

Geochemical, Geophysical & Airborne Survey Assessment Report:

Soil Sampling, Prospecting, Dighem & Drone aerial survey

HUNKER GOLD PROJECT

YC23516-531	Crown Jewel 1-16	YC19954-965	King 21-32
YC34425-442	Crown Jewel 17-34	YC20693-702	King 33-42
YC34643-650	Crown Jewel 35-42	YC86597-600	King 43-46
YC35000-057	Crown Jewel 43-100	YC86748-755	King 47-54
YC35674-705	Crown Jewel 101-132	YC44334-349	NPrince 1-16
YC35756-763	Crown Jewel 133-140	YC20647-692	Prince 1-46
YC35706-764	Crown Jewel 141-144	YC21127-134	Prince 47-54
YC35764-769	Crown Jewel 145-150	YC34443-463	Prince 61-81
YC35710-731	Crown Jewel 151-172	YC36113-123	Prince 82-92
YC19934-945	King 1-12	YC61040-043	Prince 93-96
YC44350-357	King 13-20		

Dawson Mining District

NTS: 115O/14,15

Latitude: 63.92° N Longitude: -138.98 ° W

Work Performed on:

Soil Sampling	August 13,14
Prospecting	August 14
Drone	June 11
Dighem	June 1-17

Prepared for White Gold Corp
By GroundTruth Exploration

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February 20, 2018

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1 Introduction

White Gold Corporation commissioned Groundtruth Exploration Ltd. ("Groundtruth") of Dawson, Yukon to perform Soil Sampling, Prospecting, Dighem and Drone aerial survey programs on their Hunker Gold Property (the "Property, located in Yukon's Klondike district, approximately 20 km Southeast of Dawson, YT in the Dawson Mining District on NTS Map Sheet 115O/14,15 (Figure 1). 306 Soil samples, one day of prospecting, 15km² of drone survey (12cm resolution) and 375.2 line km of Dighem were collected on the property during the 2017 field program. The Dighem survey was contracted to CGG Global of Toronto.

Results and interpretation of these surveys form the basis of this report. Appendices to this report are attached as digital files.

2 Property Description, Location, Accessibility, Climate

The Hunker Gold Property is located in the central-western part of Yukon, approximately 20km southeast of Dawson YT(Figure 1). The center of the property is located at Latitude 63.92° N and Longitude -138.98 ° W.

The property is located in an unglaciated region of the Dawson Range. Elevations range from 440m to 1160m. 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. The typical climate of the area is moderate precipitation, warm summers, and cold winters.

Access to the property is by all season road from Dawson. Dawson is the nearest supply center and all personnel were mobilized from Dawson to the property for the 2017 field season.

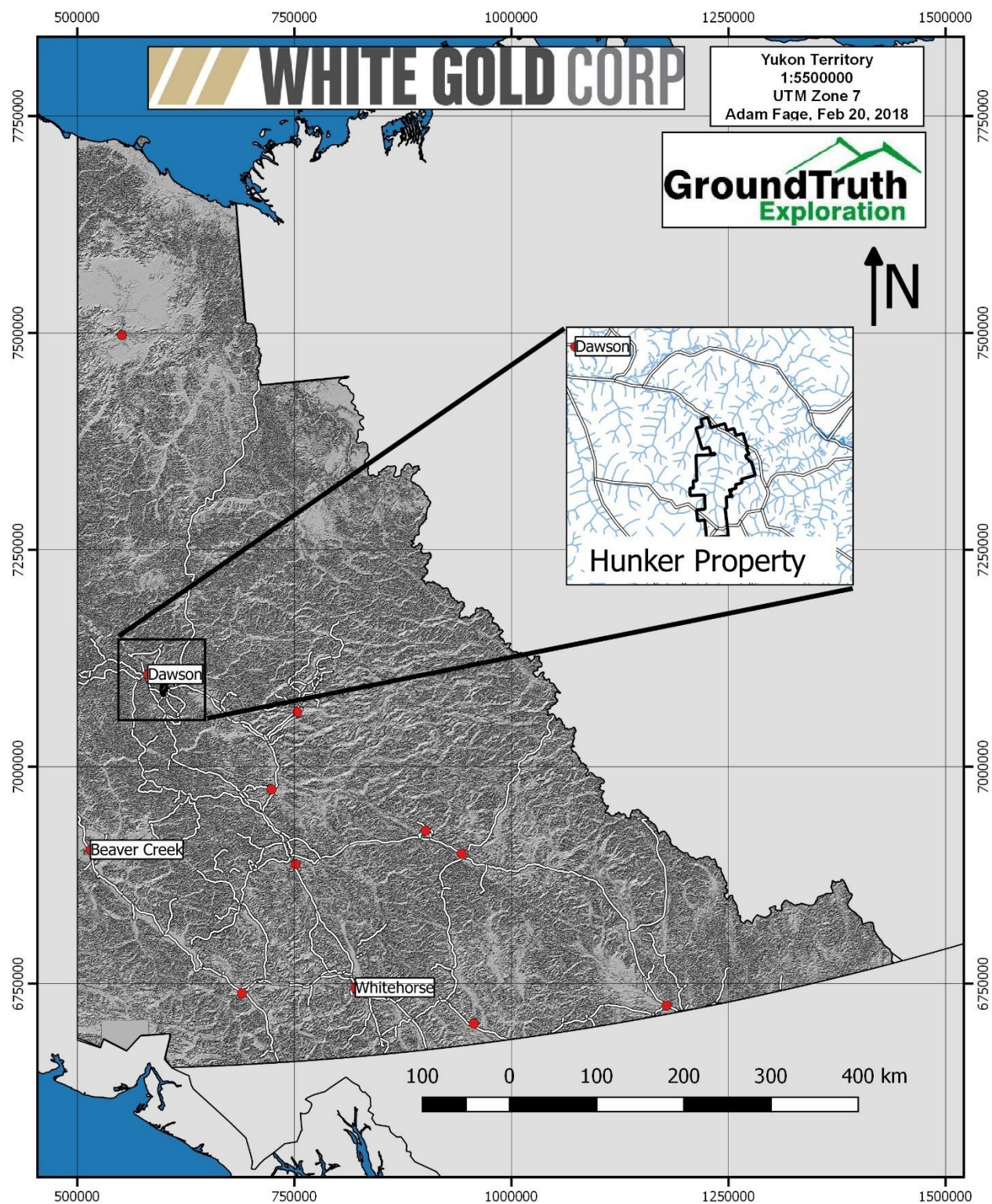


Figure 1: Location of the Hunker Property, Yukon, Canada

3 Claim Information

The Hunker Gold Project is registered in the Dawson Mining district on mapsheet 115O/14,15. (Figure 2, Appendix A) It encompasses 6650 hectares and is composed of the following 332 claims:

Claim Name	Grant Number	Owner	Operator
Crown Jewel 1-16	YC23516-531	White Gold Corp. - 100%	White Gold Corp. - 100%
Crown Jewel 17-34	YC34425-442	White Gold Corp. - 100%	White Gold Corp. - 100%
Crown Jewel 35-42	YC34643-650	White Gold Corp. - 100%	White Gold Corp. - 100%
Crown Jewel 43-100	YC35000-057	White Gold Corp. - 100%	White Gold Corp. - 100%
Crown Jewel 101-132	YC35674-705	White Gold Corp. - 100%	White Gold Corp. - 100%
Crown Jewel 133-140	YC35756-763	White Gold Corp. - 100%	White Gold Corp. - 100%
Crown Jewel 141-144	YC35706-764	White Gold Corp. - 100%	White Gold Corp. - 100%
Crown Jewel 145-150	YC35764-769	White Gold Corp. - 100%	White Gold Corp. - 100%
Crown Jewel 151-172	YC35710-731	White Gold Corp. - 100%	White Gold Corp. - 100%
King 1-12	YC19934-945	White Gold Corp. - 100%	White Gold Corp. - 100%
King 13-20	YC44350-357	White Gold Corp. - 100%	White Gold Corp. - 100%
King 21-32	YC19954-965	White Gold Corp. - 100%	White Gold Corp. - 100%
King 33-42	YC20693-702	White Gold Corp. - 100%	White Gold Corp. - 100%
King 43-46	YC86597-600	White Gold Corp. - 100%	White Gold Corp. - 100%
King 47-54	YC86748-755	White Gold Corp. - 100%	White Gold Corp. - 100%
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Prince 1-46	YC20647-692	White Gold Corp. - 100%	White Gold Corp. - 100%
Prince 47-54	YC21127-134	White Gold Corp. - 100%	White Gold Corp. - 100%
Prince 61-81	YC34443-463	White Gold Corp. - 100%	White Gold Corp. - 100%
Prince 82-92	YC36113-123	White Gold Corp. - 100%	White Gold Corp. - 100%
Prince 93-96	YC61040-043	White Gold Corp. - 100%	White Gold Corp. - 100%

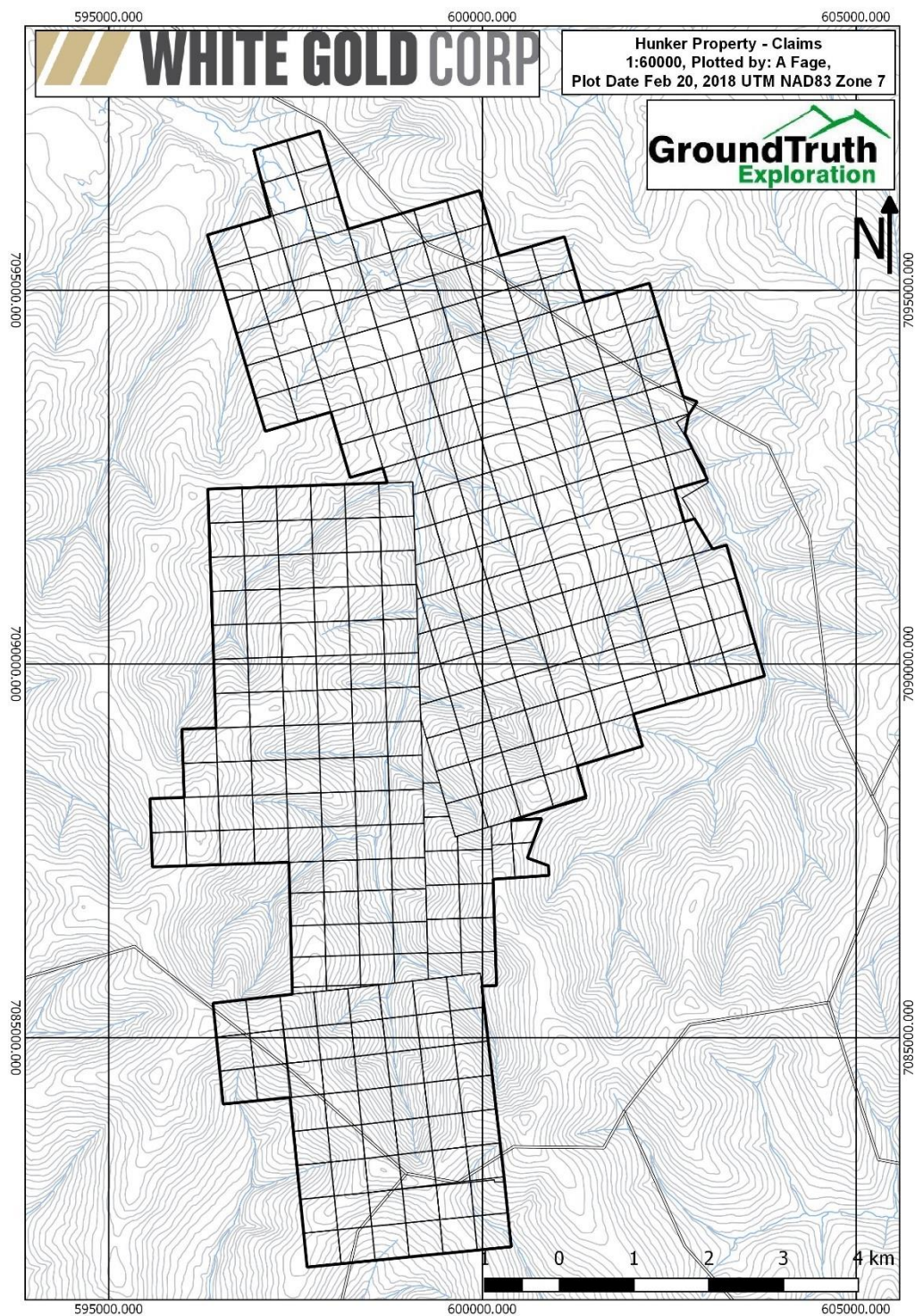


Figure 2: Claim Map of the Hunker property. Claim names and Grant numbers are visible in Appendix A – Claim map

4 History

The following section, providing details of the Property history from 1950, is quoted from Pautler (2010):

1952-56: Rehabilitation and sampling of old workings and drilling of 64m in 2 holes in 1952 and 437m in 6 holes in 1956 on the Bum prospect by Yukon Consolidated Gold Corporation Ltd. A selected specimen from the workings reportedly assayed 18% Cu and 617.1 g/t Ag (Deklerk, 2008). No record of results could be located.

1967-68: Extensive bulldozer trenching on Boxcar prospect by V. Scheck and bulldozer trenching and ground sluicing on the Bum prospect by B. Bratsburg (Deklerk, 2008).

1981: Grid soil sampling by Cominco Ltd. outlining low, with scattered high, gold values, a high arsenic horizon within the schist and a copper-lead-zinc anomaly in King area (Medford and Jackisch, 1981).

1983: Mapping and geochemical sampling by Dawson Eldorado Gold Explorations Ltd. on Boxcar prospect (Mortensen, 1984).

1984: A fence of percussion drill holes (457.2m) by United Keno Hill Mines Ltd. and Falconbridge Ltd. on the Bum prospect with no significant gold values intersected in drilling (INAC, 1987).

1988-91: Soil grid and rock geochemical sampling by Arbor Resources Inc. around Boxcar prospect outlining maximum soil values of 198 ppb Au, 14.2 ppm Ag, 400 ppm As and 535 ppm Pb, with trace of Boxcar fault extending 100m north and 1100m south as defined by lead in soil anomalies, and 765 ppb Au in rock from siliceous schist (Van Angeren, 1988 and Tomlinson, 1991 and 1992).

1992: Trenching by Hastings Management Corp. on Boxcar prospect exposing siliceous breccia zone (Van Angeren, 1993).

1994: Soil line by Kennecott Ltd. outlining anomalous lead and zinc in the King area (Cranswick, and Doyle, 1994).

1996-99: Regional silt program in 1996 by Barramundi returned several anomalous gold results in the headwaters of Quartz and Sulphur Creeks with the best at the head of Quartz Creek returning 13 ppb Au (Stevens, 1997). An airborne magnetic-VLF electromagnetic geophysical survey in 1999 delineated an 8 km east-northeast trending lineament, which also transects the gold bearing Sheba and Mitchell quartz veins that may represent a fault associated with gold mineralization (Sears, 1999).

2000: Staked by Shawn Ryan, with additional ground added in 2001, 2004-7 and 2009. Program consisted of 12 silt samples and 62 grid soil samples, with no gold analyzed in the soils, on the King claims (Ryan, 2001). The grid soil geochemistry outlined two anomalies, anomalous zinc, lead and copper values covering a 300m by 500m area (north-western extension of Cominco's "E" grid) and a lead, zinc, copper and arsenic anomaly (main Cominco anomaly).

2001: Completion of 41.9 line km ground magnetic and 39 line km gradient magnetic surveys by Shawn Ryan on the King claims outlining a magnetic high in the eastern property area flanked on the west by a subtle magnetic anomaly associated with a lead-zinc-copper soil anomaly, and a magnetic low coincident with a zinc-arsenic soil anomaly in the southern grid area (Ryan, 2002b). A 7.65 line km ground magnetic and gradient magnetic survey was conducted over the Boxcar showing delineating a 300m by 90m east-northeast trending magnetic high anomaly and a 400m by 100m north trending magnetic high anomaly extending from the showing (Ryan, 2002a).

2002: Completion of 31 line km ground magnetic and 30 line km VLF electromagnetic surveys and a 408 sample soil survey by Shawn Ryan on the Prince claims outlining a magnetic high extending 2 km to the northeast of the Boxcar prospect with associated lead-zinc-copper in soil values (Ryan, 2003).

2004-6 Soil programs undertaken with an approximate 500 sample soil survey by Shawn Ryan on the southeast Prince claims outlining spotty gold values to 153.7 ppb Au below a magnetic high suggestive of ultramafic rocks in the southern part of the grid (similar environment to White Gold), and a base metal soil anomaly associated with a moderate magnetic signature suggestive of felsic schists (possible felsic meta-volcanic rocks favourable to host volcanogenic massive sulphide type mineralization) (Ryan, 2006).

2007 A program consisting of a 1307 sample soil survey, prospecting, mapping and rock sampling (65 samples) was completed by International Gold Resources Inc. delineating a 1.3 km by 150m gold in soil anomaly on the King claims within an arsenic anomaly with a favourable magnetic signature (Doherty, 2008).

2009-12 International Gold Resources collected an additional 1,286 soil samples and prepared a technical report (Pautler, 2010). An additional 212 soil samples were collected in 2011 and 1,105 samples in 2012, as described more fully in the section "KSD South Target – Recent Exploration", below.

2013 Ground Truth Exploration collected 481 samples, extending the previous KSD soil grid to the south to cover the northern half of the Sophie claims. A 20 line IP/Resistivity

survey was also completed, with 6 lines over the Prince zone and 14 over the King and King SE zones. Finally, a total of 124 sites were sampled with a GeoProbe Basal soil sampling tool along 10 lines over the King Zone and the King SE Zone.

2014 GroundTruth Exploration collected 606 grid soil samples, 96.6 line km ground magnetic survey, 12 high resolution IP/resistivity survey lines, and 918.97m of rotary air blast (RAB) drilling over 17 holes on the King and Prince zones.

4.1 Regional Geology

The project is located within the Yukon-Tanana terrane (YT) of the western Yukon and central Alaska. The YT is an accreted terrane of polymetamorphosed and polydeformed metasedimentary, metavolcanic, and metaplutonic rocks of Upper Paleozoic and older ages bound by the Tintina fault to the northeast and Denali fault to the south-west (Figure 3). Overall, it records a prolonged and complex history of tectonic and magmatic processes along the northwestern margin of Laurentia between middle Paleozoic and Early Tertiary time. It has an equally complex metallogenic evolution with at least 10 pulses of mineralization of various styles currently recognized (Nelson et al 2013, Allan et al 2013, Mortensen and Allan 2012).

The majority of the Klondike Gold Fields, including the area of the Property, is underlain by Klondike Schist, consisting mafic and felsic meta-volcanic rocks with a of green schist facies metamorphic grade, which are variably pyritic muscovite and quartz-mica schists and chlorite (+/- actinolite, epidote & Fe carbonate) schist respectively. This assemblage also includes intrusive equivalents of the volcanic rocks and local non-carbonaceous silici-clastic rocks.

Sheet-like bodies of Carboniferous ultramafic rocks occur primarily to the northeast of the properties, and are also evident throughout the Klondike Gold Fields. South of the Indian River, and in the White Gold District, narrow bodies of mid to late Palaeozoic ultramafic rocks are exposed which are thought to demark thrust fault planes .

The above lithologies are intruded by plugs and stocks of Cretaceous aged quartz monzonite and granodiorite and unconformably overlain by massive andesite flows of the Late Cretaceous Carmacks Group, locally with Early Cretaceous coarse clastic sedimentary rocks at the base of the sequence. Eocene feldspar ±quartz porphyry dykes intrude the above. Minor Quaternary basalt overlies, and related dykes and sills intrude, the above units.

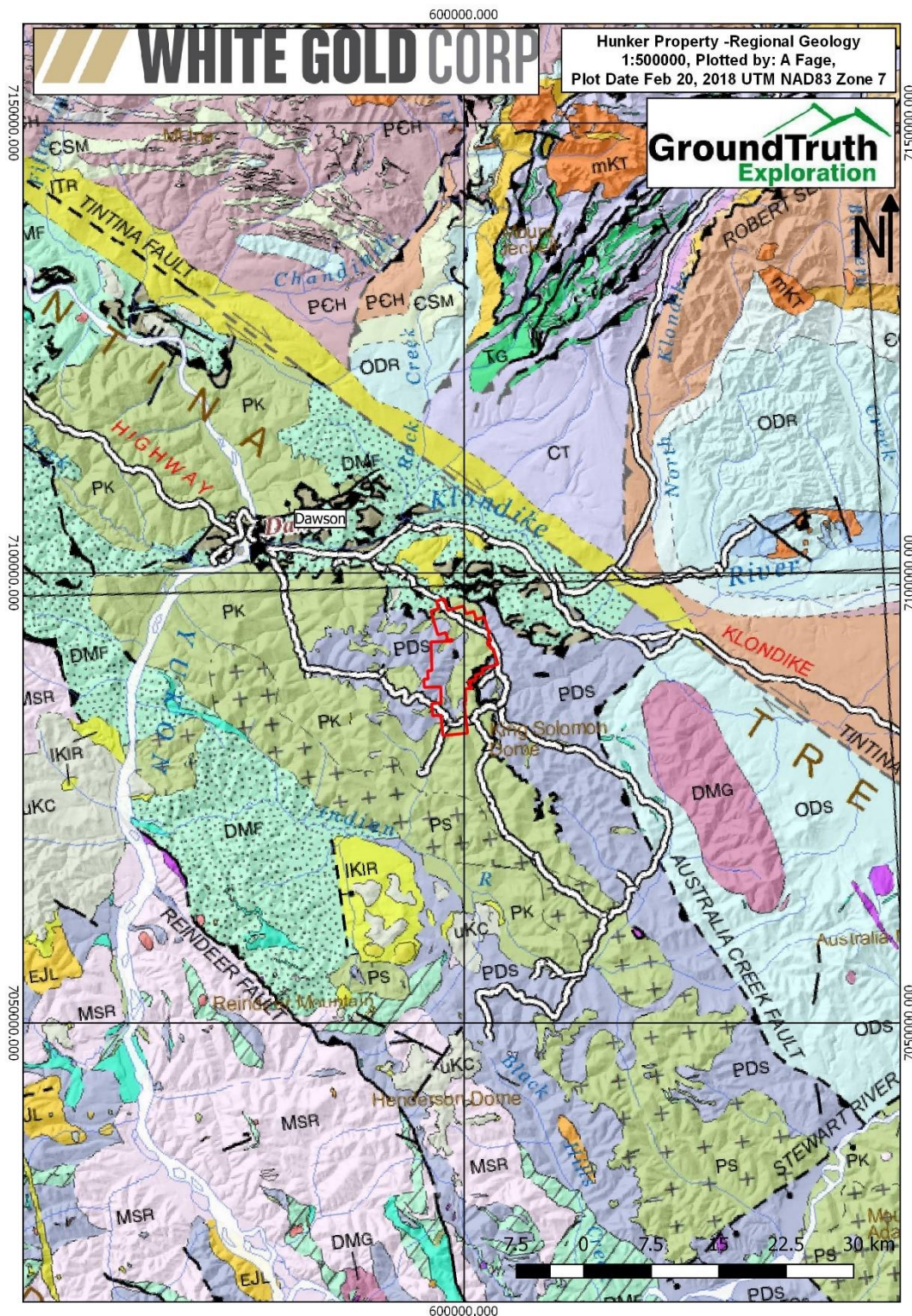


Figure 3: Regional Geology of the Hunker Property (From Colpron et al., 2016)

4.2 Property Geology

The following is from Gibson, 2015:

Within the project area the YT is dominated by three distinct metamorphic rock assemblages, including carbonaceous meta-clastic rocks of the Late Devonian to Early Mississippian age, the Snowcap assemblage, consisting of greenstone and serpentinite of the late Paleozoic Slide Mountain assemblage, and, felsic-mafic meta-volcanics and meta-intrusives of the Middle to Late Permian Klondike assemblage. Associated meta-intrusive rocks include quartz-feldspar augen schist and quartz monzonite orthogneiss. Outcrop is rare on the property, comprising less than 2% of the total surface area, and generally confined to rounded ridge tops and road exposures.

The southern portion of the property including the King, King SE, and Prince zones are underlain by the Klondike schist. Within the claim area, the Klondike Schist consists primarily of chlorite-muscovite-quartz-feldspar schist which is locally differentiated into 'felsic' and 'mafic' units.

The 'felsic schist' is a tan to light green quartz-feldspar phyllonite derived from felsic volcanic rock. It appears more altered, with the alteration comprising of limonite and sericite/muscovite/±carbonate, and it is located primarily within the southern Hunker area, both within the main King Zone anomaly and within the northern Au-As soil anomaly in the headwaters of Soap Creek; a tributary of Gold Bottom Creek.

The mafic schist derived from intermediate to mafic volcanic and volcanoclastic rocks is medium to dark green colored, chlorite schist and phyllonite. Both commonly include diagenetic cubic pyrite which is rusty or limonitic where exposed throughout much of the area (Pautler, 2010).

Based on regional mapping the Klondike schist appears to overlie meta-sedimentary units of the Snowcap assemblage. Rocks of the Snowcap assemblage have not been mapped in outcrop on the southern portion of the Hunker property, however, RAB drilling in the Prince Zone area did encounter a graphitic quartzite unit in fault contact with the Klondike schist.

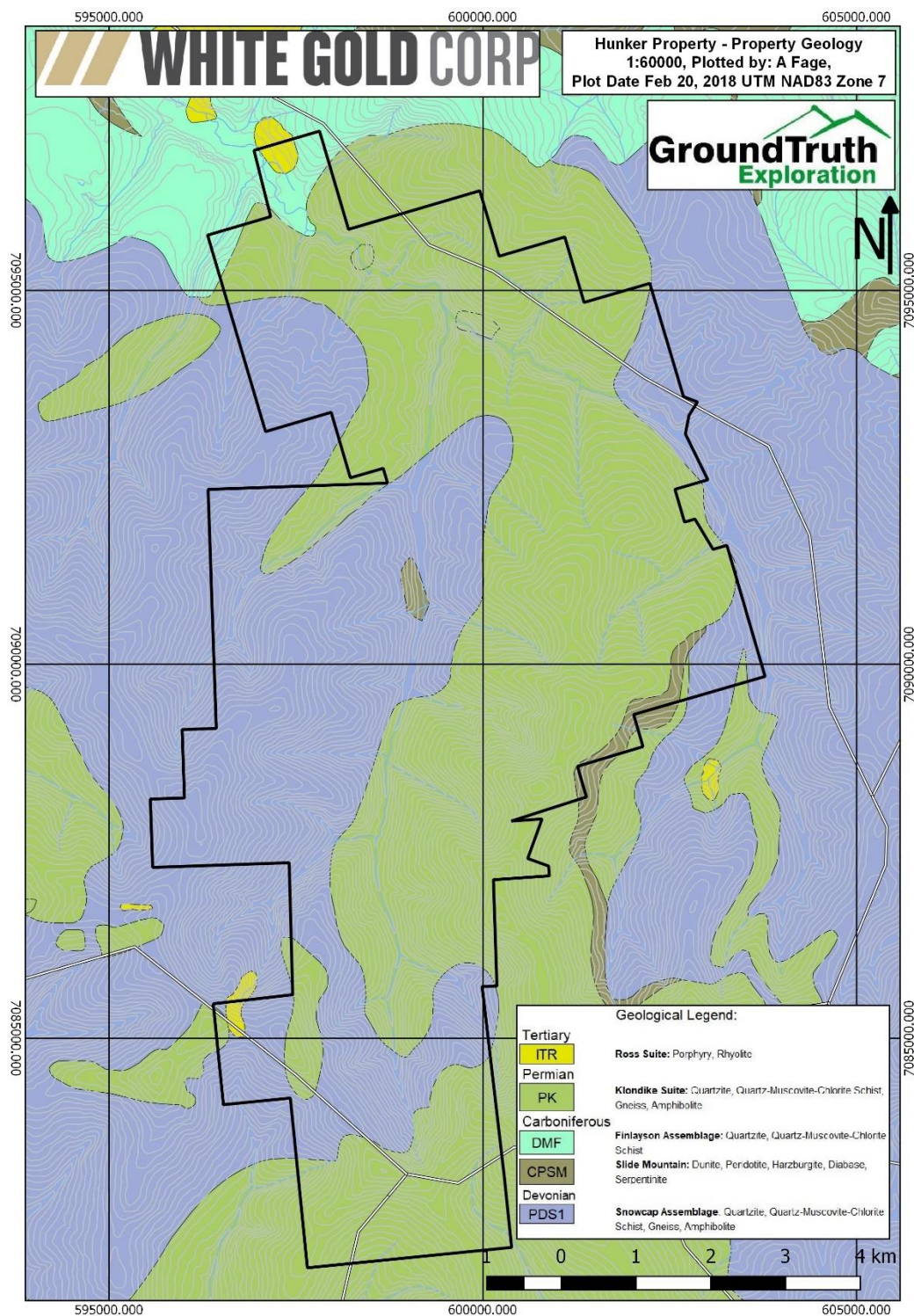


Figure 4: Local Geology of the Hunker Property

Source: GSC (Jim Ryan, et al, 2013)

4.3 Geochemical Sample Preparation and Analysis

Samples were shipped to Bureau Veritas (BV) sample preparation facility in Whitehorse. Prepared samples were shipped by BV to Vancouver where final analysis was completed.

Soil samples are prepared using the SS80 method. Samples are dried at 60 degrees Celsius and sieved until up to 100 grams of material passes 180 microns (80 mesh). The samples are then analyzed by the AQ201+U method which involves dissolving 15 grams of material in a hot Aqua Regia solution and determining the concentration of 37 elements of the resulting analyte by the ICP-MS technique.

Prospecting samples were prepared using the PRP70-250 method which involves crushing the material until 70 % will pass 2 mm and then splitting off and pulverizing up to 250 grams until 85 % pass 75 microns. A 0.5 g sub sample of the resulting pulp is analyzed by the AQ200 method, which involves dissolving the material in a hot Aqua Regia solution and determining the concentration of 36 elements of the resulting analyte by the ICP-MS technique. A 30 gram sub sample of the pulp is also analyzed by the FA430 method, which involves dissolving fusing the material with a lead based flux, dissolving the resultant dore (Au-Ag alloy) bead in acid and determining the Au content of the analyte by AAS. Any samples returning results over 10 g/t Au are analyzed by the FA530 method which uses a similar fusion technique as the FA430 method, but the Au is parted from the dore bead by dissolving it in nitric acid and the final amount of Au is determined gravimetrically.

5 Soil Sampling Program

5.1 Introduction

The 2017 soil program consisted of sending a 5 man crew from Dawson City for a two day detailed sampling program to collect 306 soil samples with the objective of sampling untested ridges and spurs on the property

Sampling took place on August 13,14 2017.

5.2 Personnel

The survey was conducted by the following GroundTruth Exploration personnel:

1. Norbert Kapa
2. Ross Wilcox
3. Cosenti Graf-Smith
4. Luke Severinsen
5. Peter Leith

5.3 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.

5.4 Soil Survey Results

A location map of soil samples collected in 2017 is shown below in Figure 5.

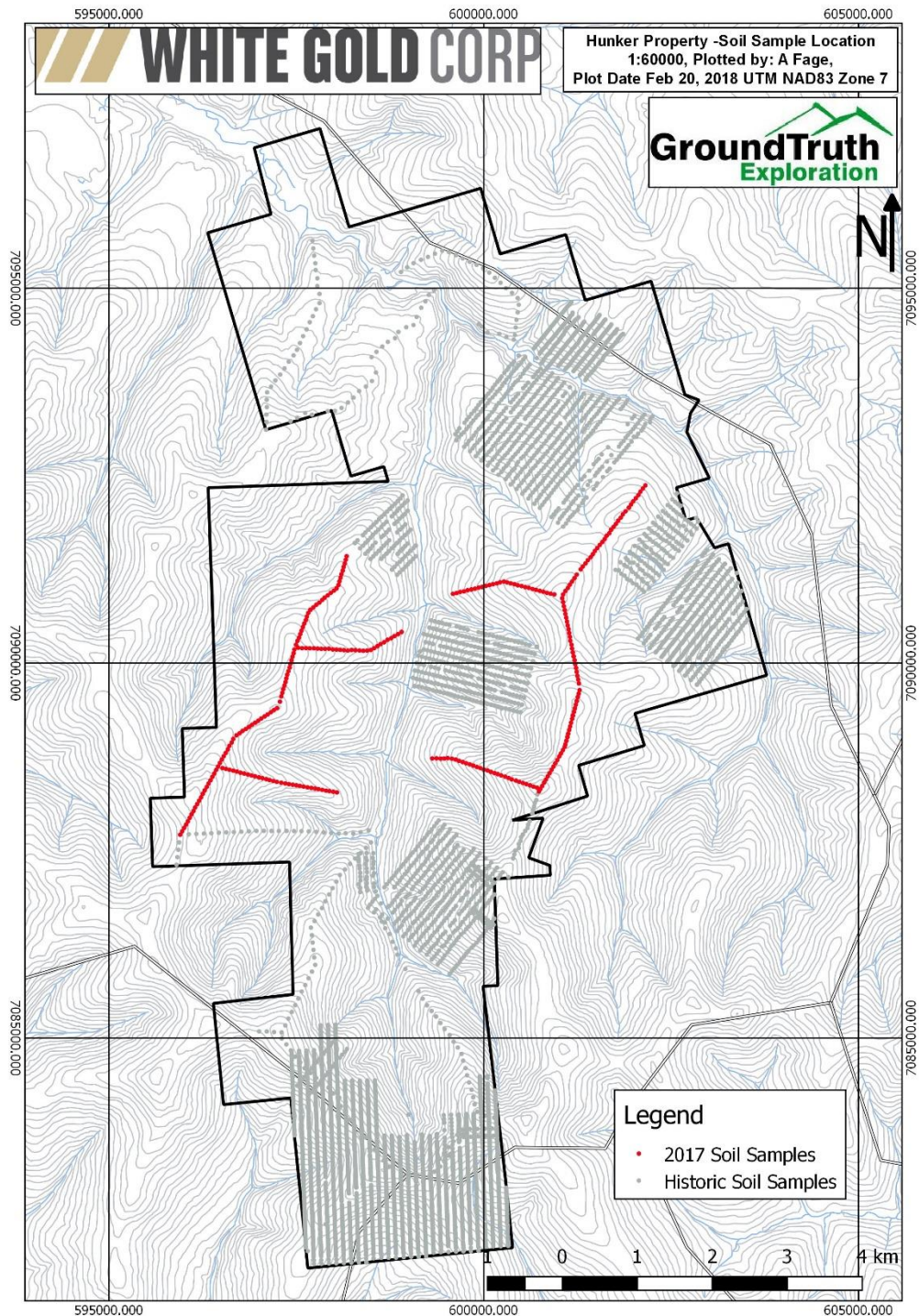


Figure 5: Location of 2017 Soil Samples

Maps shown below are plotted with break points at 80th, 90th, 95th, 98th and 99th percentile for all samples on the property.

The 2017 soil sampling program was designed to sample untested ridges and spurs throughout the property at 50m spacing. This program was successful in identifying a 3 station gold in soil anomaly (57.6, 56.3, 23 ppb Au in soil) on the easternmost ridge sampled in this program.

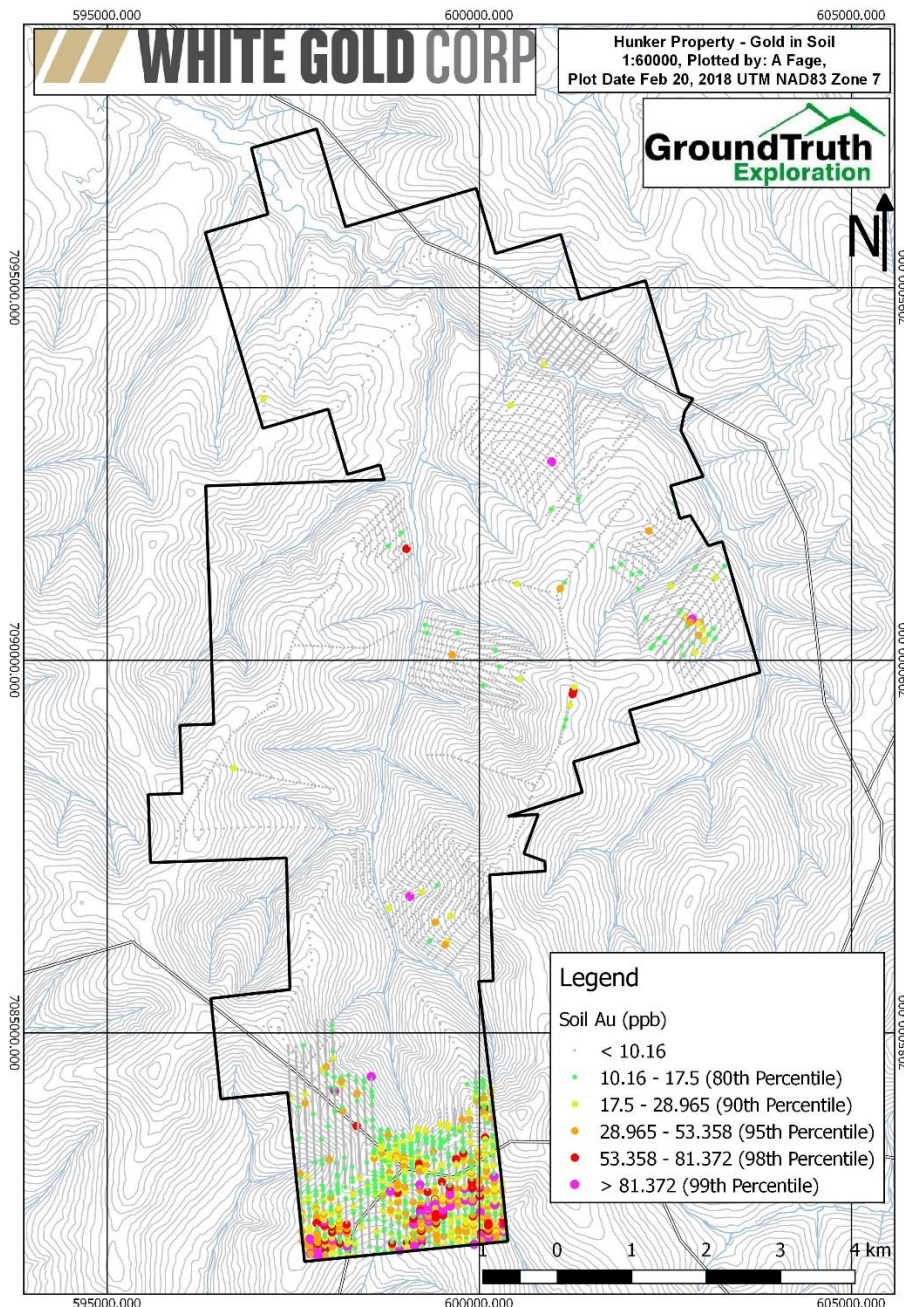


Figure 6: Gold-in-soil, Hunker property

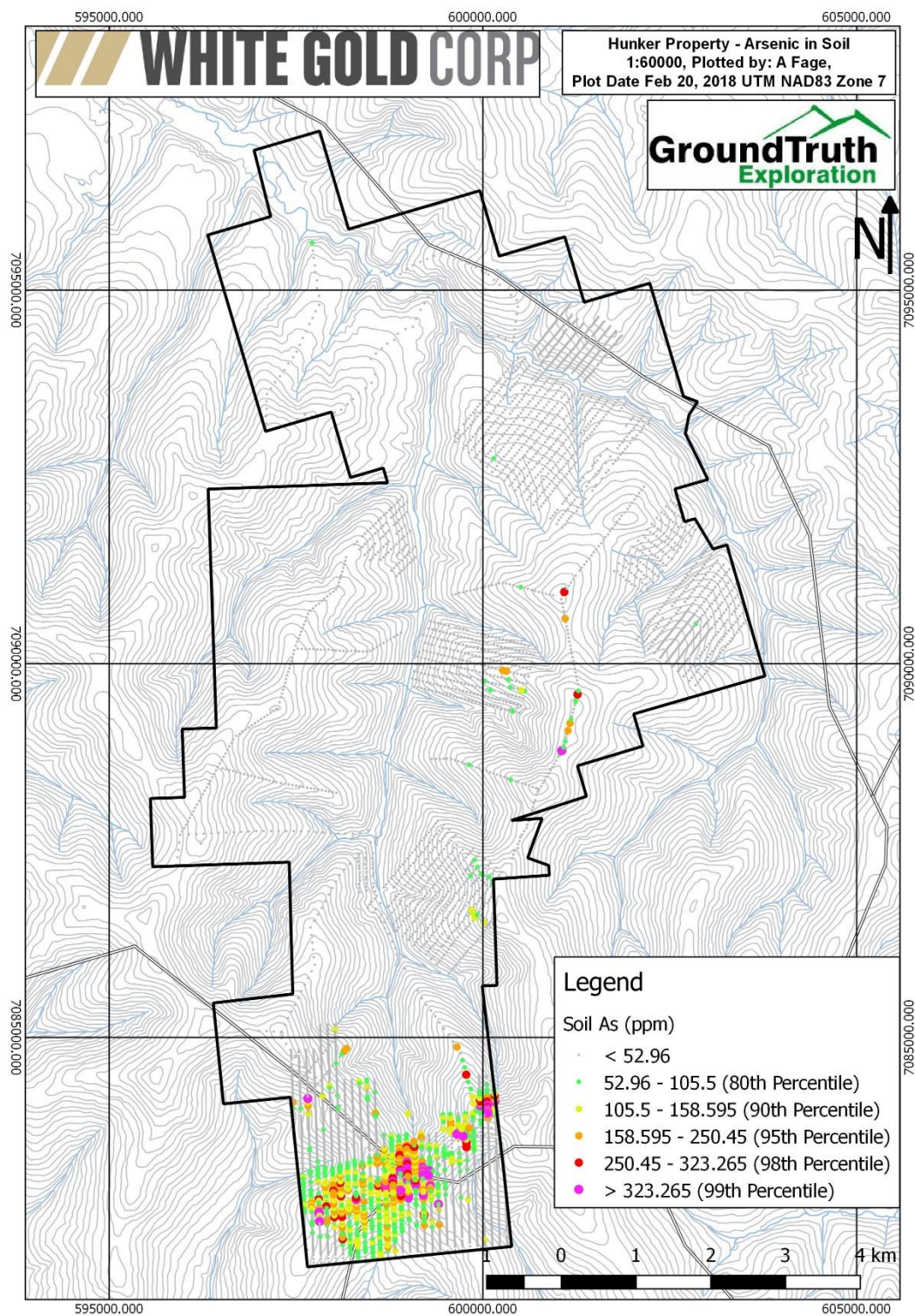


Figure 7: Arsenic-in-soil, Hunker Property

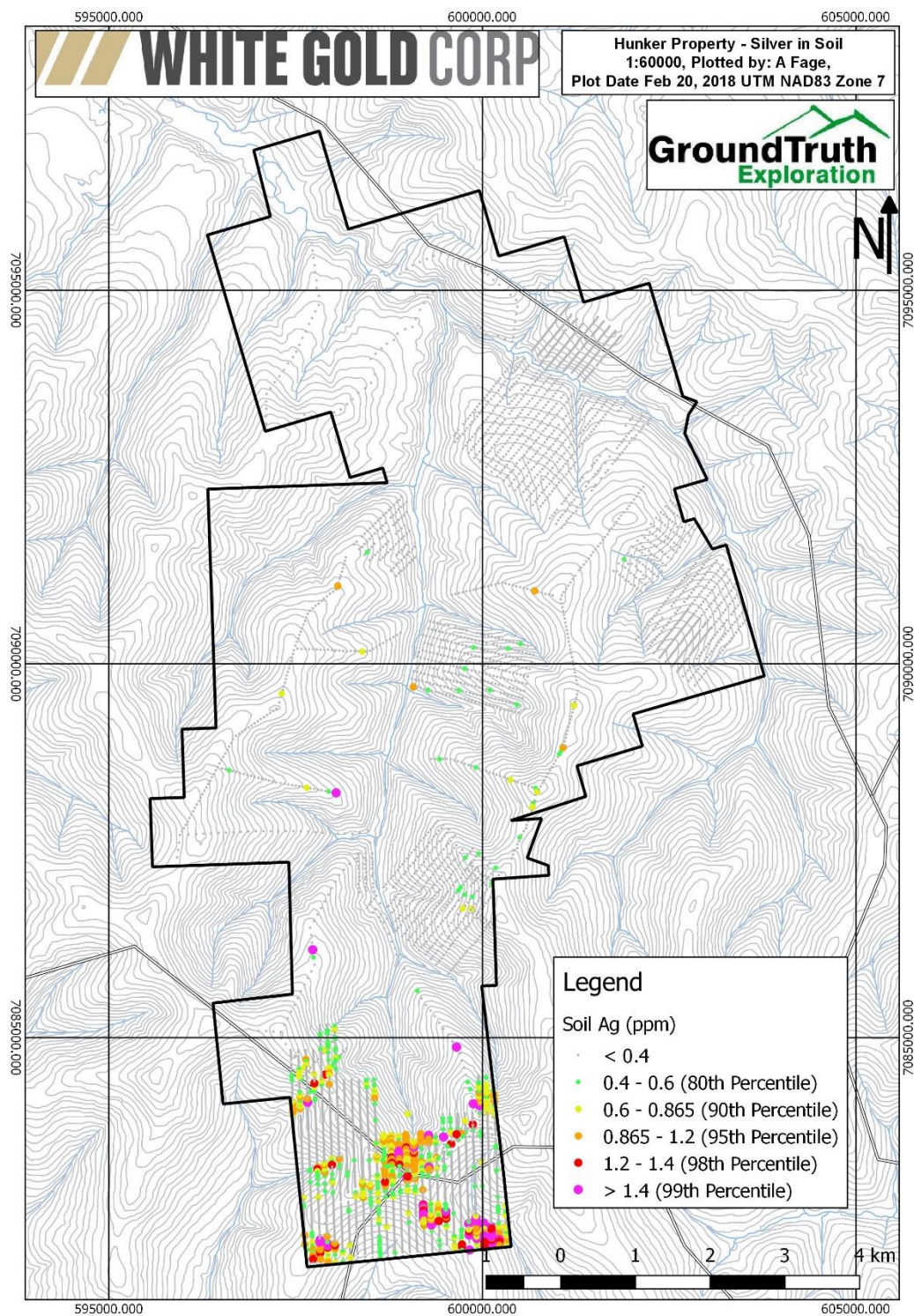


Figure 8: Silver-in-soil, Hunker property

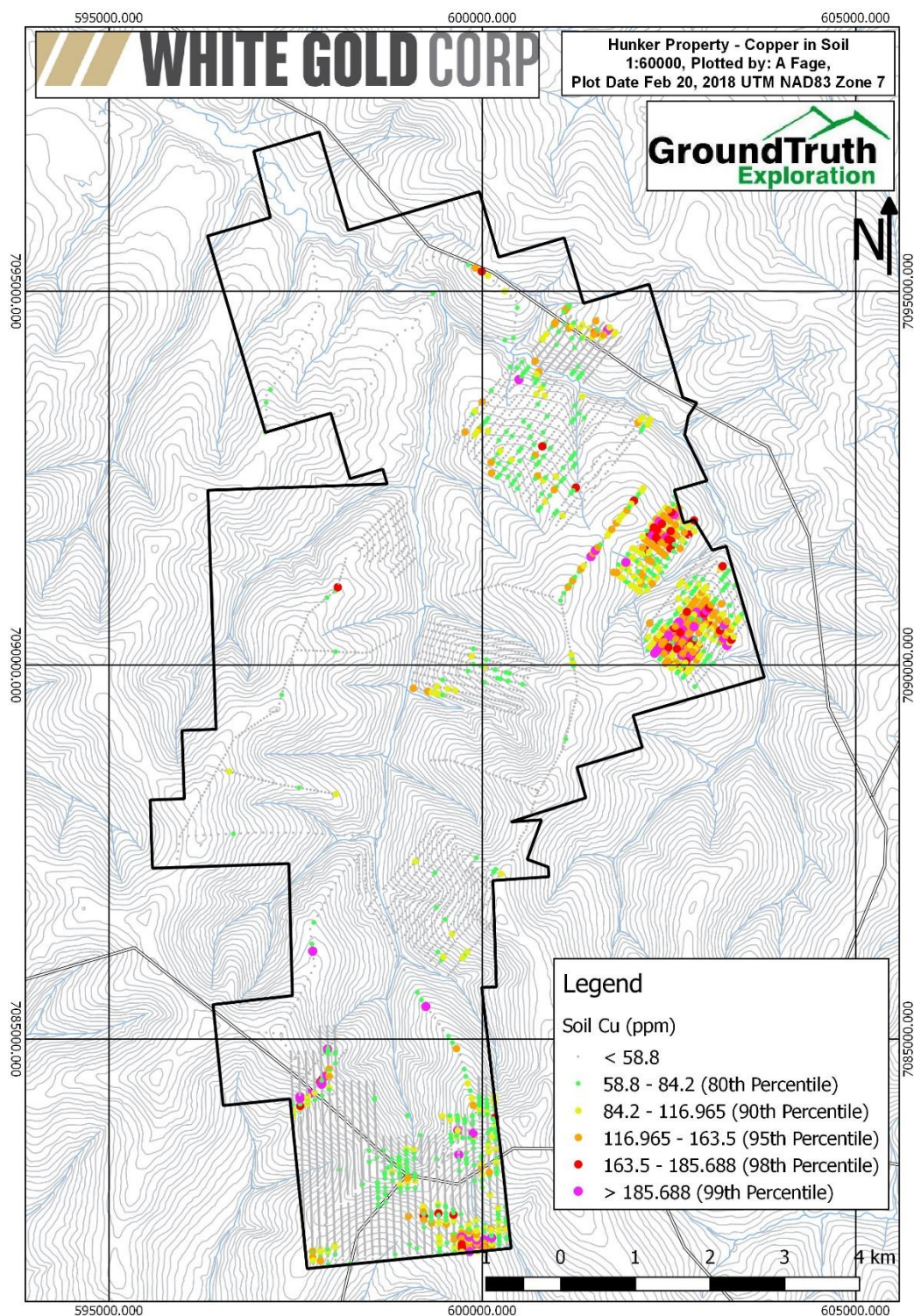


Figure 9: Copper-in-soil, Hunker property

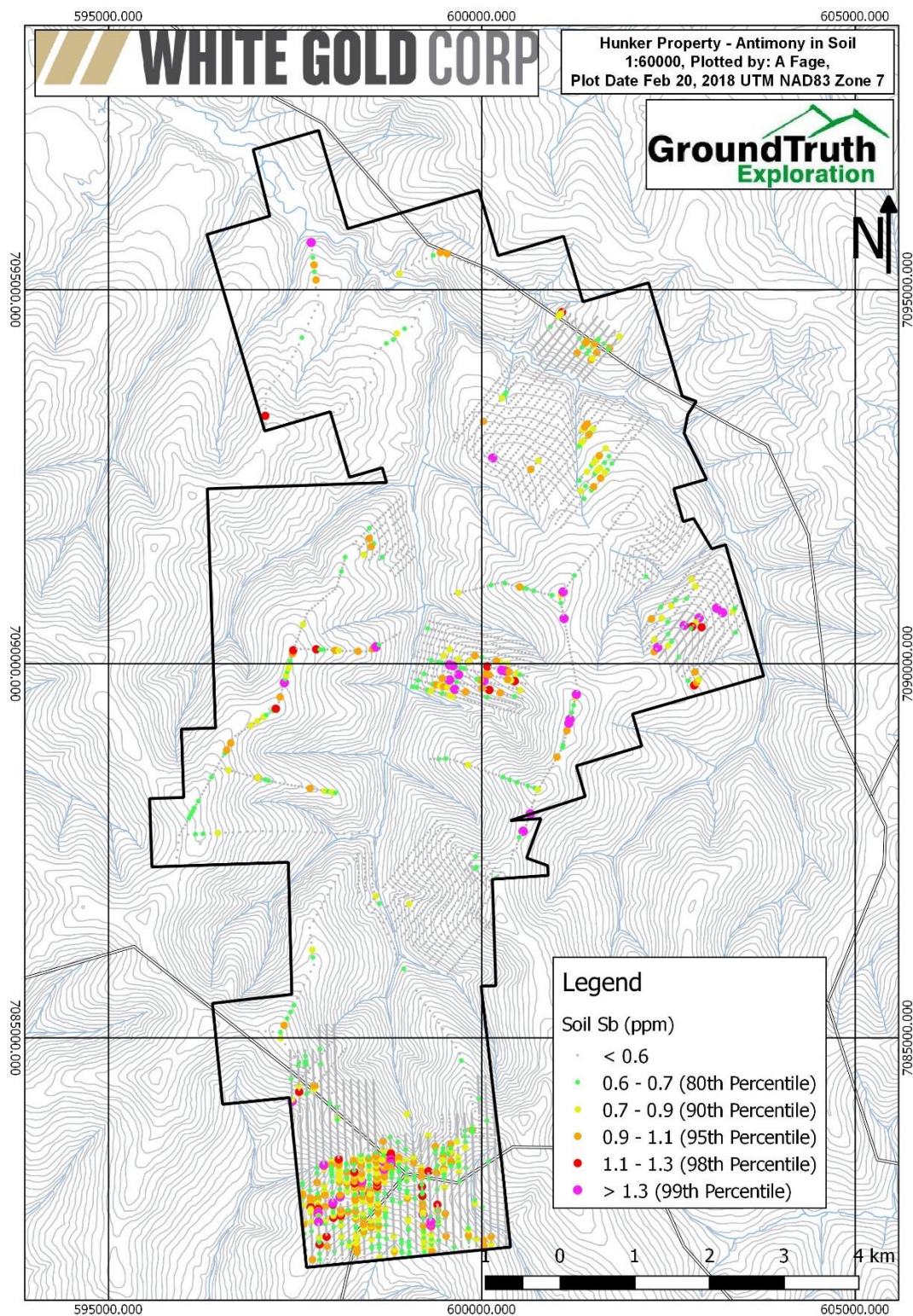


Figure 10: Antimony-in-soil, Hunker Property

6 Prospecting Program

6.1 Introduction

Prospecting at the Hunker property took place on August 14 2017. A total of 7 samples for assay were collected during the program. The objective of the program was to locate and sample the historic Bum showing near Gold Bottom Creek.

6.2 Personnel

The survey was conducted by the following personnel:

- | | |
|--------------------|-----------|
| 1. James Alexander | Geologist |
| 2. Jessica Roberts | Geologist |

6.3 Results

One sample returned values of 2694ppm Cu and 41.1ppm Ag. A location map of samples collected is shown in Figure 11. Assays and location are attached in Appendix D.

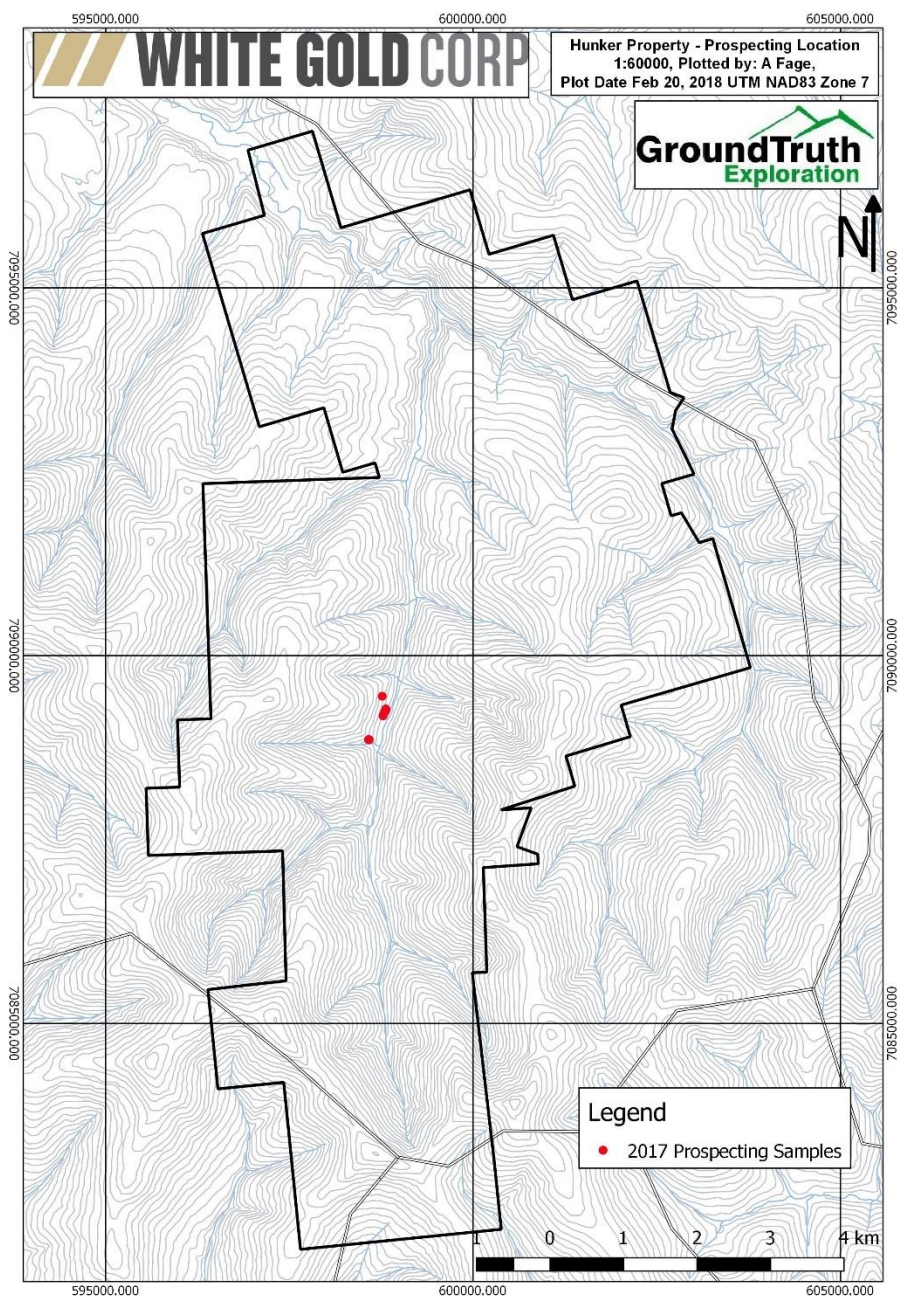


Figure 11: Location of Samples collected at the Bum showing, Hunker Property

7 Drone Survey Program

7.1 Introduction

10km² of drone survey at 12cm resolution was completed on June 11, 2017. This survey produced an orthophoto and terrain elevation model over the property.

7.2 Personnel

The survey was conducted by the following GroundTruth Exploration personnel:

- | | |
|-------------------|--------------------------|
| 1. Julian Moore | Drone Operator |
| 2. Reid Van Kuren | Assistant Drone Operator |

7.3 Drone Overview and Standard Operating Procedure

The Drone survey is typically conducted by one trained operator and one spotter. The lead operator is responsible for coordinating efficient operation of survey and ensuring optimal data quality, the spotter is responsible for maintaining visual contact with the drone, monitoring the radio, and looking for flight path conflicts.

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

UAV Drone:	Ebee UAV 'Drone' with internal GPS and radio link
Camera:	Cannon 16 megapixel camera
Base Station:	Panasonic Toughbook laptop with radio link
Power Generation:	1000watt Honda generator (for battery charging)
GPS units:	2x Promark3 GPS receivers (if GCPs are collected)
Radios:	VHF radio with aircraft frequencies
Processing:	Laptop computer with adequate RAM
Software:	Emotion software for flight planning/monitoring Postflight Terra3D for image Orthorectification

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

- Survey is planned using Emotion software prior to departing for field.
- Spatial resolution, footprint, number of planned flights and launch location is determined.
- Operator arrives onsite and sets up base station, UAV unit and ensures adequate launch and landing path is available.
- Prior to launch, operator calls out on Aircraft frequencies to notify Drone survey in progress. Through duration of survey, operator calls out every 5 minutes to notify aircraft of survey in progress.
- Operator Hand launches aircraft and flies survey as planned with number of required flights and maintains visual contact with the UAV

- Data is downloaded from drone after each flight and inspected for quality.
- After survey, all imagery and drone data files are Orthorectified using Postflight Terra 3D software package.

The collected data is downloaded in the field after every flight and checked for integrity. This allows any low quality imagery to be identified and resurveyed while onsite. The drone imagery data is processed every evening by the lead operator in the field using Postflight Terra 3D software provided by Sensefly. The initial orthorectified image product is generated by an automated process. This image is then cleaned up manually within the Postflight 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.



7.4 Drone Results

The orthorectified image resulting from the drone survey is shown below in Figure 12.

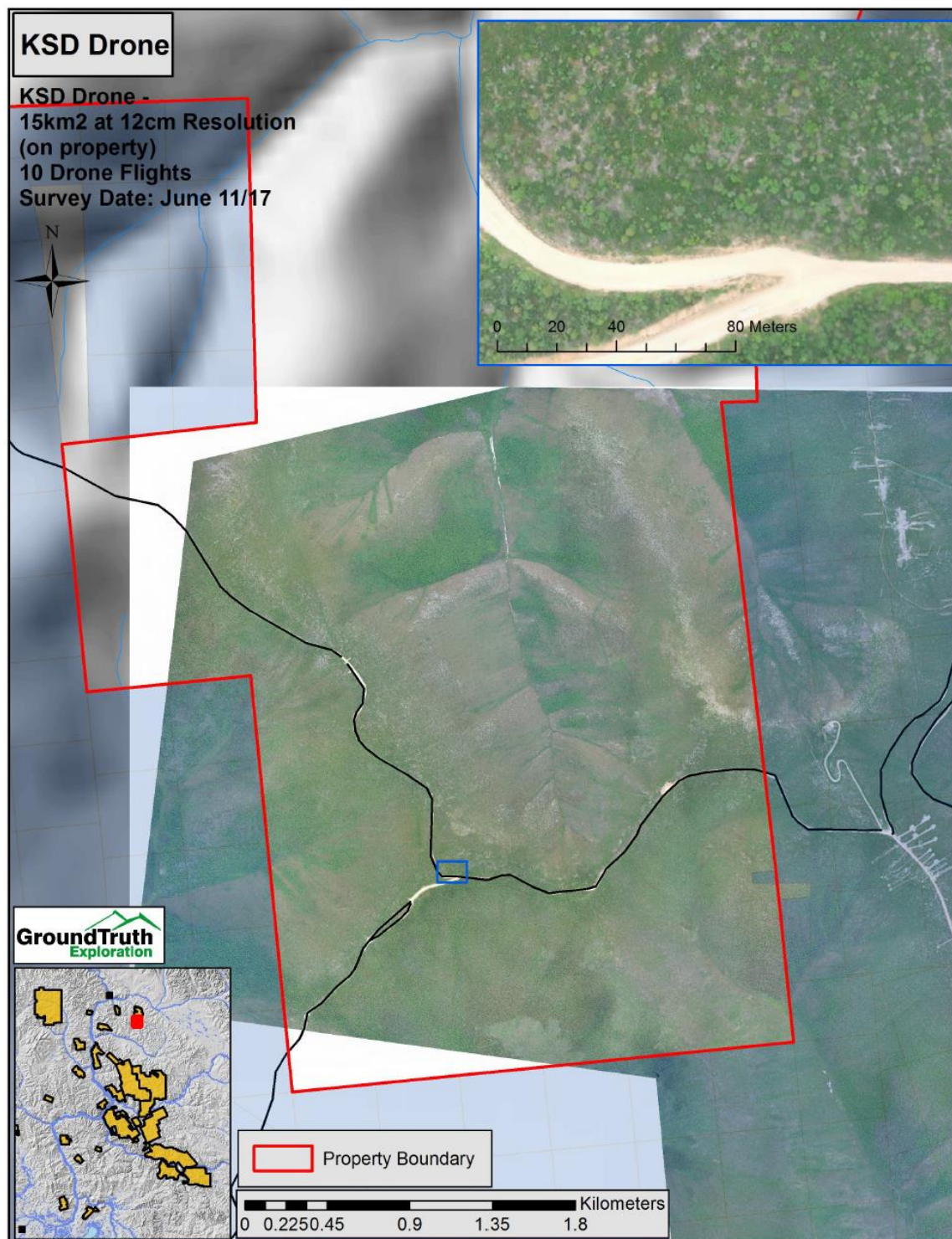


Figure 12: Hunker Orthophoto from the 2017 Drone Survey.

8 Dighem Survey Program

8.1 Introduction

This report describes data acquisition and preliminary data processing results of 2017 airborne frequency domain electromagnetic FDEM and magnetic survey. The survey has been carried out by CGG Canada Services. GroundTruth Exploration was commissioned by White Gold Corp, Toronto, ON to plan the airborne survey and process the data.

Between June 1 and June 17, 2017, airborne-electromagnetic (AEM) and airborne-magnetic (AM) surveys were completed over Hunker claims located in the Yukon Territory. This survey is a part of a comprehensive airborne FDEM and magnetic survey completed in order to target future exploration on the property. Dawson City, Yukon was the base of operations. The airborne-geophysical surveys were undertaken using the DIGHEM frequency-domain system.

8.2 Purpose and Scope

The primary purpose of completing AEM and AM geophysical surveys is to determine the spatial distribution of subsurface electrical and magnetic properties of rocks. This, in turn, will allow the characterization of geophysical signatures for zones of mineralization and support geological models and structural mapping.

8.3 Survey Description

Block 602997-10 (Hunker) and Block 602997-11 (King) of the DIGHEM 2017 survey cover some target areas on the Hunker property. Total coverage of the survey block amounted to 375.2 line-km.

Data were acquired using a multi-coil, multi-frequency electromagnetic system, supplemented by a high-sensitivity cesium magnetometer. A GPS electronic navigation system ensured accurate positioning of the geophysical data with respect to the base map coordinates. The outline of survey areas and layout of flight lines are shown in Figure-13.

Block-10 was flown in an azimuthal direction of NE-SW (NE 244°) with line spacing 100m, and SE-NW (NE 334°) with tie lines spacing 1000m. Block-11 was flown in an azimuthal direction of N-S (NE 355°) with line spacing 100m, and E-W (NE 85°) with tie lines spacing 1150m. Survey coverage consisted of 256.0 line-km of traverse lines and 25.3 line-km of tie lines for Block-10, and 84.2 line-km of traverse lines and 9.7 line-km tie lines for Block-11. The coordinates of the corner points of the survey blocks are

presented in Table 1. Flight lines and total line-kilometers are summarized in Table 2 (after CGG report #602997, Oct. 6, 2017).

Table 1: The coordinates of the corner points of the survey blocks.

Block	Corners	X-UTM (E)	Y-UTM (N)
602997-10 Hunker Block	1	596950	7091069
	2	602362	7093705
	3	602802	7092805
	4	604122	7090102
	5	599612	7087905
	6	598710	7087466
602997-11 King Block			
	1	597440	7083953
	2	600439	7084215
	3	600658	7081719
	4	597659	7081457

Table 2: Flight lines and line kilometers.

Block	Line Numbers	Line direction	Line Spacing	Line km
Block-10 Hunker	100010-100410	NE-SW (244°)	100 metres	256.0
	109010-109060	SE-NW (334°)	1000 metres	25.3
Block-11	110019-110310	N-S (355°)	100 metres	84.2

King	119010-119030	E-W (85°)	1150 metres	9.7

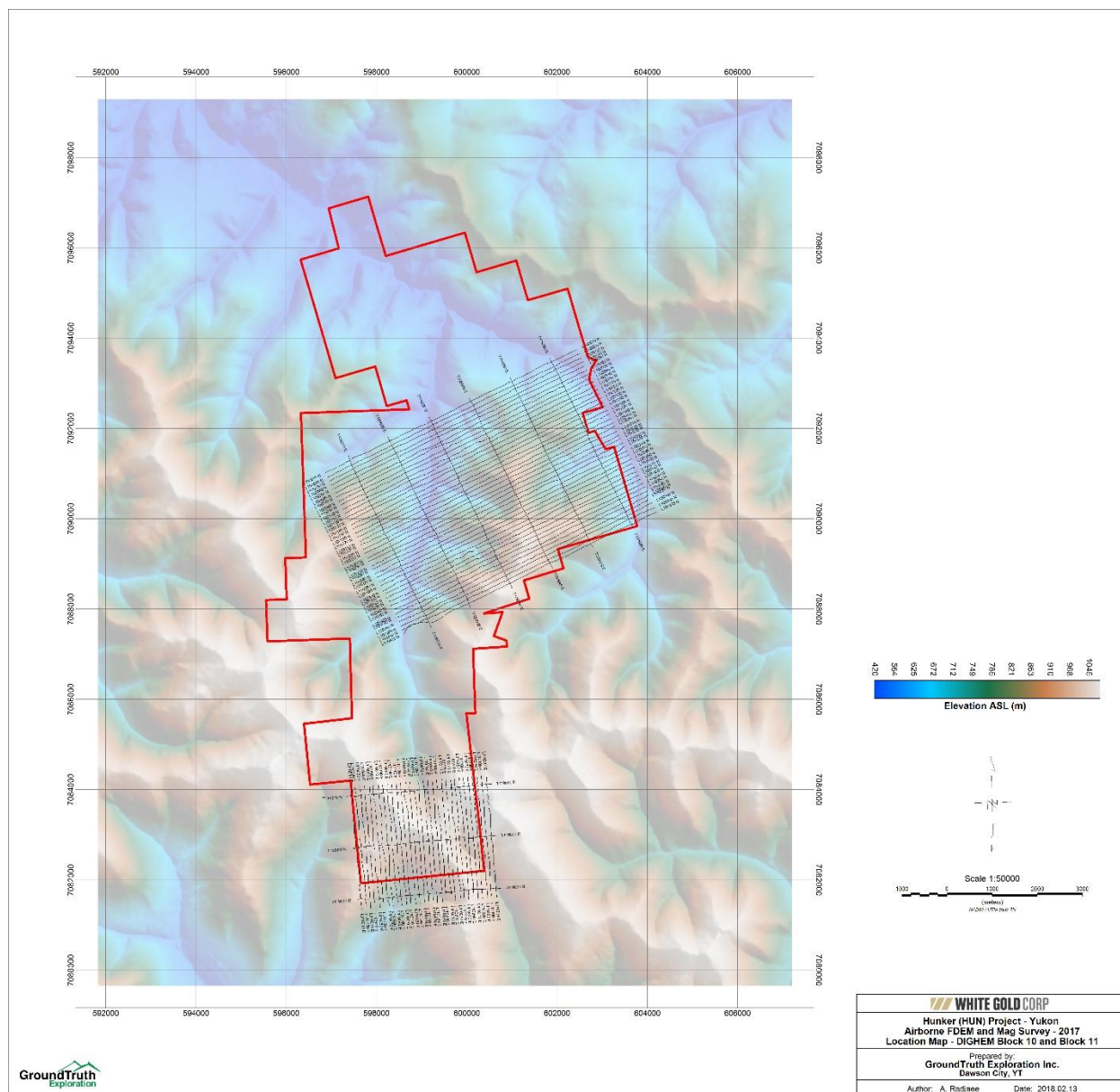


Figure 23: Location of airborne DEM and Mag survey 2017 on Hunker property.

During the survey GPS base stations were set up to collect data to allow post-processing of the positional data for increased accuracy. The location of the GPS base stations are shown in Table 3 (after CGG report #602997, Oct. 6, 2017).

Table 3: GPS Base Station Location.

Location Name	WGS84 Longitude (deg-min-sec)	WGS84 Latitude (deg-min-sec)	Orthometric Height (m)	Date
Dawson City	139° 25' 34.30630" W	64° 03' 41.59730" N	336.380	31-Oct-16
Dawson City Airport	139° 06' 46.0395" W	64° 02' 51.1498" N	381.961	22-May-17
Camp	139° 25' 22.0172" W	63° 04' 00.3615" N	422.181	28-Aug-17

The location of the Magnetic base stations are shown in Table 4 (after CGG report #602997, Oct. 6, 2017).

Table 4: Magnetic Base Station Location.

Station	Location Name	WGS84 Longitude (deg-min-sec)	WGS84 Latitude (deg-min-sec)	Date
A	Dawson City , Yukon	139° 25' 49.22633" W	64° 03' 0.91004" N	31-Oct-16
B	Dawson City , Yukon	139° 25' 48.72540" W	64° 03' 1.10627" N	23-Nov-16
C	Dawson City , Yukon Airport	139° 7' 47.4005" W	64° 02' 25.8578" N	22-May-17
D	Dawson City , Yukon	139° 7' 47.4087" W	64° 02' 25.7904" N	22-May-17
D	Camp	139° 25' 19.572" W	63° 04' 3.144" N	5-Aug-17
E	Camp	139° 25' 19.13448" W	63° 04' 3.00396" N	5-Aug-17

8.4 Survey Theory

8.4.1 Electromagnetic surveys

Electromagnetic (EM) methods can be used to map subsurface variability in electrical properties caused by changes in lithology, structure, alteration, and contamination due to mining activity. These methods are sensitive to low resistivity targets and thus can be used to map the location and moderately conductive bodies. The depth of investigation can range from less than a few tens through hundreds of meters depending on amounts of subsurface conductivity and applied frequency. Resolution of targets and detectability tend to decrease with increasing depth of burial.

The data include in-phase and quadrature components for each frequency. The electrical conductivity of rocks can be modeled by inversion of electromagnetic data. 2D grids and derivative products provide information for mapping lithological and structural features or linear conductors.

In EM surveys, a transmitter generates a time-varying electromagnetic field in the earth, known as the primary field. This field gives rise to small time-varying voltages in the earth. Where the earth is conductive, the voltages drive small time-varying flows of current, which give rise to electromagnetic fields of their own called secondary fields. EM surveys measure the earth's willingness to conduct electricity, or conductivity in siemens/m. The higher the conductivity, the more current will flow in the earth for a given electrical field strength.

Any time-harmonic signal can be expressed by an amplitude factor times an oscillating term of a sinusoidal function. We denote the transmitter current as $I_0 \cos \omega t$, which indicates a peak current I_0 and a fixed angular frequency ω . According to Biot-Savart's law, the primary magnetic field generated by this current is $H_p \cos \omega t$, where H_p can be determined using the distance from the transmitter to an observation point in the whole-space, and the primary field is entirely in-phase with the transmitter current. Then the primary field induces eddy currents in the subsurface. In most cases, this induced current is no longer in-phase with the primary and usually bears a phase lag ψ . So the secondary magnetic field due to the induction has the form $H_s \cos(\omega t - \psi)$, where the amplitude H_s is determined by the distance and geometric coupling. Finally, at the location of the receiver, we can observe the primary field $H_p \cos \omega t$ the phase-lagged secondary field $H_s \cos(\omega t - \psi)$.

An FDEM system in practice only measures the secondary field $H_s \cos(\omega t - \psi)$. The convention in FDEM is to use the primary field $H_p \cos \omega t$ as the reference to describe

the secondary field data. First, the secondary field is considered as a linear combination of two orthogonal sinusoidal signals

$$H_s \cos(\omega t - \psi) = H_s \cos(\psi) \cdot \cos(\omega t) + H_s \sin(\psi) \cdot \sin(\omega t)$$

where $\cos(\psi) \cdot \cos(\omega t)$ represents a signal in-phase with the source and $\sin(\psi) \cdot \sin(\omega t)$ represents a signal out of phase with the source. The first term is also called “real” and the second term “imaginary” or “quadrature”. Next, the amplitudes of the two sinusoidal signals are normalized by the amplitude of the primary field at the receiver to obtain the data in real and imaginary components. Figure 14 shows primary and secondary fields, transmitter and receiver. The normalization provides significant convenience, as it eliminates the need for timing the measured signals and the effect of the transmitter and receiver's dipole moments. Because the data are relative quantities, they are expressed in percent or most often in parts per million (ppm).

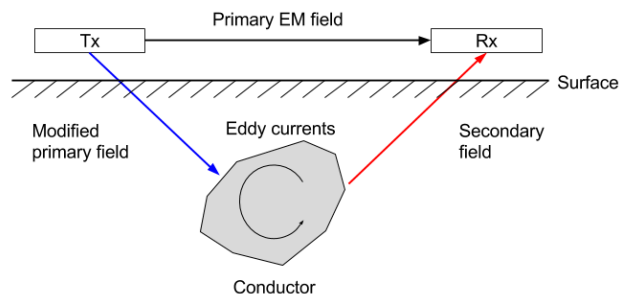


Figure 14: A time-varying electrical current generates a primary magnetic field which induces secondary currents in the subsurface, and creates the secondary magnetic field. Both the primary and secondary fields reach the receiver (2017, GeoSci Developers).

8.4.2 Magnetic surveys

Magnetic is the most commonly used geophysical method for gold, diamond, platinum group metals and base metal exploration. Measurements of the magnetic field contain information about subsurface variations in magnetic susceptibility. Data can be acquired in the air (planes, satellites), on the ground (stationary, moving platforms, marine) and underground (boreholes, tunnels). The measurements record the sum of Earth's field and fields induced in magnetic materials. More magnetic (i.e. susceptible) materials have stronger induced fields. Removing Earth's field from the observations yields anomalous fields that can be interpreted in terms of where magnetic material lies and also its susceptibility and shape. Processed data are presented as maps or profiles, and advanced processing, involving

inversion, yields parametric structures or 3D models of the subsurface susceptibility distribution.

Magnetic surveying is extremely versatile and can be applied in many areas in the geosciences including geologic mapping and mineral exploration. In gold exploration, magnetics helps in direct detection of associated mineralization and for mapping large- and local-scale structure (faults, dikes, and shear zones).

To a first approximation, Earth's magnetic field resembles a large dipolar source with a negative pole in the northern hemisphere and a positive pole in the southern hemisphere. The dipole is offset from the center of the earth and also tilted. The north magnetic pole at the surface of the earth is approximately at Melville Island. The field at any location on the Earth is generally described in terms described of magnitude $|B|$, declination D and inclination I as illustrated in Figure 15.

When the magnetic source field is applied to earth materials it causes the material to become magnetized. Magnetization is dipole moment per unit volume. This is a vector quantity because a dipole has a strength and a direction. For many cases of interest, the relationship between magnetization M and the source H (earth's magnetic field) is given by:

$$M = \kappa H$$

where κ is the magnetic susceptibility. Thus the magnetization has the same direction as the earth's field. Because Earth's field is different at different locations on the earth, then the same object gets magnetized differently depending on where it is situated. As a consequence, magnetic data from a steel drum buried at the north pole will be very different from that from a drum buried at the equator.

The magnetic field that results from the magnetized earth is evaluated with the equation:

$$B_A = \frac{\mu_0}{4\pi} \int_V M \cdot \nabla^2 \left(\frac{1}{r} \right) dV$$

where μ_0 is the magnetic permeability of free space, M is the magnetization per unit volume V , and r defines the distance between the object and the location of the observer. This magnetic field is referred to as the "secondary" field or sometimes the "anomalous" field B_A . For geological or engineering problems, these anomalous fields are the data to be interpreted, and this is what we seek to measure.

When the magnetization is governed by the linear relationship (1) then the above anomalous field can be written as:

$$B_A = \frac{\mu_0}{4\pi} \int_V \kappa H_0 \cdot \nabla^2 \left(\frac{1}{r} \right) dV$$

where $(\cdot)$ is a vector inner product. This means that B_x is the projection of the vector B onto a unit vector in the x -direction. Similar understandings exist for B_y and B_z .

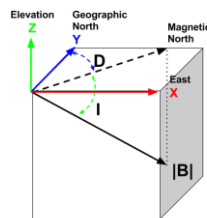


Figure 15: Earth's magnetic field, declination (D) and inclination angles (2017, GeoSci Developers).

8.5 Field Survey

Details of system information and survey parameters including aircraft, geophysical equipment, quality control and in-field data processing are presented in Appendix-A of this report.

8.6 Results and Interpretation

Survey flight lines of DIGHEM 2017 for each block are shown in Figure 16, apparent resistivity maps for different frequencies are presented in Figure 17 through Figure 21. Total magnetic intensity maps are presented in Figure 22. The data can be processed in advanced levels using inversion techniques, and be presented in 3D formats for detail analysis and visualization. This will ensure that 3D geological models respect a consistent structural, stratigraphic, and topological framework in addition to ensuring consistency between different geophysical models.

The combination of geophysical models and geological information allows some general correlations to be made. Commonly, the geologic setting of epithermal deposits includes faulted, fractured, and brecciated rocks. Predominantly, geophysical signatures of epithermal deposits for electrical resistivity and magnetic susceptibility can be characterized as:

- Short-wavelength magnetic anomalies are common over volcanic terranes because of variable magnetizations and polarizations. This pattern may contrast with an area of moderate to intense alteration that will display a longer-

wavelength low, often linear in the case of vein systems, caused by the destruction of magnetite. Local magnetic highs may be associated with intrusions. Magnetic lows will be associated with alteration, however, discriminating such lows from the background may be difficult on a deposit scale.

- Regional resistivity is generally low for weathered and altered rocks as compared to high resistivity typical of buried intrusions. A resistivity high flanked by resistivity lows is characteristic of a simple and idealized quartz vein system with associated argillic to propylitic alteration. However, there may be geologic structures and petrologic complications that distort this ideal picture. More generally, resistivity lows will be associated with: 1) Sulfides when concentrated and connected at about 5-percent volume or more, 2) argillic alteration, and 3) increased porosity related to wet, open fractures and brecciation. Resistivity highs will be associated with zones of silicification, intrusion, or basement uplifts.

The apparent resistivity maps of airborne FDEM survey (Figure 17 to Figure 21) allow the geological structures to be remapped based on their conductivity. In Block-10, the northern block, the EM results define a set of sub-parallel ESE-WNW trending conductors. The east/northeastern part of this block shows higher conductivity background comparing to the central/southwestern parts of the block. This might result from a change in lithology. There is also another linear conductor feature striking SSW-NNE and broken at several locations with the set of above mentioned sub-parallel ESE-WNW conductors. In Block-11, the conductivity values are higher at the southern part of the block comparing to the north. Also, these results allow us to identify multiple SE-NW conductive features body in Block-11. The boundaries and extension of the conductive features are more visible in higher frequency response. The conductive features are mappable after more processing works.

The total magnetic intensity TMI map (Figure 22) shows the magnetic field amplitude variation, which is within a range of 56800nT to 58150nT with a mean value of 57125nT for Block-10, and about ± 100 nT near 57050nT for Block-11. A very complex pattern of the high magnetic features is located at the northeastern part of Block-10 and might correspond to magmatic intrusions or change in lithology. The magnetic results also define series of low magnetic linear features in that area predominantly SE-NW trending. These low magnetic anomalous features are almost coincident with similar features from EM results. In the Block-11, the magnetic intensity is lower, in general, comparing to the Block-10. A major low magnetic linear anomaly striking SW-NE exists at the center of Block-11.

The lineament interpretations of EM and magnetic results can better identify lithological and structures features as well as the fracture zones. Advanced inversion modeling and interpretation of EM and magnetic data is recommended for detailed and property scale explorational targeting works.

8.7 Deliverables

Report in pdf format

AIRBORNE FDEM AND MAGNETIC SURVEY for Hunker Project, February 2018

Database in Geosoft format

602997_Archive-10.gdb

602997_Archive-11.gdb

Maps in pdf format

DGM2017_HUN_AppResisivity900Hz_Blkl-10&11.pdf
DGM2017_HUN_AppResisivity1000Hz_Blkl-10&11.pdf
DGM2017_HUN_AppResisivity5500Hz_Blkl-10&11.pdf
DGM2017_HUN_AppResisivity7200Hz_Blkl-10&11.pdf
DGM2017_HUN_AppResisivity56kHz_Blkl-10&11.pdf
DGM2017_HUN_TMI_Blkl-10&11.pdf
DGM2017_HUN_Flight_Lines_Blkl-10&11.pdf
DGM2017_HUN_LocationMap.pdf

Apparent resistivity map at freq. 900 Hz Block-10&11
Apparent resistivity map at freq. 1000 Hz Block-10&11
Apparent resistivity map at freq. 5500 Hz Block-10&11
Apparent resistivity map at freq. 7200 Hz Block-10&11
Apparent resistivity map at freq. 56 kHz Block-10&11
Total Magnetic Intensity Block-10&11
DIGHEM 2017 Flight Lines Block-10&11
Location Map

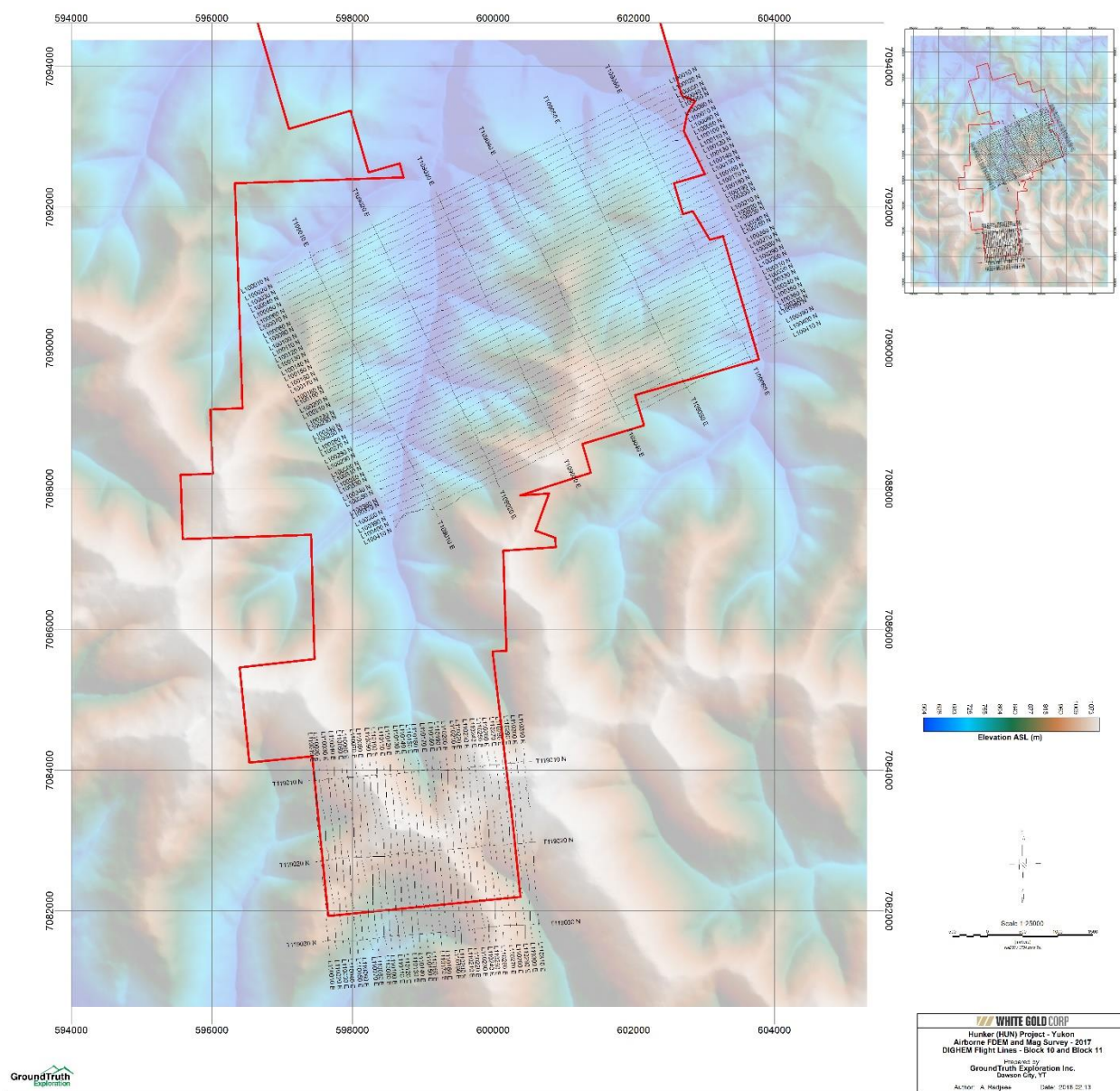


Figure 16: Flight line of DIGHEM 2017 survey, Block-10 and Block-11.

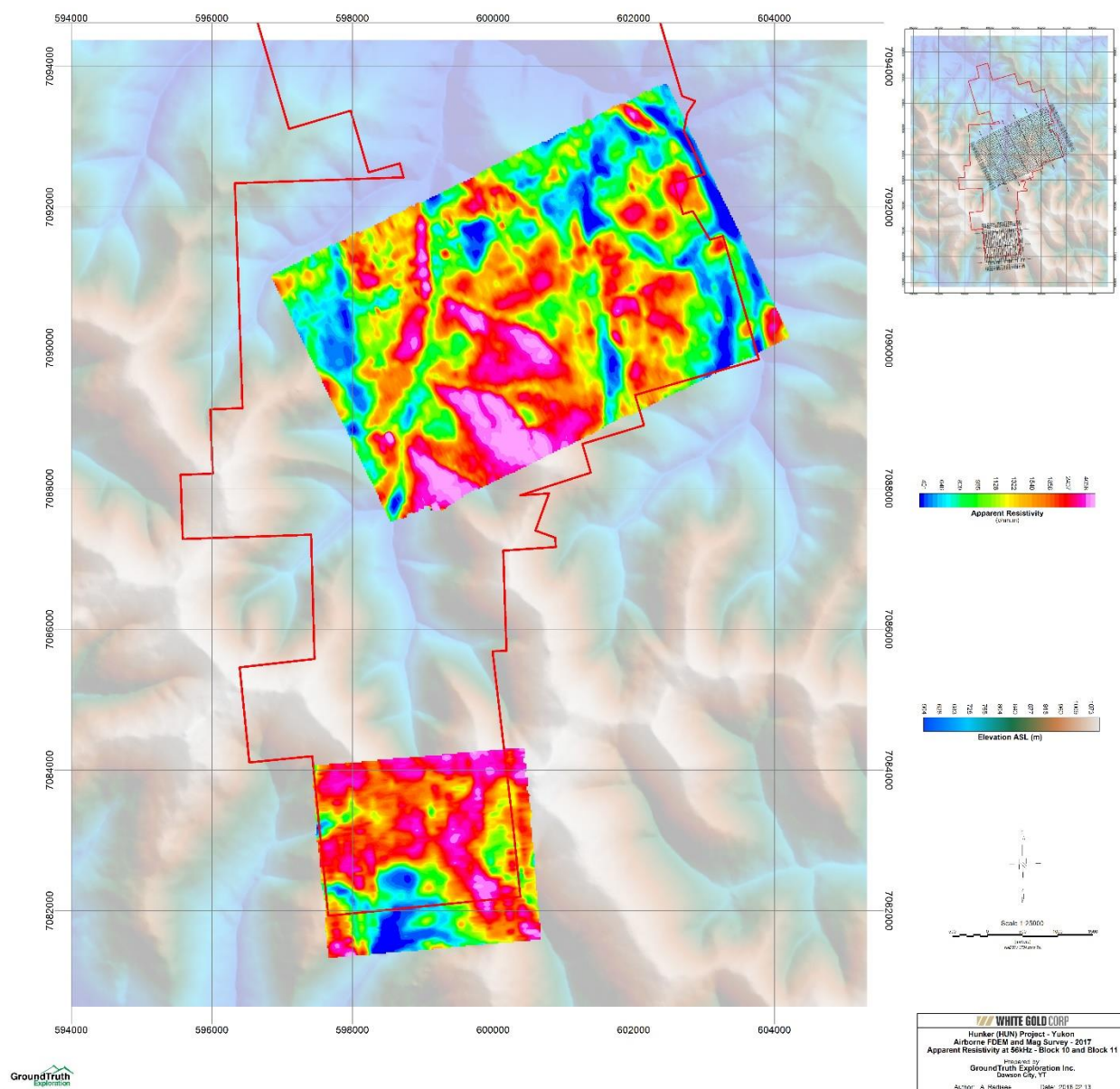
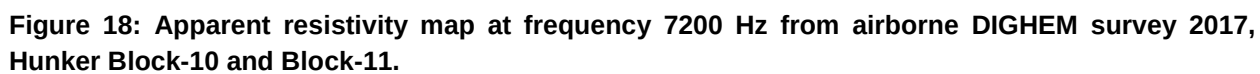


Figure 17: Apparent resistivity map at frequency 56 kHz from airborne DIGHEM survey 2017, Hunker Block-10 and Block-11.



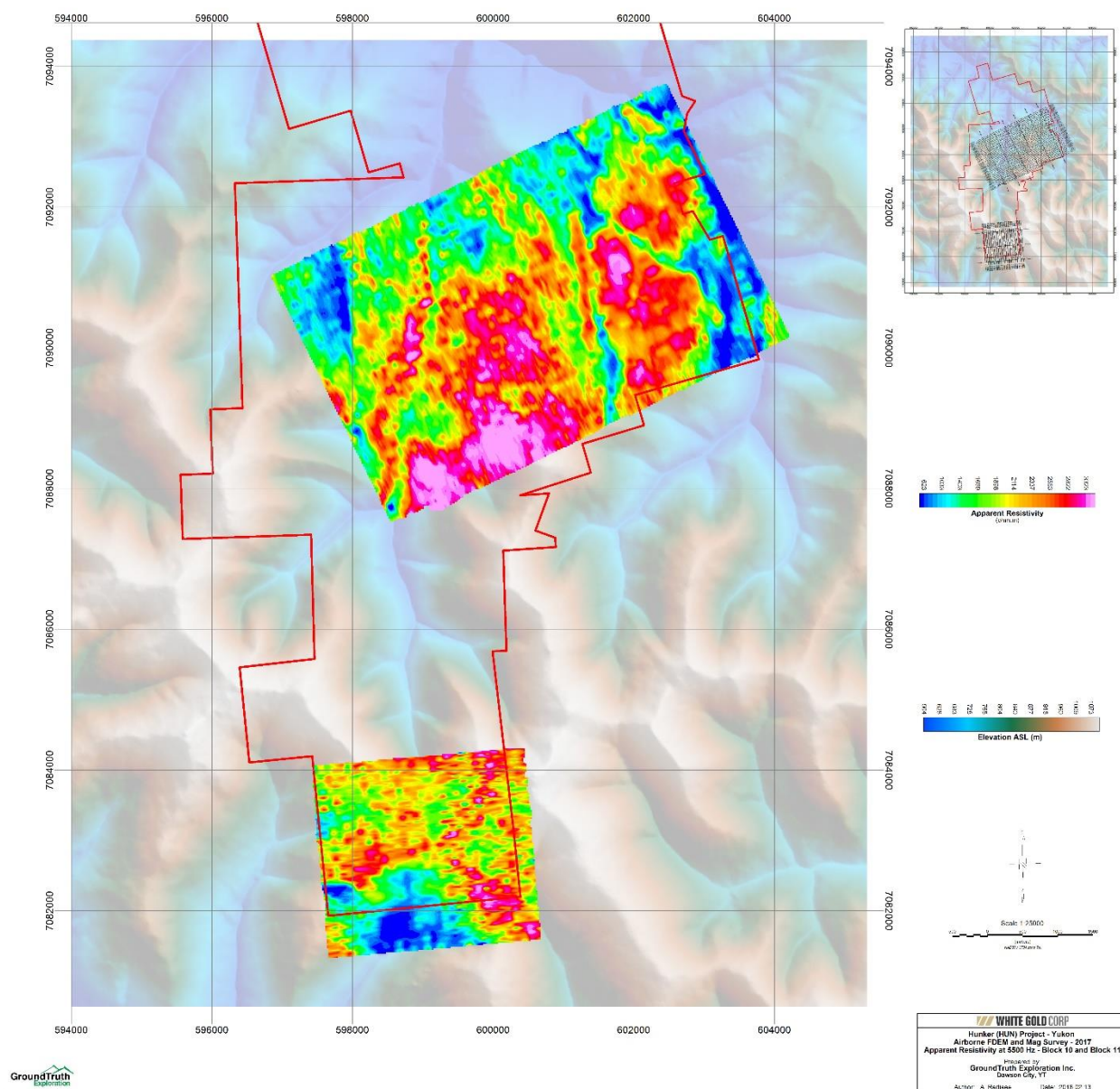


Figure 19: Apparent resistivity map at frequency 5500Hz from airborne DIGHEM survey 2017, Hunker Block-10 and Block-11.

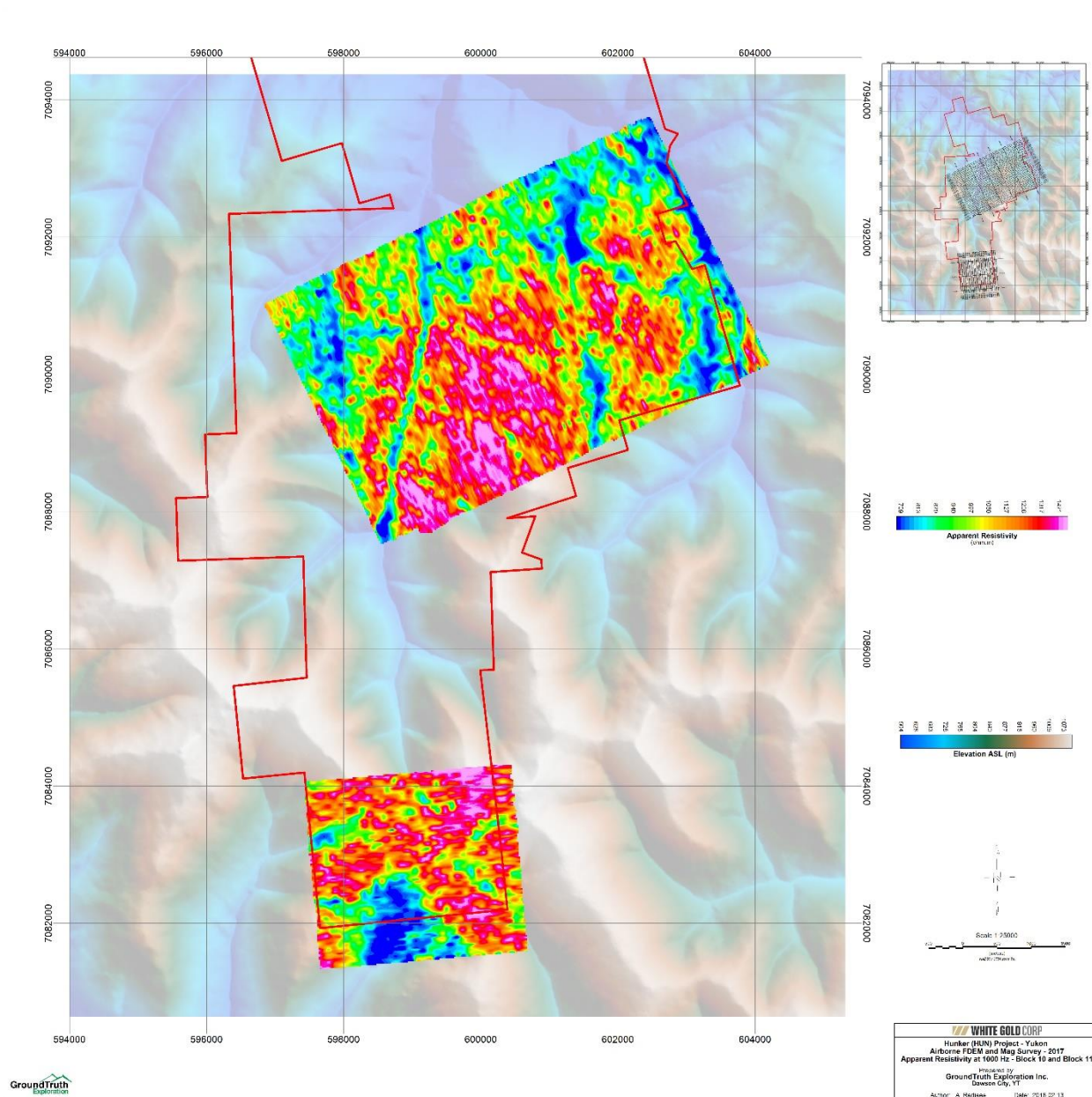


Figure 20: Apparent resistivity map at frequency 1000Hz from airborne DIGHEM survey 2017, Hunker Block-10 and Block-11.

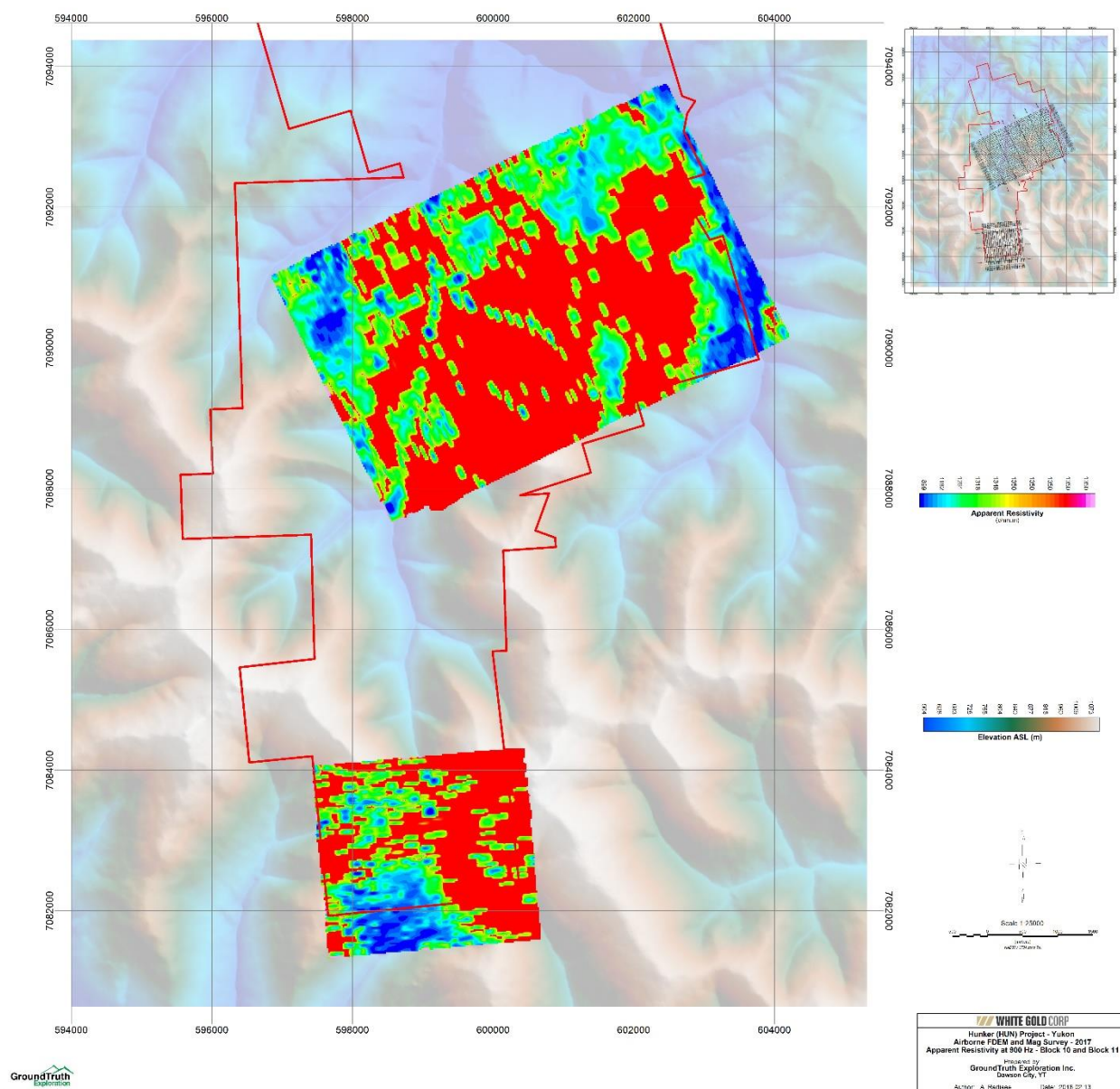


Figure 21: Apparent resistivity map at frequency 900 Hz from airborne DIGHEM survey 2017, Hunker Block-10 and Block-11.

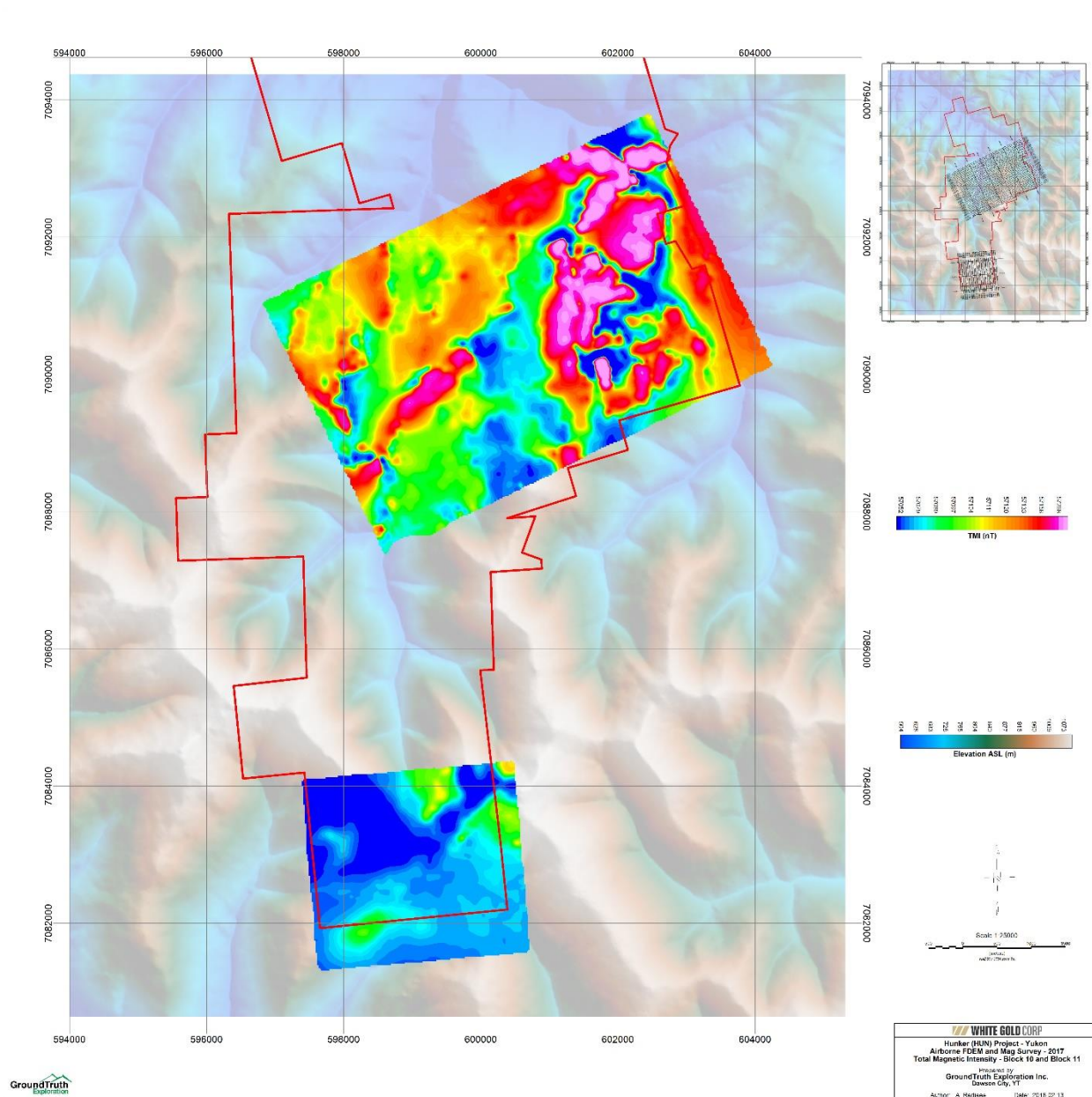


Figure 22: Total Magnetic Intensity from airborne DIGHEM survey 2017, Hunker Block-10 and Block-11.

9 Discussion and Interpretation

9.1 Soil Sampling Program

The 2017 soil sampling program was designed to sample untested ridges and spurs throughout the property at 50m spacing. This program was successful in identifying a 3 station gold in soil anomaly (57.6, 56.3, 23 ppb Au in soil) on the easternmost ridge sampled in this program. This anomaly also contains elevated As and Sb.

9.2 Drone Survey

The Drone image provides an excellent basemap for exploration and infrastructure planning and baseline environmental surveys.

9.3 Dighem Survey

The lineament interpretations of EM and magnetic results can better identify lithological and structures features as well as the fracture zones. Advanced inversion modeling and interpretation of EM and magnetic data is recommended for detailed and property scale explorational targeting works.

9.4 Interpretation

The gold in soil anomaly identified in 2017 reconnaissance soil sampling is prospective for gold mineralization and requires further work.

10 Recommendations

1. A detailed soil sample grid should be placed over the newly identified gold in soil anomaly from the ridge and spur reconnaissance sampling.
2. A detailed interpretation of the 2017 Dighem survey.

11 Costs

Hunker Expenditures	Amount
Groundtruth Soil Sampling Program	\$21,014.44
Groundtruth Geology Labour (Prospecting)	\$1,299.38
Bureau Veritas Assay Services	\$179.78
Drone Survey	\$3,597.30
Dighem Survey	\$45,492.70
Total 2017 expenditures on the Hunker Property	\$71,583.60

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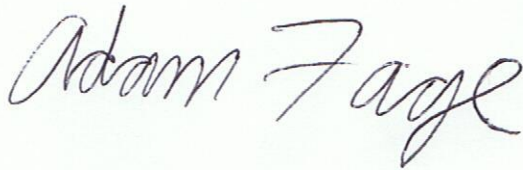
13 Qualification

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.

Dated this 20th day of February, 2018.

Respectfully submitted

Adam Fage

A handwritten signature in black ink that reads "Adam Fage". The signature is written in a cursive style on a light green rectangular background.

Appendix A: Claims List

Grant Number	Name	Owner	Operator
YC23516	Crown Jewel 1	White Gold Corp. - 100%	White Gold Corp. - 100%
YC23517	Crown Jewel 2	White Gold Corp. - 100%	White Gold Corp. - 100%
YC23518	Crown Jewel 3	White Gold Corp. - 100%	White Gold Corp. - 100%
YC23519	Crown Jewel 4	White Gold Corp. - 100%	White Gold Corp. - 100%
YC23520	Crown Jewel 5	White Gold Corp. - 100%	White Gold Corp. - 100%
YC23521	Crown Jewel 6	White Gold Corp. - 100%	White Gold Corp. - 100%
YC23522	Crown Jewel 7	White Gold Corp. - 100%	White Gold Corp. - 100%
YC23523	Crown Jewel 8	White Gold Corp. - 100%	White Gold Corp. - 100%
YC23524	Crown Jewel 9	White Gold Corp. - 100%	White Gold Corp. - 100%
YC23525	Crown Jewel 10	White Gold Corp. - 100%	White Gold Corp. - 100%
YC23526	Crown Jewel 11	White Gold Corp. - 100%	White Gold Corp. - 100%
YC23527	Crown Jewel 12	White Gold Corp. - 100%	White Gold Corp. - 100%
YC23528	Crown Jewel 13	White Gold Corp. - 100%	White Gold Corp. - 100%
YC23529	Crown Jewel 14	White Gold Corp. - 100%	White Gold Corp. - 100%
YC23530	Crown Jewel 15	White Gold Corp. - 100%	White Gold Corp. - 100%
YC23531	Crown Jewel 16	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34425	Crown Jewel 17	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34426	Crown Jewel 18	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34427	Crown Jewel 19	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34428	Crown Jewel 20	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34429	Crown Jewel 21	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34430	Crown Jewel 22	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34431	Crown Jewel 23	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34432	Crown Jewel 24	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34433	Crown Jewel 25	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34434	Crown Jewel 26	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34435	Crown Jewel 27	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34436	Crown Jewel 28	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34437	Crown Jewel 29	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34438	Crown Jewel 30	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34439	Crown Jewel 31	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34440	Crown Jewel 32	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34441	Crown Jewel 33	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34442	Crown Jewel 34	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34643	Crown Jewel 35	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34644	Crown Jewel 36	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34645	Crown Jewel 37	White Gold Corp. - 100%	White Gold Corp. - 100%

Grant Number	Name	Owner	Operator
YC34646	Crown Jewel 38	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34647	Crown Jewel 39	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34648	Crown Jewel 40	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34649	Crown Jewel 41	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34650	Crown Jewel 42	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35000	Crown Jewel 43	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35001	Crown Jewel 44	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35002	Crown Jewel 45	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35003	Crown Jewel 46	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35004	Crown Jewel 47	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35005	Crown Jewel 48	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35006	Crown Jewel 49	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35007	Crown Jewel 50	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35008	Crown Jewel 51	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35009	Crown Jewel 52	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35010	Crown Jewel 53	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35011	Crown Jewel 54	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35012	Crown Jewel 55	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35013	Crown Jewel 56	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35014	Crown Jewel 57	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35015	Crown Jewel 58	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35016	Crown Jewel 59	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35017	Crown Jewel 60	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35018	Crown Jewel 61	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35019	Crown Jewel 62	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35020	Crown Jewel 63	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35021	Crown Jewel 64	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35022	Crown Jewel 65	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35023	Crown Jewel 66	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35024	Crown Jewel 67	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35025	Crown Jewel 68	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35026	Crown Jewel 69	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35027	Crown Jewel 70	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35028	Crown Jewel 71	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35029	Crown Jewel 72	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35030	Crown Jewel 73	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35031	Crown Jewel 74	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35032	Crown Jewel 75	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35033	Crown Jewel 76	White Gold Corp. - 100%	White Gold Corp. - 100%

Grant Number	Name	Owner	Operator
YC35034	Crown Jewel 77	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35035	Crown Jewel 78	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35036	Crown Jewel 79	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35037	Crown Jewel 80	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35038	Crown Jewel 81	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35039	Crown Jewel 82	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35040	Crown Jewel 83	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35041	Crown Jewel 84	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35042	Crown Jewel 85	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35043	Crown Jewel 86	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35044	Crown Jewel 87	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35045	Crown Jewel 88	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35046	Crown Jewel 89	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35047	Crown Jewel 90	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35048	Crown Jewel 91	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35049	Crown Jewel 92	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35050	Crown Jewel 93	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35051	Crown Jewel 94	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35052	Crown Jewel 95	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35053	Crown Jewel 96	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35054	Crown Jewel 97	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35055	Crown Jewel 98	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35056	Crown Jewel 99	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35057	Crown Jewel 100	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35674	Crown Jewel 101	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35675	Crown Jewel 102	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35676	Crown Jewel 103	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35677	Crown Jewel 104	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35678	Crown Jewel 105	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35679	Crown Jewel 106	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35680	Crown Jewel 107	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35681	Crown Jewel 108	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35682	Crown Jewel 109	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35683	Crown Jewel 110	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35684	Crown Jewel 111	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35685	Crown Jewel 112	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35686	Crown Jewel 113	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35687	Crown Jewel 114	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35688	Crown Jewel 115	White Gold Corp. - 100%	White Gold Corp. - 100%

Grant Number	Name	Owner	Operator
YC35689	Crown Jewel 116	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35690	Crown Jewel 117	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35691	Crown Jewel 118	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35692	Crown Jewel 119	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35693	Crown Jewel 120	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35694	Crown Jewel 121	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35695	Crown Jewel 122	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35696	Crown Jewel 123	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35697	Crown Jewel 124	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35698	Crown Jewel 125	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35699	Crown Jewel 126	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35700	Crown Jewel 127	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35701	Crown Jewel 128	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35702	Crown Jewel 129	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35703	Crown Jewel 130	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35704	Crown Jewel 131	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35705	Crown Jewel 132	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35756	Crown Jewel 133	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35757	Crown Jewel 134	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35758	Crown Jewel 135	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35759	Crown Jewel 136	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35760	Crown Jewel 137	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35761	Crown Jewel 138	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35762	Crown Jewel 139	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35763	Crown Jewel 140	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35706	Crown Jewel 141	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35707	Crown Jewel 142	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35708	Crown Jewel 143	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35709	Crown Jewel 144	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35764	Crown Jewel 145	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35765	Crown Jewel 146	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35766	Crown Jewel 147	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35767	Crown Jewel 148	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35768	Crown Jewel 149	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35769	Crown Jewel 150	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35710	Crown Jewel 151	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35711	Crown Jewel 152	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35712	Crown Jewel 153	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35713	Crown Jewel 154	White Gold Corp. - 100%	White Gold Corp. - 100%

Grant Number	Name	Owner	Operator
YC35714	Crown Jewel 155	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35715	Crown Jewel 156	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35716	Crown Jewel 157	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35717	Crown Jewel 158	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35718	Crown Jewel 159	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35719	Crown Jewel 160	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35720	Crown Jewel 161	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35721	Crown Jewel 162	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35722	Crown Jewel 163	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35723	Crown Jewel 164	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35724	Crown Jewel 165	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35725	Crown Jewel 166	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35726	Crown Jewel 167	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35727	Crown Jewel 168	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35728	Crown Jewel 169	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35729	Crown Jewel 170	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35730	Crown Jewel 171	White Gold Corp. - 100%	White Gold Corp. - 100%
YC35731	Crown Jewel 172	White Gold Corp. - 100%	White Gold Corp. - 100%
YC19934	King 1	White Gold Corp. - 100%	White Gold Corp. - 100%
YC19935	King 2	White Gold Corp. - 100%	White Gold Corp. - 100%
YC19936	King 3	White Gold Corp. - 100%	White Gold Corp. - 100%
YC19937	King 4	White Gold Corp. - 100%	White Gold Corp. - 100%
YC19938	King 5	White Gold Corp. - 100%	White Gold Corp. - 100%
YC19939	King 6	White Gold Corp. - 100%	White Gold Corp. - 100%
YC19940	King 7	White Gold Corp. - 100%	White Gold Corp. - 100%
YC19941	King 8	White Gold Corp. - 100%	White Gold Corp. - 100%
YC19942	King 9	White Gold Corp. - 100%	White Gold Corp. - 100%
YC19943	King 10	White Gold Corp. - 100%	White Gold Corp. - 100%
YC19944	King 11	White Gold Corp. - 100%	White Gold Corp. - 100%
YC19945	King 12	White Gold Corp. - 100%	White Gold Corp. - 100%
YC44350	King 13	White Gold Corp. - 100%	White Gold Corp. - 100%
YC44351	King 14	White Gold Corp. - 100%	White Gold Corp. - 100%
YC44352	King 15	White Gold Corp. - 100%	White Gold Corp. - 100%
YC44353	King 16	White Gold Corp. - 100%	White Gold Corp. - 100%
YC44354	King 17	White Gold Corp. - 100%	White Gold Corp. - 100%
YC44355	King 18	White Gold Corp. - 100%	White Gold Corp. - 100%
YC44356	King 19	White Gold Corp. - 100%	White Gold Corp. - 100%
YC44357	King 20	White Gold Corp. - 100%	White Gold Corp. - 100%
YC19954	King 21	White Gold Corp. - 100%	White Gold Corp. - 100%

Grant Number	Name	Owner	Operator
YC19955	King 22	White Gold Corp. - 100%	White Gold Corp. - 100%
YC19956	King 23	White Gold Corp. - 100%	White Gold Corp. - 100%
YC19957	King 24	White Gold Corp. - 100%	White Gold Corp. - 100%
YC19958	King 25	White Gold Corp. - 100%	White Gold Corp. - 100%
YC19959	King 26	White Gold Corp. - 100%	White Gold Corp. - 100%
YC19960	King 27	White Gold Corp. - 100%	White Gold Corp. - 100%
YC19961	King 28	White Gold Corp. - 100%	White Gold Corp. - 100%
YC19962	King 29	White Gold Corp. - 100%	White Gold Corp. - 100%
YC19963	King 30	White Gold Corp. - 100%	White Gold Corp. - 100%
YC19964	King 31	White Gold Corp. - 100%	White Gold Corp. - 100%
YC19965	King 32	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20693	King 33	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20694	King 34	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20695	King 35	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20696	King 36	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20697	King 37	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20698	King 38	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20699	King 39	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20700	King 40	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20701	King 41	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20702	King 42	White Gold Corp. - 100%	White Gold Corp. - 100%
YC86597	King 43	White Gold Corp. - 100%	White Gold Corp. - 100%
YC86598	King 44	White Gold Corp. - 100%	White Gold Corp. - 100%
YC86599	King 45	White Gold Corp. - 100%	White Gold Corp. - 100%
YC86600	King 46	White Gold Corp. - 100%	White Gold Corp. - 100%
YC86748	King 47	White Gold Corp. - 100%	White Gold Corp. - 100%
YC86749	King 48	White Gold Corp. - 100%	White Gold Corp. - 100%
YC86750	King 49	White Gold Corp. - 100%	White Gold Corp. - 100%
YC86751	King 50	White Gold Corp. - 100%	White Gold Corp. - 100%
YC86752	King 51	White Gold Corp. - 100%	White Gold Corp. - 100%
YC86753	King 52	White Gold Corp. - 100%	White Gold Corp. - 100%
YC86754	King 53	White Gold Corp. - 100%	White Gold Corp. - 100%
YC86755	King 54	White Gold Corp. - 100%	White Gold Corp. - 100%
YC44334	NPrince 1	White Gold Corp. - 100%	White Gold Corp. - 100%
YC44335	NPrince 2	White Gold Corp. - 100%	White Gold Corp. - 100%
YC44336	NPrince 3	White Gold Corp. - 100%	White Gold Corp. - 100%
YC44337	NPrince 4	White Gold Corp. - 100%	White Gold Corp. - 100%
YC44338	NPrince 5	White Gold Corp. - 100%	White Gold Corp. - 100%
YC44339	NPrince 6	White Gold Corp. - 100%	White Gold Corp. - 100%

Grant Number	Name	Owner	Operator
YC44340	NPrince 7	White Gold Corp. - 100%	White Gold Corp. - 100%
YC44341	NPrince 8	White Gold Corp. - 100%	White Gold Corp. - 100%
YC44342	NPrince 9	White Gold Corp. - 100%	White Gold Corp. - 100%
YC44343	NPrince 10	White Gold Corp. - 100%	White Gold Corp. - 100%
YC44344	NPrince 11	White Gold Corp. - 100%	White Gold Corp. - 100%
YC44345	NPrince 12	White Gold Corp. - 100%	White Gold Corp. - 100%
YC44346	NPrince 13	White Gold Corp. - 100%	White Gold Corp. - 100%
YC44347	NPrince 14	White Gold Corp. - 100%	White Gold Corp. - 100%
YC44348	NPrince 15	White Gold Corp. - 100%	White Gold Corp. - 100%
YC44349	NPrince 16	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20647	Prince 1	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20648	Prince 2	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20649	Prince 3	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20650	Prince 4	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20651	Prince 5	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20652	Prince 6	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20653	Prince 7	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20654	Prince 8	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20655	Prince 9	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20656	Prince 10	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20657	Prince 11	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20658	Prince 12	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20659	Prince 13	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20660	Prince 14	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20661	Prince 15	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20662	Prince 16	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20663	Prince 17	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20664	Prince 18	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20665	Prince 19	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20666	Prince 20	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20667	Prince 21	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20668	Prince 22	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20669	Prince 23	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20670	Prince 24	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20671	Prince 25	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20672	Prince 26	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20673	Prince 27	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20674	Prince 28	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20675	Prince 29	White Gold Corp. - 100%	White Gold Corp. - 100%

Grant Number	Name	Owner	Operator
YC20676	Prince 30	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20677	Prince 31	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20678	Prince 32	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20679	Prince 33	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20680	Prince 34	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20681	Prince 35	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20682	Prince 36	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20683	Prince 37	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20684	Prince 38	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20685	Prince 39	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20686	Prince 40	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20687	Prince 41	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20688	Prince 42	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20689	Prince 43	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20690	Prince 44	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20691	Prince 45	White Gold Corp. - 100%	White Gold Corp. - 100%
YC20692	Prince 46	White Gold Corp. - 100%	White Gold Corp. - 100%
YC21127	Prince 47	White Gold Corp. - 100%	White Gold Corp. - 100%
YC21128	Prince 48	White Gold Corp. - 100%	White Gold Corp. - 100%
YC21129	Prince 49	White Gold Corp. - 100%	White Gold Corp. - 100%
YC21130	Prince 50	White Gold Corp. - 100%	White Gold Corp. - 100%
YC21131	Prince 51	White Gold Corp. - 100%	White Gold Corp. - 100%
YC21132	Prince 52	White Gold Corp. - 100%	White Gold Corp. - 100%
YC21133	Prince 53	White Gold Corp. - 100%	White Gold Corp. - 100%
YC21134	Prince 54	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34443	Prince 61	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34444	Prince 62	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34445	Prince 63	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34446	Prince 64	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34447	Prince 65	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34448	Prince 66	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34449	Prince 67	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34450	Prince 68	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34451	Prince 69	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34452	Prince 70	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34453	Prince 71	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34454	Prince 72	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34455	Prince 73	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34456	Prince 74	White Gold Corp. - 100%	White Gold Corp. - 100%

Grant Number	Name	Owner	Operator
YC34457	Prince 75	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34458	Prince 76	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34459	Prince 77	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34460	Prince 78	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34461	Prince 79	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34462	Prince 80	White Gold Corp. - 100%	White Gold Corp. - 100%
YC34463	Prince 81	White Gold Corp. - 100%	White Gold Corp. - 100%
YC36113	Prince 82	White Gold Corp. - 100%	White Gold Corp. - 100%
YC36114	Prince 83	White Gold Corp. - 100%	White Gold Corp. - 100%
YC36115	Prince 84	White Gold Corp. - 100%	White Gold Corp. - 100%
YC36116	Prince 85	White Gold Corp. - 100%	White Gold Corp. - 100%
YC36117	Prince 86	White Gold Corp. - 100%	White Gold Corp. - 100%
YC36118	Prince 87	White Gold Corp. - 100%	White Gold Corp. - 100%
YC36119	Prince 88	White Gold Corp. - 100%	White Gold Corp. - 100%
YC36120	Prince 89	White Gold Corp. - 100%	White Gold Corp. - 100%
YC36121	Prince 90	White Gold Corp. - 100%	White Gold Corp. - 100%
YC36122	Prince 91	White Gold Corp. - 100%	White Gold Corp. - 100%
YC36123	Prince 92	White Gold Corp. - 100%	White Gold Corp. - 100%
YC61040	Prince 93	White Gold Corp. - 100%	White Gold Corp. - 100%
YC61041	Prince 94	White Gold Corp. - 100%	White Gold Corp. - 100%
YC61042	Prince 95	White Gold Corp. - 100%	White Gold Corp. - 100%
YC61043	Prince 96	White Gold Corp. - 100%	White Gold Corp. - 100%

Appendix B: Statement of Expenditures

Hunker Expenditures	Amount
Groundtruth Soil Sampling Program	\$21,014.44
Groundtruth Geology Labour (Prospecting)	\$1,299.38
Bureau Veritas Assay Services	\$179.78
Drone Survey	\$3,597.30
Dighem Survey	\$45,492.70
Total 2017 expenditures on the Hunker Property	\$71,583.60

Appendix C: Soil Sample Location, Description and Assay Certificates

sample_id	sample_project	sample_technique	sample_date	utm_zone	utm_easting	utm_northing	longitude_wgs84	latitude_wgs84	duplicate_of_id	elevation_m	sample_method	sample_depth
1442301	HUN	NK01	#####	07N	601191	7089299	-138.93708	63.91607849		997	Auger	40
1442302	HUN	NK01	#####	07N	601217	7089396	-138.9364864	63.91694087		1004	Auger	70
1442303	HUN	NK01	#####	07N	601230	7089445	-138.9361893	63.91737655		1005	Auger	60
1442304	HUN	NK01	#####	07N	601242	7089493	-138.9359132	63.91780354		1001	Auger	70
1442304	HUN	NK01	#####	07N	601242	7089493	-138.9359132	63.91780354		1001	Auger	70
1442305	HUN	NK01	#####	07N	601256	7089547	-138.9355923	63.91828376		992	Auger	80
1442306	HUN	NK01	#####	07N	601268	7089591	-138.9353189	63.91867489		984	Auger	100
1442307	HUN	NK01	#####	07N	601280	7089639	-138.9350427	63.91910188		974	Auger	70
1444301	HUN	RW02	#####	07N	600943	7090916	-138.9410682	63.93065214		893	Auger	30
1444302	HUN	RW02	#####	07N	600893	7090925	-138.9420814	63.93074733		888	Auger	40
1444303	HUN	RW02	#####	07N	600845	7090936	-138.9430524	63.93085988		883	Auger	30
1444304	HUN	RW02	#####	07N	600797	7090951	-138.9440209	63.93100829		875	Auger	40
1444305	HUN	RW02	#####	07N	600750	7090962	-138.9449716	63.93112053		869	Auger	40
1444306	HUN	RW02	#####	07N	600699	7090976	-138.9460018	63.93126082		862	Auger	30
1444307	HUN	RW02	#####	07N	600652	7090988	-138.9469519	63.93138202		853	Auger	60
1444308	HUN	RW02	#####	07N	600602	7091004	-138.9479605	63.93153995		845	Auger	30
1444309	HUN	RW02	#####	07N	600554	7091013	-138.9489329	63.93163451		839	Auger	20
1444310	HUN	RW02	#####	07N	600506	7091027	-138.9499021	63.93177392		832	Auger	60
1444311	HUN	RW02	#####	07N	600455	7091037	-138.950935	63.9318783		826	Auger	40
1444312	HUN	RW02	#####	07N	600410	7091052	-138.9518424	63.9320258		820	Auger	40
1444313	HUN	RW02	#####	07N	600360	7091063	-138.9528543	63.93213885		813	Auger	50
1444314	HUN	RW02	#####	07N	600312	7091076	-138.9538241	63.93226926		803	Auger	20
1444315	HUN	RW02	#####	07N	600270	7091087	-138.954673	63.93238		795	Auger	50
1444316	HUN	RW02	#####	07N	600219	7091077	-138.9557191	63.93230498		783	Auger	30
1444317	HUN	RW02	#####	07N	600176	7091063	-138.9566047	63.93219179		771	Auger	80
1444318	HUN	RW02	#####	07N	600125	7091052	-138.9576513	63.93210779		760	Auger	70
1444319	HUN	RW02	#####	07N	600077	7091040	-138.9586375	63.93201396		751	Auger	70
1444320	HUN	RW02	#####	07N	600029	7091028	-138.9596237	63.93192011		742	Auger	60
1444321	HUN	RW02	#####	07N	599980	7091015	-138.9606309	63.93181758		732	Auger	70
1444321	HUN	RW02	#####	07N	599980	7091015	-138.9606309	63.93181758		732	Auger	70
1444322	HUN	RW02	#####	07N	599932	7091006	-138.9616151	63.93175064		721	Auger	50
1444323	HUN	RW02	#####	07N	599884	7090992	-138.9626026	63.93163884		712	Auger	70
1444324	HUN	RW02	#####	07N	599835	7090981	-138.9636085	63.93155422		700	Auger	60

sample_id	sampled_hori:	site_slope	soil_colour	site_vegetatio	site_ground_c	sample_moist	sample_qualit	sample_textur	sample_note_	sample_note_additional_	ren	type
1442301	B	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss	Damp	Excellent	Silt				Soil
1442302	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Silt				Soil
1442303	B	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss	Damp	Good	Silt				Soil
1442304	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss	Damp	Good	Silt				REP
1442304	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss	Damp	Good	Silt				Soil
1442305	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Silt				Soil
1442306	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss	Damp	Excellent	Silt				Soil
1442307	B	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss	Damp	Good	Silt				Soil
1444301	B	Subtle Slope	Chocolate Brov	Birch Forest	Leaf Cover	Dry	Good	Silt	Fine			Soil
1444302	C	Pronounced Slo	Chocolate Brov	Black Spruce	Reindeer Moss	Dry	Good	Gravel				Soil
1444303	B	Pronounced Slo	Chocolate Brov	Black Spruce	Grass Cover	Dry	Good	Silt				Soil
1444304	C	Pronounced Slo	Chocolate Brov	Black Spruce	Reindeer Moss	Dry	Good	Gravel				Soil
1444305	C	Pronounced Slo	Chocolate Brov	Dwarf Birch	Reindeer Moss	Dry	Good	Silt				Soil
1444306	B	Pronounced Slo	Chocolate Brov	Black Spruce	Reindeer Moss	Dry	Good	Silt				Soil
1444307	C	Pronounced Slo	Chocolate Brov	Black Spruce	Reindeer Moss	Dry	Good	Gravel				Soil
1444308	B	Pronounced Slo	Chocolate Brov	Birch Forest	Reindeer Moss	Dry	Good	Silt				Soil
1444309	B	Pronounced Slo	Chocolate Brov	Black Spruce	Reindeer Moss	Dry	Good	Silt				Soil
1444310	C	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss	Dry	Good	Gravel				Soil
1444311	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss	Dry	Good	Gravel				Soil
1444312	C	Subtle Slope	Reddish Orang	Birch Forest	Reindeer Moss	Dry	Good	Gravel				Soil
1444313	C	Pronounced Slo	Light Brown	Poplar	Leaf Cover	Dry	Good	Gravel				Soil
1444314	B	Pronounced Slo	Chocolate Brov	Black Spruce	Thin Moss Cov	Dry	Good	Silt	Fine			Soil
1444315	C	Pronounced Slo	Light Brown	Poplar	Reindeer Moss	Dry	Good	Gravel				Soil
1444316	B	Pronounced Slo	Light Brown	Poplar	Leaf Cover	Dry	Good	Silt	Fine			Soil
1444317	C	Pronounced Slo	Light Grey	Black Spruce	Reindeer Moss	Dry	Good	Sand				Soil
1444318	C	Pronounced Slo	Chocolate Brov	Poplar	Reindeer Moss	Dry	Excellent	Gravel				Soil
1444319	C	Pronounced Slo	Reddish Orang	Poplar	Leaf Cover	Dry	Good	Sand				Soil
1444320	C	Pronounced Slo	Reddish Orang	Poplar	Leaf Cover	Dry	Good	Sand				Soil
1444321	C	Pronounced Slo	Reddish Orang	Black Spruce	Reindeer Moss	Dry	Good	Sand				REP
1444321	C	Pronounced Slo	Reddish Orang	Black Spruce	Reindeer Moss	Dry	Good	Sand				Soil
1444322	C	Pronounced Slo	Chocolate Brov	Black Spruce	Reindeer Moss	Dry	Excellent	Gravel				Soil
1444323	C	Pronounced Slo	Reddish Brown	Black Spruce	Sphagnum Mo:	Dry	Good	Sand				Soil
1444324	C	Pronounced Slo	Chocolate Brov	Black Spruce	Reindeer Moss	Dry	Good	Silt				Soil

sample_id	shipment_id	client	job_number	file_created	received	mo_ppm	cu_ppm	pb_ppm	zn_ppm	ag_ppm	ni_ppm	co_ppm	mn_ppm	fe_pct	as_ppm	u_ppm
1442301	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.5	22	8	68	0.2	16.3	8.3	417	3.27	16.8	0.5
1442302	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.8	39.4	16.3	87	0.05	29.7	17.2	835	4.03	48.4	0.6
1442303	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.4	25.3	10.6	64	0.8	22.7	10.6	272	3.21	12	0.6
1442304	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.1	38.9	19.8	75	0.05	24.9	11.7	504	3.34	77.8	0.8
1442304	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.1	38.7	19.4	73	0.05	24.7	11.5	486	3.36	77.4	0.8
1442305	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.1	41.9	51.4	117	0.2	30.2	15.8	689	3.55	67.5	1.2
1442306	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.4	35.7	6.4	98	0.2	27.1	15.1	650	3.69	271.4	0.8
1442307	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.6	20.1	10	58	0.1	15.5	7.7	412	2.26	58.4	0.8
1444301	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.2	14.6	11.9	63	0.2	17.1	12.4	448	2.84	11	0.5
1444302	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.4	9.2	16.5	121	0.05	49.2	13.4	567	3.93	3.1	0.7
1444303	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.8	8.6	9.8	44	0.2	10.2	4.6	185	2.34	7	0.3
1444304	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.9	37.9	11.3	88	0.05	23	9	453	3.78	4.6	1.8
1444305	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.6	16.3	13.7	63	0.05	16	7.6	271	2.26	8	0.9
1444306	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.4	24.6	12.8	56	0.9	23.7	13.3	384	3.14	11.9	1.4
1444307	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.6	31.4	13.7	71	0.05	25.7	10	331	3.17	41.7	0.7
1444308	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.1	20.5	13.7	60	0.3	19.8	8.5	250	3.16	23	0.5
1444309	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1	10	9.6	60	0.2	12.8	5.7	186	2.56	9.6	0.5
1444310	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.4	14.2	76.9	178	0.3	10.7	7.3	222	2.47	101	1.1
1444311	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.3	12	56	80	0.05	6.1	3.4	210	1.11	3.5	1
1444312	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.2	8.8	5.9	28	0.05	5.5	3.1	99	1.39	3.7	1.1
1444313	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.7	6.9	12.1	26	0.05	6.6	4.5	113	1.2	5.2	1.9
1444314	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.3	13.6	12.1	52	0.05	15.6	8.3	262	2.84	10.8	0.7
1444315	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.3	7.2	7.5	22	0.05	6.8	3.6	101	1.01	3.6	1.3
1444316	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.8	14.9	12.9	48	0.05	11.3	5.7	209	1.83	7	1.3
1444317	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.2	4.3	11.8	23	0.05	2.5	1.9	109	0.63	0.25	1.9
1444318	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.9	21.3	10.3	42	0.05	14.1	6.1	173	2.01	8	2.4
1444319	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.8	8.9	6.4	20	0.05	5.6	2.9	81	1.19	3.3	1.7
1444320	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.6	3.1	4.1	6	0.05	2.1	1.5	50	1.42	2.1	0.4
1444321	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.4	4.1	6.5	4	0.05	1	0.6	9	0.55	0.7	1.3
1444321	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.5	3.9	6.4	4	0.05	1.1	0.5	9	0.53	0.8	1.2
1444322	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.8	15.3	12.6	36	0.05	11	4.7	144	1.6	4.7	2.2
1444323	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.3	7.2	4.8	34	0.05	5.1	4.3	130	0.95	1.8	1
1444324	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.7	18	10.2	47	0.05	14.7	6.1	161	2.1	8	1.1

sample_id	au_ppb	th_ppm	sr_ppm	cd_ppm	sb_ppm	bi_ppm	v_ppm	ca_pct	p_pct	la_ppm	cr_ppm	mg_pct	ba_ppm	ti_pct	b_ppm	al_pct	na_pct	k_pct	w_ppm
1442301	3.3	1.2	7	0.2	0.5	0.2	64	0.08	0.052	22	29	0.86	93	0.022	0.5	1.68	0.004	0.05	0.05
1442302	19.6	7.2	9	0.2	0.1	0.05	44	0.18	0.087	17	25	1.3	82	0.068	0.5	1.97	0.002	0.16	0.05
1442303	2.1	3.8	7	0.05	0.7	0.1	59	0.08	0.035	18	27	0.62	200	0.026	0.5	2.04	0.004	0.07	0.2
1442304	3	6.4	6	0.2	0.4	0.1	41	0.08	0.037	23	22	1.03	106	0.026	0.5	1.79	0.003	0.06	0.05
1442304	3.5	6.4	6	0.2	0.4	0.1	43	0.08	0.038	23	23	1.07	105	0.027	0.5	1.79	0.004	0.06	0.05
1442305	57.6	7.1	18	0.4	0.8	0.2	35	0.2	0.069	29	20	1.15	232	0.015	0.5	1.66	0.003	0.08	0.05
1442306	56.3	6.6	20	0.3	1.7	0.1	61	0.32	0.11	22	32	1.5	173	0.043	1	2.02	0.004	0.13	0.05
1442307	23	5.5	12	0.2	0.6	0.1	30	0.14	0.047	23	19	0.82	126	0.02	1	1.31	0.004	0.05	0.05
1444301	2.9	4.6	10	0.1	0.7	0.2	59	0.12	0.035	14	30	0.41	265	0.042	1	1.75	0.006	0.06	0.1
1444302	2.3	6.4	12	0.05	0.1	0.2	62	0.2	0.062	26	105	2.77	159	0.122	1	2.93	0.002	0.2	0.05
1444303	0.25	2	9	0.05	0.4	0.2	57	0.09	0.055	10	24	0.38	155	0.053	0.5	1.25	0.005	0.08	0.1
1444304	0.7	6.8	14	0.1	0.2	0.05	53	0.07	0.04	21	30	1.92	99	0.172	0.5	2.17	0.003	0.12	0.05
1444305	2.7	7.6	6	0.05	0.3	0.1	30	0.07	0.032	15	22	0.7	109	0.055	0.5	1.45	0.003	0.13	0.05
1444306	4.4	5.8	10	0.1	0.7	0.2	64	0.08	0.035	15	37	0.53	234	0.048	2	2.34	0.009	0.05	0.2
1444307	1.4	5.2	7	0.05	0.4	0.1	57	0.07	0.029	17	51	1.01	135	0.048	1	1.82	0.004	0.08	0.1
1444308	2.5	3.9	7	0.1	0.7	0.2	59	0.07	0.032	12	30	0.65	166	0.037	1	2.06	0.005	0.05	0.1
1444309	1.6	4.8	6	0.05	0.7	0.1	49	0.06	0.03	16	25	0.47	165	0.034	2	1.82	0.004	0.04	0.1
1444310	18.7	9.6	65	0.2	0.9	0.3	16	0.04	0.043	21	14	0.35	213	0.005	0.5	0.83	0.009	0.12	0.05
1444311	0.9	14.6	4	0.05	0.2	0.4	19	0.11	0.019	36	11	0.32	160	0.029	0.5	0.93	0.003	0.05	0.05
1444312	0.25	14.4	4	0.05	0.3	0.4	17	0.03	0.018	26	10	0.25	212	0.01	0.5	1.32	0.002	0.06	0.05
1444313	0.25	14.1	5	0.05	0.3	0.2	15	0.04	0.012	31	9	0.15	145	0.01	0.5	0.9	0.003	0.08	0.05
1444314	1.4	5.3	9	0.05	0.7	0.3	62	0.08	0.042	12	31	0.45	187	0.048	1	2.07	0.005	0.05	0.2
1444315	1.3	7.7	7	0.05	0.3	0.05	19	0.05	0.01	21	11	0.22	84	0.041	1	0.82	0.002	0.08	0.05
1444316	1.3	7.6	11	0.05	0.6	0.2	33	0.09	0.019	16	20	0.43	158	0.059	0.5	1.42	0.004	0.07	0.1
1444317	1.6	14.5	5	0.05	0.2	0.05	7	0.02	0.006	35	4	0.09	88	0.013	0.5	0.41	0.002	0.1	0.05
1444318	1.6	8.7	11	0.05	0.7	0.2	40	0.09	0.012	25	24	0.36	292	0.054	0.5	1.26	0.008	0.05	0.1
1444319	1.8	19.2	4	0.05	0.3	0.1	15	0.03	0.009	59	11	0.23	239	0.018	0.5	0.88	0.002	0.05	0.05
1444320	0.25	6.7	2	0.05	0.2	0.5	11	0.01	0.016	6	5	0.07	124	0.011	0.5	0.46	0.003	0.04	0.05
1444321	0.25	18.1	0.5	0.05	0.1	0.6	4	0.005	0.006	31	2	0.02	43	0.004	0.5	0.3	0.001	0.06	0.05
1444321	0.25	18.5	0.5	0.05	0.1	0.6	4	0.005	0.006	31	2	0.02	44	0.004	0.5	0.3	0.001	0.06	0.05
1444322	3.2	12.9	7	0.05	0.5	0.2	28	0.06	0.009	41	17	0.27	358	0.028	0.5	0.99	0.005	0.06	0.1
1444323	0.25	4.8	7	0.05	0.2	0.05	14	0.06	0.009	16	5	0.28	50	0.045	0.5	0.71	0.002	0.09	0.05
1444324	4.3	7.6	8	0.05	0.6	0.1	41	0.06	0.014	23	22	0.37	198	0.039	0.5	1.36	0.004	0.05	0.1

sample_id	hg_ppm	sc_ppm	tl_ppm	s_pct	ga_ppm	se_ppm	te_ppm
1442301	0.02	2.3	0.1	0.025	7	0.25	0.1
1442302	0.005	3.3	0.2	0.025	5	0.25	0.1
1442303	0.03	3.1	0.1	0.025	6	0.25	0.1
1442304	0.005	2.7	0.05	0.025	5	0.25	0.1
1442304	0.005	2.7	0.05	0.025	5	0.25	0.1
1442305	0.01	3.7	0.1	0.025	5	0.25	0.1
1442306	0.02	5.1	0.1	0.025	7	0.25	0.1
1442307	0.005	3	0.05	0.025	4	0.25	0.1
1444301	0.01	2.9	0.1	0.025	6	0.25	0.1
1444302	0.005	6.4	0.2	0.025	8	0.25	0.1
1444303	0.01	2.1	0.1	0.025	6	0.25	0.1
1444304	0.01	3.1	0.05	0.025	6	0.8	0.1
1444305	0.005	2.5	0.1	0.025	4	0.25	0.1
1444306	0.04	5.2	0.1	0.025	6	0.25	0.1
1444307	0.02	7	0.1	0.025	6	0.25	0.1
1444308	0.02	3	0.2	0.025	6	0.25	0.1
1444309	0.02	2.5	0.1	0.025	5	0.25	0.1
1444310	0.005	1.3	0.05	0.14	2	0.25	0.1
1444311	0.01	1.3	0.1	0.025	2	0.25	0.1
1444312	0.01	1.2	0.05	0.025	3	0.25	0.1
1444313	0.005	1.7	0.05	0.025	2	0.25	0.1
1444314	0.03	3	0.2	0.025	6	0.25	0.1
1444315	0.005	1.8	0.05	0.025	2	0.25	0.1
1444316	0.005	2.4	0.1	0.025	4	0.25	0.1
1444317	0.005	1.4	0.05	0.025	2	0.25	0.1
1444318	0.03	4.6	0.05	0.025	4	0.25	0.1
1444319	0.005	2	0.05	0.025	3	0.25	0.1
1444320	0.005	0.6	0.05	0.025	2	0.25	0.1
1444321	0.005	0.9	0.05	0.025	0.5	0.25	0.1
1444321	0.005	0.9	0.05	0.025	0.5	0.25	0.1
1444322	0.03	3.4	0.05	0.025	3	0.25	0.1
1444323	0.005	1.1	0.1	0.025	2	0.25	0.1
1444324	0.005	3	0.05	0.025	4	0.25	0.1

sample_id	sample_project	sample_technique	sample_date	utm_zone	utm_easting	utm_northing	longitude_wgs84	latitude_wgs84	duplicate_of_id	elevation_m	sample_method	sample_depth
1444325	HUN	RW02	#####	07N	599835	7090981	-138.9636085	63.93155422	1444324	700	Auger	60
1466628	HUN	CG01	#####	07N	600711	7088338	-138.947488	63.90759882		1051	Auger	50
1466629	HUN	CG01	#####	07N	600665	7088351	-138.9484162	63.90772869		1064	Auger	60
1466630	HUN	CG01	#####	07N	600618	7088369	-138.9493616	63.90790368		1056	Auger	50
1466631	HUN	CG01	#####	07N	600570	7088385	-138.9503286	63.90806101		1048	Auger	60
1466632	HUN	CG01	#####	07N	600524	7088400	-138.9512556	63.90820879		1038	Auger	50
1466633	HUN	CG01	#####	07N	600475	7088416	-138.952243	63.9083664		1028	Auger	50
1466634	HUN	CG01	#####	07N	600431	7088432	-138.9531286	63.90852257		1018	Auger	50
1466635	HUN	CG01	#####	07N	600375	7088448	-138.9542586	63.90868218		1003	Auger	50
1466636	HUN	CG01	#####	07N	600334	7088466	-138.9550818	63.9088554		989	Auger	50
1466637	HUN	CG01	#####	07N	600286	7088485	-138.956047	63.9090396		975	Auger	50
1466638	HUN	CG01	#####	07N	600233	7088502	-138.9571152	63.9092073		961	Auger	40
1466639	HUN	CG01	#####	07N	600188	7088518	-138.9580213	63.90936372		950	Auger	50
1466640	HUN	CG01	#####	07N	600144	7088532	-138.9589082	63.90950191		939	Auger	50
1466641	HUN	CG01	#####	07N	600097	7088548	-138.959855	63.90965889		930	Auger	50
1466642	HUN	CG01	#####	07N	600051	7088568	-138.9607788	63.90985146		920	Auger	50
1466643	HUN	CG01	#####	07N	600003	7088579	-138.9617493	63.90996387		911	Auger	40
1466644	HUN	CG01	#####	07N	599956	7088599	-138.9626935	63.91015671		904	Auger	50
1466645	HUN	CG01	#####	07N	599910	7088613	-138.9636212	63.91029545		893	Auger	40
1466646	HUN	CG01	#####	07N	599862	7088632	-138.9645865	63.91047959		884	Auger	60
1466647	HUN	CG01	#####	07N	599815	7088648	-138.9655333	63.91063654		874	Auger	50
1466648	HUN	CG01	#####	07N	599766	7088663	-138.9665216	63.91078508		866	Auger	50
1466649	HUN	CG01	#####	07N	599720	7088680	-138.9674474	63.9109507		856	Auger	60
1466650	HUN	CG01	#####	07N	599720	7088680	-138.9674474	63.9109507	1466649	856	Auger	60
1466726	HUN	CG01	#####	07N	599670	7088696	-138.9684554	63.91110848		843	Auger	80
1466727	HUN	CG01	#####	07N	599626	7088712	-138.9693412	63.91126455		834	Auger	60
1466728	HUN	CG01	#####	07N	599577	7088723	-138.970332	63.91137719		822	Auger	60
1466729	HUN	CG01	#####	07N	599521	7088732	-138.9714668	63.91147389		809	Auger	60
1466730	HUN	CG01	#####	07N	599475	7088727	-138.9724069	63.91144217		797	Auger	70
1466731	HUN	CG01	#####	07N	599426	7088725	-138.9734062	63.9114382		782	Auger	60
1466731	HUN	CG01	#####	07N	599426	7088725	-138.9734062	63.9114382		782	Auger	60
1466732	HUN	CG01	#####	07N	599371	7088729	-138.9745239	63.91148975		768	Auger	60
1466733	HUN	CG01	#####	07N	599314	7088727	-138.9756861	63.91148804		752	Auger	70

sample_id	sampld_hori:	site_slope	soil_colour	site_vegetatio	site_ground_c	sample_moist	sample_qualit	sample_textur	sample_note_	sample_note_additional_	ren	type
1444325	C	Pronounced Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Dry	Good	Silt				Soil
1466628	C	Subtle Slope	Chocolate Brown	Dwarf Birch	Reindeer Moss	Damp	Good	Sand				Soil
1466629	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand				Soil
1466630	C	Subtle Slope	Reddish Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand				Soil
1466631	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand				Soil
1466632	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand				Soil
1466633	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand				Soil
1466634	C	Subtle Slope	Reddish Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand				Soil
1466635	C	Subtle Slope	Reddish Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand				Soil
1466636	C	Subtle Slope	Reddish Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Rocky Terrain			Soil
1466637	C	Subtle Slope	Reddish Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand				Soil
1466638	C	Subtle Slope	Reddish Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Rocky Terrain			Soil
1466639	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand				Soil
1466640	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss	Damp	Good	Sand				Soil
1466641	C	Subtle Slope	Light Brown	Poplar	Leaf Cover	Damp	Good	Sand				Soil
1466642	C	Subtle Slope	Light Brown	Birch Forest	Leaf Cover	Damp	Good	Sand				Soil
1466643	C	Subtle Slope	Reddish Yellow	Birch Forest	Reindeer Moss	Dry	Good	Sand				Soil
1466644	C	Subtle Slope	Light Brown	Dwarf Birch	Leaf Cover	Damp	Good	Sand				Soil
1466645	C	Subtle Slope	Light Brown	Birch Forest	Leaf Cover	Dry	Good	Sand	Rocky Terrain			Soil
1466646	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss	Dry	Good	Sand				Soil
1466647	C	Subtle Slope	Reddish Yellow	Birch Forest	Thin Moss Cov	Dry	Good	Sand				Soil
1466648	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Dry	Good	Sand				Soil
1466649	C	Subtle Slope	Reddish Yellow	Birch Forest	Leaf Cover	Damp	Good	Sand				Soil
1466650	C	Subtle Slope	Reddish Yellow	Birch Forest	Leaf Cover	Damp	Good	Sand				Soil
1466726	C	Subtle Slope	Light Brown	Black Spruce	Thin Moss Cov	Damp	Good	Sand				Soil
1466727	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand				Soil
1466728	C	Subtle Slope	Light Brown	Black Spruce	Thin Moss Cov	Damp	Good	Sand				Soil
1466729	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss	Damp	Good	Sand				Soil
1466730	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss	Damp	Good	Sand				Soil
1466731	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss	Damp	Good	Sand				Soil
1466731	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss	Damp	Good	Sand				REP
1466732	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand				Soil
1466733	C	Subtle Slope	Chocolate Brown	Poplar	Reindeer Moss	Damp	Good	Sand				Soil

sample_id	shipment_id	client	job_number	file_created	received	mo_ppm	cu_ppm	pb_ppm	zn_ppm	ag_ppm	ni_ppm	co_ppm	mn_ppm	fe_pct	as_ppm	u_ppm
1444325	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.8	19	10.6	48	0.05	14.5	5.9	163	2.08	7.9	1.2
1466628	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.5	52.8	123	230	0.6	18.7	9.9	388	3.22	13.8	0.6
1466629	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.1	25.7	37.4	76	0.05	24	11.6	313	2.94	15.5	0.6
1466630	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1	16.1	25.2	62	0.05	17.9	8.4	235	2.95	12	0.5
1466631	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.8	35	12	107	0.05	25.9	12.1	406	3.23	27	0.5
1466632	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1	30.8	42	93	0.05	14.1	14.2	672	3.44	16.3	0.5
1466633	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.1	29.6	21.7	78	0.05	26	10.7	276	3.16	12.5	0.5
1466634	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.5	38.7	20.8	156	0.1	29.1	13	362	3.52	27.5	0.7
1466635	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.7	27.8	51.3	244	0.7	18.4	12.7	899	3.41	54.4	0.4
1466636	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.1	25.5	26.9	69	0.05	18.2	7.6	236	2.78	11.7	0.8
1466637	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.2	20.9	19.9	84	0.2	22.7	9.9	335	3.16	12.9	0.5
1466638	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.4	26.8	25.8	96	0.1	23.3	10.2	368	3.2	36.2	0.5
1466639	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.6	35.6	42.4	115	0.2	23.2	12.8	419	3.17	8	0.9
1466640	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.6	38.8	33.6	160	0.1	24.5	11.8	509	4.05	44.7	0.4
1466641	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.8	22.3	14.9	104	0.1	18.1	9.9	489	3.57	32	0.3
1466642	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1	14.9	12.8	62	0.3	16.4	8.3	255	3.1	10.9	0.4
1466643	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.4	16.5	11.3	79	0.3	13.9	9.2	450	3.84	15.1	0.3
1466644	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1	29	15.9	64	0.3	25.8	11.1	278	3.01	11.6	0.5
1466645	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.6	22.9	83.1	132	0.6	17.5	8.1	292	3.29	32.8	0.6
1466646	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.3	38.3	19.7	115	0.05	27.6	13.9	411	4.38	20.5	0.6
1466647	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	2.5	35.4	78	100	0.4	24.8	10	243	3.53	83.1	1.3
1466648	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1	36	14.6	122	0.3	24.9	12	412	3.22	8.8	0.6
1466649	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.3	42.7	6.7	95	0.2	29.5	10.4	439	3.86	11.4	0.8
1466650	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.7	46.4	8.5	94	0.2	34.1	11.1	468	3.76	34	0.9
1466726	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.1	18.3	6.4	95	0.05	20.1	9.8	363	2.91	4.3	1.4
1466727	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.7	13	97.2	140	0.05	13.6	7	352	2.35	3.3	1
1466728	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.7	53.7	25.2	106	0.2	12.2	5.1	298	2.29	5.1	2.9
1466729	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	3.4	50	231	307	0.3	8.2	3.4	401	2.99	10.3	1.6
1466730	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.1	20.8	32	213	0.05	4.4	3.6	306	1.68	3.2	1.2
1466731	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	2.5	18.4	118.8	42	0.5	4.7	3	54	1.8	3.4	3.9
1466731	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	2.6	17.7	118.8	40	0.5	4.6	2.8	52	1.74	3.4	3.8
1466732	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.7	16.2	53.3	41	0.05	13.9	5.4	161	1.4	5.5	1.4
1466733	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.3	17.5	41.1	64	0.2	10.7	5	184	1.72	7.4	1.6

sample_id	au_ppb	th_ppm	sr_ppm	cd_ppm	sb_ppm	bi_ppm	v_ppm	ca_pct	p_pct	la_ppm	cr_ppm	mg_pct	ba_ppm	ti_pct	b_ppm	al_pct	na_pct	k_pct	w_ppm
1444325	1.7	8.5	8	0.05	0.6	0.1	40	0.06	0.013	25	22	0.37	191	0.041	0.5	1.33	0.004	0.06	0.05
1466628	1.6	2.8	8	0.5	0.7	1.2	65	0.12	0.048	10	33	0.73	99	0.026	1	2.02	0.005	0.05	0.2
1466629	0.25	4.6	9	0.3	0.6	0.2	53	0.11	0.032	14	31	0.68	134	0.035	0.5	1.95	0.005	0.04	0.2
1466630	3.7	4	9	0.3	0.7	0.2	59	0.1	0.023	12	31	0.48	115	0.04	0.5	1.99	0.006	0.04	0.2
1466631	1.2	4.4	7	0.5	0.5	0.1	60	0.08	0.025	12	40	0.99	106	0.025	0.5	2.17	0.004	0.04	0.1
1466632	1.2	3.4	6	0.3	0.4	0.2	50	0.12	0.053	9	20	0.91	89	0.022	0.5	2.08	0.005	0.04	0.1
1466633	2.8	4.3	8	0.3	0.7	0.1	61	0.1	0.023	12	33	0.8	130	0.047	0.5	2.03	0.005	0.05	0.2
1466634	2.9	5.7	6	0.6	0.4	0.2	55	0.08	0.029	15	30	1.05	122	0.03	2	2.08	0.004	0.03	0.1
1466635	2	2.5	7	0.7	0.7	0.3	72	0.09	0.058	11	33	0.71	146	0.02	0.5	2.05	0.005	0.04	0.1
1466636	4.3	2.8	9	0.3	0.6	0.3	60	0.1	0.035	15	29	0.5	174	0.034	2	1.86	0.007	0.03	0.2
1466637	1.1	3	10	0.4	0.7	0.2	68	0.12	0.036	11	33	0.66	171	0.049	2	2.08	0.006	0.04	0.2
1466638	1.6	2.7	10	0.5	0.5	0.2	68	0.16	0.036	12	35	0.9	80	0.047	0.5	1.99	0.004	0.03	0.2
1466639	1.7	4.1	10	0.4	0.4	0.2	58	0.18	0.038	11	30	1.09	117	0.049	1	2.06	0.004	0.03	0.2
1466640	0.6	3.7	7	0.3	0.2	0.3	64	0.18	0.073	11	36	1.85	45	0.04	0.5	2.36	0.002	0.03	0.2
1466641	0.25	3.9	7	0.2	0.2	0.05	60	0.16	0.057	10	36	1.52	89	0.031	0.5	2.25	0.002	0.03	0.1
1466642	2.1	3	8	0.2	0.4	0.2	66	0.11	0.039	11	30	0.67	152	0.027	0.5	1.91	0.004	0.04	0.1
1466643	0.25	3.1	7	0.1	0.4	0.1	62	0.1	0.05	10	30	0.97	139	0.014	0.5	2.21	0.002	0.03	0.1
1466644	3.8	5.2	10	0.2	0.6	0.2	61	0.13	0.031	14	33	0.73	196	0.038	1	2.11	0.006	0.05	0.2
1466645	0.9	3.6	8	0.4	0.6	0.2	56	0.08	0.044	13	26	0.64	158	0.024	0.5	1.87	0.004	0.03	0.1
1466646	0.25	5.2	4	0.3	0.3	0.05	45	0.08	0.052	19	25	1.36	68	0.024	0.5	1.99	0.002	0.02	0.05
1466647	3.5	5.9	7	0.05	0.8	0.7	29	0.04	0.062	19	19	0.95	84	0.032	0.5	1.76	0.003	0.03	0.1
1466648	2.5	4	8	0.2	0.4	0.2	68	0.1	0.049	10	35	1.17	148	0.045	1	2.17	0.004	0.05	0.2
1466649	0.25	6.7	8	0.2	0.2	0.05	51	0.15	0.064	10	33	1.49	96	0.073	0.5	2.1	0.002	0.08	0.1
1466650	0.6	7	8	0.2	0.3	0.05	50	0.15	0.069	11	32	1.52	102	0.068	0.5	2.14	0.002	0.07	0.1
1466726	0.8	8.5	16	0.05	0.1	0.05	40	0.22	0.06	34	78	1.81	236	0.127	1	1.94	0.004	0.32	0.05
1466727	0.25	8.4	15	0.3	0.1	0.05	27	0.19	0.06	18	31	1.21	253	0.09	0.5	1.41	0.003	0.48	0.05
1466728	2.2	10.7	23	0.05	0.3	0.2	24	0.2	0.04	27	20	1.07	239	0.082	2	1.3	0.004	0.16	0.1
1466729	4	9.8	22	0.3	0.7	0.4	23	0.1	0.037	23	23	1.51	159	0.021	1	1.71	0.006	0.05	0.05
1466730	2.3	5.3	7	0.9	0.6	0.1	9	0.11	0.024	24	9	0.94	71	0.052	2	1.24	0.002	0.02	0.1
1466731	2	14.4	6	0.2	0.7	0.2	8	0.005	0.035	32	7	0.05	131	0.031	0.5	0.62	0.008	0.05	0.05
1466731	1	14.1	5	0.2	0.6	0.2	7	0.005	0.036	32	7	0.05	135	0.029	0.5	0.63	0.007	0.05	0.05
1466732	5.4	14.6	8	0.1	0.4	0.2	28	0.08	0.015	23	17	0.29	276	0.03	1	1	0.005	0.04	0.4
1466733	3.1	9.5	13	0.05	0.4	0.2	34	0.11	0.017	26	21	0.38	473	0.035	1	1.06	0.006	0.04	0.2

sample_id	hg_ppm	sc_ppm	tl_ppm	s_pct	ga_ppm	se_ppm	te_ppm
1444325	0.02	2.9	0.05	0.025	4	0.25	0.1
1466628	0.03	3.4	0.2	0.025	6	0.8	0.2
1466629	0.03	3.3	0.1	0.025	5	0.25	0.1
1466630	0.02	3.7	0.1	0.025	5	0.25	0.1
1466631	0.02	4.3	0.05	0.025	6	0.25	0.1
1466632	0.005	2.8	0.05	0.025	6	0.25	0.1
1466633	0.02	4.1	0.1	0.025	6	0.25	0.1
1466634	0.02	3.7	0.05	0.025	5	0.25	0.1
1466635	0.03	3.5	0.1	0.025	7	0.25	0.1
1466636	0.02	3.5	0.1	0.025	6	0.25	0.1
1466637	0.02	3.6	0.1	0.025	6	0.25	0.1
1466638	0.01	3.3	0.1	0.025	7	0.25	0.1
1466639	0.02	3.6	0.1	0.025	6	0.25	0.1
1466640	0.005	3.6	0.05	0.025	6	0.25	0.1
1466641	0.005	3.9	0.05	0.025	7	0.25	0.1
1466642	0.02	3.1	0.1	0.025	7	0.25	0.1
1466643	0.02	3.2	0.05	0.025	8	0.25	0.1
1466644	0.02	3.8	0.1	0.025	6	0.25	0.1
1466645	0.01	2.9	0.05	0.025	6	0.25	0.1
1466646	0.01	2.9	0.05	0.025	5	0.25	0.1
1466647	0.01	2.1	0.05	0.025	4	2.2	0.1
1466648	0.01	3.7	0.1	0.025	7	0.25	0.1
1466649	0.005	2.8	0.1	0.025	5	0.25	0.1
1466650	0.01	2.6	0.2	0.025	5	0.25	0.1
1466726	0.005	3.7	0.3	0.025	6	0.25	0.1
1466727	0.005	3	0.4	0.025	5	0.25	0.1
1466728	0.005	3.5	0.2	0.025	4	0.7	0.1
1466729	0.02	5.1	0.05	0.025	5	0.8	0.1
1466730	0.01	2.7	0.05	0.025	3	0.25	0.1
1466731	0.02	0.9	0.05	0.025	1	0.25	0.1
1466731	0.01	0.9	0.05	0.025	1	0.5	0.1
1466732	0.02	2.1	0.05	0.025	2	0.25	0.1
1466733	0.03	3.3	0.05	0.025	3	0.25	0.1

sample_id	sample_project	sample_technique	sample_date	utm_zone	utm_easting	utm_northing	longitude_wgs84	latitude_wgs84	duplicate_of_id	elevation_m	sample_method	sample_depth
1475701	HUN	CG01	#####	07N	597728	7090743	-139.0067061	63.93001686		816	Auger	60
1475702	HUN	CG01	#####	07N	597766	7090777	-139.00591	63.93031114		808	Auger	60
1475703	HUN	CG01	#####	07N	597807	7090805	-139.0050565	63.93055076		802	Auger	50
1475704	HUN	CG01	#####	07N	597847	7090843	-139.004217	63.93088034		797	Auger	60
1475705	HUN	CG01	#####	07N	597878	7090873	-139.003566	63.9311407		791	Auger	80
1475706	HUN	CG01	#####	07N	597920	7090903	-139.0026908	63.93139796		789	Auger	60
1475707	HUN	CG01	#####	07N	597960	7090937	-139.0018537	63.93169166		787	Auger	70
1475708	HUN	CG01	#####	07N	598002	7090967	-139.0009785	63.93194891		783	Auger	70
1475709	HUN	CG01	#####	07N	598037	7090997	-139.0002459	63.93220812		779	Auger	70
1475709	HUN	CG01	#####	07N	598037	7090997	-139.0002459	63.93220812		779	Auger	70
1475710	HUN	CG01	#####	07N	598064	7091042	-138.9996668	63.93260412		774	Auger	50
1475711	HUN	CG01	#####	07N	598076	7091090	-138.9993915	63.93303123		767	Auger	60
1475712	HUN	CG01	#####	07N	598090	7091138	-138.9990754	63.93345779		759	Auger	60
1475713	HUN	CG01	#####	07N	598103	7091185	-138.9987804	63.93387565		750	Auger	60
1475714	HUN	CG01	#####	07N	598120	7091234	-138.9984025	63.93431033		743	Auger	60
1475715	HUN	CG01	#####	07N	598132	7091283	-138.9981265	63.93474641		742	Auger	60
1475716	HUN	CG01	#####	07N	598147	7091329	-138.9977913	63.93515475		738	Auger	60
1475717	HUN	CG01	#####	07N	598160	7091378	-138.9974949	63.93559055		736	Auger	50
1475718	HUN	CG01	#####	07N	598172	7091426	-138.9972195	63.93601766		732	Auger	50
1477176	HUN	NK01	#####	07N	600737	7088287	-138.9469919	63.90713393		1074	Auger	60
1477177	HUN	NK01	#####	07N	600755	7088318	-138.9466051	63.90740675		1082	Auger	60
1477178	HUN	NK01	#####	07N	600781	7088360	-138.946048	63.90777592		1084	Auger	60
1477179	HUN	NK01	#####	07N	600806	7088405	-138.9455094	63.90817227		1074	Auger	60
1477180	HUN	NK01	#####	07N	600830	7088446	-138.9449937	63.90853304		1059	Auger	70
1477181	HUN	NK01	#####	07N	600855	7088489	-138.9444564	63.90891145		1045	Auger	110
1477182	HUN	NK01	#####	07N	600880	7088532	-138.943919	63.90928986		1030	Auger	110
1477183	HUN	NK01	#####	07N	600906	7088576	-138.9433606	63.90967695		1016	Auger	80
1477184	HUN	NK01	#####	07N	600931	7088619	-138.9428232	63.91005536		1005	Auger	70
1477185	HUN	NK01	#####	07N	600956	7088662	-138.9422858	63.91043376		998	Auger	110
1477186	HUN	NK01	#####	07N	600982	7088706	-138.9417273	63.91082084		994	Auger	60
1477187	HUN	NK01	#####	07N	601008	7088753	-138.9411669	63.91123483		994	Auger	60
1477188	HUN	NK01	#####	07N	601031	7088794	-138.9406715	63.91159587		995	Auger	80
1477189	HUN	NK01	#####	07N	601057	7088838	-138.940113	63.91198295		1000	Auger	50

sample_id	sampld_hori:	site_slope	soil_colour	site_vegetatio	site_ground_c	sample_moist	sample_qualit	sample_textur	sample_note_	sample_note_additional_	ren	type
1475701	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss Damp	Good	Sand	Quartz Chips				Soil
1475702	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss Damp	Good	Sand					Soil
1475703	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss Damp	Good	Sand					Soil
1475704	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss Damp	Good	Sand					Soil
1475705	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss Damp	Good	Sand					Soil
1475706	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss Damp	Good	Sand					Soil
1475707	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss Damp	Good	Sand					Soil
1475708	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss Damp	Good	Sand					Soil
1475709	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss Damp	Good	Sand					Soil
1475709	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss Damp	Good	Sand					REP
1475710	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss Damp	Good	Sand					Soil
1475711	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss Damp	Good	Sand					Soil
1475712	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss Damp	Good	Sand					Soil
1475713	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss Damp	Good	Sand					Soil
1475714	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss Damp	Good	Sand					Soil
1475715	C	Subtle Slope	Light Brown	Poplar	Reindeer Moss Damp	Good	Sand					Soil
1475716	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss Damp	Good	Sand					Soil
1475717	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss Damp	Good	Sand					Soil
1475718	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss Damp	Good	Sand					Soil
1477176	B	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss Damp	Excellent	Silt					Soil
1477177	B	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss Damp	Excellent	Silt					Soil
1477178	B	Subtle Slope	Chocolate Brov	Alders	Reindeer Moss Damp	Good	Silt					Soil
1477179	B	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss Damp	Excellent	Silt					Soil
1477180	B	Subtle Slope	Light Brown	Alders	Reindeer Moss Damp	Good	Silt					Soil
1477181	C	Subtle Slope	Light Brown	Alders	Reindeer Moss Damp	Excellent	Silt					Soil
1477182	B	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss Damp	Excellent	Silt					Soil
1477183	B	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss Damp	Excellent	Silt					Soil
1477184	B	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss Damp	Excellent	Silt					Soil
1477185	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss Damp	Excellent	Silt					Soil
1477186	B	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss Damp	Excellent	Silt					Soil
1477187	B	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss Damp	Excellent	Silt					Soil
1477188	B	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss Damp	Excellent	Silt					Soil
1477189	B	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss Damp	Good	Silt					Soil

sample_id	shipment_id	client	job_number	file_created	received	mo_ppm	cu_ppm	pb_ppm	zn_ppm	ag_ppm	ni_ppm	co_ppm	mn_ppm	fe_pct	as_ppm	u_ppm
1475701	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	0.4	6.3	16.8	35	0.05	5.6	3	85	0.8	1.7	2.1
1475702	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.6	11.8	105.4	98	0.05	11.1	6.6	256	1.54	2.9	2.1
1475703	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1	5.8	58.5	65	0.05	6.1	3.3	182	1.46	3.5	1.8
1475704	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	0.7	9.7	35.6	62	0.05	14.7	6.5	187	1.37	2.1	2.1
1475705	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.2	4.6	37.8	63	0.05	3.1	1.4	204	1.17	0.9	3.9
1475706	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.6	60.4	426.1	240	0.05	15.3	8.6	472	3.01	3.3	6.2
1475707	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.2	10.7	40.9	45	0.05	6.5	3.8	141	1.37	3.2	2
1475708	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	0.7	10.1	17.4	32	0.05	3.5	3.1	141	0.96	1.5	1.7
1475709	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	0.9	60.5	147.1	161	0.05	9.1	6.9	361	2.42	3.1	2.9
1475709	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	0.8	65.6	148.4	167	0.05	9.7	7.6	392	2.55	3.1	3
1475710	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	0.9	184.2	251.2	30	0.9	4.6	1.8	73	0.9	2.9	1.2
1475711	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	4	38.3	65.6	46	0.05	3.6	2	72	1.05	2.7	3
1475712	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.5	14.5	34.3	47	0.05	6.9	3.6	111	1.87	6.1	1.4
1475713	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	0.6	20.3	72.9	41	0.05	3.5	2.4	75	0.94	3.3	2.3
1475714	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.4	37.7	45.9	93	0.2	20.9	8.7	311	2.69	9.1	4.2
1475715	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	0.7	24.3	58.5	70	0.05	3.4	1.9	129	1.02	1.8	3.1
1475716	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	2.5	18.7	108.2	97	0.1	3.7	2.9	135	1.61	3.2	2.1
1475717	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	0.9	19.2	73.2	50	0.3	8.5	3.5	111	1.47	4.3	1.9
1475718	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.6	15.4	37	84	0.2	17	9.4	314	2.91	12.2	0.6
1477176	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.4	42.4	13.5	77	0.8	35	13.9	337	3.26	20.2	0.8
1477177	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.4	28.4	13	65	0.2	27.9	10.9	283	3.05	14.4	0.6
1477178	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.6	28.6	17.5	79	0.05	14.4	15.6	718	4.07	8.9	0.5
1477179	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.5	31.1	13.6	104	0.1	21.5	14.1	588	3.45	6.7	0.5
1477180	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.5	26.1	7.5	90	0.2	18.2	12.1	657	3.21	4.9	0.7
1477181	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.9	25.9	14.3	78	0.3	19.8	12.9	539	3.19	6.5	1.2
1477182	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.2	26.8	13.7	84	0.4	21	17.9	958	3.64	7	0.9
1477183	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.4	34.4	16.1	77	0.4	23	13.5	546	3.14	32	0.9
1477184	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.7	14.3	25.2	52	0.1	11.3	5.8	345	1.82	7.4	1.3
1477185	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.5	25.8	56.9	89	0.3	13.1	7.4	766	1.96	7.1	1.4
1477186	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.3	21.6	64.8	133	0.05	13.1	10.1	630	2.17	5.6	1.2
1477187	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.5	31.5	21.9	80	0.05	24	11.7	429	3.52	28.5	1.1
1477188	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	2.6	55.7	36.8	104	0.5	30.7	14.3	626	3.71	76	1
1477189	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.7	38.9	13.7	93	0.5	27.6	14	522	3.65	326.4	1.1

sample_id	au_ppb	th_ppm	sr_ppm	cd_ppm	sb_ppm	bi_ppm	v_ppm	ca_pct	p_pct	la_ppm	cr_ppm	mg_pct	ba_ppm	ti_pct	b_ppm	al_pct	na_pct	k_pct	w_ppm
1475701	0.7	17.2	9	0.05	0.2	0.2	15	0.08	0.005	42	14	0.42	75	0.041	0.5	0.63	0.003	0.07	0.05
1475702	1.1	11.9	15	0.3	0.5	0.5	25	0.26	0.022	36	19	0.85	111	0.081	2	1.14	0.004	0.13	0.1
1475703	0.25	15.7	7	0.2	0.6	1	23	0.06	0.013	39	12	0.34	121	0.034	1	0.94	0.004	0.07	0.1
1475704	1.2	15.2	13	0.2	0.3	0.4	19	0.19	0.022	33	29	0.8	106	0.079	1	1.06	0.003	0.15	0.05
1475705	0.25	20.2	12	0.05	0.2	0.6	7	0.12	0.017	36	3	0.55	199	0.013	0.5	0.76	0.004	0.12	0.05
1475706	0.25	18.5	32	0.6	0.4	1.1	44	0.18	0.054	55	26	1.38	280	0.083	0.5	1.91	0.005	0.47	0.05
1475707	4.5	19.7	11	0.05	0.3	0.2	17	0.08	0.012	38	11	0.48	127	0.045	0.5	0.92	0.005	0.1	0.1
1475708	4.8	23.6	8	0.05	0.2	0.2	7	0.05	0.009	52	5	0.35	118	0.018	1	0.65	0.004	0.08	0.05
1475709	0.8	14.6	21	0.5	0.4	0.7	49	0.23	0.027	31	19	1.12	268	0.112	1	1.52	0.006	0.09	0.05
1475709	2.4	15.1	21	0.4	0.4	0.7	52	0.23	0.027	33	21	1.14	267	0.117	0.5	1.55	0.006	0.09	0.05
1475710	1.2	12.4	4	0.05	0.6	3.3	12	0.02	0.015	31	7	0.14	74	0.013	0.5	0.68	0.003	0.05	0.05
1475711	0.5	22.6	4	0.05	0.2	0.5	8	0.02	0.013	46	6	0.15	85	0.011	0.5	0.63	0.002	0.06	0.05
1475712	0.25	12.2	7	0.1	0.4	0.3	35	0.04	0.019	24	15	0.25	180	0.026	0.5	1.25	0.005	0.05	0.05
1475713	0.25	18.7	4	0.2	0.3	0.2	15	0.03	0.015	48	8	0.14	97	0.018	0.5	0.64	0.004	0.06	0.05
1475714	2.5	13.8	10	0.3	0.7	0.4	53	0.08	0.016	33	36	0.65	237	0.075	1	1.84	0.007	0.07	0.05
1475715	0.25	18.9	3	0.2	0.3	0.6	8	0.02	0.01	54	6	0.27	61	0.023	0.5	0.67	0.002	0.09	0.05
1475716	0.6	14.2	10	0.4	0.4	0.9	16	0.04	0.019	32	6	0.37	117	0.028	1	1.01	0.003	0.12	0.05
1475717	0.25	9.9	8	0.1	0.4	0.3	26	0.07	0.01	25	15	0.25	153	0.036	1	0.94	0.005	0.05	0.1
1475718	3.2	6.8	11	0.5	0.7	0.3	55	0.08	0.049	13	29	0.37	189	0.054	1	1.64	0.007	0.07	0.1
1477176	5.4	5.8	8	0.2	0.6	0.2	59	0.09	0.026	17	39	0.86	153	0.033	0.5	2.27	0.006	0.05	0.2
1477177	5.6	3.9	10	0.2	0.8	0.2	57	0.1	0.028	12	33	0.69	131	0.046	2	2.08	0.006	0.05	0.2
1477178	3.6	3.5	7	0.2	0.2	0.2	71	0.11	0.056	7	19	1.5	74	0.043	0.5	2.29	0.003	0.06	0.05
1477179	2.3	2.6	10	0.2	0.3	0.1	62	0.21	0.064	10	32	1.56	87	0.033	0.5	2.26	0.003	0.05	0.1
1477180	0.8	3.3	12	0.2	0.1	0.05	68	0.21	0.072	10	26	1.53	147	0.081	0.5	1.84	0.003	0.32	0.05
1477181	5	3.9	10	0.2	0.2	0.2	48	0.17	0.062	25	25	1.4	122	0.061	1	1.82	0.004	0.08	0.05
1477182	2.2	2.4	9	0.2	0.1	0.2	55	0.16	0.077	17	30	1.44	69	0.037	0.5	1.98	0.003	0.06	0.05
1477183	7.4	3.1	10	0.4	0.4	0.2	43	0.17	0.058	25	27	1.01	117	0.024	1	1.74	0.004	0.05	0.1
1477184	1.2	7.2	8	0.2	0.2	0.3	27	0.13	0.042	28	15	0.72	101	0.023	0.5	1.22	0.003	0.08	0.05
1477185	0.8	15.5	7	0.7	0.1	0.5	15	0.14	0.063	40	12	0.89	53	0.024	0.5	1.1	0.002	0.08	0.05
1477186	2.8	10.4	8	0.4	0.2	0.2	21	0.14	0.066	19	17	0.82	82	0.083	0.5	1.3	0.003	0.25	0.05
1477187	6	5.2	10	0.3	1	0.2	60	0.11	0.037	22	35	0.81	210	0.031	0.5	2.29	0.006	0.06	0.2
1477188	5.7	4.6	8	0.6	0.5	0.5	46	0.12	0.067	24	26	0.8	139	0.021	0.5	1.84	0.004	0.04	0.2
1477189	7.4	6.8	7	0.4	0.5	0.05	45	0.09	0.052	22	24	0.96	149	0.043	0.5	2.05	0.005	0.06	0.6

sample_id	hg_ppm	sc_ppm	tl_ppm	s_pct	ga_ppm	se_ppm	te_ppm
1475701	0.005	2.7	0.2	0.06	2	0.25	0.1
1475702	0.005	2.8	0.3	0.025	4	0.25	0.1
1475703	0.005	2.2	0.1	0.025	4	0.25	0.1
1475704	0.005	2.4	0.3	0.025	3	0.25	0.1
1475705	0.005	1.5	0.1	0.08	5	0.25	0.1
1475706	0.01	5.1	0.5	0.14	8	0.7	0.1
1475707	0.02	2.8	0.1	0.025	3	0.25	0.1
1475708	0.005	2	0.1	0.025	2	0.25	0.1
1475709	0.005	5.4	0.2	0.025	6	0.25	0.1
1475709	0.005	5.7	0.2	0.025	6	0.25	0.1
1475710	0.01	0.9	0.05	0.025	2	1.6	0.1
1475711	0.01	1.6	0.1	0.025	2	0.25	0.1
1475712	0.005	2.1	0.1	0.025	4	0.7	0.1
1475713	0.01	1.6	0.05	0.025	2	0.6	0.1
1475714	0.02	6	0.2	0.025	5	1	0.1
1475715	0.005	1.4	0.05	0.025	3	0.25	0.1
1475716	0.005	1.4	0.2	0.025	4	1.2	0.1
1475717	0.01	2.5	0.05	0.025	3	0.25	0.1
1475718	0.02	2.3	0.1	0.025	5	0.25	0.1
1477176	0.03	4.3	0.1	0.025	6	0.7	0.1
1477177	0.04	3.7	0.1	0.025	6	0.25	0.1
1477178	0.01	4.4	0.1	0.025	9	0.25	0.1
1477179	0.01	3.5	0.1	0.025	7	0.25	0.1
1477180	0.005	4.5	0.2	0.025	7	0.25	0.1
1477181	0.02	3.7	0.1	0.025	6	0.25	0.1
1477182	0.01	3.3	0.05	0.025	6	0.25	0.1
1477183	0.02	2.7	0.2	0.025	6	0.6	0.1
1477184	0.005	1.8	0.1	0.025	4	0.25	0.1
1477185	0.005	1.9	0.1	0.025	3	0.25	0.1
1477186	0.005	1.7	0.3	0.025	4	0.25	0.1
1477187	0.02	4.1	0.2	0.025	7	0.25	0.1
1477188	0.02	2.7	0.1	0.025	5	0.6	0.1
1477189	0.02	3.1	0.2	0.025	5	0.25	0.1

sample_id	sample_project	sample_technique	sample_date	utm_zone	utm_easting	utm_northing	longitude_wgs84	latitude_wgs84	duplicate_of_id	elevation_m	sample_method	sample_depth
1477190	HUN	NK01	#####	07N	601081	7088881	-138.9395959	63.91236163		1004	Auger	50
1477191	HUN	NK01	#####	07N	601090	7088913	-138.9393915	63.91264601		1003	Auger	50
1477192	HUN	NK01	#####	07N	601104	7088962	-138.9390741	63.9130814		1003	Auger	70
1477193	HUN	NK01	#####	07N	601117	7089012	-138.9387764	63.91352605		1004	Auger	100
1477194	HUN	NK01	#####	07N	601127	7089056	-138.9385437	63.91391775		1004	Auger	80
1477195	HUN	NK01	#####	07N	601141	7089107	-138.938225	63.91437108		1002	Auger	70
1477196	HUN	NK01	#####	07N	601153	7089154	-138.9379496	63.91478911		999	Auger	60
1477197	HUN	NK01	#####	07N	601166	7089204	-138.9376518	63.91523375		996	Auger	70
1477198	HUN	NK01	#####	07N	601181	7089256	-138.937312	63.91569576		996	Auger	60
1477199	HUN	NK01	#####	07N	601191	7089299	-138.93708	63.91607849		997	Auger	70
1477200	HUN	NK01	#####	07N	601205	7089349	-138.9367618	63.91652284		1001	Auger	90
1480018	HUN	RW02	#####	07N	596701	7089037	-139.0287131	63.91500253		957	Auger	30
1480019	HUN	RW02	#####	07N	596744	7089064	-139.0278202	63.91523276		955	Auger	60
1480020	HUN	RW02	#####	07N	596783	7089095	-139.0270062	63.91549998		956	Auger	60
1480021	HUN	RW02	#####	07N	596826	7089120	-139.0261144	63.91571226		954	Auger	50
1480022	HUN	RW02	#####	07N	596869	7089147	-139.0252214	63.91594248		950	Auger	60
1480023	HUN	RW02	#####	07N	596909	7089177	-139.0243877	63.91620043		951	Auger	40
1480024	HUN	RW02	#####	07N	596952	7089204	-139.0234946	63.91643064		951	Auger	80
1480025	HUN	RW02	#####	07N	596952	7089204	-139.0234946	63.91643064	1480024	951	Auger	80
1480176	HUN	RW02	#####	07N	596993	7089231	-139.0226423	63.91666139		955	Auger	50
1480177	HUN	RW02	#####	07N	597033	7089261	-139.0218085	63.91691933		954	Auger	20
1480178	HUN	RW02	#####	07N	597077	7089288	-139.020895	63.91714924		955	Auger	20
1480179	HUN	RW02	#####	07N	597117	7089314	-139.0200637	63.91737129		957	Auger	30
1480180	HUN	RW02	#####	07N	597159	7089342	-139.0191903	63.91761072		959	Auger	20
1480181	HUN	RW02	#####	07N	597200	7089371	-139.0183367	63.91785939		963	Auger	20
1480182	HUN	RW02	#####	07N	597243	7089398	-139.0174436	63.91808956		964	Auger	40
1480182	HUN	RW02	#####	07N	597243	7089398	-139.0174436	63.91808956		964	Auger	40
1480183	HUN	RW02	#####	07N	597282	7089485	-139.0165939	63.91885896		950	Auger	30
1480184	HUN	RW02	#####	07N	597300	7089555	-139.0161828	63.91948175		936	Auger	60
1480185	HUN	RW02	#####	07N	597314	7089603	-139.0158671	63.91990834		930	Auger	20
1480186	HUN	RW02	#####	07N	597327	7089653	-139.0155706	63.92035315		924	Auger	30
1480187	HUN	RW02	#####	07N	597342	7089701	-139.0152345	63.92077946		919	Auger	40
1480188	HUN	RW02	#####	07N	597357	7089747	-139.0148997	63.92118784		915	Auger	40

sample_id	sampled_hori:	site_slope	soil_colour	site_vegetatio	site_ground_c	sample_moist	sample_qualit	sample_textur	sample_note_	sample_note_additional_	ren	type
1477190	B	Subtle Slope	Reddish Brown	Black Spruce	Reindeer Moss	Damp	Good	Clay				Soil
1477191	B	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss	Damp	Excellent	Silt				Soil
1477192	B	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss	Damp	Excellent	Silt				Soil
1477193	B	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss	Damp	Excellent	Silt				Soil
1477194	B	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss	Damp	Excellent	Silt				Soil
1477195	B	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss	Damp	Excellent	Silt				Soil
1477196	B	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss	Damp	Good	Silt				Soil
1477197	B	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss	Damp	Excellent	Silt				Soil
1477198	B	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss	Damp	Good	Silt				Soil
1477199	B	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss	Damp	Excellent	Silt				Soil
1477200	B	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss	Damp	Excellent	Silt				Soil
1480018	C	Pronounced Sl	Chocolate Brov	Black Spruce	Reindeer Moss	Dry	Excellent	Gravel				Soil
1480019	C	Pronounced Sl	Chocolate Brov	Black Spruce	Reindeer Moss	Dry	Good	Sand				Soil
1480020	C	Pronounced Sl	Chocolate Brov	Black Spruce	Reindeer Moss	Dry	Excellent	Sand				Soil
1480021	C	Pronounced Sl	Dark Blue Blac	Black Spruce	Sphagnum Mo:	Dry	Good	Silt				Soil
1480022	C	Pronounced Sl	Chocolate Brov	Black Spruce	Reindeer Moss	Dry	Good	Sand				Soil
1480023	C	Pronounced Sl	Chocolate Brov	Black Spruce	Sphagnum Mo:	Dry	Good	Silt				Soil
1480024	C	Pronounced Sl	Chocolate Brov	Black Spruce	Reindeer Moss	Dry	Excellent	Gravel				Soil
1480025	C	Pronounced Sl	Chocolate Brov	Black Spruce	Reindeer Moss	Dry	Excellent	Gravel				Soil
1480176	C	Pronounced Sl	Chocolate Brov	Black Spruce	Reindeer Moss	Dry	Excellent	Gravel				Soil
1480177	B	Pronounced Sl	Chocolate Brov	Birch Forest	Sphagnum Mo:	Dry	Good	Silt	Rocky Terrain			Soil
1480178	B	Pronounced Sl	Chocolate Brov	Black Spruce	Reindeer Moss	Dry	Good	Silt				Soil
1480179	B	Subtle Slope	Chocolate Brov	Birch Forest	Sphagnum Mo:	Dry	Good	Silt				Soil
1480180	B	Subtle Slope	Chocolate Brov	Birch Forest	Sphagnum Mo:	Dry	Good	Silt				Soil
1480181	B	Pronounced Sl	Chocolate Brov	Black Spruce	Reindeer Moss	Dry	Good	Silt				Soil
1480182	C	Subtle Slope	Reddish Brown	Black Spruce	Reindeer Moss	Dry	Good	Gravel				REP
1480182	C	Subtle Slope	Reddish Brown	Black Spruce	Reindeer Moss	Dry	Good	Gravel				Soil
1480183	B	Pronounced Sl	Chocolate Brov	Black Spruce	Reindeer Moss	Dry	Good	Silt				Soil
1480184	C	Pronounced Sl	Chocolate Brov	Black Spruce	Reindeer Moss	Dry	Excellent	Gravel				Soil
1480185	B	Pronounced Sl	Chocolate Brov	Black Spruce	Reindeer Moss	Dry	Good	Silt				Soil
1480186	C	Pronounced Sl	Chocolate Brov	Black Spruce	Reindeer Moss	Dry	Excellent	Gravel				Soil
1480187	C	Pronounced Sl	Chocolate Brov	Black Spruce	Reindeer Moss	Dry	Excellent	Gravel				Soil
1480188	C	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss	Dry	Excellent	Gravel				Soil

sample_id	shipment_id	client	job_number	file_created	received	mo_ppm	cu_ppm	pb_ppm	zn_ppm	ag_ppm	ni_ppm	co_ppm	mn_ppm	fe_pct	as_ppm	u_ppm
1477190	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	2.2	33.2	34.1	78	1.1	31.9	14.3	447	4	64.9	0.8
1477191	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.7	20.1	12.2	59	0.4	18.5	10.4	424	3.17	48.8	0.6
1477192	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.7	46.6	15.2	97	0.2	36.1	16.6	696	3.86	66	0.9
1477193	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	2.3	67	17.7	106	0.4	37.6	19.7	913	4.61	41.9	1.4
1477194	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.3	54	13.4	103	0.05	36.4	18.1	724	4.01	29	1.2
1477195	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.8	37.1	12.5	89	0.1	27.1	12.9	496	3.54	225.8	0.9
1477196	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	2	44	9.9	102	0.1	34.4	16.6	514	4.03	19.2	1
1477197	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.2	34.8	11.6	68	0.1	26.2	13	403	3.61	189.4	1
1477198	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.6	19.8	16.6	70	0.05	22.5	12.4	353	3.29	62.3	0.6
1477199	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.6	41.6	15.6	94	0.2	24.6	14.3	630	3.82	15	1
1477200	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	2	41.1	20.2	89	0.4	24.6	13.6	652	3.84	17.3	1.1
1480018	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1	11.3	7.5	29	0.05	8.2	3.4	156	1.24	4.4	2.3
1480019	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	5.5	2.2	24.3	8	0.2	1.6	1.3	56	1.79	2.3	1.2
1480020	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	4.6	3.7	6.4	30	0.05	3.5	2.3	145	1.17	2.1	2.5
1480021	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.5	14.2	12.5	45	0.05	15.1	6.9	226	2.42	8.7	1.3
1480022	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	3.1	8.5	47	86	0.05	5.5	3.3	154	1.59	4.6	1.6
1480023	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	2.9	9.7	11.7	47	0.05	12.1	6.6	383	2.27	7.3	1.7
1480024	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.6	16.6	19.1	41	0.1	13.9	6.3	215	2.29	8	1.2
1480025	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.9	12.8	23.6	30	0.05	10.3	4.5	139	1.84	5.9	0.9
1480176	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	0.8	29.6	21.2	59	0.05	16.9	7.2	281	2.49	9.6	1.6
1480177	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.4	13.2	16.7	54	0.4	12.3	5.5	192	2.58	8.9	0.8
1480178	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.6	22.2	29.6	72	0.3	14.7	6.4	261	2.99	10.3	1.3
1480179	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.1	17.7	14.2	65	0.05	15.9	6.8	214	2.66	12.6	0.7
1480180	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.1	8.5	15.1	56	0.2	6.1	3.5	205	1.93	5.6	0.5
1480181	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.1	7.7	21.4	37	0.1	7.1	2.8	159	1.73	7.1	0.4
1480182	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	2.5	10.3	14	8	0.05	0.8	0.6	16	1.95	4.4	0.4
1480182	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	2.2	10.6	14	8	0.05	1	0.6	16	1.99	4.3	0.3
1480183	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.3	33.9	43.6	31	0.1	10.4	4.8	156	2.19	7.7	0.9
1480184	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.1	35.2	125.7	27	0.1	3.6	1.8	53	1.11	4.7	1.4
1480185	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.1	68.9	119.7	28	0.8	6.5	2.5	73	1.63	8.9	0.9
1480186	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.5	18.8	34.5	39	0.1	9.9	3.3	94	2.05	7.6	0.9
1480187	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	3.8	8.4	26	38	0.1	5.8	2.2	83	1.58	5.3	0.9
1480188	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.5	16	13.5	46	0.05	7.2	6.5	352	2.5	9	1

sample_id	au_ppb	th_ppm	sr_ppm	cd_ppm	sb_ppm	bi_ppm	v_ppm	ca_pct	p_pct	la_ppm	cr_ppm	mg_pct	ba_ppm	ti_pct	b_ppm	al_pct	na_pct	k_pct	w_ppm
1477190	4.3	3.8	7	0.3	0.7	0.3	54	0.07	0.043	22	29	0.8	180	0.017	0.5	2.38	0.005	0.07	0.2
1477191	5.1	2	9	0.2	0.7	0.2	51	0.11	0.06	17	24	0.67	174	0.022	0.5	1.83	0.005	0.06	0.1
1477192	4.6	7.5	7	0.3	0.3	0.2	48	0.17	0.087	20	30	1.35	99	0.02	0.5	2.02	0.003	0.05	0.05
1477193	6.8	9.4	8	0.5	0.3	0.2	48	0.18	0.083	32	27	1.5	106	0.069	0.5	1.97	0.002	0.11	0.05
1477194	3	8.4	6	0.3	0.3	0.05	50	0.14	0.072	23	30	1.55	75	0.044	0.5	2.06	0.003	0.07	0.05
1477195	11.7	2.9	8	0.3	1.1	0.05	48	0.08	0.042	27	26	1.06	173	0.011	0.5	2.07	0.004	0.06	0.05
1477196	4.1	5.6	10	0.2	0.5	0.05	73	0.12	0.051	22	40	1.76	139	0.049	0.5	2.43	0.004	0.07	0.05
1477197	15.3	5.1	15	0.05	1.5	0.2	63	0.16	0.034	21	34	0.86	226	0.031	0.5	1.96	0.006	0.06	0.1
1477198	6.3	3.4	11	0.4	1.6	0.3	48	0.1	0.035	16	27	0.63	154	0.032	2	1.78	0.006	0.08	0.2
1477199	4.1	5.3	10	0.2	0.5	0.3	38	0.16	0.092	34	20	1.15	111	0.014	2	1.93	0.003	0.07	0.05
1477200	4.8	6.1	8	0.2	0.7	0.4	43	0.13	0.086	33	22	1.09	125	0.015	1	2.09	0.003	0.07	0.1
1480018	2.5	13.9	7	0.05	0.4	0.3	20	0.06	0.01	29	14	0.32	167	0.034	0.5	1.03	0.003	0.07	0.1
1480019	0.8	16.8	8	0.05	0.4	5.6	3	0.02	0.015	47	3	0.07	166	0.004	0.5	0.44	0.008	0.17	0.05
1480020	0.25	26.3	5	0.05	0.4	0.4	6	0.05	0.008	61	7	0.61	100	0.025	1	1.05	0.002	0.08	0.05
1480021	2.4	8.2	11	0.05	0.6	0.3	55	0.08	0.017	22	30	0.44	321	0.063	0.5	1.75	0.007	0.05	0.2
1480022	1.4	15.6	5	0.05	0.5	1.1	23	0.03	0.013	23	12	0.27	117	0.02	0.5	0.93	0.003	0.04	0.1
1480023	0.9	14.6	8	0.05	0.8	0.3	35	0.08	0.022	26	21	0.48	204	0.051	2	1.6	0.004	0.07	0.1
1480024	3.2	10.3	9	0.05	0.6	0.5	39	0.07	0.019	25	24	0.36	311	0.043	2	1.32	0.006	0.07	0.2
1480025	1.9	9.4	7	0.05	0.5	0.6	26	0.06	0.014	21	16	0.24	226	0.03	1	0.87	0.006	0.07	0.1
1480176	3.2	9.4	11	0.1	0.8	0.2	48	0.09	0.02	38	28	0.38	257	0.049	2	1.52	0.007	0.06	0.2
1480177	0.25	4.7	11	0.2	0.6	0.3	65	0.11	0.026	25	30	0.33	304	0.045	0.5	1.81	0.007	0.05	0.2
1480178	2.2	8.5	12	0.2	0.8	0.3	67	0.1	0.041	34	30	0.37	293	0.05	2	2.07	0.006	0.06	0.2
1480179	2.2	6	9	0.2	0.7	0.2	55	0.08	0.028	14	28	0.39	167	0.046	1	1.87	0.005	0.06	0.2
1480180	1.3	3.9	10	0.3	0.4	0.2	55	0.1	0.023	13	16	0.21	257	0.041	1	1.26	0.004	0.04	0.2
1480181	1.2	4.7	6	0.1	0.7	0.3	44	0.05	0.021	11	14	0.18	273	0.031	0.5	0.95	0.004	0.06	0.2
1480182	0.25	11.2	0.5	0.05	1.1	0.7	9	0.005	0.014	3	2	0.02	97	0.005	0.5	0.39	0.002	0.07	0.2
1480182	0.25	10.7	0.5	0.05	1.2	0.7	9	0.005	0.014	3	3	0.02	91	0.005	0.5	0.39	0.002	0.07	0.2
1480183	2.1	11.4	9	0.05	0.5	0.7	44	0.07	0.02	16	21	0.25	240	0.032	0.5	1.4	0.006	0.06	0.1
1480184	0.25	20.7	3	0.05	1.1	0.7	8	0.02	0.014	14	5	0.06	81	0.006	1	0.57	0.002	0.08	0.1
1480185	1.3	5.8	8	0.05	0.6	1.4	36	0.06	0.021	19	15	0.16	237	0.028	0.5	1	0.004	0.05	0.2
1480186	0.25	10.2	7	0.05	0.5	0.6	46	0.06	0.021	18	18	0.23	261	0.032	0.5	1.21	0.004	0.05	0.1
1480187	0.8	13.8	4	0.05	0.6	1	17	0.02	0.01	40	16	0.11	131	0.009	1	0.55	0.001	0.08	0.2
1480188	0.25	7.3	8	0.05	1.6	0.4	42	0.07	0.029	30	19	0.73	158	0.022	0.5	1.51	0.003	0.05	0.2

sample_id	hg_ppm	sc_ppm	tl_ppm	s_pct	ga_ppm	se_ppm	te_ppm
1477190	0.04	3.1	0.1	0.025	6	0.25	0.1
1477191	0.02	2.3	0.1	0.025	6	0.25	0.1
1477192	0.01	3.4	0.05	0.025	6	0.25	0.1
1477193	0.005	4.2	0.2	0.025	5	0.6	0.1
1477194	0.005	3.7	0.1	0.025	6	0.25	0.1
1477195	0.01	2.6	0.1	0.025	6	0.25	0.1
1477196	0.03	5.6	0.1	0.025	7	0.25	0.1
1477197	0.02	5.1	0.2	0.025	6	0.25	0.1
1477198	0.02	3.1	0.1	0.025	5	0.25	0.1
1477199	0.01	2.4	0.1	0.025	6	0.25	0.1
1477200	0.02	2.9	0.2	0.025	6	0.25	0.1
1480018	0.005	1.6	0.1	0.025	3	0.25	0.1
1480019	0.005	0.7	0.05	0.22	1	0.25	0.1
1480020	0.005	1.6	0.1	0.025	3	0.25	0.1
1480021	0.02	4.1	0.2	0.09	6	0.25	0.1
1480022	0.01	2.4	0.1	0.025	3	0.25	0.1
1480023	0.01	2.6	0.2	0.025	5	0.25	0.1
1480024	0.02	4.1	0.1	0.025	4	0.25	0.1
1480025	0.01	3.1	0.05	0.025	3	0.7	0.1
1480176	0.03	5.9	0.1	0.025	5	0.25	0.1
1480177	0.04	3.1	0.1	0.07	6	0.25	0.1
1480178	0.04	3.8	0.1	0.025	7	0.25	0.1
1480179	0.02	3.3	0.1	0.025	5	0.25	0.1
1480180	0.02	2	0.1	0.025	6	0.25	0.1
1480181	0.01	1.6	0.1	0.06	5	0.25	0.1
1480182	0.005	0.9	0.05	0.06	2	0.6	0.2
1480182	0.005	0.7	0.05	0.11	2	0.5	0.1
1480183	0.02	2.3	0.1	0.025	5	0.25	0.1
1480184	0.005	1.1	0.05	0.025	1	0.25	0.1
1480185	0.02	2	0.1	0.11	4	0.25	0.1
1480186	0.02	2.2	0.05	0.025	5	0.25	0.1
1480187	0.005	2.1	0.1	0.06	2	0.25	0.1
1480188	0.005	2.1	0.1	0.025	6	0.25	0.1

sample_id	sample_project	sample_technique	sample_date	utm_zone	utm_easting	utm_northing	longitude_wgs84	latitude_wgs84	duplicate_of_id	elevation_m	sample_method	sample_depth
1480189	HUN	RW02	#####	07N	597368	7089796	-139.0146445	63.92162423		910	Auger	50
1480190	HUN	RW02	#####	07N	597379	7089845	-139.0143893	63.92206063		907	Auger	40
1480191	HUN	RW02	#####	07N	597395	7089892	-139.0140334	63.92247769		905	Auger	30
1480192	HUN	RW02	#####	07N	597412	7089940	-139.0136566	63.92290344		902	Auger	20
1480193	HUN	RW02	#####	07N	597421	7089988	-139.0134427	63.92333143		900	Auger	40
1480194	HUN	RW02	#####	07N	597436	7090037	-139.013106	63.9237667		898	Auger	40
1480195	HUN	RW02	#####	07N	597450	7090086	-139.0127896	63.92420226		899	Auger	30
1480196	HUN	RW02	#####	07N	597465	7090132	-139.0124547	63.92461062		900	Auger	40
1480197	HUN	RW02	#####	07N	597475	7090181	-139.0122198	63.92504729		899	Auger	30
1480226	HUN	RW02	#####	07N	599785	7090971	-138.9646341	63.93147886		688	Auger	60
1480227	HUN	RW02	#####	07N	599737	7090957	-138.9656215	63.93136704		677	Auger	30
1480228	HUN	RW02	#####	07N	599686	7090949	-138.9666662	63.93130988		665	Auger	80
1480229	HUN	RW02	#####	07N	599638	7090933	-138.9676549	63.93118011		652	Auger	30
1480230	HUN	RW02	#####	07N	599590	7090923	-138.9686398	63.93110415		638	Auger	40
1538313	HUN	NK01	#####	07N	596516	7088600	-139.0327564	63.91113439		1026	Auger	80
1538314	HUN	NK01	#####	07N	596561	7088589	-139.0318467	63.91102328		1023	Auger	70
1538315	HUN	NK01	#####	07N	596609	7088576	-139.0308772	63.91089339		1014	Auger	70
1538316	HUN	NK01	#####	07N	596659	7088564	-139.0298664	63.91077192		1003	Auger	70
1538318	HUN	NK01	#####	07N	596707	7088552	-139.0288963	63.91065099		994	Auger	90
1538319	HUN	NK01	#####	07N	596756	7088537	-139.0279077	63.91050287		981	Auger	90
1538320	HUN	NK01	#####	07N	596805	7088526	-139.0269166	63.91039062		972	Auger	70
1538321	HUN	NK01	#####	07N	596853	7088514	-139.0259466	63.91026967		963	Auger	90
1538322	HUN	NK01	#####	07N	596903	7088501	-139.0249364	63.91013919		953	Auger	80
1538323	HUN	NK01	#####	07N	596950	7088488	-139.0239873	63.91000954		944	Auger	90
1538323	HUN	NK01	#####	07N	596950	7088488	-139.0239873	63.91000954		944	Auger	90
1538324	HUN	NK01	#####	07N	597002	7088475	-139.0229365	63.90987849		934	Auger	80
1538325	HUN	NK01	#####	07N	597002	7088475	-139.0229365	63.90987849		934	Auger	70
1545062	HUN	LS01	#####	07N	595951	7087710	-139.0448202	63.90330792		1072	Auger	50
1545063	HUN	LS01	#####	07N	595977	7087756	-139.044262	63.90371334		1076	Auger	60
1545064	HUN	LS01	#####	07N	596003	7087800	-139.0437051	63.90410082		1079	Auger	60
1545065	HUN	LS01	#####	07N	596029	7087845	-139.0431476	63.90449727		1083	Auger	50
1545066	HUN	LS01	#####	07N	596055	7087889	-139.0425906	63.90488475		1088	Auger	70
1545067	HUN	LS01	#####	07N	596078	7087936	-139.0420929	63.90529995		1096	Auger	60

sample_id	sampld_hori:	site_slope	soil_colour	site_vegetatio	site_ground_c	sample_moist	sample_qualit	sample_textur	sample_note_	sample_note_additional_	ren	type
1480189	C	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss Dry	Excellent	Gravel					Soil
1480190	C	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss Dry	Good	Silt					Soil
1480191	C	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss Dry	Good	Silt					Soil
1480192	B	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss Dry	Good	Silt					Soil
1480193	C	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss Dry	Excellent	Gravel					Soil
1480194	C	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss Dry	Excellent	Gravel					Soil
1480195	B	Flat	Chocolate Brov	Black Spruce	Reindeer Moss Dry	Good	Silt					Soil
1480196	C	Flat	Chocolate Brov	Black Spruce	Thin Moss Cov Dry	Excellent	Gravel					Soil
1480197	C	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss Dry	Good	Silt					Soil
1480226	C	Pronounced Sl	Chocolate Brov	Black Spruce	Reindeer Moss Dry	Good	Sand					Soil
1480227	B	Pronounced Sl	Chocolate Brov	Black Spruce	Thin Moss Cov Dry	Good	Silt	Fine				Soil
1480228	C	Pronounced Sl	Chocolate Brov	Black Spruce	Reindeer Moss Dry	Excellent	Silt					Soil
1480229	B	Pronounced Sl	Chocolate Brov	Black Spruce	Thin Moss Cov Dry	Good	Silt	Fine				Soil
1480230	C	Pronounced Sl	Chocolate Brov	Birch Forest	Thin Moss Cov Dry	Good	Silt					Soil
1538313	B	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss Damp	Good	Clay					Soil
1538314	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss Damp	Excellent	Silt					Soil
1538315	C	Subtle Slope	Reddish Brown	Black Spruce	Reindeer Moss Damp	Excellent	Silt					Soil
1538316	B	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss Damp	Excellent	Silt					Soil
1538318	B	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss Damp	Excellent	Silt					Soil
1538319	B	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss Damp	Excellent	Silt					Soil
1538320	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss Damp	Excellent	Silt					Soil
1538321	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss Damp	Excellent	Silt					Soil
1538322	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss Damp	Excellent	Silt					Soil
1538323	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss Damp	Excellent	Silt					REP
1538323	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss Damp	Excellent	Silt					Soil
1538324	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss Damp	Excellent	Silt					Soil
1538325	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss Damp	Excellent	Silt					Soil
1545062	C	Subtle Slope	Chocolate Brov	Willows	Sphagnum Mo: Damp	Good	Sand	Dull Red Rust	Quartz Chips			Soil
1545063	C	Flat	Chocolate Brov	Willows	Reindeer Moss Damp	Good	Sand	Quartz Chips	Bright Orange Rust			Soil
1545064	C	Subtle Slope	Chocolate Brov	Willows	Reindeer Moss Damp	Good	Sand	Dull Red Rust	Quartz Chips			Soil
1545065	C	Subtle Slope	Chocolate Brov	Willows	Sphagnum Mo: Damp	Good	Sand	Organic 10%	Dull Red Rust			Soil
1545066	C	Flat	Reddish Orang	Willows	Sphagnum Mo: Damp	Good	Sand	Quartz Chips	Bright Orange Rust			Soil
1545067	C	Flat	Chocolate Brov	Willows	Sphagnum Mo: Damp	Good	Sand	Quartz Chips	Rusty Rock Chip			Soil

sample_id	shipment_id	client	job_number	file_created	received	mo_ppm	cu_ppm	pb_ppm	zn_ppm	ag_ppm	ni_ppm	co_ppm	mn_ppm	fe_pct	as_ppm	u_ppm
1480189	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	0.8	26.7	23.3	52	0.05	12.4	8.3	251	2.23	6.6	0.8
1480190	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.1	11.9	528.7	734	0.3	16	5.3	373	2.38	9.2	1
1480191	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	0.6	14	46.5	89	0.05	13.9	6.1	261	1.65	6.2	1
1480192	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	0.8	16.7	57.2	106	0.05	19.9	6.8	188	2.15	9.5	0.8
1480193	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	0.4	17.6	12.4	96	0.05	16.8	19.8	632	2.72	3.5	1.3
1480194	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.5	10.4	8.2	46	0.05	9	11.2	457	2.06	4.3	2
1480195	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	0.7	12.4	41.6	25	0.2	6.2	2.1	73	1.68	4.4	0.8
1480196	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1	20.5	44.1	55	0.1	21.2	7.9	197	2.39	8.9	1.4
1480197	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	2.2	13.2	22	46	0.05	11.1	5.7	188	2.53	10.9	3.6
1480226	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.8	11.3	10.4	34	0.05	3.9	3.5	118	1.32	4.9	2.2
1480227	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.4	5.2	8.2	27	0.05	4	3.6	558	1.16	4.2	0.9
1480228	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.4	20.4	5.3	61	0.05	10.7	11.8	311	3.41	4.7	0.7
1480229	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.8	9	12.8	68	0.2	10	4.6	239	2.79	8.2	0.6
1480230	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.4	10.8	10.7	60	0.05	4.6	3.1	214	2.11	4.8	0.8
1538313	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	0.9	29.4	25.4	112	0.05	28.7	12.1	377	2.3	3.5	0.6
1538314	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	2.3	21.7	30.2	118	0.05	30.4	12.8	616	2.91	2.5	1.2
1538315	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	2.7	94.5	376.8	432	0.5	20.9	20.4	821	3.57	4.5	1.8
1538316	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	1.1	8.9	51.1	52	0.05	7.7	4.8	207	1.5	5	0.9
1538318	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	1.7	13	17.5	50	0.05	11	5.8	255	2.01	5.2	1.8
1538319	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	1.7	17.1	24	51	0.05	13.7	6.4	268	2.12	7.2	2.3
1538320	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	1.8	14.3	25.8	48	0.05	10.3	4.9	199	1.8	5	1.8
1538321	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	1.9	11.2	9	55	0.05	3.1	1.3	198	1.01	1.7	3.3
1538322	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	1.4	5.4	4.5	37	0.05	2.7	2.1	125	1.26	1.9	3.2
1538323	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	1.6	4.1	4.3	33	0.05	3.1	2.1	167	1.29	1.8	4
1538323	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	1.5	4.3	4.1	33	0.05	3.1	2.2	167	1.28	1.8	3.9
1538324	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	2.1	5.9	10.1	48	0.05	11.6	4.5	206	2.88	3.1	2.1
1538325	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	2.1	4.3	8.6	41	0.05	6.2	3.2	197	2.36	3.5	1.7
1545062	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.6	21.6	45.9	79	0.05	12.7	6.8	289	1.93	6.2	2.3
1545063	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.8	19.8	78.6	97	0.05	8.4	4.7	259	1.59	4	2.3
1545064	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.1	21	93.7	209	0.05	9.8	7.7	406	1.82	2.7	2.2
1545065	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	2.2	26.2	50	79	0.05	14.5	6.4	356	2.54	6	0.9
1545066	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	2.1	25.7	65.7	104	0.05	7.8	6.8	366	1.79	4.2	1.7
1545067	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.9	45.1	58.3	130	0.05	12.5	17.1	620	4.41	5.1	0.8

sample_id	au_ppb	th_ppm	sr_ppm	cd_ppm	sb_ppm	bi_ppm	v_ppm	ca_pct	p_pct	la_ppm	cr_ppm	mg_pct	ba_ppm	ti_pct	b_ppm	al_pct	na_pct	k_pct	w_ppm
1480189	0.25	10.3	13	0.05	0.7	0.2	42	0.19	0.015	27	30	0.68	137	0.105	0.5	1.33	0.004	0.12	0.2
1480190	2.9	6.4	14	1.2	0.8	0.8	57	0.19	0.029	18	30	0.46	184	0.056	2	1.7	0.006	0.04	0.2
1480191	0.25	15.8	12	0.4	0.7	0.2	29	0.16	0.022	17	20	0.42	120	0.05	1	1.24	0.005	0.07	1.7
1480192	0.9	12.1	12	0.7	0.8	0.4	46	0.12	0.015	16	26	0.4	247	0.049	1	1.86	0.005	0.07	0.2
1480193	0.6	8.1	16	0.3	0.8	0.05	51	0.48	0.021	17	58	2.03	136	0.237	3	2.1	0.004	0.34	0.1
1480194	1	9.2	14	0.2	0.7	0.1	44	0.69	0.025	15	28	0.89	114	0.1	2	1.33	0.004	0.12	0.2
1480195	1.3	5.5	5	0.1	0.5	0.2	33	0.04	0.034	21	16	0.15	108	0.026	0.5	1.63	0.004	0.05	0.05
1480196	1.3	18.3	10	0.1	1	0.3	46	0.08	0.015	24	29	0.43	210	0.059	0.5	1.86	0.006	0.06	0.2
1480197	6.2	11.7	6	0.1	1.2	0.3	41	0.05	0.042	40	22	0.23	124	0.022	1	1.45	0.004	0.07	0.1
1480226	4.2	10.5	8	0.05	0.5	0.1	15	0.07	0.018	35	6	0.16	189	0.013	0.5	0.65	0.002	0.07	0.05
1480227	1.1	9.2	6	0.05	0.4	0.2	21	0.05	0.056	25	7	0.15	105	0.018	0.5	0.61	0.002	0.08	0.2
1480228	2.7	2.8	15	0.05	0.8	0.05	69	0.24	0.039	10	18	0.87	322	0.067	0.5	1.73	0.006	0.22	0.1
1480229	3.6	6.6	14	0.1	0.6	0.2	46	0.14	0.074	13	18	0.4	249	0.044	0.5	1.56	0.005	0.19	0.2
1480230	0.25	10.1	11	0.05	0.2	0.05	18	0.09	0.051	17	7	0.31	197	0.059	0.5	1.08	0.004	0.27	0.1
1538313	2.2	2.3	9	0.1	0.3	0.2	51	0.18	0.034	8	81	1.58	74	0.089	1	1.69	0.004	0.06	0.05
1538314	0.25	7.5	9	0.1	0.2	0.3	49	0.18	0.058	18	70	2.33	99	0.107	0.5	2.14	0.003	0.09	0.05
1538315	0.6	8.6	24	1.2	0.8	4.8	68	0.52	0.109	23	30	1.55	228	0.098	1	1.87	0.004	0.29	0.2
1538316	0.5	7.2	8	0.2	0.5	0.4	30	0.08	0.026	18	17	0.3	185	0.03	1	0.84	0.003	0.05	0.1
1538318	20.7	14.1	12	0.05	0.4	0.3	33	0.13	0.022	34	21	0.63	288	0.05	1	1.32	0.005	0.07	0.1
1538319	1.4	13.2	13	0.05	0.5	0.5	38	0.1	0.022	36	25	0.48	275	0.047	0.5	1.32	0.006	0.07	0.1
1538320	1	12.8	12	0.05	0.5	0.5	31	0.1	0.019	31	18	0.35	497	0.034	0.5	1.05	0.006	0.07	0.05
1538321	0.25	27.5	10	0.05	0.2	0.3	11	0.12	0.007	46	5	0.94	360	0.02	0.5	1.02	0.003	0.06	0.1
1538322	0.25	24	8	0.05	0.2	0.6	10	0.09	0.009	36	6	0.63	182	0.024	2	0.94	0.003	0.09	0.1
1538323	0.25	25.3	8	0.05	0.3	0.3	11	0.08	0.009	60	6	0.69	141	0.019	0.5	1.02	0.003	0.05	0.05
1538323	0.25	25.7	8	0.05	0.2	0.3	11	0.08	0.009	59	6	0.65	144	0.019	0.5	1	0.003	0.05	0.05
1538324	1.3	29.3	8	0.05	0.9	0.9	14	0.05	0.022	42	14	1	106	0.01	0.5	1.75	0.003	0.12	0.2
1538325	2.5	26.9	7	0.05	0.8	0.8	15	0.05	0.016	25	10	0.79	94	0.013	1	1.55	0.003	0.14	0.2
1545062	2.5	9	12	0.2	0.4	0.3	35	0.13	0.027	23	21	0.59	253	0.054	1	1.21	0.006	0.07	0.2
1545063	1.6	11.9	12	0.1	0.3	0.3	23	0.1	0.031	22	15	0.61	223	0.055	0.5	1	0.004	0.11	0.1
1545064	1.2	15.7	14	0.2	0.2	0.3	25	0.25	0.035	42	26	1.28	264	0.091	1	1.36	0.005	0.13	0.05
1545065	4.3	3.7	17	0.3	0.5	0.2	43	0.23	0.046	19	23	0.48	228	0.06	0.5	1.36	0.007	0.07	0.2
1545066	5.9	15.6	17	0.4	0.4	0.3	27	0.36	0.066	29	15	0.65	188	0.074	1	0.81	0.005	0.14	0.2
1545067	2.7	3.9	25	0.2	0.7	0.2	76	0.69	0.157	18	21	1.26	300	0.114	0.5	1.74	0.005	0.1	0.2

sample_id	hg_ppm	sc_ppm	tl_ppm	s_pct	ga_ppm	se_ppm	te_ppm
1480189	0.005	3	0.3	0.1	4	0.25	0.1
1480190	0.03	3.1	0.2	0.06	6	0.6	0.1
1480191	0.02	2.2	0.05	0.025	4	0.25	0.1
1480192	0.02	2.6	0.2	0.025	5	0.25	0.1
1480193	0.005	7.8	0.8	0.025	5	0.25	0.1
1480194	0.01	4.5	0.4	0.025	4	0.25	0.1
1480195	0.04	2.6	0.1	0.025	5	0.25	0.1
1480196	0.02	4.7	0.1	0.025	4	0.25	0.1
1480197	0.02	2	0.1	0.025	4	0.25	0.1
1480226	0.01	2.4	0.05	0.025	3	0.25	0.1
1480227	0.01	1.4	0.1	0.025	2	0.25	0.1
1480228	0.005	6.1	0.1	0.025	6	0.25	0.1
1480229	0.005	3.1	0.2	0.025	6	0.25	0.1
1480230	0.02	1.9	0.2	0.025	5	0.25	0.1
1538313	0.01	2.7	0.05	0.025	5	0.25	0.1
1538314	0.005	3.4	0.05	0.025	9	0.25	0.1
1538315	0.01	6.6	0.3	0.025	7	0.6	0.1
1538316	0.005	1.6	0.05	0.025	3	0.25	0.1
1538318	0.02	2.9	0.1	0.025	4	0.25	0.1
1538319	0.02	3.2	0.1	0.025	4	0.25	0.1
1538320	0.02	2.9	0.05	0.025	3	0.25	0.1
1538321	0.005	1.4	0.05	0.025	3	0.25	0.1
1538322	0.005	1.7	0.1	0.025	2	0.25	0.1
1538323	0.005	1.3	0.05	0.025	3	0.25	0.1
1538323	0.005	1.4	0.05	0.025	3	0.25	0.1
1538324	0.005	1.6	0.1	0.025	5	0.5	0.1
1538325	0.005	1.4	0.1	0.025	4	0.6	0.1
1545062	0.01	3.2	0.1	0.025	4	0.25	0.1
1545063	0.01	2.3	0.2	0.11	3	0.25	0.1
1545064	0.005	2.9	0.2	0.07	5	0.25	0.1
1545065	0.02	3.7	0.1	0.15	5	0.5	0.1
1545066	0.005	2.8	0.1	0.09	3	0.25	0.1
1545067	0.01	8.2	0.2	0.07	7	0.6	0.1

sample_id	sample_project	sample_technique	sample_date	utm_zone	utm_easting	utm_northing	longitude_wgs84	latitude_wgs84	duplicate_of_id	elevation_m	sample_method	sample_depth
1545068	HUN	LS01	#####	07N	596102	7087982	-139.0415754	63.90570591		1103	Auger	50
1545069	HUN	LS01	#####	07N	596129	7088027	-139.0409974	63.90610208		1108	Auger	60
1545070	HUN	LS01	#####	07N	596151	7088074	-139.04052	63.90651755		1110	Auger	40
1545071	HUN	LS01	#####	07N	596177	7088118	-139.0399629	63.90690502		1107	Auger	40
1545072	HUN	LS01	#####	07N	596204	7088164	-139.0393843	63.90731014		1100	Auger	50
1545073	HUN	LS01	#####	07N	596230	7088209	-139.0388266	63.90770657		1097	Auger	40
1545074	HUN	LS01	#####	07N	596253	7088256	-139.0383287	63.90812176		1095	Auger	50
1545075	HUN	LS01	#####	07N	596253	7088256	-139.0383287	63.90812176	1545074	1095	Auger	40
1545101	HUN	LS01	#####	07N	596279	7088302	-139.0377704	63.90852716		1091	Auger	50
1545101	HUN	LS01	#####	07N	596279	7088302	-139.0377704	63.90852716		1091	Auger	50
1545102	HUN	LS01	#####	07N	596305	7088347	-139.0372127	63.90892358		1086	Auger	50
1545103	HUN	LS01	#####	07N	596329	7088392	-139.0366956	63.90932055		1081	Auger	60
1545104	HUN	LS01	#####	07N	596356	7088436	-139.0361181	63.90970773		1072	Auger	50
1545105	HUN	LS01	#####	07N	596380	7088483	-139.0355998	63.91012263		1064	Auger	70
1545106	HUN	LS01	#####	07N	596407	7088527	-139.0350223	63.9105098		1053	Auger	60
1545107	HUN	LS01	#####	07N	596431	7088574	-139.034504	63.91092471		1044	Auger	60
1545108	HUN	LS01	#####	07N	596456	7088620	-139.0339659	63.91133036		1035	Auger	60
1545109	HUN	LS01	#####	07N	596481	7088667	-139.0334272	63.91174498		1026	Auger	40
1545110	HUN	LS01	#####	07N	596506	7088712	-139.0328897	63.91214167		1018	Auger	50
1545111	HUN	LS01	#####	07N	596532	7088757	-139.0323269	63.912536		1010	Auger	50
1545112	HUN	LS01	#####	07N	596559	7088801	-139.0317542	63.91292523		1004	Auger	50
1545113	HUN	LS01	#####	07N	596586	7088847	-139.0311753	63.91333032		996	Auger	50
1545114	HUN	LS01	#####	07N	596607	7088895	-139.0307173	63.913755		991	Auger	60
1545115	HUN	LS01	#####	07N	596639	7088941	-139.0300365	63.91415871		983	Auger	60
1545116	HUN	LS01	#####	07N	596659	7088988	-139.0295996	63.9145747		977	Auger	60
1545117	HUN	LS01	#####	07N	601271	7089727	-138.935168	63.9198937		952	Auger	60
1545118	HUN	LS01	#####	07N	601261	7089779	-138.9353374	63.92036296		945	Auger	60
1545119	HUN	LS01	#####	07N	601250	7089830	-138.9355279	63.92082353		935	Auger	60
1545120	HUN	LS01	#####	07N	601241	7089883	-138.9356763	63.92130147		927	Auger	60
1545121	HUN	LS01	#####	07N	601233	7089935	-138.935805	63.92177014		919	Auger	50
1545122	HUN	LS01	#####	07N	601221	7089986	-138.9360159	63.92223101		908	Auger	60
1545123	HUN	LS01	#####	07N	601213	7090038	-138.9361446	63.92269968		900	Auger	60
1545124	HUN	LS01	#####	07N	601201	7090089	-138.9363555	63.92316055		892	Auger	60

sample_id	sampled_hori	site_slope	soil_colour	site_vegetatio	site_ground_c	sample_moist	sample_qualit	sample_textur	sample_note	sample_note_additional	ren	type
1545068	C	Flat	Reddish Brown	Black Spruce	Reindeer Moss	Damp	Good	Silt	Quartz Chips	Dull Red Rust	Sandy, rocky t	Soil
1545069	C	Flat	Chocolate Brov	Willows	Sphagnum Mo:	Damp	Good	Silt	Quartz Chips	Bright Orange I	Coarse	Soil
1545070	C	Flat	Reddish Brown	Willows	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	Small Sample		Soil
1545071	C	Flat	Reddish Brown	Willows	Reindeer Moss	Damp	Good	Silt	Quartz Chips	Rusty Rock Chip		Soil
1545072	C	Subtle Slope	Chocolate Brov	Willows	Sphagnum Mo:	Damp	Good	Sand	Bright Orange I	Quartz Chips		Soil
1545073	C	Flat	Chocolate Brov	Black Spruce	Sphagnum Mo:	Damp	Good	Sand	Dull Red Rust	Quartz Chips		Soil
1545074	C	Subtle Slope	Chocolate Brov	Willows	Reindeer Moss	Damp	Good	Sand	Rusty Rock Ch	Quartz Chips		Soil
1545075	C	Subtle Slope	Chocolate Brov	Willows	Reindeer Moss	Damp	Good	Sand	Organic 10%	Quartz Chips		Soil
1545101	C	Subtle Slope	Chocolate Brov	Willows	Sphagnum Mo:	Damp	Good	Silt	Quartz Chips	Sandy		Soil
1545101	C	Subtle Slope	Chocolate Brov	Willows	Sphagnum Mo:	Damp	Good	Silt	Quartz Chips	Sandy		REP
1545102	C	Flat	Chocolate Brov	Willows	Sphagnum Mo:	Damp	Good	Sand	Dull Red Rust	Quartz Chips		Soil
1545103	C	Flat	Chocolate Brov	Willows	Sphagnum Mo:	Damp	Good	Sand	Quartz Chips	Dull Red Rust		Soil
1545104	C	Flat	Chocolate Brov	Willows	Reindeer Moss	Damp	Good	Silt	Coarse	Quartz Chips		Soil
1545105	C	Subtle Slope	Chocolate Brov	Black Spruce	Sphagnum Mo:	Damp	Good	Sand	Bright Orange I	Quartz Chips		Soil
1545106	C	Subtle Slope	Chocolate Brov	Willows	Sphagnum Mo:	Damp	Good	Silt	Dull Red Rust	Quartz Chips	Sandy	Soil
1545107	C	Flat	Chocolate Brov	Willows	Sphagnum Mo:	Damp	Good	Silt	Dull Red Rust	Rusty Rock Ch	Coarse	Soil
1545108	C	Subtle Slope	Chocolate Brov	Willows	Reindeer Moss	Damp	Good	Silt	Quartz Chips	Dull Red Rust	Coarse	Soil
1545109	C	Subtle Slope	Chocolate Brov	Willows	Sphagnum Mo:	Damp	Good	Silt	Bright Orange I	Quartz Chips	Sandy	Soil
1545110	C	Subtle Slope	Chocolate Brov	Black Spruce	Sphagnum Mo:	Damp	Good	Sand	Bright Orange I	Quartz Chips		Soil
1545111	C	Subtle Slope	Chocolate Brov	Willows	Reindeer Moss	Damp	Good	Sand	Quartz Chips	Dull Red Rust	Rocky terrain, t	Soil
1545112	C	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss	Damp	Good	Sand	Quartz Chips	Rusty Rock Chip		Soil
1545113	C	Subtle Slope	Reddish Brown	Black Spruce	Sphagnum Mo:	Damp	Good	Sand	Quartz Chips	Bright Orange I	Rusty rock chip	Soil
1545114	C	Subtle Slope	Chocolate Brov	Black Spruce	Sphagnum Mo:	Damp	Good	Sand	Dull Red Rust	Quartz Chips		Soil
1545115	C	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss	Damp	Good	Sand	Quartz Chips	Dull Red Rust		Soil
1545116	C	Subtle Slope	Reddish Yellow	Black Spruce	Leaf Cover	Damp	Excellent	Sand	Bright Orange I	Quartz Chips	Rusty rock chip	Soil
1545117	C	Flat	Chocolate Brov	Black Spruce	Reindeer Moss	Damp	Good	Sand	Bright Orange I	Quartz Chips		Soil
1545118	C	Flat	Chocolate Brov	Black Spruce	Reindeer Moss	Damp	Good	Sand	Bright Orange I	Quartz Chips		Soil
1545119	C	Flat	Chocolate Brov	Black Spruce	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Sandy		Soil
1545120	C	Flat	Chocolate Brov	Black Spruce	Reindeer Moss	Damp	Good	Silt	Bright Orange I	Rusty Rock Ch	Sandy	Soil
1545121	C	Flat	Chocolate Brov	Black Spruce	Reindeer Moss	Damp	Good	Sand	Bright Orange I	Rocky Sample		Soil
1545122	C	Flat	Chocolate Brov	Black Spruce	Reindeer Moss	Damp	Good	Silt	Coarse	Dull Red Rust		Soil
1545123	C	Flat	Grey	Black Spruce	Reindeer Moss	Damp	Good	Sand	Rusty Rock Ch	Quartz Chips		Soil
1545124	C	Flat	Bluish Grey	Black Spruce	Sphagnum Mo:	Damp	Good	Sand	Quartz Chips	Rusty Rock Chip		Soil

sample_id	shipment_id	client	job_number	file_created	received	mo_ppm	cu_ppm	pb_ppm	zn_ppm	ag_ppm	ni_ppm	co_ppm	mn_ppm	fe_pct	as_ppm	u_ppm
1545068	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	2.4	28.2	37.6	96	0.05	12.7	14.9	585	4.57	8.2	0.8
1545069	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.4	22.5	15	62	0.05	20.6	9.4	303	2.75	10.7	0.9
1545070	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.5	13.7	14.2	58	0.1	15.4	6.9	198	2.76	11	0.5
1545071	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.3	15.9	22.7	44	0.1	9.9	3.8	152	2.83	9	0.6
1545072	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	2.1	21.3	52.2	60	0.05	13	5.8	272	2.26	7.7	0.8
1545073	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	2.4	51.3	331.9	202	0.3	12.3	9.2	449	4.14	5.2	0.9
1545074	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.7	32.1	143.6	124	0.2	18.5	8.6	316	2.74	7.7	1
1545075	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.4	13.7	54.2	82	0.1	8.1	3.4	269	1.68	3	1.2
1545101	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.5	20	15.4	49	0.05	16.9	7.1	233	2.68	8.5	1.3
1545101	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.4	19.5	15.8	52	0.05	17.3	6.7	234	2.69	8.7	1.3
1545102	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.7	36.5	53	158	0.05	24.3	11.8	626	2.97	5.1	1.5
1545103	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	2.5	43.4	103.1	187	0.05	23.4	14.1	582	3.47	4.8	1.4
1545104	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.5	29.4	62.7	66	0.05	10.4	5.2	254	2.61	6.5	1.6
1545105	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.6	58.4	40	133	0.4	29.5	13	473	3.15	8.7	2.5
1545106	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.9	15.5	47.5	134	0.05	12.7	6.5	366	2.03	4.2	0.9
1545107	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	0.5	29.3	170.3	175	0.2	34.3	18	650	3.15	4.1	0.5
1545108	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	0.8	25.9	32.2	97	0.05	30.6	15	463	2.73	5	0.5
1545109	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.3	16.3	21.3	70	0.05	12.7	4.4	244	1.96	4.4	0.9
1545110	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	2.6	30.5	29.8	76	0.05	22.2	8.8	330	2.44	6.4	1.2
1545111	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	3.2	26.5	33.1	73	0.05	18.9	5.8	312	2.12	3.3	1.2
1545112	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.1	46.5	33.4	140	0.05	16.5	9.5	388	2.26	5.2	2.2
1545113	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	0.8	14.2	41.2	71	0.05	9.3	7.9	406	1.78	2.5	1.6
1545114	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	2.6	32.2	94.7	149	0.05	17.4	9.3	359	2.33	4.8	1.9
1545115	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	4.1	18	33.2	70	0.05	9	6.4	228	2.18	5.1	2.2
1545116	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	2.5	11	11.4	38	0.05	8.6	4.4	186	1.55	4.4	2.4
1545117	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.4	23.3	11.2	77	0.05	19.4	11	447	3.04	24	0.9
1545118	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.6	19.9	9.4	76	0.05	15.8	8	329	2.65	28.1	1.4
1545119	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.5	15.8	8	71	0.05	14.2	7.3	308	2.43	9.4	0.9
1545120	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.6	23.7	25	87	0.05	16	7.6	299	2.52	8.2	0.9
1545121	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.7	43.6	17.7	77	0.05	82.9	27	762	4.04	3.9	0.5
1545122	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.8	59.3	7.4	61	0.05	50.7	17.8	406	3.03	11	1
1545123	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.4	84.4	4.1	66	0.05	62	27.6	781	3.98	5.1	0.3
1545124	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.4	65	4.5	58	0.05	49.8	28.6	623	3.22	4.8	0.3

sample_id	au_ppb	th_ppm	sr_ppm	cd_ppm	sb_ppm	bi_ppm	v_ppm	ca_pct	p_pct	la_ppm	cr_ppm	mg_pct	ba_ppm	ti_pct	b_ppm	al_pct	na_pct	k_pct	w_ppm
1545068	1.4	3.9	20	0.3	0.7	0.2	80	0.4	0.106	15	24	0.89	145	0.101	0.5	1.86	0.006	0.13	0.3
1545069	4	4.5	12	0.2	0.7	0.2	54	0.17	0.04	17	29	0.5	221	0.053	1	1.7	0.007	0.06	0.2
1545070	4.4	3.7	11	0.3	0.7	0.2	54	0.09	0.031	12	27	0.41	161	0.049	0.5	1.93	0.006	0.07	0.2
1545071	2	0.5	9	0.5	0.5	0.2	65	0.11	0.057	14	22	0.27	127	0.036	0.5	1.14	0.005	0.05	0.1
1545072	6.7	6	14	0.1	0.7	0.2	34	0.17	0.02	21	19	0.38	223	0.055	0.5	1	0.007	0.1	0.2
1545073	3.7	5.7	33	0.6	0.6	0.8	70	0.49	0.116	20	39	1.24	376	0.153	0.5	1.71	0.007	0.32	0.2
1545074	2.4	4.5	9	0.4	0.5	0.5	53	0.11	0.027	14	35	0.8	115	0.057	0.5	1.88	0.006	0.05	0.1
1545075	0.25	14.3	4	0.3	0.3	0.5	23	0.07	0.021	25	15	0.9	34	0.044	0.5	1.06	0.002	0.03	0.05
1545101	1.7	7.1	9	0.1	0.6	0.3	57	0.09	0.027	21	30	0.52	147	0.051	0.5	1.87	0.006	0.05	0.1
1545101	2.2	7.2	10	0.1	0.6	0.3	58	0.08	0.029	21	30	0.53	146	0.054	0.5	1.81	0.006	0.05	0.1
1545102	1.3	9.2	11	0.05	0.4	0.7	55	0.2	0.062	21	68	2.16	147	0.103	0.5	2.25	0.004	0.14	0.1
1545103	0.25	7.9	12	0.05	0.4	1.2	70	0.24	0.061	14	82	2.66	112	0.15	0.5	2.42	0.003	0.17	0.05
1545104	1.5	2.2	10	0.1	0.4	1	53	0.1	0.114	18	35	0.65	138	0.051	0.5	1.54	0.005	0.06	0.05
1545105	5	10.3	14	0.3	0.7	0.5	66	0.16	0.032	33	49	0.93	263	0.076	1	2.23	0.009	0.09	0.2
1545106	1.3	6.2	10	0.2	0.3	0.3	36	0.15	0.032	12	27	0.78	79	0.078	1	1.18	0.006	0.14	0.1
1545107	1	2.3	16	0.4	0.5	1.7	72	0.32	0.055	8	82	1.65	247	0.125	0.5	1.86	0.006	0.24	0.1
1545108	1.2	2	10	0.2	0.4	0.2	65	0.2	0.031	8	100	1.81	77	0.109	0.5	2.06	0.005	0.06	0.1
1545109	0.9	2.7	8	0.1	0.2	0.2	42	0.08	0.062	12	37	0.78	64	0.061	0.5	1.25	0.005	0.05	0.05
1545110	3	5.7	11	0.2	0.4	0.3	53	0.12	0.027	20	54	0.96	100	0.092	0.5	1.63	0.006	0.05	0.1
1545111	1.5	0.7	7	0.2	0.3	0.3	41	0.09	0.033	14	42	1.13	85	0.047	0.5	1.43	0.006	0.04	0.05
1545112	1.1	11.4	14	0.4	0.7	0.3	47	0.26	0.029	46	35	0.82	220	0.08	0.5	1.28	0.005	0.13	0.1
1545113	0.6	16.6	12	0.3	0.9	0.3	22	0.17	0.024	30	25	0.63	134	0.081	0.5	1.05	0.004	0.12	0.1
1545114	0.25	9.7	15	0.4	0.6	0.7	31	0.28	0.03	36	42	0.89	192	0.106	0.5	1.24	0.004	0.15	0.2
1545115	4.4	12.1	9	0.2	1	0.4	30	0.1	0.02	32	22	0.41	209	0.049	1	1.16	0.004	0.09	0.2
1545116	1.1	15.1	9	0.05	0.5	0.3	32	0.08	0.013	33	18	0.32	315	0.041	0.5	1.19	0.004	0.07	0.2
1545117	1.5	6.3	11	0.05	0.3	0.2	55	0.17	0.041	21	36	1.6	227	0.055	0.5	2.04	0.004	0.14	0.05
1545118	5.6	5.4	14	0.05	0.4	0.05	40	0.18	0.05	22	34	0.94	209	0.048	0.5	1.61	0.005	0.09	0.1
1545119	1.3	4.8	14	0.2	0.3	0.05	37	0.17	0.055	20	37	0.94	186	0.043	0.5	1.47	0.004	0.09	0.05
1545120	1.9	4.5	11	0.1	0.3	0.2	44	0.11	0.034	18	46	0.93	124	0.057	0.5	1.7	0.005	0.06	0.05
1545121	0.25	2.8	12	0.2	0.3	0.05	80	0.2	0.063	6	162	2.3	56	0.111	0.5	2.33	0.003	0.03	0.05
1545122	2.8	3.6	13	0.05	0.5	0.1	72	0.21	0.029	13	99	1.33	177	0.101	1	2.11	0.006	0.04	0.1
1545123	0.25	0.9	10	0.1	0.2	0.05	122	0.3	0.055	4	162	2.47	180	0.104	0.5	2.63	0.005	0.08	0.05
1545124	0.25	0.7	10	0.2	0.2	0.05	77	0.23	0.05	4	118	1.79	75	0.104	0.5	2.05	0.003	0.02	0.05

sample_id	hg_ppm	sc_ppm	tl_ppm	s_pct	ga_ppm	se_ppm	te_ppm
1545068	0.02	6	0.3	0.11	7	0.5	0.1
1545069	0.02	4.4	0.1	0.09	5	0.25	0.1
1545070	0.05	3.6	0.1	0.11	5	0.25	0.1
1545071	0.03	1.9	0.1	0.11	6	0.25	0.1
1545072	0.02	3.8	0.1	0.13	4	0.6	0.1
1545073	0.005	7.7	0.3	0.27	8	1	0.1
1545074	0.02	3.2	0.1	0.08	6	0.25	0.1
1545075	0.005	1.2	0.05	0.07	5	0.25	0.1
1545101	0.02	3.3	0.1	0.13	6	0.7	0.1
1545101	0.03	3.2	0.2	0.11	7	0.25	0.1
1545102	0.005	4.3	0.2	0.11	7	0.25	0.1
1545103	0.005	4.1	0.3	0.09	7	0.25	0.1
1545104	0.02	3.1	0.2	0.13	7	0.25	0.1
1545105	0.05	7.9	0.2	0.14	7	0.8	0.1
1545106	0.01	2.6	0.1	0.12	6	0.25	0.1
1545107	0.005	4.9	0.2	0.025	6	0.25	0.1
1545108	0.02	3.4	0.1	0.08	7	0.25	0.1
1545109	0.02	2.1	0.05	0.11	6	0.25	0.1
1545110	0.02	3.1	0.1	0.07	6	0.25	0.1
1545111	0.01	1.3	0.05	0.11	7	0.25	0.1
1545112	0.01	5.8	0.2	0.08	5	0.25	0.1
1545113	0.005	3.1	0.2	0.15	3	0.25	0.1
1545114	0.005	3	0.3	0.13	4	0.25	0.1
1545115	0.01	2.9	0.2	0.12	4	0.25	0.1
1545116	0.02	2.7	0.1	0.1	4	0.25	0.1
1545117	0.005	7	0.2	0.025	6	0.25	0.1
1545118	0.005	4.9	0.1	0.025	5	0.25	0.1
1545119	0.005	4.7	0.1	0.025	5	0.25	0.1
1545120	0.01	4	0.1	0.025	5	0.25	0.1
1545121	0.005	5.2	0.05	0.025	7	0.25	0.1
1545122	0.03	5.9	0.05	0.025	6	0.25	0.1
1545123	0.005	9.1	0.05	0.025	8	0.25	0.1
1545124	0.005	3.9	0.05	0.025	5	0.25	0.1

sample_id	sample_project	sample_technique	sample_date	utm_zone	utm_easting	utm_northing	longitude_wgs84	latitude_wgs84	duplicate_of_id	elevation_m	sample_method	sample_depth
1545125	HUN	LS01	#####	07N	601201	7090089	-138.9363555	63.92316055	1545124	892	Auger	40
1545126	HUN	LS01	#####	07N	601190	7090141	-138.9365453	63.92363009		886	Auger	50
1545127	HUN	LS01	#####	07N	601180	7090193	-138.9367148	63.92409935		880	Auger	50
1545128	HUN	LS01	#####	07N	601172	7090244	-138.9368442	63.92455905		873	Auger	50
1545129	HUN	LS01	#####	07N	601156	7090297	-138.9371352	63.92503901		869	Auger	50
1545130	HUN	LS01	#####	07N	601151	7090349	-138.9372028	63.92550682		864	Auger	50
1545131	HUN	LS01	#####	07N	601141	7090400	-138.937373	63.9259671		863	Auger	40
1545132	HUN	LS01	#####	07N	601133	7090451	-138.9375024	63.9264268		861	Auger	50
1545133	HUN	LS01	#####	07N	601121	7090501	-138.937714	63.9268787		863	Auger	40
1545134	HUN	LS01	#####	07N	601112	7090553	-138.9378631	63.92734766		865	Auger	50
1545135	HUN	LS01	#####	07N	601102	7090605	-138.9380326	63.92781691		868	Auger	40
1545136	HUN	LS01	#####	07N	601091	7090655	-138.9382238	63.92826852		873	Auger	50
1545137	HUN	LS01	#####	07N	601083	7090707	-138.9383526	63.92873719		877	Auger	50
1545138	HUN	LS01	#####	07N	601070	7090758	-138.9385839	63.92919834		885	Auger	40
1545139	HUN	LS01	#####	07N	601061	7090812	-138.9387318	63.92968524		894	Auger	40
1545140	HUN	LS01	#####	07N	601048	7090864	-138.9389625	63.93015536		903	Auger	50
1545141	HUN	LS01	#####	07N	601061	7090915	-138.9386639	63.93060898		902	Auger	40
1545142	HUN	LS01	#####	07N	601090	7090961	-138.9380426	63.93101311		899	Auger	70
1545143	HUN	LS01	#####	07N	601124	7091002	-138.9373226	63.93137095		893	Auger	50
1545144	HUN	LS01	#####	07N	601150	7091046	-138.9367636	63.93175801		888	Auger	60
1545145	HUN	LS01	#####	07N	601180	7091088	-138.9361244	63.93212597		883	Auger	50
1545146	HUN	LS01	#####	07N	601212	7091133	-138.9354425	63.93252025		876	Auger	60
1545147	HUN	LS01	#####	07N	601242	7091180	-138.9348	63.93293304		869	Auger	60
1546264	HUN	CG01	#####	07N	597496	7090244	-139.0117518	63.92560645		894	Auger	60
1546265	HUN	CG01	#####	07N	597516	7090296	-139.0113112	63.92606723		891	Auger	60
1546266	HUN	CG01	#####	07N	597537	7090339	-139.0108559	63.92644701		885	Auger	60
1546267	HUN	CG01	#####	07N	597553	7090386	-139.0105	63.92686406		878	Auger	60
1546268	HUN	CG01	#####	07N	597570	7090431	-139.0101249	63.9272629		870	Auger	60
1546269	HUN	CG01	#####	07N	597588	7090480	-139.0097269	63.92769732		862	Auger	60
1546270	HUN	CG01	#####	07N	597606	7090526	-139.0093308	63.92810484		854	Auger	50
1546271	HUN	CG01	#####	07N	597628	7090573	-139.0088525	63.92852021		846	Auger	60
1546272	HUN	CG01	#####	07N	597641	7090620	-139.0085576	63.9289381		839	Auger	60
1546273	HUN	CG01	#####	07N	597660	7090669	-139.0081392	63.92937224		830	Auger	60

sample_id	sampl	horiz	site_slope	soil_colour	site_vegetatio	site_ground_c	sample_moist	sample_qualit	sample_textur	sample_note	sample_note_additional	ren	type
1545125	C		Flat	Chocolate Brov	Black Spruce	Reindeer Moss	Damp	Good	Sand	Quartz Chips	Rocky Sample		Soil
1545126	C		Flat	Grey	Black Spruce	Sphagnum Mo:	Damp	Good	Sand	Quartz Chips	Dull Red Rust		Soil
1545127	C		Flat	Chocolate Brov	Black Spruce	Reindeer Moss	Damp	Good	Silt	Coarse	Rusty Rock Chip		Soil
1545128	C		Flat	Bluish Grey	Black Spruce	Sphagnum Mo:	Damp	Good	Sand	Bright Orange I	Quartz Chips		Soil
1545129	C		Flat	Chocolate Brov	Black Spruce	Sphagnum Mo:	Damp	Good	Sand	Quartz Chips	Rusty Rock Ch	Rocky terrain, t	Soil
1545130	C		Flat	Chocolate Brov	Black Spruce	Sphagnum Mo:	Damp	Good	Silt	Sandy	Dull Red Rust	Rusty rock chip	Soil
1545131	C		Flat	Reddish Orang	Poplar	Leaf Cover	Damp	Good	Silt	Organic 10%	Rocky Terrain		Soil
1545132	C		Flat	Light Grey	Black Spruce	Sphagnum Mo:	Dry	Poor	Clay	Coarse	Quartz Chips	Dull red rust	Soil
1545133	C		Flat	Light Brown	Poplar	Thin Moss Cov	Damp	Good	Silt	Sandy	Rusty Rock Chip		Soil
1545134	C		Flat	Light Brown	Black Spruce	Sphagnum Mo:	Dry	Good	Silt	Coarse	Dull Red Rust		Soil
1545135	B		Flat	Chocolate Brov	Alders	Thin Moss Cov	Dry	Good	Silt	Organic 10%	Rocky Terrain	Small sample	Soil
1545136	C		Flat	Grey	Black Spruce	Sphagnum Mo:	Damp	Good	Sand	Quartz Chips	Dull Red Rust		Soil
1545137	C		Flat	Chocolate Brov	Mixed Conifero	Sphagnum Mo:	Damp	Good	Silt	Quartz Chips	Dull Red Rust	Sandy	Soil
1545138	C		Flat	Chocolate Brov	Black Spruce	Sphagnum Mo:	Damp	Good	Sand	Rusty Rock Ch	Rocky Terrain	Small rocky sai	Soil
1545139	C		Flat	Chocolate Brov	Poplar	Thin Moss Cov	Damp	Good	Sand	Quartz Chips	Dull Red Rust		Soil
1545140	C		Flat	Chocolate Brov	Poplar	Sphagnum Mo:	Damp	Good	Sand	Dull Red Rust	Rusty Rock Chip		Soil
1545141	C		Flat	Chocolate Brov	Black Spruce	Needle Cover	Damp	Good	Silt	Sandy	Dull Red Rust		Soil
1545142	C		Subtle Slope	Reddish Brown	Black Spruce	Sphagnum Mo:	Damp	Good	Sand	Quartz Chips	Dull Red Rust		Soil
1545143	C		Subtle Slope	Grey	Black Spruce	Sphagnum Mo:	Damp	Good	Sand	Quartz Chips	Organic 10%		Soil
1545144	C		Flat	Bluish Grey	Alders	Sphagnum Mo:	Damp	Good	Sand	Dull Red Rust	Quartz Chips		Soil
1545145	C		Subtle Slope	Grey	Black Spruce	Reindeer Moss	Damp	Good	Sand	Quartz Chips	Rusty Rock Chip		Soil
1545146	C		Flat	Chocolate Brov	Alders	Sphagnum Mo:	Damp	Good	Sand	Quartz Chips	Dull Red Rust		Soil
1545147	C		Flat	Chocolate Brov	Black Spruce	Sphagnum Mo:	Damp	Good	Sand	Quartz Chips	Dull Red Rust		Soil
1546264	C		Subtle Slope	Light Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand				Soil
1546265	C		Subtle Slope	Light Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand				Soil
1546266	C		Subtle Slope	Light Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand				Soil
1546267	C		Subtle Slope	Light Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand				Soil
1546268	C		Subtle Slope	Light Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand				Soil
1546269	C		Subtle Slope	Light Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand				Soil
1546270	C		Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss	Damp	Good	Sand				Soil
1546271	C		Subtle Slope	Reddish Orang	Black Spruce	Reindeer Moss	Damp	Good	Sand				Soil
1546272	C		Subtle Slope	Light Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand				Soil
1546273	C		Subtle Slope	Light Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand				Soil

sample_id	shipment_id	client	job_number	file_created	received	mo_ppm	cu_ppm	pb_ppm	zn_ppm	ag_ppm	ni_ppm	co_ppm	mn_ppm	fe_pct	as_ppm	u_ppm
1545125	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.5	40.3	4.6	42	0.05	34.2	17.2	389	2.29	3.9	0.3
1545126	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.5	93.9	1.6	58	0.05	46.9	27.4	717	3.44	5.8	0.1
1545127	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.6	52.4	4.9	39	0.05	25	12.7	207	2.19	6.2	0.4
1545128	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.3	18.4	3.7	32	0.05	178.2	24.3	336	3.05	6.1	0.3
1545129	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1	39.2	5.5	31	0.05	32	16.5	178	2.44	8.1	0.3
1545130	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.7	30.9	5	34	0.05	64.8	13.9	225	2.68	7.9	0.2
1545131	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.1	19.7	7.8	48	0.05	28.4	14.3	243	3.11	9.7	0.3
1545132	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.2	34.6	1.1	15	0.05	65.8	12.3	125	1	1.7	0.2
1545133	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.6	15.1	6.1	33	0.05	29.3	10.3	205	2.56	20.9	0.2
1545134	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.2	7.1	1.9	10	0.05	20.8	6	110	1.09	4.3	0.1
1545135	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.8	27.2	4.9	48	0.1	34.9	15.6	619	3.79	161.5	0.2
1545136	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.2	34.7	0.8	17	0.05	142	20	225	1.88	2.7	0.05
1545137	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.3	28.7	2.4	33	0.05	284.9	23.1	363	2.56	6.4	0.2
1545138	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.7	34.6	4.6	71	0.1	79.2	25.5	1191	4.46	22	0.2
1545139	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.4	46.4	7.7	61	0.2	24.4	9.6	552	3.09	19.8	0.5
1545140	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.2	70.6	2.3	65	0.05	65.9	22.4	678	5.15	3.9	0.1
1545141	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.1	43	8.6	57	0.05	20.1	11	473	3.05	35.6	0.5
1545142	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.5	65.5	4.1	58	0.05	22.7	11.7	522	3.18	322.8	0.4
1545143	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.3	29.9	2.7	34	0.05	37.6	14.2	272	2.09	4.1	0.1
1545144	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.1	142.2	0.8	49	0.05	75.4	32.8	697	3.41	5.8	0.05
1545145	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.1	69.5	1.4	32	0.05	76.2	22.7	310	2.43	7.2	0.05
1545146	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.3	141.1	1	65	0.05	22.8	23.2	500	3.99	1.9	0.1
1545147	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.3	62.7	1	65	0.05	21	28	600	4.6	3	0.05
1546264	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	0.2	4.9	36.8	26	0.05	1.5	1.4	134	0.36	1.3	1.7
1546265	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	0.8	34.7	18.6	144	0.05	46.5	19.3	463	2.88	3.5	3.7
1546266	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.3	11.5	31.8	56	0.05	5.2	4	146	1.13	2.9	2.8
1546267	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	0.5	6.8	34.3	35	0.05	6.2	3.8	103	0.88	2.7	2
1546268	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	0.6	15.9	14.7	47	0.05	13.9	5.5	178	1.56	5.2	2
1546269	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	0.6	31.2	15.9	82	0.05	40.6	18.4	390	2.74	3	2
1546270	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.6	19.4	58	58	0.05	5	2.8	128	1.16	4.1	1.7
1546271	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.7	8	30.9	128	0.05	28	12.4	388	2.52	2.3	3.1
1546272	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.5	9.4	36.5	91	0.05	12.2	6.9	263	1.58	1.8	1.9
1546273	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.1	2.6	18.6	47	0.05	2.5	1.7	83	0.82	1.8	2

sample_id	au_ppb	th_ppm	sr_ppm	cd_ppm	sb_ppm	bi_ppm	v_ppm	ca_pct	p_pct	la_ppm	cr_ppm	mg_pct	ba_ppm	ti_pct	b_ppm	al_pct	na_pct	k_pct	w_ppm
1545125	1.3	0.3	7	0.1	0.2	0.1	54	0.15	0.051	5	80	1.21	68	0.049	2	1.53	0.004	0.02	0.05
1545126	0.25	0.3	7	0.05	0.1	0.05	79	0.27	0.085	2	99	2.08	42	0.093	1	2.03	0.003	0.02	0.05
1545127	0.8	1.8	8	0.05	0.3	0.05	51	0.15	0.026	6	54	0.8	76	0.099	0.5	1.61	0.005	0.02	0.05
1545128	1	1.5	5	0.05	0.3	0.05	70	0.1	0.017	5	455	2.46	71	0.08	0.5	2.54	0.003	0.02	0.05
1545129	0.25	1.5	13	0.05	0.6	0.1	54	0.26	0.038	7	53	0.85	104	0.117	1	1.78	0.005	0.03	0.1
1545130	0.25	1.4	8	0.05	0.5	0.05	80	0.12	0.015	6	167	1.71	70	0.057	0.5	2.49	0.005	0.02	0.1
1545131	0.25	1.8	12	0.1	0.6	0.3	75	0.22	0.038	8	53	0.91	115	0.159	1	2.11	0.004	0.04	0.05
1545132	0.25	0.6	6	0.05	0.2	0.05	20	0.17	0.005	3	129	1.3	26	0.11	0.5	1.23	0.003	0.005	0.05
1545133	0.25	1.5	11	0.05	0.4	0.1	76	0.27	0.011	7	58	1.06	103	0.088	0.5	1.83	0.004	0.03	0.1
1545134	0.25	0.7	5	0.05	0.3	0.05	26	0.14	0.007	4	27	0.66	92	0.004	1	1.33	0.003	0.05	0.05
1545135	1.9	1	11	0.1	2	0.1	107	0.27	0.033	6	87	1.32	124	0.095	0.5	2.24	0.004	0.05	0.05
1545136	0.7	0.2	8	0.05	0.3	0.05	44	0.3	0.011	0.5	347	3.07	64	0.048	0.5	2.14	0.002	0.02	0.05
1545137	1.3	1.1	5	0.05	0.6	0.05	56	0.1	0.01	5	487	2.08	77	0.068	0.5	2.16	0.003	0.02	0.05
1545138	0.25	0.7	9	0.05	0.4	0.1	123	0.16	0.073	5	149	2.21	140	0.066	0.5	2.55	0.004	0.04	0.05
1545139	6.6	4.4	11	0.05	0.7	0.2	56	0.16	0.035	16	30	0.63	139	0.031	1	2.1	0.005	0.05	0.1
1545140	1.3	0.7	4	0.05	0.2	0.05	178	0.1	0.031	6	162	3.24	68	0.022	0.5	3.7	0.003	0.005	0.05
1545141	3	3.4	13	0.05	0.8	0.2	54	0.19	0.034	14	29	0.5	184	0.031	1	1.92	0.007	0.07	0.1
1545142	32.8	2.7	9	0.05	2.1	0.05	61	0.08	0.02	19	38	0.86	182	0.01	0.5	1.94	0.003	0.05	0.05
1545143	0.25	0.5	7	0.05	0.2	0.05	44	0.22	0.036	3	83	1.12	33	0.111	0.5	1.36	0.003	0.02	0.05
1545144	10.9	0.4	7	0.05	0.4	0.05	72	0.33	0.051	2	173	2.24	37	0.071	0.5	2.09	0.002	0.01	0.05
1545145	1.1	0.6	12	0.05	0.4	0.05	45	0.37	0.042	2	161	2.16	58	0.066	0.5	1.94	0.003	0.005	0.05
1545146	2.5	0.6	21	0.05	0.1	0.05	110	0.42	0.072	2	22	1.84	329	0.114	0.5	2.16	0.003	0.22	0.05
1545147	1.3	0.4	14	0.05	0.7	0.05	109	0.32	0.066	2	18	1.88	371	0.097	0.5	2.48	0.002	0.34	0.05
1546264	2	21.9	11	0.05	0.2	0.4	1	0.14	0.017	35	2	0.48	64	0.025	2	0.49	0.002	0.05	0.1
1546265	0.25	10.4	25	0.1	0.6	0.1	37	0.57	0.056	48	85	2.54	403	0.194	1	2.1	0.005	0.78	0.1
1546266	0.25	20.1	16	0.05	0.3	0.4	16	0.19	0.019	40	12	0.71	145	0.061	0.5	0.87	0.003	0.1	0.2
1546267	0.25	19.6	9	0.05	0.3	0.6	15	0.09	0.009	65	10	0.42	166	0.052	0.5	0.76	0.003	0.07	0.05
1546268	1.9	11.2	15	0.05	0.5	0.2	27	0.21	0.03	28	21	0.66	190	0.065	2	1.08	0.006	0.07	0.1
1546269	1.2	8.1	24	0.05	0.4	0.3	42	0.56	0.046	23	63	2.77	391	0.152	2	2.11	0.007	0.65	0.05
1546270	1.6	10.6	3	0.1	0.8	1.1	13	0.02	0.012	20	8	0.1	71	0.013	2	0.71	0.003	0.07	0.1
1546271	0.25	11.5	13	0.1	0.3	0.3	39	0.15	0.012	32	56	1.98	289	0.131	0.5	1.93	0.007	0.68	0.05
1546272	0.25	11.4	10	0.1	0.3	0.2	23	0.15	0.022	32	24	0.99	205	0.075	0.5	1.28	0.004	0.32	0.05
1546273	1.4	17.8	8	0.1	0.2	0.4	5	0.05	0.012	36	5	0.35	63	0.014	1	0.69	0.003	0.09	0.05

sample_id	hg_ppm	sc_ppm	tl_ppm	s_pct	ga_ppm	se_ppm	te_ppm
1545125	0.005	2.7	0.05	0.025	4	0.25	0.1
1545126	0.005	4	0.05	0.025	6	0.25	0.1
1545127	0.01	2.7	0.05	0.025	4	0.25	0.1
1545128	0.005	5.3	0.05	0.025	6	0.25	0.1
1545129	0.005	2.8	0.05	0.025	5	0.25	0.1
1545130	0.01	6.3	0.05	0.025	7	0.25	0.1
1545131	0.03	2.6	0.2	0.025	6	0.25	0.1
1545132	0.005	2.3	0.05	0.025	2	0.25	0.1
1545133	0.005	3.5	0.1	0.025	6	0.25	0.1
1545134	0.005	2.1	0.1	0.025	3	0.25	0.1
1545135	0.03	5.6	0.1	0.025	7	0.25	0.1
1545136	0.005	8.3	0.05	0.025	4	0.25	0.1
1545137	0.005	4.2	0.05	0.025	5	0.25	0.1
1545138	0.02	7.3	0.05	0.025	11	0.25	0.1
1545139	0.02	4.1	0.05	0.025	6	0.25	0.1
1545140	0.005	20.9	0.05	0.025	12	0.25	0.1
1545141	0.03	3.6	0.1	0.025	5	0.25	0.1
1545142	0.02	6	0.05	0.025	7	0.25	0.1
1545143	0.005	1.4	0.05	0.025	4	0.25	0.1
1545144	0.005	6	0.05	0.025	5	0.25	0.1
1545145	0.005	4.4	0.05	0.025	3	0.25	0.1
1545146	0.02	3.8	0.1	0.025	6	0.25	0.1
1545147	0.005	4	0.1	0.025	6	0.25	0.1
1546264	0.005	1.1	0.1	0.025	1	0.25	0.1
1546265	0.005	4.9	0.8	0.1	6	0.25	0.1
1546266	0.005	2.5	0.2	0.1	2	0.25	0.1
1546267	0.005	1.9	0.1	0.1	2	0.25	0.1
1546268	0.01	3.3	0.2	0.025	3	0.25	0.1
1546269	0.01	6.5	0.6	0.025	6	0.25	0.1
1546270	0.005	1.3	0.05	0.025	3	0.25	0.1
1546271	0.005	6.1	0.6	0.07	10	0.25	0.1
1546272	0.005	3.1	0.3	0.13	4	0.25	0.1
1546273	0.005	1	0.1	0.025	2	0.25	0.1

sample_id	sample_project	sample_technique	sample_date	utm_zone	utm_easting	utm_northing	longitude_wgs84	latitude_wgs84	duplicate_of_id	elevation_m	sample_method	sample_depth
1546274	HUN	CG01	#####	07N	597688	7090711	-139.0075418	63.92974108		822	Auger	60
1546275	HUN	CG01	#####	07N	597688	7090711	-139.0075418	63.92974108	1546274	822	Auger	60
1546355	HUN	PL01	#####	07N	597524	7090204	-139.0112066	63.92523987		883	Auger	40
1546356	HUN	PL01	#####	07N	597577	7090198	-139.0101304	63.92517123		881	Auger	50
1546357	HUN	PL01	#####	07N	597630	7090200	-139.0090491	63.92517433		875	Auger	50
1546358	HUN	PL01	#####	07N	597680	7090196	-139.0080328	63.92512445		870	Auger	60
1546359	HUN	PL01	#####	07N	597734	7090197	-139.0069317	63.92511828		865	Auger	110
1546360	HUN	PL01	#####	07N	597784	7090193	-139.0059154	63.92506839		860	Auger	40
1546361	HUN	PL01	#####	07N	597833	7090190	-139.0049188	63.92502773		853	Auger	50
1546362	HUN	PL01	#####	07N	597884	7090189	-139.0038801	63.92500445		844	Auger	50
1546363	HUN	PL01	#####	07N	597935	7090192	-139.002839	63.92501703		836	Auger	60
1546364	HUN	PL01	#####	07N	597987	7090181	-139.0017863	63.92490377		829	Auger	60
1546365	HUN	PL01	#####	07N	598036	7090180	-139.0007885	63.92488102		820	Auger	50
1546366	HUN	PL01	#####	07N	598086	7090176	-138.9997721	63.92483108		812	Auger	50
1546367	HUN	PL01	#####	07N	598136	7090172	-138.9987558	63.92478114		806	Auger	70
1546368	HUN	PL01	#####	07N	598188	7090166	-138.9977	63.92471268		799	Auger	60
1546369	HUN	PL01	#####	07N	598239	7090174	-138.9966556	63.92477007		790	Auger	50
1546370	HUN	PL01	#####	07N	598289	7090172	-138.9956381	63.92473804		784	Auger	40
1546371	HUN	PL01	#####	07N	598344	7090167	-138.9945205	63.92467768		777	Auger	60
1546372	HUN	PL01	#####	07N	598394	7090164	-138.9935035	63.92463667		770	Auger	40
1546373	HUN	PL01	#####	07N	598444	7090166	-138.9924834	63.92464049		761	Auger	40
1546374	HUN	PL01	#####	07N	598905	7090415	-138.9829289	63.92674318		617	Auger	80
1546375	HUN	PL01	#####	07N	598905	7090415	-138.9829289	63.92674318	1546374	617	Auger	80
1546376	HUN	PL01	#####	07N	598494	7090174	-138.9914594	63.92469812		750	Auger	40
1546377	HUN	PL01	#####	07N	598538	7090199	-138.9905467	63.9249099		736	Auger	90
1546378	HUN	PL01	#####	07N	598583	7090225	-138.989613	63.92513036		723	Auger	80
1546378	HUN	PL01	#####	07N	598583	7090225	-138.989613	63.92513036		723	Auger	80
1546379	HUN	PL01	#####	07N	598625	7090253	-138.9887392	63.9253696		706	Auger	50
1546380	HUN	PL01	#####	07N	598672	7090278	-138.9877653	63.92558052		690	Auger	50
1546381	HUN	PL01	#####	07N	598717	7090310	-138.9868277	63.92585477		673	Auger	50
1546382	HUN	PL01	#####	07N	598766	7090331	-138.9858157	63.92602923		657	Auger	60
1546383	HUN	PL01	#####	07N	598810	7090360	-138.9849004	63.92627685		643	Auger	70
1546384	HUN	PL01	#####	07N	598858	7090386	-138.9839054	63.92649643		630	Auger	50

sample_id	sampling_date	site_slope	soil_colour	site_vegetation	site_ground_cover	sample_moisture	sample_quality	sample_texture	sample_note	sample_note_additional	remarks
1546274	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss Damp		Good	Sand			Soil
1546275	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss Damp		Good	Sand			Soil
1546355	C	Flat	Light Brown	Black Spruce	Reindeer Moss Dry		Good	Gravel	Bright Orange Rust		Soil
1546356	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss Dry		Good	Gravel			Soil
1546357	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss Dry		Excellent	Gravel			Soil
1546358	C	Flat	Dark Olivine Grey	Black Spruce	Reindeer Moss Dry		Excellent	Gravel			Soil
1546359	C	Subtle Slope	Greyish Green	Black Spruce	Reindeer Moss Dry		Excellent	Gravel	Bright Orange Rust		Soil
1546360	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss Dry		Good	Gravel	Bright Orange Rust		Soil
1546361	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss Dry		Good	Sand			Soil
1546362	C	Subtle Slope	Reddish Yellow	Black Spruce	Sphagnum Moss Dry		Good	Gravel	Bright Orange Rust		Soil
1546363	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss Dry		Good	Sand	Bright Orange Rust		Soil
1546364	C	Flat	Light Brown	Black Spruce	Reindeer Moss Dry		Excellent	Gravel			Soil
1546365	C	Flat	Grey	Black Spruce	Reindeer Moss Dry		Excellent	Gravel			Soil
1546366	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss Dry		Good	Gravel	Dull Red Rust		Soil
1546367	C	Flat	Grey	Black Spruce	Sphagnum Moss Dry		Good	Clay			Soil
1546368	C	Flat	Reddish Yellow	Black Spruce	Reindeer Moss Dry		Excellent	Gravel	Dull Red Rust		Soil
1546369	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss Dry		Good	Gravel			Soil
1546370	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss Dry		Good	Gravel			Soil
1546371	C	Flat	Pale Greenish	Black Spruce	Reindeer Moss Dry		Good	Gravel			Soil
1546372	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss Dry		Good	Gravel			Soil
1546373	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss Dry		Good	Gravel	Bright Orange Rust		Soil
1546374	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss Dry		Good	Clay	Bright Orange Rust		Soil
1546375	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss Dry		Good	Clay	Bright Orange Rust		Soil
1546376	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss Dry		Good	Gravel			Soil
1546377	C	Subtle Slope	Light Brown	Birch Forest	Thin Moss Cover Dry		Excellent	Gravel			Soil
1546378	C	Pronounced Slope	Chocolate Brown	Birch Forest	Thin Moss Cover Dry		Excellent	Sand	Bright Orange Rust		REP
1546378	C	Pronounced Slope	Chocolate Brown	Birch Forest	Thin Moss Cover Dry		Excellent	Sand	Bright Orange Rust		Soil
1546379	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss Dry		Good	Sand			Soil
1546380	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss Dry		Excellent	Sand	Bright Orange Rust		Soil
1546381	C	Flat	Light Brown	Poplar	Leaf Cover Dry		Excellent	Sand	Bright Orange Rust		Soil
1546382	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss Dry		Good	Sand	Bright Orange Rust		Soil
1546383	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss Dry		Excellent	Clay	Bright Orange Rust		Soil
1546384	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss Damp		Good	Clay	Bright Orange Rust		Soil

sample_id	shipment_id	client	job_number	file_created	received	mo_ppm	cu_ppm	pb_ppm	zn_ppm	ag_ppm	ni_ppm	co_ppm	mn_ppm	fe_pct	as_ppm	u_ppm
1546274	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	0.9	17.3	19.6	83	0.05	22.8	10.1	278	2.12	3.9	3.2
1546275	HUN-20170814	White Gold Coi	WHI17000609	8/29/2017	8/16/2017	1.2	17.4	18	71	0.05	22.4	8.8	262	2.16	5	2.8
1546355	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.3	7.2	12.7	46	0.05	9.9	4.9	184	1.25	2.9	2.5
1546356	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.7	6.8	19.6	33	0.05	5.4	2.8	147	0.8	2.3	2.8
1546357	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.5	13.2	4.8	52	0.05	36.9	14.3	311	2.3	2.4	2.4
1546358	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.4	28.6	6.1	50	0.05	62	18.9	365	2.46	2.3	2.1
1546359	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.4	31.6	2.7	65	0.05	51.5	22.5	529	3.36	1.1	2.8
1546360	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1	31	42	56	0.05	21.1	10.7	262	2.61	7.5	2.3
1546361	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.8	13.9	38.5	99	0.05	15.3	9.6	236	1.7	2.4	4
1546362	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.4	25.9	154	327	0.05	8.4	5.2	589	1.68	3	3.6
1546363	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.4	22.7	90.5	211	0.05	6	6.6	348	1.43	2.1	1.8
1546364	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.2	29.7	37.4	102	0.05	23.4	12.8	331	2.3	2.9	1.8
1546365	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.2	66.3	408.3	482	0.05	18.8	13.6	668	2.18	2.3	1
1546366	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.3	36.3	33.4	118	0.05	33.8	19.6	675	3.26	3.6	0.6
1546367	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.2	18.7	25.1	76	0.05	36.7	21.1	394	2.43	3.4	0.6
1546368	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.3	15.7	48.1	99	0.05	16	11.2	283	1.8	2.9	1.6
1546369	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.8	14.3	76.4	113	0.1	1.8	4.7	361	5.11	6.9	2
1546370	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.3	20.7	57.5	122	0.05	18	9.2	410	1.85	2.7	1.9
1546371	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.4	23.9	259.7	316	0.05	51.5	26	1074	2.77	1.2	0.3
1546372	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.4	19.7	234.9	204	0.7	35.8	9.9	506	3.39	5.5	1.5
1546373	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.6	31.2	173.2	226	0.05	24.9	17.3	638	3.99	2.6	0.8
1546374	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.9	12.9	38.1	57	0.05	8.2	4.1	160	1.89	5.9	1.2
1546375	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.9	13.4	38.3	54	0.05	8.8	4.2	163	1.95	5.6	1.3
1546376	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.3	20	12.6	77	0.2	15.6	23.4	487	3.02	8.3	0.2
1546377	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	2.1	19.3	72.8	130	0.2	16.6	10.9	338	2.27	6.5	1.1
1546378	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	3.1	13.9	192.2	192	0.2	5.8	4.4	325	1.68	3.7	1.7
1546378	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	3.2	13.6	196.9	193	0.2	6	4.3	327	1.63	3.6	1.8
1546379	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	2.2	12.4	170.1	103	0.2	6.5	3.7	136	1.69	3.7	1.6
1546380	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	3.8	9.3	217.4	109	0.3	5.6	3.6	166	1.84	3.2	1.6
1546381	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.7	7.2	175.1	120	0.2	6.1	3.4	158	1.49	2.3	1.7
1546382	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	3.4	14.3	107.4	66	0.3	4.5	2.4	119	1.48	3.2	1.5
1546383	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.9	15.5	63.5	63	0.2	8.4	3.8	161	1.71	3.8	2.3
1546384	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	1.6	15.6	43.4	54	0.1	9.6	4.5	157	1.92	5.4	1.8

sample_id	au_ppb	th_ppm	sr_ppm	cd_ppm	sb_ppm	bi_ppm	v_ppm	ca_pct	p_pct	la_ppm	cr_ppm	mg_pct	ba_ppm	ti_pct	b_ppm	al_pct	na_pct	k_pct	w_ppm
1546274	2.2	11.5	23	0.1	0.4	0.2	33	0.29	0.021	30	42	1.34	321	0.094	1	1.45	0.007	0.23	0.1
1546275	2.4	10.6	19	0.1	0.4	0.2	40	0.24	0.025	32	40	1.11	260	0.089	0.5	1.54	0.009	0.15	0.1
1546355	0.8	16.2	11	0.1	0.4	0.1	19	0.1	0.02	21	17	0.44	63	0.049	0.5	1.02	0.004	0.09	0.05
1546356	0.25	16.1	10	0.05	0.4	0.2	13	0.14	0.025	28	12	0.42	68	0.036	0.5	0.63	0.004	0.09	0.1
1546357	0.25	11.7	16	0.05	0.3	0.05	40	0.39	0.071	20	105	1.86	185	0.098	0.5	1.63	0.004	0.43	0.05
1546358	0.25	5	15	0.05	0.3	0.05	37	0.4	0.079	11	110	1.77	191	0.093	0.5	1.66	0.004	0.21	0.05
1546359	0.25	1.4	22	0.05	0.3	0.05	61	0.63	0.137	8	124	2.39	401	0.09	0.5	2.16	0.007	0.85	0.05
1546360	3.3	13.8	11	0.1	1.2	0.2	51	0.11	0.02	33	28	0.49	188	0.05	1	1.84	0.006	0.07	0.1
1546361	0.25	12.7	8	0.2	0.7	0.2	32	0.32	0.025	11	47	0.7	52	0.087	0.5	1.35	0.002	0.09	0.05
1546362	0.25	9.5	12	0.6	0.7	0.1	29	0.18	0.03	20	16	0.39	79	0.07	0.5	1.05	0.003	0.09	0.1
1546363	0.25	8.5	12	0.7	0.4	0.05	20	0.19	0.02	12	13	0.59	110	0.08	0.5	0.83	0.003	0.28	0.1
1546364	0.25	17.4	21	0.2	0.6	0.2	34	0.47	0.069	42	29	1.36	126	0.168	0.5	1.58	0.004	0.23	0.2
1546365	0.25	9.5	27	2.2	1	0.1	36	0.6	0.095	16	40	1.34	63	0.086	2	1.36	0.004	0.06	0.2
1546366	0.25	5.7	20	0.4	0.8	0.05	36	0.64	0.107	13	56	1.99	130	0.082	2	1.93	0.004	0.16	0.05
1546367	1	5.6	26	0.1	0.4	0.05	45	0.75	0.069	10	85	1.8	79	0.144	1	1.53	0.005	0.13	0.2
1546368	0.25	14	18	0.5	0.5	0.3	38	0.33	0.038	18	28	1.06	73	0.143	0.5	1.36	0.004	0.09	0.4
1546369	0.6	4.9	23	0.2	0.3	0.5	35	0.54	0.175	15	2	0.63	284	0.091	0.5	0.88	0.005	0.39	0.2
1546370	0.25	13.8	19	0.6	0.6	0.4	37	0.4	0.047	23	34	1.19	93	0.139	1	1.41	0.003	0.14	0.4
1546371	1.1	0.7	20	1.2	1	0.05	66	0.66	0.133	3	125	1.75	203	0.121	0.5	1.6	0.005	0.18	0.1
1546372	0.6	8.5	10	0.6	0.5	0.4	62	0.13	0.03	21	76	1.95	95	0.078	0.5	2.5	0.004	0.09	0.05
1546373	0.25	2.8	11	0.5	0.5	0.5	92	0.25	0.035	8	65	2.51	167	0.236	0.5	2.62	0.004	0.08	0.05
1546374	0.25	9.8	9	0.05	0.5	0.4	31	0.09	0.021	23	16	0.37	275	0.03	0.5	1.1	0.005	0.06	0.2
1546375	2.4	10	10	0.2	0.5	0.3	31	0.1	0.02	23	17	0.37	288	0.033	0.5	1.05	0.006	0.06	0.2
1546376	0.5	0.9	12	0.5	0.5	0.05	65	0.26	0.092	4	56	1.29	97	0.094	0.5	1.74	0.005	0.04	0.1
1546377	0.6	9.7	16	0.3	1.1	0.5	40	0.27	0.045	22	46	0.8	195	0.077	1	1.32	0.007	0.09	0.2
1546378	0.9	19.3	15	0.7	1.5	1	14	0.13	0.031	46	13	0.32	193	0.015	0.5	0.65	0.004	0.09	0.2
1546378	0.9	19.2	15	0.6	1.5	1	14	0.13	0.031	46	13	0.33	196	0.015	0.5	0.66	0.004	0.1	0.2
1546379	0.6	15.4	10	0.2	0.7	0.4	19	0.07	0.021	35	13	0.3	274	0.021	0.5	0.77	0.006	0.09	0.1
1546380	0.6	16	10	0.1	0.6	0.7	16	0.06	0.017	29	12	0.32	414	0.018	0.5	0.69	0.007	0.11	0.1
1546381	0.25	14.8	10	0.4	0.6	0.5	19	0.1	0.019	43	12	0.47	315	0.026	0.5	0.87	0.004	0.07	0.2
1546382	1.2	13	7	0.05	0.4	0.8	16	0.06	0.018	22	10	0.37	291	0.021	0.5	0.78	0.005	0.07	0.2
1546383	2.5	13.6	13	0.05	0.5	0.4	26	0.11	0.023	35	17	0.38	456	0.036	0.5	0.93	0.006	0.07	0.1
1546384	1.4	9.8	13	0.1	0.4	0.6	34	0.13	0.027	28	19	0.4	413	0.037	0.5	1.1	0.006	0.06	0.2

sample_id	hg_ppm	sc_ppm	tl_ppm	s_pct	ga_ppm	se_ppm	te_ppm
1546274	0.005	4.9	0.3	0.025	5	0.25	0.1
1546275	0.01	4.7	0.3	0.11	5	0.25	0.1
1546355	0.005	2	0.1	0.025	3	0.25	0.1
1546356	0.005	1.3	0.2	0.025	2	0.25	0.1
1546357	0.005	3.1	0.4	0.025	5	0.25	0.1
1546358	0.005	3.8	0.2	0.025	4	0.25	0.1
1546359	0.005	5	0.5	0.025	7	0.25	0.1
1546360	0.03	5.5	0.2	0.025	5	0.25	0.1
1546361	0.005	3.7	0.2	0.025	4	0.25	0.1
1546362	0.02	2.4	0.2	0.025	4	0.25	0.1
1546363	0.005	2.6	0.3	0.025	3	0.25	0.1
1546364	0.005	5.4	0.4	0.025	4	0.25	0.1
1546365	0.005	4.3	0.2	0.025	4	0.25	0.1
1546366	0.005	4.2	0.4	0.025	6	0.25	0.1
1546367	0.005	4.7	0.3	0.025	4	0.25	0.1
1546368	0.005	2.9	0.3	0.025	4	0.25	0.1
1546369	0.005	5.1	0.3	0.08	6	0.25	0.1
1546370	0.005	3.6	0.4	0.025	4	0.25	0.1
1546371	0.005	4.5	0.2	0.025	5	0.25	0.1
1546372	0.01	4.4	0.2	0.025	9	0.6	0.1
1546373	0.005	3.9	0.1	0.025	8	0.25	0.1
1546374	0.01	2.1	0.05	0.025	3	0.25	0.1
1546375	0.005	2.2	0.05	0.025	3	0.25	0.1
1546376	0.01	2.8	0.05	0.025	5	0.25	0.1
1546377	0.02	3.5	0.1	0.025	4	0.25	0.1
1546378	0.005	2	0.1	0.025	2	0.6	0.1
1546378	0.01	2	0.05	0.025	3	0.25	0.1
1546379	0.005	1.8	0.05	0.025	2	0.6	0.1
1546380	0.005	1.8	0.05	0.08	3	0.25	0.1
1546381	0.02	1.7	0.05	0.025	3	0.25	0.1
1546382	0.005	1.2	0.05	0.025	3	0.25	0.1
1546383	0.02	2.6	0.05	0.025	3	0.25	0.1
1546384	0.01	2.5	0.05	0.025	3	0.25	0.1

sample_id	sample_project	sample_technique	sample_date	utm_zone	utm_easting	utm_northing	longitude_wgs84	latitude_wgs84	duplicate_of_id	elevation_m	sample_method	sample_depth
1546401	HUN	PL01	#####	07N	601295	7091250	-138.9336735	63.93354542		858	Auger	70
1546402	HUN	PL01	#####	07N	601323	7091289	-138.933077	63.93388704		856	Auger	40
1546403	HUN	PL01	#####	07N	601359	7091329	-138.9323167	63.93423531		849	Auger	60
1546404	HUN	PL01	#####	07N	601389	7091372	-138.9316768	63.93461221		844	Auger	40
1546405	HUN	PL01	#####	07N	601426	7091410	-138.9308975	63.93494224		838	Auger	50
1546406	HUN	PL01	#####	07N	601456	7091452	-138.9302581	63.93531017		833	Auger	60
1546407	HUN	PL01	#####	07N	601484	7091495	-138.9296589	63.93568765		826	Auger	40
1546408	HUN	PL01	#####	07N	601515	7091534	-138.9290012	63.93602839		817	Auger	50
1546409	HUN	PL01	#####	07N	601550	7091576	-138.9282599	63.93639485		805	Auger	50
1546410	HUN	PL01	#####	07N	601583	7091614	-138.927562	63.93672603		800	Auger	90
1546411	HUN	PL01	#####	07N	601616	7091655	-138.9268621	63.9370841		797	Auger	30
1546412	HUN	PL01	#####	07N	601640	7091698	-138.9263443	63.93746274		792	Auger	40
1546413	HUN	PL01	#####	07N	601677	7091732	-138.9255675	63.93775686		790	Auger	80
1546414	HUN	PL01	#####	07N	601701	7091779	-138.9250471	63.93817136		793	Auger	50
1546414	HUN	PL01	#####	07N	601701	7091779	-138.9250471	63.93817136		793	Auger	50
1546415	HUN	PL01	#####	07N	601734	7091816	-138.9243497	63.93849355		797	Auger	40
1546416	HUN	PL01	#####	07N	601765	7091856	-138.9236912	63.93884323		806	Auger	50
1546417	HUN	PL01	#####	07N	601795	7091900	-138.9230504	63.93922907		816	Auger	40
1546418	HUN	PL01	#####	07N	601830	7091940	-138.9223102	63.93957757		823	Auger	50
1546419	HUN	PL01	#####	07N	601858	7091985	-138.9217095	63.93997295		822	Auger	60
1546420	HUN	PL01	#####	07N	601894	7092025	-138.9209489	63.94032115		818	Auger	60
1546421	HUN	PL01	#####	07N	602157	7092369	-138.9153576	63.94332918		741	Auger	50
1546422	HUN	PL01	#####	07N	602124	7092328	-138.9160578	63.94297116		754	Auger	60
1546423	HUN	PL01	#####	07N	602092	7092286	-138.9167383	63.94260388		767	Auger	80
1546424	HUN	PL01	#####	07N	601938	7092073	-138.92002	63.94073875		810	Auger	40
1546425	HUN	PL01	#####	07N	601938	7092073	-138.92002	63.94073875	1546424	810	Auger	40
1546426	HUN	PL01	#####	07N	602065	7092241	-138.9173188	63.94220822		777	Auger	50
1546427	HUN	PL01	#####	07N	602031	7092199	-138.91804	63.94184152		788	Auger	50
1546428	HUN	PL01	#####	07N	601995	7092157	-138.9188019	63.9414754		798	Auger	50
1546429	HUN	PL01	#####	07N	601966	7092115	-138.9194211	63.94110722		805	Auger	50
1546476	HUN	NK01	#####	07N	597048	7088464	-139.0220065	63.90976704		926	Auger	60
1546477	HUN	NK01	#####	07N	597099	7088452	-139.0209754	63.90964522		918	Auger	70
1546478	HUN	NK01	#####	07N	597143	7088439	-139.0200875	63.90951638		912	Auger	70

sample_id	sampld_hori:	site_slope	soil_colour	site_vegetatio	site_ground_c	sample_moist	sample_qualit	sample_textur	sample_note_	sample_note_additional_	ren	type
1546401	C	Flat	Dark Blue	Blac White Spruce	Sphagnum Mo:	Dry	Excellent	Gravel				Soil
1546402	C	Subtle Slope	Chocolate	Brov White Spruce	Reindeer Moss	Dry	Excellent	Sand	Bright Orange I	Dull Red Rust		Soil
1546403	C	Flat	Grey	Black Spruce	Reindeer Moss	Damp	Good	Clay				Soil
1546404	B	Subtle Slope	Dark Brown	Black Spruce	Reindeer Moss	Damp	Good	Clay	Frozen			Soil
1546405	C	Flat	Chocolate	Brov Black Spruce	Reindeer Moss	Dry	Good	Gravel				Soil
1546406	C	Subtle Slope	Chocolate	Brov Black Spruce	Reindeer Moss	Dry	Excellent	Gravel	Dull Red Rust			Soil
1546407	C	Flat	Chocolate	Brov Black Spruce	Reindeer Moss	Dry	Good	Gravel	Dull Red Rust			Soil
1546408	C	Subtle Slope	Chocolate	Brov Black Spruce	Reindeer Moss	Dry	Good	Gravel				Soil
1546409	C	Flat	Grey	Black Spruce	Reindeer Moss	Dry	Good	Gravel	Bright Orange Rust			Soil
1546410	C	Flat	Chocolate	Brov Black Spruce	Reindeer Moss	Dry	Good	Clay	Bright Orange Rust			Soil
1546411	C	Subtle Slope	Chocolate	Brov Black Spruce	Reindeer Moss	Dry	Good	Silt				Soil
1546412	C	Subtle Slope	Chocolate	Brov Black Spruce	Reindeer Moss	Dry	Good	Gravel	Bright Orange Rust			Soil
1546413	C	Flat	Chocolate	Brov Black Spruce	Reindeer Moss	Damp	Good	Clay	Bright Orange I	Partially Frozen		Soil
1546414	C	Flat	Chocolate	Brov White Spruce	Reindeer Moss	Dry	Good	Gravel				REP
1546414	C	Flat	Chocolate	Brov White Spruce	Reindeer Moss	Dry	Good	Gravel				Soil
1546415	C	Subtle Slope	Chocolate	Brov Poplar	Leaf Cover	Dry	Good	Gravel				Soil
1546416	C	Subtle Slope	Light Brown	Poplar	Grass Cover	Dry	Good	Silt				Soil
1546417	C	Subtle Slope	Light Brown	Poplar	Leaf Cover	Dry	Good	Silt				Soil
1546418	C	Flat	Chocolate	Brov Poplar	Thin Moss Cov	Dry	Good	Gravel				Soil
1546419	C	Flat	Chocolate	Brov Black Spruce	Reindeer Moss	Dry	Good	Gravel				Soil
1546420	C	Subtle Slope	Light Bluish Gr	Black Spruce	Reindeer Moss	Dry	Excellent	Gravel	Bright Orange Rust			Soil
1546421	C	Subtle Slope	Bluish Grey	Black Spruce	Reindeer Moss	Dry	Excellent	Gravel				Soil
1546422	C	Subtle Slope	Chocolate	Brov Black Spruce	Reindeer Moss	Dry	Good	Gravel				Soil
1546423	C	Flat	Chocolate	Brov Black Spruce	Reindeer Moss	Dry	Excellent	Gravel	Bright Orange Rust			Soil
1546424	C	Subtle Slope	Chocolate	Brov Black Spruce	Reindeer Moss	Dry	Good	Gravel				Soil
1546425	C	Subtle Slope	Chocolate	Brov Black Spruce	Reindeer Moss	Dry	Good	Gravel				Soil
1546426	C	Subtle Slope	Chocolate	Brov Black Spruce	Reindeer Moss	Dry	Good	Gravel				Soil
1546427	C	Subtle Slope	Chocolate	Brov Black Spruce	Reindeer Moss	Dry	Good	Gravel				Soil
1546428	C	Flat	Chocolate	Brov Black Spruce	Reindeer Moss	Dry	Good	Gravel				Soil
1546429	C	Flat	Chocolate	Brov Black Spruce	Reindeer Moss	Dry	Good	Gravel				Soil
1546476	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss	Damp	Excellent	Silt				Soil
1546477	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Silt				Soil
1546478	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss	Damp	Excellent	Silt				Soil

sample_id	shipment_id	client	job_number	file_created	received	mo_ppm	cu_ppm	pb_ppm	zn_ppm	ag_ppm	ni_ppm	co_ppm	mn_ppm	fe_pct	as_ppm	u_ppm
1546401	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.2	82.6	1.6	66	0.05	12.9	15.7	1028	3.42	2.5	0.1
1546402	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.3	136.3	1.4	56	0.05	13.7	17.2	598	3.24	2.1	0.1
1546403	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.5	99.5	4.8	40	0.05	55.2	17.4	416	2.66	3.9	0.1
1546404	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.5	52.5	5.9	39	0.1	23.4	12.9	966	2.31	5	0.7
1546405	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.1	55	3.4	60	0.05	33.1	10.6	580	2.9	1.4	0.3
1546406	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.5	216.5	2.7	56	0.05	16.6	18	744	4.2	3.1	0.3
1546407	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.4	124	3	57	0.05	11.9	15.2	544	3.79	3.2	0.5
1546408	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.2	185.8	2	90	0.05	15	23.1	955	5.48	2.1	0.3
1546409	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.2	144.7	2	58	0.05	17.9	18.7	475	3.7	2	0.3
1546410	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.5	65.8	3.7	38	0.05	435.6	49.2	848	4.49	3.3	0.4
1546411	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.7	12.9	8.6	40	0.05	58.7	10.6	183	2.51	9.2	0.3
1546412	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.2	50	2.6	18	0.05	61.7	12.4	178	1.4	3.2	0.2
1546413	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.3	91.6	4	49	0.1	25.5	18.7	952	4.15	2.3	0.7
1546414	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.3	86.2	2.2	76	0.05	34.3	21	1270	4.8	2.3	0.2
1546414	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.3	87.4	2.3	78	0.05	34.2	21	1286	4.85	2.3	0.2
1546415	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.6	133.1	3.4	69	0.05	14.8	17.9	527	4.51	4.3	0.2
1546416	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.4	54.7	4.4	40	0.05	24.8	13.5	404	3.51	4.6	0.3
1546417	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.3	127.7	4.7	59	0.05	19.4	17.3	569	4.32	4.1	0.7
1546418	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.2	108.9	1.8	42	0.05	18.8	16	331	2.98	2.6	0.2
1546419	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.2	88.7	1.3	44	0.05	8.7	14.4	493	3.04	2.4	0.05
1546420	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.05	113.3	0.2	34	0.05	10.5	12.6	384	2.12	0.6	0.05
1546421	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.05	107.6	0.4	41	0.05	10.8	15.4	346	2.34	0.7	0.1
1546422	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.3	94.7	3.1	57	0.05	10.3	19.5	579	3.44	2.7	0.2
1546423	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.05	77.6	2.8	66	0.05	20.8	14.4	638	3.45	0.8	0.2
1546424	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.1	111.3	0.5	51	0.05	15.4	17.4	757	3.28	1.4	0.1
1546425	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.2	133.7	1.2	50	0.05	15.1	17.3	709	3.45	2.2	0.1
1546426	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.5	75.3	5.2	71	0.05	13	24.6	647	6.06	3.9	0.1
1546427	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.1	181.4	0.9	80	0.05	17.6	15.5	636	4.09	1.8	0.3
1546428	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.2	93.9	2.6	67	0.05	23.7	14.7	704	4.21	3.6	0.5
1546429	HUN-20170817	White Gold Coi	WHI17000653	9/1/2017	8/22/2017	0.1	83.2	1.1	74	0.05	38.8	29.9	1145	5.7	1.9	0.3
1546476	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	6.1	4.1	4.6	35	0.05	3.8	2.4	148	2.09	3	2.1
1546477	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	0.8	5.2	10.6	29	0.05	4.9	2.9	104	0.96	2.7	1.3
1546478	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	2.9	3.9	5.8	24	0.05	2.9	2.2	133	1.55	3.5	1.8

sample_id	au_ppb	th_ppm	sr_ppm	cd_ppm	sb_ppm	bi_ppm	v_ppm	ca_pct	p_pct	la_ppm	cr_ppm	mg_pct	ba_ppm	ti_pct	b_ppm	al_pct	na_pct	k_pct	w_ppm
1546401	2.2	1.2	7	0.05	0.1	0.05	84	0.21	0.08	6	11	1.5	57	0.017	0.5	1.84	0.003	0.01	0.05
1546402	4.4	0.5	11	0.05	0.1	0.05	86	0.21	0.066	2	12	0.9	177	0.054	0.5	1.25	0.002	0.1	0.05
1546403	9.8	0.9	16	0.05	0.2	0.05	55	0.51	0.044	4	81	1.57	160	0.054	1	1.67	0.005	0.05	0.05
1546404	6.8	1.3	41	0.3	0.5	0.1	48	1.04	0.067	9	36	0.6	634	0.019	1	1.32	0.008	0.03	0.05
1546405	1.5	3.4	6	0.05	0.1	0.05	41	0.2	0.062	5	38	1.05	98	0.009	0.5	1.54	0.002	0.03	0.05
1546406	8.3	1.4	10	0.05	0.4	0.05	120	0.31	0.07	5	14	1.33	318	0.057	2	1.99	0.004	0.2	0.05
1546407	5	1.9	14	0.05	0.3	0.05	72	0.28	0.063	9	10	0.8	379	0.015	0.5	1.56	0.003	0.06	0.05
1546408	10.5	1.5	11	0.05	0.2	0.05	201	0.29	0.116	5	13	2.17	391	0.118	0.5	2.83	0.004	0.32	0.05
1546409	5.1	0.9	13	0.05	0.2	0.05	108	0.34	0.067	4	17	1.45	236	0.072	1	1.99	0.006	0.13	0.05
1546410	4.6	1.6	12	0.1	0.4	0.05	59	0.31	0.031	9	523	2.36	153	0.022	1	1.33	0.004	0.04	0.05
1546411	0.7	2.7	11	0.05	0.4	0.1	57	0.13	0.011	10	90	0.61	187	0.04	0.5	1.68	0.008	0.03	0.1
1546412	1.5	1.2	8	0.05	0.2	0.05	29	0.22	0.013	5	103	1.05	61	0.049	0.5	1.25	0.004	0.01	0.05
1546413	1.9	1.1	21	0.05	0.3	0.05	48	1.37	0.079	8	17	0.89	191	0.004	2	1.76	0.004	0.05	0.05
1546414	5.7	2	5	0.05	0.2	0.05	60	0.31	0.089	10	39	1.76	156	0.009	0.5	2.59	0.002	0.03	0.05
1546414	4.8	2.1	6	0.05	0.3	0.05	59	0.32	0.097	11	38	1.84	163	0.01	0.5	2.6	0.002	0.03	0.05
1546415	3.9	1	14	0.05	0.5	0.1	115	0.2	0.032	4	18	1.28	89	0.064	1	2.32	0.006	0.03	0.05
1546416	9.8	2.2	6	0.05	0.3	0.1	80	0.12	0.032	7	46	1.57	135	0.016	1	2.62	0.003	0.03	0.05
1546417	9.1	2.7	17	0.05	0.6	0.05	117	0.28	0.042	13	23	1.3	187	0.018	0.5	2.25	0.005	0.06	0.05
1546418	2	1	16	0.05	0.3	0.05	87	0.29	0.048	5	20	1.07	256	0.113	0.5	1.59	0.008	0.26	0.05
1546419	0.6	0.3	12	0.05	0.2	0.05	88	0.22	0.057	1	8	1.11	87	0.07	0.5	1.65	0.007	0.16	0.05
1546420	2.1	0.1	13	0.05	0.05	0.05	56	0.33	0.102	0.5	10	0.77	132	0.072	0.5	1.1	0.011	0.2	0.05
1546421	4.4	0.3	10	0.05	0.05	0.05	39	0.27	0.053	0.5	7	0.93	114	0.069	0.5	1.3	0.006	0.11	0.05
1546422	2.7	0.8	12	0.05	0.2	0.05	79	0.29	0.052	3	11	1.01	109	0.071	0.5	1.62	0.011	0.03	0.05
1546423	2.5	1.4	10	0.05	0.1	0.05	34	0.25	0.07	5	24	1.06	109	0.024	0.5	1.62	0.002	0.03	0.05
1546424	1.9	0.4	12	0.05	0.2	0.05	79	0.29	0.088	1	14	1.22	120	0.078	0.5	1.77	0.01	0.13	0.05
1546425	3.7	0.7	9	0.05	0.2	0.05	75	0.23	0.077	2	15	1.23	106	0.071	0.5	1.73	0.006	0.11	0.05
1546426	1.8	0.4	8	0.05	0.1	0.05	94	0.18	0.12	1	11	1.34	40	0.023	0.5	2.46	0.002	0.02	0.05
1546427	1.1	0.5	13	0.05	0.2	0.05	90	0.35	0.067	2	20	1.53	135	0.061	0.5	2.18	0.011	0.03	0.05
1546428	1.2	2.7	5	0.05	0.3	0.05	81	0.1	0.046	6	34	1.42	65	0.03	0.5	2.12	0.002	0.02	0.05
1546429	1.1	0.6	28	0.05	0.3	0.05	138	0.48	0.077	3	60	2.25	390	0.105	0.5	3.03	0.005	0.21	0.05
1546476	0.25	19.9	4	0.05	0.3	0.6	12	0.02	0.01	29	8	0.77	104	0.008	0.5	1.31	0.002	0.06	0.2
1546477	1.2	20.4	6	0.05	0.7	0.2	14	0.06	0.008	33	10	0.28	201	0.02	0.5	0.67	0.002	0.06	0.05
1546478	0.25	18.7	14	0.05	0.7	0.3	11	0.05	0.021	34	6	0.49	154	0.046	0.5	0.83	0.004	0.15	0.1

sample_id	hg_ppm	sc_ppm	tl_ppm	s_pct	ga_ppm	se_ppm	te_ppm
1546401	0.005	9.7	0.05	0.025	7	0.25	0.1
1546402	0.005	3	0.05	0.025	4	0.25	0.1
1546403	0.02	6.4	0.05	0.025	4	0.25	0.1
1546404	0.06	4.7	0.05	0.025	4	0.6	0.1
1546405	0.005	5.2	0.05	0.025	5	0.25	0.1
1546406	0.03	8.6	0.05	0.025	6	0.25	0.1
1546407	0.05	6.2	0.05	0.025	5	0.25	0.1
1546408	0.01	17	0.1	0.025	11	0.25	0.1
1546409	0.02	5.4	0.05	0.025	6	0.25	0.1
1546410	0.03	9	0.05	0.025	3	0.25	0.1
1546411	0.02	3	0.1	0.025	5	0.25	0.1
1546412	0.01	3.3	0.05	0.025	2	0.25	0.1
1546413	0.06	8.6	0.05	0.025	3	0.8	0.1
1546414	0.03	9	0.05	0.025	5	0.25	0.1
1546414	0.03	9.4	0.05	0.025	6	0.25	0.1
1546415	0.02	5.8	0.05	0.025	6	0.25	0.1
1546416	0.005	6.9	0.05	0.025	7	0.25	0.1
1546417	0.05	13.5	0.05	0.025	7	0.25	0.1
1546418	0.005	4.5	0.05	0.025	5	0.25	0.1
1546419	0.005	2.9	0.05	0.025	4	0.25	0.1
1546420	0.005	2	0.05	0.025	3	0.25	0.1
1546421	0.005	1.8	0.05	0.025	3	0.25	0.1
1546422	0.02	4.2	0.05	0.025	5	0.25	0.1
1546423	0.02	3.5	0.05	0.025	4	0.25	0.1
1546424	0.005	2.3	0.05	0.025	5	0.25	0.1
1546425	0.005	2.6	0.05	0.025	5	0.25	0.1
1546426	0.01	2.1	0.05	0.025	7	0.25	0.1
1546427	0.04	4.8	0.05	0.025	7	0.25	0.1
1546428	0.005	6.2	0.05	0.025	7	0.25	0.1
1546429	0.005	6.6	0.05	0.025	8	0.25	0.1
1546476	0.005	1.2	0.05	0.11	4	0.6	0.1
1546477	0.005	2.7	0.05	0.11	2	0.25	0.1
1546478	0.005	1.7	0.1	0.19	3	0.25	0.1

sample_id	sample_project	sample_technique	sample_date	utm_zone	utm_easting	utm_northing	longitude_wgs84	latitude_wgs84	duplicate_of_id	elevation_m	sample_method	sample_depth
1546479	HUN	NK01	#####	07N	597192	7088427	-139.0190971	63.9093951		905	Auger	70
1546480	HUN	NK01	#####	07N	597240	7088415	-139.0181271	63.9092741		898	Auger	70
1546481	HUN	NK01	#####	07N	597298	7088404	-139.0169528	63.90915928		889	Auger	80
1546482	HUN	NK01	#####	07N	597353	7088394	-139.015839	63.90905424		880	Auger	70
1546483	HUN	NK01	#####	07N	597402	7088385	-139.0148467	63.90895985		874	Auger	70
1546484	HUN	NK01	#####	07N	597453	7088377	-139.0138131	63.90887386		870	Auger	80
1546485	HUN	NK01	#####	07N	597501	7088369	-139.0128406	63.90878869		869	Auger	60
1546486	HUN	NK01	#####	07N	597547	7088360	-139.0119095	63.90869512		865	Auger	80
1546487	HUN	NK01	#####	07N	597598	7088352	-139.0108759	63.9086091		857	Auger	60
1546488	HUN	NK01	#####	07N	597650	7088342	-139.0098232	63.90850487		852	Auger	60
1546489	HUN	NK01	#####	07N	597701	7088334	-139.0087897	63.90841884		845	Auger	80
1546490	HUN	NK01	#####	07N	597750	7088326	-139.0077968	63.90833336		839	Auger	80
1546491	HUN	NK01	#####	07N	597796	7088318	-139.0068651	63.90824872		834	Auger	70
1546492	HUN	NK01	#####	07N	597846	7088309	-139.0058525	63.90815398		829	Auger	100
1546493	HUN	NK01	#####	07N	597897	7088298	-139.0048209	63.90804102		823	Auger	90
1546494	HUN	NK01	#####	07N	597942	7088292	-139.0039083	63.90797458		818	Auger	80
1546495	HUN	NK01	#####	07N	597994	7088283	-139.002855	63.90787926		812	Auger	80
1546496	HUN	NK01	#####	07N	598042	7088274	-139.0018832	63.90778506		805	Auger	70

sample_id	sampld_hori:	site_slope	soil_colour	site_vegetatio	site_ground_c	sample_moist	sample_qualit	sample_textur	sample_note_	sample_note_additional_	ren	type
1546479	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss	Damp	Excellent	Silt				Soil
1546480	C	Subtle Slope	Yellow	Black Spruce	Reindeer Moss	Damp	Excellent	Silt				Soil
1546481	B	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss	Damp	Good	Silt				Soil
1546482	C	Subtle Slope	Reddish Yellow	Willows	Bare Soil	Damp	Excellent	Silt				Soil
1546483	B	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss	Damp	Excellent	Clay				Soil
1546484	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss	Damp	Excellent	Silt				Soil
1546485	B	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss	Damp	Good	Clay				Soil
1546486	B	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss	Damp	Good	Clay				Soil
1546487	B	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss	Dry	Good	Silt				Soil
1546488	B	Subtle Slope	Chocolate Brov	Black Spruce	Reindeer Moss	Damp	Good	Clay				Soil
1546489	C	Subtle Slope	Reddish Brown	Black Spruce	Reindeer Moss	Damp	Good	Clay				Soil
1546490	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Silt				Soil
1546491	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss	Damp	Excellent	Silt				Soil
1546492	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Silt				Soil
1546493	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss	Damp	Excellent	Silt				Soil
1546494	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss	Damp	Excellent	Silt				Soil
1546495	C	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss	Damp	Excellent	Silt				Soil
1546496	B	Subtle Slope	Reddish Yellow	Black Spruce	Reindeer Moss	Damp	Excellent	Silt				Soil

sample_id	shipment_id	client	job_number	file_created	received	mo_ppm	cu_ppm	pb_ppm	zn_ppm	ag_ppm	ni_ppm	co_ppm	mn_ppm	fe_pct	as_ppm	u_ppm
1546479	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	6.9	6.8	6.8	26	0.05	5.5	2.9	130	1.73	6.2	2.6
1546480	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	2	6.8	4.8	32	0.05	11	3.4	140	1.19	3.3	3.1
1546481	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	1.4	9	6.6	37	0.05	6.5	5.7	211	1.42	3.4	1.8
1546482	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	1	6.8	26.9	77	0.05	7.8	4.5	177	1.47	4.1	1
1546483	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	0.5	31.9	22.8	143	0.05	49.4	19.8	804	3.15	3.6	1.2
1546484	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	0.7	6.1	23.6	32	0.05	5.7	2.5	86	1.06	4.3	0.6
1546485	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	2	20.1	17.1	77	0.2	23	11.2	239	3.1	11.3	1.2
1546486	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	0.6	67.1	7.1	126	0.05	30.2	29.7	795	4.78	3.1	0.4
1546487	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	0.7	2.8	8.2	142	0.05	2.6	1.7	300	1.34	2.9	1.4
1546488	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	1.2	16.7	27.8	166	0.8	16	8.2	461	2.66	7.1	0.5
1546489	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	0.9	19.9	171.9	184	0.2	12.4	18.6	549	3.83	4.4	1.3
1546490	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	0.3	9	10.8	40	0.05	6.5	4.4	162	1.01	2.7	0.6
1546491	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	0.7	7.8	29.3	86	0.05	5.3	3.3	113	1.39	3.9	0.9
1546492	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	0.6	31.9	82.1	78	0.05	7.3	5.2	187	1.3	3.7	1.8
1546493	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	1.1	28.9	55.2	86	0.05	15.4	6.3	360	1.83	6.8	2.1
1546494	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	2	34.4	679.9	335	0.6	7.1	3.2	278	3.77	9.7	1.7
1546495	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	1.2	55.8	226.2	290	0.3	14.1	3.9	341	3.18	11.3	2.5
1546496	HUN-20170814	White Gold Coi	WHI17000610	8/29/2017	8/16/2017	1.5	89.6	736.3	322	2	18.1	9.5	503	2.98	4.7	3.3

sample_id	au_ppb	th_ppm	sr_ppm	cd_ppm	sb_ppm	bi_ppm	v_ppm	ca_pct	p_pct	la_ppm	cr_ppm	mg_pct	ba_ppm	ti_pct	b_ppm	al_pct	na_pct	k_pct	w_ppm
1546479	2.7	18.4	24	0.05	0.6	0.3	16	0.1	0.021	46	11	0.47	223	0.036	1	1.07	0.005	0.14	0.1
1546480	1	15.8	9	0.05	0.3	0.2	19	0.07	0.009	24	11	0.54	139	0.045	0.5	1	0.004	0.08	0.1
1546481	0.5	11.5	9	0.05	0.4	0.1	19	0.13	0.013	22	15	0.52	185	0.035	0.5	1.03	0.003	0.06	0.2
1546482	0.25	16.4	7	0.2	0.6	0.3	21	0.09	0.017	18	19	0.47	150	0.036	0.5	1.15	0.003	0.1	0.1
1546483	0.25	9.7	18	0.1	0.4	0.1	61	0.42	0.027	17	145	2.32	156	0.143	0.5	2.17	0.006	0.18	0.1
1546484	0.8	8.9	5	0.05	0.3	0.3	23	0.05	0.014	11	11	0.3	189	0.012	1	0.99	0.003	0.06	0.05
1546485	1.6	6.5	13	0.1	0.6	0.2	63	0.11	0.034	14	41	0.67	269	0.082	2	2.31	0.008	0.11	0.1
1546486	0.25	1	20	0.05	0.6	0.05	110	0.57	0.122	4	101	3.05	365	0.185	0.5	2.86	0.004	0.44	0.05
1546487	0.25	17.2	6	0.2	0.3	0.1	15	0.09	0.017	23	7	0.68	68	0.059	0.5	1.01	0.004	0.19	0.2
1546488	1	4.9	11	1.2	0.5	0.2	63	0.15	0.037	13	29	0.63	155	0.054	0.5	1.84	0.004	0.08	0.2
1546489	0.9	6.6	18	0.7	1.1	1.5	98	0.33	0.039	19	50	1.84	157	0.19	1	2.23	0.005	0.49	0.2
1546490	0.7	16.7	12	0.05	0.3	0.1	15	0.17	0.017	17	11	0.72	135	0.058	0.5	0.78	0.003	0.09	0.2
1546491	0.25	11.4	7	0.1	0.4	0.3	20	0.06	0.012	10	15	0.36	171	0.01	0.5	1.3	0.003	0.06	0.1
1546492	0.6	14.4	14	0.3	0.3	0.7	17	0.15	0.029	37	11	0.51	290	0.047	0.5	0.83	0.004	0.07	0.3
1546493	2.6	12.3	17	0.2	0.8	0.4	35	0.15	0.024	37	20	0.35	287	0.043	1	0.91	0.008	0.06	0.2
1546494	0.8	5.3	25	0.05	0.7	1.1	22	0.07	0.046	21	10	0.99	279	0.042	0.5	1.2	0.034	0.17	0.05
1546495	1.7	8.4	27	0.2	0.8	0.6	36	0.19	0.043	37	62	1.65	232	0.054	1	1.88	0.01	0.11	0.05
1546496	0.7	9.6	29	1.1	0.7	11.8	36	0.2	0.05	35	84	1.38	127	0.052	1	1.8	0.005	0.08	0.1

sample_id	hg_ppm	sc_ppm	tl_ppm	s_pct	ga_ppm	se_ppm	te_ppm
1546479	0.01	2.6	0.1	0.1	3	0.25	0.1
1546480	0.005	2	0.2	0.07	2	0.25	0.1
1546481	0.005	1.8	0.1	0.14	3	0.25	0.1
1546482	0.005	2.2	0.2	0.1	4	0.25	0.1
1546483	0.005	5.2	0.4	0.1	7	0.25	0.1
1546484	0.01	1.1	0.1	0.025	3	0.25	0.1
1546485	0.03	3.9	0.2	0.025	6	0.25	0.1
1546486	0.005	4.9	0.2	0.05	9	0.6	0.1
1546487	0.005	0.7	0.1	0.1	8	0.25	0.1
1546488	0.02	3.1	0.2	0.14	8	0.25	0.1
1546489	0.005	9.8	0.6	0.12	8	0.25	0.1
1546490	0.01	2.9	0.2	0.11	2	0.25	0.1
1546491	0.01	2.4	0.1	0.07	4	0.25	0.1
1546492	0.005	2.5	0.2	0.05	3	0.25	0.1
1546493	0.03	4.3	0.05	0.1	3	0.25	0.1
1546494	0.01	4.1	0.1	0.52	5	1.2	0.1
1546495	0.01	4.7	0.1	0.24	5	1.9	0.1
1546496	0.02	4.1	0.1	0.2	5	3.3	0.1



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Submitted By: Jodie Gibson

Receiving Lab: Canada-Whitehorse

Received: August 16, 2017

Report Date: August 29, 2017

Page: 1 of 4

CERTIFICATE OF ANALYSIS

WHI17000609.1

CLIENT JOB INFORMATION

Project: HUN
Shipment ID: HUN-20170814-001-SOIL
P.O. Number
Number of Samples: 90

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

Invoice To: Ground Truth Exploration Inc.
Box 70
Dawson Yukon Y0B 1G0
Canada

CC: Isaac Fage
Shawn Ryan

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	90	Dry at 60C			WHI
SS80	90	Dry at 60C sieve 100g to -80 mesh			WHI
AQ201	90	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
SHP01	90	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



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: HUN
Report Date: August 29, 2017

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000609.1

	Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1545062	Soil	1.6	21.6	45.9	79	<0.1	12.7	6.8	289	1.93	6.2	2.3	2.5	9.0	12	0.2	0.4	0.3	35	0.13	0.027
1545063	Soil	1.8	19.8	78.6	97	<0.1	8.4	4.7	259	1.59	4.0	2.3	1.6	11.9	12	0.1	0.3	0.3	23	0.10	0.031
1545064	Soil	1.1	21.0	93.7	209	<0.1	9.8	7.7	406	1.82	2.7	2.2	1.2	15.7	14	0.2	0.2	0.3	25	0.25	0.035
1545065	Soil	2.2	26.2	50.0	79	<0.1	14.5	6.4	356	2.54	6.0	0.9	4.3	3.7	17	0.3	0.5	0.2	43	0.23	0.046
1545066	Soil	2.1	25.7	65.7	104	<0.1	7.8	6.8	366	1.79	4.2	1.7	5.9	15.6	17	0.4	0.4	0.3	27	0.36	0.066
1545067	Soil	1.9	45.1	58.3	130	<0.1	12.5	17.1	620	4.41	5.1	0.8	2.7	3.9	25	0.2	0.7	0.2	76	0.69	0.157
1545068	Soil	2.4	28.2	37.6	96	<0.1	12.7	14.9	585	4.57	8.2	0.8	1.4	3.9	20	0.3	0.7	0.2	80	0.40	0.106
1545069	Soil	1.4	22.5	15.0	62	<0.1	20.6	9.4	303	2.75	10.7	0.9	4.0	4.5	12	0.2	0.7	0.2	54	0.17	0.040
1545070	Soil	1.5	13.7	14.2	58	0.1	15.4	6.9	198	2.76	11.0	0.5	4.4	3.7	11	0.3	0.7	0.2	54	0.09	0.031
1545071	Soil	1.3	15.9	22.7	44	0.1	9.9	3.8	152	2.83	9.0	0.6	2.0	0.5	9	0.5	0.5	0.2	65	0.11	0.057
1545074	Soil	1.7	32.1	143.6	124	0.2	18.5	8.6	316	2.74	7.7	1.0	2.4	4.5	9	0.4	0.5	0.5	53	0.11	0.027
1545101	Soil	1.5	20.0	15.4	49	<0.1	16.9	7.1	233	2.68	8.5	1.3	1.7	7.1	9	0.1	0.6	0.3	57	0.09	0.027
1545102	Soil	1.7	36.5	53.0	158	<0.1	24.3	11.8	626	2.97	5.1	1.5	1.3	9.2	11	<0.1	0.4	0.7	55	0.20	0.062
1545075	Soil	1.4	13.7	54.2	82	0.1	8.1	3.4	269	1.68	3.0	1.2	<0.5	14.3	4	0.3	0.3	0.5	23	0.07	0.021
1545073	Soil	2.4	51.3	331.9	202	0.3	12.3	9.2	449	4.14	5.2	0.9	3.7	5.7	33	0.6	0.6	0.8	70	0.49	0.116
1545106	Soil	1.9	15.5	47.5	134	<0.1	12.7	6.5	366	2.03	4.2	0.9	1.3	6.2	10	0.2	0.3	0.3	36	0.15	0.032
1545105	Soil	1.6	58.4	40.0	133	0.4	29.5	13.0	473	3.15	8.7	2.5	5.0	10.3	14	0.3	0.7	0.5	66	0.16	0.032
1545104	Soil	1.5	29.4	62.7	66	<0.1	10.4	5.2	254	2.61	6.5	1.6	1.5	2.2	10	0.1	0.4	1.0	53	0.10	0.114
1545072	Soil	2.1	21.3	52.2	60	<0.1	13.0	5.8	272	2.26	7.7	0.8	6.7	6.0	14	0.1	0.7	0.2	34	0.17	0.020
1545103	Soil	2.5	43.4	103.1	187	<0.1	23.4	14.1	582	3.47	4.8	1.4	<0.5	7.9	12	<0.1	0.4	1.2	70	0.24	0.061
1545116	Soil	2.5	11.0	11.4	38	<0.1	8.6	4.4	186	1.55	4.4	2.4	1.1	15.1	9	<0.1	0.5	0.3	32	0.08	0.013
1545114	Soil	2.6	32.2	94.7	149	<0.1	17.4	9.3	359	2.33	4.8	1.9	<0.5	9.7	15	0.4	0.6	0.7	31	0.28	0.030
1545113	Soil	0.8	14.2	41.2	71	<0.1	9.3	7.9	406	1.78	2.5	1.6	0.6	16.6	12	0.3	0.9	0.3	22	0.17	0.024
1545107	Soil	0.5	29.3	170.3	175	0.2	34.3	18.0	650	3.15	4.1	0.5	1.0	2.3	16	0.4	0.5	1.7	72	0.32	0.055
1545111	Soil	3.2	26.5	33.1	73	<0.1	18.9	5.8	312	2.12	3.3	1.2	1.5	0.7	7	0.2	0.3	0.3	41	0.09	0.033
1545115	Soil	4.1	18.0	33.2	70	<0.1	9.0	6.4	228	2.18	5.1	2.2	4.4	12.1	9	0.2	1.0	0.4	30	0.10	0.020
1545109	Soil	1.3	16.3	21.3	70	<0.1	12.7	4.4	244	1.96	4.4	0.9	0.9	2.7	8	0.1	0.2	0.2	42	0.08	0.062
1475706	Soil	1.6	60.4	426.1	240	<0.1	15.3	8.6	472	3.01	3.3	6.2	<0.5	18.5	32	0.6	0.4	1.1	44	0.18	0.054
1545112	Soil	1.1	46.5	33.4	140	<0.1	16.5	9.5	388	2.26	5.2	2.2	1.1	11.4	14	0.4	0.7	0.3	47	0.26	0.029
1545110	Soil	2.6	30.5	29.8	76	<0.1	22.2	8.8	330	2.44	6.4	1.2	3.0	5.7	11	0.2	0.4	0.3	53	0.12	0.027



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Report Date: August 29, 2017

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	Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1545062	Soil	23	21	0.59	253	0.054	1	1.21	0.006	0.07	0.2	0.01	3.2	0.1	<0.05	4	<0.5
1545063	Soil	22	15	0.61	223	0.055	<1	1.00	0.004	0.11	0.1	0.01	2.3	0.2	0.11	3	<0.5
1545064	Soil	42	26	1.28	264	0.091	1	1.36	0.005	0.13	<0.1	<0.01	2.9	0.2	0.07	5	<0.5
1545065	Soil	19	23	0.48	228	0.060	<1	1.36	0.007	0.07	0.2	0.02	3.7	0.1	0.15	5	0.5
1545066	Soil	29	15	0.65	188	0.074	1	0.81	0.005	0.14	0.2	<0.01	2.8	0.1	0.09	3	<0.5
1545067	Soil	18	21	1.26	300	0.114	<1	1.74	0.005	0.10	0.2	0.01	8.2	0.2	0.07	7	0.6
1545068	Soil	15	24	0.89	145	0.101	<1	1.86	0.006	0.13	0.3	0.02	6.0	0.3	0.11	7	0.5
1545069	Soil	17	29	0.50	221	0.053	1	1.70	0.007	0.06	0.2	0.02	4.4	0.1	0.09	5	<0.5
1545070	Soil	12	27	0.41	161	0.049	<1	1.93	0.006	0.07	0.2	0.05	3.6	0.1	0.11	5	<0.5
1545071	Soil	14	22	0.27	127	0.036	<1	1.14	0.005	0.05	0.1	0.03	1.9	0.1	0.11	6	<0.5
1545074	Soil	14	35	0.80	115	0.057	<1	1.88	0.006	0.05	0.1	0.02	3.2	0.1	0.08	6	<0.5
1545101	Soil	21	30	0.52	147	0.051	<1	1.87	0.006	0.05	0.1	0.02	3.3	0.1	0.13	6	0.7
1545102	Soil	21	68	2.16	147	0.103	<1	2.25	0.004	0.14	0.1	<0.01	4.3	0.2	0.11	7	<0.5
1545075	Soil	25	15	0.90	34	0.044	<1	1.06	0.002	0.03	<0.1	<0.01	1.2	<0.1	0.07	5	<0.5
1545073	Soil	20	39	1.24	376	0.153	<1	1.71	0.007	0.32	0.2	<0.01	7.7	0.3	0.27	8	1.0
1545106	Soil	12	27	0.78	79	0.078	1	1.18	0.006	0.14	0.1	0.01	2.6	0.1	0.12	6	<0.5
1545105	Soil	33	49	0.93	263	0.076	1	2.23	0.009	0.09	0.2	0.05	7.9	0.2	0.14	7	0.8
1545104	Soil	18	35	0.65	138	0.051	<1	1.54	0.005	0.06	<0.1	0.02	3.1	0.2	0.13	7	<0.5
1545072	Soil	21	19	0.38	223	0.055	<1	1.00	0.007	0.10	0.2	0.02	3.8	0.1	0.13	4	0.6
1545103	Soil	14	82	2.66	112	0.150	<1	2.42	0.003	0.17	<0.1	<0.01	4.1	0.3	0.09	7	<0.5
1545116	Soil	33	18	0.32	315	0.041	<1	1.19	0.004	0.07	0.2	0.02	2.7	0.1	0.10	4	<0.5
1545114	Soil	36	42	0.89	192	0.106	<1	1.24	0.004	0.15	0.2	<0.01	3.0	0.3	0.13	4	<0.5
1545113	Soil	30	25	0.63	134	0.081	<1	1.05	0.004	0.12	0.1	<0.01	3.1	0.2	0.15	3	<0.5
1545107	Soil	8	82	1.65	247	0.125	<1	1.86	0.006	0.24	0.1	<0.01	4.9	0.2	<0.05	6	<0.5
1545111	Soil	14	42	1.13	85	0.047	<1	1.43	0.006	0.04	<0.1	0.01	1.3	<0.1	0.11	7	<0.5
1545115	Soil	32	22	0.41	209	0.049	1	1.16	0.004	0.09	0.2	0.01	2.9	0.2	0.12	4	<0.5
1545109	Soil	12	37	0.78	64	0.061	<1	1.25	0.005	0.05	<0.1	0.02	2.1	<0.1	0.11	6	<0.5
1475706	Soil	55	26	1.38	280	0.083	<1	1.91	0.005	0.47	<0.1	0.01	5.1	0.5	0.14	8	0.7
1545112	Soil	46	35	0.82	220	0.080	<1	1.28	0.005	0.13	0.1	0.01	5.8	0.2	0.08	5	<0.5
1545110	Soil	20	54	0.96	100	0.092	<1	1.63	0.006	0.05	0.1	0.02	3.1	0.1	0.07	6	<0.5



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	Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1545108	Soil	0.8	25.9	32.2	97	<0.1	30.6	15.0	463	2.73	5.0	0.5	1.2	2.0	10	0.2	0.4	0.2	65	0.20	0.031
1546275	Soil	1.2	17.4	18.0	71	<0.1	22.4	8.8	262	2.16	5.0	2.8	2.4	10.6	19	0.1	0.4	0.2	40	0.24	0.025
1546271	Soil	1.7	8.0	30.9	128	<0.1	28.0	12.4	388	2.52	2.3	3.1	<0.5	11.5	13	0.1	0.3	0.3	39	0.15	0.012
1546267	Soil	0.5	6.8	34.3	35	<0.1	6.2	3.8	103	0.88	2.7	2.0	<0.5	19.6	9	<0.1	0.3	0.6	15	0.09	0.009
1546272	Soil	1.5	9.4	36.5	91	<0.1	12.2	6.9	263	1.58	1.8	1.9	<0.5	11.4	10	0.1	0.3	0.2	23	0.15	0.022
1546266	Soil	1.3	11.5	31.8	56	<0.1	5.2	4.0	146	1.13	2.9	2.8	<0.5	20.1	16	<0.1	0.3	0.4	16	0.19	0.019
1546270	Soil	1.6	19.4	58.0	58	<0.1	5.0	2.8	128	1.16	4.1	1.7	1.6	10.6	3	0.1	0.8	1.1	13	0.02	0.012
1546268	Soil	0.6	15.9	14.7	47	<0.1	13.9	5.5	178	1.56	5.2	2.0	1.9	11.2	15	<0.1	0.5	0.2	27	0.21	0.030
1546269	Soil	0.6	31.2	15.9	82	<0.1	40.6	18.4	390	2.74	3.0	2.0	1.2	8.1	24	<0.1	0.4	0.3	42	0.56	0.046
1546273	Soil	1.1	2.6	18.6	47	<0.1	2.5	1.7	83	0.82	1.8	2.0	1.4	17.8	8	0.1	0.2	0.4	5	0.05	0.012
1475718	Soil	1.6	15.4	37.0	84	0.2	17.0	9.4	314	2.91	12.2	0.6	3.2	6.8	11	0.5	0.7	0.3	55	0.08	0.049
1475711	Soil	4.0	38.3	65.6	46	<0.1	3.6	2.0	72	1.05	2.7	3.0	0.5	22.6	4	<0.1	0.2	0.5	8	0.02	0.013
1475716	Soil	2.5	18.7	108.2	97	0.1	3.7	2.9	135	1.61	3.2	2.1	0.6	14.2	10	0.4	0.4	0.9	16	0.04	0.019
1475717	Soil	0.9	19.2	73.2	50	0.3	8.5	3.5	111	1.47	4.3	1.9	<0.5	9.9	8	0.1	0.4	0.3	26	0.07	0.010
1546264	Soil	0.2	4.9	36.8	26	<0.1	1.5	1.4	134	0.36	1.3	1.7	2.0	21.9	11	<0.1	0.2	0.4	<2	0.14	0.017
1475702	Soil	1.6	11.8	105.4	98	<0.1	11.1	6.6	256	1.54	2.9	2.1	1.1	11.9	15	0.3	0.5	0.5	25	0.26	0.022
1475715	Soil	0.7	24.3	58.5	70	<0.1	3.4	1.9	129	1.02	1.8	3.1	<0.5	18.9	3	0.2	0.3	0.6	8	0.02	0.010
1475709	Soil	0.9	60.5	147.1	161	<0.1	9.1	6.9	361	2.42	3.1	2.9	0.8	14.6	21	0.5	0.4	0.7	49	0.23	0.027
1480020	Soil	4.6	3.7	6.4	30	<0.1	3.5	2.3	145	1.17	2.1	2.5	<0.5	26.3	5	<0.1	0.4	0.4	6	0.05	0.008
1480178	Soil	1.6	22.2	29.6	72	0.3	14.7	6.4	261	2.99	10.3	1.3	2.2	8.5	12	0.2	0.8	0.3	67	0.10	0.041
1480176	Soil	0.8	29.6	21.2	59	<0.1	16.9	7.2	281	2.49	9.6	1.6	3.2	9.4	11	0.1	0.8	0.2	48	0.09	0.020
1480018	Soil	1.0	11.3	7.5	29	<0.1	8.2	3.4	156	1.24	4.4	2.3	2.5	13.9	7	<0.1	0.4	0.3	20	0.06	0.010
1480179	Soil	1.1	17.7	14.2	65	<0.1	15.9	6.8	214	2.66	12.6	0.7	2.2	6.0	9	0.2	0.7	0.2	55	0.08	0.028
1480019	Soil	5.5	2.2	24.3	8	0.2	1.6	1.3	56	1.79	2.3	1.2	0.8	16.8	8	<0.1	0.4	5.6	3	0.02	0.015
1480023	Soil	2.9	9.7	11.7	47	<0.1	12.1	6.6	383	2.27	7.3	1.7	0.9	14.6	8	<0.1	0.8	0.3	35	0.08	0.022
1480194	Soil	1.5	10.4	8.2	46	<0.1	9.0	11.2	457	2.06	4.3	2.0	1.0	9.2	14	0.2	0.7	0.1	44	0.69	0.025
1480196	Soil	1.0	20.5	44.1	55	0.1	21.2	7.9	197	2.39	8.9	1.4	1.3	18.3	10	0.1	1.0	0.3	46	0.08	0.015
1480191	Soil	0.6	14.0	46.5	89	<0.1	13.9	6.1	261	1.65	6.2	1.0	<0.5	15.8	12	0.4	0.7	0.2	29	0.16	0.022
1480192	Soil	0.8	16.7	57.2	106	<0.1	19.9	6.8	188	2.15	9.5	0.8	0.9	12.1	12	0.7	0.8	0.4	46	0.12	0.015
1480193	Soil	0.4	17.6	12.4	96	<0.1	16.8	19.8	632	2.72	3.5	1.3	0.6	8.1	16	0.3	0.8	<0.1	51	0.48	0.021



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	Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1545108	Soil	8	100	1.81	77	0.109	<1	2.06	0.005	0.06	0.1	0.02	3.4	0.1	0.08	7	<0.5
1546275	Soil	32	40	1.11	260	0.089	<1	1.54	0.009	0.15	0.1	0.01	4.7	0.3	0.11	5	<0.5
1546271	Soil	32	56	1.98	289	0.131	<1	1.93	0.007	0.68	<0.1	<0.01	6.1	0.6	0.07	10	<0.5
1546267	Soil	65	10	0.42	166	0.052	<1	0.76	0.003	0.07	<0.1	<0.01	1.9	0.1	0.10	2	<0.5
1546272	Soil	32	24	0.99	205	0.075	<1	1.28	0.004	0.32	<0.1	<0.01	3.1	0.3	0.13	4	<0.5
1546266	Soil	40	12	0.71	145	0.061	<1	0.87	0.003	0.10	0.2	<0.01	2.5	0.2	0.10	2	<0.5
1546270	Soil	20	8	0.10	71	0.013	2	0.71	0.003	0.07	0.1	<0.01	1.3	<0.1	<0.05	3	<0.5
1546268	Soil	28	21	0.66	190	0.065	2	1.08	0.006	0.07	0.1	0.01	3.3	0.2	<0.05	3	<0.5
1546269	Soil	23	63	2.77	391	0.152	2	2.11	0.007	0.65	<0.1	0.01	6.5	0.6	<0.05	6	<0.5
1546273	Soil	36	5	0.35	63	0.014	1	0.69	0.003	0.09	<0.1	<0.01	1.0	0.1	<0.05	2	<0.5
1475718	Soil	13	29	0.37	189	0.054	1	1.64	0.007	0.07	0.1	0.02	2.3	0.1	<0.05	5	<0.5
1475711	Soil	46	6	0.15	85	0.011	<1	0.63	0.002	0.06	<0.1	0.01	1.6	0.1	<0.05	2	<0.5
1475716	Soil	32	6	0.37	117	0.028	1	1.01	0.003	0.12	<0.1	<0.01	1.4	0.2	<0.05	4	1.2
1475717	Soil	25	15	0.25	153	0.036	1	0.94	0.005	0.05	0.1	0.01	2.5	<0.1	<0.05	3	<0.5
1546264	Soil	35	2	0.48	64	0.025	2	0.49	0.002	0.05	0.1	<0.01	1.1	0.1	<0.05	1	<0.5
1475702	Soil	36	19	0.85	111	0.081	2	1.14	0.004	0.13	0.1	<0.01	2.8	0.3	<0.05	4	<0.5
1475715	Soil	54	6	0.27	61	0.023	<1	0.67	0.002	0.09	<0.1	<0.01	1.4	<0.1	<0.05	3	<0.5
1475709	Soil	31	19	1.12	268	0.112	1	1.52	0.006	0.09	<0.1	<0.01	5.4	0.2	<0.05	6	<0.5
1480020	Soil	61	7	0.61	100	0.025	1	1.05	0.002	0.08	<0.1	<0.01	1.6	0.1	<0.05	3	<0.5
1480178	Soil	34	30	0.37	293	0.050	2	2.07	0.006	0.06	0.2	0.04	3.8	0.1	<0.05	7	<0.5
1480176	Soil	38	28	0.38	257	0.049	2	1.52	0.007	0.06	0.2	0.03	5.9	0.1	<0.05	5	<0.5
1480018	Soil	29	14	0.32	167	0.034	<1	1.03	0.003	0.07	0.1	<0.01	1.6	0.1	<0.05	3	<0.5
1480179	Soil	14	28	0.39	167	0.046	1	1.87	0.005	0.06	0.2	0.02	3.3	0.1	<0.05	5	<0.5
1480019	Soil	47	3	0.07	166	0.004	<1	0.44	0.008	0.17	<0.1	<0.01	0.7	<0.1	0.22	1	<0.5
1480023	Soil	26	21	0.48	204	0.051	2	1.60	0.004	0.07	0.1	0.01	2.6	0.2	<0.05	5	<0.5
1480194	Soil	15	28	0.89	114	0.100	2	1.33	0.004	0.12	0.2	0.01	4.5	0.4	<0.05	4	<0.5
1480196	Soil	24	29	0.43	210	0.059	<1	1.86	0.006	0.06	0.2	0.02	4.7	0.1	<0.05	4	<0.5
1480191	Soil	17	20	0.42	120	0.050	1	1.24	0.005	0.07	1.7	0.02	2.2	<0.1	<0.05	4	<0.5
1480192	Soil	16	26	0.40	247	0.049	1	1.86	0.005	0.07	0.2	0.02	2.6	0.2	<0.05	5	<0.5
1480193	Soil	17	58	2.03	136	0.237	3	2.10	0.004	0.34	0.1	<0.01	7.8	0.8	<0.05	5	<0.5



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	Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1480184	Soil	1.1	35.2	125.7	27	0.1	3.6	1.8	53	1.11	4.7	1.4	<0.5	20.7	3	<0.1	1.1	0.7	8	0.02	0.014
1480197	Soil	2.2	13.2	22.0	46	<0.1	11.1	5.7	188	2.53	10.9	3.6	6.2	11.7	6	0.1	1.2	0.3	41	0.05	0.042
1480195	Soil	0.7	12.4	41.6	25	0.2	6.2	2.1	73	1.68	4.4	0.8	1.3	5.5	5	0.1	0.5	0.2	33	0.04	0.034
1480180	Soil	1.1	8.5	15.1	56	0.2	6.1	3.5	205	1.93	5.6	0.5	1.3	3.9	10	0.3	0.4	0.2	55	0.10	0.023
1480025	Soil	1.9	12.8	23.6	30	<0.1	10.3	4.5	139	1.84	5.9	0.9	1.9	9.4	7	<0.1	0.5	0.6	26	0.06	0.014
1475707	Soil	1.2	10.7	40.9	45	<0.1	6.5	3.8	141	1.37	3.2	2.0	4.5	19.7	11	<0.1	0.3	0.2	17	0.08	0.012
1475708	Soil	0.7	10.1	17.4	32	<0.1	3.5	3.1	141	0.96	1.5	1.7	4.8	23.6	8	<0.1	0.2	0.2	7	0.05	0.009
1546274	Soil	0.9	17.3	19.6	83	<0.1	22.8	10.1	278	2.12	3.9	3.2	2.2	11.5	23	0.1	0.4	0.2	33	0.29	0.021
1480024	Soil	1.6	16.6	19.1	41	0.1	13.9	6.3	215	2.29	8.0	1.2	3.2	10.3	9	<0.1	0.6	0.5	39	0.07	0.019
1475704	Soil	0.7	9.7	35.6	62	<0.1	14.7	6.5	187	1.37	2.1	2.1	1.2	15.2	13	0.2	0.3	0.4	19	0.19	0.022
1475703	Soil	1.0	5.8	58.5	65	<0.1	6.1	3.3	182	1.46	3.5	1.8	<0.5	15.7	7	0.2	0.6	1.0	23	0.06	0.013
1475710	Soil	0.9	184.2	251.2	30	0.9	4.6	1.8	73	0.90	2.9	1.2	1.2	12.4	4	<0.1	0.6	3.3	12	0.02	0.015
1480022	Soil	3.1	8.5	47.0	86	<0.1	5.5	3.3	154	1.59	4.6	1.6	1.4	15.6	5	<0.1	0.5	1.1	23	0.03	0.013
1475714	Soil	1.4	37.7	45.9	93	0.2	20.9	8.7	311	2.69	9.1	4.2	2.5	13.8	10	0.3	0.7	0.4	53	0.08	0.016
1475705	Soil	1.2	4.6	37.8	63	<0.1	3.1	1.4	204	1.17	0.9	3.9	<0.5	20.2	12	<0.1	0.2	0.6	7	0.12	0.017
1475701	Soil	0.4	6.3	16.8	35	<0.1	5.6	3.0	85	0.80	1.7	2.1	0.7	17.2	9	<0.1	0.2	0.2	15	0.08	0.005
1480177	Soil	1.4	13.2	16.7	54	0.4	12.3	5.5	192	2.58	8.9	0.8	<0.5	4.7	11	0.2	0.6	0.3	65	0.11	0.026
1475712	Soil	1.5	14.5	34.3	47	<0.1	6.9	3.6	111	1.87	6.1	1.4	<0.5	12.2	7	0.1	0.4	0.3	35	0.04	0.019
1475713	Soil	0.6	20.3	72.9	41	<0.1	3.5	2.4	75	0.94	3.3	2.3	<0.5	18.7	4	0.2	0.3	0.2	15	0.03	0.015
1546265	Soil	0.8	34.7	18.6	144	<0.1	46.5	19.3	463	2.88	3.5	3.7	<0.5	10.4	25	0.1	0.6	0.1	37	0.57	0.056
1480186	Soil	1.5	18.8	34.5	39	0.1	9.9	3.3	94	2.05	7.6	0.9	<0.5	10.2	7	<0.1	0.5	0.6	46	0.06	0.021
1480190	Soil	1.1	11.9	528.7	734	0.3	16.0	5.3	373	2.38	9.2	1.0	2.9	6.4	14	1.2	0.8	0.8	57	0.19	0.029
1480187	Soil	3.8	8.4	26.0	38	0.1	5.8	2.2	83	1.58	5.3	0.9	0.8	13.8	4	<0.1	0.6	1.0	17	0.02	0.010
1480182	Soil	2.2	10.6	14.0	8	<0.1	1.0	0.6	16	1.99	4.3	0.3	<0.5	10.7	<1	<0.1	1.2	0.7	9	<0.01	0.014
1480181	Soil	1.1	7.7	21.4	37	0.1	7.1	2.8	159	1.73	7.1	0.4	1.2	4.7	6	0.1	0.7	0.3	44	0.05	0.021
1480183	Soil	1.3	33.9	43.6	31	0.1	10.4	4.8	156	2.19	7.7	0.9	2.1	11.4	9	<0.1	0.5	0.7	44	0.07	0.020
1480188	Soil	1.5	16.0	13.5	46	<0.1	7.2	6.5	352	2.50	9.0	1.0	<0.5	7.3	8	<0.1	1.6	0.4	42	0.07	0.029
1480021	Soil	1.5	14.2	12.5	45	<0.1	15.1	6.9	226	2.42	8.7	1.3	2.4	8.2	11	<0.1	0.6	0.3	55	0.08	0.017
1480189	Soil	0.8	26.7	23.3	52	<0.1	12.4	8.3	251	2.23	6.6	0.8	<0.5	10.3	13	<0.1	0.7	0.2	42	0.19	0.015
1480185	Soil	1.1	68.9	119.7	28	0.8	6.5	2.5	73	1.63	8.9	0.9	1.3	5.8	8	<0.1	0.6	1.4	36	0.06	0.021



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Project: HUN
Report Date: August 29, 2017

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Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI17000609.1

	Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1480184	Soil	14	5	0.06	81	0.006	1	0.57	0.002	0.08	0.1	<0.01	1.1	<0.1	<0.05	1	<0.5
1480197	Soil	40	22	0.23	124	0.022	1	1.45	0.004	0.07	0.1	0.02	2.0	0.1	<0.05	4	<0.5
1480195	Soil	21	16	0.15	108	0.026	<1	1.63	0.004	0.05	<0.1	0.04	2.6	0.1	<0.05	5	<0.5
1480180	Soil	13	16	0.21	257	0.041	1	1.26	0.004	0.04	0.2	0.02	2.0	0.1	<0.05	6	<0.5
1480025	Soil	21	16	0.24	226	0.030	1	0.87	0.006	0.07	0.1	0.01	3.1	<0.1	<0.05	3	0.7
1475707	Soil	38	11	0.48	127	0.045	<1	0.92	0.005	0.10	0.1	0.02	2.8	0.1	<0.05	3	<0.5
1475708	Soil	52	5	0.35	118	0.018	1	0.65	0.004	0.08	<0.1	<0.01	2.0	0.1	<0.05	2	<0.5
1546274	Soil	30	42	1.34	321	0.094	1	1.45	0.007	0.23	0.1	<0.01	4.9	0.3	<0.05	5	<0.5
1480024	Soil	25	24	0.36	311	0.043	2	1.32	0.006	0.07	0.2	0.02	4.1	0.1	<0.05	4	<0.5
1475704	Soil	33	29	0.80	106	0.079	1	1.06	0.003	0.15	<0.1	<0.01	2.4	0.3	<0.05	3	<0.5
1475703	Soil	39	12	0.34	121	0.034	1	0.94	0.004	0.07	0.1	<0.01	2.2	0.1	<0.05	4	<0.5
1475710	Soil	31	7	0.14	74	0.013	<1	0.68	0.003	0.05	<0.1	0.01	0.9	<0.1	<0.05	2	1.6
1480022	Soil	23	12	0.27	117	0.020	<1	0.93	0.003	0.04	0.1	0.01	2.4	0.1	<0.05	3	<0.5
1475714	Soil	33	36	0.65	237	0.075	1	1.84	0.007	0.07	<0.1	0.02	6.0	0.2	<0.05	5	1.0
1475705	Soil	36	3	0.55	199	0.013	<1	0.76	0.004	0.12	<0.1	<0.01	1.5	0.1	0.08	5	<0.5
1475701	Soil	42	14	0.42	75	0.041	<1	0.63	0.003	0.07	<0.1	<0.01	2.7	0.2	0.06	2	<0.5
1480177	Soil	25	30	0.33	304	0.045	<1	1.81	0.007	0.05	0.2	0.04	3.1	0.1	0.07	6	<0.5
1475712	Soil	24	15	0.25	180	0.026	<1	1.25	0.005	0.05	<0.1	<0.01	2.1	0.1	<0.05	4	0.7
1475713	Soil	48	8	0.14	97	0.018	<1	0.64	0.004	0.06	<0.1	0.01	1.6	<0.1	<0.05	2	0.6
1546265	Soil	48	85	2.54	403	0.194	1	2.10	0.005	0.78	0.1	<0.01	4.9	0.8	0.10	6	<0.5
1480186	Soil	18	18	0.23	261	0.032	<1	1.21	0.004	0.05	0.1	0.02	2.2	<0.1	<0.05	5	<0.5
1480190	Soil	18	30	0.46	184	0.056	2	1.70	0.006	0.04	0.2	0.03	3.1	0.2	0.06	6	0.6
1480187	Soil	40	16	0.11	131	0.009	1	0.55	0.001	0.08	0.2	<0.01	2.1	0.1	0.06	2	<0.5
1480182	Soil	3	3	0.02	91	0.005	<1	0.39	0.002	0.07	0.2	<0.01	0.7	<0.1	0.11	2	0.5
1480181	Soil	11	14	0.18	273	0.031	<1	0.95	0.004	0.06	0.2	0.01	1.6	0.1	0.06	5	<0.5
1480183	Soil	16	21	0.25	240	0.032	<1	1.40	0.006	0.06	0.1	0.02	2.3	0.1	<0.05	5	<0.5
1480188	Soil	30	19	0.73	158	0.022	<1	1.51	0.003	0.05	0.2	<0.01	2.1	0.1	<0.05	6	<0.5
1480021	Soil	22	30	0.44	321	0.063	<1	1.75	0.007	0.05	0.2	0.02	4.1	0.2	0.09	6	<0.5
1480189	Soil	27	30	0.68	137	0.105	<1	1.33	0.004	0.12	0.2	<0.01	3.0	0.3	0.10	4	<0.5
1480185	Soil	19	15	0.16	237	0.028	<1	1.00	0.004	0.05	0.2	0.02	2.0	0.1	0.11	4	<0.5



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Part: 1 of 2

QUALITY CONTROL REPORT

WHI17000609.1

	Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
1545101	Soil	1.5	20.0	15.4	49	<0.1	16.9	7.1	233	2.68	8.5	1.3	1.7	7.1	9	0.1	0.6	0.3	57	0.09	0.027
REP 1545101	QC	1.4	19.5	15.8	52	<0.1	17.3	6.7	234	2.69	8.7	1.3	2.2	7.2	10	0.1	0.6	0.3	58	0.08	0.029
1475709	Soil	0.9	60.5	147.1	161	<0.1	9.1	6.9	361	2.42	3.1	2.9	0.8	14.6	21	0.5	0.4	0.7	49	0.23	0.027
REP 1475709	QC	0.8	65.6	148.4	167	<0.1	9.7	7.6	392	2.55	3.1	3.0	2.4	15.1	21	0.4	0.4	0.7	52	0.23	0.027
1480182	Soil	2.2	10.6	14.0	8	<0.1	1.0	0.6	16	1.99	4.3	0.3	<0.5	10.7	<1	<0.1	1.2	0.7	9	<0.01	0.014
REP 1480182	QC	2.5	10.3	14.0	8	<0.1	0.8	0.6	16	1.95	4.4	0.4	<0.5	11.2	<1	<0.1	1.1	0.7	9	<0.01	0.014
Reference Materials																					
STD DS11	Standard	15.6	156.4	136.8	340	1.6	83.8	14.2	1049	3.16	40.9	2.6	73.4	8.0	66	2.3	8.6	12.5	55	1.06	0.073
STD DS11	Standard	14.4	151.3	137.3	339	1.7	77.6	13.3	1024	3.12	41.9	2.7	127.5	7.9	68	2.5	8.7	12.7	50	1.06	0.076
STD DS11	Standard	14.4	159.7	137.0	362	1.5	84.9	14.0	1003	3.11	42.1	2.7	64.1	7.5	64	2.3	8.3	11.7	54	1.01	0.066
STD OXC129	Standard	1.4	30.3	6.8	46	<0.1	84.0	21.5	442	3.29	0.6	0.7	190.9	1.8	191	<0.1	<0.1	<0.1	61	0.74	0.095
STD OXC129	Standard	1.2	28.0	6.4	43	<0.1	79.8	21.2	426	3.08	<0.5	0.7	204.0	1.8	187	<0.1	<0.1	<0.1	54	0.71	0.098
STD OXC129	Standard	1.3	30.3	6.4	47	<0.1	85.1	21.1	433	3.08	1.2	0.7	184.5	2.0	194	<0.1	<0.1	<0.1	61	0.70	0.099
STD OXC129 Expected		1.3	28	6.3	42.9		79.5	20.3	421	3.065	0.6	0.72	195	1.9					51	0.665	0.102
STD DS11 Expected		14.6	156	138	345	1.71	81.9	14.2	1055	3.2082	42.8	2.59	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	3	<0.01	<0.001



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Part: 2 of 2

QUALITY CONTROL REPORT

WHI17000609.1

	Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
1545101	Soil	21	30	0.52	147	0.051	<1	1.87	0.006	0.05	0.1	0.02	3.3	0.1	0.13	6	0.7	<0.2
REP 1545101	QC	21	30	0.53	146	0.054	<1	1.81	0.006	0.05	0.1	0.03	3.2	0.2	0.11	7	<0.5	<0.2
1475709	Soil	31	19	1.12	268	0.112	1	1.52	0.006	0.09	<0.1	<0.01	5.4	0.2	<0.05	6	<0.5	<0.2
REP 1475709	QC	33	21	1.14	267	0.117	<1	1.55	0.006	0.09	<0.1	<0.01	5.7	0.2	<0.05	6	<0.5	<0.2
1480182	Soil	3	3	0.02	91	0.005	<1	0.39	0.002	0.07	0.2	<0.01	0.7	<0.1	0.11	2	0.5	<0.2
REP 1480182	QC	3	2	0.02	97	0.005	<1	0.39	0.002	0.07	0.2	<0.01	0.9	<0.1	0.06	2	0.6	0.2
Reference Materials																		
STD DS11	Standard	19	61	0.85	381	0.101	6	1.15	0.075	0.38	3.2	0.27	3.7	5.0	0.41	5	2.3	5.0
STD DS11	Standard	19	58	0.88	384	0.097	8	1.20	0.075	0.40	3.1	0.28	3.3	5.0	0.27	5	2.1	4.5
STD DS11	Standard	19	61	0.85	367	0.096	7	1.11	0.074	0.35	3.1	0.25	3.4	5.1	0.33	5	2.2	4.5
STD OXC129	Standard	13	58	1.49	50	0.437	1	1.50	0.612	0.38	<0.1	<0.01	1.1	<0.1	0.11	6	<0.5	<0.2
STD OXC129	Standard	12	53	1.46	50	0.399	2	1.56	0.585	0.37	<0.1	<0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	13	59	1.54	50	0.426	2	1.56	0.587	0.36	<0.1	<0.01	1.9	<0.1	0.18	6	<0.5	<0.2
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37			1.1			5.6		
STD DS11 Expected		18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.3	3.4	4.9	0.2835	5.1	1.9	4.56
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	0.10	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	0.06	<1	<0.5	<0.2



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Submitted By: Jodie Gibson
Receiving Lab: Canada-Whitehorse
Received: August 16, 2017
Report Date: August 29, 2017
Page: 1 of 3

CERTIFICATE OF ANALYSIS

WHI17000610.1

CLIENT JOB INFORMATION

Project: HUN
Shipment ID: HUN-20170814-002-SOIL
P.O. Number
Number of Samples: 33

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

Invoice To: Ground Truth Exploration Inc.
Box 70
Dawson Yukon Y0B 1G0
Canada

CC: Isaac Fage
Shawn Ryan

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	33	Dry at 60C			WHI
SS80	33	Dry at 60C sieve 100g to -80 mesh			WHI
AQ201	33	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
SHP01	33	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



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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CERTIFICATE OF ANALYSIS

WHI17000610.1

	Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1546493	Soil	1.1	28.9	55.2	86	<0.1	15.4	6.3	360	1.83	6.8	2.1	2.6	12.3	17	0.2	0.8	0.4	35	0.15	0.024
1546494	Soil	2.0	34.4	679.9	335	0.6	7.1	3.2	278	3.77	9.7	1.7	0.8	5.3	25	<0.1	0.7	1.1	22	0.07	0.046
1546495	Soil	1.2	55.8	226.2	290	0.3	14.1	3.9	341	3.18	11.3	2.5	1.7	8.4	27	0.2	0.8	0.6	36	0.19	0.043
1546487	Soil	0.7	2.8	8.2	142	<0.1	2.6	1.7	300	1.34	2.9	1.4	<0.5	17.2	6	0.2	0.3	0.1	15	0.09	0.017
1546492	Soil	0.6	31.9	82.1	78	<0.1	7.3	5.2	187	1.30	3.7	1.8	0.6	14.4	14	0.3	0.3	0.7	17	0.15	0.029
1546490	Soil	0.3	9.0	10.8	40	<0.1	6.5	4.4	162	1.01	2.7	0.6	0.7	16.7	12	<0.1	0.3	0.1	15	0.17	0.017
1546486	Soil	0.6	67.1	7.1	126	<0.1	30.2	29.7	795	4.78	3.1	0.4	<0.5	1.0	20	<0.1	0.6	<0.1	110	0.57	0.122
1546488	Soil	1.2	16.7	27.8	166	0.8	16.0	8.2	461	2.66	7.1	0.5	1.0	4.9	11	1.2	0.5	0.2	63	0.15	0.037
1546491	Soil	0.7	7.8	29.3	86	<0.1	5.3	3.3	113	1.39	3.9	0.9	<0.5	11.4	7	0.1	0.4	0.3	20	0.06	0.012
1546489	Soil	0.9	19.9	171.9	184	0.2	12.4	18.6	549	3.83	4.4	1.3	0.9	6.6	18	0.7	1.1	1.5	98	0.33	0.039
1546496	Soil	1.5	89.6	736.3	322	2.0	18.1	9.5	503	2.98	4.7	3.3	0.7	9.6	29	1.1	0.7	11.8	36	0.20	0.050
1546482	Soil	1.0	6.8	26.9	77	<0.1	7.8	4.5	177	1.47	4.1	1.0	<0.5	16.4	7	0.2	0.6	0.3	21	0.09	0.017
1546480	Soil	2.0	6.8	4.8	32	<0.1	11.0	3.4	140	1.19	3.3	3.1	1.0	15.8	9	<0.1	0.3	0.2	19	0.07	0.009
1546483	Soil	0.5	31.9	22.8	143	<0.1	49.4	19.8	804	3.15	3.6	1.2	<0.5	9.7	18	0.1	0.4	0.1	61	0.42	0.027
1546476	Soil	6.1	4.1	4.6	35	<0.1	3.8	2.4	148	2.09	3.0	2.1	<0.5	19.9	4	<0.1	0.3	0.6	12	0.02	0.010
1546477	Soil	0.8	5.2	10.6	29	<0.1	4.9	2.9	104	0.96	2.7	1.3	1.2	20.4	6	<0.1	0.7	0.2	14	0.06	0.008
1546478	Soil	2.9	3.9	5.8	24	<0.1	2.9	2.2	133	1.55	3.5	1.8	<0.5	18.7	14	<0.1	0.7	0.3	11	0.05	0.021
1546481	Soil	1.4	9.0	6.6	37	<0.1	6.5	5.7	211	1.42	3.4	1.8	0.5	11.5	9	<0.1	0.4	0.1	19	0.13	0.013
1546484	Soil	0.7	6.1	23.6	32	<0.1	5.7	2.5	86	1.06	4.3	0.6	0.8	8.9	5	<0.1	0.3	0.3	23	0.05	0.014
1546479	Soil	6.9	6.8	6.8	26	<0.1	5.5	2.9	130	1.73	6.2	2.6	2.7	18.4	24	<0.1	0.6	0.3	16	0.10	0.021
1546485	Soil	2.0	20.1	17.1	77	0.2	23.0	11.2	239	3.10	11.3	1.2	1.6	6.5	13	0.1	0.6	0.2	63	0.11	0.034
1538322	Soil	1.4	5.4	4.5	37	<0.1	2.7	2.1	125	1.26	1.9	3.2	<0.5	24.0	8	<0.1	0.2	0.6	10	0.09	0.009
1538325	Soil	2.1	4.3	8.6	41	<0.1	6.2	3.2	197	2.36	3.5	1.7	2.5	26.9	7	<0.1	0.8	0.8	15	0.05	0.016
1538320	Soil	1.8	14.3	25.8	48	<0.1	10.3	4.9	199	1.80	5.0	1.8	1.0	12.8	12	<0.1	0.5	0.5	31	0.10	0.019
1538318	Soil	1.7	13.0	17.5	50	<0.1	11.0	5.8	255	2.01	5.2	1.8	20.7	14.1	12	<0.1	0.4	0.3	33	0.13	0.022
1538315	Soil	2.7	94.5	376.8	432	0.5	20.9	20.4	821	3.57	4.5	1.8	0.6	8.6	24	1.2	0.8	4.8	68	0.52	0.109
1538319	Soil	1.7	17.1	24.0	51	<0.1	13.7	6.4	268	2.12	7.2	2.3	1.4	13.2	13	<0.1	0.5	0.5	38	0.10	0.022
1538313	Soil	0.9	29.4	25.4	112	<0.1	28.7	12.1	377	2.30	3.5	0.6	2.2	2.3	9	0.1	0.3	0.2	51	0.18	0.034
1538316	Soil	1.1	8.9	51.1	52	<0.1	7.7	4.8	207	1.50	5.0	0.9	0.5	7.2	8	0.2	0.5	0.4	30	0.08	0.026
1538323	Soil	1.5	4.3	4.1	33	<0.1	3.1	2.2	167	1.28	1.8	3.9	<0.5	25.7	8	<0.1	0.2	0.3	11	0.08	0.009



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1546493	Soil	37	20	0.35	287	0.043	1	0.91	0.008	0.06	0.2	0.03	4.3	<0.1	0.10	3	<0.5
1546494	Soil	21	10	0.99	279	0.042	<1	1.20	0.034	0.17	<0.1	0.01	4.1	0.1	0.52	5	1.2
1546495	Soil	37	62	1.65	232	0.054	1	1.88	0.010	0.11	<0.1	0.01	4.7	0.1	0.24	5	1.9
1546487	Soil	23	7	0.68	68	0.059	<1	1.01	0.004	0.19	0.2	<0.01	0.7	0.1	0.10	8	<0.5
1546492	Soil	37	11	0.51	290	0.047	<1	0.83	0.004	0.07	0.3	<0.01	2.5	0.2	0.05	3	<0.5
1546490	Soil	17	11	0.72	135	0.058	<1	0.78	0.003	0.09	0.2	0.01	2.9	0.2	0.11	2	<0.5
1546486	Soil	4	101	3.05	365	0.185	<1	2.86	0.004	0.44	<0.1	<0.01	4.9	0.2	0.05	9	0.6
1546488	Soil	13	29	0.63	155	0.054	<1	1.84	0.004	0.08	0.2	0.02	3.1	0.2	0.14	8	<0.5
1546491	Soil	10	15	0.36	171	0.010	<1	1.30	0.003	0.06	0.1	0.01	2.4	0.1	0.07	4	<0.5
1546489	Soil	19	50	1.84	157	0.190	1	2.23	0.005	0.49	0.2	<0.01	9.8	0.6	0.12	8	<0.5
1546496	Soil	35	84	1.38	127	0.052	1	1.80	0.005	0.08	0.1	0.02	4.1	0.1	0.20	5	3.3
1546482	Soil	18	19	0.47	150	0.036	<1	1.15	0.003	0.10	0.1	<0.01	2.2	0.2	0.10	4	<0.5
1546480	Soil	24	11	0.54	139	0.045	<1	1.00	0.004	0.08	0.1	<0.01	2.0	0.2	0.07	2	<0.5
1546483	Soil	17	145	2.32	156	0.143	<1	2.17	0.006	0.18	0.1	<0.01	5.2	0.4	0.10	7	<0.5
1546476	Soil	29	8	0.77	104	0.008	<1	1.31	0.002	0.06	0.2	<0.01	1.2	<0.1	0.11	4	0.6
1546477	Soil	33	10	0.28	201	0.020	<1	0.67	0.002	0.06	<0.1	<0.01	2.7	<0.1	0.11	2	<0.5
1546478	Soil	34	6	0.49	154	0.046	<1	0.83	0.004	0.15	0.1	<0.01	1.7	0.1	0.19	3	<0.5
1546481	Soil	22	15	0.52	185	0.035	<1	1.03	0.003	0.06	0.2	<0.01	1.8	0.1	0.14	3	<0.5
1546484	Soil	11	11	0.30	189	0.012	1	0.99	0.003	0.06	<0.1	0.01	1.1	0.1	<0.05	3	<0.5
1546479	Soil	46	11	0.47	223	0.036	1	1.07	0.005	0.14	0.1	0.01	2.6	0.1	0.10	3	<0.5
1546485	Soil	14	41	0.67	269	0.082	2	2.31	0.008	0.11	0.1	0.03	3.9	0.2	<0.05	6	<0.5
1538322	Soil	36	6	0.63	182	0.024	2	0.94	0.003	0.09	0.1	<0.01	1.7	0.1	<0.05	2	<0.5
1538325	Soil	25	10	0.79	94	0.013	1	1.55	0.003	0.14	0.2	<0.01	1.4	0.1	<0.05	4	0.6
1538320	Soil	31	18	0.35	497	0.034	<1	1.05	0.006	0.07	<0.1	0.02	2.9	<0.1	<0.05	3	<0.5
1538318	Soil	34	21	0.63	288	0.050	1	1.32	0.005	0.07	0.1	0.02	2.9	0.1	<0.05	4	<0.5
1538315	Soil	23	30	1.55	228	0.098	1	1.87	0.004	0.29	0.2	0.01	6.6	0.3	<0.05	7	0.6
1538319	Soil	36	25	0.48	275	0.047	<1	1.32	0.006	0.07	0.1	0.02	3.2	0.1	<0.05	4	<0.5
1538313	Soil	8	81	1.58	74	0.089	1	1.69	0.004	0.06	<0.1	0.01	2.7	<0.1	<0.05	5	<0.5
1538316	Soil	18	17	0.30	185	0.030	1	0.84	0.003	0.05	0.1	<0.01	1.6	<0.1	<0.05	3	<0.5
1538323	Soil	59	6	0.65	144	0.019	<1	1.00	0.003	0.05	<0.1	<0.01	1.4	<0.1	<0.05	3	<0.5



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
1538321	Soil	1.9	11.2	9.0	55	<0.1	3.1	1.3	198	1.01	1.7	3.3	<0.5	27.5	10	<0.1	0.2	0.3	11	0.12
1538314	Soil	2.3	21.7	30.2	118	<0.1	30.4	12.8	616	2.91	2.5	1.2	<0.5	7.5	9	0.1	0.2	0.3	49	0.18
1538324	Soil	2.1	5.9	10.1	48	<0.1	11.6	4.5	206	2.88	3.1	2.1	1.3	29.3	8	<0.1	0.9	0.9	14	0.05



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	Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1538321	Soil	46	5	0.94	360	0.020	<1	1.02	0.003	0.06	0.1	<0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
1538314	Soil	18	70	2.33	99	0.107	<1	2.14	0.003	0.09	<0.1	<0.01	3.4	<0.1	<0.05	9	<0.5	<0.2
1538324	Soil	42	14	1.00	106	0.010	<1	1.75	0.003	0.12	0.2	<0.01	1.6	0.1	<0.05	5	0.5	<0.2



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QUALITY CONTROL REPORT

WHI17000610.1

	Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
1538323	Soil	1.5	4.3	4.1	33	<0.1	3.1	2.2	167	1.28	1.8	3.9	<0.5	25.7	8	<0.1	0.2	0.3	11	0.08	0.009
REP 1538323	QC	1.6	4.1	4.3	33	<0.1	3.1	2.1	167	1.29	1.8	4.0	<0.5	25.3	8	<0.1	0.3	0.3	11	0.08	0.009
Reference Materials																					
STD DS11	Standard	14.8	146.0	138.1	324	1.6	80.1	13.6	1017	3.12	42.5	2.6	73.0	7.5	65	2.3	8.1	11.9	51	1.02	0.071
STD DS11	Standard	14.4	159.7	137.0	362	1.5	84.9	14.0	1003	3.11	42.1	2.7	64.1	7.5	64	2.3	8.3	11.7	54	1.01	0.066
STD OXC129	Standard	1.3	28.1	6.6	43	<0.1	81.7	21.2	437	3.19	0.8	0.7	199.9	1.9	197	<0.1	<0.1	<0.1	58	0.73	0.108
STD OXC129	Standard	1.3	30.3	6.4	47	<0.1	85.1	21.1	433	3.08	1.2	0.7	184.5	2.0	194	<0.1	<0.1	<0.1	61	0.70	0.099
STD OXC129 Expected		1.3	28	6.3	42.9		79.5	20.3	421	3.065	0.6	0.72	195	1.9					51	0.665	0.102
STD DS11 Expected		14.6	156	138	345	1.71	81.9	14.2	1055	3.2082	42.8	2.59	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	3	<0.01	<0.001



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
1538323	Soil	59	6	0.65	144	0.019	<1	1.00	0.003	0.05	<0.1	<0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
REP 1538323	QC	60	6	0.69	141	0.019	<1	1.02	0.003	0.05	<0.1	<0.01	1.3	<0.1	<0.05	3	<0.5	<0.2
Reference Materials																		
STD DS11	Standard	18	59	0.80	358	0.092	7	1.06	0.071	0.39	2.9	0.29	3.1	4.8	0.29	4	2.3	4.6
STD DS11	Standard	19	61	0.85	367	0.096	7	1.11	0.074	0.35	3.1	0.25	3.4	5.1	0.33	5	2.2	4.5
STD OXC129	Standard	13	56	1.59	51	0.435	1	1.63	0.643	0.38	<0.1	<0.01	1.2	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	13	59	1.54	50	0.426	2	1.56	0.587	0.36	<0.1	<0.01	1.9	<0.1	0.18	6	<0.5	<0.2
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37	1.1			5.6				
STD DS11 Expected		18.6	61.5	0.85	385	0.0976	1.1795		0.0762	0.4	2.9	0.3	3.4	4.9	0.2835	5.1	1.9	4.56
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	0.06	<1	<0.5	<0.2



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White Gold Corp.

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Dawson Yukon Y0B 1G0 Canada

Submitted By: Jodie Gibson

Receiving Lab: Canada-Whitehorse

Received: August 22, 2017

Report Date: September 01, 2017

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CERTIFICATE OF ANALYSIS

WHI17000653.1

CLIENT JOB INFORMATION

Project: HUN
Shipment ID: HUN-20170817-001-SOIL
P.O. Number
Number of Samples: 183

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

Invoice To: Ground Truth Exploration Inc.
Box 70
Dawson Yukon Y0B 1G0
Canada

CC: Isaac Fage
Shawn Ryan

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	183	Dry at 60C			WHI
SS80	183	Dry at 60C sieve 100g to -80 mesh			WHI
AQ201	183	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
SHP01	183	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



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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CERTIFICATE OF ANALYSIS

WHI17000653.1

	Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1546382	Soil	3.4	14.3	107.4	66	0.3	4.5	2.4	119	1.48	3.2	1.5	1.2	13.0	7	<0.1	0.4	0.8	16	0.06	0.018
1546370	Soil	0.3	20.7	57.5	122	<0.1	18.0	9.2	410	1.85	2.7	1.9	<0.5	13.8	19	0.6	0.6	0.4	37	0.40	0.047
1546365	Soil	0.2	66.3	408.3	482	<0.1	18.8	13.6	668	2.18	2.3	1.0	<0.5	9.5	27	2.2	1.0	0.1	36	0.60	0.095
1546371	Soil	0.4	23.9	259.7	316	<0.1	51.5	26.0	1074	2.77	1.2	0.3	1.1	0.7	20	1.2	1.0	<0.1	66	0.66	0.133
1546377	Soil	2.1	19.3	72.8	130	0.2	16.6	10.9	338	2.27	6.5	1.1	0.6	9.7	16	0.3	1.1	0.5	40	0.27	0.045
1546369	Soil	0.8	14.3	76.4	113	0.1	1.8	4.7	361	5.11	6.9	2.0	0.6	4.9	23	0.2	0.3	0.5	35	0.54	0.175
1546367	Soil	0.2	18.7	25.1	76	<0.1	36.7	21.1	394	2.43	3.4	0.6	1.0	5.6	26	0.1	0.4	<0.1	45	0.75	0.069
1546366	Soil	0.3	36.3	33.4	118	<0.1	33.8	19.6	675	3.26	3.6	0.6	<0.5	5.7	20	0.4	0.8	<0.1	36	0.64	0.107
1546383	Soil	1.9	15.5	63.5	63	0.2	8.4	3.8	161	1.71	3.8	2.3	2.5	13.6	13	<0.1	0.5	0.4	26	0.11	0.023
1546372	Soil	1.4	19.7	234.9	204	0.7	35.8	9.9	506	3.39	5.5	1.5	0.6	8.5	10	0.6	0.5	0.4	62	0.13	0.030
1546379	Soil	2.2	12.4	170.1	103	0.2	6.5	3.7	136	1.69	3.7	1.6	0.6	15.4	10	0.2	0.7	0.4	19	0.07	0.021
1546373	Soil	1.6	31.2	173.2	226	<0.1	24.9	17.3	638	3.99	2.6	0.8	<0.5	2.8	11	0.5	0.5	0.5	92	0.25	0.035
1546376	Soil	1.3	20.0	12.6	77	0.2	15.6	23.4	487	3.02	8.3	0.2	0.5	0.9	12	0.5	0.5	<0.1	65	0.26	0.092
1546374	Soil	1.9	12.9	38.1	57	<0.1	8.2	4.1	160	1.89	5.9	1.2	<0.5	9.8	9	<0.1	0.5	0.4	31	0.09	0.021
1546378	Soil	3.2	13.6	196.9	193	0.2	6.0	4.3	327	1.63	3.6	1.8	0.9	19.2	15	0.6	1.5	1.0	14	0.13	0.031
1546368	Soil	0.3	15.7	48.1	99	<0.1	16.0	11.2	283	1.80	2.9	1.6	<0.5	14.0	18	0.5	0.5	0.3	38	0.33	0.038
1546361	Soil	0.8	13.9	38.5	99	<0.1	15.3	9.6	236	1.70	2.4	4.0	<0.5	12.7	8	0.2	0.7	0.2	32	0.32	0.025
1546357	Soil	0.5	13.2	4.8	52	<0.1	36.9	14.3	311	2.30	2.4	2.4	<0.5	11.7	16	<0.1	0.3	<0.1	40	0.39	0.071
1546362	Soil	1.4	25.9	154.0	327	<0.1	8.4	5.2	589	1.68	3.0	3.6	<0.5	9.5	12	0.6	0.7	0.1	29	0.18	0.030
1546384	Soil	1.6	15.6	43.4	54	0.1	9.6	4.5	157	1.92	5.4	1.8	1.4	9.8	13	0.1	0.4	0.6	34	0.13	0.027
1546356	Soil	0.7	6.8	19.6	33	<0.1	5.4	2.8	147	0.80	2.3	2.8	<0.5	16.1	10	<0.1	0.4	0.2	13	0.14	0.025
1546355	Soil	0.3	7.2	12.7	46	<0.1	9.9	4.9	184	1.25	2.9	2.5	0.8	16.2	11	0.1	0.4	0.1	19	0.10	0.020
1546363	Soil	0.4	22.7	90.5	211	<0.1	6.0	6.6	348	1.43	2.1	1.8	<0.5	8.5	12	0.7	0.4	<0.1	20	0.19	0.020
1546381	Soil	1.7	7.2	175.1	120	0.2	6.1	3.4	158	1.49	2.3	1.7	<0.5	14.8	10	0.4	0.6	0.5	19	0.10	0.019
1477184	Soil	0.7	14.3	25.2	52	0.1	11.3	5.8	345	1.82	7.4	1.3	1.2	7.2	8	0.2	0.2	0.3	27	0.13	0.042
1546364	Soil	0.2	29.7	37.4	102	<0.1	23.4	12.8	331	2.30	2.9	1.8	<0.5	17.4	21	0.2	0.6	0.2	34	0.47	0.069
1546358	Soil	0.4	28.6	6.1	50	<0.1	62.0	18.9	365	2.46	2.3	2.1	<0.5	5.0	15	<0.1	0.3	<0.1	37	0.40	0.079
1546375	Soil	1.9	13.4	38.3	54	<0.1	8.8	4.2	163	1.95	5.6	1.3	2.4	10.0	10	0.2	0.5	0.3	31	0.10	0.020
1477176	Soil	1.4	42.4	13.5	77	0.8	35.0	13.9	337	3.26	20.2	0.8	5.4	5.8	8	0.2	0.6	0.2	59	0.09	0.026
1546359	Soil	0.4	31.6	2.7	65	<0.1	51.5	22.5	529	3.36	1.1	2.8	<0.5	1.4	22	<0.1	0.3	<0.1	61	0.63	0.137



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Report Date: September 01, 2017

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1546382	Soil	22	10	0.37	291	0.021	<1	0.78	0.005	0.07	0.2	<0.01	1.2	<0.1	<0.05	3	<0.5
1546370	Soil	23	34	1.19	93	0.139	1	1.41	0.003	0.14	0.4	<0.01	3.6	0.4	<0.05	4	<0.5
1546365	Soil	16	40	1.34	63	0.086	2	1.36	0.004	0.06	0.2	<0.01	4.3	0.2	<0.05	4	<0.5
1546371	Soil	3	125	1.75	203	0.121	<1	1.60	0.005	0.18	0.1	<0.01	4.5	0.2	<0.05	5	<0.5
1546377	Soil	22	46	0.80	195	0.077	1	1.32	0.007	0.09	0.2	0.02	3.5	0.1	<0.05	4	<0.5
1546369	Soil	15	2	0.63	284	0.091	<1	0.88	0.005	0.39	0.2	<0.01	5.1	0.3	0.08	6	<0.5
1546367	Soil	10	85	1.80	79	0.144	1	1.53	0.005	0.13	0.2	<0.01	4.7	0.3	<0.05	4	<0.5
1546366	Soil	13	56	1.99	130	0.082	2	1.93	0.004	0.16	<0.1	<0.01	4.2	0.4	<0.05	6	<0.5
1546383	Soil	35	17	0.38	456	0.036	<1	0.93	0.006	0.07	0.1	0.02	2.6	<0.1	<0.05	3	<0.5
1546372	Soil	21	76	1.95	95	0.078	<1	2.50	0.004	0.09	<0.1	0.01	4.4	0.2	<0.05	9	0.6
1546379	Soil	35	13	0.30	274	0.021	<1	0.77	0.006	0.09	0.1	<0.01	1.8	<0.1	<0.05	2	0.6
1546373	Soil	8	65	2.51	167	0.236	<1	2.62	0.004	0.08	<0.1	<0.01	3.9	0.1	<0.05	8	<0.5
1546376	Soil	4	56	1.29	97	0.094	<1	1.74	0.005	0.04	0.1	0.01	2.8	<0.1	<0.05	5	<0.5
1546374	Soil	23	16	0.37	275	0.030	<1	1.10	0.005	0.06	0.2	0.01	2.1	<0.1	<0.05	3	<0.5
1546378	Soil	46	13	0.33	196	0.015	<1	0.66	0.004	0.10	0.2	0.01	2.0	<0.1	<0.05	3	<0.5
1546368	Soil	18	28	1.06	73	0.143	<1	1.36	0.004	0.09	0.4	<0.01	2.9	0.3	<0.05	4	<0.5
1546361	Soil	11	47	0.70	52	0.087	<1	1.35	0.002	0.09	<0.1	<0.01	3.7	0.2	<0.05	4	<0.5
1546357	Soil	20	105	1.86	185	0.098	<1	1.63	0.004	0.43	<0.1	<0.01	3.1	0.4	<0.05	5	<0.5
1546362	Soil	20	16	0.39	79	0.070	<1	1.05	0.003	0.09	0.1	0.02	2.4	0.2	<0.05	4	<0.5
1546384	Soil	28	19	0.40	413	0.037	<1	1.10	0.006	0.06	0.2	0.01	2.5	<0.1	<0.05	3	<0.5
1546356	Soil	28	12	0.42	68	0.036	<1	0.63	0.004	0.09	0.1	<0.01	1.3	0.2	<0.05	2	<0.5
1546355	Soil	21	17	0.44	63	0.049	<1	1.02	0.004	0.09	<0.1	<0.01	2.0	0.1	<0.05	3	<0.5
1546363	Soil	12	13	0.59	110	0.080	<1	0.83	0.003	0.28	0.1	<0.01	2.6	0.3	<0.05	3	<0.5
1546381	Soil	43	12	0.47	315	0.026	<1	0.87	0.004	0.07	0.2	0.02	1.7	<0.1	<0.05	3	<0.5
1477184	Soil	28	15	0.72	101	0.023	<1	1.22	0.003	0.08	<0.1	<0.01	1.8	0.1	<0.05	4	<0.5
1546364	Soil	42	29	1.36	126	0.168	<1	1.58	0.004	0.23	0.2	<0.01	5.4	0.4	<0.05	4	<0.5
1546358	Soil	11	110	1.77	191	0.093	<1	1.66	0.004	0.21	<0.1	<0.01	3.8	0.2	<0.05	4	<0.5
1546375	Soil	23	17	0.37	288	0.033	<1	1.05	0.006	0.06	0.2	<0.01	2.2	<0.1	<0.05	3	<0.5
1477176	Soil	17	39	0.86	153	0.033	<1	2.27	0.006	0.05	0.2	0.03	4.3	0.1	<0.05	6	0.7
1546359	Soil	8	124	2.39	401	0.090	<1	2.16	0.007	0.85	<0.1	<0.01	5.0	0.5	<0.05	7	<0.5



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	Method	Analyte	Unit	MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201		
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1546360	Soil				1.0	31.0	42.0	56	<0.1	21.1	10.7	262	2.61	7.5	2.3	3.3	13.8	11	0.1	1.2	0.2	51	0.11	0.020
1546380	Soil				3.8	9.3	217.4	109	0.3	5.6	3.6	166	1.84	3.2	1.6	0.6	16.0	10	0.1	0.6	0.7	16	0.06	0.017
1442303	Soil				1.4	25.3	10.6	64	0.8	22.7	10.6	272	3.21	12.0	0.6	2.1	3.8	7	<0.1	0.7	0.1	59	0.08	0.035
1477180	Soil				0.5	26.1	7.5	90	0.2	18.2	12.1	657	3.21	4.9	0.7	0.8	3.3	12	0.2	0.1	<0.1	68	0.21	0.072
1477185	Soil				0.5	25.8	56.9	89	0.3	13.1	7.4	766	1.96	7.1	1.4	0.8	15.5	7	0.7	0.1	0.5	15	0.14	0.063
1477182	Soil				1.2	26.8	13.7	84	0.4	21.0	17.9	958	3.64	7.0	0.9	2.2	2.4	9	0.2	0.1	0.2	55	0.16	0.077
1442306	Soil				0.4	35.7	6.4	98	0.2	27.1	15.1	650	3.69	271.4	0.8	56.3	6.6	20	0.3	1.7	0.1	61	0.32	0.110
1477199	Soil				1.6	41.6	15.6	94	0.2	24.6	14.3	630	3.82	15.0	1.0	4.1	5.3	10	0.2	0.5	0.3	38	0.16	0.092
1477183	Soil				1.4	34.4	16.1	77	0.4	23.0	13.5	546	3.14	32.0	0.9	7.4	3.1	10	0.4	0.4	0.2	43	0.17	0.058
1477177	Soil				1.4	28.4	13.0	65	0.2	27.9	10.9	283	3.05	14.4	0.6	5.6	3.9	10	0.2	0.8	0.2	57	0.10	0.028
1477200	Soil				2.0	41.1	20.2	89	0.4	24.6	13.6	652	3.84	17.3	1.1	4.8	6.1	8	0.2	0.7	0.4	43	0.13	0.086
1442305	Soil				1.1	41.9	51.4	117	0.2	30.2	15.8	689	3.55	67.5	1.2	57.6	7.1	18	0.4	0.8	0.2	35	0.20	0.069
1477179	Soil				0.5	31.1	13.6	104	0.1	21.5	14.1	588	3.45	6.7	0.5	2.3	2.6	10	0.2	0.3	0.1	62	0.21	0.064
1477181	Soil				0.9	25.9	14.3	78	0.3	19.8	12.9	539	3.19	6.5	1.2	5.0	3.9	10	0.2	0.2	0.2	48	0.17	0.062
1442307	Soil				0.6	20.1	10.0	58	0.1	15.5	7.7	412	2.26	58.4	0.8	23.0	5.5	12	0.2	0.6	0.1	30	0.14	0.047
1442301	Soil				1.5	22.0	8.0	68	0.2	16.3	8.3	417	3.27	16.8	0.5	3.3	1.2	7	0.2	0.5	0.2	64	0.08	0.052
1477186	Soil				0.3	21.6	64.8	133	<0.1	13.1	10.1	630	2.17	5.6	1.2	2.8	10.4	8	0.4	0.2	0.2	21	0.14	0.066
1477178	Soil				0.6	28.6	17.5	79	<0.1	14.4	15.6	718	4.07	8.9	0.5	3.6	3.5	7	0.2	0.2	0.2	71	0.11	0.056
1477191	Soil				1.7	20.1	12.2	59	0.4	18.5	10.4	424	3.17	48.8	0.6	5.1	2.0	9	0.2	0.7	0.2	51	0.11	0.060
1477198	Soil				1.6	19.8	16.6	70	<0.1	22.5	12.4	353	3.29	62.3	0.6	6.3	3.4	11	0.4	1.6	0.3	48	0.10	0.035
1442304	Soil				1.1	38.7	19.4	73	<0.1	24.7	11.5	486	3.36	77.4	0.8	3.5	6.4	6	0.2	0.4	0.1	43	0.08	0.038
1442302	Soil				1.8	39.4	16.3	87	<0.1	29.7	17.2	835	4.03	48.4	0.6	19.6	7.2	9	0.2	0.1	<0.1	44	0.18	0.087
1477187	Soil				1.5	31.5	21.9	80	<0.1	24.0	11.7	429	3.52	28.5	1.1	6.0	5.2	10	0.3	1.0	0.2	60	0.11	0.037
1477195	Soil				1.8	37.1	12.5	89	0.1	27.1	12.9	496	3.54	225.8	0.9	11.7	2.9	8	0.3	1.1	<0.1	48	0.08	0.042
1477194	Soil				1.3	54.0	13.4	103	<0.1	36.4	18.1	724	4.01	29.0	1.2	3.0	8.4	6	0.3	0.3	<0.1	50	0.14	0.072
1477190	Soil				2.2	33.2	34.1	78	1.1	31.9	14.3	447	4.00	64.9	0.8	4.3	3.8	7	0.3	0.7	0.3	54	0.07	0.043
1546425	Soil				0.2	133.7	1.2	50	<0.1	15.1	17.3	709	3.45	2.2	0.1	3.7	0.7	9	<0.1	0.2	<0.1	75	0.23	0.077
1477192	Soil				1.7	46.6	15.2	97	0.2	36.1	16.6	696	3.86	66.0	0.9	4.6	7.5	7	0.3	0.3	0.2	48	0.17	0.087
1477197	Soil				1.2	34.8	11.6	68	0.1	26.2	13.0	403	3.61	189.4	1.0	15.3	5.1	15	<0.1	1.5	0.2	63	0.16	0.034
1477188	Soil				2.6	55.7	36.8	104	0.5	30.7	14.3	626	3.71	76.0	1.0	5.7	4.6	8	0.6	0.5	0.5	46	0.12	0.067



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	Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1546360	Soil	33	28	0.49	188	0.050	1	1.84	0.006	0.07	0.1	0.03	5.5	0.2	<0.05	5	<0.5
1546380	Soil	29	12	0.32	414	0.018	<1	0.69	0.007	0.11	0.1	<0.01	1.8	<0.1	0.08	3	<0.5
1442303	Soil	18	27	0.62	200	0.026	<1	2.04	0.004	0.07	0.2	0.03	3.1	0.1	<0.05	6	<0.5
1477180	Soil	10	26	1.53	147	0.081	<1	1.84	0.003	0.32	<0.1	<0.01	4.5	0.2	<0.05	7	<0.5
1477185	Soil	40	12	0.89	53	0.024	<1	1.10	0.002	0.08	<0.1	<0.01	1.9	0.1	<0.05	3	<0.5
1477182	Soil	17	30	1.44	69	0.037	<1	1.98	0.003	0.06	<0.1	0.01	3.3	<0.1	<0.05	6	<0.5
1442306	Soil	22	32	1.50	173	0.043	1	2.02	0.004	0.13	<0.1	0.02	5.1	0.1	<0.05	7	<0.5
1477199	Soil	34	20	1.15	111	0.014	2	1.93	0.003	0.07	<0.1	0.01	2.4	0.1	<0.05	6	<0.5
1477183	Soil	25	27	1.01	117	0.024	1	1.74	0.004	0.05	0.1	0.02	2.7	0.2	<0.05	6	0.6
1477177	Soil	12	33	0.69	131	0.046	2	2.08	0.006	0.05	0.2	0.04	3.7	0.1	<0.05	6	<0.5
1477200	Soil	33	22	1.09	125	0.015	1	2.09	0.003	0.07	0.1	0.02	2.9	0.2	<0.05	6	<0.5
1442305	Soil	29	20	1.15	232	0.015	<1	1.66	0.003	0.08	<0.1	0.01	3.7	0.1	<0.05	5	<0.5
1477179	Soil	10	32	1.56	87	0.033	<1	2.26	0.003	0.05	0.1	0.01	3.5	0.1	<0.05	7	<0.5
1477181	Soil	25	25	1.40	122	0.061	1	1.82	0.004	0.08	<0.1	0.02	3.7	0.1	<0.05	6	<0.5
1442307	Soil	23	19	0.82	126	0.020	1	1.31	0.004	0.05	<0.1	<0.01	3.0	<0.1	<0.05	4	<0.5
1442301	Soil	22	29	0.86	93	0.022	<1	1.68	0.004	0.05	<0.1	0.02	2.3	0.1	<0.05	7	<0.5
1477186	Soil	19	17	0.82	82	0.083	<1	1.30	0.003	0.25	<0.1	<0.01	1.7	0.3	<0.05	4	<0.5
1477178	Soil	7	19	1.50	74	0.043	<1	2.29	0.003	0.06	<0.1	0.01	4.4	0.1	<0.05	9	<0.5
1477191	Soil	17	24	0.67	174	0.022	<1	1.83	0.005	0.06	0.1	0.02	2.3	0.1	<0.05	6	<0.5
1477198	Soil	16	27	0.63	154	0.032	2	1.78	0.006	0.08	0.2	0.02	3.1	0.1	<0.05	5	<0.5
1442304	Soil	23	23	1.07	105	0.027	<1	1.79	0.004	0.06	<0.1	<0.01	2.7	<0.1	<0.05	5	<0.5
1442302	Soil	17	25	1.30	82	0.068	<1	1.97	0.002	0.16	<0.1	<0.01	3.3	0.2	<0.05	5	<0.5
1477187	Soil	22	35	0.81	210	0.031	<1	2.29	0.006	0.06	0.2	0.02	4.1	0.2	<0.05	7	<0.5
1477195	Soil	27	26	1.06	173	0.011	<1	2.07	0.004	0.06	<0.1	0.01	2.6	0.1	<0.05	6	<0.5
1477194	Soil	23	30	1.55	75	0.044	<1	2.06	0.003	0.07	<0.1	<0.01	3.7	0.1	<0.05	6	<0.5
1477190	Soil	22	29	0.80	180	0.017	<1	2.38	0.005	0.07	0.2	0.04	3.1	0.1	<0.05	6	<0.5
1546425	Soil	2	15	1.23	106	0.071	<1	1.73	0.006	0.11	<0.1	<0.01	2.6	<0.1	<0.05	5	<0.5
1477192	Soil	20	30	1.35	99	0.020	<1	2.02	0.003	0.05	<0.1	0.01	3.4	<0.1	<0.05	6	<0.5
1477197	Soil	21	34	0.86	226	0.031	<1	1.96	0.006	0.06	0.1	0.02	5.1	0.2	<0.05	6	<0.5
1477188	Soil	24	26	0.80	139	0.021	<1	1.84	0.004	0.04	0.2	0.02	2.7	0.1	<0.05	5	0.6



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	Method	Analyte	Unit	MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201		
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1546423	Soil			<0.1	77.6	2.8	66	<0.1	20.8	14.4	638	3.45	0.8	0.2	2.5	1.4	10	<0.1	0.1	<0.1	34	0.25	0.070	
1477196	Soil			2.0	44.0	9.9	102	0.1	34.4	16.6	514	4.03	19.2	1.0	4.1	5.6	10	0.2	0.5	<0.1	73	0.12	0.051	
1477189	Soil			1.7	38.9	13.7	93	0.5	27.6	14.0	522	3.65	326.4	1.1	7.4	6.8	7	0.4	0.5	<0.1	45	0.09	0.052	
1477193	Soil			2.3	67.0	17.7	106	0.4	37.6	19.7	913	4.61	41.9	1.4	6.8	9.4	8	0.5	0.3	0.2	48	0.18	0.083	
1546424	Soil			0.1	111.3	0.5	51	<0.1	15.4	17.4	757	3.28	1.4	0.1	1.9	0.4	12	<0.1	0.2	<0.1	79	0.29	0.088	
1546428	Soil			0.2	93.9	2.6	67	<0.1	23.7	14.7	704	4.21	3.6	0.5	1.2	2.7	5	<0.1	0.3	<0.1	81	0.10	0.046	
1546404	Soil			0.5	52.5	5.9	39	0.1	23.4	12.9	966	2.31	5.0	0.7	6.8	1.3	41	0.3	0.5	0.1	48	1.04	0.067	
1546408	Soil			0.2	185.8	2.0	90	<0.1	15.0	23.1	955	5.48	2.1	0.3	10.5	1.5	11	<0.1	0.2	<0.1	201	0.29	0.116	
1546417	Soil			0.3	127.7	4.7	59	<0.1	19.4	17.3	569	4.32	4.1	0.7	9.1	2.7	17	<0.1	0.6	<0.1	117	0.28	0.042	
1546426	Soil			0.5	75.3	5.2	71	<0.1	13.0	24.6	647	6.06	3.9	0.1	1.8	0.4	8	<0.1	0.1	<0.1	94	0.18	0.120	
1546422	Soil			0.3	94.7	3.1	57	<0.1	10.3	19.5	579	3.44	2.7	0.2	2.7	0.8	12	<0.1	0.2	<0.1	79	0.29	0.052	
1546421	Soil			<0.1	107.6	0.4	41	<0.1	10.8	15.4	346	2.34	0.7	0.1	4.4	0.3	10	<0.1	<0.1	<0.1	39	0.27	0.053	
1546415	Soil			0.6	133.1	3.4	69	<0.1	14.8	17.9	527	4.51	4.3	0.2	3.9	1.0	14	<0.1	0.5	0.1	115	0.20	0.032	
1546416	Soil			0.4	54.7	4.4	40	<0.1	24.8	13.5	404	3.51	4.6	0.3	9.8	2.2	6	<0.1	0.3	0.1	80	0.12	0.032	
1546406	Soil			0.5	216.5	2.7	56	<0.1	16.6	18.0	744	4.20	3.1	0.3	8.3	1.4	10	<0.1	0.4	<0.1	120	0.31	0.070	
1546420	Soil			<0.1	113.3	0.2	34	<0.1	10.5	12.6	384	2.12	0.6	<0.1	2.1	0.1	13	<0.1	<0.1	<0.1	56	0.33	0.102	
1546419	Soil			0.2	88.7	1.3	44	<0.1	8.7	14.4	493	3.04	2.4	<0.1	0.6	0.3	12	<0.1	0.2	<0.1	88	0.22	0.057	
1546413	Soil			0.3	91.6	4.0	49	0.1	25.5	18.7	952	4.15	2.3	0.7	1.9	1.1	21	<0.1	0.3	<0.1	48	1.37	0.079	
1546409	Soil			0.2	144.7	2.0	58	<0.1	17.9	18.7	475	3.70	2.0	0.3	5.1	0.9	13	<0.1	0.2	<0.1	108	0.34	0.067	
1546418	Soil			0.2	108.9	1.8	42	<0.1	18.8	16.0	331	2.98	2.6	0.2	2.0	1.0	16	<0.1	0.3	<0.1	87	0.29	0.048	
1466639	Soil			1.6	35.6	42.4	115	0.2	23.2	12.8	419	3.17	8.0	0.9	1.7	4.1	10	0.4	0.4	0.2	58	0.18	0.038	
1546405	Soil			0.1	55.0	3.4	60	<0.1	33.1	10.6	580	2.90	1.4	0.3	1.5	3.4	6	<0.1	0.1	<0.1	41	0.20	0.062	
1546427	Soil			0.1	181.4	0.9	80	<0.1	17.6	15.5	636	4.09	1.8	0.3	1.1	0.5	13	<0.1	0.2	<0.1	90	0.35	0.067	
1546412	Soil			0.2	50.0	2.6	18	<0.1	61.7	12.4	178	1.40	3.2	0.2	1.5	1.2	8	<0.1	0.2	<0.1	29	0.22	0.013	
1466650	Soil			1.7	46.4	8.5	94	0.2	34.1	11.1	468	3.76	34.0	0.9	0.6	7.0	8	0.2	0.3	<0.1	50	0.15	0.069	
1546402	Soil			0.3	136.3	1.4	56	<0.1	13.7	17.2	598	3.24	2.1	0.1	4.4	0.5	11	<0.1	0.1	<0.1	86	0.21	0.066	
1546414	Soil			0.3	87.4	2.3	78	<0.1	34.2	21.0	1286	4.85	2.3	0.2	4.8	2.1	6	<0.1	0.3	<0.1	59	0.32	0.097	
1546429	Soil			0.1	83.2	1.1	74	<0.1	38.8	29.9	1145	5.70	1.9	0.3	1.1	0.6	28	<0.1	0.3	<0.1	138	0.48	0.077	
1466638	Soil			1.4	26.8	25.8	96	0.1	23.3	10.2	368	3.20	36.2	0.5	1.6	2.7	10	0.5	0.5	0.2	68	0.16	0.036	
1546410	Soil			0.5	65.8	3.7	38	<0.1	435.6	49.2	848	4.49	3.3	0.4	4.6	1.6	12	0.1	0.4	<0.1	59	0.31	0.031	



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1546423	Soil	5	24	1.06	109	0.024	<1	1.62	0.002	0.03	<0.1	0.02	3.5	<0.1	<0.05	4	<0.5
1477196	Soil	22	40	1.76	139	0.049	<1	2.43	0.004	0.07	<0.1	0.03	5.6	0.1	<0.05	7	<0.5
1477189	Soil	22	24	0.96	149	0.043	<1	2.05	0.005	0.06	0.6	0.02	3.1	0.2	<0.05	5	<0.5
1477193	Soil	32	27	1.50	106	0.069	<1	1.97	0.002	0.11	<0.1	<0.01	4.2	0.2	<0.05	5	0.6
1546424	Soil	1	14	1.22	120	0.078	<1	1.77	0.010	0.13	<0.1	<0.01	2.3	<0.1	<0.05	5	<0.5
1546428	Soil	6	34	1.42	65	0.030	<1	2.12	0.002	0.02	<0.1	<0.01	6.2	<0.1	<0.05	7	<0.5
1546404	Soil	9	36	0.60	634	0.019	1	1.32	0.008	0.03	<0.1	0.06	4.7	<0.1	<0.05	4	0.6
1546408	Soil	5	13	2.17	391	0.118	<1	2.83	0.004	0.32	<0.1	0.01	17.0	0.1	<0.05	11	<0.5
1546417	Soil	13	23	1.30	187	0.018	<1	2.25	0.005	0.06	<0.1	0.05	13.5	<0.1	<0.05	7	<0.5
1546426	Soil	1	11	1.34	40	0.023	<1	2.46	0.002	0.02	<0.1	0.01	2.1	<0.1	<0.05	7	<0.5
1546422	Soil	3	11	1.01	109	0.071	<1	1.62	0.011	0.03	<0.1	0.02	4.2	<0.1	<0.05	5	<0.5
1546421	Soil	<1	7	0.93	114	0.069	<1	1.30	0.006	0.11	<0.1	<0.01	1.8	<0.1	<0.05	3	<0.5
1546415	Soil	4	18	1.28	89	0.064	1	2.32	0.006	0.03	<0.1	0.02	5.8	<0.1	<0.05	6	<0.5
1546416	Soil	7	46	1.57	135	0.016	1	2.62	0.003	0.03	<0.1	<0.01	6.9	<0.1	<0.05	7	<0.5
1546406	Soil	5	14	1.33	318	0.057	2	1.99	0.004	0.20	<0.1	0.03	8.6	<0.1	<0.05	6	<0.5
1546420	Soil	<1	10	0.77	132	0.072	<1	1.10	0.011	0.20	<0.1	<0.01	2.0	<0.1	<0.05	3	<0.5
1546419	Soil	1	8	1.11	87	0.070	<1	1.65	0.007	0.16	<0.1	<0.01	2.9	<0.1	<0.05	4	<0.5
1546413	Soil	8	17	0.89	191	0.004	2	1.76	0.004	0.05	<0.1	0.06	8.6	<0.1	<0.05	3	0.8
1546409	Soil	4	17	1.45	236	0.072	1	1.99	0.006	0.13	<0.1	0.02	5.4	<0.1	<0.05	6	<0.5
1546418	Soil	5	20	1.07	256	0.113	<1	1.59	0.008	0.26	<0.1	<0.01	4.5	<0.1	<0.05	5	<0.5
1466639	Soil	11	30	1.09	117	0.049	1	2.06	0.004	0.03	0.2	0.02	3.6	0.1	<0.05	6	<0.5
1546405	Soil	5	38	1.05	98	0.009	<1	1.54	0.002	0.03	<0.1	<0.01	5.2	<0.1	<0.05	5	<0.5
1546427	Soil	2	20	1.53	135	0.061	<1	2.18	0.011	0.03	<0.1	0.04	4.8	<0.1	<0.05	7	<0.5
1546412	Soil	5	103	1.05	61	0.049	<1	1.25	0.004	0.01	<0.1	0.01	3.3	<0.1	<0.05	2	<0.5
1466650	Soil	11	32	1.52	102	0.068	<1	2.14	0.002	0.07	0.1	0.01	2.6	0.2	<0.05	5	<0.5
1546402	Soil	2	12	0.90	177	0.054	<1	1.25	0.002	0.10	<0.1	<0.01	3.0	<0.1	<0.05	4	<0.5
1546414	Soil	11	38	1.84	163	0.010	<1	2.60	0.002	0.03	<0.1	0.03	9.4	<0.1	<0.05	6	<0.5
1546429	Soil	3	60	2.25	390	0.105	<1	3.03	0.005	0.21	<0.1	<0.01	6.6	<0.1	<0.05	8	<0.5
1466638	Soil	12	35	0.90	80	0.047	<1	1.99	0.004	0.03	0.2	0.01	3.3	0.1	<0.05	7	<0.5
1546410	Soil	9	523	2.36	153	0.022	1	1.33	0.004	0.04	<0.1	0.03	9.0	<0.1	<0.05	3	<0.5



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CERTIFICATE OF ANALYSIS

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	Method	Analyte	Unit	MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1546403	Soil				0.5	99.5	4.8	40	<0.1	55.2	17.4	416	2.66	3.9	0.1	9.8	0.9	16	<0.1	0.2	<0.1	55	0.51	0.044
1546411	Soil				0.7	12.9	8.6	40	<0.1	58.7	10.6	183	2.51	9.2	0.3	0.7	2.7	11	<0.1	0.4	0.1	57	0.13	0.011
1466633	Soil				1.1	29.6	21.7	78	<0.1	26.0	10.7	276	3.16	12.5	0.5	2.8	4.3	8	0.3	0.7	0.1	61	0.10	0.023
1466643	Soil				1.4	16.5	11.3	79	0.3	13.9	9.2	450	3.84	15.1	0.3	<0.5	3.1	7	0.1	0.4	0.1	62	0.10	0.050
1546401	Soil				0.2	82.6	1.6	66	<0.1	12.9	15.7	1028	3.42	2.5	0.1	2.2	1.2	7	<0.1	0.1	<0.1	84	0.21	0.080
1546407	Soil				0.4	124.0	3.0	57	<0.1	11.9	15.2	544	3.79	3.2	0.5	5.0	1.9	14	<0.1	0.3	<0.1	72	0.28	0.063
1466632	Soil				1.0	30.8	42.0	93	<0.1	14.1	14.2	672	3.44	16.3	0.5	1.2	3.4	6	0.3	0.4	0.2	50	0.12	0.053
1466631	Soil				0.8	35.0	12.0	107	<0.1	25.9	12.1	406	3.23	27.0	0.5	1.2	4.4	7	0.5	0.5	0.1	60	0.08	0.025
1466641	Soil				0.8	22.3	14.9	104	0.1	18.1	9.9	489	3.57	32.0	0.3	<0.5	3.9	7	0.2	0.2	<0.1	60	0.16	0.057
1466646	Soil				1.3	38.3	19.7	115	<0.1	27.6	13.9	411	4.38	20.5	0.6	<0.5	5.2	4	0.3	0.3	<0.1	45	0.08	0.052
1466645	Soil				1.6	22.9	83.1	132	0.6	17.5	8.1	292	3.29	32.8	0.6	0.9	3.6	8	0.4	0.6	0.2	56	0.08	0.044
1466629	Soil				1.1	25.7	37.4	76	<0.1	24.0	11.6	313	2.94	15.5	0.6	<0.5	4.6	9	0.3	0.6	0.2	53	0.11	0.032
1466647	Soil				2.5	35.4	78.0	100	0.4	24.8	10.0	243	3.53	83.1	1.3	3.5	5.9	7	<0.1	0.8	0.7	29	0.04	0.062
1466649	Soil				1.3	42.7	6.7	95	0.2	29.5	10.4	439	3.86	11.4	0.8	<0.5	6.7	8	0.2	0.2	<0.1	51	0.15	0.064
1466640	Soil				1.6	38.8	33.6	160	0.1	24.5	11.8	509	4.05	44.7	0.4	0.6	3.7	7	0.3	0.2	0.3	64	0.18	0.073
1466628	Soil				1.5	52.8	123.0	230	0.6	18.7	9.9	388	3.22	13.8	0.6	1.6	2.8	8	0.5	0.7	1.2	65	0.12	0.048
1466630	Soil				1.0	16.1	25.2	62	<0.1	17.9	8.4	235	2.95	12.0	0.5	3.7	4.0	9	0.3	0.7	0.2	59	0.10	0.023
1466635	Soil				1.7	27.8	51.3	244	0.7	18.4	12.7	899	3.41	54.4	0.4	2.0	2.5	7	0.7	0.7	0.3	72	0.09	0.058
1466636	Soil				1.1	25.5	26.9	69	<0.1	18.2	7.6	236	2.78	11.7	0.8	4.3	2.8	9	0.3	0.6	0.3	60	0.10	0.035
1466634	Soil				1.5	38.7	20.8	156	0.1	29.1	13.0	362	3.52	27.5	0.7	2.9	5.7	6	0.6	0.4	0.2	55	0.08	0.029
1466637	Soil				1.2	20.9	19.9	84	0.2	22.7	9.9	335	3.16	12.9	0.5	1.1	3.0	10	0.4	0.7	0.2	68	0.12	0.036
1466730	Soil				1.1	20.8	32.0	213	<0.1	4.4	3.6	306	1.68	3.2	1.2	2.3	5.3	7	0.9	0.6	0.1	9	0.11	0.024
1444302	Soil				0.4	9.2	16.5	121	<0.1	49.2	13.4	567	3.93	3.1	0.7	2.3	6.4	12	<0.1	0.1	0.2	62	0.20	0.062
1466726	Soil				1.1	18.3	6.4	95	<0.1	20.1	9.8	363	2.91	4.3	1.4	0.8	8.5	16	<0.1	0.1	<0.1	40	0.22	0.060
1466729	Soil				3.4	50.0	231.0	307	0.3	8.2	3.4	401	2.99	10.3	1.6	4.0	9.8	22	0.3	0.7	0.4	23	0.10	0.037
1466732	Soil				0.7	16.2	53.3	41	<0.1	13.9	5.4	161	1.40	5.5	1.4	5.4	14.6	8	0.1	0.4	0.2	28	0.08	0.015
1444306	Soil				1.4	24.6	12.8	56	0.9	23.7	13.3	384	3.14	11.9	1.4	4.4	5.8	10	0.1	0.7	0.2	64	0.08	0.035
1466642	Soil				1.0	14.9	12.8	62	0.3	16.4	8.3	255	3.10	10.9	0.4	2.1	3.0	8	0.2	0.4	0.2	66	0.11	0.039
1466728	Soil				0.7	53.7	25.2	106	0.2	12.2	5.1	298	2.29	5.1	2.9	2.2	10.7	23	<0.1	0.3	0.2	24	0.20	0.040
1466644	Soil				1.0	29.0	15.9	64	0.3	25.8	11.1	278	3.01	11.6	0.5	3.8	5.2	10	0.2	0.6	0.2	61	0.13	0.031



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	Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1546403	Soil	4	81	1.57	160	0.054	1	1.67	0.005	0.05	<0.1	0.02	6.4	<0.1	<0.05	4	<0.5
1546411	Soil	10	90	0.61	187	0.040	<1	1.68	0.008	0.03	0.1	0.02	3.0	0.1	<0.05	5	<0.5
1466633	Soil	12	33	0.80	130	0.047	<1	2.03	0.005	0.05	0.2	0.02	4.1	0.1	<0.05	6	<0.5
1466643	Soil	10	30	0.97	139	0.014	<1	2.21	0.002	0.03	0.1	0.02	3.2	<0.1	<0.05	8	<0.5
1546401	Soil	6	11	1.50	57	0.017	<1	1.84	0.003	0.01	<0.1	<0.01	9.7	<0.1	<0.05	7	<0.5
1546407	Soil	9	10	0.80	379	0.015	<1	1.56	0.003	0.06	<0.1	0.05	6.2	<0.1	<0.05	5	<0.5
1466632	Soil	9	20	0.91	89	0.022	<1	2.08	0.005	0.04	0.1	<0.01	2.8	<0.1	<0.05	6	<0.5
1466631	Soil	12	40	0.99	106	0.025	<1	2.17	0.004	0.04	0.1	0.02	4.3	<0.1	<0.05	6	<0.5
1466641	Soil	10	36	1.52	89	0.031	<1	2.25	0.002	0.03	0.1	<0.01	3.9	<0.1	<0.05	7	<0.5
1466646	Soil	19	25	1.36	68	0.024	<1	1.99	0.002	0.02	<0.1	0.01	2.9	<0.1	<0.05	5	<0.5
1466645	Soil	13	26	0.64	158	0.024	<1	1.87	0.004	0.03	0.1	0.01	2.9	<0.1	<0.05	6	<0.5
1466629	Soil	14	31	0.68	134	0.035	<1	1.95	0.005	0.04	0.2	0.03	3.3	0.1	<0.05	5	<0.5
1466647	Soil	19	19	0.95	84	0.032	<1	1.76	0.003	0.03	0.1	0.01	2.1	<0.1	<0.05	4	2.2
1466649	Soil	10	33	1.49	96	0.073	<1	2.10	0.002	0.08	0.1	<0.01	2.8	0.1	<0.05	5	<0.5
1466640	Soil	11	36	1.85	45	0.040	<1	2.36	0.002	0.03	0.2	<0.01	3.6	<0.1	<0.05	6	<0.5
1466628	Soil	10	33	0.73	99	0.026	1	2.02	0.005	0.05	0.2	0.03	3.4	0.2	<0.05	6	0.8
1466630	Soil	12	31	0.48	115	0.040	<1	1.99	0.006	0.04	0.2	0.02	3.7	0.1	<0.05	5	<0.5
1466635	Soil	11	33	0.71	146	0.020	<1	2.05	0.005	0.04	0.1	0.03	3.5	0.1	<0.05	7	<0.5
1466636	Soil	15	29	0.50	174	0.034	2	1.86	0.007	0.03	0.2	0.02	3.5	0.1	<0.05	6	<0.5
1466634	Soil	15	30	1.05	122	0.030	2	2.08	0.004	0.03	0.1	0.02	3.7	<0.1	<0.05	5	<0.5
1466637	Soil	11	33	0.66	171	0.049	2	2.08	0.006	0.04	0.2	0.02	3.6	0.1	<0.05	6	<0.5
1466730	Soil	24	9	0.94	71	0.052	2	1.24	0.002	0.02	0.1	0.01	2.7	<0.1	<0.05	3	<0.5
1444302	Soil	26	105	2.77	159	0.122	1	2.93	0.002	0.20	<0.1	<0.01	6.4	0.2	<0.05	8	<0.5
1466726	Soil	34	78	1.81	236	0.127	1	1.94	0.004	0.32	<0.1	<0.01	3.7	0.3	<0.05	6	<0.5
1466729	Soil	23	23	1.51	159	0.021	1	1.71	0.006	0.05	<0.1	0.02	5.1	<0.1	<0.05	5	0.8
1466732	Soil	23	17	0.29	276	0.030	1	1.00	0.005	0.04	0.4	0.02	2.1	<0.1	<0.05	2	<0.5
1444306	Soil	15	37	0.53	234	0.048	2	2.34	0.009	0.05	0.2	0.04	5.2	0.1	<0.05	6	<0.5
1466642	Soil	11	30	0.67	152	0.027	<1	1.91	0.004	0.04	0.1	0.02	3.1	0.1	<0.05	7	<0.5
1466728	Soil	27	20	1.07	239	0.082	2	1.30	0.004	0.16	0.1	<0.01	3.5	0.2	<0.05	4	0.7
1466644	Soil	14	33	0.73	196	0.038	1	2.11	0.006	0.05	0.2	0.02	3.8	0.1	<0.05	6	<0.5



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	Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1444309	Soil	1.0	10.0	9.6	60	0.2	12.8	5.7	186	2.56	9.6	0.5	1.6	4.8	6	<0.1	0.7	0.1	49	0.06	0.030
1444301	Soil	1.2	14.6	11.9	63	0.2	17.1	12.4	448	2.84	11.0	0.5	2.9	4.6	10	0.1	0.7	0.2	59	0.12	0.035
1466731	Soil	2.5	18.4	118.8	42	0.5	4.7	3.0	54	1.80	3.4	3.9	2.0	14.4	6	0.2	0.7	0.2	8	<0.01	0.035
1466733	Soil	1.3	17.5	41.1	64	0.2	10.7	5.0	184	1.72	7.4	1.6	3.1	9.5	13	<0.1	0.4	0.2	34	0.11	0.017
1444310	Soil	1.4	14.2	76.9	178	0.3	10.7	7.3	222	2.47	101.0	1.1	18.7	9.6	65	0.2	0.9	0.3	16	0.04	0.043
1444303	Soil	0.8	8.6	9.8	44	0.2	10.2	4.6	185	2.34	7.0	0.3	<0.5	2.0	9	<0.1	0.4	0.2	57	0.09	0.055
1466727	Soil	0.7	13.0	97.2	140	<0.1	13.6	7.0	352	2.35	3.3	1.0	<0.5	8.4	15	0.3	0.1	<0.1	27	0.19	0.060
1466648	Soil	1.0	36.0	14.6	122	0.3	24.9	12.0	412	3.22	8.8	0.6	2.5	4.0	8	0.2	0.4	0.2	68	0.10	0.049
1480226	Soil	0.8	11.3	10.4	34	<0.1	3.9	3.5	118	1.32	4.9	2.2	4.2	10.5	8	<0.1	0.5	0.1	15	0.07	0.018
1444324	Soil	0.7	18.0	10.2	47	<0.1	14.7	6.1	161	2.10	8.0	1.1	4.3	7.6	8	<0.1	0.6	0.1	41	0.06	0.014
1444307	Soil	0.6	31.4	13.7	71	<0.1	25.7	10.0	331	3.17	41.7	0.7	1.4	5.2	7	<0.1	0.4	0.1	57	0.07	0.029
1444311	Soil	0.3	12.0	56.0	80	<0.1	6.1	3.4	210	1.11	3.5	1.0	0.9	14.6	4	<0.1	0.2	0.4	19	0.11	0.019
1480230	Soil	0.4	10.8	10.7	60	<0.1	4.6	3.1	214	2.11	4.8	0.8	<0.5	10.1	11	<0.1	0.2	<0.1	18	0.09	0.051
1444323	Soil	0.3	7.2	4.8	34	<0.1	5.1	4.3	130	0.95	1.8	1.0	<0.5	4.8	7	<0.1	0.2	<0.1	14	0.06	0.009
1480228	Soil	0.4	20.4	5.3	61	<0.1	10.7	11.8	311	3.41	4.7	0.7	2.7	2.8	15	<0.1	0.8	<0.1	69	0.24	0.039
1444308	Soil	1.1	20.5	13.7	60	0.3	19.8	8.5	250	3.16	23.0	0.5	2.5	3.9	7	0.1	0.7	0.2	59	0.07	0.032
1444322	Soil	0.8	15.3	12.6	36	<0.1	11.0	4.7	144	1.60	4.7	2.2	3.2	12.9	7	<0.1	0.5	0.2	28	0.06	0.009
1480229	Soil	0.8	9.0	12.8	68	0.2	10.0	4.6	239	2.79	8.2	0.6	3.6	6.6	14	0.1	0.6	0.2	46	0.14	0.074
1444325	Soil	0.8	19.0	10.6	48	<0.1	14.5	5.9	163	2.08	7.9	1.2	1.7	8.5	8	<0.1	0.6	0.1	40	0.06	0.013
1444304	Soil	0.9	37.9	11.3	88	<0.1	23.0	9.0	453	3.78	4.6	1.8	0.7	6.8	14	0.1	0.2	<0.1	53	0.07	0.040
1444319	Soil	0.8	8.9	6.4	20	<0.1	5.6	2.9	81	1.19	3.3	1.7	1.8	19.2	4	<0.1	0.3	0.1	15	0.03	0.009
1444314	Soil	1.3	13.6	12.1	52	<0.1	15.6	8.3	262	2.84	10.8	0.7	1.4	5.3	9	<0.1	0.7	0.3	62	0.08	0.042
1480227	Soil	0.4	5.2	8.2	27	<0.1	4.0	3.6	558	1.16	4.2	0.9	1.1	9.2	6	<0.1	0.4	0.2	21	0.05	0.056
1444305	Soil	0.6	16.3	13.7	63	<0.1	16.0	7.6	271	2.26	8.0	0.9	2.7	7.6	6	<0.1	0.3	0.1	30	0.07	0.032
1545140	Soil	0.2	70.6	2.3	65	<0.1	65.9	22.4	678	5.15	3.9	0.1	1.3	0.7	4	<0.1	0.2	<0.1	178	0.10	0.031
1545139	Soil	1.4	46.4	7.7	61	0.2	24.4	9.6	552	3.09	19.8	0.5	6.6	4.4	11	<0.1	0.7	0.2	56	0.16	0.035
1444312	Soil	1.2	8.8	5.9	28	<0.1	5.5	3.1	99	1.39	3.7	1.1	<0.5	14.4	4	<0.1	0.3	0.4	17	0.03	0.018
1444316	Soil	0.8	14.9	12.9	48	<0.1	11.3	5.7	209	1.83	7.0	1.3	1.3	7.6	11	<0.1	0.6	0.2	33	0.09	0.019
1545141	Soil	1.1	43.0	8.6	57	<0.1	20.1	11.0	473	3.05	35.6	0.5	3.0	3.4	13	<0.1	0.8	0.2	54	0.19	0.034
1545142	Soil	0.5	65.5	4.1	58	<0.1	22.7	11.7	522	3.18	322.8	0.4	32.8	2.7	9	<0.1	2.1	<0.1	61	0.08	0.020



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	Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1444309	Soil	16	25	0.47	165	0.034	2	1.82	0.004	0.04	0.1	0.02	2.5	0.1	<0.05	5	<0.5
1444301	Soil	14	30	0.41	265	0.042	1	1.75	0.006	0.06	0.1	0.01	2.9	0.1	<0.05	6	<0.5
1466731	Soil	32	7	0.05	131	0.031	<1	0.62	0.008	0.05	<0.1	0.02	0.9	<0.1	<0.05	1	<0.5
1466733	Soil	26	21	0.38	473	0.035	1	1.06	0.006	0.04	0.2	0.03	3.3	<0.1	<0.05	3	<0.5
1444310	Soil	21	14	0.35	213	0.005	<1	0.83	0.009	0.12	<0.1	<0.01	1.3	<0.1	0.14	2	<0.5
1444303	Soil	10	24	0.38	155	0.053	<1	1.25	0.005	0.08	0.1	0.01	2.1	0.1	<0.05	6	<0.5
1466727	Soil	18	31	1.21	253	0.090	<1	1.41	0.003	0.48	<0.1	<0.01	3.0	0.4	<0.05	5	<0.5
1466648	Soil	10	35	1.17	148	0.045	1	2.17	0.004	0.05	0.2	0.01	3.7	0.1	<0.05	7	<0.5
1480226	Soil	35	6	0.16	189	0.013	<1	0.65	0.002	0.07	<0.1	0.01	2.4	<0.1	<0.05	3	<0.5
1444324	Soil	23	22	0.37	198	0.039	<1	1.36	0.004	0.05	0.1	<0.01	3.0	<0.1	<0.05	4	<0.5
1444307	Soil	17	51	1.01	135	0.048	1	1.82	0.004	0.08	0.1	0.02	7.0	0.1	<0.05	6	<0.5
1444311	Soil	36	11	0.32	160	0.029	<1	0.93	0.003	0.05	<0.1	0.01	1.3	0.1	<0.05	2	<0.5
1480230	Soil	17	7	0.31	197	0.059	<1	1.08	0.004	0.27	0.1	0.02	1.9	0.2	<0.05	5	<0.5
1444323	Soil	16	5	0.28	50	0.045	<1	0.71	0.002	0.09	<0.1	<0.01	1.1	0.1	<0.05	2	<0.5
1480228	Soil	10	18	0.87	322	0.067	<1	1.73	0.006	0.22	0.1	<0.01	6.1	0.1	<0.05	6	<0.5
1444308	Soil	12	30	0.65	166	0.037	1	2.06	0.005	0.05	0.1	0.02	3.0	0.2	<0.05	6	<0.5
1444322	Soil	41	17	0.27	358	0.028	<1	0.99	0.005	0.06	0.1	0.03	3.4	<0.1	<0.05	3	<0.5
1480229	Soil	13	18	0.40	249	0.044	<1	1.56	0.005	0.19	0.2	<0.01	3.1	0.2	<0.05	6	<0.5
1444325	Soil	25	22	0.37	191	0.041	<1	1.33	0.004	0.06	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5
1444304	Soil	21	30	1.92	99	0.172	<1	2.17	0.003	0.12	<0.1	0.01	3.1	<0.1	<0.05	6	0.8
1444319	Soil	59	11	0.23	239	0.018	<1	0.88	0.002	0.05	<0.1	<0.01	2.0	<0.1	<0.05	3	<0.5
1444314	Soil	12	31	0.45	187	0.048	1	2.07	0.005	0.05	0.2	0.03	3.0	0.2	<0.05	6	<0.5
1480227	Soil	25	7	0.15	105	0.018	<1	0.61	0.002	0.08	0.2	0.01	1.4	0.1	<0.05	2	<0.5
1444305	Soil	15	22	0.70	109	0.055	<1	1.45	0.003	0.13	<0.1	<0.01	2.5	0.1	<0.05	4	<0.5
1545140	Soil	6	162	3.24	68	0.022	<1	3.70	0.003	<0.01	<0.1	<0.01	20.9	<0.1	<0.05	12	<0.5
1545139	Soil	16	30	0.63	139	0.031	1	2.10	0.005	0.05	0.1	0.02	4.1	<0.1	<0.05	6	<0.5
1444312	Soil	26	10	0.25	212	0.010	<1	1.32	0.002	0.06	<0.1	0.01	1.2	<0.1	<0.05	3	<0.5
1444316	Soil	16	20	0.43	158	0.059	<1	1.42	0.004	0.07	0.1	<0.01	2.4	0.1	<0.05	4	<0.5
1545141	Soil	14	29	0.50	184	0.031	1	1.92	0.007	0.07	0.1	0.03	3.6	0.1	<0.05	5	<0.5
1545142	Soil	19	38	0.86	182	0.010	<1	1.94	0.003	0.05	<0.1	0.02	6.0	<0.1	<0.05	7	<0.5



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1444318	Soil	0.9	21.3	10.3	42	<0.1	14.1	6.1	173	2.01	8.0	2.4	1.6	8.7	11	<0.1	0.7	0.2	40	0.09	0.012
1444315	Soil	0.3	7.2	7.5	22	<0.1	6.8	3.6	101	1.01	3.6	1.3	1.3	7.7	7	<0.1	0.3	<0.1	19	0.05	0.010
1545145	Soil	0.1	69.5	1.4	32	<0.1	76.2	22.7	310	2.43	7.2	<0.1	1.1	0.6	12	<0.1	0.4	<0.1	45	0.37	0.042
1545147	Soil	0.3	62.7	1.0	65	<0.1	21.0	28.0	600	4.60	3.0	<0.1	1.3	0.4	14	<0.1	0.7	<0.1	109	0.32	0.066
1444313	Soil	0.7	6.9	12.1	26	<0.1	6.6	4.5	113	1.20	5.2	1.9	<0.5	14.1	5	<0.1	0.3	0.2	15	0.04	0.012
1444317	Soil	0.2	4.3	11.8	23	<0.1	2.5	1.9	109	0.63	<0.5	1.9	1.6	14.5	5	<0.1	0.2	<0.1	7	0.02	0.006
1545144	Soil	0.1	142.2	0.8	49	<0.1	75.4	32.8	697	3.41	5.8	<0.1	10.9	0.4	7	<0.1	0.4	<0.1	72	0.33	0.051
1545146	Soil	0.3	141.1	1.0	65	<0.1	22.8	23.2	500	3.99	1.9	0.1	2.5	0.6	21	<0.1	0.1	<0.1	110	0.42	0.072
1444321	Soil	1.5	3.9	6.4	4	<0.1	1.1	0.5	9	0.53	0.8	1.2	<0.5	18.5	<1	<0.1	0.1	0.6	4	<0.01	0.006
1444320	Soil	1.6	3.1	4.1	6	<0.1	2.1	1.5	50	1.42	2.1	0.4	<0.5	6.7	2	<0.1	0.2	0.5	11	0.01	0.016
1545129	Soil	1.0	39.2	5.5	31	<0.1	32.0	16.5	178	2.44	8.1	0.3	<0.5	1.5	13	<0.1	0.6	0.1	54	0.26	0.038
1545131	Soil	1.1	19.7	7.8	48	<0.1	28.4	14.3	243	3.11	9.7	0.3	<0.5	1.8	12	0.1	0.6	0.3	75	0.22	0.038
1545135	Soil	0.8	27.2	4.9	48	0.1	34.9	15.6	619	3.79	161.5	0.2	1.9	1.0	11	0.1	2.0	0.1	107	0.27	0.033
1545143	Soil	0.3	29.9	2.7	34	<0.1	37.6	14.2	272	2.09	4.1	0.1	<0.5	0.5	7	<0.1	0.2	<0.1	44	0.22	0.036
1545127	Soil	0.6	52.4	4.9	39	<0.1	25.0	12.7	207	2.19	6.2	0.4	0.8	1.8	8	<0.1	0.3	<0.1	51	0.15	0.026
1545132	Soil	0.2	34.6	1.1	15	<0.1	65.8	12.3	125	1.00	1.7	0.2	<0.5	0.6	6	<0.1	0.2	<0.1	20	0.17	0.005
1545134	Soil	0.2	7.1	1.9	10	<0.1	20.8	6.0	110	1.09	4.3	0.1	<0.5	0.7	5	<0.1	0.3	<0.1	26	0.14	0.007
1545137	Soil	0.3	28.7	2.4	33	<0.1	284.9	23.1	363	2.56	6.4	0.2	1.3	1.1	5	<0.1	0.6	<0.1	56	0.10	0.010
1545128	Soil	0.3	18.4	3.7	32	<0.1	178.2	24.3	336	3.05	6.1	0.3	1.0	1.5	5	<0.1	0.3	<0.1	70	0.10	0.017
1545122	Soil	0.8	59.3	7.4	61	<0.1	50.7	17.8	406	3.03	11.0	1.0	2.8	3.6	13	<0.1	0.5	0.1	72	0.21	0.029
1545133	Soil	0.6	15.1	6.1	33	<0.1	29.3	10.3	205	2.56	20.9	0.2	<0.5	1.5	11	<0.1	0.4	0.1	76	0.27	0.011
1545138	Soil	0.7	34.6	4.6	71	0.1	79.2	25.5	1191	4.46	22.0	0.2	<0.5	0.7	9	<0.1	0.4	0.1	123	0.16	0.073
1545118	Soil	0.6	19.9	9.4	76	<0.1	15.8	8.0	329	2.65	28.1	1.4	5.6	5.4	14	<0.1	0.4	<0.1	40	0.18	0.050
1545130	Soil	0.7	30.9	5.0	34	<0.1	64.8	13.9	225	2.68	7.9	0.2	<0.5	1.4	8	<0.1	0.5	<0.1	80	0.12	0.015
1545136	Soil	0.2	34.7	0.8	17	<0.1	142.0	20.0	225	1.88	2.7	<0.1	0.7	0.2	8	<0.1	0.3	<0.1	44	0.30	0.011
1545120	Soil	0.6	23.7	25.0	87	<0.1	16.0	7.6	299	2.52	8.2	0.9	1.9	4.5	11	0.1	0.3	0.2	44	0.11	0.034
1545124	Soil	0.4	65.0	4.5	58	<0.1	49.8	28.6	623	3.22	4.8	0.3	<0.5	0.7	10	0.2	0.2	<0.1	77	0.23	0.050
1545123	Soil	0.4	84.4	4.1	66	<0.1	62.0	27.6	781	3.98	5.1	0.3	<0.5	0.9	10	0.1	0.2	<0.1	122	0.30	0.055
1545121	Soil	0.7	43.6	17.7	77	<0.1	82.9	27.0	762	4.04	3.9	0.5	<0.5	2.8	12	0.2	0.3	<0.1	80	0.20	0.063
1545119	Soil	0.5	15.8	8.0	71	<0.1	14.2	7.3	308	2.43	9.4	0.9	1.3	4.8	14	0.2	0.3	<0.1	37	0.17	0.055



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1444318	Soil	25	24	0.36	292	0.054	<1	1.26	0.008	0.05	0.1	0.03	4.6	<0.1	<0.05	4	<0.5
1444315	Soil	21	11	0.22	84	0.041	1	0.82	0.002	0.08	<0.1	<0.01	1.8	<0.1	<0.05	2	<0.5
1545145	Soil	2	161	2.16	58	0.066	<1	1.94	0.003	<0.01	<0.1	<0.01	4.4	<0.1	<0.05	3	<0.5
1545147	Soil	2	18	1.88	371	0.097	<1	2.48	0.002	0.34	<0.1	<0.01	4.0	0.1	<0.05	6	<0.5
1444313	Soil	31	9	0.15	145	0.010	<1	0.90	0.003	0.08	<0.1	<0.01	1.7	<0.1	<0.05	2	<0.5
1444317	Soil	35	4	0.09	88	0.013	<1	0.41	0.002	0.10	<0.1	<0.01	1.4	<0.1	<0.05	2	<0.5
1545144	Soil	2	173	2.24	37	0.071	<1	2.09	0.002	0.01	<0.1	<0.01	6.0	<0.1	<0.05	5	<0.5
1545146	Soil	2	22	1.84	329	0.114	<1	2.16	0.003	0.22	<0.1	0.02	3.8	0.1	<0.05	6	<0.5
1444321	Soil	31	2	0.02	44	0.004	<1	0.30	0.001	0.06	<0.1	<0.01	0.9	<0.1	<0.05	<1	<0.5
1444320	Soil	6	5	0.07	124	0.011	<1	0.46	0.003	0.04	<0.1	<0.01	0.6	<0.1	<0.05	2	<0.5
1545129	Soil	7	53	0.85	104	0.117	1	1.78	0.005	0.03	0.1	<0.01	2.8	<0.1	<0.05	5	<0.5
1545131	Soil	8	53	0.91	115	0.159	1	2.11	0.004	0.04	<0.1	0.03	2.6	0.2	<0.05	6	<0.5
1545135	Soil	6	87	1.32	124	0.095	<1	2.24	0.004	0.05	<0.1	0.03	5.6	0.1	<0.05	7	<0.5
1545143	Soil	3	83	1.12	33	0.111	<1	1.36	0.003	0.02	<0.1	<0.01	1.4	<0.1	<0.05	4	<0.5
1545127	Soil	6	54	0.80	76	0.099	<1	1.61	0.005	0.02	<0.1	0.01	2.7	<0.1	<0.05	4	<0.5
1545132	Soil	3	129	1.30	26	0.110	<1	1.23	0.003	<0.01	<0.1	<0.01	2.3	<0.1	<0.05	2	<0.5
1545134	Soil	4	27	0.66	92	0.004	1	1.33	0.003	0.05	<0.1	<0.01	2.1	0.1	<0.05	3	<0.5
1545137	Soil	5	487	2.08	77	0.068	<1	2.16	0.003	0.02	<0.1	<0.01	4.2	<0.1	<0.05	5	<0.5
1545128	Soil	5	455	2.46	71	0.080	<1	2.54	0.003	0.02	<0.1	<0.01	5.3	<0.1	<0.05	6	<0.5
1545122	Soil	13	99	1.33	177	0.101	1	2.11	0.006	0.04	0.1	0.03	5.9	<0.1	<0.05	6	<0.5
1545133	Soil	7	58	1.06	103	0.088	<1	1.83	0.004	0.03	0.1	<0.01	3.5	0.1	<0.05	6	<0.5
1545138	Soil	5	149	2.21	140	0.066	<1	2.55	0.004	0.04	<0.1	0.02	7.3	<0.1	<0.05	11	<0.5
1545118	Soil	22	34	0.94	209	0.048	<1	1.61	0.005	0.09	0.1	<0.01	4.9	0.1	<0.05	5	<0.5
1545130	Soil	6	167	1.71	70	0.057	<1	2.49	0.005	0.02	0.1	0.01	6.3	<0.1	<0.05	7	<0.5
1545136	Soil	<1	347	3.07	64	0.048	<1	2.14	0.002	0.02	<0.1	<0.01	8.3	<0.1	<0.05	4	<0.5
1545120	Soil	18	46	0.93	124	0.057	<1	1.70	0.005	0.06	<0.1	0.01	4.0	0.1	<0.05	5	<0.5
1545124	Soil	4	118	1.79	75	0.104	<1	2.05	0.003	0.02	<0.1	<0.01	3.9	<0.1	<0.05	5	<0.5
1545123	Soil	4	162	2.47	180	0.104	<1	2.63	0.005	0.08	<0.1	<0.01	9.1	<0.1	<0.05	8	<0.5
1545121	Soil	6	162	2.30	56	0.111	<1	2.33	0.003	0.03	<0.1	<0.01	5.2	<0.1	<0.05	7	<0.5
1545119	Soil	20	37	0.94	186	0.043	<1	1.47	0.004	0.09	<0.1	<0.01	4.7	0.1	<0.05	5	<0.5



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CERTIFICATE OF ANALYSIS

WHI17000653.1

	Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1545126	Soil	0.5	93.9	1.6	58	<0.1	46.9	27.4	717	3.44	5.8	0.1	<0.5	0.3	7	<0.1	0.1	<0.1	79	0.27	0.085
1545125	Soil	0.5	40.3	4.6	42	<0.1	34.2	17.2	389	2.29	3.9	0.3	1.3	0.3	7	0.1	0.2	0.1	54	0.15	0.051
1545117	Soil	0.4	23.3	11.2	77	<0.1	19.4	11.0	447	3.04	24.0	0.9	1.5	6.3	11	<0.1	0.3	0.2	55	0.17	0.041



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CERTIFICATE OF ANALYSIS

WHI17000653.1

	Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1545126	Soil	2	99	2.08	42	0.093	1	2.03	0.003	0.02	<0.1	<0.01	4.0	<0.1	<0.05	6	<0.5	<0.2
1545125	Soil	5	80	1.21	68	0.049	2	1.53	0.004	0.02	<0.1	<0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
1545117	Soil	21	36	1.60	227	0.055	<1	2.04	0.004	0.14	<0.1	<0.01	7.0	0.2	<0.05	6	<0.5	<0.2



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
1546378	Soil	3.2	13.6	196.9	193	0.2	6.0	4.3	327	1.63	3.6	1.8	0.9	19.2	15	0.6	1.5	1.0	14	0.13	0.031
REP 1546378	QC	3.1	13.9	192.2	192	0.2	5.8	4.4	325	1.68	3.7	1.7	0.9	19.3	15	0.7	1.5	1.0	14	0.13	0.031
1442304	Soil	1.1	38.7	19.4	73	<0.1	24.7	11.5	486	3.36	77.4	0.8	3.5	6.4	6	0.2	0.4	0.1	43	0.08	0.038
REP 1442304	QC	1.1	38.9	19.8	75	<0.1	24.9	11.7	504	3.34	77.8	0.8	3.0	6.4	6	0.2	0.4	0.1	41	0.08	0.037
1546414	Soil	0.3	87.4	2.3	78	<0.1	34.2	21.0	1286	4.85	2.3	0.2	4.8	2.1	6	<0.1	0.3	<0.1	59	0.32	0.097
REP 1546414	QC	0.3	86.2	2.2	76	<0.1	34.3	21.0	1270	4.80	2.3	0.2	5.7	2.0	5	<0.1	0.2	<0.1	60	0.31	0.089
1466731	Soil	2.5	18.4	118.8	42	0.5	4.7	3.0	54	1.80	3.4	3.9	2.0	14.4	6	0.2	0.7	0.2	8	<0.01	0.035
REP 1466731	QC	2.6	17.7	118.8	40	0.5	4.6	2.8	52	1.74	3.4	3.8	1.0	14.1	5	0.2	0.6	0.2	7	<0.01	0.036
1444321	Soil	1.5	3.9	6.4	4	<0.1	1.1	0.5	9	0.53	0.8	1.2	<0.5	18.5	<1	<0.1	0.1	0.6	4	<0.01	0.006
REP 1444321	QC	1.4	4.1	6.5	4	<0.1	1.0	0.6	9	0.55	0.7	1.3	<0.5	18.1	<1	<0.1	0.1	0.6	4	<0.01	0.006
Reference Materials																					
STD DS11	Standard	13.2	144.7	133.3	323	1.6	74.5	13.3	944	2.93	41.5	2.6	67.7	7.3	62	2.5	9.0	10.9	48	0.97	0.069
STD DS11	Standard	13.8	148.9	137.6	340	1.7	76.8	14.0	1041	3.06	42.3	2.6	85.4	8.0	68	2.0	10.1	11.9	47	1.07	0.070
STD DS11	Standard	13.7	147.4	133.2	330	1.6	74.9	13.1	1004	3.05	40.5	2.4	71.4	7.4	65	2.5	8.8	11.3	49	0.98	0.070
STD DS11	Standard	14.6	151.3	135.4	339	1.6	79.5	13.6	962	3.08	40.7	2.6	65.3	8.0	69	2.2	8.6	11.4	51	1.08	0.072
STD DS11	Standard	13.9	147.5	137.7	349	1.7	78.9	13.7	948	2.96	42.1	2.6	122.0	7.4	63	2.4	9.0	11.5	51	1.03	0.075
STD DS11	Standard	14.1	148.4	136.3	339	1.8	78.5	13.7	1012	3.14	41.3	2.6	78.9	7.5	68	2.3	8.4	11.3	53	1.04	0.070
STD OXC129	Standard	1.2	26.0	5.9	39	<0.1	73.3	18.8	389	2.96	0.6	0.7	195.2	1.8	177	<0.1	<0.1	<0.1	51	0.63	0.099
STD OXC129	Standard	1.3	26.7	6.5	41	<0.1	79.6	20.4	423	3.04	<0.5	0.7	209.7	1.9	188	<0.1	<0.1	<0.1	49	0.67	0.100
STD OXC129	Standard	1.1	27.4	6.0	41	<0.1	73.9	19.1	405	2.91	0.7	0.6	196.3	1.8	174	<0.1	<0.1	0.1	50	0.65	0.102
STD OXC129	Standard	1.2	28.8	6.4	43	<0.1	79.9	20.6	421	3.01	<0.5	0.7	203.8	2.0	204	<0.1	<0.1	<0.1	56	0.76	0.106
STD OXC129	Standard	1.2	26.2	6.1	42	<0.1	74.1	19.6	387	2.86	<0.5	0.7	196.8	1.7	180	<0.1	<0.1	<0.1	51	0.61	0.104
STD OXC129	Standard	1.2	26.5	6.1	42	<0.1	78.5	20.3	397	3.07	<0.5	0.7	196.9	1.7	190	<0.1	<0.1	<0.1	52	0.69	0.099
STD OXC129 Expected		1.3	28	6.3	42.9		79.5	20.3	421	3.065	0.6	0.72	195	1.9					51	0.665	0.102
STD DS11 Expected		14.6	156	138	345	1.71	81.9	14.2	1055	3.2082	42.8	2.59	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	4	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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QUALITY CONTROL REPORT

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Method		AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte		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		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
1546378	Soil	46	13	0.33	196	0.015	<1	0.66	0.004	0.10	0.2	0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
REP 1546378	QC	46	13	0.32	193	0.015	<1	0.65	0.004	0.09	0.2	<0.01	2.0	0.1	<0.05	2	0.6	<0.2
1442304	Soil	23	23	1.07	105	0.027	<1	1.79	0.004	0.06	<0.1	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
REP 1442304	QC	23	22	1.03	106	0.026	<1	1.79	0.003	0.06	<0.1	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
1546414	Soil	11	38	1.84	163	0.010	<1	2.60	0.002	0.03	<0.1	0.03	9.4	<0.1	<0.05	6	<0.5	<0.2
REP 1546414	QC	10	39	1.76	156	0.009	<1	2.59	0.002	0.03	<0.1	0.03	9.0	<0.1	<0.05	5	<0.5	<0.2
1466731	Soil	32	7	0.05	131	0.031	<1	0.62	0.008	0.05	<0.1	0.02	0.9	<0.1	<0.05	1	<0.5	<0.2
REP 1466731	QC	32	7	0.05	135	0.029	<1	0.63	0.007	0.05	<0.1	0.01	0.9	<0.1	<0.05	1	0.5	<0.2
1444321	Soil	31	2	0.02	44	0.004	<1	0.30	0.001	0.06	<0.1	<0.01	0.9	<0.1	<0.05	<1	<0.5	<0.2
REP 1444321	QC	31	2	0.02	43	0.004	<1	0.30	0.001	0.06	<0.1	<0.01	0.9	<0.1	<0.05	<1	<0.5	<0.2
Reference Materials																		
STD DS11	Standard	18	57	0.81	355	0.088	7	1.07	0.076	0.38	3.2	0.26	3.1	4.9	0.27	5	1.9	4.6
STD DS11	Standard	19	58	0.86	350	0.093	8	1.12	0.076	0.40	3.2	0.27	3.1	5.0	0.27	5	2.1	4.9
STD DS11	Standard	18	58	0.80	360	0.090	7	1.03	0.067	0.37	3.0	0.28	3.3	4.8	0.26	4	2.2	4.6
STD DS11	Standard	20	59	0.82	381	0.097	7	1.16	0.077	0.40	3.0	0.23	3.6	4.9	0.26	5	2.3	4.5
STD DS11	Standard	18	58	0.84	377	0.092	7	1.18	0.072	0.40	3.2	0.28	3.2	4.8	0.25	5	2.3	4.6
STD DS11	Standard	19	60	0.83	371	0.093	6	1.13	0.074	0.39	2.8	0.25	3.4	5.1	0.25	5	2.4	4.6
STD OXC129	Standard	12	49	1.43	46	0.367	1	1.39	0.582	0.33	<0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	13	50	1.52	48	0.383	2	1.53	0.574	0.35	<0.1	<0.01	1.1	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	12	48	1.47	46	0.375	1	1.41	0.582	0.36	<0.1	<0.01	1.1	0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	13	54	1.56	52	0.404	2	1.64	0.558	0.38	<0.1	<0.01	1.2	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	13	49	1.43	50	0.386	1	1.43	0.569	0.36	<0.1	<0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	12	51	1.51	47	0.394	<1	1.48	0.563	0.36	<0.1	<0.01	0.9	0.1	<0.05	5	<0.5	<0.2
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37			1.1			5.6		
STD DS11 Expected		18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.3	3.4	4.9	0.2835	5.1	1.9	4.56
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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QUALITY CONTROL REPORT

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		AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	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	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	3	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<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	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01



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		AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

Appendix D: Prospecting Location, Description and Assay Certificates

Sample	UTM_E	UTM_N	Map_Datum	sample_type	Lithology1	Lith1_mod	Alteration_Min1	Alt_Min1_Intensity	Alt_Min1_Style
1538708	598815	7089275	NAD83zone7	Float	qtz_chl_msc_scist	Foliated	Chlorite	<20%	Fracture
1538709	598766	7089449	NAD83zone7	Float	msc_qtz_schist	Foliated			
1538710	598813	7089251	NAD83zone7	Subcrop	hydrothermal_vein_	Brecciated	Chlorite	<20%	Vein
1538711	598798	7089236	NAD83zone7	Subcrop	qtz_conglomerate	Brecciated			
1538712	598589	7088857	NAD83zone7	Subcrop	qz_vein_hydrotherm	Brecciated			
1538713	598579	7088859	NAD83zone7	Subcrop	chl_msc_schist	Foliated	Chlorite	Moderate	
1538714	598776	7089183	NAD83zone7	Subcrop	bt_mica_schist	Foliated	Biotite	Moderate	

Sample	Alteration_Min2	Alt_Min2_Intensity	Alt_Min2_Style	Mineral1	Min1_percent	Min1_Style	Mineral2	Min2_percent	Min2_Style
1538708				Galena	5.00%	Patchy	Chalcopyrite	<5%	Patchy
1538709									
1538710	Chlorite								
1538711									
1538712									
1538713									
1538714	Chlorite-sericite	Strong							

Sample	Comments	geologist	date	Map_Datum2	Project	Block	ID	Modified	type	wgt_kg
1538708	Box car mineralizati	JA	20170814		KSD	BUM			Rock	3.33
1538709	Oxidized, limonite p	JA	20170814		KSD	BUM			Rock	0.9
1538710	Limonite, mangane	JA	20170814		KSD	BUM			Rock	4.09
1538711	Chlorite-quartz four	JA	20170814		KSD	BUM			Rock	2.5
1538712	Manganese Dendrit	JA	20170814		KSD	BUM			Rock	3.72
1538713	Pyrite oxidized out,	JA	20170814		KSD	BUM			Rock	1.02
1538714	Biotite replacement	VB	20170814		KSD	BUM			Rock	2.42

Sample	au_ppm	mo_ppm	cu_ppm	pb_ppm	zn_ppm	ag_ppm	ni_ppm	co_ppm	mn_ppm	fe_pct	as_ppm	au_ppb	th_ppm	sr_ppm	cd_ppm	sb_ppm	bi_ppm	v_ppm
1538708	<0.005	1.1	2694.7	861	291	41.1	26.2	37.6	1164	6.57	<0.5	0.6	1.8	21	1.5	0.1	29.5	95
1538709	<0.005	1.7	6	17.9	18	<0.1	1.2	2.8	83	1.71	1.1	<0.5	12.1	5	<0.1	0.2	0.4	3
1538710	<0.005	1.7	320.4	70.6	43	6	1.6	3.6	148	3.77	5.9	<0.5	6	20	0.5	0.3	9	25
1538711	<0.005	1.6	6.7	14.4	38	0.2	17.8	13.6	504	1.77	0.6	<0.5	2.3	11	0.2	0.2	0.8	37
1538712	<0.005	0.5	9.3	22.7	35	0.1	1.6	1	136	0.46	0.7	<0.5	1.1	3	0.3	0.1	<0.1	2
1538713	<0.005	0.6	20.1	35.7	98	<0.1	8.2	9.3	454	2.88	1.7	<0.5	6.9	29	0.5	0.5	0.2	30
1538714	<0.005	0.3	96.7	257.9	133	1.6	5.4	7.2	527	1.52	1.2	<0.5	5.9	15	1.8	0.3	3	21

Sample	ca_pct	p_pct	la_ppm	cr_ppm	mg_pct	ba_ppm	ti_pct	b_ppm	al_pct	na_pct	k_pct	w_ppm	hg_ppm	sc_ppm	tl_ppm	s_pct	ga_ppm	se_ppm
1538708	0.66	0.167	6	122	2.95	71	0.192	<20	3.34	0.013	0.05	0.1	<0.01	11.7	<0.1	<0.05	15	6.6
1538709	<0.01	0.007	9	3	0.03	271	0.002	<20	0.27	0.019	0.19	0.1	<0.01	0.8	<0.1	0.14	1	1
1538710	0.15	0.089	15	2	0.3	106	0.008	<20	0.51	0.078	0.06	<0.1	<0.01	1.6	<0.1	0.09	4	5.2
1538711	0.34	0.047	4	80	1.24	109	0.129	<20	1.21	0.019	0.04	<0.1	<0.01	3.1	<0.1	<0.05	3	<0.5
1538712	0.07	0.007	4	3	0.04	31	0.016	<20	0.06	<0.001	0.01	0.4	<0.01	0.5	<0.1	<0.05	<1	<0.5
1538713	0.89	0.143	17	32	0.6	143	0.15	<20	0.93	0.031	0.28	0.3	<0.01	2.9	0.3	<0.05	4	<0.5
1538714	0.47	0.059	7	6	0.46	156	0.085	<20	0.53	0.016	0.1	0.6	<0.01	1.6	<0.1	<0.05	3	1

Sample	te_ppm
1538708	0.3
1538709	<0.2
1538710	0.6
1538711	<0.2
1538712	<0.2
1538713	<0.2
1538714	<0.2



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Client:

White Gold Corp.

Box 70

Dawson Yukon Y0B 1G0 Canada

Submitted By: Jodie Gibson

Receiving Lab: Canada-Whitehorse

Received: August 22, 2017

Report Date: September 12, 2017

Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000655.1

CLIENT JOB INFORMATION

Project: HUN
Shipment ID: HUN-20170817-001-ROCK
P.O. Number
Number of Samples: 7

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 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.

Invoice To: Ground Truth Exploration Inc.
Box 70
Dawson Yukon Y0B 1G0
Canada

CC: Isaac Fage
Shawn Ryan
Greg Dawson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	7	Crush, split and pulverize 250 g rock to 200 mesh			WHI
FA430	7	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	7	Environmental disposal charge-Fire assay lead waste			VAN
AQ200	7	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	7	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



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



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Report Date: September 12, 2017

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CERTIFICATE OF ANALYSIS

WHI17000655.1

	Method Analyte Unit MDL	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
1538708	Rock	3.33	<0.005	1.1	2694.7	861.0	291	41.1	26.2	37.6	1164	6.57	<0.5	0.6	1.8	21	1.5	0.1	29.5	95	0.66
1538709	Rock	0.90	<0.005	1.7	6.0	17.9	18	<0.1	1.2	2.8	83	1.71	1.1	<0.5	12.1	5	<0.1	0.2	0.4	3	<0.01
1538710	Rock	4.09	<0.005	1.7	320.4	70.6	43	6.0	1.6	3.6	148	3.77	5.9	<0.5	6.0	20	0.5	0.3	9.0	25	0.15
1538711	Rock	2.50	<0.005	1.6	6.7	14.4	38	0.2	17.8	13.6	504	1.77	0.6	<0.5	2.3	11	0.2	0.2	0.8	37	0.34
1538712	Rock	3.72	<0.005	0.5	9.3	22.7	35	0.1	1.6	1.0	136	0.46	0.7	<0.5	1.1	3	0.3	0.1	<0.1	2	0.07
1538713	Rock	1.02	<0.005	0.6	20.1	35.7	98	<0.1	8.2	9.3	454	2.88	1.7	<0.5	6.9	29	0.5	0.5	0.2	30	0.89
1538714	Rock	2.42	<0.005	0.3	96.7	257.9	133	1.6	5.4	7.2	527	1.52	1.2	<0.5	5.9	15	1.8	0.3	3.0	21	0.47



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CERTIFICATE OF ANALYSIS

WHI17000655.1

	Method Analyte Unit MDL	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		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
1538708	Rock	0.167	6	122	2.95	71	0.192	<20	3.34	0.013	0.05	0.1	<0.01	11.7	<0.1	<0.05	15	6.6	0.3
1538709	Rock	0.007	9	3	0.03	271	0.002	<20	0.27	0.019	0.19	0.1	<0.01	0.8	<0.1	0.14	1	1.0	<0.2
1538710	Rock	0.089	15	2	0.30	106	0.008	<20	0.51	0.078	0.06	<0.1	<0.01	1.6	<0.1	0.09	4	5.2	0.6
1538711	Rock	0.047	4	80	1.24	109	0.129	<20	1.21	0.019	0.04	<0.1	<0.01	3.1	<0.1	<0.05	3	<0.5	<0.2
1538712	Rock	0.007	4	3	0.04	31	0.016	<20	0.06	<0.001	0.01	0.4	<0.01	0.5	<0.1	<0.05	<1	<0.5	<0.2
1538713	Rock	0.143	17	32	0.60	143	0.150	<20	0.93	0.031	0.28	0.3	<0.01	2.9	0.3	<0.05	4	<0.5	<0.2
1538714	Rock	0.059	7	6	0.46	156	0.085	<20	0.53	0.016	0.10	0.6	<0.01	1.6	<0.1	<0.05	3	1.0	<0.2



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QUALITY CONTROL REPORT

WHI17000655.1

	Method Analyte Unit MDL	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	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2
Pulp Duplicates																					
1538709	Rock	0.90	<0.005	1.7	6.0	17.9	18	<0.1	1.2	2.8	83	1.71	1.1	<0.5	12.1	5	<0.1	0.2	0.4	3	<0.01
REP 1538709	QC	<0.005																			
1538713	Rock	1.02	<0.005	0.6	20.1	35.7	98	<0.1	8.2	9.3	454	2.88	1.7	<0.5	6.9	29	0.5	0.5	0.2	30	0.89
REP 1538713	QC			0.6	19.9	36.4	100	<0.1	8.0	9.8	452	2.93	1.9	<0.5	7.0	32	0.6	0.6	0.2	31	0.93
Reference Materials																					
STD DS11	Standard			13.8	153.2	134.7	318	1.7	76.9	14.0	937	2.94	42.9	56.1	7.1	63	2.5	7.1	11.7	45	1.01
STD OREAS45EA	Standard			1.6	688.6	14.1	31	0.3	371.9	51.0	397	21.45	10.6	50.8	10.4	4	<0.1	0.3	0.3	315	0.03
STD OXC145	Standard	0.217																			
STD OXH122	Standard	1.242																			
STD OXN117	Standard	7.736																			
STD OXN117 Expected		7.679																			
STD OXC145 Expected		0.212																			
STD OXH122 Expected		1.247																			
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
STD DS11 Expected				13.9	156	138	345	1.71	81.9	14.2	1055	3.2082	42.8	79	7.65	67.3	2.37	7.2	12.2	50	1.063
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
Prep Wash																					
ROCK-WHI	Prep Blank	<0.005		2.1	5.7	2.2	33	<0.1	1.0	3.9	499	1.62	0.9	<0.5	2.2	21	<0.1	<0.1	<0.1	20	0.52



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QUALITY CONTROL REPORT

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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
Pulp Duplicates																			
1538709	Rock	0.007	9	3	0.03	271	0.002	<20	0.27	0.019	0.19	0.1	<0.01	0.8	<0.1	0.14	1	1.0	<0.2
REP 1538709	QC																		
1538713	Rock	0.143	17	32	0.60	143	0.150	<20	0.93	0.031	0.28	0.3	<0.01	2.9	0.3	<0.05	4	<0.5	<0.2
REP 1538713	QC	0.125	19	32	0.61	149	0.158	<20	0.98	0.031	0.29	0.4	<0.01	3.2	0.3	<0.05	5	<0.5	<0.2
Reference Materials																			
STD DS11	Standard	0.074	18	56	0.81	405	0.091	<20	1.09	0.067	0.38	3.2	0.25	3.0	4.6	0.27	4	2.2	4.2
STD OREAS45EA	Standard	0.029	7	804	0.09	143	0.100	<20	3.15	0.015	0.05	<0.1	<0.01	73.2	<0.1	<0.05	13	1.0	<0.2
STD OXC145	Standard																		
STD OXH122	Standard																		
STD OXN117	Standard																		
STD OXN117 Expected																			
STD OXC145 Expected																			
STD OXH122 Expected																			
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
STD DS11 Expected		0.0701	18.6	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	0.3	3.1	4.9	0.2835	4.7	1.9	4.56
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
Prep Wash																			
ROCK-WHI	Prep Blank	0.041	5	2	0.46	50	0.075	<20	0.85	0.067	0.08	<0.1	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2

Appendix E: Drone Survey Orthoimage

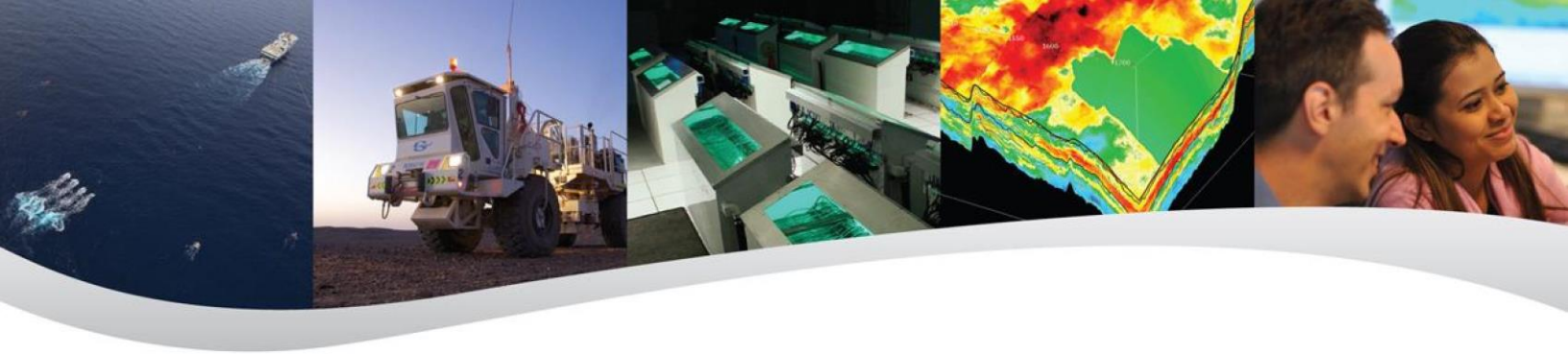
**Appendix F: SURVEY REPORT - AIRBORNE DIGHEM 2017GENERAL
INFORMATION / DATA ARCHIVE After CGG Canada Project 602997
(Oct. 6, 2017)**

GEOPHYSICAL REPORT
AIRBORNE FDEM AND MAGNETIC SURVEY

Appendix-H

SURVEY REPORT - AIRBORNE DIGHEM 2017
GENERAL INFORMATION / DATA ARCHIVE

After CGG Canada Project 602997 (Oct. 6, 2017)



**GEOPHYSICAL SURVEY REPORT
AIRBORNE MAGNETIC, AND DIGHEM SURVEY
DAWSON CITY AREAS
PROJECT 602997
GROUNDTRUTH EXPLORATION**

October 6 2017

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Disclaimer

1. The Survey that is described in this report was undertaken in accordance with current internationally accepted practices of the geophysical survey industry, and the terms and specifications of a Survey Agreement signed between the CLIENT and CGG. Under no circumstances does CGG make any warranties either expressed or implied relating to the accuracy or fitness for purpose or otherwise in relation to information and data provided in this report. The CLIENT is solely responsible for the use, interpretation, and application of all such data and information in this report and for any costs incurred and expenditures made in relation thereto. The CLIENT agrees that any use, reuse, modification, or extension of CGG's data or information in this report by the CLIENT is at the CLIENT's sole risk and without liability to CGG. Should the data and report be made available in whole or part to any third party, and such party relies thereon, that party does so wholly at its own and sole risk and CGG disclaims any liability to such party.
2. Furthermore, the Survey was performed by CGG after considering the limits of the scope of work and the time scale for the Survey.
3. The results that are presented and the interpretation of these results by CGG represent only the distribution of ground conditions and geology that are measurable with the airborne geophysical instrumentation and survey design that was used. CGG endeavours to ensure that the results and interpretation are as accurate as can be reasonably achieved through a geophysical survey and interpretation by a qualified geophysical interpreter. CGG did not perform any observations, investigations, studies or testing not specifically defined in the Agreement between the CLIENT and CGG. The CLIENT accepts that there are limitations to the accuracy of information that can be derived from a geophysical survey, including, but not limited to, similar geophysical responses from different geological conditions, variable responses from apparently similar geology, and limitations on the signal which can be detected in a background of natural and electronic noise, and geological variation. The data presented relates only to the conditions as revealed by the measurements at the sampling points, and conditions between such locations and survey lines may differ considerably. CGG is not liable for the existence of any condition, the discovery of which would require the performance of services that are not otherwise defined in the Agreement.
4. The passage of time may result in changes (whether man-made or natural) in site conditions. The results provided in this report only represent the site conditions and geology for the period that the survey was flown.
5. Where the processing and interpretation have involved CGG's interpretation or other use of any information (including, but not limited to, topographic maps, geological maps, and drill information; analysis, recommendations and conclusions) provided by the CLIENT or by third parties on behalf of the CLIENT and upon which CGG was reasonably entitled or expected to rely upon, then the Survey is limited by the accuracy of such information. Unless otherwise stated, CGG was not authorized and did not attempt to independently verify the accuracy or completeness of such information that was received from the CLIENT or third parties during the performance of the Survey. CGG is not liable for any inaccuracies (including any incompleteness) in the said information.

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System Information



Figure 1 DIGHEM System

The DIGHEM system comprises a 30 m cable which tows a 9 m bird containing the EM transmitter and receiver coil pairs (three coplanar and two coaxial), a magnetometer, a laser altimeter and a GPS antenna for flight path recovery. The helicopter has a tail boom mounted GPS antenna for in-flight navigation, radar and barometric altimeters, a video camera and a data acquisition system.

Aircraft and Geophysical On-Board Equipment

Helicopter:	AS350 B2
Operator:	Trans North Helicopters
Registration:	C-GRBT, C-FCHN
Average Survey Speed:	110 km/h (30m/s)
EM System:	DIGHEM, symmetric dipole configurations.

Dipole Moment (Atm ²)	Orientation	Nominal Frequency	Actual Frequency	Coil Separation (m)
211	Coaxial	1,000 Hz 900	1,121 Hz 924	7.97 7.98
211	Coplanar Coaxial	Hz	Hz	7.92 7.98
67	Coplanar	5,500 Hz	5,453 Hz	6.32
56	Coplanar	7,200 Hz	7,452 Hz	
15		56,000 Hz	55,600 Hz	

Table 1 DIGHEM BKS51 Configuration

Dipole Moment (Atm ²)	Orientation	Nominal Frequency	Actual Frequency	Coil Separation (m)
211	Coaxial	1,000 Hz 900	1,112 Hz 920	7.98 7.98
211	Coplanar Coaxial	Hz	Hz	7.92 7.98
67	Coplanar	5,500 Hz	5,665 Hz	6.33
56	Coplanar	7,200 Hz	7,160 Hz	
15		56,000 Hz	56,260 Hz	

Table 2 DIGHEM BKS54 Configuration

Digital Acquisition: CGG HeliDAS.

Video: Panasonic WVCD/32 Camera with Axis 241S Video Server.
Camera is mounted to the exterior bottom of the helicopter
between the forward skid tubes

Magnetometer: Scintrex Cesium Vapour (CS-3), mounted in the EM bird;

Operating Range: 15,000 to 100,000 nT
Operating Limit: -40°C to 50°C

Accuracy: ± 0.002 nT

Measurement Precision: 0.001 nT

Sampling rate: 10.0 Hz

Radar Altimeter:	Honeywell Sperry Altimeter System. Radar antennas are mounted to the exterior bottom of the helicopter between the forward skid tubes Operating Range: 0 – 2500ft Operating Limit: -55°C to 70°C 0 to 55,000 ft Accuracy: ± 3% (100 – 500ft above obstacle) ± 4% (500 – 2500ft above obstacle) Measurement Precision: 1 ft Sample Rate: 10.0 Hz
Laser Altimeter:	Optech G-150 mounted in the EM bird; Operating Range: 0.2 to 250 m Operating Limit: -10°C to 45°C Accuracy: ±5 cm (10°C to 30°C) ±10 cm (-10°C to 45°C) Measurement Precision: 1 cm Sample Rate: 10.0 Hz
Aircraft Navigation:	NovAtel OEM4 Card with an Aero antenna mounted on the tail of the helicopter; Operating Limit: -40°C to 85°C Real-Time Accuracy: 1.2m CEP (L1 WAAS); Real-Time Measurement Precision: 6 cm RMS Sample Rate: 2.0 Hz
EM Bird Positional Data:	NovAtel OEM4 with Aero Antenna mounted on the EM bird. Operating Limit: -40°C to 85°C Real-Time Accuracy: 1.8m CEP (L1); Real-Time Measurement Precision: 6 cm RMS Sample Rate: 2.0 Hz
Barometric Altimeter:	Motorola MPX4115AP analog pressure sensor mounted in the helicopter Operating Range: 55 kPa to 108 kPa Operating Limit: -40°C to 125°C Accuracy: ± 1.5 kPa (0°C to 85°C) ± 3.0 kPa (-20°C to 0°C, 85°C to 105°C) ± 4.5 kPa (-40°C to -20°C, 105°C to 125°C) Measurement Precision: 0.01 kPa Sampling Rate = 10.0 Hz

Temperature: Analog Devices 592 sensor mounted on the camera box

Operating Range: -40°C to + 75°C

Operating Limit: -40°C to + 75°C

Accuracy: $\pm 1.5^\circ\text{C}$

Measurement Precision: 0.03°C

Sampling Rate = 10.0 Hz

Base Station Equipment

Primary Magnetometer: CGG CF1 using Scintrex cesium vapour sensor with Marconi GPS card and antenna for measurement synchronization to GPS. The base station also collects barometric pressure and outside temperature.

Magnetometer Operating Range: 15,000 to 100,000 nT

Barometric Operating Range: 55kPa to 108 kPa

Temperature Operating Range: -40°C to 75°C

Sample Rate: 1.0 Hz

GPS Receiver: NovAtel OEM4 Card with an Aero antenna

Real-Time Accuracy: 1.8m

CEP (L1)

Sample Rate: 1.0 Hz

Secondary Magnetometer: GEM Systems GSM-19

Operating Range: 20,000 to 120,000 nT Operating
Limit: -40°C to 60°C

Accuracy: ± 0.2 nT

Measurement Precision: 0.01 nT

Sample Rate: 0.33 Hz

Quality Control and In-Field Processing

Digital data for each flight were uploaded to the Mississauga office daily in order to verify data quality and completeness. A database was created and updated using Geosoft Oasis Montaj and proprietary CGG Atlas software. This allowed personnel to calculate, display and verify both the positional (flight path) and geophysical data. The initial database was examined as a preliminary assessment of the data acquired for each flight.

Initial processing of CGG survey data consists of differential corrections to the airborne GPS data, verification of EM calibrations, drift correction of the raw airborne EM data, spike rejection and filtering of all geophysical and ancillary data, calculation of preliminary resistivity data, and diurnal correction of magnetic data.

All data, including base station records, were checked on a daily basis to ensure compliance with the survey contract specifications. Re-flights were required if any of the following specifications were not met.

Navigation

A specialized GPS system provided in-flight navigation control. The system determined the absolute position of the helicopter by monitoring the range information of twelve channels (satellites). The Novatel OEM4 receiver was used for this application. In North America, the OEM4 receiver is WAAS-enabled (Wide Area Augmentation System) providing better real-time positioning.

A Novatel OEM4 GPS base station was used to record pseudo-range, carrier phase, ephemeris, and timing information of all available GPS satellites in view at a one second interval. These data are used to improve the conversion of aircraft raw ranges to differentially corrected aircraft position. The GPS antenna was setup in a location that allowed for clear sight of the satellites above. The set-up of the antenna also considered surfaces that could cause signal reflection around the antenna that could be a source of error to the received data measurements.

Flight Path

Flight lines did not deviate from the intended flight path by more than 25% of the planned flight path over a distance of more than 1 kilometre. Flight specifications were based on GPS positional data recorded at the helicopter.

Clearance

The survey elevation is defined as the measurement of the helicopter radar altimeter to the tallest obstacle in the helicopter path. An obstacle is any structure or object which will impede the path of the helicopter to the ground and is not limited to and includes tree canopy, towers and power lines.

Survey elevations may vary based on the pilot's judgement of safe flying conditions around man-made structures or in rugged terrain.

The average survey elevation achieved for the helicopter and instrumentation during data collection was:

Helicopter	60 metres
Magnetometer	35 metres
DIGHEM EM sensor	35 metres

Survey elevations did not deviate by more than 20% over a distance of 2 km from the contracted elevation.

The achieved survey height was achieved for almost all the survey areas but was impacted by steep terrain in a few locations.

Airborne High Sensitivity Magnetometer

To assess the noise quality of the collected airborne magnetic data, CGG monitors the 4th difference results during flight which is verified post flight by the processor. The contracted specification for the collected airborne magnetic data was that the non-normalized 4th difference would not exceed 1.6 nT over a continuous distance of 1 kilometre excluding areas where this specification was exceeded due to natural anomalies.

Magnetic Base Station

Ground magnetic base stations were set-up to measure the total intensity of the earth's magnetic field. The base stations were placed in a magnetically quiet area, away from power lines and moving metallic objects. The contracted specification for the collected ground magnetic data was the non-linear variations in the magnetic data were not to exceed 10 nT per minute. CGG's standard of setting up the base station within 50 km from the centre of the survey block allowed for successful removal of the active magnetic events on the collected airborne magnetic data.

Electromagnetic Data

The contracted specification for the EM channels was a peak to peak noise envelope not to exceed the specified tolerance (Table 3) continuously over a horizontal distance of 2,000 metres under normal survey conditions.

The effects of spheric pulses were monitored on the EM channels by visual assessment of the data and monitoring of two spheric channels during flight operations. Spheric pulses may occur having strong peaks but narrow widths. During survey operation, there was minimal spheric activity and when it occurred it was manually removed. Flying was not performed when spheric pulses became sufficiently intense and frequent that digital data processing techniques could not recover useful data.

The acceptable noise limits of the EM channels are stated below:

Frequency	Coil Orientation	Peak to Peak Noise Envelope (ppm)
1,000 Hz	vertical coaxial	5.0
900 Hz 5,500 Hz	horizontal coplanar	10.0 10.0 20.0
7,200 Hz	vertical coaxial	40.0
56,000 Hz	horizontal coplanar	

Table 3 EM System Noise Specifications

In-Flight EM System Calibration

Calibration of the system during the survey uses the CGG AutoCal automatic, internal calibration process. At the beginning and end of each flight, and at intervals during the flight, the system is flown up to high altitude to remove it from any "ground effect" (response from the earth). Any remaining signal from the receiver coils (base level) is measured as the zero level, and is removed from the data collected until the time of the next calibration. Following the zero level setting, internal calibration coils, for which the response phase and amplitude have been determined at the factory, are automatically triggered – one for each frequency. The on-time of the coils is sufficient to determine an accurate response through any ambient noise. The receiver response to each calibration coil "event" is compared to the expected response (from the factory calibration) for both phase angle and amplitude, and any phase and gain corrections are automatically applied to bring the data to the correct value.

In addition, the outputs of the transmitter coils are continuously monitored during the survey, and the gains are adjusted to correct for any change in transmitter output.

Because the internal calibration coils are calibrated at the factory (on a resistive half-space) ground calibrations using external calibration coils on-site are not necessary for system calibration. A check calibration may be carried out on-site to ensure all systems are working correctly. All system calibrations will be carried out in the air, at sufficient altitude that there will be no measurable response from the ground.

The internal calibration coils are rigidly positioned and mounted in the system relative to the transmitter and receiver coils. In addition, when the internal calibration coils are calibrated at the factory, a rigid jig is employed to ensure accurate response from the external coils.

Using real time Fast Fourier Transforms and the calibration procedures outlined above, the data are processed in real time, from measured total field at a high sampling rate, to in-phase and quadrature values at 10 samples per second.

Data Processing

Flight Path Recovery

To check the quality of the positional data the speed of the bird is calculated using the differentially corrected x, y and z data. Any sharp changes in the speed are used to flag possible problems with the positional data. Where speed jumps occur, the data are inspected to determine the source of the error. The erroneous data are deleted and splined if less than five seconds in length. If the error is greater than five seconds the raw data are examined and if acceptable, may be shifted and used to replace the bad data. The GPS-Z component is the most common source of error. When it shows problems that cannot be corrected by recalculating the differential correction, the barometric altimeter is used as a guide to assist in making the appropriate correction. The corrected WGS84 longitude and latitude coordinates were transformed to WGS84 using the following parameters.

Datum:	WGS84
Ellipsoid:	GRS80
Projection:	UTM Zone 7N
Central meridian:	141° West
False Easting:	500000 metres
False Northing:	0 metres
Scale factor:	0.9996
WGS84 to Local Conversion:	Molodensky
Dx,Dy,Dz:	0, 0, 0

Recorded video flight path may also be linked to the data and used for verification of the flight path. Fiducial numbers are recorded continuously and are displayed on the margin of each digital image. This procedure ensures accurate correlation of data with respect to visible features on the ground. The fiducials appearing on the video frames and the corresponding fiducials in the digital profile database originate from the data acquisition system and are based on incremental time from start-up. Along with the acquisition system time, UTC time is also recorded in parallel and displayed (Figure 3).

Altitude Data

Radar altimeter data are despiked by applying a 1.5 second median and smoothed using a 1.5 second Hanning filter. The radar altimeter data are then subtracted from the GPS elevation to create a digital elevation model that is gridded and used in conjunction with profiles of the radar altimeter and flight path video to detect any spurious values.

Laser altimeter data are despiked and filtered using an alpha-trim filter. The laser altimeter data are then subtracted from the GPS elevation to create a digital elevation model that is examined in grid format for spurious values. The laser does a better job of piercing the tree canopy than the radar altimeter, and was used in the resistivity/depth calculation.



Figure 2 Flight path video

Magnetic Base Station Diurnal

The raw diurnal data are sampled at 1 Hz and imported into a database. The data are filtered with a 51 second median filter and then a 51 second Hanning filter to remove spikes and smooth short wavelength variations. A non-linear variation is then calculated and a flag channel is created to indicate where the variation exceeds the survey tolerance. Acceptable diurnal data are interpolated to a 10 Hz sample rate and the local regional field value calculated from the average of the first day's diurnal data, was removed to leave the diurnal variation. This diurnal variation is then ready to be used in the processing of the airborne magnetic data.

Residual Magnetic Intensity

The Total Magnetic Field (TMF) data collected in flight were profiled on screen along with a fourth difference channel calculated from the TMF. Spikes were removed manually where indicated by the fourth difference.

The despiked data were then corrected for lag by 2.1 seconds. The diurnal variation that was extracted from the filtered ground station data was then removed from the despiked and lagged TMF. The IGRF was calculated using the 2014 IGRF model for the specific survey location, date and altitude of the sensor and removed from the TMF to obtain the Residual Magnetic Intensity (RMI). The results were then levelled using tie and traverse line intercepts if necessary. Manual adjustments were applied to any lines that required levelling, as indicated by shadowed images of the gridded magnetic data. The manually levelled data were then subjected to a microlevelling filter if it was deemed necessary.

Calculated Vertical Magnetic Gradient

The levelled, Residual Magnetic Intensity grid was subjected to a processing algorithm that enhances the response of magnetic bodies in the upper 500 metres and attenuates the response of deeper bodies. The resulting calculated vertical gradient grid provides better definition and resolution of near-surface magnetic units. It also identifies weak magnetic features that may not be quite as evident in the RMI data. Regional magnetic variations and changes in lithology, however, may be better defined on the Residual Magnetic Intensity.

Electromagnetic Data

EM data are processed at the recorded sample rate of 10 Hz. Profiles of the data were examined on a flight by flight basis on screen to check in-flight calibrations and high altitude background removal. A lag of 1.1 seconds was applied and then a 0.9 second median and a 0.9 second Hanning filter were used to reduce noise to acceptable levels. Flights were then displayed and corrected for drift. Following that individual lines were displayed and further levelling corrections were applied while referencing the calculated apparent resistivity.

The EM data are examined to allow the interpreter to select the most appropriate EM anomaly picking controls for a given survey area. The EM picking parameters depend on several factors but are primarily based on the dynamic range of the resistivities within the survey area, and the types and expected geophysical responses of the targets being sought.

Apparent Resistivity

The apparent resistivities in $\text{ohm}\cdot\text{m}$ are generated from the in-phase and quadrature EM components for all of the coplanar frequencies, using a pseudo-layer half-space model. The inputs to the resistivity algorithm are the in-phase and quadrature amplitudes of the secondary field. The algorithm calculates the apparent resistivity in $\text{ohm}\cdot\text{m}$, and the apparent height of the bird above the conductive source. Any difference between the apparent height and the true height, as measured by the laser altimeter, is called the pseudo-layer and reflects the difference between the real geology and a homogeneous halfspace. This difference is often attributed to the presence of a highly resistive upper layer. Any errors in the altimeter reading, caused by heavy tree cover, are included in the pseudo-layer and do not affect the resistivity calculation. The apparent depth estimates, however, will reflect the altimeter errors. Apparent resistivities calculated in this manner may differ from those calculated using other models.

In areas where the effects of magnetic permeability or dielectric permittivity have suppressed the in-phase responses, the calculated resistivities will be erroneously high. Various algorithms and inversion techniques can be used to partially correct for the effects of permeability and permittivity.

Apparent resistivity maps portray all of the information for a given frequency over the entire survey area. The large dynamic range afforded by the multiple frequencies makes the apparent resistivity parameter an excellent mapping tool.

The preliminary apparent resistivity images are carefully inspected to identify any lines or line segments that might require base level adjustments. Subtle changes between in-flight calibrations of the system can result in line-to-line differences that are more recognizable in resistive (low signal amplitude) areas. If required, manual level adjustments are carried out on the EM data to eliminate or minimize resistivity differences that can be attributed, in part, to changes in operating temperatures. These levelling adjustments are usually very subtle, and do not result in the degradation of discrete anomalies.

After the manual levelling process is complete, revised resistivity grids are created. The resulting grids can be subjected to a microlevelling technique in order to smooth the data for contouring. The coplanar resistivity parameter has a broad 'footprint' that requires very little filtering.

Digital Elevation

The laser altimeter values are subtracted from the differentially corrected and de-spiked GPS-Z values to produce profiles of the height above mean sea level along the survey lines. These values are gridded to produce contour maps showing approximate elevations within the survey area. Any subtle line-to-line discrepancies are manually removed. After the manual corrections are applied, the digital terrain data are filtered with a microlevelling algorithm.

The accuracy of the elevation calculation is directly dependent on the accuracy of the two input parameters, laser altimeter and GPS-Z. The GPS-Z value is primarily dependent on the number of available satellites. Although post-processing of GPS data will yield X and Y accuracies in the order of 1-2 metres, the accuracy of the Z value is usually much less, sometimes in the ± 5 metre range. Further inaccuracies may be introduced during the interpolation and gridding process.

Because of the inherent inaccuracies of this method, no guarantee is made or implied that the information displayed is a true representation of the height above sea level. Although this product may be of some use as a general reference, THIS PRODUCT MUST NOT BE USED FOR NAVIGATION PURPOSES.

Contour, Colour and Shadow Map Displays

The magnetic and resistivity data are interpolated onto a regular grid using a modified Akima spline technique. The resulting grid is suitable for image processing and generation of contour maps. The grid cell size is 20% of the line interval.

Colour maps are produced by interpolating the grid down to the pixel size. The parameter is then incremented with respect to specific amplitude ranges to provide colour "contour" maps.

Final Products

This section lists the final products that have been provided under the terms of the survey agreement. Other products can be prepared from the existing dataset, if requested. These include magnetic enhancements or derivatives, percent magnetite, resistivities corrected for magnetic permeability and/or dielectric permittivity, digital terrain, resistivity-depth sections, inversions, and overburden thickness. Most parameters can be displayed as contours, profiles, or in colour. All grids were created using the following parameters:

Projection Description:

Datum:	WGS84
Ellipsoid:	GRS80
Projection:	UTM Zone 7N
Central meridian:	141° West
False Easting:	500000 metres
False Northing:	0 metres
Scale factor:	0.9996
WGS84 to Local Conversion:	Molodensky

Dx,Dy,Dz: 0, 0, 0

Digital Archives

Line and grid data in the form of a Geosoft database (*.gdb) and XYZ file and Geosoft grids (*.grd) have been written to DVD. The formats and layouts of these archives are further described in Data Archive Description.

Report

Two paper copies of this Geophysical Survey Report plus a digital copy in PDF format.

Flight Path Videos

All survey flights in BIN/BDX format with a viewer.

CONCLUSIONS AND RECOMMENDATIONS

This report provides a very brief description of the survey results and describes the equipment, data processing procedures and logistics of the airborne survey over the Dawson City Areas, near Dawson City, Yukon.

Respectfully submitted,

CGG

R602997D

List of Personnel

The following personnel were involved in the acquisition, processing, interpretation and presentation of data, relating to a DIGHEM airborne geophysical survey carried out for GroundTruth Exploration over the Dawson City Areas near Dawson City , Yukon.

Amanda Heydorn	Project Manager
Brett Robinson	Project Manager
David Grenier	Project Manager
Chris Sawyer	Flight Planner
Serguei Ermakov	Electronics Technician
Gary Ellis	Electronics Technician
Andrew Hisperger	Electronics Technician
Lucas Charbonneau	Operator
Keith Lavalley	Operator
David Patzer	Operator
Devon Watson	Operator
Rob Brideau	Pilot (Trans North Helicopters)
Thomas McMahon	Pilot (Trans North Helicopters)
Robert Fauteaux	Pilot (Trans North Helicopters)
Jeff Anhel	AME (Trans North Helicopters)
Brian Haight	AME (Trans North Helicopters)
Alex Zlojutro	Data Processor
Ron Wiseman P.Geo	Data Processor
Russell Imrie P.Geo	Data Processor
Ruth Pritchard P.Geo	Data Processor

All personnel were employees of CGG, except where indicated.

Data Archive Description

Survey Details:

Survey Area Name: Dawson City Areas
 Project number: 602997
 Client: GroundTruth Exploration
 Survey Company Name: CGG
 Flown Dates: October 6, 2016 to July 7, 2017, 2012
 Archive Creation Date: September 12, 2012

Geodetic Information for map products:

Datum: WGS84
 Ellipsoid: GRS80
 Projection: UTM Zone 7N
 Central meridian: 141° West
 False Easting: 500000 metres
 False Northing: 0 metres
 Scale factor: 0.9996
 WGS84 to Local Conversion: Molodensky
 Dx,Dy,Dz: 0, 0, 0

Grid Archive:

Geosoft Grids:

File	Description	Units
rmi-*	Residual Magnetic Intensity block *	nT
cvg-*	Calculated Vertical Magnetic Gradient block *	nT/m
dtm-*	Digital Terrain Model block *	m
res56k-*	Apparent Resistivity coplanar 56,000 Hz block *	ohm·m
res7200-*	Apparent Resistivity coplanar 7,200 Hz block *	ohm·m
res900-*	Apparent Resistivity coplanar 900 Hz block *	ohm·m
res 1000-*	Apparent Resistivity coaxial 1,000 Hz block *	ohm·m
res 5500-*	Apparent Resistivity coaxial 900 Hz block *	ohm·m

Linedata Archive:

Geosoft Database Layout for files named 602997_archive-* where * indicates block number:

Field	Variable	Description	Units
1	x_wgs84_z7n	Easting WGS84	m
2	y_wgs84_z7n	Northing WGS84	m
3	zhg_tx	EM bird height above geoid	m
4	lat_tx	Latitude WGS84	degrees

5	lon_tx	Longitude WGS84	degrees
6	fid	fiducial	-
7	flight	Flight number	
8	date	Flight date	ddmmyy
9	altlas_tx	Bird height above surface from laser altimeter	m
10	altrad_heli	Helicopter height above surface from radar altimeter	m
11	dtm	Digital elevation model (above geoid)	m
12	mag_ds	Total magnetic field – spike rejected	m
13	diurnal_cor	Diurnal correction – base removed	nT
14	mag_ld	Total magnetic field –corrected for lag and diurnal variation	nT
15	igrf	international geomagnetic reference field	nT
16	rmi	Leveled residual magnetic intensity	nT
17	cpi900_filt	Coplanar inphase 900 Hz – spherics rejected	nT
18	cpq900_filt	Coplanar quadrature 900 Hz – spherics rejected	nT
19	cpi7200_filt	Coplanar inphase 7200 Hz – spherics rejected	ppm
20	cpq7200_filt	Coplanar quadrature 7200 Hz – spherics rejected	ppm
21	cpi56k_filt	Coplanar inphase 56 kHz – spherics rejected	ppm
22	cpq56k_filt	Coplanar quadrature 56 kHz – spherics rejected	ppm
23	cx1000_filt	Coaxial inphase 1000 Hz – spherics rejected	ppm
24	cxq1000_filt	Coaxial quadrature 1000 Hz – spherics rejected	ppm
25	cx15500_filt	Coaxial inphase 5500 Hz – spherics rejected	ppm
26	cxq5500_filt	Coaxial quadrature 5500 Hz – spherics rejected	ppm
27	cpi900_lev	Coplanar inphase 900 Hz – levelled	ppm
28	cpq900_lev	Coplanar quadrature 900 Hz – levelled	ppm
29	cpi7200_lev	Coplanar inphase 7200 Hz – levelled	ppm
30	cpq7200_lev	Coplanar quadrature 7200 Hz – levelled	ppm
31	cpi56K_lev	Coplanar inphase 56 kHz – levelled	ppm
32	cpq56K_lev	Coplanar quadrature 56 kHz – levelled	ppm
33	cx1000_lev	Coaxial inphase 1000 Hz – levelled	ppm
34	cxq1000_lev	Coaxial quadrature 1000 Hz – levelled	ppm
35	cx15500_lev	Coaxial inphase 5500 Hz – levelled	ppm
36	cxq5500_lev	Coaxial quadrature 5500 Hz – levelled	ppm
37	res900	Apparent Resistivity 900 Hz coplanar	ohm·m
38	res7200	Apparent Resistivity 7,200 Hz coplanar	ohm·m
39	res56K	Apparent Resistivity 56,000 Hz coplanar	ohm·m
40	res1000	Apparent Resistivity 1000 Hz coaxial	ohm·m
41	res5500	Apparent Resistivity 5500 Hz coaxial	ohm·m
42	dep900	Apparent Depth 900 Hz coplanar	m
43	dep7200	Apparent Depth 7,200 Hz coplanar	m
44	dep56K	Apparent Depth 56,000 Hz coplanar	m

45	dep1000	Apparent Depth 1000 Hz coaxial	m
46	dep5500	Apparent Depth 5500 Hz coaxial	m
47	powerline	Coplanar powerline monitor	

Note – The null values in the GDB and XYZ archives are displayed as *.

Report:

This geophysical survey report and the anomaly listing for Project #602997D in PDF format:

R602997D.pdf

Video:

Digital video in BIN/BDX format for all survey flights including a viewer.

CGGSurveyReplay

Background Information

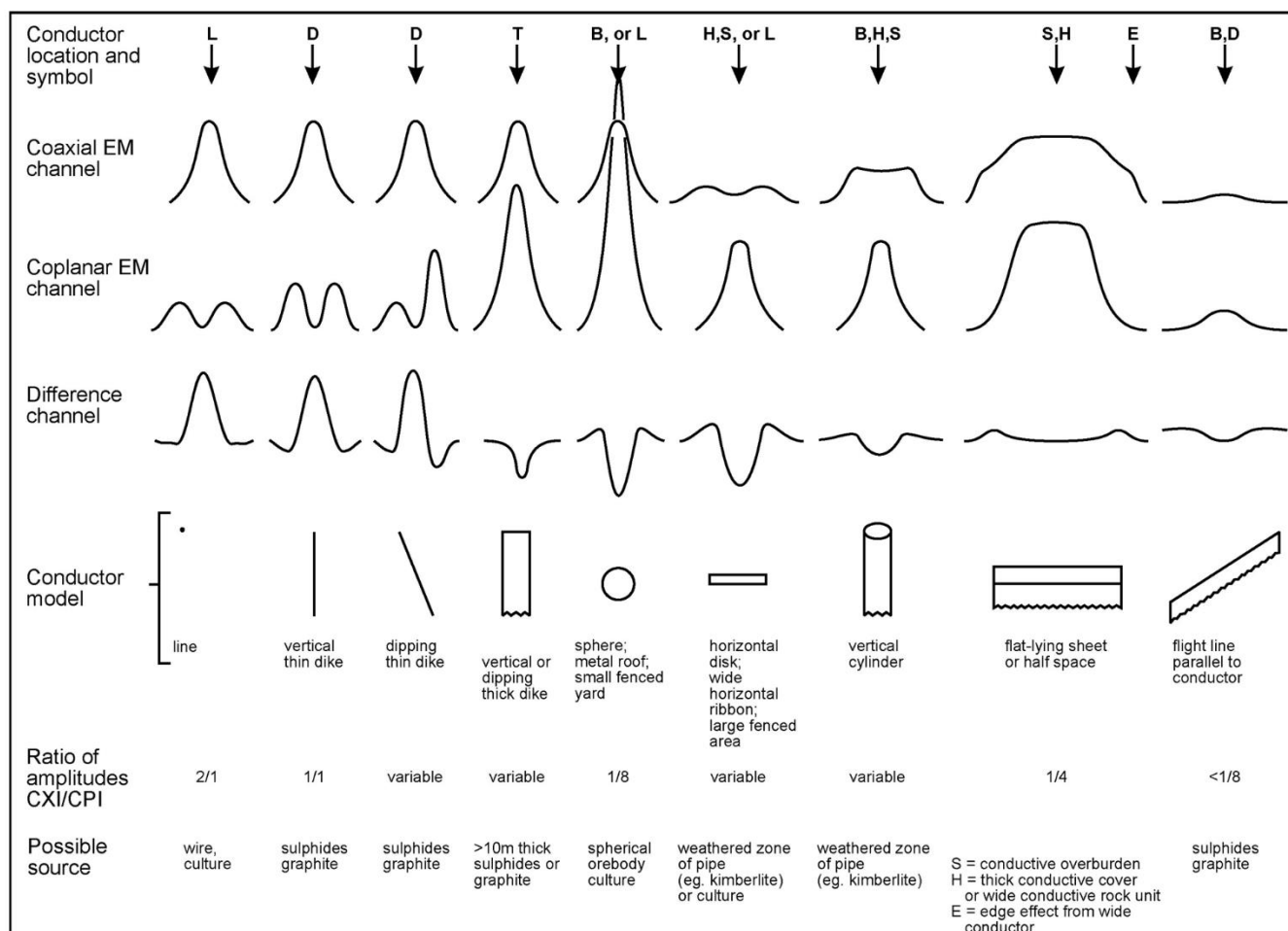
Electromagnetics

CGG electromagnetic responses fall into two general classes, discrete and broad. The discrete class consists of sharp, well-defined anomalies from discrete conductors such as sulphide lenses and steeply dipping sheets of graphite and sulphides. The broad class consists of wide anomalies from conductors having a large horizontal surface such as flatly dipping graphite or sulphide sheets, saline water-saturated sedimentary formations, conductive overburden and rock, kimberlite pipes and geothermal zones. A vertical conductive slab with a width of 200 m would straddle these two classes.

The conductive earth (half-space) model is suitable for broad conductors. Resistivity contour maps result from the use of this model. A later section entitled **Resistivity Mapping** describes the method further, including the effect of using it on anomalies caused by discrete conductors such as sulphide bodies.

Geometric Interpretation

Figure 3 shows typical HEM anomaly shapes which are used to guide the geometric interpretation.



Typical HEM anomaly shapes

Figure 3 EM Anomaly Shapes

Resistivity Mapping

Resistivity mapping is useful in areas where broad or flat lying conductive units are of interest. One example of this is the clay alteration which is associated with Carlin-type deposits in the south west United States. The resistivity parameter was able to identify the clay alteration zone over the Cove deposit. The alteration zone appeared as a strong resistivity low on the 900 Hz resistivity parameter. The 7,200 Hz and 56,000 Hz resistivities showed more detail in the covering sediments, and delineated a range front fault. This is typical in many areas of the south west United States, where conductive near surface sediments, which may sometimes be alkalic, attenuate the higher frequencies.

Resistivity mapping has proven successful for locating diatremes in diamond exploration. Weathering products from relatively soft kimberlite pipes produce a resistivity contrast with the unaltered host rock. In many cases weathered kimberlite pipes were associated with thick conductive layers that contrasted with overlying or adjacent relatively thin layers of lake bottom sediments or overburden.

Areas of widespread conductivity are commonly encountered during surveys. These conductive zones may reflect alteration zones, shallow-dipping sulphide or graphite-rich units, saline ground water, or conductive overburden. In such areas, EM amplitude changes can be generated by decreases of only 5 m in survey altitude, as well as by increases in conductivity. The typical flight record in conductive areas is characterized by in-phase and quadrature channels that are continuously active. Local EM peaks reflect either increases in conductivity of the earth or decreases in survey altitude. For such conductive areas, apparent resistivity profiles and contour maps are necessary for the correct interpretation of the airborne data. The advantage of the resistivity parameter is that anomalies caused by altitude changes are virtually eliminated, so the resistivity data reflect only those anomalies caused by conductivity changes. The resistivity analysis also helps the interpreter to differentiate between conductive bedrock and conductive overburden. For example, discrete conductors will generally appear as narrow lows on the contour map and broad conductors (e.g., overburden) will appear as wide lows.

The apparent resistivity is calculated using the pseudo-layer (or buried) half-space model defined by Fraser (1978)¹. This model consists of a resistive layer overlying a conductive half-space. The depth channels give the apparent depth below surface of the conductive material. The apparent depth is simply the apparent thickness of the overlying resistive layer. The apparent depth (or thickness) parameter will be positive when the upper layer is more resistive than the underlying material, in which case the apparent depth may be quite close to the true depth.

The apparent depth will be negative when the upper layer is more conductive than the underlying material, and will be zero when a homogeneous half-space exists. The apparent depth parameter

¹Resistivity mapping with an airborne multicoil electromagnetic system: Geophysics, v. 43, p.144-172

must be interpreted cautiously because it will contain any errors that might exist in the measured altitude of the EM bird (e.g., as caused by a dense tree cover). The inputs to the resistivity algorithm are the in-phase and quadrature components of the coplanar coil-pair. The outputs are the apparent resistivity of the conductive half-space (the source) and the sensor-source distance. The flying height is not an input variable, and the output resistivity and sensor-source distance are independent of the flying height when the conductivity of the measured material is sufficient to yield significant in-phase as well as quadrature responses. The apparent depth, discussed above, is simply the sensor-source distance minus the measured altitude or flying height. Consequently, errors in the measured altitude will affect the apparent depth parameter but not the apparent resistivity parameter.

The apparent depth parameter is a useful indicator of simple layering in areas lacking a heavy tree cover. Depth information has been used for permafrost mapping, where positive apparent depths were used as a measure of permafrost thickness. However, little quantitative use has been made of negative apparent depths because the absolute value of the negative depth is not a measure of the thickness of the conductive upper layer and, therefore, is not meaningful physically.

Qualitatively, a negative apparent depth estimate usually shows that the EM anomaly is caused by conductive overburden. Consequently, the apparent depth channel can be of significant help in distinguishing between overburden and bedrock conductors.

Interpretation in Conductive Environments

The DEP channels, which give the apparent depth to the conductive material, also help to determine whether a conductive response arises from surficial material or from a conductive zone in the bedrock. When these channels ride above the zero level on the depth profiles (i.e., depth is negative), it implies that the EM and resistivity profiles are responding primarily to a conductive upper layer, i.e., conductive overburden. If the DEP channels are below the zero level, it indicates that a resistive upper layer exists, and this usually implies the existence of a bedrock conductor. If the low frequency DEP channel is below the zero level and the high frequency DEP is above, this suggests that a bedrock conductor occurs beneath conductive cover.

EM Magnetite Mapping

The information content of HEM data consists of a combination of conductive eddy current responses and magnetic permeability responses. The secondary field resulting from conductive eddy current flow is frequency-dependent and consists of both in-phase and quadrature components, which are positive in sign. On the other hand, the secondary field resulting from magnetic permeability is independent of frequency and consists of only an in-phase component which is negative in sign. When magnetic permeability manifests itself by decreasing the measured amount of positive in-phase, its presence may be difficult to recognize. However, when it manifests itself by yielding a negative in-phase anomaly (e.g., in the absence of eddy current flow), its presence is assured. In this latter case, the negative component can be used to estimate the percent magnetite content.

A magnetite mapping technique, based on the low frequency coplanar data, can be complementary to magnetometer mapping in certain cases. Compared to magnetometry, it is far less sensitive but is more able to resolve closely spaced magnetite zones, as well as providing an estimate of the amount of magnetite in the rock. The method is sensitive to ¼% magnetite by weight when the EM

sensor is at a height of 30 m above a magnetitic half-space. It can individually resolve steep dipping narrow magnetite-rich bands which are separated by 60 m. Unlike magnetometry, the EM magnetite method is unaffected by remanent magnetism or magnetic latitude.

The EM magnetite mapping technique provides estimates of magnetite content which are usually correct within a factor of 2 when the magnetite is fairly uniformly distributed. EM magnetite maps can be generated when magnetic permeability is evident as negative in-phase responses on the data profiles.

Like magnetometry, the EM magnetite method maps only bedrock features, provided that the overburden is characterized by a general lack of magnetite. This contrasts with resistivity mapping which portrays the combined effect of bedrock and overburden.

The Susceptibility Effect

When the host rock is conductive, the positive conductivity response will usually dominate the secondary field, and the susceptibility effect² will appear as a reduction in the in-phase, rather than as a negative value. The in-phase response will be lower than would be predicted by a model using zero susceptibility. At higher frequencies the in-phase conductivity response also gets larger, so a negative magnetite effect observed on the low frequency might not be observable on the higher frequencies, over the same body. The susceptibility effect is most obvious over discrete magnetite-rich zones, but also occurs over uniform geology such as a homogeneous half-space.

High magnetic susceptibility will affect the calculated apparent resistivity, if only conductivity is considered. Standard apparent resistivity algorithms use a homogeneous half-space model, with zero susceptibility. For these algorithms, the reduced in-phase response will, in most cases, make the apparent resistivity higher than it should be. It is important to note that there is nothing wrong with the data, nor is there anything wrong with the processing algorithms. The apparent difference results from the fact that the simple geological model used in processing does not match the complex geology.

Measuring and Correcting the Magnetite Effect

Theoretically, it is possible to calculate (forward model) the combined effect of electrical conductivity and magnetic susceptibility on an EM response in all environments. The difficulty lies, however, in separating out the susceptibility effect from other geological effects when deriving resistivity and susceptibility from EM data.

Over a homogeneous half-space, there is a precise relationship between in-phase, quadrature, and altitude. These are often resolved as phase angle, amplitude, and altitude. Within a reasonable

² Magnetic susceptibility and permeability are two measures of the same physical property. Permeability is generally given as relative permeability, μ_r , which is the permeability of the substance divided by the permeability of free space ($4\pi \times 10^{-7}$). Magnetic susceptibility k is related to permeability by $k = \mu_r - 1$. Susceptibility is a unitless measurement, and is usually reported in units of 10^{-6} . The typical range of susceptibilities is -1 for quartz, 130 for pyrite, and up to 5×10^5 for magnetite, in 10^{-6} units (Telford et al, 1986).

range, any two of these three parameters can be used to calculate the half space resistivity. If the rock has a positive magnetic susceptibility, the in-phase component will be reduced and this departure can be recognized by comparison to the other parameters.

The algorithm used to calculate apparent susceptibility and apparent resistivity from HEM data, uses a homogeneous half-space geological model. Non half-space geology, such as horizontal layers or dipping sources, can also distort the perfect half-space relationship of the three data parameters. While it may be possible to use more complex models to calculate both rock parameters, this procedure becomes very complex and time-consuming. For basic HEM data processing, it is most practical to stick to the simplest geological model.

Magnetite reversals (reversed in-phase anomalies) have been used for many years to calculate an “FeO” or magnetite response from HEM data (Fraser, 1981). However, this technique could only be applied to data where the in-phase was observed to be negative, which happens when susceptibility is high and conductivity is low.

Applying Susceptibility Corrections

Resistivity calculations done with susceptibility correction may change the apparent resistivity. Highsusceptibility conductors, that were previously masked by the susceptibility effect in standard resistivity algorithms, may become evident. In this case the susceptibility corrected apparent resistivity is a better measure of the actual resistivity of the earth. However, other geological variations, such as a deep resistive layer, can also reduce the in-phase by the same amount. In this case, susceptibility correction would not be the best method. Different geological models can apply in different areas of the same data set. The effects of susceptibility, and other effects that can create a similar response, must be considered when selecting the resistivity algorithm.

Susceptibility from EM vs Magnetic Field Data

The response of the EM system to magnetite may not match that from a magnetometer survey. First, HEMderived susceptibility is a rock property measurement, like resistivity. Magnetic data show the total magnetic field, a measure of the potential field, not the rock property. Secondly, the shape of an anomaly depends on the shape and direction of the source magnetic field. The electromagnetic field of HEM is much different in shape from the earth’s magnetic field. Total field magnetic anomalies are different at different magnetic latitudes; HEM susceptibility anomalies have the same shape regardless of their location on the earth.

In far northern latitudes, where the magnetic field is nearly vertical, the total magnetic field measurement over a thin vertical dike is very similar in shape to the anomaly from the HEM-derived susceptibility (a sharp peak over the body). The same vertical dike at the magnetic equator would yield a negative magnetic anomaly, but the HEM susceptibility anomaly would show a positive susceptibility peak.

Effects of Permeability and Dielectric Permittivity

Resistivity algorithms that assume free-space magnetic permeability and dielectric permittivity, do not yield reliable values in highly magnetic or highly resistive areas. Both magnetic polarization and displacement currents cause a decrease in the in-phase component, often resulting in negative values that yield erroneously high apparent resistivities. The effects of magnetite occur at all frequencies, but are most evident at the lowest frequency. Conversely, the negative effects of dielectric permittivity are most evident at the higher frequencies, in resistive areas.

Table 4 below shows the effects of varying permittivity over a resistive (10,000 ohm-m) half space, at frequencies of 56,000 Hz (DIGHEM) and 102,000 Hz (RESOLVE).

Apparent Resistivity Calculations

Freq (Hz)	Coil	Sep (m)	Thres (ppm)	Alt (m)	In Phase	Quad Phase	App Res	App Depth (m)	Permittivity
56,000	CP	6.3	0.1	30	7.3	35.3	10118	-1.0	1 Air
56,000	CP	6.3	0.1	30	3.6	36.6	19838	-13.2	5 Quartz
56,000	CP	6.3	0.1	30	-1.1	38.3	81832	-25.7	10 Epidote
56,000	CP	6.3	0.1	30	-10.4	42.3	76620	-25.8	20 Granite
56,000	CP	6.3	0.1	30	-19.7	46.9	71550	-26.0	30 Diabase
56,000	CP	6.3	0.1	30	-28.7	52.0	66787	-26.1	40 Gabbro
102,000	CP	7.86	0.1	30	32.5	117.2	9409	-0.3	1 Air
102,000	CP	7.86	0.1	30	11.7	127.2	25956	-16.8	5 Quartz
102,000	CP	7.86	0.1	30	-14.0	141.6	97064	-26.5	10 Epidote
102,000	CP	7.86	0.1	30	-62.9	176.0	83995	-26.8	20 Granite
102,000	CP	7.86	0.1	30	-107.5	215.8	73320	-27.0	30 Diabase
102,000	CP	7.86	0.1	30	-147.1	259.2	64875	-27.2	40 Gabbro

Table 4 Effects of Permittivity on In-phase/Quadrature/Resistivity

Methods have been developed (Huang and Fraser, 2000, 2001) to correct apparent resistivities for the effects of permittivity and permeability. The corrected resistivities yield more credible values than if the effects of permittivity and permeability are disregarded.

Recognition of Culture

Cultural responses include all EM anomalies caused by man-made metallic objects. Such anomalies may be caused by inductive coupling or current gathering. The concern of the interpreter

is to recognize when an EM response is due to culture. Points of consideration used by the interpreter, when coaxial and coplanar coil-pairs are operated at a common frequency, are as follows:

1. Channels CXPL and CPPL monitor 60 Hz radiation. An anomaly on these channels shows that the conductor is radiating power. Such an indication is normally a guarantee that the conductor is cultural. However, care must be taken to ensure that the conductor is not a geologic body that strikes across a power line, carrying leakage currents.
2. A flight that crosses a "line" (e.g., fence, telephone line, etc.) yields a centre-peaked coaxial anomaly and an m-shaped coplanar anomaly (see Figure 3). When the flight crosses the cultural line at an acute angle of intersection, the amplitude ratio of coaxial/coplanar response is 2. Such an EM anomaly can only be caused by a line. The geologic body that yields anomalies most closely resembling a line is the vertically dipping thin dike. Such a body, however, yields an amplitude ratio of 1 rather than 2. Consequently, an m-shaped coplanar anomaly with a CXI/CPI amplitude ratio of 2 is virtually a guarantee that the source is a cultural line.
3. A flight that crosses a sphere or horizontal disk yields centre-peaked coaxial and coplanar anomalies with a CXI/CPI amplitude ratio (i.e., coaxial/coplanar) of $1/8$. In the absence of geologic bodies of this geometry, the most likely conductor is a metal roof or small fenced yard.
4. A flight that crosses a horizontal rectangular body or wide ribbon yields an m-shaped coaxial anomaly and a centre-peaked coplanar anomaly. In the absence of geologic bodies of this geometry, the most likely conductor is a large fenced area. Anomalies of this type are virtually certain to be cultural if they occur in an area of culture.
5. EM anomalies that coincide with culture, as seen on the camera film or video display, are usually caused by culture. However, care is taken with such coincidences because a geologic conductor could occur beneath a fence, for example. In this example, the fence would be expected to yield an mshaped coplanar anomaly as in case #2 above. If, instead, a centre-peaked coplanar anomaly occurred, there would be concern that a thick geologic conductor coincided with the cultural line.
6. The above description of anomaly shapes is valid when the culture is not conductively coupled to the environment. In this case, the anomalies arise from inductive coupling to the EM transmitter. However, when the environment is quite conductive (e.g., less than 100 ohm-m at 900 Hz), the cultural conductor may be conductively coupled to the environment. In this latter case, the anomaly shapes tend to be governed by current gathering. Current gathering can completely distort the anomaly shapes, thereby complicating the identification of cultural anomalies. In such circumstances, the interpreter can only rely on the radiation channels and on the camera film or video records.

Magnetic Responses

The measured total magnetic field provides information on the magnetic properties of the earth materials in the survey area. The information can be used to locate magnetic bodies of direct interest for exploration, and for structural and lithological mapping.

The total magnetic field response reflects the abundance of magnetic material in the source. Magnetite is the most common magnetic mineral. Other minerals such as ilmenite, pyrrhotite, franklinite, chromite, hematite, arsenopyrite, limonite and pyrite are also magnetic, but to a lesser extent than magnetite on average.

In some geological environments, an EM anomaly with magnetic correlation has a greater likelihood of being produced by sulphides than one which is non-magnetic. However, sulphide ore bodies may be non-magnetic (e.g., the Kidd Creek deposit near Timmins, Canada) as well as magnetic (e.g., the Mattabi deposit near Sturgeon Lake, Canada).

Iron ore deposits will be anomalously magnetic in comparison to surrounding rock due to the concentration of iron minerals such as magnetite, ilmenite and hematite.

Changes in magnetic susceptibility often allow rock units to be differentiated based on the total field magnetic response. Geophysical classifications may differ from geological classifications if various magnetite levels exist within one general geological classification. Geometric considerations of the source such as shape, dip and depth, inclination of the earth's field and remanent magnetization will complicate such an analysis.

In general, mafic lithologies contain more magnetite and are therefore more magnetic than many sediments which tend to be weakly magnetic. Metamorphism and alteration can also increase or decrease the magnetization of a rock unit.

Textural differences on a total field magnetic contour, colour or shadow map due to the frequency of activity of the magnetic parameter resulting from inhomogeneities in the distribution of magnetite within the rock, may define certain lithologies. For example, near surface volcanics may display highly complex contour patterns with little line-to-line correlation.

Rock units may be differentiated based on the plan shapes of their total field magnetic responses. Mafic intrusive plugs can appear as isolated "bulls-eye" anomalies. Granitic intrusives appear as sub-circular zones, and may have contrasting rings due to contact metamorphism. Generally, granitic terrain will lack a pronounced strike direction, although granite gneiss may display strike.

Linear north-south units are theoretically not well-defined on total field magnetic maps in equatorial regions due to the low inclination of the earth's magnetic field. However, most stratigraphic units will have variations in composition along strike that will cause the units to appear as a series of alternating magnetic highs and lows.

Faults and shear zones may be characterized by alteration that causes destruction of magnetite (e.g., weathering) that produces a contrast with surrounding rock. Structural breaks may be filled by magnetite-rich, fracture filling material as is the case with diabase dikes, or by non-magnetic felsic material.

Faulting can also be identified by patterns in the magnetic total field contours or colours. Faults and dikes tend to appear as lineaments and often have strike lengths of several kilometres. Offsets in narrow, magnetic, stratigraphic trends also delineate structure. Sharp contrasts in magnetic lithologies may arise due to large displacements along strike-slip or dip-slip faults.

GLOSSARY

CGG GLOSSARY OF AIRBORNE GEOPHYSICAL TERMS

accelerometer: an instrument that measures both acceleration (due to motion) and acceleration due to **gravity**.

altitude attenuation: the absorption of gamma rays by the atmosphere between the earth and the detector. The number of gamma rays detected by a system decreases as the altitude increases.

AGG: Airborne **gravity gradiometer**.

AGS: Airborne **gamma-ray spectrometry**.

amplitude: The strength of the total electromagnetic field. In **frequency domain** it is most often the sum of the squares of **in-phase** and **quadrature** components. In multi-component electromagnetic surveys it is generally the sum of the squares of all three directional components.

analytic signal: The total amplitude of all the directions of magnetic **gradient**. Calculated as the sum of the squares.

anisotropy: Having different **physical parameters** in different directions. This can be caused by layering or fabric in the geology. Note that a unit can be anisotropic, but still **homogeneous**.

anomaly: A localized change in the geophysical data characteristic of a discrete source, such as a conductive or magnetic body: something locally different from the **background**.

apparent- : the **physical parameters** of the earth measured by a geophysical system are normally expressed as apparent, as in “apparent **resistivity**”. This means that the measurement is limited by assumptions made about the geology in calculating the response measured by the geophysical system. Apparent resistivity calculated with **HEM**, for example, generally assumes that the earth is a **homogeneous half-space** – not layered.

attitude: the orientation of a geophysical system relative to the earth. Some surveys assume the instrument attitudes are constant, and other surveys measure the attitude and correct the data for the changes in response because of attitude.

B-field: In time-domain **electromagnetic** surveys, the magnetic field component of the (electromagnetic) **field**. This can be measured directly, although more commonly it is calculated by integrating the time rate of change of the magnetic field **dB/dt**, as measured with a receiver coil.

background: The “normal” response in the geophysical data – that response observed over most of the survey area. **Anomalies** are usually measured relative to the background. In airborne gamma-ray spectrometric surveys the term defines the **cosmic**, radon, and aircraft responses in the absence of a signal from the ground.

base-level: The measured values in a geophysical system in the absence of any outside signal. All geophysical data are measured relative to the system base level.

base frequency: The frequency of the pulse repetition for a **time-domain electromagnetic** system. Measured between subsequent positive pulses.

base magnetometer: A stationary magnetometer used to record the **diurnal** variations in the earth’s magnetic field; to be used to correct the survey magnetic data.

bird: A common name for the pod towed beneath or behind an aircraft, carrying the geophysical sensor array.

bucking: The process of removing the strong **signal** from the **primary field** at the **receiver** from the data, to measure the **secondary field**. It can be done electronically or mathematically. This is done in **frequency-domain EM**, and to measure **on-time** in **time-domain EM**.

calibration: a procedure to ensure a geophysical instrument is measuring accurately and repeatably. Most often applied in **EM** and **gamma-ray spectrometry**.

calibration coil: A wire coil of known size and dipole moment, which is used to generate a field of known **amplitude** and **phase** or **decay constant** in the receiver, for system calibration. Calibration coils can be external, or internal to the system. Internal coils may be called Q-coils.

coaxial coils: [CX] Coaxial coils in an HEM system are in the vertical plane, with their axes horizontal and collinear in the flight direction. These are most sensitive to vertical conductive objects in the ground, such as thin, steeply dipping conductors perpendicular to the flight direction. Coaxial coils generally give the sharpest anomalies over localized conductors. (See also **coplanar coils**)

coil: A multi-turn wire loop used to transmit or detect electromagnetic fields. Time varying **electromagnetic** fields through a coil induce a voltage proportional to the strength of the field and the rate of change over time.

compensation: Correction of airborne geophysical data for the changing effect of the aircraft. This process is generally used to correct data in **fixed-wing time-domain electromagnetic** surveys (where the transmitter is on the aircraft and the receiver is moving), and magnetic surveys (where the sensor is on the aircraft, turning in the earth’s magnetic field).

component: In **frequency domain electromagnetic** surveys this is one of the two **phase** measurements – **in-phase or quadrature**. In “multi-component” electromagnetic surveys it is also used to define the measurement in one geometric direction (vertical, horizontal in-line and horizontal transverse – the Z, X and Y components).

Compton scattering: gamma ray photons will bounce off electrons as they pass through the earth and atmosphere, reducing their energy and then being detected by **radiometric** sensors at lower energy levels. See also **stripping**.

conductance: See **conductivity thickness**

conductivity: [□] The facility with which the earth or a geological formation conducts electricity. Conductivity is usually measured in milli-Siemens per metre (mS/m). It is the reciprocal of **resistivity**.

conductivity-depth imaging: see **conductivity-depth transform**.

conductivity-depth transform: A process for converting electromagnetic measurements to an approximation of the conductivity distribution vertically in the earth, assuming a **layered earth**. (Macnae and Lamontagne, 1987; Wolfgram and Karlik, 1995)

conductivity thickness: [□t] The product of the **conductivity**, and thickness of a large, tabular body. (It is also called the “conductivity-thickness product”) In electromagnetic geophysics, the response of a thin plate-like conductor is proportional to the conductivity multiplied by thickness. For example a 10 metre thickness of 20 Siemens/m mineralization will be equivalent to 5 metres of 40 S/m; both have 200 S conductivity thickness. Sometimes referred to as conductance.

conductor: Used to describe anything in the ground more conductive than the surrounding geology. Conductors are most often clays or graphite, or hopefully some type of mineralization, but may also be manmade objects, such as fences or pipelines.

continuation: mathematical procedure applied to **potential field** geophysical data to approximate data collected at a different altitude. Data can be continued upward to a higher altitude or downward to a lower altitude.

coplanar coils: [CP] In HEM, the coplanar coils lie in the horizontal plane with their axes vertical, and parallel. These coils are most sensitive to massive conductive bodies, horizontal layers, and the **halfspace**.

cosmic ray: High energy sub-atomic particles from outer space that collide with the earth's atmosphere to produce a shower of gamma rays (and other particles) at high energies.

counts (per second): The number of **gamma-rays** detected by a gamma-ray **spectrometer**. The rate depends on the geology, but also on the size and sensitivity of the detector.

culture: A term commonly used to denote any man-made object that creates a geophysical anomaly. Includes, but not limited to, power lines, pipelines, fences, and buildings.

current channelling: See current gathering.

current gathering: The tendency of electrical currents in the ground to channel into a conductive formation. This is particularly noticeable at higher frequencies or early time channels when the formation is long and parallel to the direction of current flow. This tends to enhance anomalies relative to inductive currents (see also **induction**). Also known as current channelling.

daughter products: The radioactive natural sources of gamma-rays decay from the original “parent” element (commonly potassium, uranium, and thorium) to one or more lower-energy

“daughter” elements. Some of these lower energy elements are also radioactive and decay further. **Gamma-ray spectrometry** surveys may measure the gamma rays given off by the original element or by the decay of the daughter products.

dB/dt: As the **secondary electromagnetic field** changes with time, the magnetic field [**B**] component induces a voltage in the receiving **coil**, which is proportional to the rate of change of the magnetic field over time.

decay: In **time-domain electromagnetic** theory, the weakening over time of the **eddy currents** in the ground, and hence the **secondary field** after the **primary field** electromagnetic pulse is turned off. In **gamma-ray spectrometry**, the radioactive breakdown of an element, generally potassium, uranium, thorium, into their **daughter** products.

decay constant: see time constant.

decay series: In **gamma-ray spectrometry**, a series of progressively lower energy **daughter products** produced by the radioactive breakdown of uranium or thorium.

depth of exploration: The maximum depth at which the geophysical system can detect the target. The depth of exploration depends very strongly on the type and size of the target, the contrast of the target with the surrounding geology, the homogeneity of the surrounding geology, and the type of geophysical system. One measure of the maximum depth of exploration for an electromagnetic system is the depth at which it can detect the strongest conductive target – generally a highly conductive horizontal layer.

differential resistivity: A process of transforming **apparent resistivity** to an approximation of layer resistivity at each depth. The method uses multi-frequency HEM data and approximates the effect of shallow layer **conductance** determined from higher frequencies to estimate the deeper conductivities (Huang and Fraser, 1996)

dipole moment: [NIA] For a transmitter, the product of the area of a **coil**, the number of turns of wire, and the current flowing in the coil. At a distance significantly larger than the size of the coil, the magnetic field from a coil will be the same if the dipole moment product is the same. For a receiver coil, this is the product of the area and the number of turns. The sensitivity to a magnetic field (assuming the source is far away) will be the same if the dipole moment is the same.

diurnal: The daily variation in a natural field, normally used to describe the natural fluctuations (over hours and days) of the earth’s magnetic field.

dielectric permittivity: [ϵ] The capacity of a material to store electrical charge, this is most often measured as the relative permittivity [ϵ_r], or ratio of the material dielectric to that of free space. The effect of high permittivity may be seen in HEM data at high frequencies over highly resistive geology as a reduced or negative **in-phase**, and higher **quadrature** data.

dose rate: see **exposure rate**.

drape: To fly a survey following the terrain contours, maintaining a constant altitude above the local ground surface. Also applied to re-processing data collected at varying altitudes above ground to simulate a survey flown at constant altitude.

drift: Long-time variations in the base-level or calibration of an instrument.

eddy currents: The electrical currents induced in the ground, or other conductors, by a time-varying **electromagnetic field** (usually the **primary field**). Eddy currents are also induced in the aircraft's metal frame and skin; a source of **noise** in EM surveys.

electromagnetic: [EM] Comprised of a time-varying electrical and magnetic field. Radio waves are common electromagnetic fields. In geophysics, an electromagnetic system is one which transmits a time-varying **primary field** to induce **eddy currents** in the ground, and then measures the **secondary field** emitted by those eddy currents.

energy window: A broad spectrum of **gamma-ray** energies measured by a spectrometric survey. The energy of each gamma-ray is measured and divided up into numerous discrete energy levels, called windows.

equivalent (thorium or uranium): The amount of radioelement calculated to be present, based on the gamma-rays measured from a **daughter** element. This assumes that the **decay series** is in equilibrium – progressing normally.

exposure rate: in radiometric surveys, a calculation of the total exposure rate due to gamma rays at the ground surface. It is used as a measurement of the concentration of all the **radioelements** at the surface. Sometimes called “dose rate”. See also: **natural exposure rate**.

fiducial, or fid: Timing mark on a survey record. Originally these were timing marks on a profile or film; now the term is generally used to describe 1-second interval timing records in digital data, and on maps or profiles.

Figure of Merit: (FOM) A sum of the 12 distinct magnetic noise variations measured by each of four flight directions, and executing three aircraft attitude variations (yaw, pitch, and roll) for each direction. The flight directions are generally parallel and perpendicular to planned survey flight directions. The FOM is used as a measure of the **manoeuvre noise** before and after **compensation**.

fixed-wing: Aircraft with wings, as opposed to “rotary wing” helicopters.

flight: a continuous interval of survey data collection, generally between stops at base to refuel.

flight-line: a single line of data across the survey area. Surveys are generally comprised of many parallel flight lines to cover the survey area, with wider-spaced **tie lines** perpendicular. Flight lines are generally separated by **turn-arounds** when the aircraft is outside the survey area.

footprint: This is a measure of the area of sensitivity under the aircraft of an airborne geophysical system. The footprint of an **electromagnetic** system is dependent on the altitude of the system, the orientation of the transmitter and receiver and the separation between the receiver and transmitter, and the conductivity of the ground. The footprint of a **gamma-ray spectrometer** depends mostly on the altitude. For all geophysical systems, the footprint also depends on the strength of the contrasting **anomaly**.

frequency domain: An *electromagnetic* system which transmits a harmonic *primary field* that oscillates over time (e.g. sinusoidal), inducing a similarly varying electrical current in the ground. These systems generally measure the changes in the *amplitude* and *phase* of the *secondary field* from the ground at different frequencies by measuring the *in-phase* and *quadrature* phase components. See also *timedomain*.

full-stream data: Data collected and recorded continuously at the highest possible sampling rate. Normal data are stacked (see *stacking*) over some time interval before recording. **gamma-ray:** A very high-energy photon, emitted from the nucleus of an atom as it undergoes a change in energy levels.

gamma-ray spectrometry: Measurement of the number and energy of natural (and sometimes man-made) gamma-rays across a range of photon energies.

GGI: gravity gradiometer instrument. An airborne gravity gradiometer (AGG) consists of a GGI mounted in an inertial platform together with a temperature control system.

gradient: In magnetic surveys, the gradient is the change of the magnetic field over a distance, either vertically or horizontally in either of two directions. Gradient data can be measured, or calculated from the total magnetic field data because it changes more quickly over distance than the *total magnetic field*, and so may provide a more precise measure of the location of a source. See also *analytic signal*.

gradiometer, gradiometry: instrument and measurement of the gradient, or change in a field with location usually for *gravity* or *magnetic* surveys. Used to provide higher resolution of *targets*, better *interpretation* of *target* geometry, independence from drift and absolute field and, for *gravity*, accelerations of the aircraft.

gravity: Survey collecting measurements of the earth's gravitational field strength. Denser objects in the earth create stronger gravitational pull above them.

ground effect: The response from the earth. A common *calibration* procedure in many geophysical surveys is to fly to altitude high enough to be beyond any measurable response from the ground, and there establish *base levels* or *backgrounds*.

half-space: A mathematical model used to describe the earth – as infinite in width, length, and depth below the surface. The most common halfspace models are *homogeneous* and *layered earth*.

heading error: A slight change in the magnetic field measured when flying in opposite directions.

HEM: Helicopter ElectroMagnetic, This designation is most commonly used for helicopter-borne, *frequencydomain* electromagnetic systems. At present, the transmitter and receivers are normally mounted in a *bird* carried on a sling line beneath the helicopter.

herringbone pattern: A pattern created in geophysical data by an asymmetric system, where the *anomaly* may be extended to either side of the source, in the direction of flight. Appears like fish bones, or like the teeth of a comb, extending either side of centre, each tooth an alternate flight line.

homogeneous: This is a geological unit that has the same **physical parameters** throughout its volume. This unit will create the same response to an HEM system anywhere, and the HEM system will measure the same apparent **resistivity** anywhere. The response may change with system direction (see **anisotropy**).

HFEM: Helicopter Frequency-domain ElectroMagnetic, This designation is used for helicopter-borne, **frequency-domain** electromagnetic systems. Formerly most often called HEM.

HTEM: Helicopter Time-domain ElectroMagnetic, This designation is used for the new generation of helicopter-borne, **time-domain** electromagnetic systems.

in-phase: the component of the measured **secondary field** that has the same phase as the transmitter and the **primary field**. The in-phase component is stronger than the **quadrature** phase over relatively higher **conductivity**.

induction: Any time-varying electromagnetic field will induce (cause) electrical currents to flow in any object with non-zero **conductivity**. (see **eddy currents**)

induction number: also called the “response parameter”, this number combines many of the most significant parameters affecting the **EM** response into one parameter against which to compare responses. For a **layered earth** the response parameter is $\mu\sigma h^2$ and for a large, flat, **conductor** it is $\mu\sigma t$, where μ is the **magnetic permeability**, σ is the angular **frequency**, σ is the **conductivity**, t is the thickness (for the flat conductor) and h is the height of the system above the conductor.

inductive limit: When the frequency of an EM system is very high, or the **conductivity** of the target is very high, the response measured will be entirely **in-phase** with no **quadrature** (phase angle =0). The in-phase response will remain constant with further increase in conductivity or frequency. The system can no longer detect changes in conductivity of the target.

infinite: In geophysical terms, an “infinite” dimension is one much greater than the **footprint** of the system, so that the system does not detect changes at the edges of the object.

International Geomagnetic Reference Field: [IGRF] An approximation of the smooth magnetic field of the earth, in the absence of variations due to local geology. Once the IGRF is subtracted from the measured magnetic total field data, any remaining variations are assumed to be due to local geology. The IGRF also predicts the slow changes of the field up to five years in the future.

inversion, or inverse modeling: A process of converting geophysical data to an earth model, which compares theoretical models of the response of the earth to the data measured, and refines the model until the response closely fits the measured data (Huang and Palacky, 1991)

layered earth: A common geophysical model which assumes that the earth is horizontally layered – the **physical parameters** are constant to **infinite** distance horizontally, but change vertically.

lead-in: approach to a **flight line** outside of survey area to establish proper track and stabilize instrumentations. The lead-in for a helicopter survey is generally shorter than required for fixed-wing.

line source, or line current: a long narrow object that creates an **anomaly** on an **EM** survey. Generally man-made objects like fences, power lines, and pipelines (**culture**).

mag: common abbreviation for **magnetic**.

magnetic: ("mag") a survey measuring the strength of the earth's magnetic field, to identify geology and targets by their effect on the field.

magnetic permeability: [μ] This is defined as the ratio of magnetic induction to the inducing magnetic field. The relative magnetic permeability [μ_r] is often quoted, which is the ratio of the rock permeability to the permeability of free space. In geology and geophysics, the **magnetic susceptibility** is more commonly used to describe rocks.

magnetic susceptibility: [k] A measure of the degree to which a body is magnetized. In SI units this is related to relative **magnetic permeability** by $k = \mu_r - 1$, and is a dimensionless unit. For most geological material, susceptibility is influenced primarily by the percentage of magnetite. It is most often quoted in units of 10^{-6} . In HEM data this is most often apparent as a negative **in-phase** component over high susceptibility, high **resistivity** geology such as diabase dikes.

manoeuvre noise: variations in the magnetic field measured caused by changes in the relative positions of the magnetic sensor and magnetic objects or electrical currents in the aircraft. This type of noise is generally corrected by magnetic **compensation**.

model: Geophysical theory and applications generally have to assume that the geology of the earth has a form that can be easily defined mathematically, called the model. For example steeply dipping **conductors** are generally modeled as being **infinite** in horizontal and depth extent, and very thin. The earth is generally modeled as horizontally layered, each layer infinite in extent and uniform in characteristic. These models make the mathematics to describe the response of the (normally very complex) earth practical. As theory advances, and computers become more powerful, the useful models can become more complex.

natural exposure rate: in radiometric surveys, a calculation of the total exposure rate due to natural-source gamma rays at the ground surface. It is used as a measurement of the concentration of all the natural **radioelements** at the surface. See also: **exposure rate**.

natural source: any geophysical technique for which the source of the energy is from nature, not from a man-made object. Most commonly applied to natural source **electromagnetic** surveys.

noise: That part of a geophysical measurement that the user does not want. Typically this includes electronic interference from the system, the atmosphere (**sferics**), and man-made sources. This can be a subjective judgment, as it may include the response from geology other than the target of interest. Commonly the term is used to refer to high frequency (short period) interference. See also **drift**.

Occam's inversion: an **inversion** process that matches the measured **electromagnetic** data to a theoretical model of many, thin layers with constant thickness and varying resistivity (Constable et al, 1987).

off-time: In a *time-domain electromagnetic* survey, the time after the end of the *primary field pulse*, and before the start of the next pulse.

on-time: In a *time-domain electromagnetic* survey, the time during the *primary field pulse*.

overburden: In engineering and mineral exploration terms, this most often means the soil on top of the unweathered bedrock. It may be sand, glacial till, or weathered rock.

Phase, phase angle: The angular difference in time between a measured sinusoidal electromagnetic field and a reference – normally the primary field. The phase is calculated from $\tan^{-1}(\text{in-phase} / \text{quadrature})$.

physical parameters: These are the characteristics of a geological unit. For electromagnetic surveys, the important parameters are *conductivity*, *magnetic permeability* (or *susceptibility*) and *dielectric permittivity*; for magnetic surveys the parameter is magnetic susceptibility, and for gamma ray spectrometric surveys it is the concentration of the major radioactive elements: potassium, uranium, and thorium.

permittivity: see *dielectric permittivity*.

permeability: see *magnetic permeability*.

potential field: A field that obeys Laplace's Equation. Most commonly used to describe *gravity* and *magnetic* measurements.

primary field: the EM field emitted by a transmitter. This field induces *eddy currents* in (energizes) the conductors in the ground, which then create their own *secondary fields*.

pulse: In time-domain EM surveys, the short period of intense *primary* field transmission. Most measurements (the *off-time*) are measured after the pulse. *On-time* measurements may be made during the pulse.

quadrature: that component of the measured *secondary field* that is phase-shifted 90° from the *primary field*. The quadrature component tends to be stronger than the *in-phase* over relatively weaker *conductivity*.

Q-coils: see *calibration coil*.

radioelements: This normally refers to the common, naturally-occurring radioactive elements: potassium (K), uranium (U), and thorium (Th). It can also refer to man-made radioelements, most often cobalt (Co) and cesium (Cs)

radiometric: Commonly used to refer to *gamma ray* spectrometry.

radon: A radioactive daughter product of uranium and thorium, radon is a gas which can leak into the atmosphere, adding to the non-geological background of a gamma-ray spectrometric survey.

receiver: the **signal** detector of a geophysical system. This term is most often used in active geophysical systems – systems that transmit some kind of signal. In airborne **electromagnetic** surveys it is most often a **coil**. (see also, **transmitter**)

resistivity: [Ω] The strength with which the earth or a geological formation resists the flow of electricity, typically the flow induced by the **primary field** of the electromagnetic transmitter. Normally expressed in ohm-metres, it is the reciprocal of **conductivity**.

resistivity-depth transforms: similar to **conductivity depth transforms**, but the calculated **conductivity** has been converted to **resistivity**.

resistivity section: an approximate vertical section of the resistivity of the layers in the earth. The resistivities can be derived from the **apparent resistivity**, the **differential resistivities**, **resistivity-depth transforms**, or **inversions**.

response parameter: another name for the **induction number**.

secondary field: The field created by conductors in the ground, as a result of electrical currents induced by the **primary field** from the **electromagnetic** transmitter. Airborne **electromagnetic** systems are designed to create and measure a secondary field.

Sengpiel section: a **resistivity section** derived using the **apparent resistivity** and an approximation of the depth of maximum sensitivity for each frequency.

sferic: Lightning, or the **electromagnetic** signal from lightning, it is an abbreviation of “atmospheric discharge”. These appear to magnetic and electromagnetic sensors as sharp “spikes” in the data. Under some conditions lightning storms can be detected from hundreds of kilometres away. (see **noise**)

signal: That component of a measurement that the user wants to see – the response from the targets, from the earth, etc. (See also **noise**)

skin depth: A measure of the depth of penetration of an electromagnetic field into a material. It is defined as the depth at which the primary field decreases to 1/e of the field at the surface. It is calculated by approximately $503 \times \sqrt{(\text{resistivity}/\text{frequency})}$. Note that depth of penetration is greater at higher **resistivity** and/or lower **frequency**.

spec: common abbreviation for *gamma-ray spectrometry*.

spectrometry: Measurement across a range of energies, where **amplitude** and energy are defined for each measurement. In gamma-ray spectrometry, the number of gamma rays are measured for each energy **window**, to define the **spectrum**.

spectrum: In **gamma ray spectrometry**, the continuous range of energy over which gamma rays are measured. In **time-domain electromagnetic** surveys, the spectrum is the energy of the **pulse** distributed across an equivalent, continuous range of frequencies.

spheric: see **sferic**.

stacking: Summing repeat measurements over time to enhance the repeating **signal**, and minimize the random **noise**.

stinger: A boom mounted on an aircraft to carry a geophysical sensor (usually **magnetic**). The boom moves the sensor farther from the aircraft, which might otherwise be a source of **noise** in the survey data.

stripping: Estimation and correction for the gamma ray photons of higher and lower energy that are observed in a particular **energy window**. See also **Compton scattering**.

susceptibility: See **magnetic susceptibility**.

tau: [τ] Often used as a name for the **decay time constant**.

TDEM: **time domain electromagnetic**.

thin sheet: A standard model for electromagnetic geophysical theory. It is usually defined as a thin, flatly conducting sheet, **infinite** in both horizontal directions. (see also **vertical plate**)

tie-line: A survey line flown across most of the **traverse lines**, generally perpendicular to them, to assist in measuring **drift** and **diurnal** variation. In the short time required to fly a tie-line it is assumed that the drift and/or diurnal will be minimal, or at least changing at a constant rate.

time constant: The time required for an **electromagnetic** field to decay to a value of 1/e of the original value. In **time-domain** electromagnetic data, the time constant is proportional to the size and **conductance** of a tabular conductive body. Also called the decay constant.

Time channel: In **time-domain electromagnetic** surveys the decaying **secondary field** is measured over a period of time, and the divided up into a series of consecutive discrete measurements over that time.

time-domain: **Electromagnetic** system which transmits a pulsed, or stepped **electromagnetic** field. These systems induce an electrical current (**eddy current**) in the ground that persists after the **primary field** is turned off, and measure the change over time of the **secondary field** created as the currents **decay**. See also **frequency-domain**.

total energy envelope: The sum of the squares of the three **components** of the **time-domain electromagnetic secondary field**. Equivalent to the **amplitude** of the secondary field.

transient: Time-varying. Usually used to describe a very short period pulse of **electromagnetic** field.

transmitter: The source of the **signal** to be measured in a geophysical survey. In airborne **EM** it is most often a **coil** carrying a time-varying electrical current, transmitting the **primary field**. (see also **receiver**)

traverse line: A normal geophysical survey line. Normally parallel traverse lines are flown across the property in spacing of 50 m to 500 m, and generally perpendicular to the target geology. Also called a **flight line**.

turn-arounds: The time the aircraft is turning between one **traverse** or **tie line** and the next. Turn-arounds are generally outside the survey area, and the data collected during this time generally are not useable, because of aircraft **manoeuvre noise**.

vertical plate: A standard model for electromagnetic geophysical theory. It is usually defined as thin conductive sheet, **infinite** in horizontal dimension and depth extent. (see also **thin sheet**)

waveform: The shape of the **electromagnetic pulse** from a **time-domain** electromagnetic transmitter.

window: A discrete portion of a **gamma-ray spectrum** or **time-domain electromagnetic decay**. The continuous energy spectrum or **full-stream** data are grouped into windows to reduce the number of samples, and reduce **noise**.

zero, or zero level: The **base level** of an instrument, with no **ground effect** or **drift**. Also, the act of measuring and setting the zero level.

Common Symbols and Acronyms

k	Magnetic susceptibility
ϵ	Dielectric permittivity
μ, μ_r	Magnetic permeability, relative permeability
ρ, ρ_a	Resistivity, apparent resistivity
σ, σ_a	Conductivity, apparent conductivity
σt	Conductivity thickness
τ	Tau, or time constant
Ωm	ohm-metres, units of resistivity
AGS	Airborne gamma ray spectrometry.
CDT	Conductivity-depth transform, conductivity-depth imaging (Macnae and Lamontagne, 1987;

Wolfgram and Karlik, 1995)

CPI, CPQ Coplanar in-phase, quadrature

CPS Counts per second

CTP Conductivity thickness product

CXI, CXQ Coaxial, in-phase, quadrature

FOM Figure of Merit

fT femtoteslas, common unit for measurement of B-Field in time-domain EM

EM Electromagnetic

keV kilo electron volts – a measure of gamma-ray energy

MeV mega electron volts – a measure of gamma-ray energy 1MeV = 1000keV

NIA dipole moment: turns x current x Area

nT nanotesla, a measure of the strength of a magnetic field

nT/s	nanoteslas/second; standard unit of measurement of secondary field dB/dt in time domain EM.
nG/h	nanoGreys/hour – gamma ray dose rate at ground level
ppm	parts per million – a measure of secondary field or noise relative to the primary or radioelement concentration.
pT	picoteslas: standard unit of measurement of B-Field in time-domain EM
pT/s	picoteslas per second: Units of decay of secondary field, dB/dt
S	siemens – a unit of conductance
x:	the horizontal component of an EM field parallel to the direction of flight.
y:	the horizontal component of an EM field perpendicular to the direction of flight.
z:	the vertical component of an EM field.

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