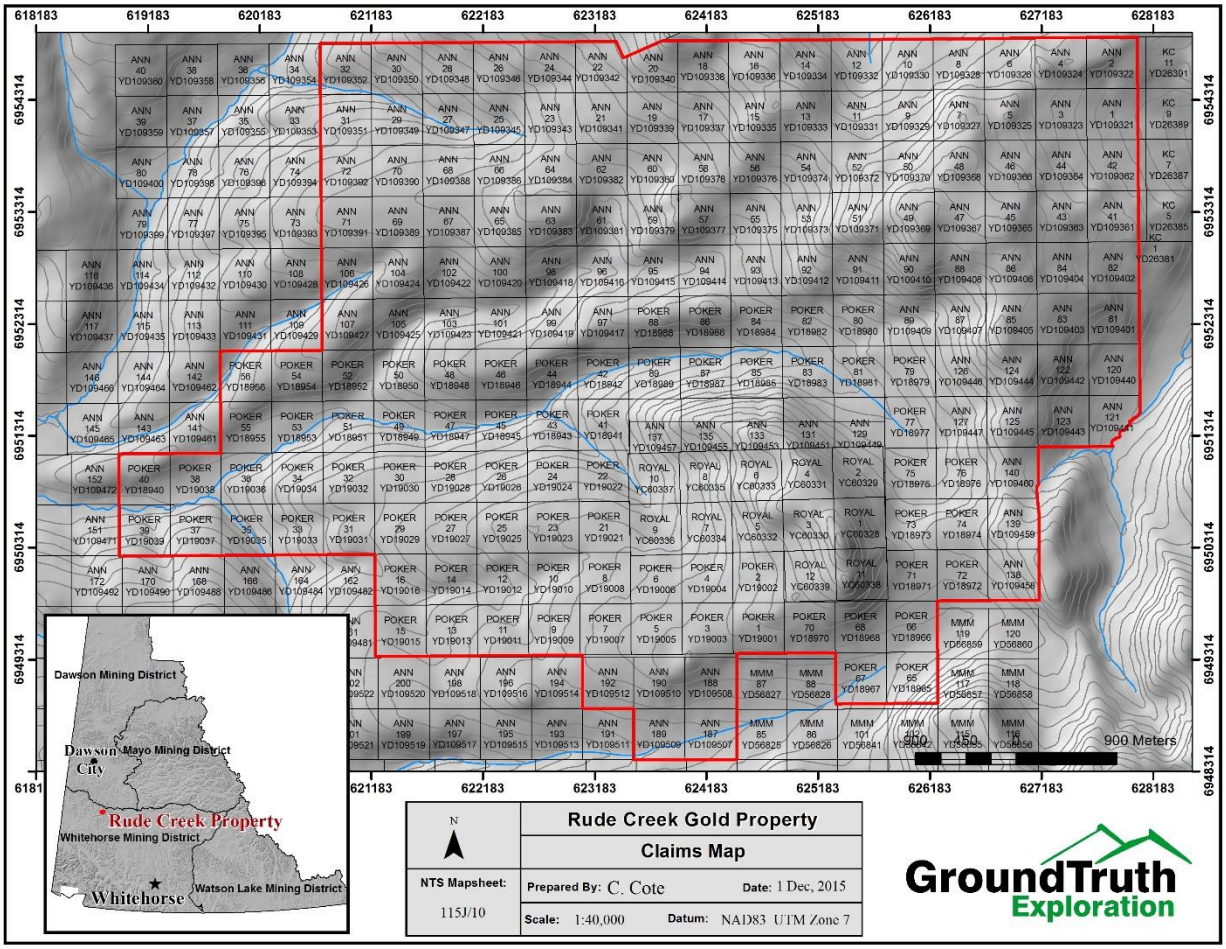

Figure 2: Claim Map of the Rude Creek property

4 History

The Haxe occurence (Minfile #115j 020) is located 200m east of the 2014 geophysics and soil sample grid on claim Royal 5. A history of the area surrounding this minfile is summarized below by B. Jaworski, in his YMEP application:

> "After an extensive data compilation and target selection exercise in early 1999 by Prime Properties Syndicate, the Rude Creek area was first identified as one of six strong intrusive related (Pogo style) target areas within the western portion of the Canadian Yukon Tanana terrain. Previous workers in the Rude Creek area focussed on later stage (Late Cretaceous) Casino style Cu-Mo mineralization. However, geochronological data released in 1995 allowed for a clear spatial and temporal distinction between Mid-Cretaceous and Late-Cretaceous geology at

Rude Creek. This distinction justified a new exploration model to be tested in the area.

Key attributes identified at Rude Creek by Prime Properties in 1999 were as follows:

- G.S.C. silt geochemistry strongly anomalous in Au (300 ppb), As (44 ppm), W (50 ppm) and Sb (5.2 ppm), moderately anomalous Mo and weakly anomalous Sn (Bi, Te not available in database). Reported occurrence of bismuth (Bi) and scheelite (calcium tungstate) in the placers. Quartz vein occurrences in the area.
- Mid Cretaceous intrusives, with coincident magnetic high anomalies and felsic composition, regionally intruding schist and gneiss of the Yukon Tanana Terrane.
- Spatial association with northwesterly and north-easterly trending structures.
- A long history of placer mining.

After the initial field season in 1999 (by optionee Prospector International), the six target areas were filtered down to two key properties: Rude Creek and Coffee Creek. In 2000, follow-up work consisting of grid soil sampling successfully identified strong anomalies on both properties. At Coffee Creek, further work by Shawn Ryan at led to Kaminak optioning the ground and discovering a large scale gold system (currently totalling 2.8moz grading 1.43 g/t in Indicated and 1.6moz grading 1.17 g/t in Inferred, including a 2P reserve totalling 2.16moz grading 1.45 g/t).

At Rude Creek, the 1999 and 2000 field programs identified an east-west trending, 150-metre by 550-metre Au-in-soil anomaly, defined by the 90th percentile value of 38 ppb Au. Gold values reached up to 1254 ppb and 331 ppb Au and were coincident with Bi (up to 39.35 ppm), As (up to 157 ppm) and Ag (up to 3071 ppb). The anomaly remains open to the east and west and is underlain by locally tourmaline-bearing, rusty, silicified, potassically-altered and chloritized biotite-hornblend granodiorite.

The following is a summary of work to date on the Royal 1-12 claims (the key part of our Rude Creek project; covered by the ‘EIO’ claims in 1999/2000):

- 1999: 4 mandays including 16 reconnaissance soil samples, 2 rock chip samples, 1 float sample and several hand-samples (see compilation map in Exhibit 18);

- 2000: 1 silt sample, and 75 grid soil samples collected at 50m spacings along lines 100m apart (see compilation maps in Exhibits 19-22);

- 2004/2005: Prime Property's EIO claims expired; Shawn Ryan stakes the area thereafter as the Royal 1-12 claims;

- 2007: Shawn Ryan conducted a one-day reconnaissance soil line (see Exhibit 13);

- 2011: Ethos Exploration optioned the ground from Shawn and subsequently conducted a reconnaissance soil line; the limited level of work was likely related to the small size of the property position (see Exhibit 13).

In 2010, Bart Jaworski staked the remainder of the Rude Creek area with partners from Raymond James, via a new private company (0890763 B.C. Ltd.) and proceeded to stake the ANN 1-316 claims. The claims were optioned to Silver Quest Resources Ltd. (SQI-V) who conducted the following work program in 2011 (covering ANN 1-316, various Poker claims, various BC claims and KC1-12 claims):

- Airborne magnetic and radiometric geophysical survey (1351 line km), totalling approximately $140k; the work confirmed there was a large (roughly 10km x 10km mag-high anomaly centred around the headwaters of Rude Creek

- Reconnaissance soil sampling (321 samples; B horizon); results identified a roughly 2km x 3km area of strong (>98%ile) anomalism located in the NE portion of the ANN 1-316 claim block (immediately north of the headwaters of Rude Creek). Anomalous elements included Au-Bi-As-W-Sn. The highest gold-in-soil sample totalled 87ppb (versus 98%ile for gold was 18.6ppb)."

The 2014 work program consisted of a soil sampling component and a resistivity/IP component primarily over the Trombley anomaly. 172 soil samples were collected on the property on 31 July, 2014. These samples were designed to validate and infill previous geochemical surveys, as well as provide support for interpretation of the Resistivity/IP profiles.

A grid of six Resistivity/IP profiles was surveyed over the geochemical anomaly on 25-28 August, 2014. The purpose of the IP survey is to define the underlying geological

structure and horizontal extent of mineralized zone, in order to produce drilling targets for follow up work.

In 2015, a 166 soil sample program was designed to extend the Trombley soil grid to the west in order to cover geochemical and geophysical targets identified in previous years and to infill previous recce soil lines in the North-East anomaly of the property. This program identified the NE zone which has been gridded over in 2016.

Two RAB drill holes were drilled on the Trombley anomaly in 2015, totaling 426 ft. The drill holes tested targets defined by soil geochemical anomalies with supporting Magnetic and Resistivity/IP data. No significant anomalous gold mineralization was encountered in either of the RAB holes, in large part reflecting reliance on historic soil sample locations which could not be verified with a high degree of accuracy

In general, a review of the historic data collected thus far indicates a new, strong intrusive-related gold target on trend and proximal to the Coffee Creek deposit, White Gold area, Yukon.

The following evidence, in combination with soil anomalies on the NE part of the property, strongly suggests that this area is the source of the productive Rude Creek placers:

- Identifying a strong gold-in-soil anomaly trending in a NW-SE direction and open along strike in both directions.
- Identifying a major NW-SE structural trend corroborated with the geophysics and geochemistry.
- Refining geological mapping/interpretation on the property scale using RES/IP. Specifically: indicating the presence of a younger silicified “plug” of Upper Cretaceous quartz monzonite to dacite porphyry.
- Refining/identifying drill targets by relating gold-in-soil anomaly with subsurface imaging of structural features using the resistivity/IP survey.

4.1 Geological Interpretation

The most recent (2011) geological mapping done in the area shows the presence of an Upper Cretaceous quartz monzonite to dacite porphyry plug at the headwaters of Rude and Trombley Creeks. A secondary smaller plug not shown in the geological mapping

may be present in the western portion of the 2014 RES/IP grid. This silicified plug is indicated by a circular resistivity high feature.

4.2. Soil geochemistry at Trombley Anomaly

As stated above, the Trombley anomaly was first identified in 1999 and 2000 as an east-west trending, 150-metre by 550-metre Au-in-soil anomaly, defined by the 90th percentile value of 38 ppb Au. Gold values reached up to 1254 ppb and 331 ppb Au and were coincident with Bi (up to 39.35 ppm), As (up to 157 ppm) and Ag (up to 3071 ppb). In 2014 and 2015, the area was re-sampled with better location control and orientation relative to the slope. The re-sampling confirmed the tenor of the overall gold anomaly and its strong correlation primarily with arsenic and bismuth (see Figure 3, 4 and 5, below).

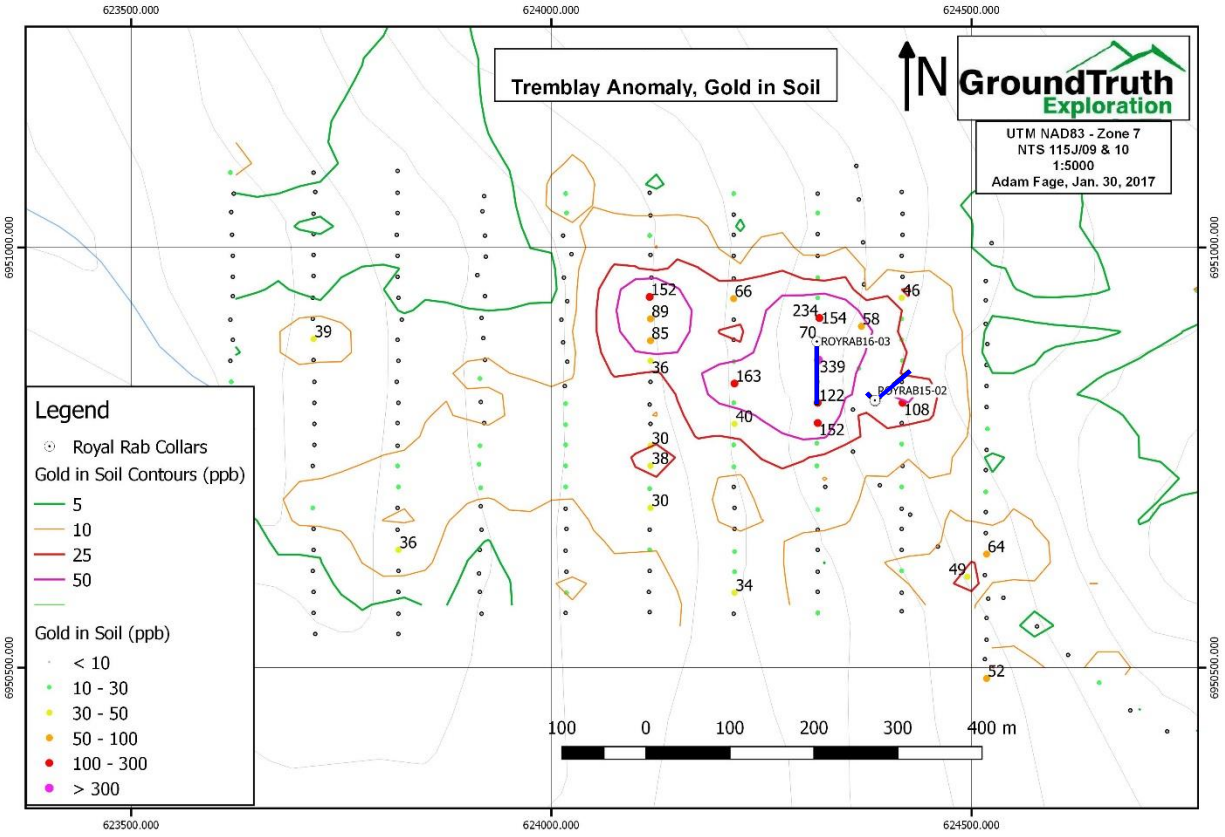

Figure 3: Gold-in-soil contours (and RAB drilling) at Trombley anomaly

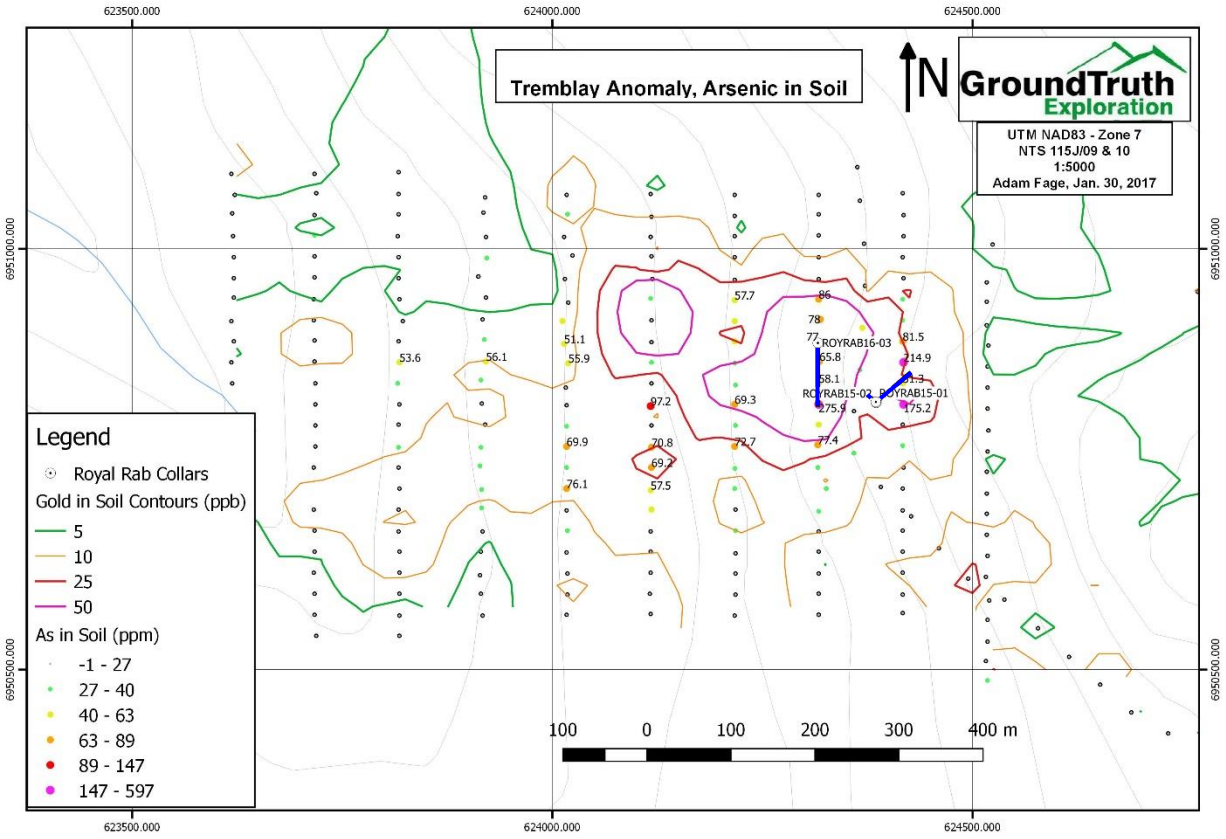

Figure 4: Arsenic-in-soil geochemistry (and RAB drilling) at Trombley anomaly

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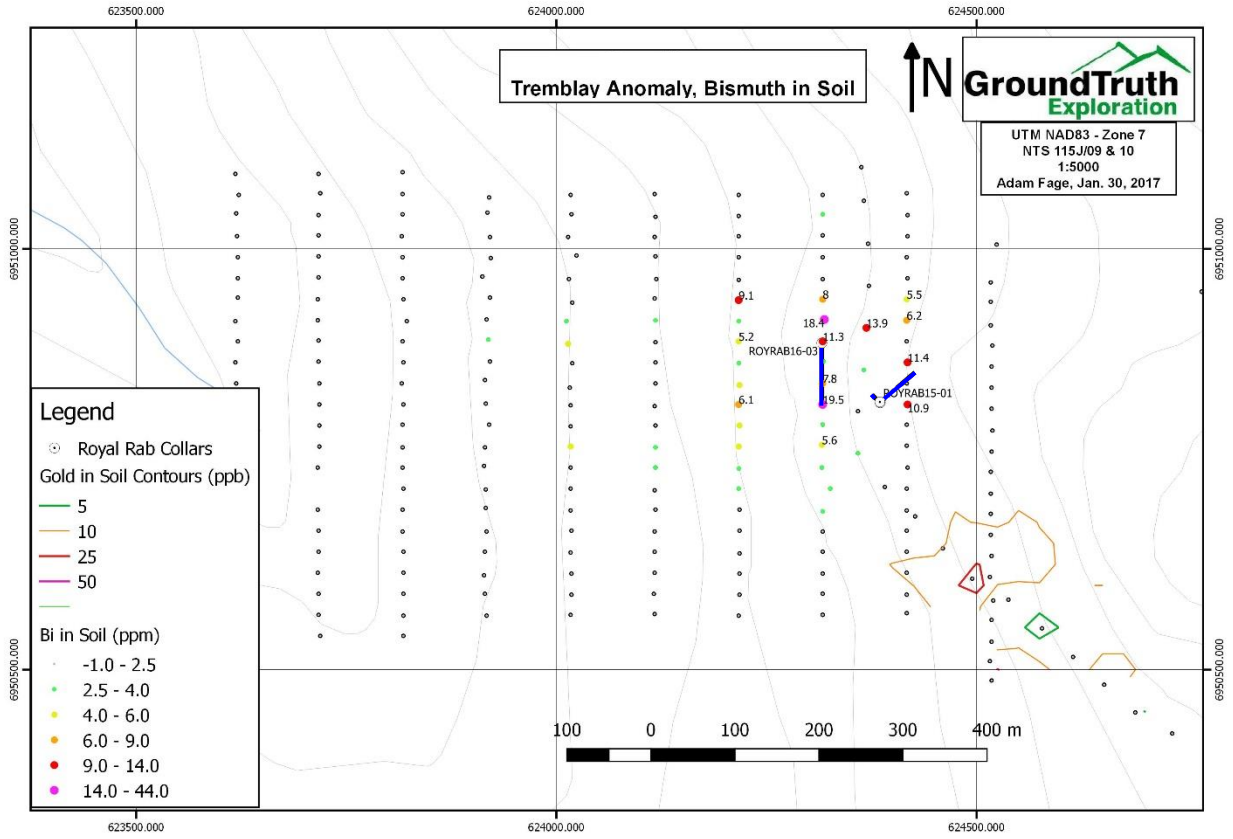

Figure 5: Bismuth-in-soil geochemistry (and RAB drilling) at Trombley anomaly

4.2 Subsurface Structural Features

The resistivity inversions show a large near vertical res high anomaly trending NW-SE, with the highest values centered over lines 02 and 03 (Figures 3-5). Line ROYIP14-02 shows a prominent vertical resistivity low structure (between 200 and 240m) corresponding with a bordering IP high. This would make an ideal target for follow up drill work.

The IP inversions also show a general NW-SE trending zone of chargeability characterized by a broad zone of high chargeability in the West, branching into two smaller lineaments to the East (Figures 3-5).

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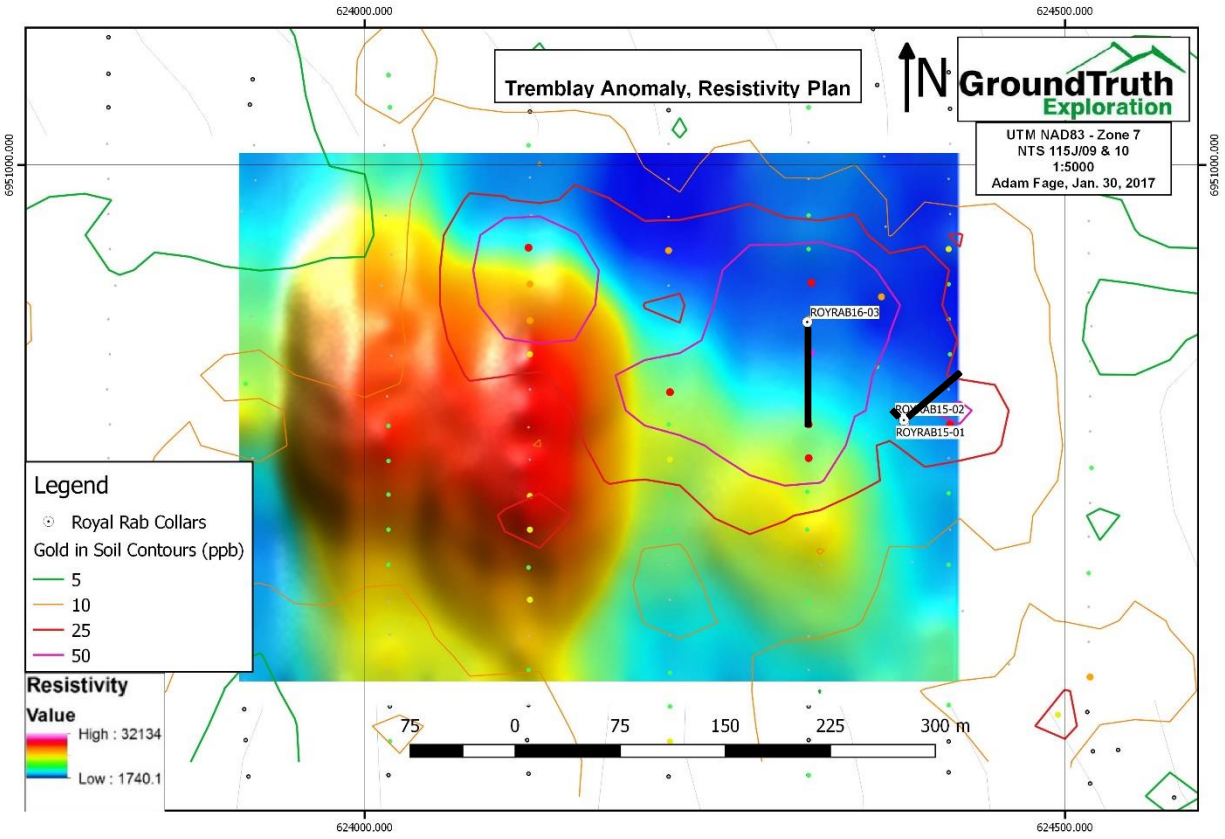

Figure 6: Resistivity (and gold-in-soil contours, RAB drilling) at Trombley anomaly

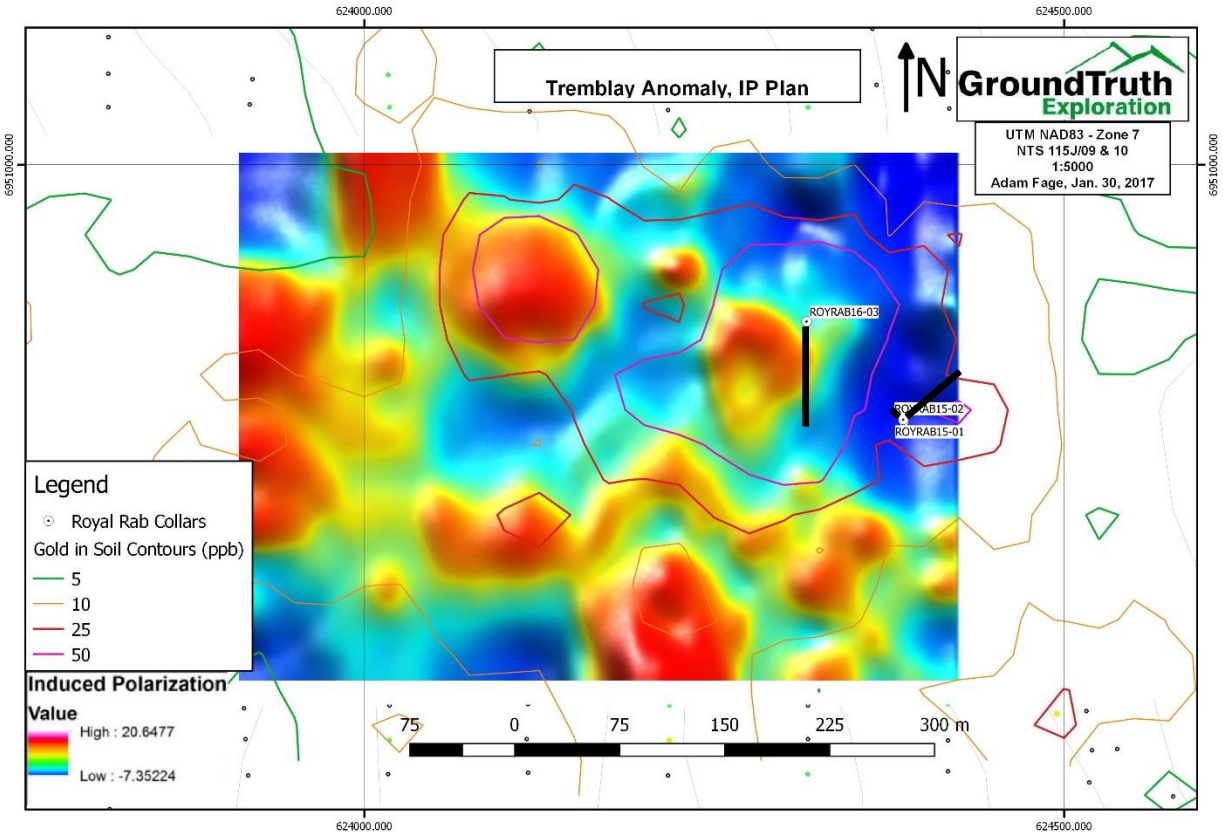

Figure 7: Induced polarization at 40m depth (and gold-in-soil contours, RAB drilling) at Trombley anomaly

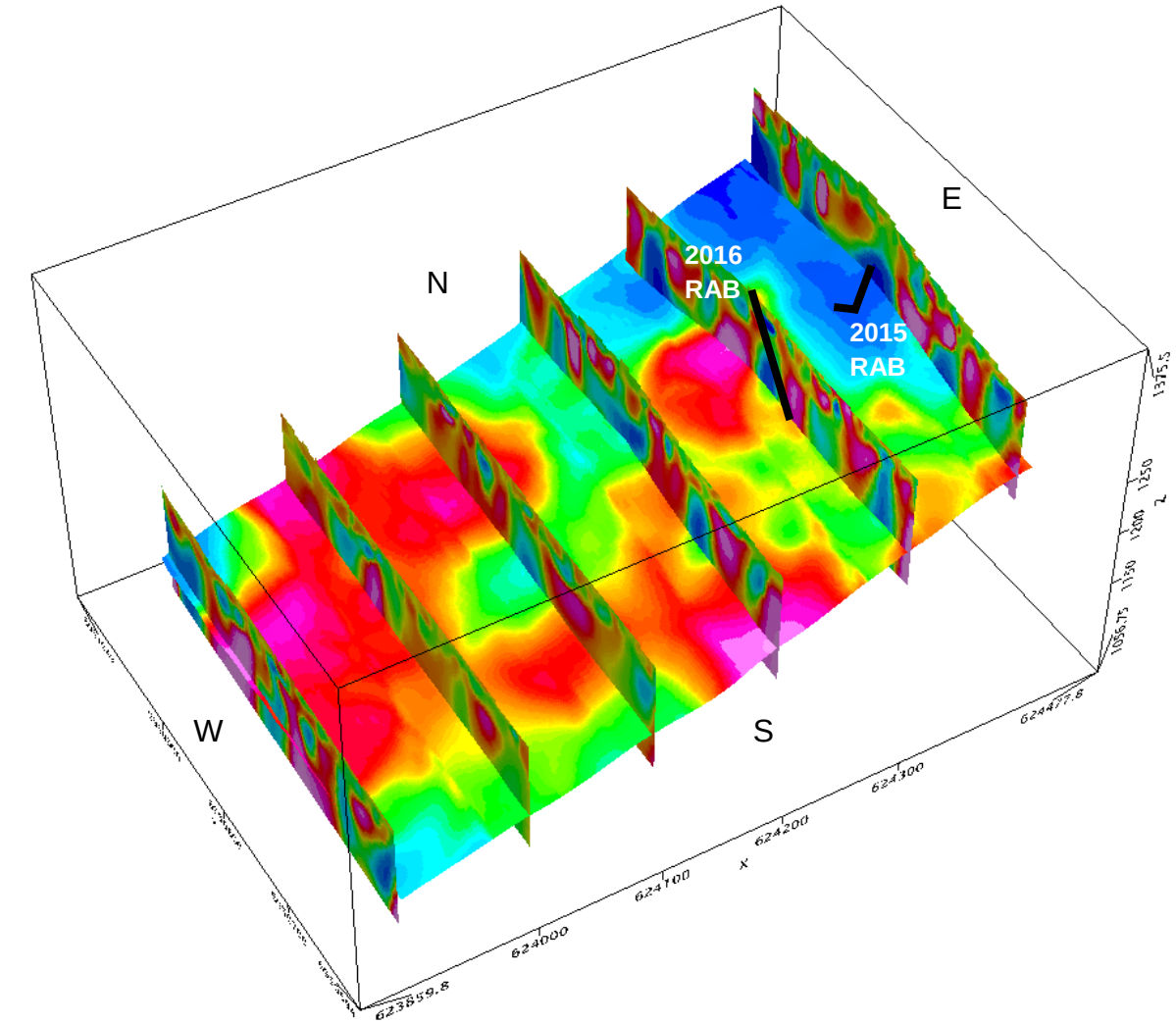

Figure 8: Induced polarization plan (70m depth) and profiles in 3D (and approximately trace of RAB drilling) at Trombley anomaly

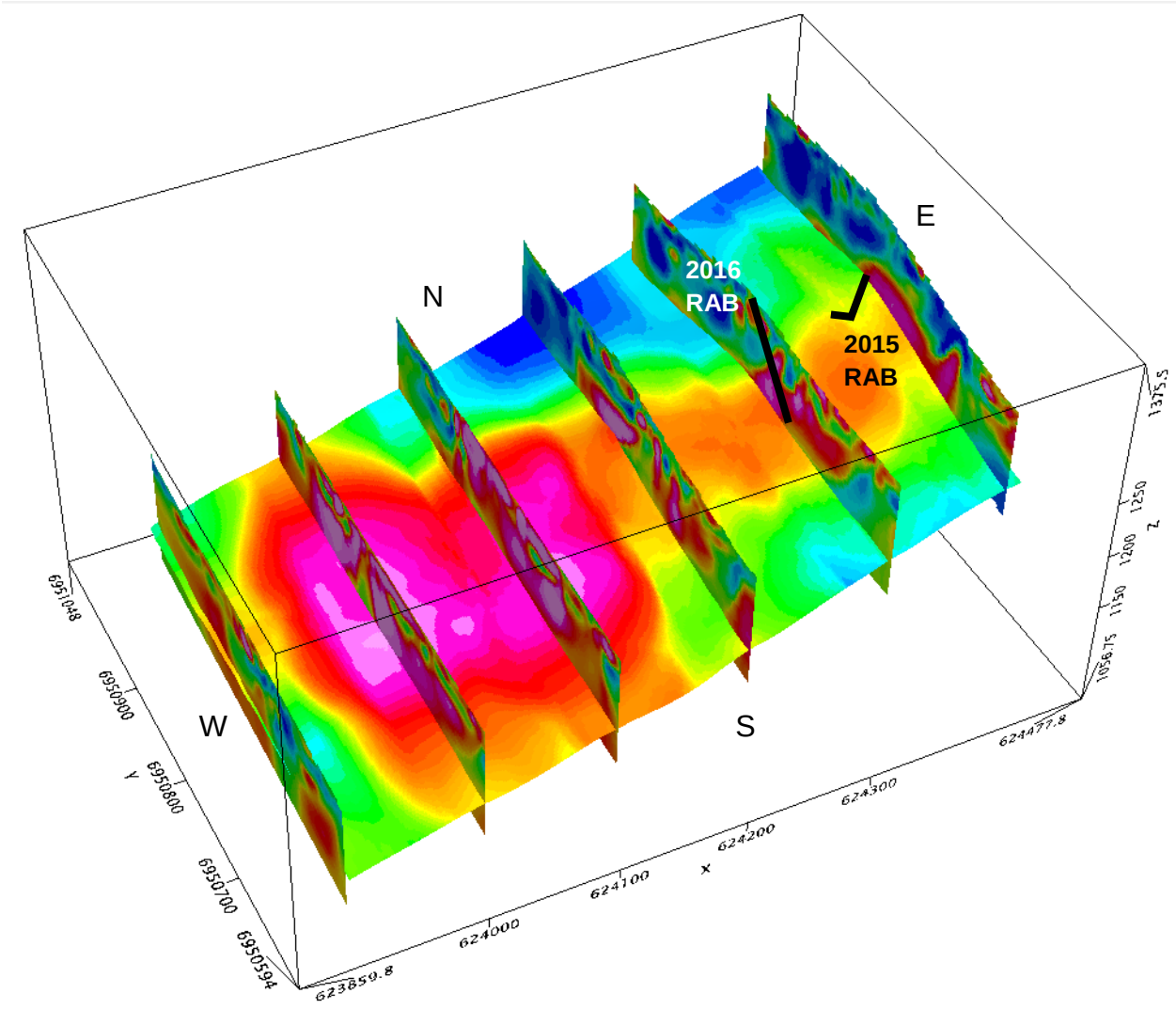

Figure 9: Resistivity plan (70m depth) and profiles (and approximate trace of RAB holes) in 3D at Trombley anomaly

5 Geology

5.1 Regional Geology

The Project area occurs within the Yukon Tanana Terrane, which underlies much of the central and western Yukon and east central Alaska. The property area itself is mapped as Middle to Late Cretaceous calc-alkaline I-type quartz monzonite and hornblende

granodiorite (Gordey et al, 2003). The major structure mapped in the area is the NW-SE trending strike-slip Dip Creek Fault.

The Rude Creek area (dotted circle, Figure 10) is drained by a historical and currently producing placer creek, and underlain by mid-cretaceous granodiorites. The Casino copper-molybdenum porphyry deposit borders it to the north-west, and the Mount Cockfield “failed porphyry” system borders it to the south-east. The occurrence of the Casino and Mount Cockfield porphyry systems indicate the presence of deep structural breaks in the region. The NE/SW trending regional structure separating the Rude Creek area from the Casino area may be a result of long-term magmatic activity in the area. The Rude Creek area is also along trend from the Coffee Creek gold deposit.

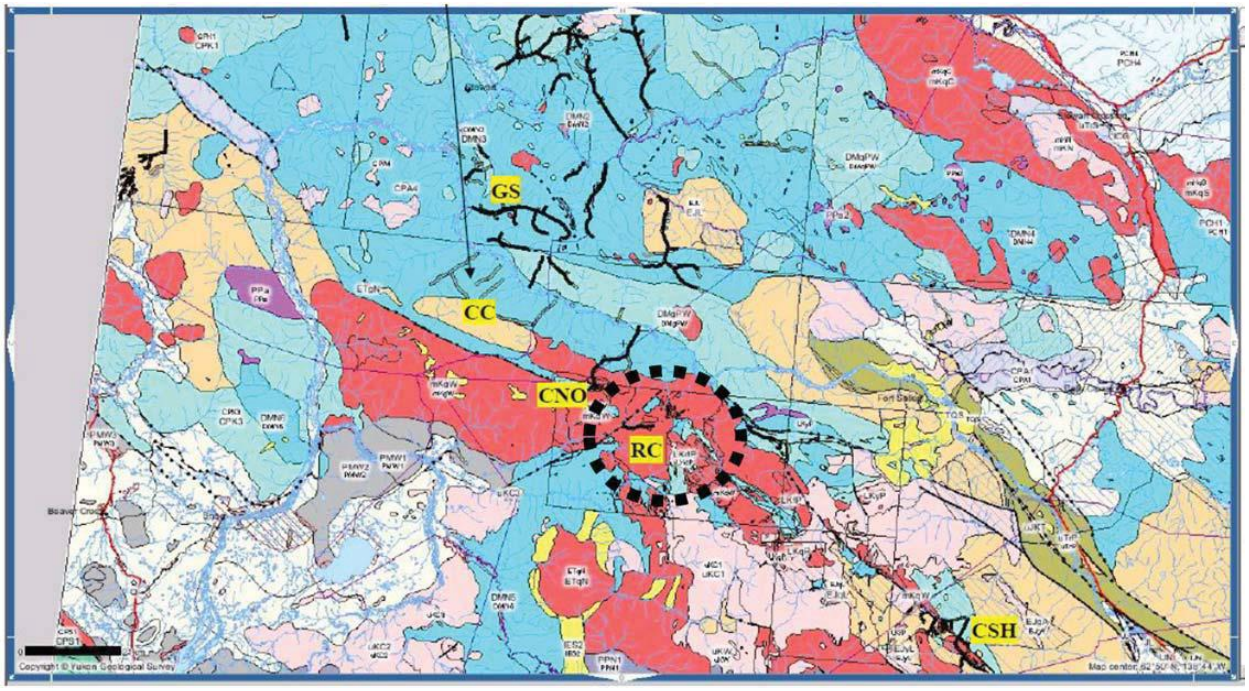

Figure 10: Regional Geology with placer occurrences
Note: placer creeks in bold; Source: Yukon Geological Survey; Bart Jaworski

5.2 Property Geology

Geology on a property scale consists almost entirely of mid Cretaceous Dawson Range granodiorite of the Whitehorse Suite (as per Jim Ryan et all, 2013). At the headwaters of Rude Creek and Trombley Creek is a newly mapped plug of Upper Cretaceous quartz monzonite to dacite porphyry. An old showing (115J020) called Haxe occurs on the western edge of this plug, consisting of polymetallic Ag-Pb-Zn, +/-Au veins. The Haxe occurance may be related to late Cretaceous events (i.e. not part of the mid-Cretaceous intrusive related target).

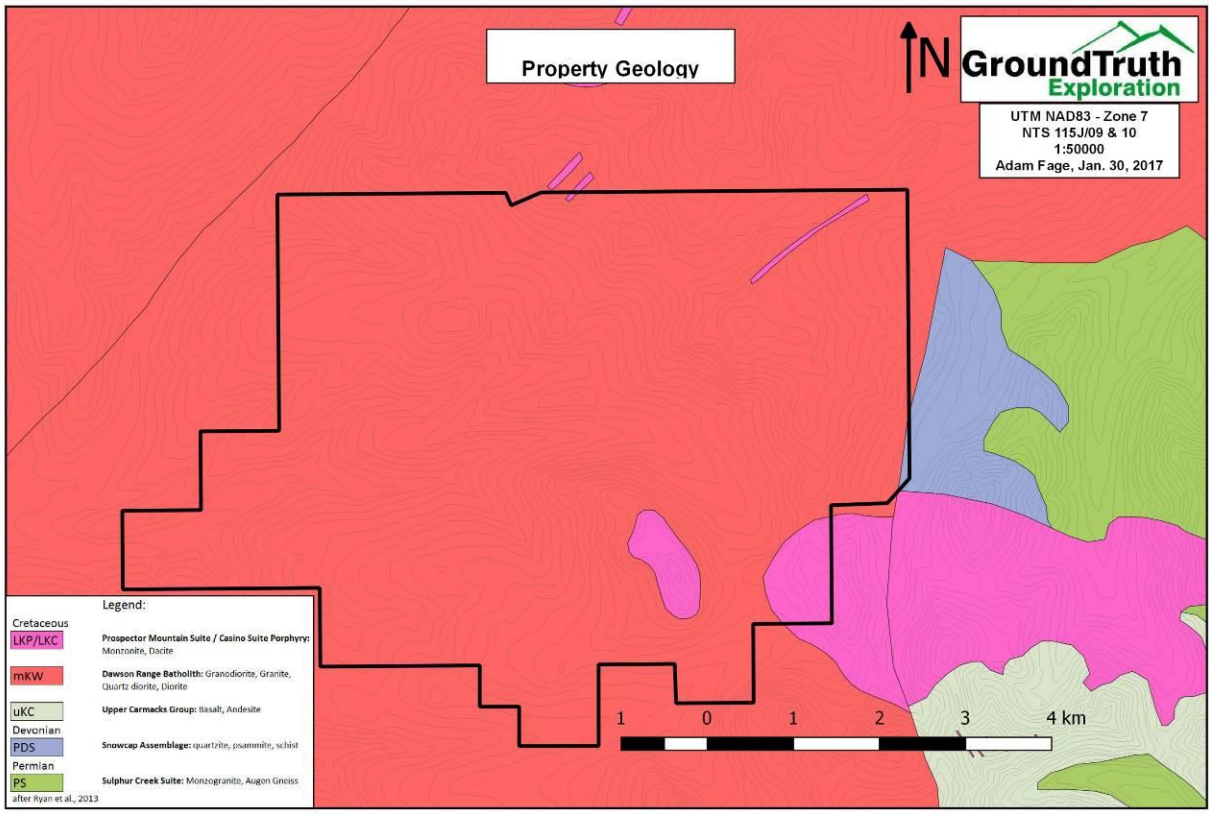

Figure 11: Local Geology of the Rude Creek Property
Source: GSC (Jim Ryan, et al, 2013)

6 Soil Survey

6.1 Introduction

The 2016 soil program consisted of sending a 5 man crew from Dawson City for a one day detailed sampling program to collect 158 soil samples with the objective of placing a grid over the NE anomaly.

Sampling took place on 21 September, 2016.

6.2 Personnel

The survey was conducted by the following GroundTruth Exploration personnel:

1. Yoann Voyer	Crew Boss
2. Jack Tafaro	Geo Technician
3. Mark Severinsen	Geo Technician
4. Dan Brown	Geo Technician
5. Brian Hyde	Geo Technician

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6.3 Soil Sampling Survey Procedure

The survey is completed in the field according to the following procedure:

All sampling traverses are pre-planned, with pre -specified sampling intervals, typically 50m. Field technicians navigate to sample site using handheld GPS units. The soil sampler arrives at each sample site, identifies the most appropriate location to collect the sample and lays out a sheet of plastic (12”x20” ore bag). The soil sample is taken using an Eijkelkamp brand hand auger at a depth of between 20cm and 110cm. Samplers strive to consistently collect C-Horizon sample material. Where necessary (rocky or frozen ground) a prospector's pick ('mattock') is used to obtain the sample.

The soil is laid out on the sheet of plastic in the order it was recovered from the sample hole. Two Standardized photos are taken at each sample site- 1) Sample Location photo: across slope, 5m from sample hole with auger inserted and 2) Sample Profile photo: Close up of sample laid out on ore bag with barcode tag and munsell color chart in photo.

The sampler places the necessary amount of soil (400-500 grams) from the bottom of the hole into a kraft sample bag. The bag labeled with the 3-letter project and tagged with a plastic barcode ID tag containing a unique 7 digit sample identification number is inserted. A plastic barcode ID tag with the sample identification number is attached to a rock or branch in a visible area at the sample site along with a length of pink flagging tape.

A field duplicate sample is taken once for every 25 samples. Both samples are given unique Sample identification number. The data for both samples is recorded and a note is made indicating the duplicate and its corresponding sample identification number. At client’s discretion, standard reference material is inserted into the sample stream at an interval of 1:50.

The GPS location of the sample site is recorded with a Garmin GPSMap 60cx or 76cx GPS device in UTM NAD 83 format, and the waypoint is labeled with the project name and the sample identification number. A weather-proof handheld device equipped with a barcode scanner is used in the field to record the descriptive attributes of the sample collected. This includes: sample identification number (scanned into device at sample site), soil colour, soil horizon, slope, sample depth, ground and tree vegetation and sample quality and any other relevant information. As well, the GPS coordinates are entered into the handheld device as a secondary backup in case of GPS failure.

6.4 Soil Survey Results

Robust soil results were identified in 2016 at the NE anomaly, consisting of strong gold, arsenic, bismuth and tellurium kicks generally coincident with each other over an area measuring 600m north-south and 300-400m east-west (see Figure 16). The anomaly is open predominantly to the north (as well as to the east and west).

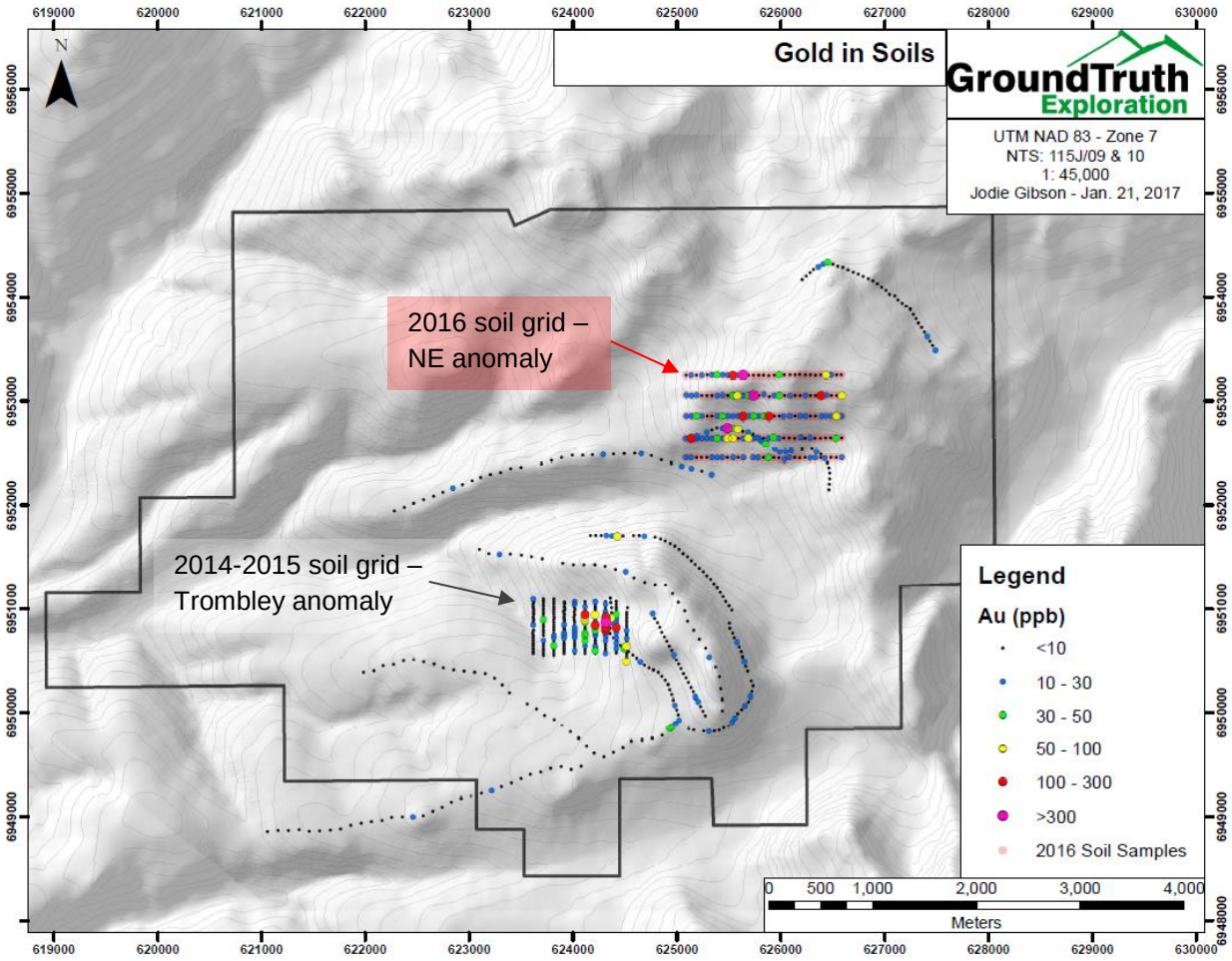

Figure 12: Gold-in-soil grid (2016) at Rude Creek property

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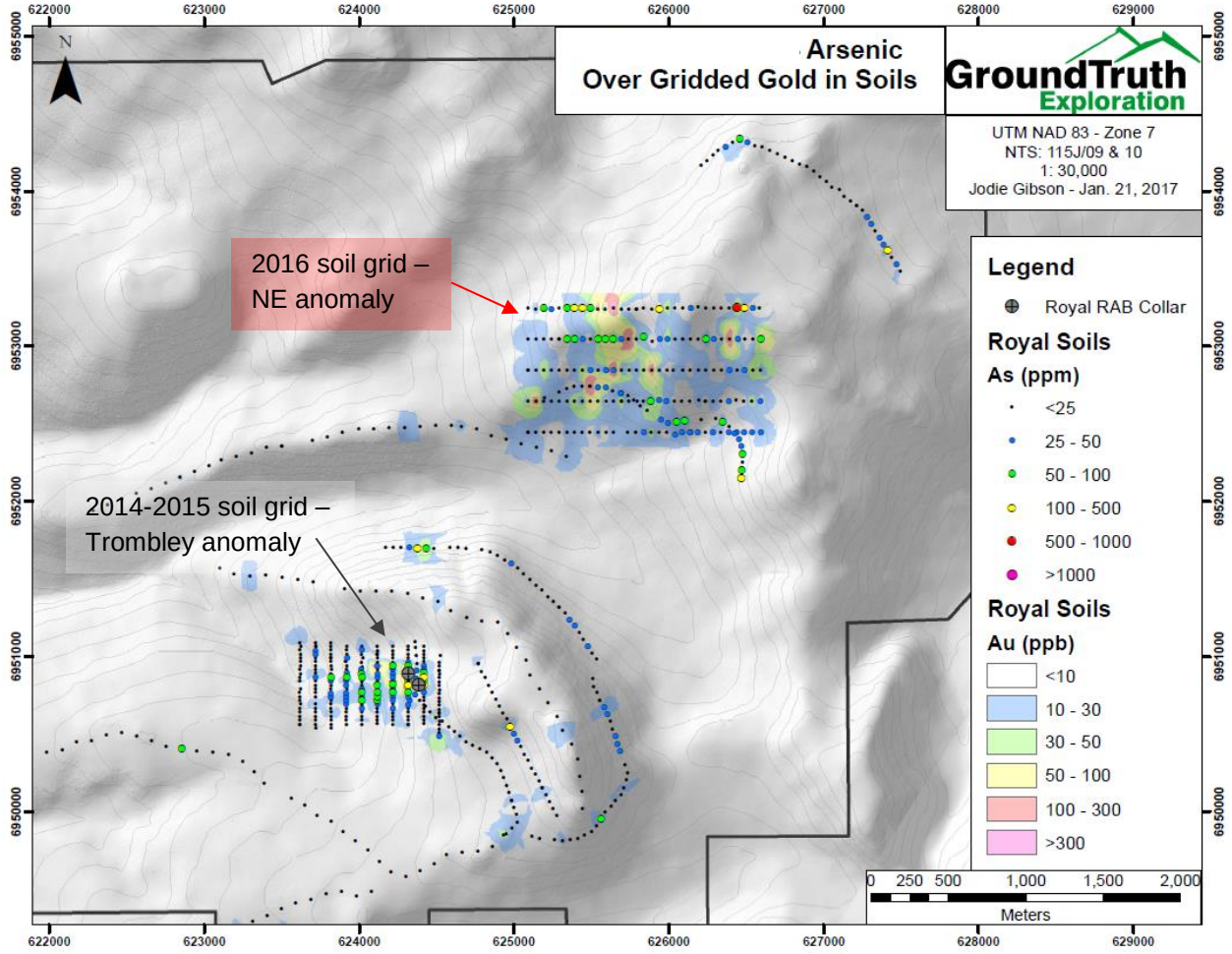

Figure 13: Arsenic-in-soil grid (2016) over gold contours, Rude Creek property

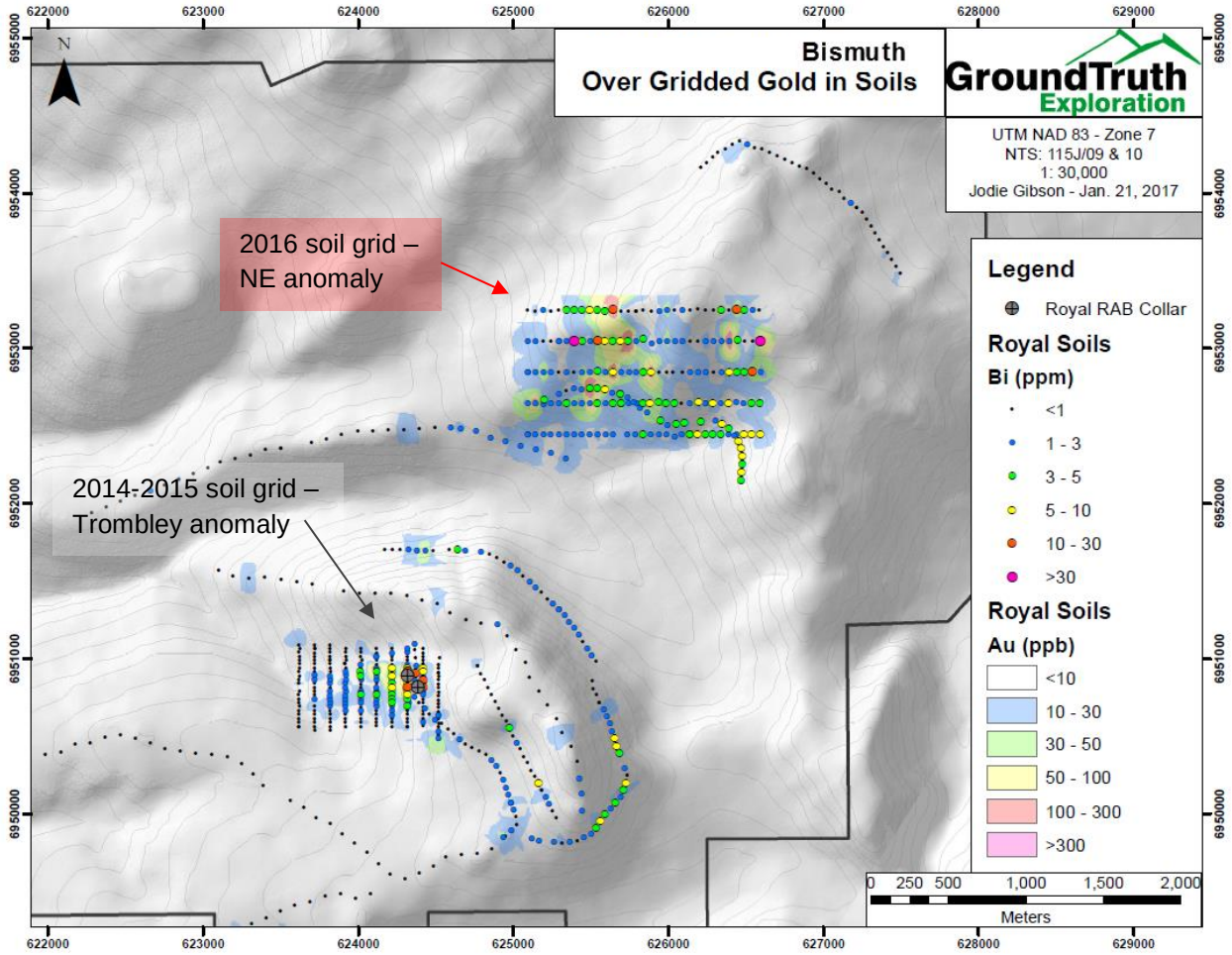

Figure 14: Bismuth-in-soil grid (2016) over gold contours, Rude Creek property

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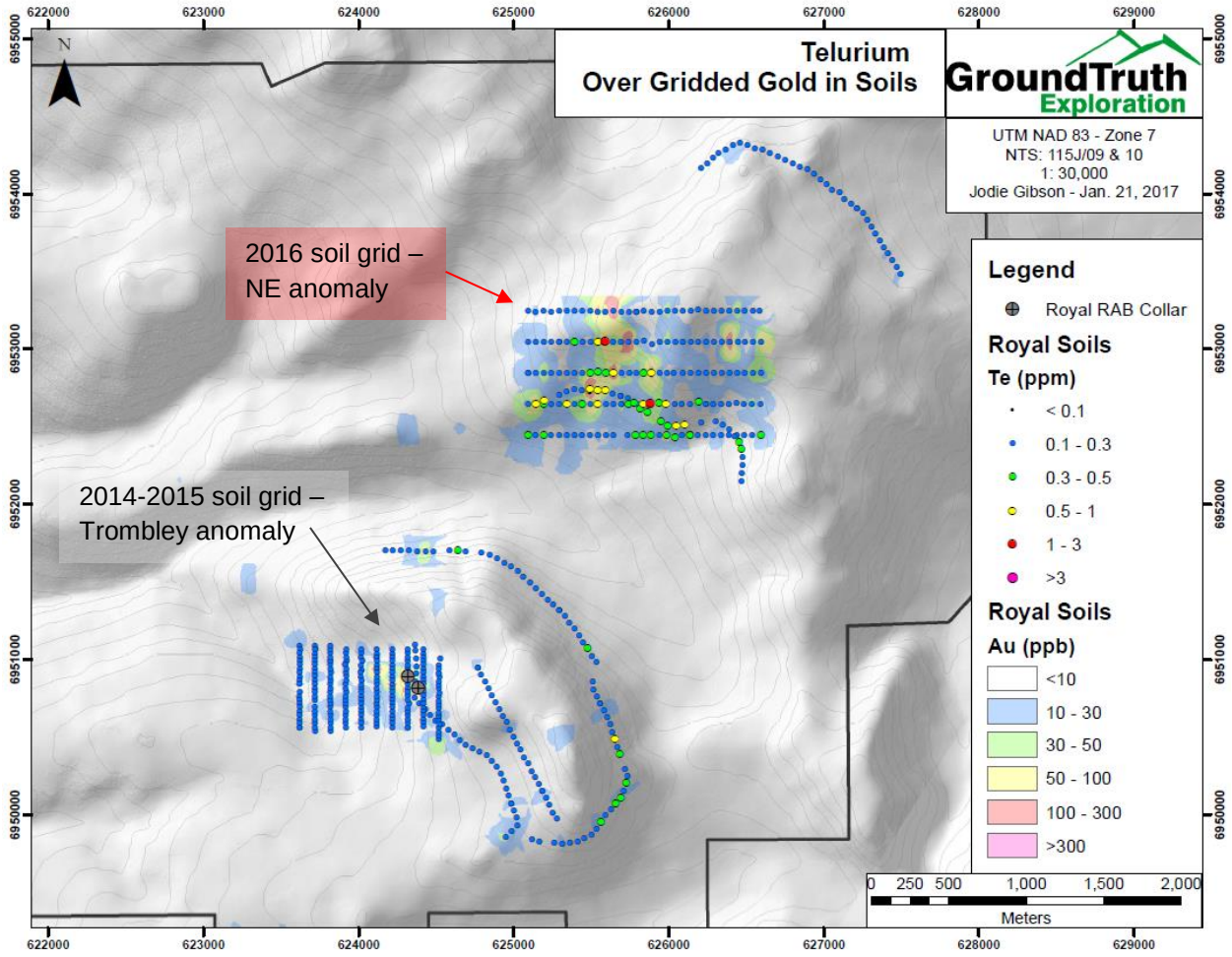

Figure 15: Tellurium-in-soil grid (2016) over gold contours, Rude Creek property

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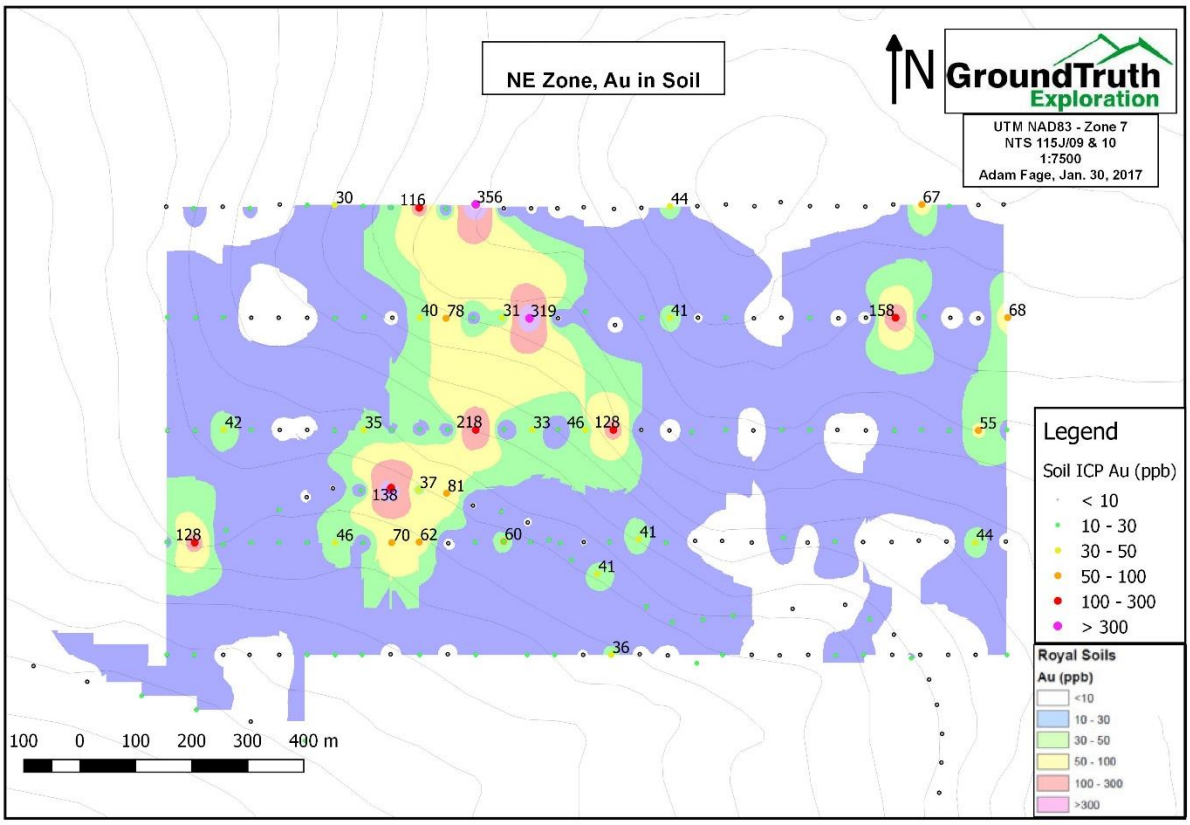

Figure 16: Gold-in-soils (highlighting >30ppb) at NE anomaly

7 Rotary Air Blast Drilling Program

7.1 Introduction

GroundTruth Exploration drilled 1 Rotary air blast holes on August 12 and 13, 2016 (mob on August 11; demob on August 14).

Drill hole ROYRAB16-03 was drilled at an azimuth of 180º, dip of 55 degrees, and a total depth of 290ft (88.3m). The rationale for the hole was to intersect a geophysical feature (IP high/low contact with a coincident resistivity high; see Figures 8 and 9), thought to potentially represent a fault structure. The hole successfully intersected low level gold mineralization consisting **0.20 g/t Au over 25 ft** (7.6m), including **0.75 g/t over 5ft** (1.5m) at 150-155ft depth.

7.2 Personnel

The survey was conducted by the following GroundTruth Exploration personnel:

1. Kory Dentremont	Lead Driller
2. Austin Carmichael	Assistant Driller
3. Braeden Paun-Burnett	RAB Geo Technician

7.3 RAB Drill Overview

The RAB Drill (Rotary Air Blast) is a remotely driven tracked platform with a tilting mast and rotary drill head. The RAB Drill has 1650 sq. inches of track coverage with less than 1.0 psi ground pressure allowing it to be extremely versatile and low impact in the field. The entire unit is powered by a 60hp Turbo charged Kubota diesel engine and is completely air / hydraulically operated. Each drill hole is cased from surface to bedrock and entire sample is collected. Once the casing is seated into bedrock then an open hole hammer is used to penetrate into bedrock. Rock chip sample size is 1/4 – 3/8” and is analyzed and catalogued into chip trays by our onsite Geotech XRF Technician. Each sample location is surveyed by DGPS. Sample location database and plotted XRF results available to client next day.

RAB Setup:

Average production is 100m/day sampled at 1.5m intervals using stationary 300/200 air compressor with layflat hose giving the RAB a 500m drilling radius around Stationary 300/200 air compressor without use of helicopter.

2 sling loads – RAB

2 sling loads – Drill Rods (100m)

1 sling load – Layflat Air Hose

RAB Drill Technical Specifications

- Length – 96”
- Width – 50”
- Height – 80”
- Weight – 3400 lbs
- Pull Back Force – 16,200 lbs
- Onboard Air Compressor – 150cfm @ 175psi
- Working Angle – 45 to 90 degree
- Less than 1.0 psi ground pressure
- 60hp Turbo Charged Kubota
- Hydrostatic Drive
- Wireless Remote Driving Capability
- 2 sling loads with Astar Helicopter

Stationary 300/200 Air Compressor

- Length – 72”
- Width – 32”
- Height – 60”
- Weight – 1750 lbs
- 1 sling load with Astar Helicopter

Tooling

- Diameter of bit – 90mm
- Drill rod length – 1.5m
- 50m capacity in rod basket
- 1 sling load with Astar Helicopter

XRF – Innovex X-5000 bench top XRF (for use at GT Headquarters)

Survey GPS – Ashtech PROMARK 100 GPS

Data Processing – Laptop computer

Satellite Internet – Portable Satellite Internet for nightly data downloads.

7.4 RAB Drill Standard Operating Procedure

The following outlines the standard operating procedures used to collect rock chips and soil samples which have been extracted by the RAB. This describes the methodology behind the RAB Drill Survey based on Yukon Projects conducted during the 2015 field season.

RAB Drill Sampling:

1. Planned drill collar location is brushed out and RAB Drill is setup.

2. Sampling Technician sets up sampling station at drill.
3. Once RAB Drill is in position and setup, the operator drills casing into ground in 1.5m lengths.
4. Sample Bucket (5 gallon) is filled from cyclone, 4 - 7 minutes average frequency.
5. Sample is poured into 8:1 splitter
6. Retention Sample is put into a 5 gallon bucket from splitter and a portion is bagged in 12x20 ore bag, Sample ID, Hole ID and Interval written on Sample ID with marker and sealed with zip tie with external Sample ID attached, 5lbs weight. Excess retention is then discarded.
7. Analytical Sample is bagged in 12x20 ore bag , Sample ID Barcode inserted into bag and sealed with zip tie with external barcode Sample ID attached, 5lbs weight
8. Buckets and Splitter cleaned with pressurized air.
9. Chip Tray chips are collected from Retention bucket using a small plastic container.
10. Chips are then poured into 'dry' wire sieve to discard fine portion, the coarse material in dry strainer is poured into a second 'wet' sieve and washed in a 5 gallon bucket of water.
11. Once chips have been washed with 'wet' sieve, a smaller portion is catalogued in a chip tray with Sample ID and Interval marked.
12. Soil is collected from retention and put into a 40gram bag with sample ID written on bag for XRF analysis back at HQ using Bench-Top XRF in 3 beam (20sec-20sec-20sec) mode directly through sample bag.
13. Analytical Sample Barcode ID is entered into laptop with interval/descriptive info logged.
14. Analytical sample is placed into rice bag with client, Project code, Bag Series and number of samples written in marker on bag, 10 samples per bag then rice bag is sealed with zip tie and then security zip tie and ready for shipment.
15. Receive next sample.

RAB Drill Sampling Shift Schedule (12 hours):

1. Receive and set up sampling tent near new site while drill is being setup.
2. Collect Samples and log while drill is operating.
3. At end of shift all analytical samples are placed into rice bag with client, Project code, Bag Series and number of samples written in marker on bag, 10 samples per bag then rice bag is sealed with security zip tie and ready for shipment.

4. All retention samples are put into rice bags with client, Project code, Bag Series and number of samples written in marker on bag, 10 samples per bag then rice bag is sealed with zip tie and brought back to HQ for storage

RAB Drill Sampling Gear and Sampling Supplies Required at Site:

(not including actual RAB drilling gear).

1. Laptop for data download and logging .
2. 8x10 Wall Tent with poles, tie-down ropes/rebar stakes, Table, 2 chairs and kerosene heater.
3. Kerosene (20l) and Generator gas (20l), Generator spark plug/wrench and 1l 5w30 oil., 20l water.
4. 5 gallon buckets (4 for sample from cyclone, 1 for receiving retention from splitter, 1 filled with water to wash logging samples)
5. 2 metal wire sieves w/handles.
6. Rubber mallet to dislodge material in splitter
7. PPE: Hard Hats, Ear Protection, Eye protection, Masks

Sampling Supplies:

1. 12”x20” Ore bags: Retention Sample (65 required for 12h, 100m of drilling)
2. 12”x20” Ore bags: Analytical Sample (65 required for 12h, 100m drilling + QAQC samples)
3. Barcode Sample ID Tags (65 required for 12h)
4. Standard Zip Ties , 5”: Retention + Analytical Samples (130 required for 12h, 100m drilling)
5. Rice Bag (6 for retention, 6 for analytical required for 12h, 100m of drilling)
6. Security Zip Ties for Rice Bag (6 required for 12h, 100m of drilling)
7. Chip trays (3 – 20 slot chip trays required for 12h, 100m drilling)

7.5 RAB Drill Results

The drill log for ROYRAB16-03 is shown below, the hole intersected granodiorite throughout its entire length. One interval of strong clay alteration (125-135') was encountered. One interval of mineralization characterized by 3% disseminated limonite after pyrite throughout the chips in a sericitized granodiorite was encountered from 150-160' (Interval 150-155' returned an assay of 0.025ppm Au, and interval 155-160' returned an assay of 0.75ppm Au). An interval of sericitized granodiorite with minor disseminated limonite was intersected from 230-270' (no significant Au assays).

ROYRAB 16-03

From (ft)	To (ft)	Interval (ft)	Lithology	Colour	Alteration	Mineralization	Description
0	10	10	OVB	Brown			Boulders of weathered granodiorite
10	70	60	GRDR	Grey-White	Tourmaline		Biotite-hornblende granodiorite with minor tourmaline
70	75	5	GG	White			Granitic unit, more felsic than above
75	125	50	GRDR	Grey-White			Biotite-hornblende granodiorite
125	135	10	GRDR	Grey-White	Clay, sericite		Clay and sericite altered biotite-hornblende granodiorite
135	150	15	GRDR	Grey-White			Biotite-hornblende granodiorite
150	160	10	GRDR	Brown-Grey	Sericite	Limonite (after pyrite), pyrite	Weakly mineralized biotite-hornblende granodiorite, ~2% disseminated limonite after pyrite
160	230	70	GRDR	Grey-White	Tourmaline		Biotite-hornblende granodiorite with minor tourmaline
230	270	40	GRDR	White-Brown	sericite, minor clay	Limonite	Sericite altered biotite-hornblende granodiorite, bleached white, ~1% disseminated limonite
270	290	20	GRDR	Grey-White			Biotite-hornblende granodiorite

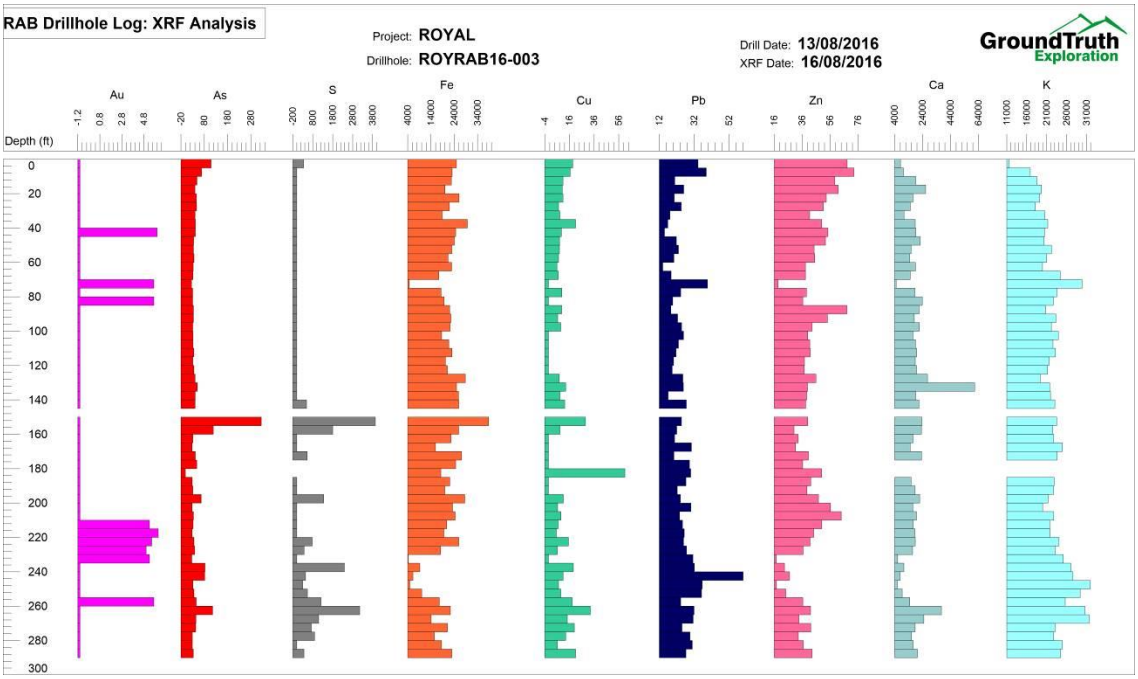

Figure 17: Geological and XRF logs of RAB hole ROYRAB16-003

XRF analysis returned several zones with elevated gold numbers (especially around 210 ft to 240 ft; see Figure 15), however, these did not correlate well with assays. The interval with the highest As XRF measurement correlates with the most significant Au assay in the drillhole.

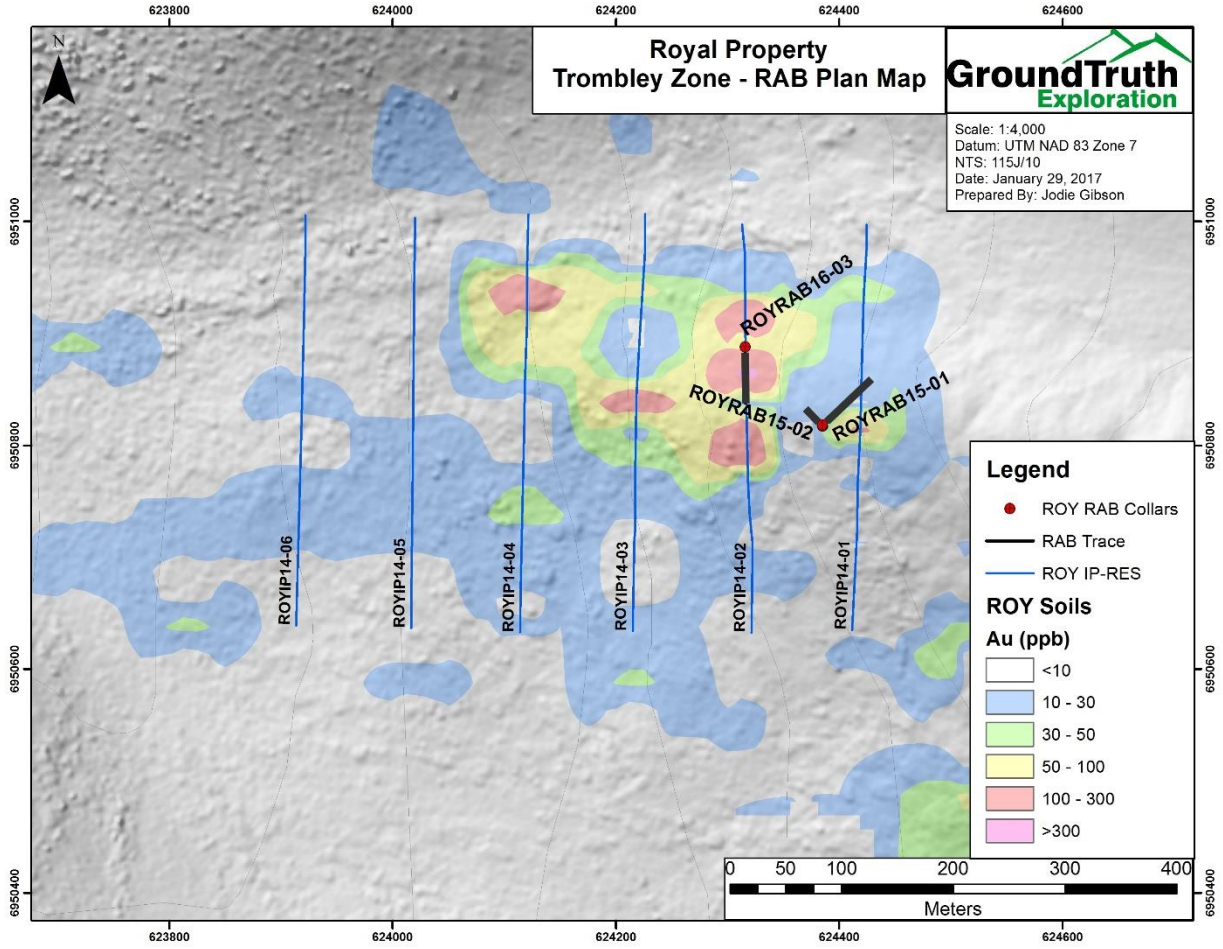

Figure 18: RAB drilling (2015 and 2016) plan view (with geophysics lines and gold-in-soils contours)

Box 70, DAWSON, YT
Y0B 1G0

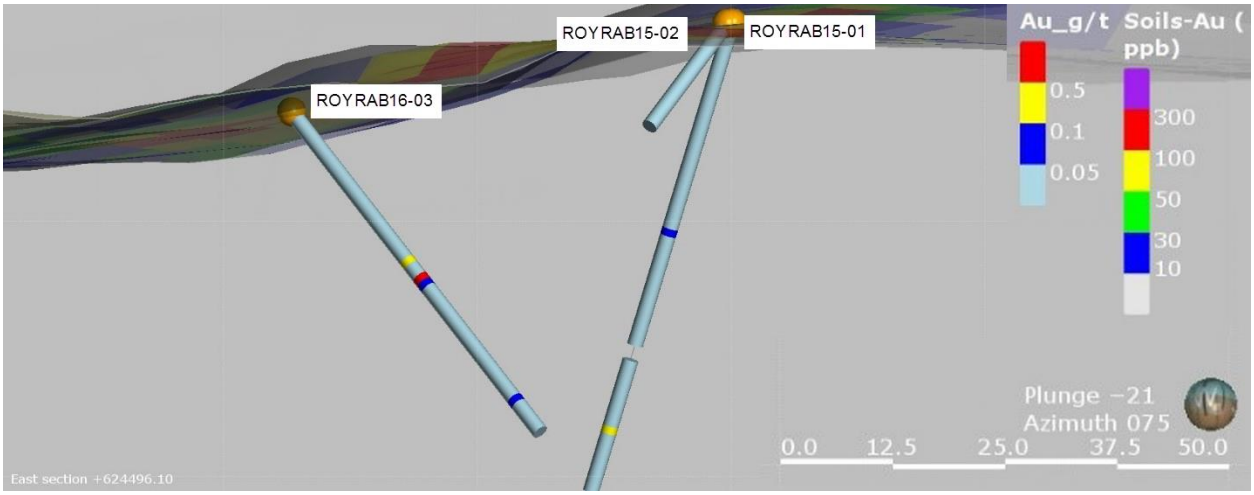

Figure 19: Gold in RAB holes (cross-section) at Trombley anomaly

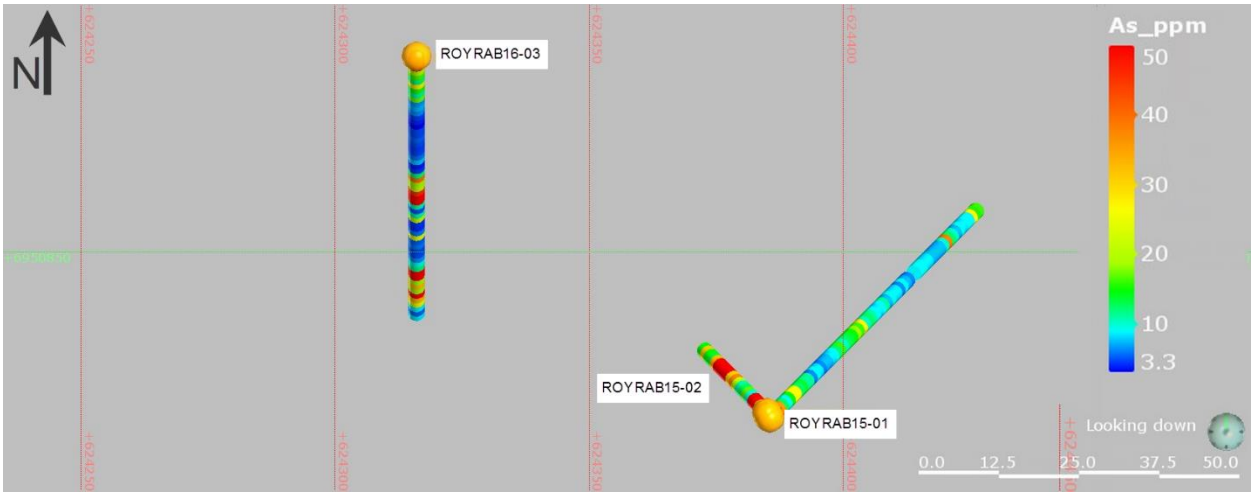

Figure 20: Arsenic in RAB holes (plan view) at Trombley anomaly

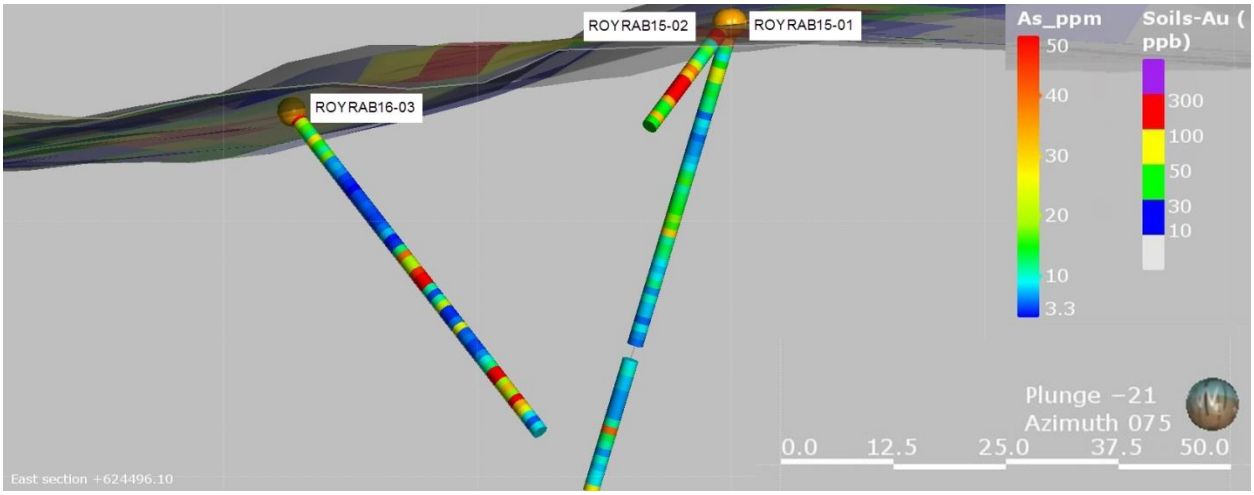

Figure 21: Arsenic in RAB holes (cross-section) at Trombley anomaly

8 XCAM Survey

8.1 Introduction

The XCam survey lines and spatial resolution are approved by client prior to survey. Standard spatial resolution is set between 5 and 30cm/pixel. Flight time is dependent upon the size of the target area: ranging from 30 to 300 minutes and 50 to 300 square kilometers. The operator plans accordingly with available time on ground, the nearest landing strip, and local elevation, to determine the number of flights possible per day.

8.2 Personnel and Equipment

The XCam survey is typically conducted by one trained pilot and one operator. The lead operator is responsible for coordinating efficient operation of survey and ensuring optimal data quality, the pilot is responsible for ensuring steady level flight.

The following equipment is used for the completion of the survey:

XCam Pod:	XCam Pod with external GPS and two internal cameras
	Mount to attach pod to wing strut
Interface:	Microsoft Surface Pro 3
Power Generation:	100watt inverter (for battery and tablet charging)
	2 external batteries for the pod

GPS units:	2x Promark3 GPS receivers (if GCPs are collected)
Processing:	Computer with adequate RAM
Software:	WaldoAir mission planning
	Pix4D Mapper Pro for image OrthorectificationXCAM

8.3 Operating Procedure

The survey is completed in the field according to the following procedure:

- Survey is planned using WaldoAir software prior to departing for field.
- Spatial resolution, footprint, number of planned flights and launch location is determined.
- Operator arrives at airstrip and sets up XCam pod.
- Prior to launch, operator runs simulation to double check camera, camera settings, and field of view for pod.
- Pilot flies aircraft and flies survey as planned with number of required flights.
- Data is downloaded from tablet after each flight and inspected for quality.
- After survey, all imagery and drone data files are Orthorectified using Pix4D Mapper Pro software package.

8.4 Data Processing

The collected data is reviewed and downloaded in the air mid-flight and checked for integrity. This allows any low quality imagery to be identified and resurveyed while airborne. The imagery data is processed every evening by the lead operator in the field using Pix4D Mapper Pro software provided by Pix4D. The initial orthorectified image product is generated by an automated process. This image is then cleaned up manually within the Pix4D software by visually checking for low quality portions of the image and selecting another overlapping image for that location. The final cleaned image and DEM product is the result of this manual QC process. The final Image and DEM are georeferenced to NAD83 UTM projection. A final QC report is generated automatically with the final cleaned product.

Standard data output:

Imagery:	Georeferenced Orthoimage (.ecw format)
Digital Elevation Model:	Gridded Elevation model (.grd format)
Automated Quality Report:	Report with survey statistics (.pdf format)

8.5 Survey Results

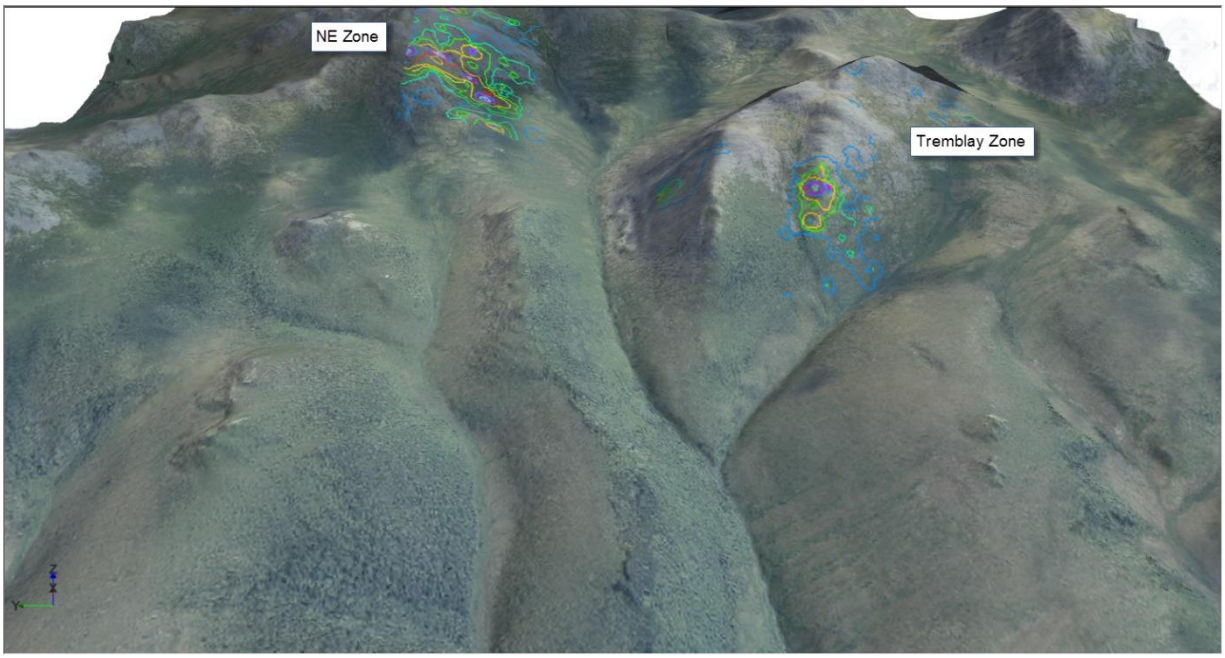

Figure 22: XCAM survey (looking east) showing Trombley and NE soil anomalies

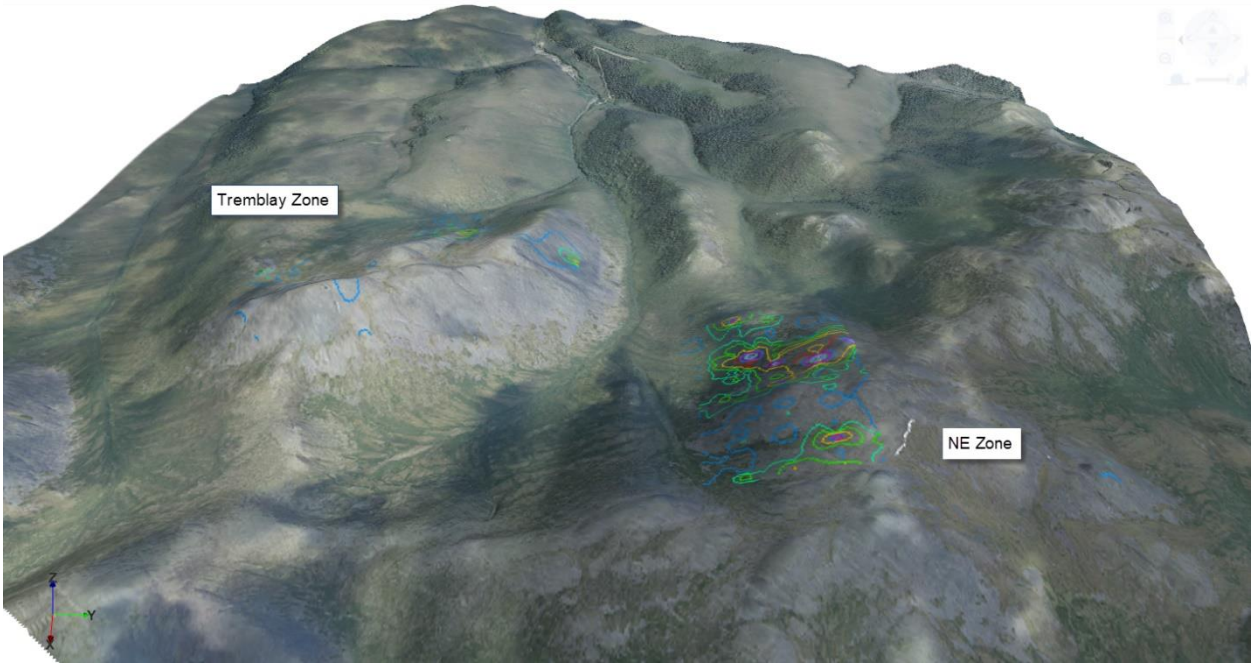

Figure 23: XCAM survey (looking west) showing Trombley and NE soil anomalies

9 Discussion and Interpretation

9.1 Soil Sample Survey

The NE soil grid was collected in order to cover over an area identified in 2015 ridge and spur soil sampling that intersected 2 stations in a row of >100 ppb Au in soil (366, 138 ppb Au). Station spacing was 200x50m.

This grid sampling was successful in delineating a 600m long, 300-400m wide corridor of highly anomalous Au in soil samples with multiple potential orientation ranging from a NE to NW trend, open to the North (8 samples >100ppb Au). Additionally, in the northeast corner of the NE grid, 4 samples > 50ppb Au in soil were collected; this anomaly in the corner of the grid is open to the East and North.

Metal zonation is observed in association with this gold in soil anomaly. Anomalous arsenic values are found at the Western edge of the anomaly, anomalous bismuth occurs in association with gold and also along trend to the South. Anomalous lead occurs adjacent to the higher tenor gold in soil samples. Anomalous molybdenum and tellerium occur along the Southern edge of the anomaly.

The NE anomaly is roughly double the size of the Trombley anomaly and seems to exhibit higher correlation with pathfinder elements (i.e. arsenic, bismuth, tellurium). The NE anomaly also hosts stronger bismuth and tellurium numbers, compared to the Trombley anomaly.

9.2 RAB Drilling

Drill hole ROYRAB16-03 was drilled at an azimuth of 180º, dip of 55 degrees, and a total depth of 290ft (88.3m). It is the third hole ever drilled on the property and was oriented to intersect a coincident geochem / geophysics (IP high/low contact and coincident resistivity high) anomaly (see Figures 8 and 9). A second hole was planned to be drilled towards the West or North (depending on results from the ROYRAB16-03), however, logistical issues prevented the execution of this plan.

Hole ROYRAB16-03 returned **0.20ppm Au over 25 ft** (7.6m), including **0.75ppm over 5ft** (1.5m) at 150-155ft depth. This higher grade interval represents a 6-fold increase in grade relative to the best intercept drilled in 2015 and exhibits an intensification of grade (vectoring) towards the West. The grade here is also not dissimilar from the types of grades encountered at Coffee Creek. Highest gold grades were coincident with sericite altered, pyrite and limonite bearing granodiorite (see Figure 17).

9.3 XCAM Survey

This survey has provided a high resolution ortho-image for planning future surveys and infrastructure, acting as a base-line survey of environmental impact assessment, providing a blueprint for mapping results and aiding in structural and surficial interpretations. The survey also supplies a digital elevation model essential for levelling the altitude of the different surveys to ensure accurate interpretations and can give valuable insight into slope and drainage assessment.

10 Recommendations

The NE zone should receive detailed geological mapping and prospecting to further refine the deposit model.

The NE grid should be infilled in order to better constrain the orientation of high tenor gold in soil anomalies. The NE grid should also be extended to the North and East where anomalies extend off-grid.

Once infill grid sampling is completed and drill targets are identified, an IP geophysical survey is recommended to constrain dip of mineralized structures which would then be followed by a small RAB or DDH drilling program.

Due to logistical issues encountered in 2016, the coincident IP chargeability high / gold-in-soil anomalies at Trombley remain untested. A RAB and/or DDH drill follow up program is recommended.

11 Costs

Rude Creek project, Yukon (C$)					
	No.	Units	Men	Rate	Sum
Phase 1 - RAB drilling					
Daily living expense (5 ppl)	4	days	3	85	1,020.00
Wages					
RAB operator (1)	2	days	1	770	1,540.00
RAB assistant driller (1)	2	days	1	605	1,210.00
RAB sampler (1)	2	days	1	495	990.00
Mob-demob					
RAB operator (1)	1	days	1	577.5	577.50
RAB assistant driller (1)	1	days	1	453.75	453.75
RAB sampler (1)	1	days	1	371.25	371.25
Program prep					1,500.00
Travel					
Helicopter (A-star)	9.2	hrs		1921	17,676.75
Fixed wing					29,980.52
RAB drilling					
Equipment / consumables / tax					1,697.30
Assays					
Drill chip samples	64	samples		40.71	2,605.12
Phase 2 - sub-total					59,622.19
Tax					2,981.12
Phase 2 - total					**62,603.31**
Phase 2 - grid and recce soils					
Daily living expense (5 ppl)	1	days	5	85	425.00
Wages					
Foreman (1)	1	days	1	495	495.00
Field technicians (4)	1	days	4	385	1,540.00
Travel					
Helicopter (Astar)	1.20	hrs		1943	2,331.00
Fixed wing	-				300.00
Consumables / equip / services / tax					1,005.00
Soil assays					
Grid lines (3 x 575m long, 2men)	5	lines			
Samples per line (50m stations)	30	sample/line			
Soil samples (no.) assay	158	samples		12.99	2,052.42
Shipping					150.00
Phase 2 - sub-total					**8,298.42**
Tax					**414.92**
Phase 2 - total					**8,713.34**
Grand Total					**71,316.65**

Combined	Days	Men	Rate	C$
Daily living expense (2 ppl)	5	3-5	85	1,445.00
Wages				
Foreman/IP operator	4	1	653	2,612.50
Labourers	4	3	505	6,065.00
				8,677.50
Travel				
Helicopter (Astar)	10.4		1,924	20,007.75
Fixed wing				30,280.52
Truck/shipping				150.00
				50,438.27
Equipment / consumables				2,702.30
Assays	222		20.98	4,657.54
				7,359.84
sub-total				67,920.61
Tax				3,396.04
Total				**71,316.65**

12 References

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Gordey, S.P. and Makepeace, A.J. (comp.) 2003. Yukon digital geology, version 2.0; Geological Survey of Canada Open File 1749 and Yukon Geological Survey Open File 2003-9(D)

Jaworski, Bart J. and Meyer, B., 2001: EMR assessment report 094062; Geological and Geochemical report on the Rude Creek Intrusion Related Gold Target

13 Qualification

I, Adam Fage have continuously been involved in Mineral Exploration since 2004. I graduated from Dalhousie University with an Honours Bachelor of Science (Earth Science) in 2008. I graduated from Lakehead University with a Master's of Science (Geology) in 2011. I am a member, in good standing, of the Association of Professional Geoscientists of Ontario, Registration number 2256.

Dated this 18th day of January, 2017.

Respectfully submitted

Adam Fage

Appendix A: Claims List

Grant Number	Name	OWNER	Operator
YC60328	ROYAL 1	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	0890763 BC Ltd.
YC60329	ROYAL 2	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	0890763 BC Ltd.
YC60330	ROYAL 3	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	0890763 BC Ltd.
YC60331	ROYAL 4	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	0890763 BC Ltd.
YC60332	ROYAL 5	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	0890763 BC Ltd.
YC60333	ROYAL 6	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	0890763 BC Ltd.
YC60334	ROYAL 7	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	0890763 BC Ltd.
YC60335	ROYAL 8	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	0890763 BC Ltd.
YC60336	ROYAL 9	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	0890763 BC Ltd.
YC60337	ROYAL 10	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	0890763 BC Ltd.
YC60338	ROYAL 11	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	0890763 BC Ltd.
YC60339	ROYAL 12	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	0890763 BC Ltd.
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YD109440	ANN 120	0890763 BC Ltd. - 100%	0890763 BC Ltd.
YD109441	ANN 121	0890763 BC Ltd. - 100%	0890763 BC Ltd.
YD109442	ANN 122	0890763 BC Ltd. - 100%	0890763 BC Ltd.
YD109443	ANN 123	0890763 BC Ltd. - 100%	0890763 BC Ltd.
YD109444	ANN 124	0890763 BC Ltd. - 100%	0890763 BC Ltd.
YD109445	ANN 125	0890763 BC Ltd. - 100%	0890763 BC Ltd.
YD109446	ANN 126	0890763 BC Ltd. - 100%	0890763 BC Ltd.
YD109447	ANN 127	0890763 BC Ltd. - 100%	0890763 BC Ltd.
YD109448	ANN 128	0890763 BC Ltd. - 100%	0890763 BC Ltd.
YD109449	ANN 129	0890763 BC Ltd. - 100%	0890763 BC Ltd.
YD109450	ANN 130	0890763 BC Ltd. - 100%	0890763 BC Ltd.
YD109451	ANN 131	0890763 BC Ltd. - 100%	0890763 BC Ltd.
YD109452	ANN 132	0890763 BC Ltd. - 100%	0890763 BC Ltd.
YD109453	ANN 133	0890763 BC Ltd. - 100%	0890763 BC Ltd.

YD109454	ANN 134	0890763 BC Ltd. - 100%	0890763 BC Ltd.
YD109455	ANN 135	0890763 BC Ltd. - 100%	0890763 BC Ltd.
YD109456	ANN 136	0890763 BC Ltd. - 100%	0890763 BC Ltd.
YD109457	ANN 137	0890763 BC Ltd. - 100%	0890763 BC Ltd.
YD109458	ANN 138	0890763 BC Ltd. - 100%	0890763 BC Ltd.
YD109459	ANN 139	0890763 BC Ltd. - 100%	0890763 BC Ltd.
YD109460	ANN 140	0890763 BC Ltd. - 100%	0890763 BC Ltd.
YD109507	ANN 187	0890763 BC Ltd. - 100%	0890763 BC Ltd.
YD109508	ANN 188	0890763 BC Ltd. - 100%	0890763 BC Ltd.
YD109509	ANN 189	0890763 BC Ltd. - 100%	0890763 BC Ltd.
YD109510	ANN 190	0890763 BC Ltd. - 100%	0890763 BC Ltd.
YD109512	ANN 192	0890763 BC Ltd. - 100%	0890763 BC Ltd.
YD18940	POKER 40	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18941	POKER 41	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18942	POKER 42	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18943	POKER 43	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18944	POKER 44	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18945	POKER 45	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18946	POKER 46	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18947	POKER 47	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18948	POKER 48	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18949	POKER 49	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18950	POKER 50	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18951	POKER 51	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18952	POKER 52	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18953	POKER 53	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18954	POKER 54	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18955	POKER 55	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18956	POKER 56	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18965	POKER 65	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18966	POKER 66	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18967	POKER 67	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18968	POKER 68	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18970	POKER 70	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18971	POKER 71	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18972	POKER 72	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18973	POKER 73	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18974	POKER 74	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18975	POKER 75	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18976	POKER 76	Farrell J. Andersen - 100%	0890763 BC Ltd.

YD18977	POKER 77	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18979	POKER 79	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18980	POKER 80	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18981	POKER 81	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18982	POKER 82	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18983	POKER 83	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18984	POKER 84	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18985	POKER 85	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18986	POKER 86	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18987	POKER 87	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18988	POKER 88	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD18989	POKER 89	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19001	POKER 1	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19002	POKER 2	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19003	POKER 3	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19004	POKER 4	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19005	POKER 5	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19006	POKER 6	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19007	POKER 7	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19008	POKER 8	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19009	POKER 9	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19010	POKER 10	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19011	POKER 11	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19012	POKER 12	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19013	POKER 13	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19014	POKER 14	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19015	POKER 15	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19016	POKER 16	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19021	POKER 21	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19022	POKER 22	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19023	POKER 23	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19024	POKER 24	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19025	POKER 25	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19026	POKER 26	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19027	POKER 27	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19028	POKER 28	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19029	POKER 29	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19030	POKER 30	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19031	POKER 31	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19032	POKER 32	Farrell J. Andersen - 100%	0890763 BC Ltd.

YD19033	POKER 33	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19034	POKER 34	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19035	POKER 35	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19036	POKER 36	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19037	POKER 37	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19038	POKER 38	Farrell J. Andersen - 100%	0890763 BC Ltd.
YD19039	POKER 39	Farrell J. Andersen - 100%	0890763 BC Ltd.

Appendix B: Soil Samples Assay Certificate

sample_id	utm_zone	utm_eastin	utm_northi	elevation_	longitude	latitude	sample_dat	technician	colour	texture
1458509	07N	626592	6952445	1456	-138.5272945	62.68072633	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Gravel
1458510	07N	626536	6952445	1448	-138.5283871	62.68074559	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Gravel
1458511	07N	626487	6952445	1427	-138.5293432	62.68076244	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Silt
1458512	07N	626437	6952445	1413	-138.5303187	62.68077962	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Gravel
1458513	07N	626387	6952445	1396	-138.5312943	62.6807968	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Silt
1458514	07N	626336	6952445	1378	-138.5322894	62.68081432	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Gravel
1458515	07N	626286	6952444	1361	-138.5332657	62.68082251	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Silt
1458516	07N	626237	6952445	1353	-138.534221	62.6808483	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Sand
1458517	07N	626186	6952444	1344	-138.5352168	62.68085682	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Gravel
1458518	07N	626136	6952445	1342	-138.5361917	62.68088293	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Silt
1458518	07N	626136	6952445	1342	-138.5361917	62.68088293	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Silt
1458519	07N	626084	6952445	1340	-138.5372063	62.68090076	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Silt
1458520	07N	626038	6952430	1335	-138.538115	62.68078201	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Gravel
1458521	07N	625986	6952444	1325	-138.5391191	62.68092536	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Silt
1458522	07N	625936	6952446	1312	-138.5400932	62.68096041	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Silt
1458523	07N	625885	6952445	1302	-138.541089	62.68096889	9/21/2016	Mark Severinsen MS01	Reddish Yellow	Sand
1457501	07N	625835	6952445	1293	-138.5420646	62.680986	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Silt
1457503	07N	625735	6952445	1282	-138.5440158	62.68102018	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Silt
1457504	07N	625643	6952445	1268	-138.5458108	62.68105161	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Silt
1457505	07N	625593	6952446	1263	-138.5467857	62.68107765	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Silt
1457506	07N	625543	6952445	1255	-138.547762	62.68108575	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Silt
1457507	07N	625491	6952446	1252	-138.5487759	62.68111245	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Silt
1457508	07N	625440	6952445	1242	-138.5497717	62.68112088	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Silt
1457509	07N	625392	6952445	1239	-138.5507083	62.68113724	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Gravel
1457510	07N	625342	6952445	1236	-138.5516839	62.68115427	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Silt
1457511	07N	625292	6952445	1233	-138.5526595	62.6811713	9/21/2016	Mark Severinsen MS01	Reddish Yellow	Gravel
1457512	07N	625239	6952445	1222	-138.5536936	62.68118935	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Gravel
1457513	07N	625192	6952445	1220	-138.5546107	62.68120534	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Gravel
1457514	07N	625140	6952445	1216	-138.5556253	62.68122303	9/21/2016	Mark Severinsen MS01	Reddish Yellow	Sand
1458524	07N	625091	6952445	1209	-138.5565814	62.68123969	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Silt
1458525	07N	625091	6952445	1219	-138.5565814	62.68123969	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Silt
1458131	07N	626590	6952647	1491	-138.5271823	62.68253842	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Silt
1458132	07N	626535	6952645	1513	-138.528257	62.6825394	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Clay
1458133	07N	626484	6952647	1469	-138.5292506	62.68257487	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Sand
1458134	07N	626435	6952649	1466	-138.5302146	62.6826063	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Sand
1458135	07N	626386	6952646	1455	-138.5311636	62.68259959	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Sand
1458136	07N	626335	6952646	1450	-138.5321587	62.6826171	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Sand
1458137	07N	626285	6952647	1452	-138.5331336	62.68264323	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Sand
1458138	07N	626236	6952645	1460	-138.5340912	62.68264211	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Sand

sample_id	moisture	site_slope	depth	horizon	site_veget	ground_cov	quality	note1	note2	mo_ppm
1458509	Damp	Pronounced Slope	110	C	Dwarf Birch	Reindeer Moss	Good	Coarse	Rocky Sample	2.7
1458510	Wet	Steep	110	C	Dwarf Birch	Reindeer Moss	Good	Coarse	Mud	2.8
1458511	Damp	Pronounced Slope	50	B	Dwarf Birch	Grass Cover	Good	Coarse	Sandy	2.2
1458512	Damp	Steep	60	C	Dwarf Birch	Grass Cover	Good	Coarse	Rocky Sample	1.7
1458513	Damp	Steep	60	B	Dwarf Birch	Grass Cover	Good	Fine	Mud	2.1
1458514	Dry	Pronounced Slope	50	C	Dwarf Birch	Grass Cover	Good	Coarse	Rocky Sample	2.6
1458515	Damp	Steep	40	B	Dwarf Birch	Grass Cover	Good	Fine		3.6
1458516	Dry	Steep	30	C	Dwarf Birch	Sphagnum Moss < 30cm	Good	Coarse		2
1458517	Dry	Steep	40	C	White Spruce	Bare Soil	Good	Sandy	Rocky Sample	3.6
1458518	Dry	Steep	50	C	Dwarf Birch	Reindeer Moss	Good	Coarse	Rocky Sample	3.4
1458518	Dry	Steep	50	C	Dwarf Birch	Reindeer Moss	Good	Coarse	Rocky Sample	3.4
1458519	Damp	Steep	50	C	Dwarf Birch	Thin Moss Cover	Good	Coarse	Sandy	2.8
1458520	Damp	Steep	30	B	Dwarf Birch	Leaf Cover	Good	Coarse	Rocky Sample	5.8
1458521	Damp	Steep	30	B	Dwarf Birch	Reindeer Moss	Good	Coarse	Rocky Sample	3.2
1458522	Dry	Steep	50	B	Dwarf Birch	Rock Cover	Good	Fine		2
1458523	Dry	Steep	40	C	Dwarf Birch	Thin Moss Cover	Good	Coarse		2.2
1457501	Dry	Pronounced Slope	10	B	No Tree Cover	Rock Cover	Good	Fine		4.6
1457503	Damp	Pronounced Slope	50	C	Dwarf Birch	Thin Moss Cover	Good	Coarse	Sandy	3.6
1457504	Dry	Pronounced Slope	40	B	Dwarf Birch	Thin Moss Cover	Poor	Fine	Clay	5.4
1457505	Damp	Pronounced Slope	50	B	Dwarf Birch	Reindeer Moss	Good	Fine		4.8
1457506	Damp	Pronounced Slope	40	B	Dwarf Birch	Thin Moss Cover	Poor	Fine	Clay	3.8
1457507	Damp	Pronounced Slope	60	B	Dwarf Birch	Sphagnum Moss < 30cm	Good	Sandy	Coarse	1.8
1457508	Damp	Pronounced Slope	50	B	Alders	Sphagnum Moss < 30cm	Good	Coarse	Rusty Rock Chip	2.4
1457509	Damp	Pronounced Slope	40	C	Dwarf Birch	Reindeer Moss	Good	Coarse	Rocky Sample	2.8
1457510	Dry	Pronounced Slope	60	C	Dwarf Birch	Thin Moss Cover	Good	Coarse	Sandy	2.7
1457511	Dry	Pronounced Slope	40	C	Dwarf Birch	Reindeer Moss	Good	Coarse	Rocky Sample	4.4
1457512	Dry	Pronounced Slope	50	C	Dwarf Birch	Reindeer Moss	Good	Coarse	Sandy	2.2
1457513	Dry	Steep	40	C	Dwarf Birch	Thin Moss Cover	Good	Coarse	Sandy	3.9
1457514	Damp	Steep	40	C	Dwarf Birch	Reindeer Moss	Good	Coarse	Rocky Sample	4.2
1458524	Dry	Steep	40	C	Dwarf Birch	Reindeer Moss	Good	Sandy	Rocky Sample	3.5
1458525	Dry	Steep	40	C	Dwarf Birch	Reindeer Moss	Good	Sandy	Rocky Sample	13.9
1458131	Dry	Subtle Slope	40	B	No Tree Cover	Grass Cover	Good			4.8
1458132	Dry	Subtle Slope	40	C	No Tree Cover	Grass Cover	Good			3.3
1458133	Dry	Subtle Slope	30	C	No Tree Cover	Reindeer Moss	Good			1
1458134	Dry	Subtle Slope	30	C	No Tree Cover	Reindeer Moss	Good	Rocky Sample		1.4
1458135	Dry	Subtle Slope	50	C	No Tree Cover	Reindeer Moss	Good	Rocky Sample		2.4
1458136	Dry	Subtle Slope	40	C	No Tree Cover	Reindeer Moss	Good			2
1458137	Dry	Steep	40	C	No Tree Cover	Reindeer Moss	Good	Rocky Sample		3.4
1458138	Dry	Steep	30	C	No Tree Cover	Rock Cover	Good	Rocky Terrain		1.1

sample_id	cu_ppm	pb_ppm	zn_ppm	ag_ppm	ni_ppm	co_ppm	mn_ppm	fe_pct	as_ppm	u_ppm	au_ppb	th_ppm	sr_ppm	cd_ppm
1458509	70	25.9	71	0.4	19	14.6	716	3.97	43.1	7.2	21.8	8.4	51	0.3
1458510	44.3	19	68	0.4	17.3	13.6	472	3.41	26.2	7.3	5.1	9.6	45	0.2
1458511	32.4	16.4	73	0.3	15.8	11.8	572	3.38	29.5	6	4.9	5.5	59	0.2
1458512	25.6	20.6	74	0.2	16.1	11	577	3.05	44	3.5	8.2	3.3	48	0.3
1458513	25.7	22.9	78	0.3	18.5	12.2	667	3.08	35.4	3.7	5.9	2.2	42	0.4
1458514	26.1	29.7	77	0.2	18.2	12.5	599	3.26	24	3.3	12.7	2.9	40	0.4
1458515	44.1	33.4	93	0.6	18.2	13.1	705	3.48	36.6	5	13.7	3.3	38	0.4
1458516	28.2	17.9	60	0.2	14.8	11.1	464	2.94	22.2	4	5.6	4.7	32	0.4
1458517	70.7	52.7	62	0.3	23.7	19.7	666	4.07	33.6	11	5.3	9	60	0.3
1458518	51.1	18.7	57	0.3	26.5	20.5	563	4.13	27	5.7	8.1	9.9	32	0.3
1458518	50.5	18.1	57	0.2	26	20.2	557	4.03	26.4	5.5	9.7	9.6	31	0.3
1458519	35.8	10.6	53	0.05	27.6	14.7	378	3.8	25.1	3.6	11.4	8	31	0.3
1458520	31.9	15.4	51	0.2	18.4	13.1	447	4.07	28.9	2.5	17.4	5.7	28	0.2
1458521	23.6	12	52	0.1	16.2	9.3	326	3.52	19.7	1.8	4.3	5.3	29	0.3
1458522	21.8	10	44	0.2	17	7.8	214	3.15	11.8	1.1	6.5	2.6	24	0.2
1458523	35.5	13.3	60	0.1	26.4	16.4	445	3.92	21	3.5	36.4	9.3	32	0.4
1457501	39.9	21.9	60	0.4	18.3	18.5	808	4.23	30.1	6.8	8.6	6	107	0.3
1457503	36.6	15.9	55	0.3	19.2	13.5	477	3.25	14.4	6.7	20.9	8.1	67	0.3
1457504	30.9	17.5	53	0.5	17.7	16.8	926	3.34	14	9.8	13	3	55	0.2
1457505	32.4	18.4	54	0.4	19.3	9.8	348	3.04	17.1	9.5	7.9	3.1	47	0.2
1457506	26.7	18.3	58	0.3	20.8	13.2	509	3.58	18.2	4.5	11.5	5.1	37	0.6
1457507	24.4	14.1	62	0.2	21	10.6	473	2.94	14.9	2.9	7.3	3.8	35	0.2
1457508	35.9	15.3	59	0.2	17.9	9.9	373	3.26	13.1	5	13.2	4.7	58	0.2
1457509	31.3	14.6	59	0.2	16.5	11.2	457	3.21	11.1	5.7	21.3	5	67	0.2
1457510	35.5	17.4	59	0.5	15.3	15.1	484	3.09	13.5	11.8	13.4	6.9	82	0.3
1457511	33.4	11.5	52	0.2	14.5	13.3	476	3.23	10.3	7.2	4.4	7.3	66	0.2
1457512	35.9	12.4	57	0.2	19.5	11.8	437	3.61	13.2	5.4	6.3	6	48	0.4
1457513	37	14	52	0.3	17.5	12.2	395	3.73	10.2	9.9	9	7.7	81	0.2
1457514	32.2	13	56	0.2	16	9.3	345	3.05	10.1	4	11	4.4	63	0.3
1458524	32.3	11.1	58	0.2	23.3	16.1	433	3.5	11.1	5.6	8.7	6	34	0.2
1458525	34.2	10.8	54	0.3	21.9	17.5	458	3.41	16.1	6.1	13.3	6.8	47	0.2
1458131	35.3	32.4	89	0.4	24.7	18.8	1048	3.93	42.4	4.7	7.3	2	51	0.3
1458132	28.8	34.8	75	0.6	21.9	12.7	588	3.45	20.6	3.8	44.6	4.8	42	0.2
1458133	30.8	15.4	58	0.05	29.3	12.7	464	3.33	14.9	1	2.6	4.2	19	0.4
1458134	25.2	17.8	66	0.1	24.2	10.5	450	3.03	17.1	1.3	6.9	2	17	0.4
1458135	73.7	40.6	68	0.5	25.9	15.6	548	3.62	30.9	5.9	5.4	5.8	26	0.3
1458136	29.8	15.6	63	0.3	17.1	10.4	517	3.06	20.2	3.3	7.5	4	32	0.2
1458137	37.8	17.5	65	0.3	25.3	14.4	592	3.7	17.7	3.6	23.9	4.7	33	0.2
1458138	35.6	11.1	78	0.05	36.3	13.7	612	3.45	10.4	1.4	1.6	3.1	21	0.2

sample_id	sb_ppm	v_ppm	bi_ppm	ca_pct	p_pct	la_ppm	cr_ppm	mg_pct	ti_pct	ba_ppm	b_ppm	al_pct	na_pct	k_pct	w_ppm
1458509	1.2	89	7.6	0.45	0.108	26	29	0.84	0.121	302	1	3.18	0.02	0.25	0.9
1458510	1	84	5.7	0.38	0.089	25	32	0.8	0.136	264	1	2.74	0.02	0.2	0.6
1458511	0.8	79	5	0.55	0.084	21	27	0.78	0.111	276	3	2.78	0.019	0.17	0.4
1458512	0.8	73	2	0.43	0.061	16	30	0.65	0.086	178	2	2.09	0.016	0.11	0.3
1458513	0.7	72	2.7	0.44	0.082	18	33	0.66	0.077	196	2	2.36	0.014	0.08	0.2
1458514	0.8	78	4.4	0.39	0.069	16	32	0.68	0.084	194	2	2.27	0.016	0.1	0.2
1458515	1	78	4.7	0.38	0.087	17	32	0.72	0.096	188	2	2.43	0.017	0.12	1.5
1458516	0.7	66	3.8	0.36	0.057	15	25	0.59	0.113	137	1	1.71	0.018	0.1	0.3
1458517	1	85	8.4	0.44	0.067	23	33	0.77	0.116	187	1	2.96	0.024	0.14	0.7
1458518	0.8	77	3.5	0.32	0.09	16	34	0.69	0.119	175	2	2.9	0.02	0.12	0.7
1458518	0.6	76	3.6	0.32	0.078	16	33	0.68	0.114	167	3	2.89	0.02	0.12	0.6
1458519	0.6	78	1.6	0.3	0.054	14	34	0.68	0.132	122	2	2.8	0.018	0.08	0.4
1458520	0.8	87	2.8	0.27	0.059	13	28	0.47	0.112	101	2	2.34	0.012	0.09	0.4
1458521	0.8	86	2.2	0.21	0.054	11	27	0.46	0.128	106	1	1.75	0.015	0.1	0.8
1458522	0.7	84	1.4	0.2	0.039	10	29	0.33	0.104	123	2	1.94	0.015	0.05	0.3
1458523	0.7	79	1.8	0.29	0.068	15	35	0.67	0.12	153	2	2.91	0.014	0.08	0.5
1457501	0.9	69	3.5	0.3	0.115	17	27	0.54	0.044	212	0.5	3.3	0.028	0.11	0.2
1457503	0.8	70	1.9	0.55	0.082	19	29	0.63	0.093	171	2	2.34	0.025	0.1	0.3
1457504	0.8	73	1.7	0.34	0.068	18	32	0.54	0.073	168	2	2.43	0.021	0.07	0.2
1457505	0.8	71	1.8	0.41	0.069	20	31	0.57	0.078	167	2	2.26	0.019	0.08	0.2
1457506	0.7	82	1.6	0.29	0.049	14	35	0.56	0.094	152	1	2.38	0.013	0.07	0.2
1457507	0.7	75	1.1	0.39	0.075	15	33	0.61	0.103	153	3	2.02	0.016	0.08	0.2
1457508	0.8	75	1.9	0.44	0.072	15	33	0.63	0.108	147	0.5	2.31	0.018	0.1	0.2
1457509	0.7	69	2.2	0.44	0.066	15	30	0.62	0.094	176	1	2.19	0.019	0.09	0.2
1457510	0.8	67	2.2	0.52	0.083	24	26	0.69	0.094	164	1	2.56	0.021	0.12	0.2
1457511	0.5	72	2.7	0.4	0.064	17	24	0.64	0.106	124	1	2.19	0.018	0.13	0.3
1457512	0.7	82	1.5	0.33	0.062	18	31	0.65	0.117	154	2	2.74	0.018	0.1	0.2
1457513	0.7	78	1.6	0.42	0.076	20	28	0.69	0.116	161	1	2.61	0.03	0.13	0.2
1457514	0.7	70	1.5	0.38	0.058	14	25	0.58	0.106	129	0.5	2.33	0.021	0.08	0.2
1458524	0.7	77	1.8	0.26	0.06	17	36	0.62	0.12	120	2	2.76	0.018	0.08	0.3
1458525	0.7	71	2.3	0.32	0.07	13	32	0.62	0.113	121	1	2.62	0.021	0.09	0.3
1458131	1.1	90	4.8	0.5	0.091	23	39	0.78	0.06	283	2	3.05	0.02	0.12	0.3
1458132	0.7	77	4.5	0.48	0.075	16	37	0.79	0.086	194	2	2.59	0.015	0.13	0.2
1458133	0.5	80	2.1	0.29	0.045	11	37	0.64	0.134	108	2	2.43	0.021	0.1	0.4
1458134	0.5	73	1.7	0.27	0.061	11	33	0.58	0.086	90	2	2.1	0.015	0.09	0.3
1458135	0.8	78	5.5	0.36	0.07	16	35	0.68	0.1	106	1	2.22	0.021	0.12	0.5
1458136	0.5	73	2.4	0.43	0.075	14	28	0.71	0.101	126	2	1.91	0.022	0.16	0.2
1458137	0.6	86	5.2	0.34	0.058	16	36	0.74	0.102	144	2	2.57	0.017	0.12	0.3
1458138	0.6	74	1.5	0.32	0.068	12	38	0.74	0.102	138	2	2.87	0.015	0.1	0.3

sample_id	hg_ppm	tl_ppm	sc_ppm	s_pct	se_ppm	ga_ppm	te_ppm	sample_typ	analysis_m	shipment_i	job_number
1458509	0.04	0.7	7.1	0.025	0.25	10	0.3	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458510	0.03	0.6	6.6	0.025	0.25	8	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458511	0.03	0.5	6.3	0.05	0.25	8	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458512	0.02	0.3	4.1	0.025	0.25	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458513	0.03	0.3	4.9	0.05	0.25	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458514	0.03	0.3	4.3	0.025	0.25	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458515	0.03	0.4	5.3	0.07	0.25	8	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458516	0.03	0.3	4.4	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458517	0.04	0.5	5.4	0.025	0.25	9	0.2	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458518	0.05	0.3	5.3	0.025	0.6	7	0.3	REP	AQ201	ROY2016-10-14	WHI16000371
1458518	0.04	0.3	4.7	0.025	0.5	7	0.4	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458519	0.04	0.3	6.1	0.025	0.25	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458520	0.06	0.2	4.2	0.025	0.25	10	0.4	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458521	0.06	0.2	3.5	0.05	0.25	9	0.3	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458522	0.06	0.3	3.4	0.025	0.25	8	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458523	0.04	0.3	5.3	0.025	0.25	8	0.3	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457501	0.11	0.3	3.7	0.12	0.8	9	0.4	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457503	0.03	0.2	4.5	0.025	0.25	7	0.2	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457504	0.05	0.3	4.2	0.06	0.25	8	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457505	0.04	0.2	4	0.06	0.25	8	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457506	0.05	0.2	4.1	0.025	0.25	8	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457507	0.03	0.2	4	0.025	0.5	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457508	0.02	0.2	4	0.025	0.6	8	0.2	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457509	0.02	0.2	4	0.025	0.25	7	0.2	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457510	0.04	0.3	5.3	0.05	0.25	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457511	0.02	0.3	4.4	0.025	0.6	8	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457512	0.03	0.3	4.5	0.025	0.25	9	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457513	0.03	0.3	5.3	0.12	0.25	9	0.3	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457514	0.02	0.2	3.9	0.025	0.25	8	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458524	0.04	0.2	5.3	0.025	0.25	8	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458525	0.03	0.2	4.9	0.025	0.25	7	0.3	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458131	0.04	0.5	5.4	0.1	0.25	9	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458132	0.04	0.4	6.6	0.025	0.25	8	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458133	0.03	0.3	4.3	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458134	0.04	0.2	3.4	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458135	0.03	0.4	4.3	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458136	0.02	0.3	3.8	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458137	0.03	0.3	4.4	0.025	0.25	8	0.2	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458138	0.04	0.3	4	0.025	0.25	7	0.1	REP	AQ201	ROY2016-10-14	WHI16000371

sample_id	utm_zone	utm_eastin	utm_northi	elevation_	longitude	latitude	sample_dat	technician	colour	texture
1458138	07N	626236	6952645	1460	-138.5340912	62.68264211	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Sand
1458139	07N	626193	6952654	1461	-138.5349235	62.68273757	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Sand
1458140	07N	626136	6952645	1455	-138.5360425	62.68267641	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Sand
1458141	07N	626083	6952648	1458	-138.5370744	62.68272148	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Sand
1458142	07N	626035	6952648	1446	-138.538011	62.68273793	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Sand
1458143	07N	625983	6952645	1425	-138.5390279	62.68272884	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Sand
1458144	07N	625934	6952651	1409	-138.5399796	62.68279942	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Sand
1458145	07N	625882	6952646	1381	-138.5409979	62.68277237	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Sand
1458146	07N	625836	6952646	1373	-138.5418955	62.68278811	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Sand
1458147	07N	625794	6952644	1354	-138.5427165	62.68278454	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Sand
1458148	07N	625741	6952646	1347	-138.5437492	62.68282059	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Sand
1458149	07N	625693	6952647	1339	-138.5446851	62.68284596	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Sand
1458150	07N	625693	6952647	1339	-138.5446851	62.68284596	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Sand
1456188	07N	626593	6953046	1619	-138.5268169	62.6861195	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1457826	07N	625642	6952646	1329	-138.545681	62.68285441	9/21/2016	Dan Brown Hozjan DB02	Light Brown	Sand
1456189	07N	626541	6953045	1610	-138.5278405	62.68612427	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1456190	07N	626491	6953046	1613	-138.5288155	62.68615044	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1456191	07N	626444	6953048	1604	-138.5297327	62.6861816	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1456192	07N	626393	6953046	1597	-138.530728	62.68618412	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1457827	07N	625594	6952644	1318	-138.5466191	62.68285287	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Silt
1456193	07N	626340	6953046	1601	-138.5317622	62.68620233	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1456183	07N	626291	6953045	1614	-138.5327192	62.68621019	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1456184	07N	626240	6953046	1618	-138.5337137	62.68623666	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1456185	07N	626189	6953046	1621	-138.534709	62.68625416	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1456186	07N	626140	6953045	1631	-138.535666	62.686262	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1457828	07N	625542	6952646	1311	-138.5476323	62.68288855	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Clay
1457829	07N	625493	6952645	1304	-138.5485892	62.6828963	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Sand
1457830	07N	625442	6952645	1302	-138.5495843	62.68291369	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Sand
1457831	07N	625392	6952645	1301	-138.55056	62.68293073	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Silt
1457832	07N	625342	6952645	1298	-138.5515356	62.68294777	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Sand
1457833	07N	625292	6952645	1302	-138.5525113	62.6829648	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Sand
1457834	07N	625242	6952645	1302	-138.5534869	62.68298183	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Sand
1457835	07N	625192	6952642	1304	-138.5544648	62.68297194	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Sand
1457836	07N	625141	6952645	1304	-138.5554577	62.6830162	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Sand
1457837	07N	625091	6952646	1299	-138.5564327	62.68304217	9/21/2016	Dan Brown Hozjan DB02	Chocolate Brown	Sand
1456194	07N	626040	6953046	1614	-138.5376167	62.68630524	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1456187	07N	626090	6953046	1622	-138.536641	62.68628811	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1456195	07N	625990	6953046	1586	-138.5385925	62.68632237	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1458576	07N	625940	6953046	1573	-138.5395682	62.68633949	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt

sample_id	moisture	site_slope	depth	horizon	site_veget	ground_cov	quality	note1	note2	mo_ppm
1458138	Dry	Steep	30	C	No Tree Cover	Rock Cover	Good	Rocky Terrain		1.1
1458139	Dry	Pronounced Slope	30	C	No Tree Cover	Rock Cover	Good			4.4
1458140	Dry	Subtle Slope	20	C	No Tree Cover	Reindeer Moss	Good	Rocky Sample	Rocky Terrain	3.3
1458141	Dry	Steep	70	C	No Tree Cover	Rock Cover	Excellent			1.4
1458142	Dry	Pronounced Slope	30	C	No Tree Cover	Reindeer Moss	Excellent	Coarse		1.8
1458143	Dry	Pronounced Slope	50	C	No Tree Cover	Rock Cover	Good	Rocky Terrain		6.6
1458144	Dry	Steep	20	C	No Tree Cover	Rock Cover	Good	Rocky Sample	Rocky Terrain	3.3
1458145	Dry	Subtle Slope	50	C	Willows	Reindeer Moss	Good			7.2
1458146	Dry	Pronounced Slope	40	C	Willows	Grass Cover	Good			3.2
1458147	Dry	Pronounced Slope	30	C	No Tree Cover	Reindeer Moss	Good			3.3
1458148	Dry	Pronounced Slope	30	C	No Tree Cover	Reindeer Moss	Excellent			3.5
1458149	Dry	Pronounced Slope	60	C	Dwarf Birch	Reindeer Moss	Good			3.2
1458150	Dry	Pronounced Slope	60	C	Dwarf Birch	Reindeer Moss	Good			3.1
1456188	Dry	Subtle Slope	30	C	No Tree Cover	Rock Cover	Good		Rocky Terrain	2.1
1457826	Dry	Subtle Slope	50	C	Dwarf Birch	Reindeer Moss	Excellent			1.1
1456189	Dry	Subtle Slope	30	B	No Tree Cover	Bare Soil	Good	Organic 10%	Rocky Terrain	3.5
1456190	Dry	Subtle Slope	20	B	No Tree Cover	Reindeer Moss	Good	Rocky Terrain		2.4
1456191	Dry	Subtle Slope	40	C	No Tree Cover	Reindeer Moss	Good	Rocky Terrain		1.7
1456192	Dry	Subtle Slope	40	B	No Tree Cover	Rock Cover	Poor	Organic 25%	Rocky Terrain	1.7
1457827	Dry	Pronounced Slope	50	B	Dwarf Birch	Grass Cover	Good			2.3
1456193	Dry	Subtle Slope	50	C	No Tree Cover	Grass Cover	Excellent	Rocky Terrain		0.7
1456183	Dry	Subtle Slope	40	C	No Tree Cover	Reindeer Moss	Excellent	Rocky Terrain		4.9
1456184	Dry	Pronounced Slope	30	C	No Tree Cover	Reindeer Moss	Excellent	Rocky Terrain		4.2
1456185	Dry	Subtle Slope	30	B	No Tree Cover	Reindeer Moss	Good	Rocky Terrain		5.2
1456186	Dry	Pronounced Slope	30	C	No Tree Cover	Bare Soil	Good	Talus		1.9
1457828	Dry	Pronounced Slope	30	C	No Tree Cover	Reindeer Moss	Good			4.8
1457829	Dry	Pronounced Slope	50	C	No Tree Cover	Thin Moss Cover	Good			2.9
1457830	Dry	Subtle Slope	40	C	No Tree Cover	Reindeer Moss	Good	Rocky Sample		2.4
1457831	Dry	Subtle Slope	50	C	Dwarf Birch	Thin Moss Cover	Good			9.6
1457832	Dry	Subtle Slope	50	C	Dwarf Birch	Thin Moss Cover	Good	Bright Orange Rust		4.4
1457833	Dry	Subtle Slope	40	C	Dwarf Birch	Reindeer Moss	Excellent			2.4
1457834	Dry	Subtle Slope	50	C	Dwarf Birch	Reindeer Moss	Excellent			3.2
1457835	Dry	Subtle Slope	40	C	Dwarf Birch	Reindeer Moss	Good			3
1457836	Dry	Subtle Slope	40	C	No Tree Cover	Reindeer Moss	Good			7.3
1457837	Dry	Subtle Slope	50	C	No Tree Cover	Reindeer Moss	Good			4.1
1456194	Dry	Pronounced Slope	30	B	No Tree Cover	Bare Soil	Good	Talus		3.6
1456187	Dry	Pronounced Slope	30	C	No Tree Cover	Bare Soil	Excellent	Talus		1.6
1456195	Dry	Pronounced Slope	20	B	No Tree Cover	Bare Soil	Good	Talus		3.1
1458576	Dry	Pronounced Slope	30	B	No Tree Cover	Reindeer Moss	Good	Talus		1.5

sample_id	cu_ppm	pb_ppm	zn_ppm	ag_ppm	ni_ppm	co_ppm	mn_ppm	fe_pct	as_ppm	u_ppm	au_ppb	th_ppm	sr_ppm	cd_ppm
1458138	34.1	11.4	79	0.05	36.8	13.6	610	3.41	10.7	1.4	5	3	21	0.2
1458139	58.2	13.5	54	0.3	23.8	11.7	360	3.72	22	5.1	18	4	21	0.1
1458140	32.5	15.5	60	0.1	26.4	13.5	592	3.37	15.5	2.8	3.6	4.4	19	0.2
1458141	28.5	11.7	63	0.1	29.6	13	656	3.28	11.9	1.4	1.6	3.7	22	0.3
1458142	50.7	11.7	54	0.2	23.6	18.6	485	3.36	23.6	2.7	7.9	7	31	0.2
1458143	54.8	18.2	70	0.5	28.2	22.6	770	4.22	46.1	23	16	10	45	0.3
1458144	42.9	17.2	68	0.3	23.8	18.6	625	4.02	38.6	5.9	41.1	7.2	33	0.3
1458145	43.4	28.5	56	0.3	21.2	22.2	765	4.13	54.1	10.1	23.1	7.8	60	0.7
1458146	37.2	15.2	29	0.2	8.8	11.3	562	2.58	21.5	3.7	9.2	2.9	103	0.4
1458147	45.2	17	63	0.2	29	16.3	697	3.58	18	5.6	18.5	7.1	44	0.3
1458148	58.8	13.8	38	0.05	14.5	11	379	4.08	11.5	6.6	14.9	17.2	141	0.2
1458149	47.7	17.4	58	0.3	20.2	14.9	623	3.56	22.5	5.2	60.2	10.4	57	0.3
1458150	46.1	16.1	55	0.4	20.1	15.1	612	3.43	21.5	5.1	20.5	9.2	53	0.2
1456188	152	66.2	76	0.7	14.5	12.7	1099	3.98	91.8	3.2	68.1	14.4	118	0.5
1457826	28.8	9.4	52	0.1	19.6	10.2	391	2.67	11.2	1.6	15.8	6.2	31	0.3
1456189	26.5	19.9	59	0.5	15.9	7.9	483	3.15	21.1	5	5.7	1.8	56	0.3
1456190	21.2	16.8	60	0.05	19.2	9.5	435	3.18	20.3	1.3	1.4	2.2	23	0.2
1456191	52.1	15	61	0.3	26.7	12.4	520	3.31	26.4	1.6	14.4	2.7	20	0.2
1456192	21.8	14.7	57	0.2	20.3	9.6	447	2.86	20.5	1.4	158.6	1.5	20	0.2
1457827	26.3	15.6	55	0.4	21.4	10.8	620	3.1	19.4	4.1	4.8	1.7	39	0.1
1456193	22.2	13.5	59	0.4	21.4	9.9	499	3.09	11.6	2.8	4.2	5.1	25	0.1
1456183	43.4	21.5	74	0.2	26.2	14.1	729	3.65	27.5	3.1	6.8	4.3	24	0.2
1456184	36.9	31.3	70	0.2	22.2	14	536	3.12	72.8	3.7	16.9	5.5	28	0.4
1456185	19.8	11.4	67	0.05	18.6	7.7	392	3.23	13.6	0.8	4.7	1.3	14	0.1
1456186	29.2	9.9	78	0.05	34.2	12.6	623	3.17	11.8	1.2	4.5	2.9	16	0.3
1457828	50.6	26	50	0.9	15.2	7.5	315	2.93	17.7	4.1	62.9	2.6	65	0.5
1457829	36	16.6	51	0.4	16.5	11.2	430	2.75	14	5.5	70	5.4	71	0.3
1457830	45.2	15.2	52	0.2	17.6	13.2	510	3.19	16.4	7	16.7	6.9	62	0.3
1457831	15.1	57.9	116	0.5	13.8	10.8	532	3.49	10.7	4.2	46.4	5.8	53	0.8
1457832	48.3	14.7	47	0.3	16	8.8	346	3.8	7.7	4.4	20.2	5.6	88	0.2
1457833	29.9	19.9	53	0.3	16	12.2	444	3.48	9.1	3.9	11.3	4.4	57	0.3
1457834	36.5	14.6	62	0.2	19	10.7	450	3.13	11.7	3.9	16.8	5.3	62	0.2
1457835	113.2	20	55	0.3	16.5	9.1	372	3.61	9.5	6.1	14.3	6.3	98	0.3
1457836	114.2	15.7	52	0.6	23.3	12.4	461	4.35	9.7	3.5	128.6	7.4	48	0.3
1457837	46.1	19.1	43	0.3	14.7	7.7	250	3.71	10.4	2.8	26.7	5.3	41	0.2
1456194	31.5	16.5	54	0.3	22.9	12.3	490	3.09	17.8	1.3	8.7	2.6	21	0.2
1456187	37.9	12.1	53	0.2	25.7	11.3	639	2.85	11.2	1.5	27.9	4	23	0.2
1456195	48.2	16.5	68	0.4	26.4	15.9	600	3.31	26.5	3.3	41.2	6	39	0.2
1458576	30.8	16.6	60	0.1	23.9	14	510	3.09	25.1	1.7	10.1	4.9	45	0.3

sample_id	sb_ppm	v_ppm	bi_ppm	ca_pct	p_pct	la_ppm	cr_ppm	mg_pct	ti_pct	ba_ppm	b_ppm	al_pct	na_pct	k_pct	w_ppm
1458138	0.5	72	1.5	0.32	0.069	12	39	0.74	0.102	137	2	2.89	0.015	0.09	0.3
1458139	0.8	95	7.1	0.25	0.053	12	35	0.51	0.111	72	3	2.06	0.015	0.07	1.1
1458140	0.5	79	1.9	0.29	0.057	13	35	0.74	0.1	107	2	2.51	0.017	0.1	0.5
1458141	0.5	77	0.7	0.35	0.065	12	36	0.66	0.095	113	2	2.32	0.016	0.09	0.2
1458142	0.5	78	4.8	0.39	0.068	14	32	0.68	0.12	109	2	2.36	0.021	0.12	0.5
1458143	0.8	80	4.7	0.43	0.122	23	33	0.71	0.09	142	2	2.46	0.03	0.16	0.5
1458144	1	75	3.6	0.26	0.128	15	30	0.55	0.087	118	3	2.32	0.023	0.09	0.6
1458145	1.1	62	6.8	0.4	0.123	20	26	0.56	0.068	159	2	2.4	0.038	0.14	0.3
1458146	0.6	44	4.1	0.81	0.094	16	13	0.47	0.008	142	0.5	2.55	0.032	0.09	0.1
1458147	0.8	80	2	0.39	0.084	16	35	0.71	0.109	168	2	2.63	0.019	0.09	0.3
1458148	0.8	61	2.3	0.48	0.103	23	22	0.48	0.067	221	1	2.21	0.046	0.13	0.2
1458149	0.9	74	3.8	0.44	0.089	20	29	0.62	0.09	181	1	2.47	0.025	0.11	0.4
1458150	0.8	74	3.1	0.44	0.086	20	29	0.61	0.092	170	1	2.46	0.025	0.11	0.3
1456188	2	51	43.9	0.2	0.054	28	18	0.72	0.026	164	0.5	2.34	0.006	0.11	0.1
1457826	0.6	66	3.2	0.39	0.078	12	27	0.54	0.104	135	2	1.78	0.018	0.07	0.3
1456189	0.8	79	0.7	0.65	0.144	29	33	0.57	0.037	316	3	2.21	0.01	0.1	0.1
1456190	0.6	71	0.9	0.17	0.054	10	34	0.57	0.068	83	0.5	2.09	0.008	0.07	0.1
1456191	0.6	76	4.9	0.23	0.043	11	36	0.7	0.096	111	1	2.22	0.012	0.09	0.1
1456192	0.6	69	1	0.22	0.054	8	31	0.47	0.071	87	2	1.81	0.011	0.07	0.1
1457827	0.6	73	1.3	0.43	0.069	18	35	0.59	0.052	144	2	2.21	0.015	0.07	0.1
1456193	0.5	69	1	0.36	0.069	13	36	0.7	0.084	122	2	2.31	0.011	0.1	0.2
1456183	0.6	83	2.1	0.32	0.057	12	37	0.84	0.109	153	2	2.63	0.013	0.14	0.3
1456184	0.7	69	2.5	0.37	0.067	11	30	0.64	0.091	122	2	2.01	0.016	0.1	0.4
1456185	0.6	85	0.7	0.17	0.042	8	35	0.4	0.091	80	0.5	1.66	0.007	0.05	0.2
1456186	0.6	71	0.6	0.23	0.062	12	37	0.66	0.084	103	3	2.33	0.009	0.07	0.2
1457828	2.4	68	4	0.43	0.055	16	26	0.38	0.056	102	2	1.85	0.018	0.08	0.1
1457829	0.9	61	2.9	0.46	0.072	15	27	0.57	0.095	113	2	1.79	0.024	0.09	0.2
1457830	1	68	2.2	0.4	0.076	17	29	0.58	0.095	166	1	2.01	0.02	0.08	0.3
1457831	1.8	37	1.1	0.35	0.094	20	21	0.35	0.018	387	2	1.43	0.007	0.09	0.1
1457832	0.6	75	3.4	0.61	0.089	14	27	0.75	0.104	138	0.5	2.39	0.021	0.14	0.3
1457833	0.7	72	1.5	0.38	0.074	14	27	0.58	0.078	117	2	2.12	0.021	0.09	0.2
1457834	0.9	64	1.4	0.63	0.068	13	30	0.66	0.073	106	2	2.96	0.019	0.09	0.2
1457835	0.8	69	2.7	0.42	0.077	17	26	0.57	0.099	120	2	2.61	0.025	0.09	0.2
1457836	0.7	73	1.5	0.39	0.111	16	32	0.69	0.113	105	2	2.22	0.02	0.1	0.8
1457837	1	81	1.8	0.19	0.058	14	26	0.43	0.101	101	1	2.31	0.015	0.07	0.4
1456194	0.9	72	2	0.25	0.053	10	34	0.52	0.073	95	2	1.95	0.012	0.06	0.2
1456187	0.5	71	1.8	0.29	0.045	13	37	0.62	0.095	100	3	2.18	0.014	0.07	0.3
1456195	0.7	76	2.5	0.45	0.089	17	35	0.7	0.107	177	2	2.43	0.018	0.09	0.3
1458576	0.7	72	2.2	0.42	0.089	14	31	0.59	0.094	131	2	2.04	0.017	0.07	0.4

sample_id	hg_ppm	tl_ppm	sc_ppm	s_pct	se_ppm	ga_ppm	te_ppm	sample_typ	analysis_m	shipment_i	job_number
1458138	0.05	0.3	4.1	0.025	0.25	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458139	0.04	0.3	3.4	0.025	0.6	9	0.4	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458140	0.04	0.2	4.1	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458141	0.04	0.2	3.7	0.025	0.25	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458142	0.02	0.3	3.8	0.025	0.25	7	0.2	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458143	0.05	0.3	5	0.1	0.9	6	0.7	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458144	0.07	0.2	4.3	0.09	0.9	7	0.3	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458145	0.06	0.3	3.6	0.18	0.7	6	1.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458146	0.07	0.2	1.7	0.07	0.25	6	0.5	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458147	0.06	0.2	5.2	0.025	0.7	7	0.2	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458148	0.02	0.3	3.8	0.16	0.5	6	0.4	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458149	0.03	0.3	4.7	0.025	0.25	7	0.2	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458150	0.04	0.3	4.9	0.025	0.25	7	0.2	SOIL	AQ201	ROY2016-10-14	WHI16000371
1456188	0.02	0.4	4.2	0.025	0.25	9	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457826	0.03	0.1	3.6	0.025	0.25	5	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1456189	0.05	0.3	3.7	0.15	0.25	8	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1456190	0.03	0.2	3.3	0.025	0.25	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1456191	0.03	0.2	4.3	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1456192	0.08	0.2	2.9	0.06	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457827	0.04	0.2	3.5	0.05	0.25	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1456193	0.03	0.2	4.9	0.025	0.25	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1456183	0.03	0.3	4.7	0.025	0.25	8	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1456184	0.02	0.3	3.8	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1456185	0.04	0.2	2.9	0.025	0.25	9	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1456186	0.04	0.2	3.5	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457828	0.04	0.2	2.8	0.06	0.25	7	0.5	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457829	0.03	0.2	3.7	0.05	0.25	6	0.2	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457830	0.03	0.2	4.1	0.025	0.5	7	0.3	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457831	0.04	0.2	2.8	0.08	0.8	4	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457832	0.02	0.3	4.5	0.025	0.9	8	0.6	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457833	0.03	0.2	3.5	0.025	0.7	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457834	0.02	0.2	4.3	0.025	0.25	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457835	0.03	0.2	4.5	0.025	0.5	7	0.4	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457836	0.04	0.2	4.7	0.025	1	6	0.7	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457837	0.05	0.2	3.8	0.05	0.6	10	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1456194	0.05	0.2	3.2	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1456187	0.03	0.2	4.2	0.025	0.25	5	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1456195	0.04	0.2	5.3	0.025	0.25	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458576	0.04	0.1	4	0.025	0.25	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371

sample_id	utm_zone	utm_eastin	utm_northi	elevation_	longitude	latitude	sample_dat	technician	colour	texture
1458577	07N	625892	6953033	1551	-138.5405146	62.68623934	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1458578	07N	625839	6953057	1530	-138.5415311	62.6864727	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1458579	07N	625790	6953045	1511	-138.5424962	62.68638185	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1458580	07N	625739	6953045	1525	-138.5434915	62.68639928	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1458581	07N	625690	6953046	1501	-138.544447	62.686425	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1458582	07N	625639	6953046	1507	-138.5454423	62.68644242	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1458583	07N	625590	6953045	1491	-138.5463993	62.68645018	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1458584	07N	625543	6953046	1484	-138.5473157	62.68647519	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1458586	07N	625494	6953046	1474	-138.548272	62.68649191	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1458587	07N	625444	6953047	1438	-138.549247	62.68651794	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1458585	07N	625392	6953045	1429	-138.5502633	62.68651773	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1458588	07N	625342	6953046	1453	-138.5512383	62.68654374	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1458589	07N	625291	6953046	1419	-138.5522336	62.68656111	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1458589	07N	625291	6953046	1419	-138.5522336	62.68656111	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1458590	07N	625242	6953046	1404	-138.5531899	62.6865778	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1458591	07N	625192	6953047	1398	-138.5541649	62.68660378	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1457783	07N	626586	6953248	1617	-138.5268103	62.68792916	9/21/2016	Jack Taforo JT01	Chocolate Brown	Silt
1457784	07N	626541	6953247	1621	-138.5276893	62.68793567	9/21/2016	Jack Taforo JT01	Chocolate Brown	Silt
1458592	07N	625143	6953046	1374	-138.5551219	62.68661149	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1457785	07N	626489	6953245	1627	-138.5287056	62.68793563	9/21/2016	Jack Taforo JT01	Chocolate Brown	Silt
1457786	07N	626440	6953248	1633	-138.5296597	62.68797937	9/21/2016	Jack Taforo JT01	Chocolate Brown	Gravel
1458593	07N	625092	6953047	1351	-138.5561164	62.6866378	9/21/2016	Brian Hyde BH01	Chocolate Brown	Silt
1457787	07N	626389	6953248	1632	-138.530655	62.6879969	9/21/2016	Jack Taforo JT01	Chocolate Brown	Silt
1458553	07N	626592	6952846	1547	-138.5269943	62.68432223	9/21/2016	Yoann Voyer YV01	Dark Brown	Sand
1457788	07N	626339	6953244	1627	-138.5316338	62.68797821	9/21/2016	Jack Taforo JT01	Chocolate Brown	Silt
1458554	07N	626541	6952845	1553	-138.5279902	62.68433081	9/21/2016	Yoann Voyer YV01	Dark Brown	Silt
1458555	07N	626489	6952845	1549	-138.5290049	62.68434869	9/21/2016	Yoann Voyer YV01	Chocolate Brown	Silt
1457789	07N	626289	6953245	1631	-138.5326088	62.68800435	9/21/2016	Jack Taforo JT01	Chocolate Brown	Gravel
1458556	07N	626439	6952846	1541	-138.5299799	62.68437484	9/21/2016	Yoann Voyer YV01	Chocolate Brown	Silt
1457790	07N	626240	6953245	1639	-138.5335651	62.68802117	9/21/2016	Jack Taforo JT01	Light Brown	Gravel
1458557	07N	626391	6952845	1535	-138.5309173	62.68438237	9/21/2016	Yoann Voyer YV01	Chocolate Brown	Silt
1457791	07N	626188	6953252	1660	-138.5345747	62.68810178	9/21/2016	Jack Taforo JT01	Chocolate Brown	Silt
1458558	07N	626340	6952845	1531	-138.5319125	62.68439989	9/21/2016	Yoann Voyer YV01	Dark Brown	Silt
1457792	07N	626141	6953245	1668	-138.5354972	62.68805513	9/21/2016	Jack Taforo JT01	Chocolate Brown	Silt
1458559	07N	626289	6952846	1541	-138.5329069	62.68442637	9/21/2016	Yoann Voyer YV01	Chocolate Brown	Sand
1457793	07N	626090	6953248	1655	-138.5364903	62.68809952	9/21/2016	Jack Taforo JT01	Chocolate Brown	Gravel
1458560	07N	626240	6952846	1546	-138.5338631	62.68444319	9/21/2016	Yoann Voyer YV01	Chocolate Brown	Silt
1458561	07N	626190	6952846	1555	-138.5348388	62.68446034	9/21/2016	Yoann Voyer YV01	Chocolate Brown	Silt
1457794	07N	626039	6953245	1640	-138.5374878	62.6880901	9/21/2016	Jack Taforo JT01	Dark Brown	Silt

sample_id	moisture	site_slope	depth	horizon	site_veget	ground_cov	quality	note1	note2	mo_ppm
1458577	Dry	Subtle Slope	30	B	No Tree Cover	Reindeer Moss	Good	Talus		1.2
1458578	Dry	Pronounced Slope	30	B	No Tree Cover	Reindeer Moss	Good	Rocky Terrain		2.1
1458579	Dry	Pronounced Slope	40	C	No Tree Cover	Grass Cover	Good	Rocky Terrain		1.4
1458580	Dry	Steep	30	B	No Tree Cover	Reindeer Moss	Good	Talus		1.8
1458581	Dry	Pronounced Slope	20	B	No Tree Cover	Bare Soil	Good	Talus		3.8
1458582	Dry	Steep	30	B	No Tree Cover	Reindeer Moss	Good	Talus		1.7
1458583	Dry	Pronounced Slope	30	B	No Tree Cover	Rock Cover	Good	Talus		2.9
1458584	Dry	Steep	30	B	No Tree Cover	Bare Soil	Good	Talus		3.2
1458586	Dry	Steep	50	B	No Tree Cover	Bare Soil	Good	Organic 10%	Talus	1.8
1458587	Dry	Steep	30	B	No Tree Cover	Reindeer Moss	Good	Organic 10%	Rocky Terrain	2.6
1458585	Dry	Steep	40	C	No Tree Cover	Reindeer Moss	Good	Rocky Terrain		3.4
1458588	Dry	Pronounced Slope	40	B	No Tree Cover	Reindeer Moss	Good	Rocky Terrain		2.2
1458589	Dry	Pronounced Slope	20	B	No Tree Cover	Reindeer Moss	Good	Rocky Terrain		2.2
1458589	Dry	Pronounced Slope	20	B	No Tree Cover	Reindeer Moss	Good	Rocky Terrain		2.2
1458590	Dry	Pronounced Slope	30	B	No Tree Cover	Reindeer Moss	Good	Rocky Terrain		1.7
1458591	Dry	Steep	30	B	No Tree Cover	Reindeer Moss	Good	Rocky Terrain		1.5
1457783	Dry	Subtle Slope	50	C	No Tree Cover	Reindeer Moss	Excellent	Coarse	Rocky Terrain	0.7
1457784	Dry	Subtle Slope	50	C	No Tree Cover	Reindeer Moss	Good	Rocky Terrain	Coarse	1.7
1458592	Dry	Steep	20	B	No Tree Cover	Reindeer Moss	Poor	Organic 25%	Rocky Terrain	1.8
1457785	Dry	Subtle Slope	40	C	No Tree Cover	Reindeer Moss	Excellent	Rocky Sample	Rocky Terrain	3.3
1457786	Dry	Flat	30	C	No Tree Cover	Reindeer Moss	Good	Bright Orange Rust	Rocky Sample	6.1
1458593	Dry	Pronounced Slope	40	B	No Tree Cover	Reindeer Moss	Good	Rocky Terrain		2
1457787	Damp	Subtle Slope	40	C	No Tree Cover	Frost Boil	Excellent	Fine	Rocky Terrain	0.8
1458553	Dry	Pronounced Slope	40	C	No Tree Cover	Reindeer Moss	Excellent	Coarse	Rocky Terrain	2.1
1457788	Damp	Subtle Slope	50	C	No Tree Cover	Frost Boil	Excellent	Coarse	Rocky Terrain	0.8
1458554	Dry	Pronounced Slope	40	B	No Tree Cover	Reindeer Moss	Good	Rocky Terrain		1.8
1458555	Dry	Pronounced Slope	20	B	No Tree Cover	Rock Cover	Good	Coarse		7.4
1457789	Dry	Subtle Slope	60	C	No Tree Cover	Frost Boil	Excellent	Rocky Terrain	Rocky Sample	1
1458556	Damp	Pronounced Slope	40	B	No Tree Cover	Reindeer Moss	Good	Coarse	Rocky Terrain	1.3
1457790	Dry	Pronounced Slope	60	C	No Tree Cover	Frost Boil	Excellent	Rocky Sample	Rocky Terrain	0.5
1458557	Damp	Pronounced Slope	70	C	No Tree Cover	Sphagnum Moss < 30cm	Good	Coarse		5.5
1457791	Dry	Pronounced Slope	40	C	No Tree Cover	Reindeer Moss	Good	Fine	Rocky Sample	0.7
1458558	Damp	Pronounced Slope	40	B	Willows	Sphagnum Moss < 30cm	Good	Coarse		2.7
1457792	Dry	Flat	50	C	No Tree Cover	Frost Boil	Excellent	Fine	Rocky Terrain	1.4
1458559	Damp	Pronounced Slope	30	C	No Tree Cover	Bare Soil	Good	Coarse		1.4
1457793	Dry	Pronounced Slope	40	C	No Tree Cover	Reindeer Moss	Good	Rocky Sample	Rocky Terrain	1.7
1458560	Dry	Pronounced Slope	30	B	No Tree Cover	Leaf Cover	Good	Sandy		0.9
1458561	Damp	Pronounced Slope	40	B	No Tree Cover	Bare Soil	Good	Coarse	Rocky Terrain	7
1457794	Dry	Pronounced Slope	40	C	No Tree Cover	Bare Soil	Good	Rocky Sample	Rocky Terrain	1

sample_id	cu_ppm	pb_ppm	zn_ppm	ag_ppm	ni_ppm	co_ppm	mn_ppm	fe_pct	as_ppm	u_ppm	au_ppb	th_ppm	sr_ppm	cd_ppm
1458577	27	16.2	55	0.1	16.5	12.6	705	3.17	16.6	10.8	5.5	6.4	79	0.1
1458578	27.4	21.3	65	0.6	22	12.4	767	3.06	68.1	1.5	15.6	1.7	26	0.3
1458579	26.9	13.8	61	0.4	19.8	10.4	524	2.86	21.6	3.3	6.7	5.8	45	0.1
1458580	25.1	24.8	85	0.3	21.4	11.1	604	3.57	16.5	1	319	1	37	0.3
1458581	37.1	137.7	75	0.6	23.6	13.6	632	3.49	30.4	1.9	31.9	3.1	33	0.7
1458582	36.6	76.6	71	0.4	24.2	14	590	3.4	88.6	1.9	22.6	3.8	79	0.3
1458583	36.8	36.3	59	0.5	21.6	14.3	465	3.46	53.4	2.7	78.8	2.4	116	0.2
1458584	48.6	24.1	53	0.6	24.5	17.4	568	3.73	61.3	4.3	40.9	4.7	61	0.2
1458586	25.9	13.2	70	0.05	22.7	12.7	747	3.68	14.1	1.3	5.6	0.9	29	0.1
1458587	32.2	22.1	64	0.5	19.2	15.9	552	3.3	28.3	3.6	10.1	4.4	178	0.3
1458585	84.1	33.9	72	1.4	18.1	13.5	675	3.95	80.1	3.9	15.1	2.7	63	0.3
1458588	27.4	21.4	91	0.4	20.3	15.1	463	3.07	85.5	2.4	8	6.9	45	1.1
1458589	22.2	51	105	0.2	19.8	9.4	523	3.61	17	1.4	4.8	2.7	21	0.4
1458589	22.6	51.1	104	0.2	19.4	10	536	3.7	18	1.4	4.3	2.9	22	0.4
1458590	20.8	16.1	62	0.05	20.4	9.5	410	3.3	12.9	0.9	6.1	2.1	17	0.3
1458591	23	25.1	65	0.3	19.9	13.5	513	3.01	16.9	1.8	14.4	6.3	78	0.3
1457783	29.1	14	74	0.05	21.7	13.9	739	3.67	13.3	2.7	3.1	9.5	93	0.2
1457784	45.4	21.8	88	0.2	20.1	15	826	3.95	36.3	4.5	5.1	9.6	80	0.3
1458592	21.2	25.9	56	0.2	17	8.9	333	3.18	18	1.6	10.4	1.9	37	0.3
1457785	39.7	25.9	53	0.1	17.3	23.5	1485	3.36	106.2	3.6	13.6	10.5	19	0.2
1457786	59.9	146.4	100	2.2	26.5	13.4	550	3.83	597.3	1.8	67.1	4.2	23	0.9
1458593	22.7	13.3	55	0.1	16.5	9.8	334	2.78	14.5	1.4	18.4	4.7	36	0.3
1457787	30.5	12.1	61	0.1	23.1	11.5	437	2.94	12.7	1.3	4.2	5	45	0.1
1458553	21.5	13.7	62	0.2	19.8	10.1	428	3.11	19.6	1.1	27.6	2.4	21	0.2
1457788	32.4	23.1	60	0.3	20.8	11.6	530	3.06	11.2	2	2.2	7.2	53	0.2
1458554	46.1	13.9	76	0.05	25.4	12	469	3.14	22.9	1.1	55.4	3.2	16	0.3
1458555	34	18.5	71	0.2	22.6	10.3	500	3.27	35.5	1.4	15	1.9	23	0.3
1457789	35.2	15.9	57	0.3	21.8	13.2	657	3.13	11.9	2	5.2	7.2	44	0.2
1458556	27.8	12.6	56	0.05	27.2	11.5	478	3.28	21.1	0.9	10.3	3.4	16	0.2
1457790	23	24.8	46	0.4	10.9	11	978	2.33	11.5	1.7	2.3	8.2	50	0.2
1458557	41.3	22.9	74	0.7	21.8	12.1	599	3.57	39.7	3.1	18.2	4	42	0.2
1457791	25.2	7.9	67	0.05	30.3	12.4	535	3.17	9.4	1	6.1	4.1	44	0.2
1458558	28	17	63	0.4	14.3	8.7	631	3.05	16.3	5.6	4.1	0.8	52	0.3
1457792	23.2	17.4	49	0.2	14.1	11	949	2.57	32.1	1.6	5.2	6.9	49	0.1
1458559	25.2	11.4	62	0.05	28	11.8	556	3.32	10.7	1.1	6.3	2.9	16	0.2
1457793	45	14.8	62	0.3	23.5	13.9	750	3.2	16	3.2	6.4	6.1	92	0.2
1458560	39.5	15.8	53	0.2	28.3	13.7	519	2.89	9.1	1.2	12.8	3.8	18	0.3
1458561	38.2	18.7	73	0.2	32.7	15.9	810	3.78	23.5	3.2	22.2	3.4	17	0.3
1457794	22.8	9.4	71	0.05	25.5	11.7	523	2.94	10.1	0.9	5.5	3.9	22	0.2

sample_id	sb_ppm	v_ppm	bi_ppm	ca_pct	p_pct	la_ppm	cr_ppm	mg_pct	ti_pct	ba_ppm	b_ppm	al_pct	na_pct	k_pct	w_ppm
1458577	1	57	1.2	0.49	0.093	26	21	0.51	0.036	160	0.5	2.31	0.011	0.09	0.3
1458578	1.3	69	3.6	0.32	0.063	15	34	0.56	0.059	132	2	1.83	0.011	0.08	0.3
1458579	0.8	63	1.2	0.42	0.066	17	29	0.62	0.083	154	1	2.1	0.013	0.08	0.2
1458580	1.1	80	3.3	0.26	0.064	11	35	0.49	0.066	158	2	2.03	0.008	0.07	0.1
1458581	2.4	75	7.4	0.27	0.062	13	34	0.55	0.076	126	2	2.03	0.011	0.08	0.2
1458582	1.7	67	3.8	0.43	0.074	12	31	0.52	0.074	145	2	2.31	0.013	0.11	0.2
1458583	1.1	67	6.6	0.51	0.085	11	30	0.48	0.059	112	2	1.95	0.026	0.08	0.3
1458584	1.5	69	11.4	0.35	0.064	16	32	0.57	0.081	116	2	2.42	0.024	0.09	0.2
1458586	0.9	80	1	0.21	0.078	12	38	0.54	0.054	143	2	2.72	0.009	0.07	0.1
1458587	1.8	61	3.2	0.8	0.099	15	26	0.66	0.063	190	1	2.87	0.028	0.12	0.1
1458585	3.3	70	34.1	0.48	0.084	12	26	0.74	0.048	117	0.5	2.83	0.009	0.12	0.1
1458588	4.4	55	1.5	0.42	0.083	12	27	0.64	0.075	104	0.5	2.4	0.012	0.08	0.1
1458589	1.8	82	1	0.14	0.055	11	33	0.51	0.071	82	1	2.38	0.009	0.07	0.1
1458589	1.9	84	1	0.14	0.054	11	34	0.52	0.076	83	2	2.44	0.01	0.07	0.1
1458590	0.9	79	0.5	0.16	0.052	12	36	0.48	0.08	83	2	2.42	0.008	0.07	0.1
1458591	1.5	61	0.9	0.68	0.092	13	27	0.68	0.11	114	1	2.5	0.019	0.09	0.3
1457783	0.7	82	0.9	0.55	0.105	25	34	0.91	0.119	328	1	2.91	0.013	0.16	0.1
1457784	1	81	2.6	0.49	0.094	27	31	0.88	0.066	238	1	2.97	0.012	0.09	0.05
1458592	1.2	74	1.4	0.28	0.059	11	31	0.52	0.08	96	1	2.28	0.011	0.06	0.2
1457785	1.3	52	4.1	0.24	0.079	20	21	0.53	0.013	91	1	2.67	0.006	0.06	0.1
1457786	3.7	64	28.2	0.23	0.053	15	33	0.56	0.08	123	3	1.98	0.021	0.14	0.2
1458593	1.1	67	2.1	0.4	0.08	12	27	0.55	0.106	98	1	1.89	0.014	0.06	0.2
1457787	0.6	67	0.6	0.31	0.064	17	36	0.66	0.108	113	2	2.47	0.013	0.08	0.4
1458553	0.5	71	2.8	0.23	0.048	8	32	0.57	0.08	94	2	1.67	0.011	0.08	0.2
1457788	0.7	67	4.3	0.37	0.079	21	30	0.7	0.097	141	2	2.39	0.016	0.09	0.3
1458554	0.6	69	17.5	0.23	0.034	9	35	0.59	0.095	76	2	1.93	0.009	0.08	0.5
1458555	0.7	75	4.7	0.22	0.053	9	34	0.54	0.072	106	3	1.85	0.012	0.08	0.2
1457789	0.9	65	0.9	0.39	0.062	25	31	0.68	0.064	157	1	2.32	0.016	0.1	0.5
1458556	0.5	75	3.5	0.21	0.038	9	36	0.62	0.103	83	1	2.47	0.009	0.09	0.4
1457790	1.3	38	0.6	0.63	0.079	24	15	0.65	0.005	116	1	2.22	0.009	0.1	0.3
1458557	0.9	77	8.6	0.41	0.049	14	34	0.81	0.087	137	2	2.52	0.012	0.15	0.1
1457791	0.5	85	0.3	0.38	0.055	14	37	0.61	0.129	127	2	2.12	0.02	0.05	0.3
1458558	0.5	70	2.4	0.54	0.093	20	28	0.61	0.047	227	2	2.23	0.014	0.19	0.2
1457792	0.9	44	0.9	0.36	0.064	18	18	0.53	0.023	191	0.5	3.05	0.013	0.11	0.05
1458559	0.6	80	0.4	0.22	0.047	10	38	0.64	0.094	101	3	2.46	0.01	0.07	0.2
1457793	1	67	1.2	0.46	0.083	26	33	0.75	0.068	356	2	2.29	0.02	0.09	0.2
1458560	0.4	63	2.7	0.26	0.049	8	32	0.65	0.103	111	2	2.54	0.012	0.1	0.2
1458561	0.6	84	1.6	0.21	0.074	17	43	0.72	0.082	162	2	3.05	0.009	0.11	0.2
1457794	0.5	68	0.4	0.26	0.046	12	32	0.58	0.1	99	2	2.18	0.014	0.06	0.2

sample_id	hg_ppm	tl_ppm	sc_ppm	s_pct	se_ppm	ga_ppm	te_ppm	sample_typ	analysis_m	shipment_i	job_number
1458577	0.04	0.3	5.3	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458578	0.04	0.2	3	0.06	0.25	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458579	0.03	0.2	4.6	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458580	0.05	0.2	2.7	0.05	0.25	9	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458581	0.06	0.1	3.6	0.025	0.25	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458582	0.04	0.2	3.5	0.06	0.5	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458583	0.06	0.1	2.5	0.08	0.5	6	1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458584	0.05	0.2	3.9	0.09	0.25	6	0.6	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458586	0.06	0.2	2.7	0.06	0.25	8	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458587	0.04	0.3	4	0.025	0.25	8	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458585	0.05	0.3	3.1	0.06	0.25	9	0.3	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458588	0.02	0.2	4	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458589	0.05	0.3	3.2	0.025	0.25	9	0.1	REP	AQ201	ROY2016-10-14	WHI16000371
1458589	0.06	0.2	3.1	0.025	0.25	9	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458590	0.05	0.2	3.4	0.025	0.25	8	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458591	0.03	0.2	4.5	0.025	0.25	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457783	0.02	0.4	8.3	0.025	0.25	8	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457784	0.03	0.4	8.2	0.025	0.25	8	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458592	0.04	0.2	3.4	0.025	0.25	8	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457785	0.03	0.3	5.8	0.025	0.25	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457786	0.07	0.3	4.5	0.16	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458593	0.03	0.2	3.6	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457787	0.03	0.2	5.4	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458553	0.03	0.2	3.3	0.025	0.25	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457788	0.03	0.2	5.2	0.025	0.25	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458554	0.04	0.2	3.6	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458555	0.05	0.3	3.2	0.05	0.25	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457789	0.03	0.3	5.4	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458556	0.04	0.3	3.9	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457790	0.01	0.2	4.7	0.025	0.25	5	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458557	0.03	0.4	4.8	0.025	0.25	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457791	0.07	0.05	4.4	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458558	0.03	0.5	2.6	0.09	0.25	8	0.2	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457792	0.03	0.2	4.6	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458559	0.04	0.2	3.8	0.025	0.25	8	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457793	0.03	0.2	5.5	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458560	0.04	0.3	3.8	0.025	0.25	5	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458561	0.05	0.2	4.9	0.06	0.6	8	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457794	0.04	0.1	4	0.025	0.25	5	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371

sample_id	utm_zone	utm_eastin	utm_northi	elevation_	longitude	latitude	sample_dat	technician	colour	texture
1458562	07N	626139	6952845	1555	-138.5358347	62.68446886	9/21/2016	Yoann Voyer YV01	Chocolate Brown	Silt
1458563	07N	626090	6952846	1556	-138.5367901	62.68449463	9/21/2016	Yoann Voyer YV01	Chocolate Brown	Silt
1457795	07N	625990	6953245	1627	-138.5384441	62.68810688	9/21/2016	Jack Taforo JT01	Chocolate Brown	Silt
1458564	07N	626029	6952842	1551	-138.5379835	62.68447966	9/21/2016	Yoann Voyer YV01	Chocolate Brown	Silt
1457796	07N	625939	6953242	1611	-138.5394417	62.68809744	9/21/2016	Jack Taforo JT01	Chocolate Brown	Silt
1458565	07N	625989	6952845	1527	-138.5387618	62.68452026	9/21/2016	Yoann Voyer YV01	Chocolate Brown	Sand
1457797	07N	625890	6953240	1596	-138.5403995	62.68809628	9/21/2016	Jack Taforo JT01	Chocolate Brown	Silt
1458566	07N	625939	6952846	1506	-138.5397367	62.68454635	9/21/2016	Yoann Voyer YV01	Dark Brown	Silt
1458567	07N	625889	6952846	1473	-138.5407124	62.68456346	9/21/2016	Yoann Voyer YV01	Chocolate Brown	Sand
1457798	07N	625836	6953243	1583	-138.5414511	62.68814166	9/21/2016	Jack Taforo JT01	Chocolate Brown	Silt
1458568	07N	625839	6952846	1451	-138.5416881	62.68458057	9/21/2016	Yoann Voyer YV01	Reddish Yellow	Silt
1457799	07N	625789	6953241	1573	-138.5423699	62.6881398	9/21/2016	Jack Taforo JT01	Chocolate Brown	Silt
1457799	07N	625789	6953241	1573	-138.5423699	62.6881398	9/21/2016	Jack Taforo JT01	Chocolate Brown	Silt
1458569	07N	625790	6952847	1432	-138.5426436	62.68460629	9/21/2016	Yoann Voyer YV01	Chocolate Brown	Silt
1457800	07N	625789	6953241	1573	-138.5423699	62.6881398	9/21/2016	Jack Taforo JT01	Chocolate Brown	Silt
1458570	07N	625744	6952846	1421	-138.543542	62.68461305	9/21/2016	Yoann Voyer YV01	Chocolate Brown	Sand
1458571	07N	625694	6952847	1408	-138.5445169	62.68463911	9/21/2016	Yoann Voyer YV01	Dark Brown	Silt
1458251	07N	625742	6953241	1563	-138.5432871	62.68815587	9/21/2016	Jack Taforo JT01	Chocolate Brown	Silt
1458572	07N	625643	6952846	1399	-138.5455129	62.68464756	9/21/2016	Yoann Voyer YV01	Chocolate Brown	Silt
1458573	07N	625593	6952846	1390	-138.5464886	62.68466463	9/21/2016	Yoann Voyer YV01	Chocolate Brown	Silt
1457526	07N	625543	6952847	1384	-138.5474635	62.68469067	9/21/2016	Yoann Voyer YV01	Chocolate Brown	Silt
1457527	07N	625493	6952846	1374	-138.54844	62.68469876	9/21/2016	Yoann Voyer YV01	Chocolate Brown	Silt
1457528	07N	625443	6952846	1365	-138.5494157	62.68471581	9/21/2016	Yoann Voyer YV01	Chocolate Brown	Sand
1457529	07N	625391	6952845	1361	-138.5504312	62.68472457	9/21/2016	Yoann Voyer YV01	Light Brown	Silt
1457530	07N	625342	6952846	1360	-138.5513866	62.68475024	9/21/2016	Yoann Voyer YV01	Reddish Yellow	Clay
1457531	07N	625293	6952846	1365	-138.5523428	62.68476693	9/21/2016	Yoann Voyer YV01	Chocolate Brown	Silt
1457532	07N	625242	6952846	1356	-138.553338	62.6847843	9/21/2016	Yoann Voyer YV01	Reddish Yellow	Clay
1458252	07N	625693	6953241	1553	-138.5442434	62.68817262	9/21/2016	Jack Taforo JT01	Chocolate Brown	Silt
1458253	07N	625643	6953248	1540	-138.5452141	62.68825248	9/21/2016	Jack Taforo JT01	Chocolate Brown	Silt
1458254	07N	625590	6953240	1524	-138.5462544	62.68819884	9/21/2016	Jack Taforo JT01	Chocolate Brown	Silt
1457533	07N	625193	6952846	1354	-138.5542942	62.68480098	9/21/2016	Yoann Voyer YV01	Chocolate Brown	Silt
1457534	07N	625142	6952845	1345	-138.5552902	62.68480936	9/21/2016	Yoann Voyer YV01	Chocolate Brown	Silt
1458255	07N	625542	6953242	1504	-138.5471897	62.68823316	9/21/2016	Jack Taforo JT01	Chocolate Brown	Silt
1458256	07N	625492	6953243	1494	-138.5481648	62.68825919	9/21/2016	Jack Taforo JT01	Chocolate Brown	Silt
1458257	07N	625442	6953245	1472	-138.5491391	62.68829418	9/21/2016	Jack Taforo JT01	Dark Brown	Silt
1458258	07N	625391	6953247	1454	-138.5501329	62.6883295	9/21/2016	Jack Taforo JT01	Chocolate Brown	Silt
1458259	07N	625342	6953247	1435	-138.5510893	62.6883462	9/21/2016	Jack Taforo JT01	Chocolate Brown	Silt
1458260	07N	625293	6953248	1415	-138.5520448	62.68837186	9/21/2016	Jack Taforo JT01	Dark Brown	Silt
1458261	07N	625240	6953241	1395	-138.5530844	62.68832714	9/21/2016	Jack Taforo JT01	Chocolate Brown	Gravel

sample_id	moisture	site_slope	depth	horizon	site_veget	ground_cov	quality	note1	note2	mo_ppm
1458562	Damp	Pronounced Slope	30	B	No Tree Cover	Bare Soil	Good	Coarse	Rocky Terrain	1.8
1458563	Damp	Pronounced Slope	30	B	No Tree Cover	Reindeer Moss	Good	Coarse	Rocky Terrain	1.5
1457795	Dry	Pronounced Slope	50	C	No Tree Cover	Frost Boil	Excellent	Rocky Sample	Rocky Terrain	1.7
1458564	Damp	Pronounced Slope	40	B	No Tree Cover	Sphagnum Moss < 30cm	Poor	Fine	Rocky Terrain	9
1457796	Dry	Pronounced Slope	50	C	No Tree Cover	Frost Boil	Excellent	Rocky Sample	Rocky Terrain	3.4
1458565	Dry	Pronounced Slope	30	C	No Tree Cover	Reindeer Moss	Good	Coarse	Rocky Terrain	1
1457797	Damp	Steep	40	C	No Tree Cover	Frost Boil	Excellent	Rocky Terrain	Fine	1.4
1458566	Damp	Steep	20	B	No Tree Cover	Bare Soil	Good	Rocky Terrain		1.7
1458567	Damp	Steep	40	C	No Tree Cover	Bare Soil	Good	Fine	Rocky Terrain	2.8
1457798	Dry	Pronounced Slope	60	C	No Tree Cover	Frost Boil	Good	Rocky Terrain	Fine	0.9
1458568	Damp	Steep	40	C	No Tree Cover	Reindeer Moss	Good	Coarse	Rocky Terrain	2.9
1457799	Dry	Steep	40	B	No Tree Cover	Bare Soil	Good	Organic 10%	Rocky Terrain	1.2
1457799	Dry	Steep	40	B	No Tree Cover	Bare Soil	Good	Organic 10%	Rocky Terrain	1.2
1458569	Damp	Pronounced Slope	40	C	Willows	Sphagnum Moss < 30cm	Good	Coarse	Rocky Terrain	3.9
1457800	Dry	Steep	40	B	No Tree Cover	Bare Soil	Good	Organic 10?	Rocky Terrain	1.3
1458570	Damp	Pronounced Slope	40	C	No Tree Cover	Reindeer Moss	Excellent	Coarse	Rocky Terrain	1.1
1458571	Damp	Pronounced Slope	40	B	Willows	Sphagnum Moss < 30cm	Poor	Rocky Terrain		2.4
1458251	Dry	Flat	40	C	No Tree Cover	Frost Boil	Excellent	Coarse	Rocky Terrain	1.2
1458572	Damp	Pronounced Slope	30	C	Willows	Reindeer Moss	Good	Coarse		3.2
1458573	Damp	Pronounced Slope	30	B	Dwarf Birch	Sphagnum Moss < 30cm	Poor	Rocky Terrain		5
1457526	Damp	Pronounced Slope	50	B	Dwarf Birch	Leaf Cover	Good	Coarse	Rocky Terrain	2.6
1457527	Damp	Pronounced Slope	30	C	Dwarf Birch	Leaf Cover	Good	Sandy	Rocky Terrain	3
1457528	Dry	Pronounced Slope	50	C	Dwarf Birch	Bare Soil	Excellent	Coarse	Rocky Terrain	6
1457529	Damp	Pronounced Slope	40	C	Dwarf Birch	Frost Boil	Good	Sandy		7.2
1457530	Damp	Pronounced Slope	60	C	Dwarf Birch	Thin Moss Cover	Good	Sandy		6.6
1457531	Damp	Subtle Slope	40	B	No Tree Cover	Leaf Cover	Good	Coarse		3.1
1457532	Damp	Subtle Slope	80	C	No Tree Cover	Thin Moss Cover	Excellent	Coarse		48.7
1458252	Dry	Subtle Slope	40	C	No Tree Cover	Frost Boil	Good	Rocky Sample	Rocky Terrain	1.2
1458253	Dry	Pronounced Slope	30	C	No Tree Cover	Reindeer Moss	Good	Rocky Terrain	Rocky Sample	0.9
1458254	Dry	Pronounced Slope	30	C	No Tree Cover	Frost Boil	Good	Organic 10%	Rocky Terrain	1.7
1457533	Damp	Pronounced Slope	50	C	Dwarf Birch	Thin Moss Cover	Good	Coarse	Sandy	3.4
1457534	Damp	Pronounced Slope	50	C	No Tree Cover	Leaf Cover	Good	Coarse		16.4
1458255	Dry	Pronounced Slope	50	C	No Tree Cover	Reindeer Moss	Good	Rocky Sample	Rocky Terrain	1.3
1458256	Dry	Pronounced Slope	30	B	No Tree Cover	Reindeer Moss	Good	Organic 10%	Rocky Terrain	1.4
1458257	Damp	Pronounced Slope	50	B	No Tree Cover	Reindeer Moss	Good	Organic 10%	Fine	2.2
1458258	Damp	Pronounced Slope	70	C	No Tree Cover	Reindeer Moss	Good	Fine	Rocky Terrain	3.3
1458259	Dry	Pronounced Slope	40	C	No Tree Cover	Reindeer Moss	Good	Coarse	Rocky Sample	2
1458260	Damp	Pronounced Slope	40	B	No Tree Cover	Reindeer Moss	Poor	Organic 25%	Fine	1.8
1458261	Dry	Pronounced Slope	40	C	No Tree Cover	Reindeer Moss	Good	Rocky Sample	Rocky Terrain	2.6

sample_id	cu_ppm	pb_ppm	zn_ppm	ag_ppm	ni_ppm	co_ppm	mn_ppm	fe_pct	as_ppm	u_ppm	au_ppb	th_ppm	sr_ppm	cd_ppm
1458562	25.9	9.7	54	0.05	26.2	11	514	3.05	9.4	1.2	2.4	3.5	18	0.2
1458563	23.6	11.7	66	0.05	27	12.6	564	2.99	12.8	1.1	13.4	2.1	17	0.2
1457795	24.6	14.8	54	0.1	21.2	9.7	527	2.98	16.4	1.2	44.6	2.6	26	0.1
1458564	34.4	21.7	75	0.05	30.5	15.5	577	3.88	22.4	2.6	12.8	1	23	0.2
1457796	27.6	14.8	55	0.5	22	9.1	446	2.91	114.7	1.9	5.6	2.6	21	0.05
1458565	20.8	11.9	46	0.1	17.2	12.7	501	2.68	11.4	2.2	3.8	4.5	67	0.2
1457797	22.7	8.6	54	0.05	27.1	9.6	495	3.11	14.1	0.7	3	2.3	19	0.1
1458566	25.3	12.6	66	0.1	24.3	11.1	701	3.29	10.7	1.4	9.1	1.4	14	0.3
1458567	32.4	12.4	58	0.2	25.7	14.9	584	3.55	15.2	3.3	128.6	6.8	45	0.3
1457798	24.9	7.2	55	0.1	26.3	10.6	494	2.88	8.6	1.6	2.7	5.5	23	0.1
1458568	31.2	15	30	0.3	6.7	13	1425	3.31	13.3	4.5	46.9	11.3	98	0.1
1457799	19.8	8.6	62	0.05	22.4	9.2	487	2.93	8.6	0.9	3.5	1.9	20	0.2
1457799	20.2	8.6	63	0.05	23.5	9.6	488	2.98	8.7	1	4.2	1.9	20	0.2
1458569	38.6	18.2	59	0.5	23.8	13.7	732	3.09	22.4	3.5	11.7	3.6	47	0.3
1457800	20.3	8.3	65	0.05	23.3	9.5	498	2.83	8.6	1	1.5	1.9	22	0.2
1458570	23.3	12.8	51	0.1	24.8	11.4	517	3.26	16.3	1.2	33.4	3.8	18	0.2
1458571	25.1	29.4	53	0.6	17	11.1	985	2.63	24.4	3.7	10.3	1	59	0.7
1458251	26.1	22.7	52	0.1	23.9	10.2	347	2.84	9.8	1.3	6.2	4.5	25	0.1
1458572	58	51.9	85	0.5	24.8	15.2	600	3.93	42.4	2.7	218	4.6	94	0.6
1458573	21.3	33.5	50	0.5	14.9	6.8	241	3.32	34.5	1.1	18	3.7	39	0.5
1457526	33.7	22.8	48	0.3	20.9	10.4	321	3.71	21.2	2	23.3	3.7	39	0.3
1457527	26.3	19.9	50	0.4	20.3	15.4	497	3.3	30.5	3	27.7	5.7	98	0.3
1457528	21	15.3	43	0.2	17.6	12.1	402	3.49	14.6	4.2	35.3	8.4	49	0.3
1457529	19.5	80	126	0.7	17.9	11.4	610	3.26	13.1	4.5	15.4	9.8	68	2.2
1457530	16.5	42.7	162	0.6	18.2	7.7	531	3.75	16.9	4.4	6.6	10.7	31	0.8
1457531	24.2	13.5	57	0.7	22.6	10.5	442	3.17	17.5	2.1	6	2.7	25	0.2
1457532	16.7	137.4	110	1.1	6.1	16.9	851	5.94	19.4	6.7	26.4	11.7	31	1.1
1458252	25.7	167	75	0.3	25.3	9.4	393	2.54	9.9	1.3	6	4.5	36	0.4
1458253	23.2	24.3	51	0.4	25.6	12.5	506	2.67	17.5	1.7	356.6	5.3	37	0.2
1458254	24.7	22.5	55	0.1	23.1	8.9	401	3.19	13.9	1	11	2.1	16	0.2
1457533	27.7	13.3	50	0.6	21	11.9	418	3.1	12.7	3.4	42.8	4.3	41	0.3
1457534	31.7	16.2	55	1.5	21.9	11.8	440	3.26	18.4	3.7	18.5	5	38	0.2
1458255	36.9	28.2	58	1	25.6	11.7	584	2.77	18.6	1.7	116.1	5.1	29	0.3
1458256	22.9	29.5	101	0.5	18.4	8.3	440	3.05	72.6	1	28.8	2.1	37	1.5
1458257	18.7	41.2	100	2.1	13.4	6	213	2.2	163.2	1.4	11.8	0.9	41	2.2
1458258	37.9	67.7	142	3.1	21.6	14.1	733	3.23	310.7	4.1	30.2	2.4	62	1.6
1458259	24	20	66	0.3	21	12.6	625	3.38	50.6	2.1	10.6	4.3	81	0.6
1458260	16.4	10.9	34	0.3	11.3	4	94	1.67	13.5	0.8	5.9	0.2	19	0.3
1458261	27.1	14.2	69	0.3	24.1	12	562	3.08	28.3	2.2	10.3	3.8	54	0.5

sample_id	sb_ppm	v_ppm	bi_ppm	ca_pct	p_pct	la_ppm	cr_ppm	mg_pct	ti_pct	ba_ppm	b_ppm	al_pct	na_pct	k_pct	w_ppm
1458562	0.4	73	1.3	0.27	0.042	9	36	0.69	0.097	98	2	2.17	0.012	0.09	0.2
1458563	0.5	67	0.9	0.2	0.052	10	37	0.56	0.075	79	2	2.31	0.009	0.06	0.3
1457795	0.6	71	1.4	0.23	0.054	13	33	0.57	0.068	93	2	1.82	0.013	0.07	0.2
1458564	0.8	81	0.5	0.2	0.066	10	39	0.63	0.052	93	3	2.35	0.009	0.07	0.3
1457796	0.9	64	2.4	0.2	0.043	14	34	0.59	0.055	96	2	2.35	0.01	0.08	0.2
1458565	0.5	57	0.5	0.81	0.07	12	25	0.58	0.048	136	1	2.58	0.039	0.09	0.2
1457797	0.6	79	0.5	0.24	0.04	11	36	0.56	0.089	93	2	2.01	0.014	0.06	0.1
1458566	0.6	81	0.4	0.18	0.073	9	35	0.48	0.069	90	2	1.94	0.01	0.06	0.2
1458567	0.5	73	6	0.42	0.085	12	32	0.62	0.091	108	2	1.97	0.02	0.09	0.4
1457798	0.5	71	0.5	0.29	0.043	14	33	0.67	0.116	111	2	2.22	0.018	0.09	0.2
1458568	0.5	31	4.5	0.93	0.063	34	8	0.35	0.001	181	0.5	2.65	0.034	0.1	0.1
1457799	0.6	67	0.6	0.19	0.046	8	31	0.52	0.073	100	2	1.92	0.01	0.07	0.2
1457799	0.5	67	0.5	0.19	0.049	8	33	0.52	0.076	99	2	1.88	0.01	0.06	0.2
1458569	0.7	66	1.6	0.53	0.088	15	32	0.62	0.061	148	2	2.24	0.019	0.11	0.2
1457800	0.5	64	0.5	0.2	0.051	9	32	0.53	0.072	107	2	1.88	0.012	0.07	0.2
1458570	0.5	74	1.7	0.22	0.054	10	35	0.56	0.084	90	2	2.07	0.01	0.07	0.2
1458571	1	54	2.1	0.49	0.084	18	28	0.44	0.027	212	2	1.91	0.009	0.1	0.1
1458251	0.6	66	0.6	0.27	0.058	15	39	0.63	0.098	89	2	2.42	0.013	0.08	0.1
1458572	1.7	66	9	0.51	0.089	11	29	0.63	0.058	124	2	2.26	0.01	0.12	0.2
1458573	1	81	2.8	0.21	0.034	9	26	0.32	0.072	78	2	1.55	0.007	0.09	0.1
1457526	0.8	77	3.3	0.27	0.048	10	32	0.51	0.086	97	2	2.46	0.011	0.08	0.2
1457527	1	59	2.8	0.43	0.065	12	28	0.5	0.065	102	2	2.27	0.013	0.09	0.2
1457528	0.9	56	2.3	0.33	0.073	15	25	0.59	0.05	127	1	1.84	0.02	0.1	0.2
1457529	1.6	46	0.9	0.5	0.09	16	25	0.44	0.043	468	2	1.38	0.016	0.12	0.1
1457530	2.4	53	1	0.64	0.113	31	49	0.86	0.062	478	2	2.12	0.011	0.16	0.05
1457531	1.3	65	0.6	0.25	0.073	11	36	0.61	0.072	95	3	2.23	0.011	0.08	0.2
1457532	3.2	31	1.5	0.27	0.068	23	16	0.32	0.015	234	3	1.44	0.006	0.08	0.1
1458252	1.3	66	0.8	0.33	0.065	12	34	0.54	0.086	82	2	2.01	0.017	0.07	0.2
1458253	1	67	10.3	0.35	0.063	13	31	0.52	0.083	84	2	1.93	0.016	0.06	0.3
1458254	0.8	81	3.7	0.18	0.044	10	37	0.45	0.076	65	2	1.75	0.009	0.05	0.3
1457533	0.7	67	1.3	0.33	0.055	13	33	0.6	0.089	82	2	2.46	0.014	0.08	0.2
1457534	1.8	68	1.3	0.3	0.063	13	36	0.68	0.088	86	2	2.64	0.013	0.08	0.2
1458255	1	64	4.3	0.36	0.069	10	32	0.58	0.084	97	2	1.73	0.014	0.07	0.4
1458256	28.4	69	6.5	0.27	0.051	10	32	0.45	0.076	88	1	1.41	0.01	0.06	0.3
1458257	15.3	57	3	0.25	0.06	8	26	0.34	0.052	91	3	1.44	0.015	0.05	0.2
1458258	30.2	67	4.5	0.48	0.088	14	35	0.59	0.051	116	2	2.22	0.018	0.09	0.2
1458259	4.5	69	3.6	0.37	0.06	13	32	0.62	0.072	105	2	1.86	0.013	0.07	0.2
1458260	1.3	45	0.6	0.16	0.07	6	22	0.17	0.03	59	2	0.9	0.016	0.04	0.1
1458261	2.1	71	0.9	0.38	0.07	15	33	0.62	0.075	102	2	2.13	0.016	0.07	0.2

sample_id	hg_ppm	tl_ppm	sc_ppm	s_pct	se_ppm	ga_ppm	te_ppm	sample_typ	analysis_m	shipment_i	job_number
1458562	0.03	0.2	3.8	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458563	0.06	0.1	3	0.05	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457795	0.03	0.1	3.1	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458564	0.06	0.2	2.9	0.08	0.7	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457796	0.04	0.2	3.5	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458565	0.03	0.2	3.2	0.025	0.25	5	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457797	0.03	0.1	3.4	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458566	0.06	0.2	2.7	0.06	0.25	8	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458567	0.03	0.2	3.7	0.025	0.25	6	0.5	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457798	0.02	0.2	4.3	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458568	0.02	0.3	3.8	0.025	0.25	5	0.4	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457799	0.05	0.1	2.9	0.05	0.25	6	0.1	REP	AQ201	ROY2016-10-14	WHI16000371
1457799	0.04	0.1	2.9	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458569	0.07	0.2	4.2	0.06	0.7	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457800	0.06	0.1	2.9	0.06	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458570	0.05	0.1	3.3	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458571	0.05	0.2	2.6	0.09	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458251	0.04	0.1	4.8	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458572	0.04	0.3	3.6	0.025	0.6	7	0.8	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458573	0.05	0.2	2.6	0.025	0.25	9	0.3	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457526	0.05	0.2	3.4	0.025	0.25	8	0.3	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457527	0.06	0.2	3	0.05	0.25	6	0.4	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457528	0.01	0.1	3.6	0.1	0.6	5	0.2	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457529	0.04	0.2	4.4	0.1	0.7	4	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457530	0.04	0.2	5.5	0.025	0.7	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457531	0.04	0.1	3.8	0.025	0.25	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457532	0.05	0.2	2.8	0.08	2.1	4	0.2	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458252	0.05	0.1	3.4	0.025	0.25	5	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458253	0.04	0.1	3	0.025	0.25	5	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458254	0.06	0.1	2.8	0.025	0.25	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457533	0.03	0.2	4.2	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457534	0.05	0.2	4.5	0.025	0.25	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458255	0.03	0.1	3.4	0.025	0.25	5	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458256	0.05	0.1	2.3	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458257	0.07	0.2	2.2	0.07	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458258	0.09	0.2	3.7	0.09	0.5	7	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458259	0.04	0.2	3.4	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458260	0.06	0.1	1.2	0.09	0.25	5	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458261	0.03	0.2	3.7	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371

sample_id	utm_zone	utm_eastin	utm_northi	elevation_	longitude	latitude	sample_dat	technician	colour	texture
1458574	07N	625092	6952845	1334	-138.5562659	62.68482636	9/21/2016	Yoann Voyer YV01	Chocolate Brown	Silt
1458262	07N	625191	6953244	1376	-138.5540385	62.68837072	9/21/2016	Jack Taforo JT01	Chocolate Brown	Silt
1458575	07N	625092	6952845	1332	-138.5562659	62.68482636	9/21/2016	Yoann Voyer YV01	Chocolate Brown	Silt
1458263	07N	625139	6953241	1352	-138.5550556	62.68836152	9/21/2016	Jack Taforo JT01	Chocolate Brown	Silt
1458264	07N	625090	6953244	1331	-138.5560097	62.68840509	9/21/2016	Jack Taforo JT01	Chocolate Brown	Silt
1457502	07N	625784	6952445	1285	-138.5430597	62.68100344	9/21/2016	Mark Severinsen MS01	Chocolate Brown	Silt

sample_id	moisture	site_slope	depth	horizon	site_veget	ground_cov	quality	note1	note2	mo_ppm
1458574	Damp	Pronounced Slope	40	B	No Tree Cover	Reindeer Moss	Good	Sandy		5.4
1458262	Dry	Steep	40	B	No Tree Cover	Sphagnum Moss < 30cm	Good	Organic 10%	Fine	5.1
1458575	Damp	Pronounced Slope	40	B	No Tree Cover	Reindeer Moss	Good	Sandy		5.2
1458263	Dry	Steep	80	C	No Tree Cover	Reindeer Moss	Good	Rocky Sample	Organic 10%	1.8
1458264	Dry	Pronounced Slope	60	C	No Tree Cover	Reindeer Moss	Good	Rocky Sample	Rocky Terrain	3.3
1457502	Damp	Pronounced Slope	30	B	Dwarf Birch	Thin Moss Cover	Good	Fine	Mud	4.1

sample_id	cu_ppm	pb_ppm	zn_ppm	ag_ppm	ni_ppm	co_ppm	mn_ppm	fe_pct	as_ppm	u_ppm	au_ppb	th_ppm	sr_ppm	cd_ppm
1458574	20.5	17.7	44	0.3	16.5	8.2	303	3.46	17.3	1.1	11.6	3.8	23	0.2
1458262	27.6	141.6	281	0.7	14.5	9.5	687	3.6	59.6	2.1	7.9	5.1	104	2.8
1458575	18.6	17.4	36	0.4	13.8	6.6	229	3.25	16.2	1.1	8.4	3.8	28	0.2
1458263	27.3	14.2	75	0.2	26.4	11.1	688	3.01	15.3	1.4	11.6	3.1	37	0.6
1458264	28.4	22	64	0.3	23	13.7	683	3.22	20.2	2.2	6.2	4.8	74	0.4
1457502	35.8	22.5	46	0.2	20.6	22.4	621	3.84	24.2	10.2	13.7	12.3	66	0.8

sample_id	sb_ppm	v_ppm	bi_ppm	ca_pct	p_pct	la_ppm	cr_ppm	mg_pct	ti_pct	ba_ppm	b_ppm	al_pct	na_pct	k_pct	w_ppm
1458574	1	74	1.6	0.19	0.045	8	30	0.39	0.089	72	2	2.05	0.009	0.06	0.2
1458262	4.2	75	2.8	0.31	0.047	14	26	0.47	0.042	176	2	2.2	0.012	0.09	0.2
1458575	1.2	79	1.5	0.2	0.036	8	29	0.31	0.087	73	1	2.11	0.008	0.05	0.2
1458263	1.1	69	0.8	0.38	0.098	13	34	0.6	0.079	105	3	2.1	0.018	0.06	0.2
1458264	1.2	67	0.8	0.75	0.067	11	32	0.55	0.068	111	1	3.04	0.016	0.09	0.1
1457502	0.7	67	2.9	0.37	0.061	32	30	0.58	0.046	231	1	3.78	0.025	0.09	0.2

sample_id	hg_ppm	tl_ppm	sc_ppm	s_pct	se_ppm	ga_ppm	te_ppm	sample_typ	analysis_m	shipment_i	job_number
1458574	0.05	0.1	3.2	0.025	0.25	9	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458262	0.06	0.3	3.3	0.025	0.25	9	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458575	0.05	0.2	3	0.025	0.25	9	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458263	0.05	0.1	3.4	0.025	0.25	6	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1458264	0.05	0.2	3.6	0.025	0.25	8	0.1	SOIL	AQ201	ROY2016-10-14	WHI16000371
1457502	0.04	0.4	5.3	0.025	0.25	8	0.3	SOIL	AQ201	ROY2016-10-14	WHI16000371

Appendix C: RAB Samples Assay Certificate

Hole-ID	Easting	Northing	Elevation	Azimuth	Dip	Depth_m
ROYRAB16-03	624316	6950888	1302	180	55	88.392

SampleID	From(ft)	To(ft)	SampleID	From(ft)	To(ft)
1419501	0	5	1419533	145	150
1419502	5	10	1419534	150	155
1419503	10	15	1419535	155	160
1419504	15	20	1419536	160	165
1419505	20	25	1419537	165	170
1419506	25	30	1419538	170	175
1419507	30	35	1419540	175	180
1419508	35	40	1419541	180	185
1419510	40	45	1419542	185	190
1419511	45	50	1419543	190	195
1419512	50	55	1419544	195	200
1419513	55	60	1419545	200	205
1419514	60	65	1419546	205	210
1419515	65	70	1419547	210	215
1419516	70	75	1419548	215	220
1419517	75	80	1419550	220	225
1419518	80	85	1419551	225	230
1419520	85	90	1419552	230	235
1419521	90	95	1419553	235	240
1419522	95	100	1419554	240	245
1419523	100	105	1419555	245	250
1419524	105	110	1419556	250	255
1419525	110	115	1419557	255	260
1419526	115	120	1419558	260	265
1419527	120	125	1419560	265	270
1419528	125	130	1419561	270	275
1419530	130	135	1419562	275	280
1419531	135	140	1419563	280	285
1419532	140	145	1419564	285	290

BUREAU VERITAS MINERAL LABORATORIES Canada

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **0890763 B.C. Ltd**
1600-609 Granville Street
Vancouver British Columbia V7Y 1C3 Canada

Submitted By: Bart Jaworski
Receiving Lab: Canada-Whitehorse
Received: August 24, 2016
Report Date: September 15, 2016
Page: 1 of 4

CERTIFICATE OF ANALYSIS WHI16000215.1

CLIENT JOB INFORMATION

Project: ROY
Shipment ID: ROY-2016-08-23-Rock
P.O. Number
Number of Samples: 64

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

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
PRP70-250	64	Crush, split and pulverize 250 g rock to 200 mesh			WHI
FA430	64	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
AQ200	64	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	64	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

Invoice To: 0890763 B.C. Ltd
1600-609 Granville Street
Vancouver British Columbia V7Y 1C3
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Geochemical Laboratory 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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Project: ROY
Report Date: September 15, 2016

CERTIFICATE OF ANALYSIS WHI16000215.1

	Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
1419551	Rock	1.89	<0.005	2.5	6.6	7.5	32	<0.1	3.8	4.5	480	2.25	9.6	2.1	13.2	32	<0.1	0.5	0.2	34	0.77
1419552	Rock	1.16	0.031	2.3	8.0	7.3	14	<0.1	2.2	1.6	172	0.81	12.1	2.0	14.9	15	<0.1	0.7	2.3	5	0.54
1419553	Rock	1.51	0.027	2.9	19.7	11.8	19	0.2	2.1	5.4	208	1.11	50.1	9.9	15.0	16	0.2	1.7	3.1	3	0.77
1419554	Rock	1.59	0.042	2.4	16.1	49.8	28	0.9	2.0	2.7	219	1.08	117.7	18.2	19.5	14	0.5	3.8	20.4	4	0.74
1419555	Rock	1.77	0.005	1.9	9.4	8.8	12	<0.1	1.8	2.8	160	0.77	19.1	1.7	15.7	15	<0.1	0.4	0.5	2	0.53
1419556	Rock	1.52	0.005	2.2	22.6	11.6	32	0.1	3.5	6.1	457	2.08	32.5	4.4	16.1	26	0.2	1.6	1.1	23	1.12
1419557	Rock	1.97	0.032	1.7	26.8	11.0	30	0.1	2.5	8.4	464	2.07	18.7	4.3	13.9	32	0.2	0.9	1.1	19	1.40
1419558	Rock	2.50	0.070	2.1	58.2	15.3	37	0.2	2.9	15.8	1235	3.10	136.7	61.6	14.8	35	0.3	2.1	14.6	14	4.16
1419559	Rock	2.65	0.019	1.6	44.2	14.6	32	0.2	2.6	11.3	971	2.91	80.0	7.1	15.5	31	0.3	1.7	18.9	14	3.11
1419560	Rock	1.96	0.008	2.0	15.8	10.7	31	<0.1	2.7	5.8	723	1.73	32.9	8.2	11.5	42	0.1	0.6	0.7	15	2.32
1419561	Rock	3.38	0.024	1.9	31.0	11.0	40	0.2	4.0	4.9	534	2.42	25.4	9.0	13.4	33	0.3	1.0	0.7	31	1.18
1419562	Rock	1.91	<0.005	26.7	15.0	8.7	33	<0.1	3.9	4.5	448	2.19	8.9	2.3	16.2	58	<0.1	0.6	0.5	29	1.00
1419563	Rock	2.14	<0.005	1.9	4.2	5.7	28	<0.1	3.9	3.4	419	2.02	5.6	<0.5	15.3	37	<0.1	0.5	0.1	37	0.67
1419564	Rock	1.74	0.006	2.0	8.5	6.5	32	<0.1	4.7	4.8	499	2.33	8.8	1.1	15.5	65	<0.1	0.6	0.3	39	0.93
1419511	Rock	2.40	<0.005	0.6	4.3	13.9	42	<0.1	4.3	8.5	602	2.14	6.8	2.1	13.8	59	0.2	0.2	1.6	21	2.08
1419512	Rock	1.87	0.007	1.0	5.6	9.7	42	<0.1	4.3	5.4	453	2.36	7.5	0.9	13.7	98	0.1	0.7	0.3	41	0.88
1419513	Rock	2.02	<0.005	1.0	5.2	9.6	39	<0.1	4.0	4.8	506	2.43	6.6	1.0	12.3	46	0.1	0.6	0.4	37	1.15
1419514	Rock	1.75	<0.005	0.7	5.1	7.0	38	<0.1	4.0	4.3	577	2.20	4.8	<0.5	14.0	46	<0.1	0.3	0.5	25	1.86
1419515	Rock	2.06	<0.005	0.7	2.4	6.1	33	<0.1	3.7	3.4	487	1.94	4.2	<0.5	15.8	39	<0.1	0.3	0.2	25	1.40
1419516	Rock	1.85	<0.005	0.7	3.5	6.9	13	<0.1	1.8	1.5	136	0.78	3.3	<0.5	22.4	13	<0.1	0.4	0.2	5	0.26
1419517	Rock	2.19	<0.005	0.8	3.1	6.6	38	<0.1	4.7	4.5	599	2.57	5.0	<0.5	26.6	82	0.1	0.4	0.2	34	1.48
1419518	Rock	2.57	<0.005	0.8	4.0	5.5	38	<0.1	4.0	3.8	631	2.46	5.0	<0.5	34.0	57	<0.1	0.4	0.2	27	1.88
1419519	Rock	2.38	<0.005	0.8	4.3	5.4	35	<0.1	3.3	3.6	611	2.32	4.4	0.6	32.0	56	<0.1	0.4	0.2	25	1.84
1419520	Rock	2.56	<0.005	1.6	4.0	7.6	54	<0.1	4.8	2.5	537	2.47	5.6	<0.5	14.4	55	0.1	0.6	0.2	37	1.26
1419501	Rock	0.59	0.009	1.7	19.2	33.4	65	0.9	9.7	6.5	906	2.19	89.6	4.9	5.9	18	0.4	1.5	2.9	27	0.41
1419502	Rock	0.40	0.014	1.1	17.5	37.0	65	0.9	10.9	6.7	786	2.15	49.4	6.2	11.0	26	0.7	0.9	5.6	28	0.73
1419503	Rock	1.33	0.009	0.6	9.0	14.1	53	0.2	7.7	5.0	591	2.23	19.8	2.2	14.6	44	0.2	0.4	2.9	30	1.64
1419504	Rock	2.43	0.014	0.6	7.1	15.3	49	0.1	5.4	5.2	650	2.53	16.5	18.7	13.6	42	0.3	0.4	3.0	32	2.45
1419505	Rock	2.26	0.016	0.5	5.4	11.0	50	<0.1	5.2	6.8	655	2.62	12.5	1.7	13.3	49	0.2	0.4	1.4	33	1.89
1419506	Rock	2.42	0.007	0.6	9.1	17.4	42	0.2	4.6	5.4	567	2.16	27.9	3.5	14.5	52	0.2	0.3	12.0	29	1.62

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Project: ROY
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CERTIFICATE OF ANALYSIS WHI16000215.1

	Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1419551	Rock	0.047	13	14	0.48	134	0.105	<20	1.03	0.087	0.35	2.0	<0.01	2.8	0.4	0.07	4	<0.5	<0.2
1419552	Rock	0.005	3	9	0.09	31	0.014	<20	0.37	0.059	0.18	3.0	<0.01	0.6	0.1	<0.05	1	<0.5	<0.2
1419553	Rock	0.003	3	9	0.08	32	0.007	<20	0.41	0.055	0.20	2.8	<0.01	0.4	0.2	0.34	1	<0.5	<0.2
1419554	Rock	0.004	4	10	0.10	25	0.007	<20	0.39	0.049	0.16	3.3	<0.01	0.4	0.1	0.12	2	<0.5	<0.2
1419555	Rock	0.002	4	10	0.06	27	0.005	<20	0.36	0.058	0.19	3.3	<0.01	0.3	<0.1	0.10	1	<0.5	<0.2
1419556	Rock	0.041	13	12	0.38	51	0.025	<20	0.93	0.050	0.18	1.9	<0.01	2.0	0.3	0.23	5	<0.5	<0.2
1419557	Rock	0.031	10	9	0.31	46	0.008	<20	0.82	0.042	0.17	1.4	<0.01	1.7	0.2	0.34	4	<0.5	<0.2
1419558	Rock	0.008	5	8	0.26	53	0.004	<20	0.87	0.034	0.22	6.8	<0.01	2.2	0.2	0.72	4	<0.5	<0.2
1419559	Rock	0.006	5	7	0.23	41	0.005	<20	0.72	0.031	0.17	5.7	<0.01	1.6	0.2	0.56	3	<0.5	<0.2
1419560	Rock	0.025	9	11	0.27	65	0.006	<20	0.82	0.041	0.20	1.6	<0.01	1.8	0.2	0.18	3	<0.5	<0.2
1419561	Rock	0.049	15	12	0.45	94	0.065	<20	1.05	0.053	0.23	1.6	<0.01	2.4	0.3	0.25	5	<0.5	<0.2
1419562	Rock	0.041	14	13	0.43	128	0.077	<20	0.97	0.074	0.29	1.9	<0.01	2.2	0.3	0.15	4	<0.5	<0.2
1419563	Rock	0.045	18	12	0.48	207	0.128	<20	0.95	0.084	0.37	1.8	<0.01	2.9	0.4	<0.05	4	<0.5	<0.2
1419564	Rock	0.052	17	14	0.54	178	0.126	<20	1.21	0.094	0.35	1.6	<0.01	2.9	0.4	0.07	4	<0.5	<0.2
1419511	Rock	0.067	24	8	0.39	89	0.006	<20	1.13	0.029	0.24	12.6	<0.01	1.9	0.4	<0.05	4	<0.5	<0.2
1419512	Rock	0.067	15	11	0.49	153	0.100	<20	1.27	0.073	0.17	2.3	<0.01	2.7	0.2	<0.05	6	<0.5	<0.2
1419513	Rock	0.066	15	10	0.46	91	0.068	<20	1.18	0.048	0.19	1.2	<0.01	2.5	0.2	<0.05	5	<0.5	<0.2
1419514	Rock	0.064	26	9	0.38	102	0.006	<20	1.22	0.045	0.27	0.4	<0.01	2.4	0.4	<0.05	5	<0.5	<0.2
1419515	Rock	0.059	17	9	0.37	76	0.015	<20	1.06	0.043	0.19	0.5	<0.01	2.3	0.3	<0.05	5	<0.5	<0.2
1419516	Rock	0.003	4	4	0.10	43	0.009	<20	0.37	0.058	0.14	1.3	<0.01	0.6	<0.1	<0.05	1	<0.5	<0.2
1419517	Rock	0.072	15	12	0.55	125	0.032	<20	1.50	0.040	0.20	0.5	<0.01	3.1	0.3	<0.05	5	<0.5	<0.2
1419518	Rock	0.064	17	9	0.51	78	0.019	<20	1.66	0.041	0.21	0.3	<0.01	2.7	0.3	<0.05	6	<0.5	<0.2
1419519	Rock	0.055	16	8	0.48	70	0.015	<20	1.57	0.034	0.18	0.3	<0.01	2.5	0.3	<0.05	6	<0.5	<0.2
1419520	Rock	0.063	12	12	0.49	78	0.065	<20	1.37	0.053	0.20	1.0	<0.01	2.5	0.3	<0.05	5	<0.5	<0.2
1419501	Rock	0.076	19	14	0.22	161	0.016	<20	1.16	0.016	0.21	2.1	0.01	2.2	0.3	<0.05	3	<0.5	<0.2
1419502	Rock	0.069	23	14	0.29	181	0.020	<20	1.19	0.029	0.26	2.9	0.01	2.5	0.3	<0.05	3	<0.5	<0.2
1419503	Rock	0.071	26	11	0.40	116	0.014	<20	1.20	0.032	0.21	0.8	<0.01	2.4	0.3	<0.05	4	<0.5	<0.2
1419504	Rock	0.071	25	10	0.49	110	0.007	<20	1.46	0.034	0.21	0.5	<0.01	3.0	0.2	<0.05	6	<0.5	<0.2
1419505	Rock	0.070	28	9	0.48	93	0.006	<20	1.47	0.035	0.24	0.6	<0.01	3.7	0.3	<0.05	6	<0.5	<0.2
1419506	Rock	0.070	26	10	0.39	105	0.008	<20	1.21	0.048	0.26	0.8	<0.01	2.4	0.3	<0.05	5	<0.5	<0.2

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Project: ROY
Report Date: September 15, 2016

CERTIFICATE OF ANALYSIS WHI16000215.1

	Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
1419507	Rock	2.21	0.011	0.5	7.1	10.9	45	<0.1	4.1	7.9	609	2.38	15.5	3.5	14.1	45	0.2	0.2	0.9	29	1.29
1419508	Rock	2.15	0.042	0.6	6.1	7.2	40	<0.1	4.4	5.0	508	2.40	11.4	<0.5	13.4	73	0.1	0.4	0.4	33	1.75
1419509	Rock	2.89	0.007	0.7	9.4	7.4	44	<0.1	4.8	5.8	555	2.81	14.6	2.1	13.8	72	<0.1	0.4	0.4	32	1.82
1419510	Rock	2.37	0.008	0.5	4.2	16.2	46	0.2	4.8	12.2	633	2.42	17.4	4.7	14.0	75	0.2	0.3	0.5	29	1.86
1419531	Rock	2.22	0.168	1.3	7.9	8.5	33	0.1	4.1	7.1	609	2.61	18.9	6.6	12.5	74	<0.1	1.0	0.9	31	1.42
1419532	Rock	2.57	0.025	1.4	7.7	7.5	34	<0.1	3.9	6.7	578	2.83	20.6	7.6	11.5	71	<0.1	0.5	0.5	38	1.12
1419533	Rock	1.81	0.025	1.2	15.4	6.9	25	0.1	4.4	12.3	532	2.28	45.6	17.5	13.3	32	<0.1	0.7	3.4	23	1.52
1419534	Rock	1.65	0.750	1.7	23.5	16.8	33	0.7	3.4	17.8	628	4.55	772.5	304.3	19.1	39	0.3	1.6	11.6	29	1.50
1419535	Rock	2.17	0.066	1.3	9.0	7.9	35	0.1	4.3	11.6	683	3.20	103.3	41.4	18.2	47	<0.1	0.4	1.2	38	1.81
1419536	Rock	1.84	0.020	1.2	2.4	5.2	36	<0.1	4.0	4.3	622	2.71	11.0	3.4	12.9	42	<0.1	0.5	0.2	37	1.12
1419537	Rock	1.69	<0.005	1.2	2.2	5.9	27	<0.1	3.4	3.8	453	2.13	5.2	1.1	13.5	30	<0.1	0.5	0.1	36	0.61
1419538	Rock	1.72	0.015	1.4	3.3	7.0	37	<0.1	4.9	10.4	583	2.59	11.1	5.4	12.1	49	<0.1	0.5	0.3	41	0.93
1419539	Rock	2.01	0.009	1.2	4.3	7.3	33	<0.1	4.2	12.0	596	2.40	13.1	5.6	10.2	49	<0.1	0.6	0.3	34	1.02
1419540	Rock	1.35	0.009	1.3	6.7	11.6	34	<0.1	4.2	7.8	545	2.62	21.9	3.6	11.9	77	<0.1	0.5	0.3	44	0.88
1419521	Rock	2.10	<0.005	1.2	3.7	8.9	43	<0.1	4.7	4.6	545	2.44	5.1	<0.5	10.8	54	<0.1	0.6	0.2	40	0.91
1419522	Rock	2.31	0.009	0.8	3.2	7.0	39	<0.1	4.4	4.9	542	2.59	4.7	<0.5	12.6	256	0.1	0.6	0.2	45	1.06
1419523	Rock	2.42	0.008	1.2	3.7	6.8	34	<0.1	3.8	2.4	472	2.30	4.9	0.8	12.4	85	0.1	0.7	<0.1	39	0.84
1419524	Rock	1.97	<0.005	1.0	3.6	6.9	40	<0.1	4.4	4.0	578	2.66	6.0	0.5	15.2	65	<0.1	0.7	0.4	44	0.83
1419525	Rock	2.16	0.006	1.0	3.4	7.4	41	<0.1	3.9	5.6	564	2.81	7.8	0.8	14.3	66	0.1	0.8	0.2	42	1.04
1419526	Rock	1.89	0.006	1.1	2.9	7.8	38	<0.1	4.2	3.9	530	2.56	3.9	<0.5	10.5	163	<0.1	0.5	0.1	44	1.15
1419527	Rock	2.38	0.010	1.1	2.6	7.4	35	<0.1	4.3	2.8	516	2.40	4.6	4.6	12.1	94	<0.1	0.5	0.1	41	1.00
1419528	Rock	2.39	0.008	2.4	6.1	10.3	38	0.1	4.7	6.1	543	2.83	12.4	6.2	10.4	259	0.1	1.5	2.6	31	1.62
1419529	Rock	1.80	0.012	2.5	5.5	10.5	39	0.1	5.0	6.0	544	2.93	11.5	6.8	10.7	244	0.1	1.6	3.0	31	1.70
1419530	Rock	2.76	0.014	1.8	21.3	15.9	37	0.3	4.2	15.0	602	2.73	39.5	10.3	15.1	157	0.2	1.9	3.3	31	2.27
1419541	Rock	1.49	0.005	1.1	2.9	5.4	30	<0.1	3.9	4.6	430	2.32	4.5	<0.5	11.8	39	<0.1	0.5	0.1	42	0.63
1419542	Rock	1.82	0.007	1.2	3.0	5.3	34	<0.1	3.8	4.7	485	2.47	4.4	<0.5	12.7	35	<0.1	0.4	<0.1	47	0.71
1419543	Rock	2.01	0.008	1.4	3.0	5.6	32	<0.1	3.7	4.7	477	2.31	6.2	2.0	11.8	51	<0.1	0.5	0.1	41	0.80
1419544	Rock	2.14	0.011	1.3	7.5	6.2	39	<0.1	4.2	8.5	585	2.77	24.6	4.5	12.8	47	<0.1	0.5	0.3	43	0.79
1419545	Rock	1.91	<0.005	2.2	4.7	5.0	42	<0.1	5.7	6.2	527	2.63	5.5	1.1	13.6	34	<0.1	0.5	0.1	44	0.69
1419546	Rock	3.06	0.006	2.4	6.9	5.8	50	<0.1	6.0	6.6	556	2.43	6.2	<0.5	13.3	28	<0.1	0.5	<0.1	46	0.56

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	Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1419507	Rock	0.073	29	8	0.42	118	0.007	<20	1.25	0.041	0.24	0.3	<0.01	2.6	0.3	<0.05	5	<0.5	<0.2
1419508	Rock	0.064	20	8	0.42	195	0.023	<20	1.71	0.139	0.33	3.0	<0.01	2.9	0.5	<0.05	6	<0.5	<0.2
1419509	Rock	0.069	21	8	0.44	179	0.020	<20	1.65	0.119	0.32	5.0	<0.01	2.9	0.5	<0.05	6	<0.5	<0.2
1419510	Rock	0.065	21	7	0.46	143	0.006	<20	1.39	0.056	0.28	34.3	<0.01	2.6	0.4	<0.05	5	<0.5	<0.2
1419531	Rock	0.057	15	9	0.46	71	0.025	<20	1.30	0.042	0.19	0.8	<0.01	2.5	0.4	0.06	6	<0.5	<0.2
1419532	Rock	0.057	14	10	0.50	89	0.049	<20	1.26	0.051	0.22	0.9	<0.01	3.2	0.3	0.08	5	<0.5	<0.2
1419533	Rock	0.056	14	9	0.33	51	0.009	<20	0.96	0.042	0.18	1.0	<0.01	2.1	0.3	0.37	4	<0.5	<0.2
1419534	Rock	0.055	16	8	0.33	65	0.004	<20	1.25	0.046	0.27	2.2	<0.01	2.6	0.4	0.42	5	<0.5	<0.2
1419535	Rock	0.060	19	10	0.47	57	0.019	<20	1.22	0.038	0.19	0.6	<0.01	3.1	0.3	0.14	6	<0.5	<0.2
1419536	Rock	0.058	16	11	0.52	75	0.076	<20	1.19	0.062	0.22	1.0	<0.01	2.7	0.3	<0.05	5	<0.5	<0.2
1419537	Rock	0.046	15	11	0.45	164	0.112	<20	0.92	0.080	0.34	1.3	<0.01	2.6	0.4	<0.05	4	<0.5	<0.2
1419538	Rock	0.059	12	12	0.54	124	0.101	<20	1.21	0.069	0.30	1.3	<0.01	2.6	0.4	0.05	5	<0.5	<0.2
1419539	Rock	0.054	10	10	0.49	65	0.079	<20	1.14	0.058	0.21	1.1	<0.01	2.3	0.3	0.07	4	<0.5	<0.2
1419540	Rock	0.055	12	11	0.52	130	0.110	<20	1.18	0.070	0.31	1.2	<0.01	3.0	0.4	0.11	5	<0.5	<0.2
1419521	Rock	0.060	10	11	0.47	79	0.071	<20	1.17	0.068	0.16	1.1	<0.01	2.6	0.2	<0.05	5	<0.5	<0.2
1419522	Rock	0.061	14	10	0.54	257	0.094	<20	1.34	0.060	0.22	0.8	<0.01	2.8	0.3	<0.05	5	<0.5	<0.2
1419523	Rock	0.052	11	10	0.45	123	0.092	<20	1.11	0.075	0.26	1.1	<0.01	2.3	0.3	<0.05	4	<0.5	<0.2
1419524	Rock	0.064	21	11	0.53	190	0.103	<20	1.28	0.076	0.37	0.7	<0.01	3.2	0.5	<0.05	5	<0.5	<0.2
1419525	Rock	0.062	14	11	0.50	112	0.106	<20	1.31	0.079	0.24	0.9	<0.01	3.3	0.4	<0.05	5	<0.5	<0.2
1419526	Rock	0.061	13	11	0.51	216	0.094	<20	1.36	0.068	0.30	0.7	<0.01	3.1	0.4	<0.05	5	<0.5	<0.2
1419527	Rock	0.066	12	10	0.50	143	0.074	<20	1.17	0.058	0.22	0.5	<0.01	2.6	0.3	<0.05	5	<0.5	<0.2
1419528	Rock	0.057	10	9	0.44	177	0.027	<20	1.41	0.033	0.17	0.4	<0.01	2.0	0.3	<0.05	5	<0.5	<0.2
1419529	Rock	0.059	11	9	0.45	180	0.030	<20	1.48	0.035	0.19	0.4	<0.01	1.9	0.4	<0.05	6	<0.5	<0.2
1419530	Rock	0.062	15	9	0.39	128	0.014	<20	1.43	0.026	0.17	0.4	0.01	2.4	0.4	<0.05	8	<0.5	<0.2
1419541	Rock	0.054	10	12	0.48	160	0.122	<20	1.08	0.098	0.40	1.3	<0.01	2.4	0.5	<0.05	4	<0.5	<0.2
1419542	Rock	0.059	14	12	0.55	170	0.126	<20	1.09	0.078	0.36	1.1	<0.01	2.9	0.4	<0.05	5	<0.5	<0.2
1419543	Rock	0.057	14	12	0.51	121	0.109	<20	1.08	0.078	0.29	1.8	<0.01	2.4	0.4	<0.05	5	<0.5	<0.2
1419544	Rock	0.054	18	12	0.54	171	0.113	<20	1.09	0.067	0.35	1.3	<0.01	2.5	0.4	0.18	5	<0.5	<0.2
1419545	Rock	0.059	15	18	0.54	193	0.130	<20	1.04	0.084	0.42	2.1	<0.01	2.5	0.5	<0.05	4	<0.5	<0.2
1419546	Rock	0.070	22	20	0.58	280	0.164	<20	0.96	0.090	0.53	1.6	<0.01	2.5	0.6	<0.05	4	<0.5	<0.2

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Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
1419547	Rock	3.13	0.005	2.6	6.2	5.1	50	<0.1	6.1	6.1	551	2.54	4.9	0.8	14.2	34	<0.1	0.3	<0.1	44	0.56
1419548	Rock	3.01	0.005	1.8	5.1	4.4	39	<0.1	5.2	6.1	534	2.54	5.1	0.5	15.4	33	<0.1	0.3	<0.1	46	0.59
1419549	Rock	2.43	0.005	1.8	4.4	4.6	39	<0.1	5.2	6.3	583	2.67	4.5	<0.5	13.6	38	<0.1	0.3	0.1	49	0.62
1419550	Rock	3.04	<0.005	1.8	9.7	5.3	38	<0.1	4.5	5.6	507	2.46	6.7	0.7	16.2	29	<0.1	0.4	<0.1	42	0.55

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Project: ROY
Report Date: September 15, 2016

CERTIFICATE OF ANALYSIS WHI16000215.1

	Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1419547	Rock	0.056	22	19	0.54	277	0.160	<20	1.00	0.117	0.54	1.8	<0.01	2.7	0.5	<0.05	4	<0.5	<0.2
1419548	Rock	0.057	20	17	0.57	260	0.154	<20	1.04	0.087	0.56	1.6	<0.01	2.9	0.6	<0.05	4	<0.5	<0.2
1419549	Rock	0.065	21	17	0.61	306	0.170	<20	1.14	0.114	0.63	1.5	<0.01	3.5	0.7	<0.05	5	<0.5	<0.2
1419550	Rock	0.059	20	15	0.54	255	0.150	<20	1.02	0.081	0.51	1.7	<0.01	2.6	0.6	0.07	4	<0.5	<0.2

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QUALITY CONTROL REPORT WHI16000215.1

	Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
1419551	Rock	1.89	<0.005	2.5	6.6	7.5	32	<0.1	3.8	4.5	480	2.25	9.6	2.1	13.2	32	<0.1	0.5	0.2	34	0.77
REP 1419551	QC			2.5	6.7	7.8	34	<0.1	3.8	4.8	495	2.33	10.2	1.5	14.3	33	<0.1	0.5	0.2	35	0.79
1419510	Rock	2.37	0.008	0.5	4.2	16.2	46	0.2	4.8	12.2	633	2.42	17.4	4.7	14.0	75	0.2	0.3	0.5	29	1.86
REP 1419510	QC			0.7	4.7	17.0	50	0.2	4.4	11.8	641	2.46	18.4	12.7	14.6	73	0.2	0.2	0.6	29	1.93
REP 1419537	QC		0.005																		
1419546	Rock	3.06	0.006	2.4	6.9	5.8	50	<0.1	6.0	6.6	556	2.43	6.2	<0.5	13.3	28	<0.1	0.5	<0.1	46	0.56
REP 1419546	QC		0.005																		
Core Reject Duplicates																					
1419557	Rock	1.97	0.032	1.7	26.8	11.0	30	0.1	2.5	8.4	464	2.07	18.7	4.3	13.9	32	0.2	0.9	1.1	19	1.40
DUP 1419557	QC		0.011	1.7	27.5	10.8	31	<0.1	2.7	8.6	449	2.02	18.4	5.4	13.9	29	0.2	0.8	1.1	19	1.38
1419537	Rock	1.69	<0.005	1.2	2.2	5.9	27	<0.1	3.4	3.8	453	2.13	5.2	1.1	13.5	30	<0.1	0.5	0.1	36	0.61
DUP 1419537	QC		0.007	1.3	3.3	5.7	28	<0.1	3.4	3.6	434	2.06	5.2	<0.5	13.6	30	<0.1	0.5	0.1	35	0.59
Reference Materials																					
STD DS10	Standard			11.8	142.2	141.2	340	1.6	67.8	11.7	829	2.58	42.3	56.6	6.5	60	2.2	6.4	11.4	41	0.99
STD DS10	Standard			14.9	152.3	151.8	380	1.7	73.5	12.9	911	2.80	46.6	54.1	7.4	73	2.8	7.0	11.8	44	1.11
STD OREAS45EA	Standard			1.3	657.7	13.5	30	0.2	351.6	47.6	395	20.14	8.3	46.6	9.1	3	<0.1	0.2	0.2	286	0.03
STD OREAS45EA	Standard			1.6	725.5	14.3	31	0.2	403.4	53.2	442	23.09	10.5	55.4	10.0	4	<0.1	0.2	0.3	323	0.03
STD OXD108	Standard		0.389																		
STD OXD108	Standard		0.418																		
STD OXD108	Standard		0.409																		
STD OXI121	Standard		1.767																		
STD OXI121	Standard		1.795																		
STD OXI121	Standard		1.786																		
STD OXN117	Standard		7.774																		
STD OXN117	Standard		7.719																		
STD OXN117	Standard		7.970																		
STD DS10 Expected				13.6	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625
STD OREAS45EA Expected				1.6	709	14.3	31.4	0.26	381	52	400	23.51	10.3	53	10.7	3.5	0.03	0.32	0.26	303	0.036

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Project: ROY
Report Date: September 15, 2016

QUALITY CONTROL REPORT WHI16000215.1

	Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																			
1419551	Rock	0.047	13	14	0.48	134	0.105	<20	1.03	0.087	0.35	2.0	<0.01	2.8	0.4	0.07	4	<0.5	<0.2
REP 1419551	QC	0.050	15	14	0.49	149	0.106	<20	1.06	0.088	0.36	2.0	<0.01	2.7	0.4	0.07	4	<0.5	<0.2
1419510	Rock	0.065	21	7	0.46	143	0.006	<20	1.39	0.056	0.28	34.3	<0.01	2.6	0.4	<0.05	5	<0.5	<0.2
REP 1419510	QC	0.067	21	7	0.46	146	0.006	<20	1.40	0.056	0.29	29.2	<0.01	2.5	0.3	<0.05	5	<0.5	<0.2
REP 1419537	QC																		
1419546	Rock	0.070	22	20	0.58	280	0.164	<20	0.96	0.090	0.53	1.6	<0.01	2.5	0.6	<0.05	4	<0.5	<0.2
REP 1419546	QC																		
Core Reject Duplicates																			
1419557	Rock	0.031	10	9	0.31	46	0.008	<20	0.82	0.042	0.17	1.4	<0.01	1.7	0.2	0.34	4	<0.5	<0.2
DUP 1419557	QC	0.030	10	9	0.30	44	0.007	<20	0.79	0.041	0.17	1.5	<0.01	1.5	0.2	0.34	4	<0.5	<0.2
1419537	Rock	0.046	15	11	0.45	164	0.112	<20	0.92	0.080	0.34	1.3	<0.01	2.6	0.4	<0.05	4	<0.5	<0.2
DUP 1419537	QC	0.045	14	10	0.43	158	0.112	<20	0.88	0.077	0.33	1.4	<0.01	2.5	0.4	<0.05	4	<0.5	<0.2
Reference Materials																			
STD DS10	Standard	0.068	16	50	0.72	370	0.069	21	0.95	0.068	0.31	3.1	0.24	2.7	4.6	0.26	4	2.0	4.6
STD DS10	Standard	0.077	19	56	0.79	430	0.085	<20	1.09	0.072	0.35	2.8	0.28	3.1	5.2	0.28	4	2.4	4.8
STD OREAS45EA	Standard	0.025	7	787	0.09	126	0.089	<20	2.94	0.024	0.05	<0.1	<0.01	72.1	<0.1	<0.05	12	<0.5	<0.2
STD OREAS45EA	Standard	0.029	7	903	0.11	147	0.100	<20	3.39	0.021	0.05	<0.1	<0.01	82.1	<0.1	<0.05	13	0.7	<0.2
STD OXD108	Standard																		
STD OXD108	Standard																		
STD OXD108	Standard																		
STD OXI121	Standard																		
STD OXI121	Standard																		
STD OXI121	Standard																		
STD OXN117	Standard																		
STD OXN117	Standard																		
STD OXN117	Standard																		
STD DS10 Expected		0.0765	17.5	54.6	0.775	412	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3	2.3	5.01
STD OREAS45EA Expected		0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053			78	0.072	0.036	12.4	0.78	0.07

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QUALITY CONTROL REPORT WHI16000215.1

		WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
STD OXD108 Expected			0.414																		
STD OXN117 Expected			7.679																		
STD OXI121 Expected			1.834																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
Prep Wash																					
ROCK-WHI	Prep Blank		<0.005	0.8	6.4	1.7	33	<0.1	1.4	3.4	433	1.76	0.8	1.1	2.3	26	<0.1	<0.1	<0.1	24	0.63
ROCK-WHI	Prep Blank		<0.005	0.9	5.7	1.6	27	<0.1	1.4	3.3	419	1.69	1.1	0.9	2.3	28	<0.1	<0.1	<0.1	23	0.65

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		AQ200 P % 0.001	AQ200 La ppm 1	AQ200 Cr ppm 1	AQ200 Mg % 0.01	AQ200 Ba ppm 1	AQ200 Ti % 0.001	AQ200 B ppm 20	AQ200 Al % 0.01	AQ200 Na % 0.001	AQ200 K % 0.01	AQ200 W ppm 0.1	AQ200 Hg ppm 0.01	AQ200 Sc ppm 0.1	AQ200 Tl ppm 0.1	AQ200 S % 0.05	AQ200 Ga ppm 1	AQ200 Se ppm 0.5	AQ200 Te ppm 0.2
STD OXD108 Expected																			
STD OXN117 Expected																			
STD OXI121 Expected																			
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank																		
BLK	Blank																		
Prep Wash																			
ROCK-WHI	Prep Blank	0.038	6	4	0.40	73	0.093	<20	0.97	0.118	0.11	0.1	<0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
ROCK-WHI	Prep Blank	0.037	6	4	0.39	73	0.088	<20	0.97	0.103	0.10	0.5	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2