Geochemical Report
Target Evaluation

Yukon Mineral Exploration Program (YMEP)

MCQ Property

Mayo Mining District

NTS: 115P/09
Latitude: 63º 32.22’ N Longitude: -136 º 24.22’ W

Work Performed On: August 16 - 20, 2017

Prepared for Shawn Ryan.
By GroundTruth Exploration Inc.

Written by: Chad Cote, Isaac Fage January 31, 2018

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1 Introduction

GroundTruth Exploration Inc. conducted a target evaluation soil sampling program over the targets proposed in the MCQ Exploration Program Mayo between Aug 16 – 20, 2017. The gold target evaluation program consisted of seven detailed infill grids, with samples spaced at 25 m along lines 100 m apart. These lines are placed parallel and in-between previous grids, resulting in a high detail final grid with 50 m line spacing (figure 1).

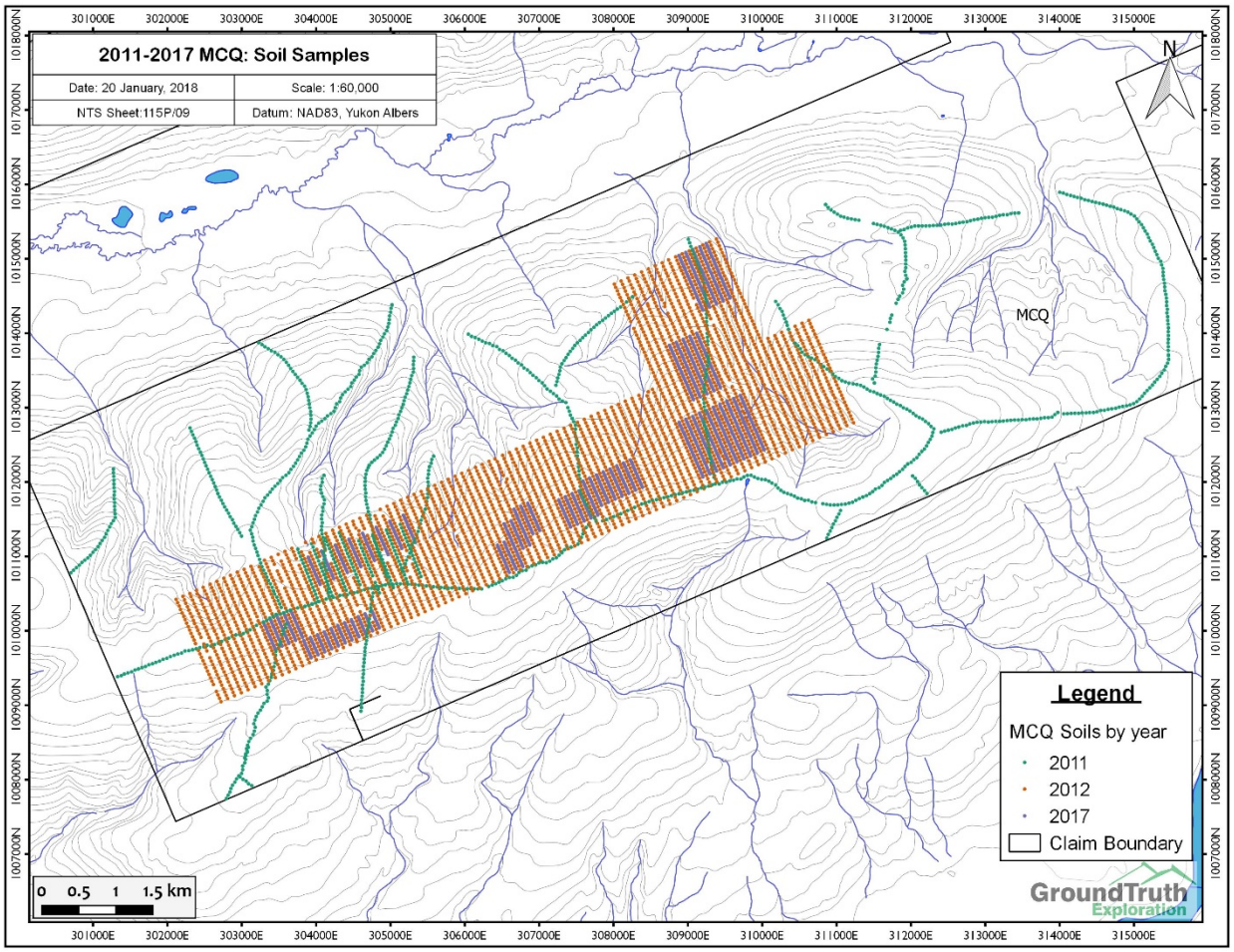


Figure 1: New and historic soil samples at the MCQ

The model deposit is a structurally controlled gold system that may have some similarities to the Goldstrike – Plateau property or Golden Predators – 3Ace property, as inferred by similarities between geology at these sites.

The MCQ area has seen over 12,500 soils taken as a regional ridge and spur soil program and follow up with three grids over highly anomalous gold soil anomalies that is now staked and the MCQ Claims are covering the largest gold soil anomaly.

The 2011 and 2012 soil program conducted by the previous group in the area (Ryangold) outlined a large gold in soil anomaly measuring 11 Km E-W by 4 Km N-S centered now on the MCQ claim block. The other gold in soil anomalies are located on the other claim blocks in the area (Moose – Lib) both owed by Shawn Ryan.

The previous claim holder Ryan Gold spent almost 1 million outlining the large gold soil anomaly over the 2 year window with the bulk of the soil grid completed in the summer of 2012 by late fall of 2012 RyanGold pulled out of the Yukon. No follow up work ever occurred and the claims were allowed to laps.

2 Property Description

The MCQ Target Evaluation program is located in central Yukon, approximately 25 km West of the community of Mayo, and 25 km north east of the Tintina Trench (figure 2). The approximate center of property is located at Latitude 63º 32.22' N and Longitude -136 º 24.22' W.

The regional is located in the southern limit of the Ogilvie Mountains. The area is composed of moderate, flat top hills below the sub-alpine limit, with elevations on the property ranging from 640 m to 1250 m. The hilltops are wet, with localized bogs and wetlands. The vegetation is typical of central Yukon with mixed spruce and sub-alpine fir, and alders in the creek beds.

Access to the area is by helicopter. The nearest permanent base is in the community of Mayo.

3 Geology

3.1 Regional Geology

The YTG Yukon geology Map indicates that MCQ property lies in Protorozoic Hyland group sediments (figure 3). There might be an intrusive granite body at the east end of the property, as indicated from the geochemical signature of Lathenum and thorium.

The property has undergone two phases of glaciation, as seen in figure 4. The entire property was glaciated three million years ago, the majority of the population was glaciated 200 thousand years ago, and the entire property was on the edge of the last glaciation event 22 thousand years ago. These glaciations have chaped the property and deposited massive amounts of sediment here. Care must be taken when analysing the soil results to determing if the material is in situe or transported.

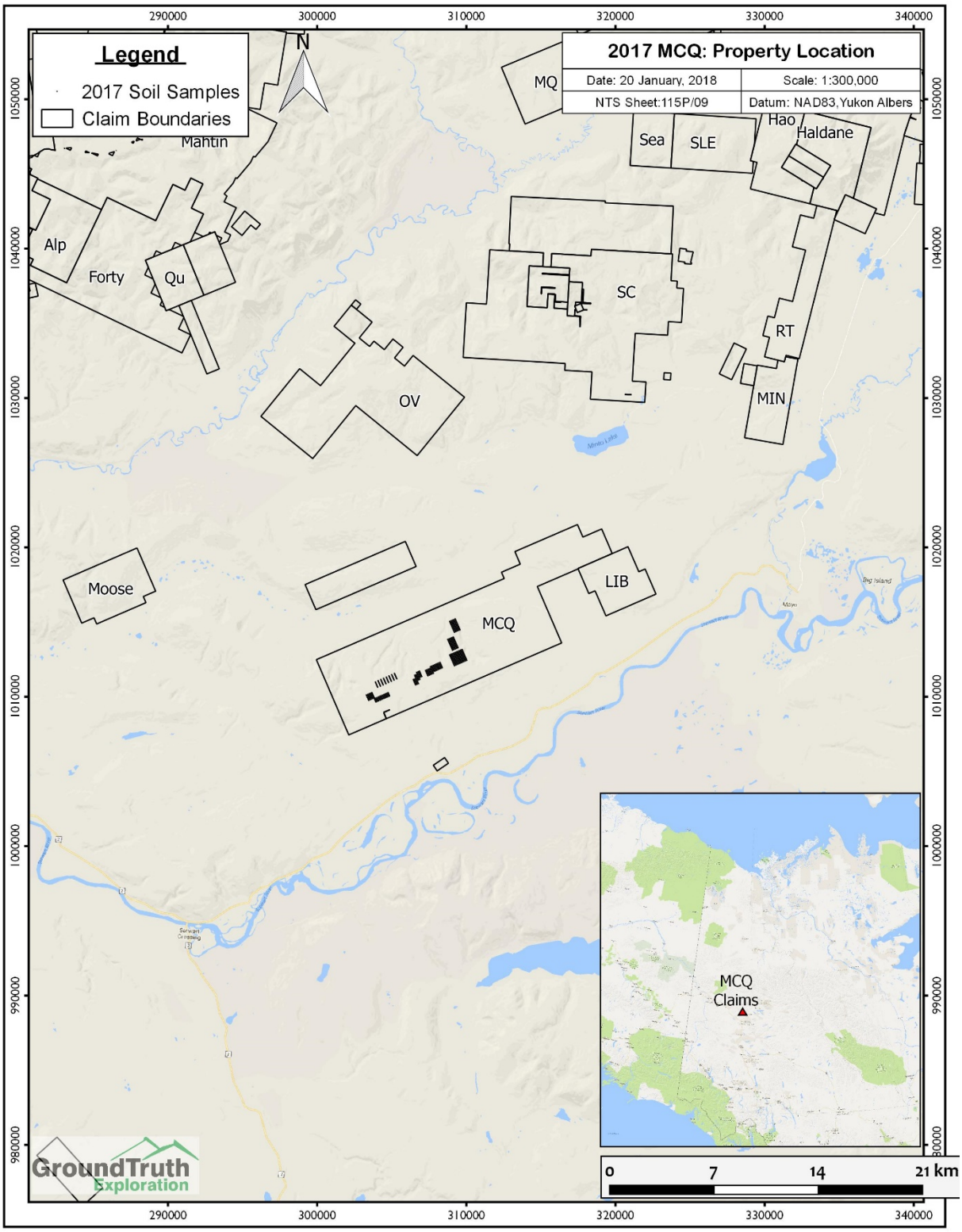


Figure 2: Property Location

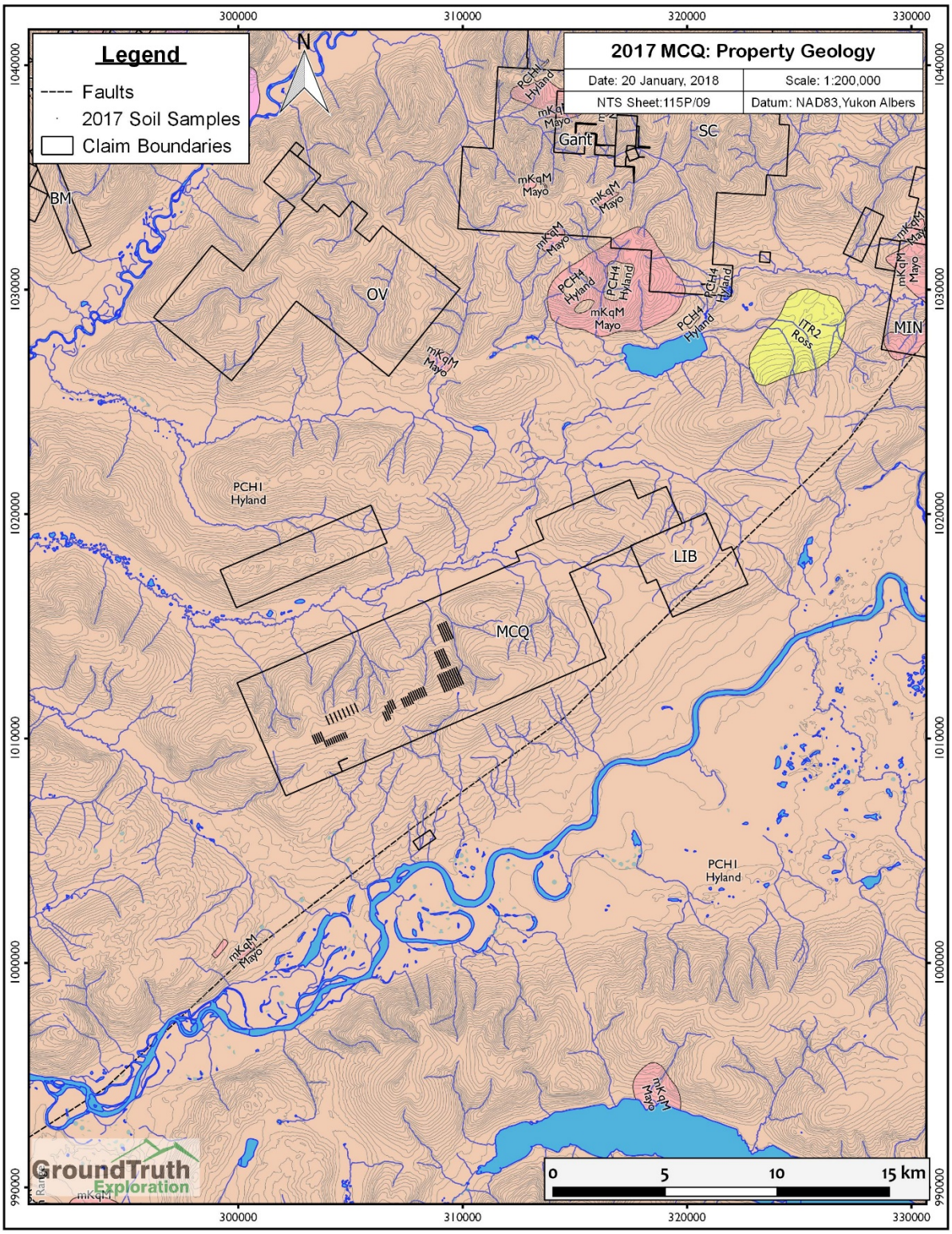


Figure 3: Geology Map of the MCQ

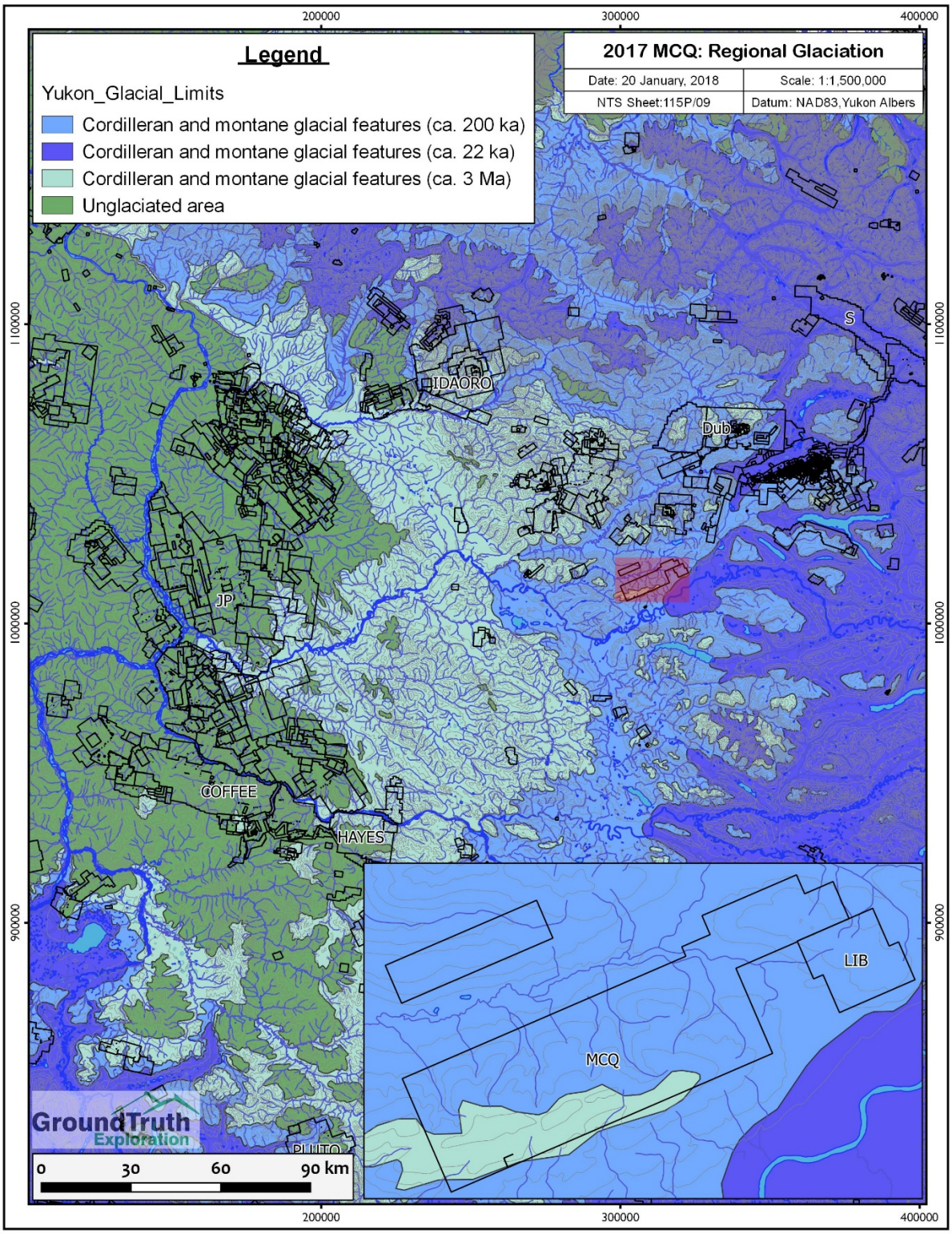


Figure 4: Regional glacial history

4 Targeted Soil Sampling

4.1 Work Performed

A total of 1392 soil samples were collected between august 16 – 20 within seven detail infill grids labelled from A to G for reference in this report (Figure 5). Samples locations are spaced at 25 m along lines 100 m apart. These lines are placed parallel and in-between previous grids, resulting in a high detail final grid with 50 m line spacing (Figure 1).

Sample quality was good overall, with few samples missed due to frozen soil. The goal of the sampling was to sample the C Horizon at all sites, although with a deep soil profile on this property, B horizon was sampled where depth could not be attained to sample C horizon . Soil sample depth, horizon, color and noted quality are plotted on Figures 16-19 and included in the sample description data attached in appendix C.

Georeferenced photos and comprehensive descriptions were collected at all sites to monitor quality of samples collected.

4.2 Soil Sample Procedure:

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

All sampling traverses are pre-planned, with pre -specified sampling intervals of 25 m. 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 Eijklcamp 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

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.

All samples were shipped to BV labs of Vancouver BC, and processed for gold and 36 elements using the ICP-MS AQ201, 15 gram method.

4.3 Results

The 2017 survey returned very favorable results, with 245 out of 1392 samples (18%) returning gold values above the lower threshold of 15 ppb gold, and 33 samples in the highly anomalous zone above 75 ppb and spread between all of the new grids. The highest result from the 2017 survey is 290.1 ppb gold, located in grid F.

Figure 5 shows the gold assay results from the 2017 survey. Figure 6 shows the compiled gold assay results within the larger MCQ soil grid, with the 2017 grids indicated. Figures 7 to 13 show the 2017 gold-in-soil results for each of the infill grids, with the gridded compiled gold results in the background for reference. Figure 14 shows the compiled property soils gridded with gold, and the inferred orientation trends.

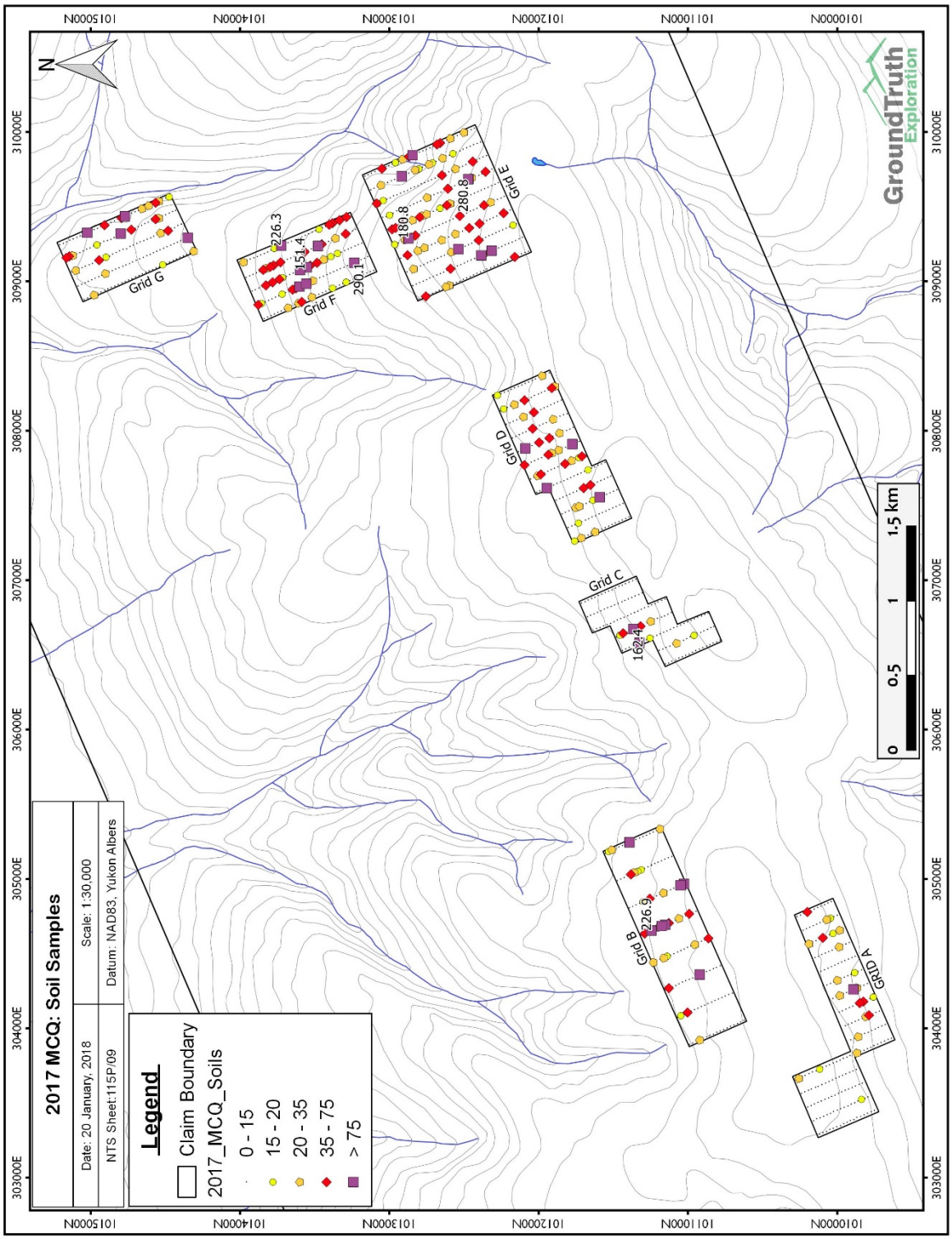


Figure 5: 2017 Work performed

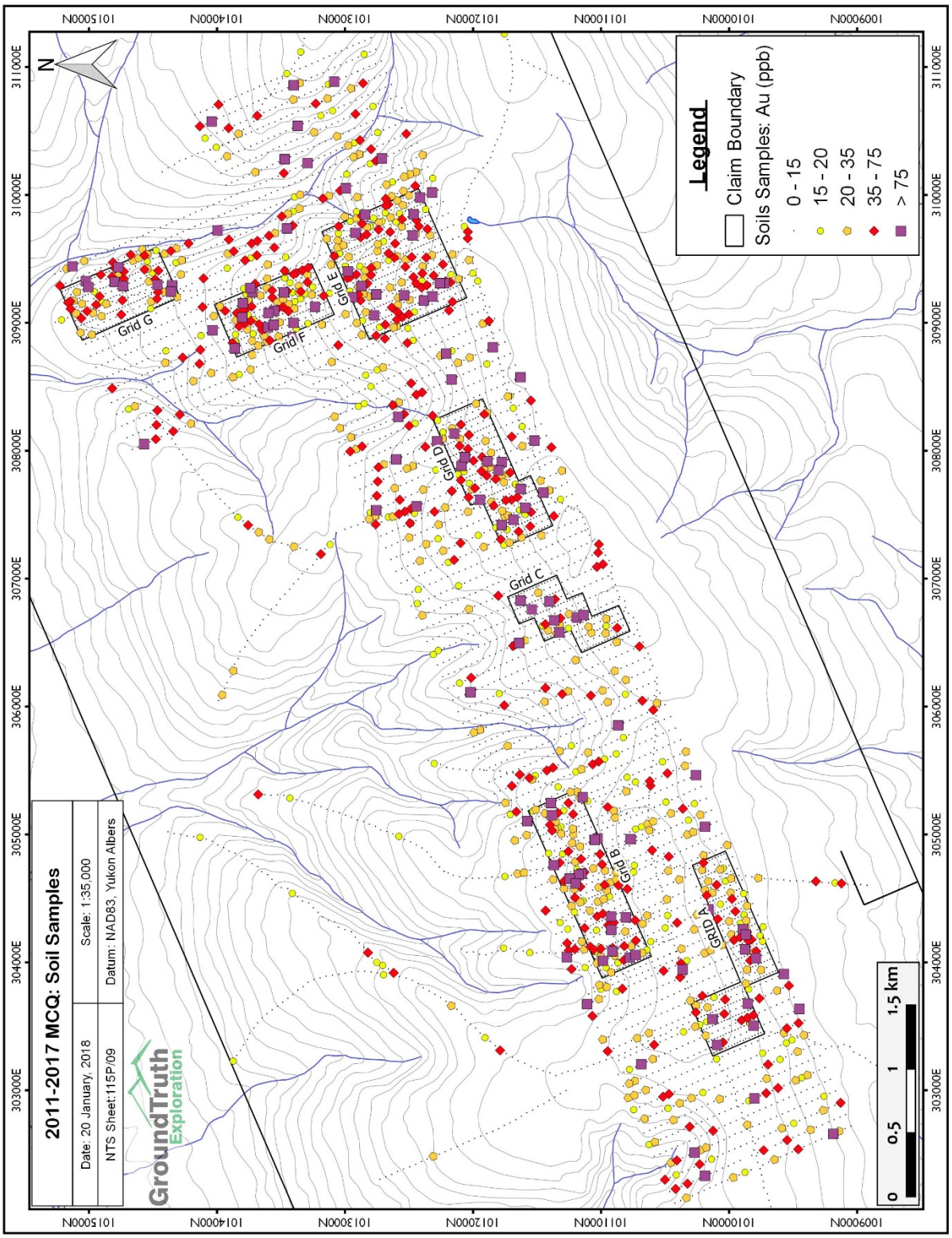


Figure 6: Compiled Soil Samples, 2011 - 2017

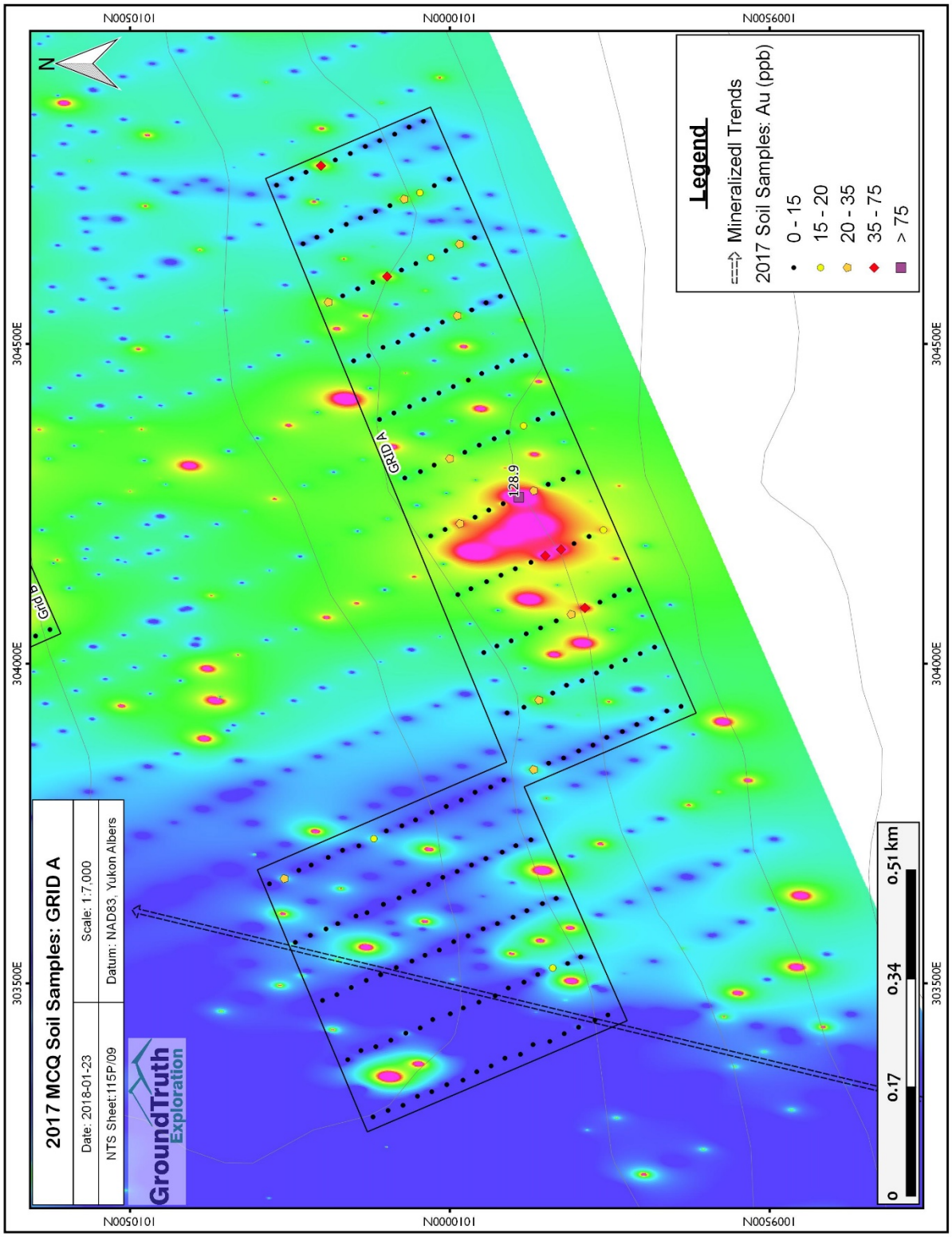


Figure 7: Compiled soil samples, Grid A

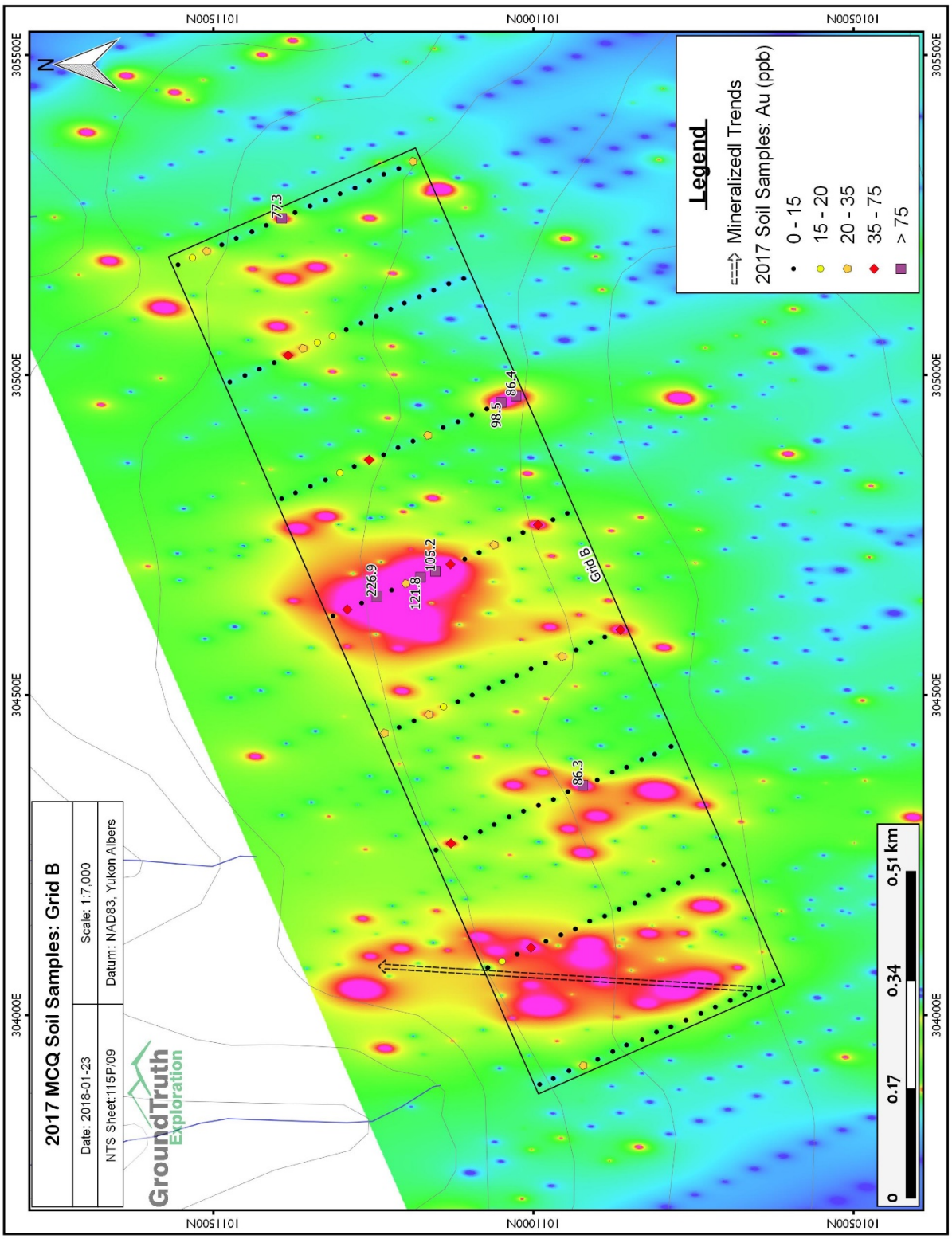


Figure 8: Compiled soil samples, Grid B

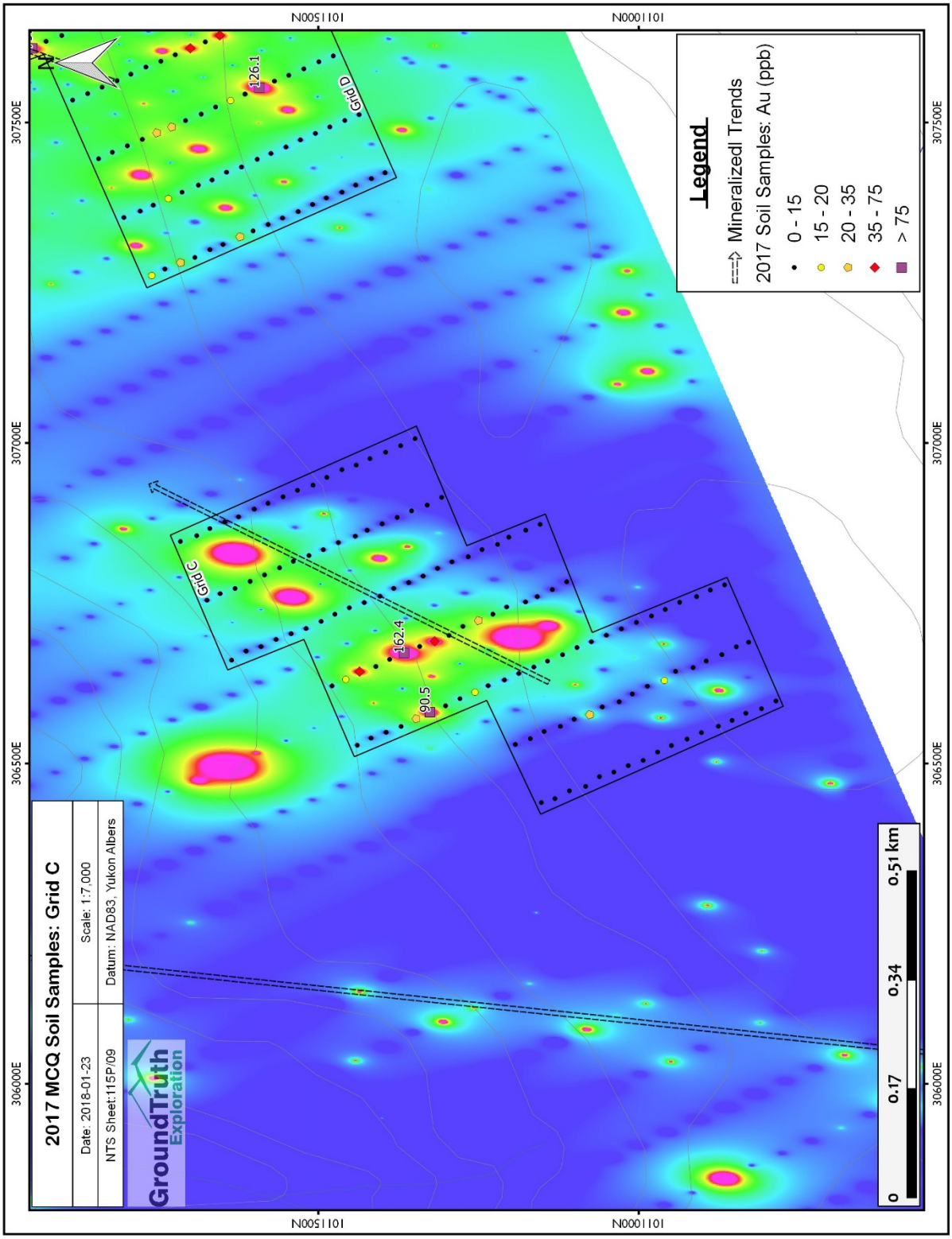


Figure 9: Compiled soil samples, Grid C

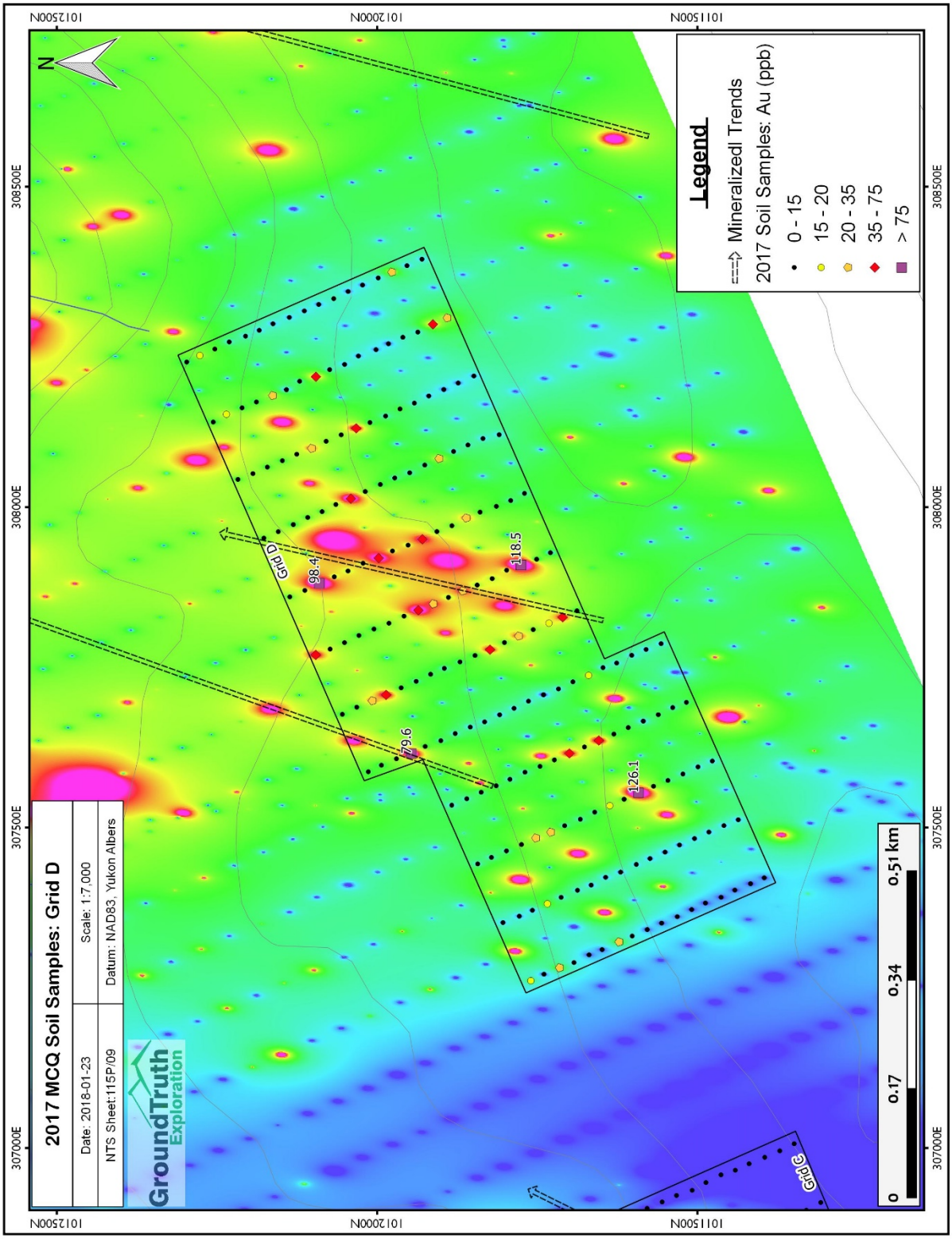


Figure 10: Compiled soil samples, Grid D

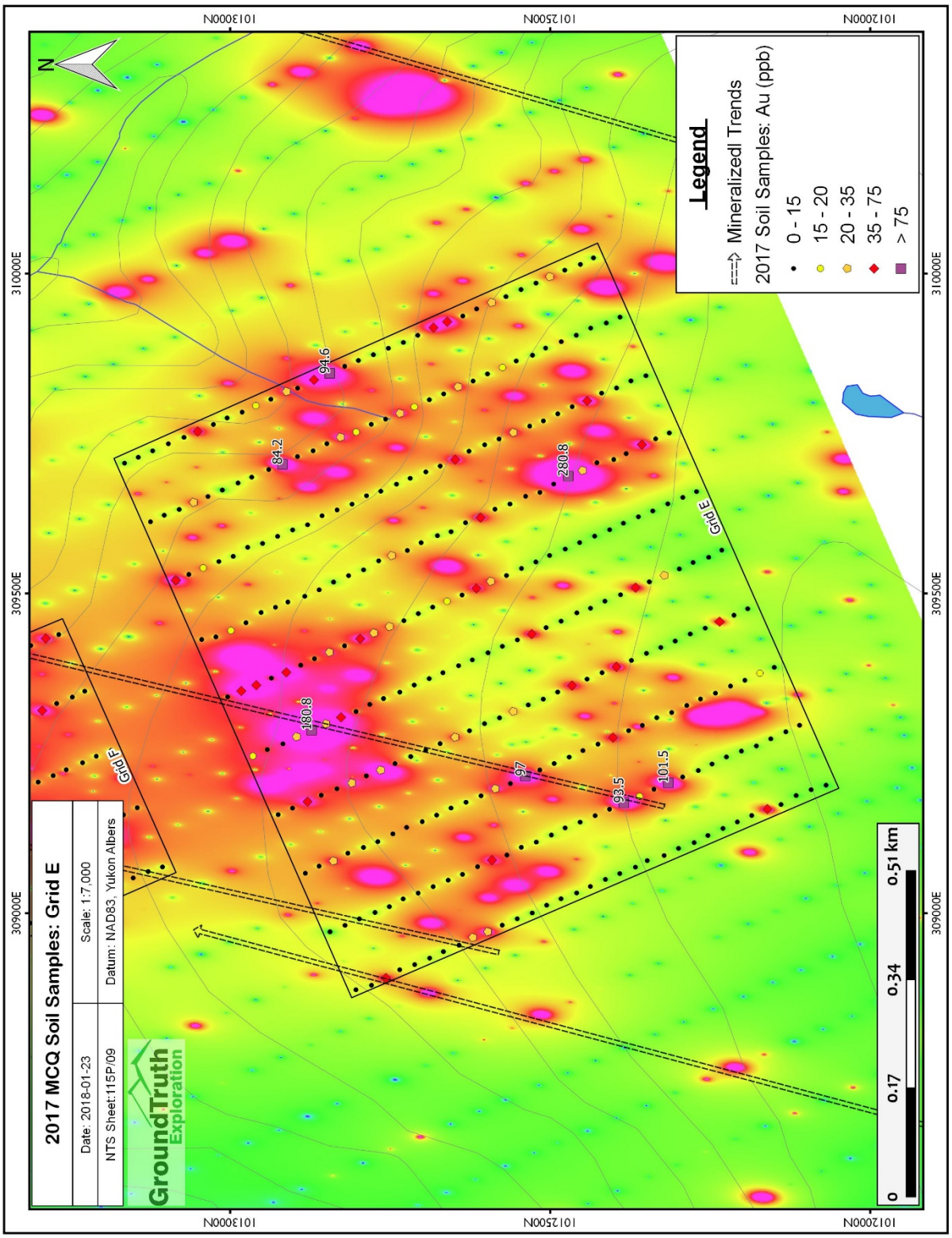


Figure 11: Compiled soil samples, Grid E

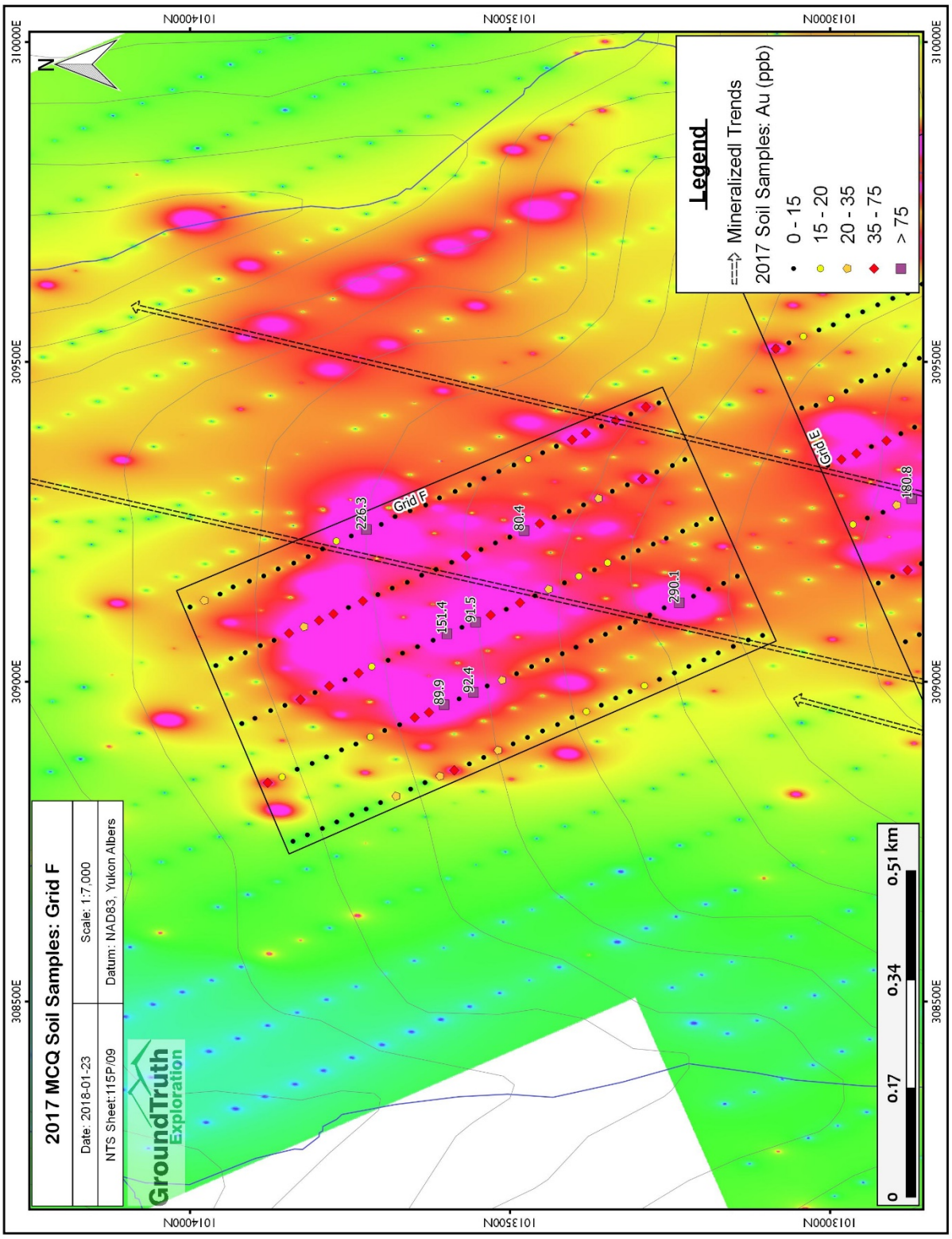


Figure 12: Compiled soil samples, Grid F

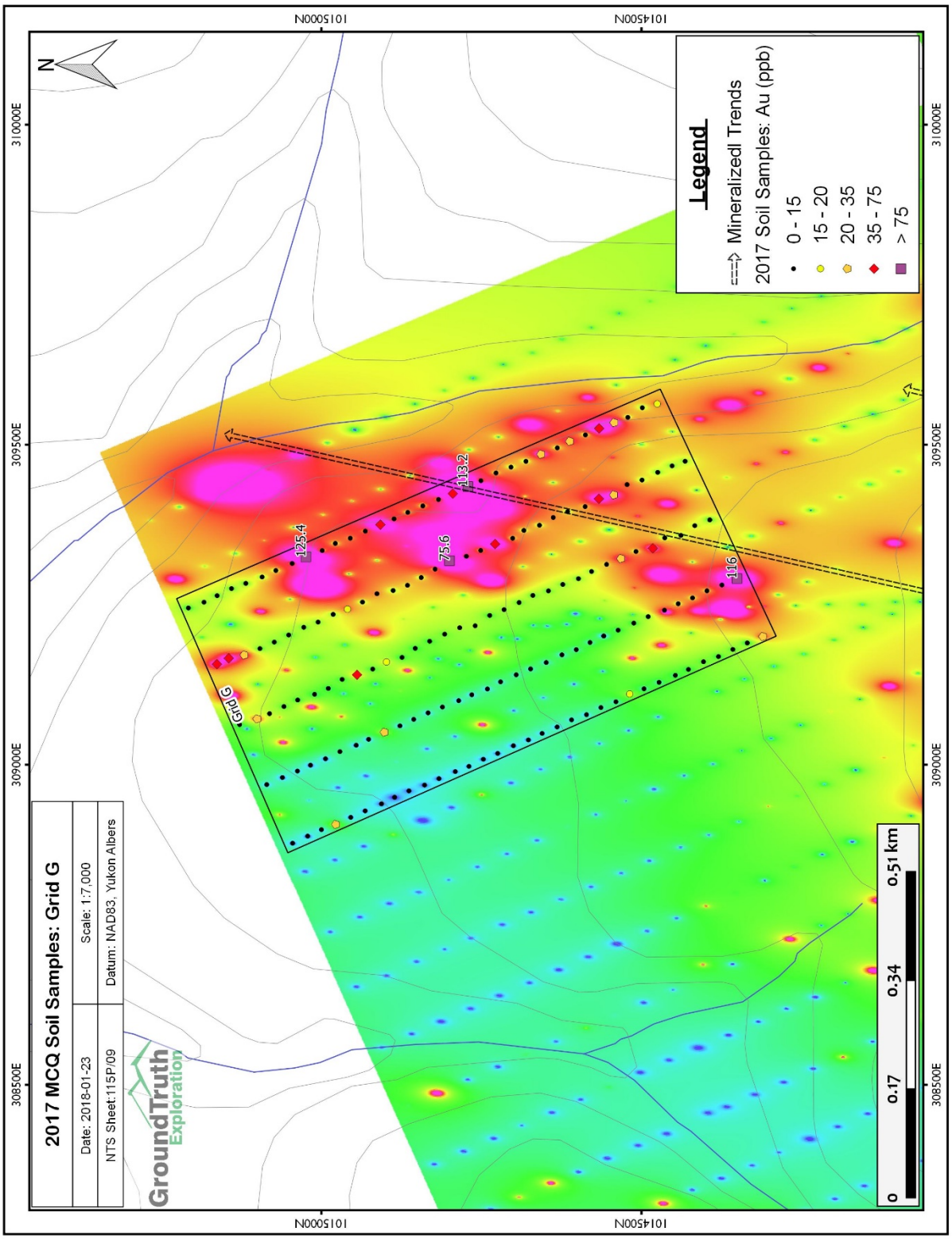


Figure 13: Compiled soil samples, Grid G

4.4 Interpretation

The 2017 detail infill grids further confirmed and delineated the NNE trends seen throughout the property (Figure 14). Figure 14 shows alternating regions of low to medium to high background gold values. Throughout these zones, the north-north-east trend is seen in elevated mineralization trends, and in breaks in mineralization. The gold-in-soil mineralized trend is composed of many linear, parallel features, indicating that it is structurally controlled. These may be secondary faulting splays from the northeast striking fault mapped by the YGS and seen in figure 3, or they may have the same origin as this mapped fault.

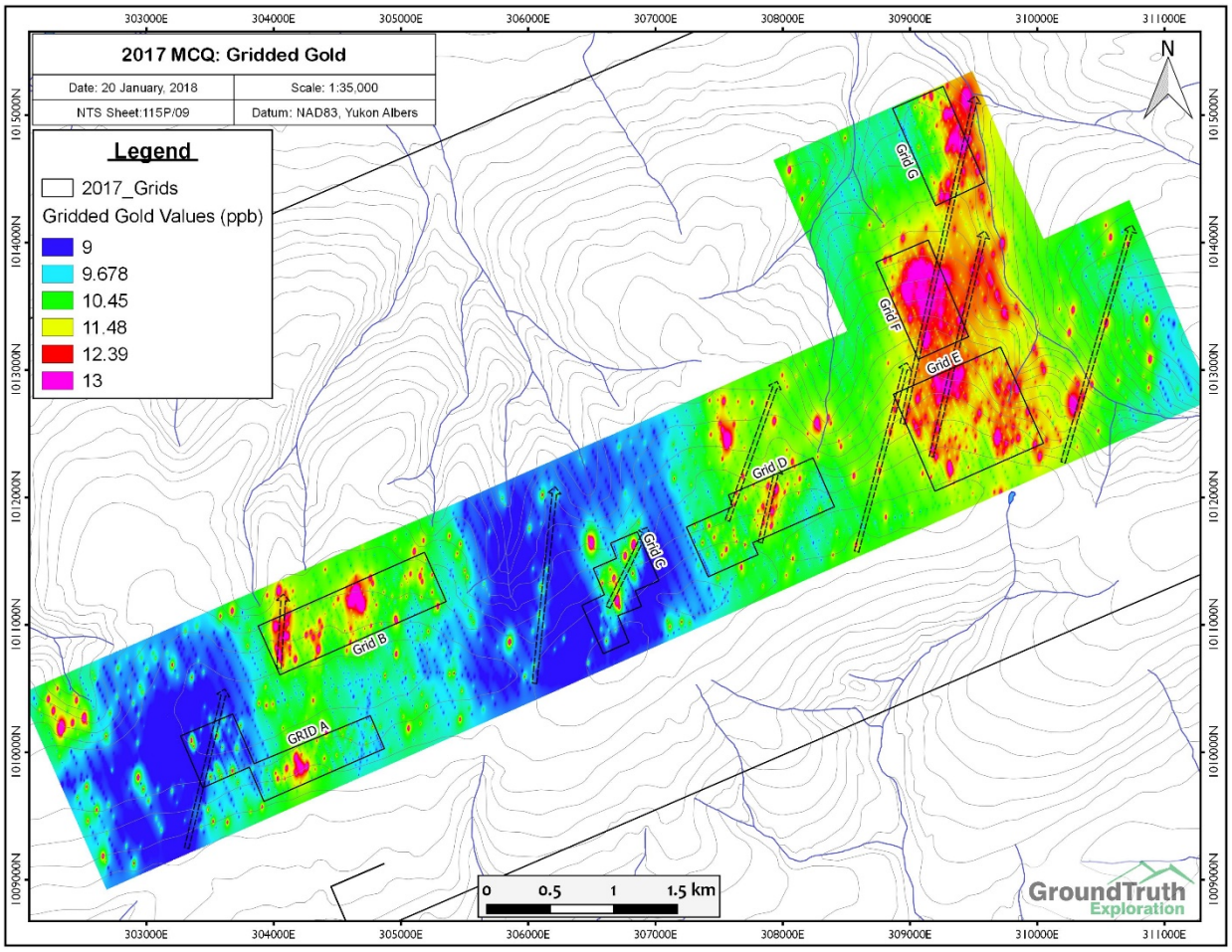


Figure 14: Grid of compiled soils (2011-2017), 2017 work outlined and mineralized trends indicated.

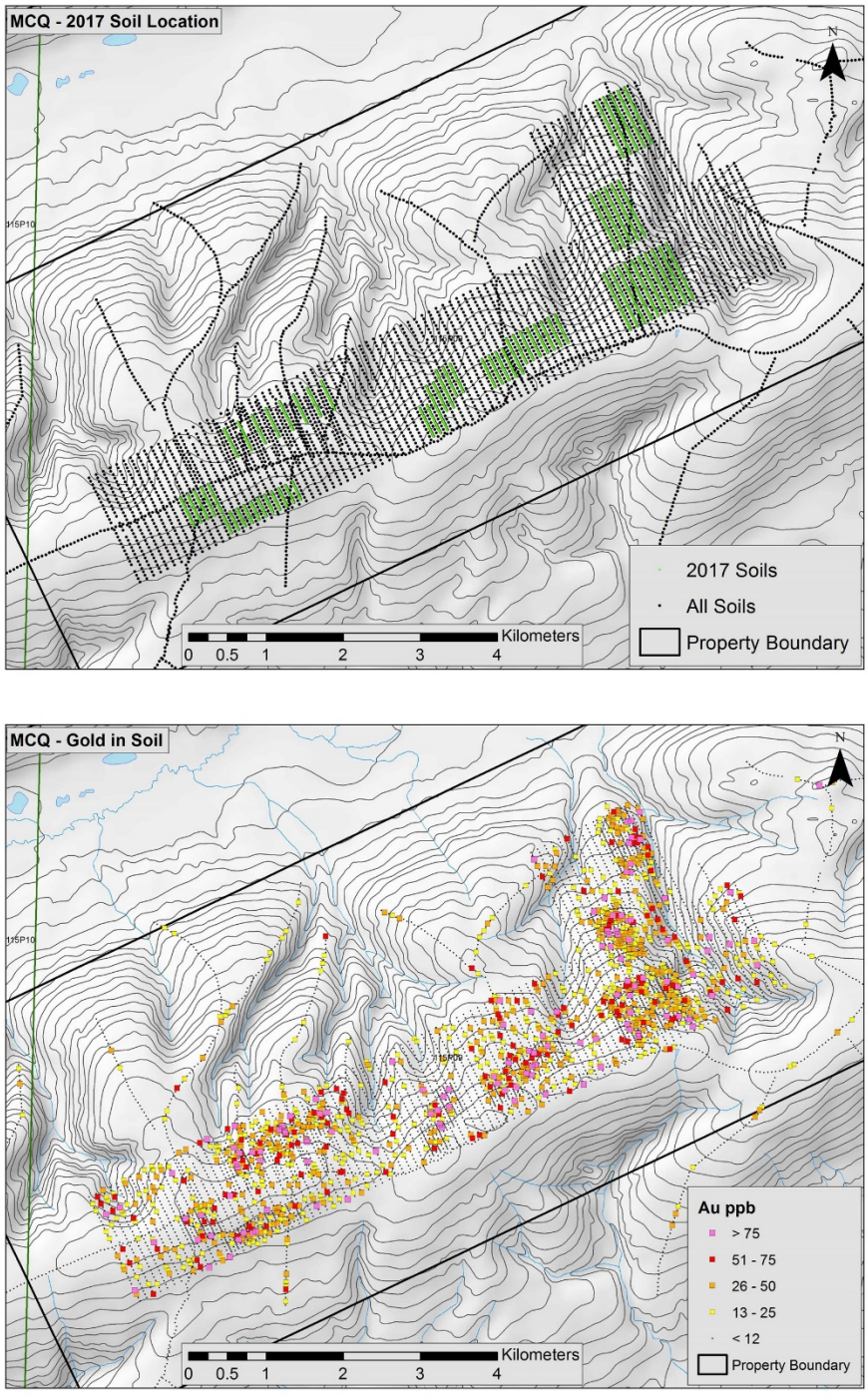
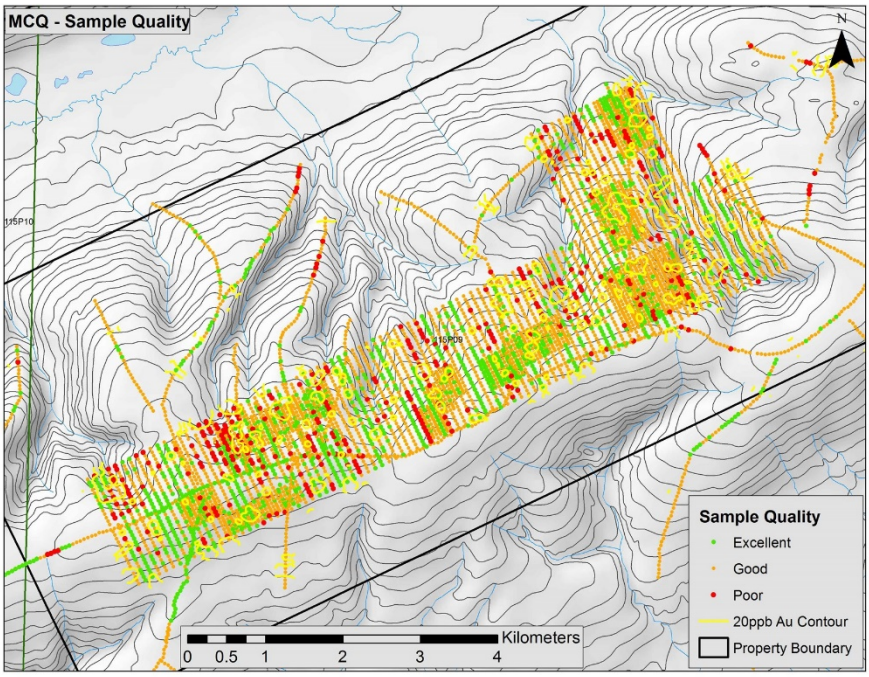


Figure 15-16: 2017 Infill Grid Sampling location (15) and compiled gold in soil map (16)

Figure17-18: Gold in Soil Contour on Sample Depth (17) and Sample Horizon (18)



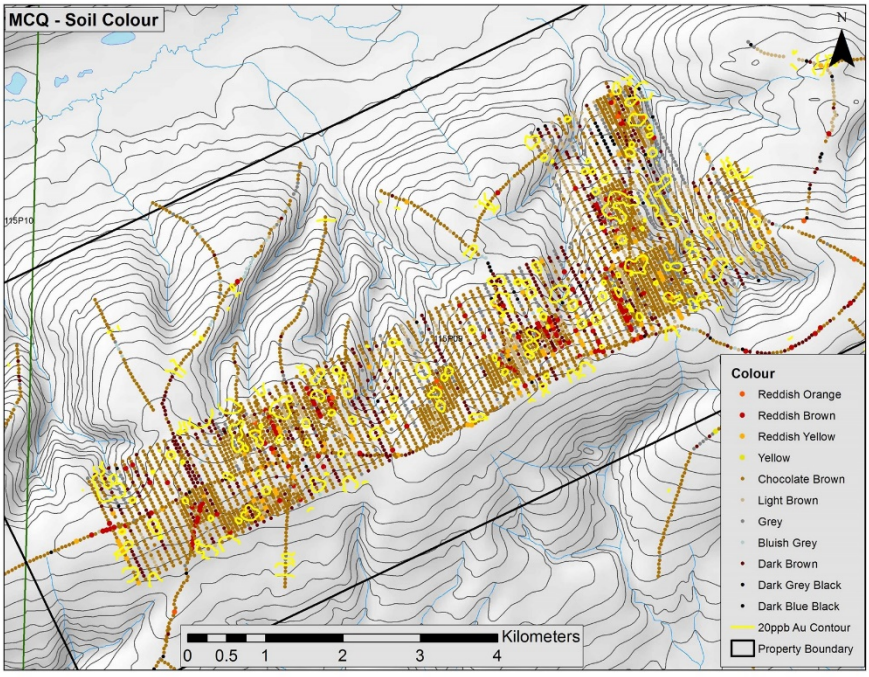


Figure 19-20: Gold in Soil Contour on Sample Quality (19) and Sample Colour (20)

Sample Description Overlay Maps:

2017 soil sampling infill grids were successful in further defining the soil anomalies in these locations. It is clear there is gold present in the system, however the anomaly is broad and it's signature is complex. It is useful to compare lab results with sampler descriptive notes to understand the sampling environment. Figure 17 shows contoured Au plotted over sample depth, which shows that deep sampling is required on this property, notably on the ridge tops and South facing slopes. Deeper samples to apprear to correlate with the gold anomaly. Figure 18 shows sample horizon where a large number of samples are noted as 'B' horizon. Sample Quality plotted on Figure 19 shows the majority of samples noted at 'Poor' were sampled on the historic grid on the north facing side of the ridge and in the margins of drainages. The plotted sample color on Figure 20 shows the majority of samples as chocolate brown, dark brown samples were predominantly on the north facing side of the grid and in margins of north facing drainages. Samples described as reddish brown and orange are present in clusters on the grid, but do not appear to be associated with gold in soil anomalies.

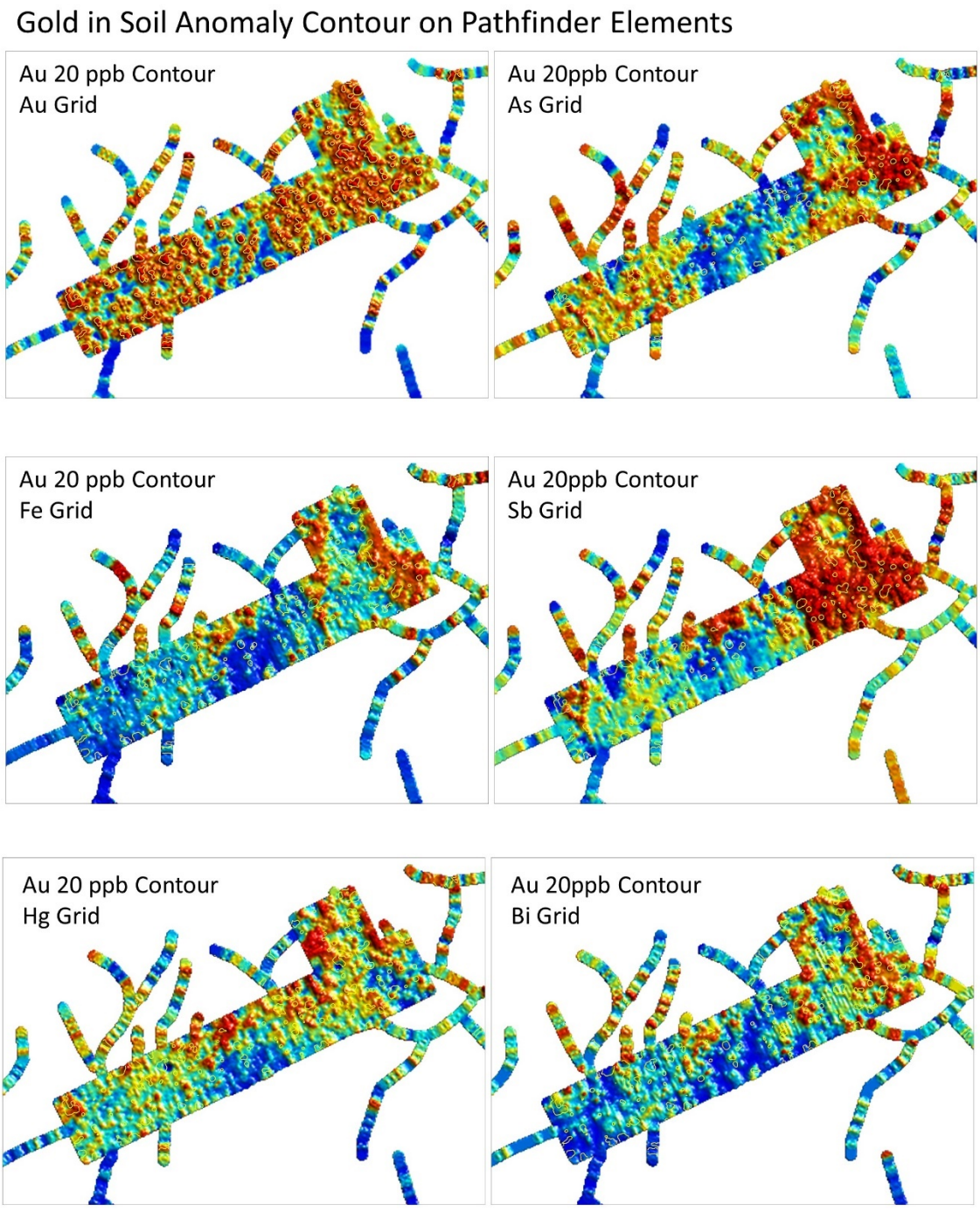


Figure 21: Gold in Soil Contour on Pathfinder Elements

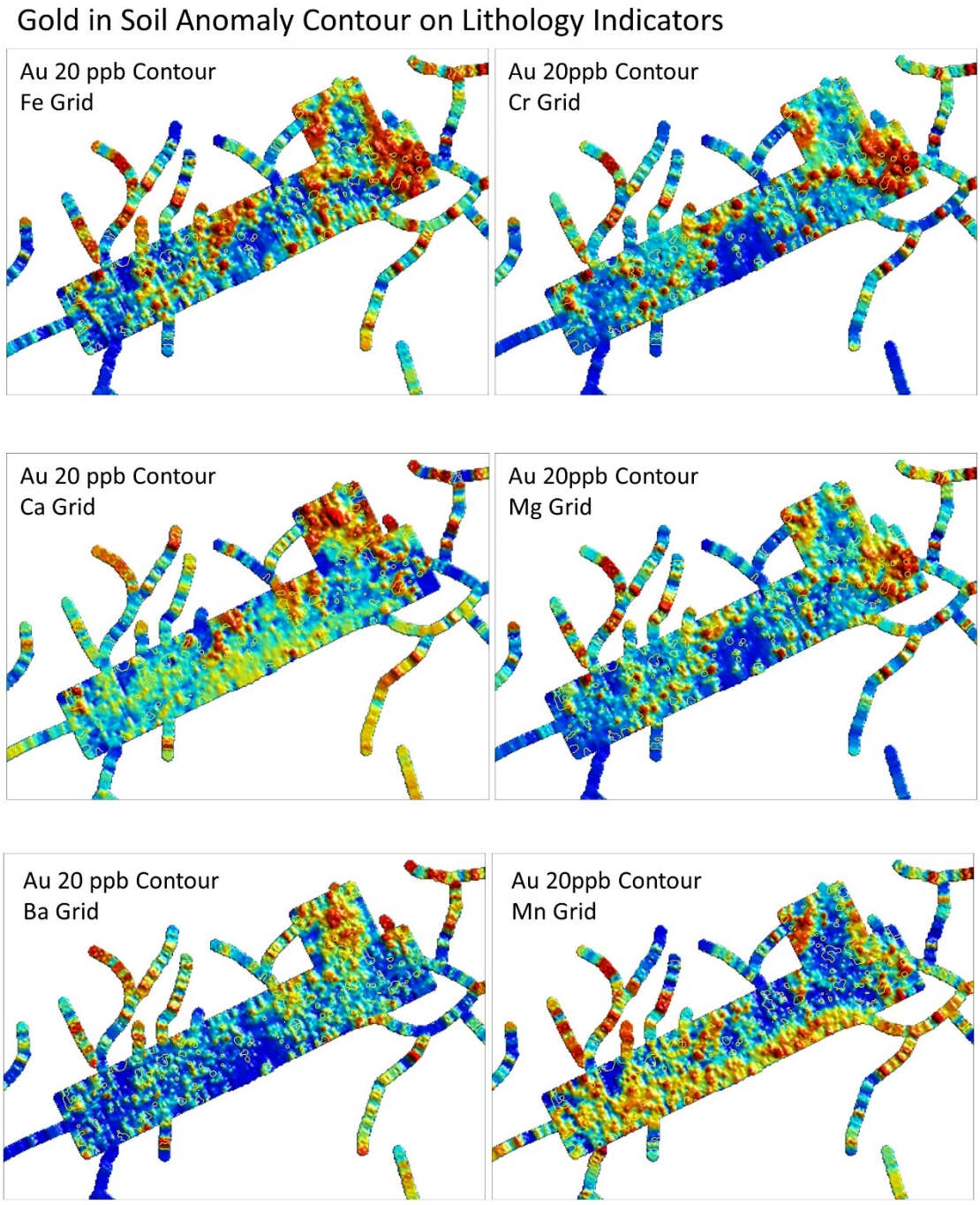


Figure 22: Gold in Soil Contour on Lithology Indicator Elements

Multi Element Overlay Maps:

Figure 21

Gold-Pathfinder overlay Figure 21 shows no consistent correlation between the nominal 20 ppb Au contour and gridded As. The predominant eastern Au anomaly sits along on the margin of the strongest N-S trending As anomaly. This described trend is also observed in the other gridded pathfinder elements on figure 21.

Figure 22

Gold-Lithology Indicator overlay Figure 22 shows a clear E-W trending lineament cutting through the Eastern Gold anomaly with Fe and Cr. Mn shows elevated levels on the southern and eastern zones of grid vs the north facing slopes.

5 Recommendations

1) Further analysis of multi element geochemistry and sample descriptions as well as inspection of sample photos to help characterize the gold in soil anomalies is recommended.

2) Acquisition of airborne geophysical data, primarily magnetic and electromagnetic surveys and high resolution imagery/topo is recommended to detect subsurface structural features and topographic liassociated with the gold in soil anomaly.

3) Acquisition of high resolution imagery/topo is recommended to aid in surficial geological mapping and detect any topographic lineaments associated with the gold in soil anomaly.

4) Recommended field work of geological mapping and prospecting is recommended to inspect anomalous soils, find and map outcrop on the property. Additionally, high resolution DC Resistivity/IP across soil anomalies should be employed to detect near surface structures under the anomalies. This should be followed by GT Probe bedrock interface sampling to test the bedrock in the targeted zones.

6 Expenditures

Soil Sampling: 1392 soil samples
GroundTruth Exploration Inc.
GT-MCQ2017-02 1,392@ $45/sample (collection + BV assay) **$62,640.00**

Helicopter: Aug 16-21 sampling +ferries: 10.3h
Trans North Helicopters, Astar D2
10.3 hours @ $1,850/h wet **$19,055.00**

Truck Rental: 5 days* 2 trucks
GroundTruth Exploration Inc.
10 rental days @ $150/day, 1,000 km @ $0.75/km fuel **$ 2,250.00**

Report:
GroundTruth Exploration Inc.: **$ 1000.00**

Grand total **$ 84,945.00**

7 Qualification

I, Isaac Fage have been president and operations manager of GroundTruth Exploration in Dawson City since May 2010. I have overseen the planning and collection of +400,000 + soil samples across numerous projects in Yukon Territory, Nunavut and Eastern Canada. I have worked continuously in Mineral Exploration since 2004. I hold an advanced diploma in Remote Sensing from the Centre of Geographic Sciences in Lawrencetown, Nova Scotia.

I have overseen the survey work described in this report on the North Regional, and reviewed this report prepared by Chad Cote.

Dated this 31st day of January, 2018 in Dawson, YT.

Respectfully submitted

Isaac Fage

Appendix A: Soil Sample Location and Description

Appendix A : Soil Sample Location and Description

sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1478187	VV01	8/20/2017 0:00	08N	428105	7044765		1204	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Clay	Quartz Chips
1495041	VV01	8/20/2017 0:00	08N	428126	7044720		1193	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Fine	
1495045	VV01	8/20/2017 0:00	08N	428148	7044674		1184	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Quartz Chips
1495046	VV01	8/20/2017 0:00	08N	428136	7044698		1189	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Quartz Chips
1495047	VV01	8/20/2017 0:00	08N	428114	7044743		1198	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Fine	Sandy
1515770	TL01	8/16/2017 0:00	08N	433912	7047457		1133	Auger	60	C	Pronounced Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Dry	Good	Sand	Rocky Sample	Rocky Terrain
1515771	TL01	8/16/2017 0:00	08N	433902	7047478		1130	Auger	80	C	Pronounced Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1515772	TL01	8/16/2017 0:00	08N	433893	7047502		1126	Auger	70	C	Pronounced Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1515773	TL01	8/16/2017 0:00	08N	433881	7047524		1123	Auger	70	C	Pronounced Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1515774	TL01	8/18/2017 0:00	08N	433461	7049522		785	Auger	60	C	Steep	Chocolate Brown	White Spruce	Leaf Cover	Dry	Good	Sand		
1515775	TL01	8/18/2017 0:00	08N	433461	7049522	1515774	785	Auger	60	C	Steep	Chocolate Brown	White Spruce	Leaf Cover	Dry	Good	Sand		
1515876	TL01	8/16/2017 0:00	08N	433870	7047547		1119	Auger	60	C	Pronounced Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1515877	TL01	8/16/2017 0:00	08N	433859	7047571		1115	Auger	70	C	Pronounced Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1515878	TL01	8/16/2017 0:00	08N	433847	7047591		1112	Auger	60	C	Pronounced Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Wet	Good	Sand	Fine	Rocky Sample
1515879	TL01	8/16/2017 0:00	08N	433837	7047616		1106	Auger	80	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Fine	Rocky Sample
1515880	TL01	8/16/2017 0:00	08N	433826	7047637		1102	Auger	60	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Fine	Rocky Sample
1515881	TL01	8/16/2017 0:00	08N	433815	7047660		1093	Auger	70	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Partially Frozen	Rocky Sample
1515882	TL01	8/16/2017 0:00	08N	433803	7047682		1082	Auger	60	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Thin Moss Cover	Dry	Good	Sand	Partially Frozen	Organic 10%
1515883	TL01	8/16/2017 0:00	08N	433793	7047705		1074	Auger	80	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Partially Frozen	Rocky Sample
1515884	TL01	8/16/2017 0:00	08N	433781	7047727		1066	Auger	80	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Partially Frozen	Rocky Terrain
1515885	TL01	8/16/2017 0:00	08N	433771	7047749		1058	Auger	70	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Rocky Sample	Rocky Terrain
1515886	TL01	8/16/2017 0:00	08N	433759	7047772		1047	Auger	100	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Partially Frozen	Organic 10%
1515887	TL01	8/16/2017 0:00	08N	433748	7047794		1038	Auger	70	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Partially Frozen	Organic 10%
1515888	TL01	8/16/2017 0:00	08N	433738	7047816		1030	Auger	90	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Bare Soil	Damp	Good	Sand	Partially Frozen	Possible Creek Contamination
1515889	TL01	8/16/2017 0:00	08N	433729	7047838		1023	Auger	60	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Partially Frozen	Organic 10%
1515890	TL01	8/16/2017 0:00	08N	433716	7047861		1019	Auger	80	C	Pronounced Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1515891	TL01	8/16/2017 0:00	08N	433707	7047885		1016	Auger	80	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Sand	Fine	Rocky Sample
1515892	TL01	8/16/2017 0:00	08N	433696	7047906		1011	Auger	80	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Dry	Good	Silt	Fine	Rocky Sample
1515893	TL01	8/16/2017 0:00	08N	433684	7047927		1017	Auger	80	C	Pronounced Slope	Light Bluish Grey	Mixed Coniferous	Thin Moss Cover	Dry	Good	Sand	Fine	Rocky Sample
1515894	TL01	8/16/2017 0:00	08N	433674	7047951		1015	Auger	90	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Dry	Good	Sand	Possible Creek Contamination	Rocky Sample
1515895	TL01	8/16/2017 0:00	08N	433661	7047974		1021	Auger	60	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1515896	TL01	8/16/2017 0:00	08N	433652	7047995		1025	Auger	50	C	Pronounced Slope	Chocolate Brown	White Spruce	Reindeer Moss	Dry	Good	Sand	Rocky Sample	Rusty Rock Chip
1515897	TL01	8/16/2017 0:00	08N	433639	7048021		1033	Auger	70	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1515898	TL01	8/16/2017 0:00	08N	433629	7048042		1033	Auger	50	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1515899	TL01	8/16/2017 0:00	08N	433617	7048066		1033	Auger	70	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Silt	Fine	Rocky Sample
1515900	TL01	8/16/2017 0:00	08N	433617	7048066	1515899	1033	Auger	70	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Silt	Fine	Rocky Sample
1515901	TL01	8/16/2017 0:00	08N	433606	7048088		1029	Auger	90	C	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1515902	TL01	8/16/2017 0:00	08N	433596	7048110		1025	Auger	70	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1515903	TL01	8/16/2017 0:00	08N	433584	7048132		1022	Auger	60	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Fine	Rocky Sample
1515904	TL01	8/16/2017 0:00	08N	433574	7048155		1019	Auger	70	C	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1515905	TL01	8/16/2017 0:00	08N	433563	7048176		1015	Auger	60	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1515906	TL01	8/18/2017 0:00	08N	433113	7050240		733	Auger	80	C	Pronounced Slope	Chocolate Brown	White Spruce	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1515907	TL01	8/18/2017 0:00	08N	433123	7050216		731	Auger	80	C	Pronounced Slope	Chocolate Brown	White Spruce	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1515908	TL01	8/18/2017 0:00	08N	433134	7050196		734	Auger	70	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Silt	Fine	Rocky Sample
1515909	TL01	8/18/2017 0:00	08N	433146	7050174		740	Auger	90	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1515910	TL01	8/18/2017 0:00	08N	433155	7050152		747	Auger	70	C	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Partially Frozen
1515911	TL01	8/18/2017 0:00	08N	433166	7050127		755	Auger	110	C	Pronounced Slope	Dark Blue Black	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1515912	TL01	8/18/2017 0:00	08N	433177	7050106		763	Auger	110	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1515913	TL01	8/18/2017 0:00	08N	433189	7050081		766	Auger	60	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1515914	TL01	8/18/2017 0:00	08N	433200	7050060		770	Auger	60	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1515915	TL01	8/18/2017 0:00	08N	433211	7050035		774	Auger	60	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1515916	TL01	8/18/2017 0:00	08N	433223	7050015		775	Auger	60	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1515917	TL01	8/18/2017 0:00	08N	433232	7049992		778	Auger	50	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1515918	TL01	8/18/2017 0:00	08N	433244	7049969		779	Auger	60	C	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1515919	TL01	8/18/2017 0:00	08N	433255	7049946		779	Auger	60	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Silt	Fine	Rocky Sample
1515920	TL01	8/18/2017 0:00	08N	433265	7049925		778	Auger	40	C	Subtle Slope	Chocolate Brown	White Spruce	Reindeer Moss	Dry	Good	Sand	Rocky Sample	Rocky Terrain
1515921	TL01	8/18/2017 0:00	08N	433276	7049904		777	Auger	60	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Silt	Rocky Sample	Rocky Terrain
1515922	TL01	8/18/2017 0:00	08N	433287	7049881		779	Auger	60	C	Subtle Slope	Light Bluish Grey	Mixed Coniferous	Reindeer Moss	Dry	Good	Silt	Rocky Sample	Rocky Terrain
1515923	TL01	8/18/2017 0:00	08N	433298	7049857		782	Auger	50	C	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Silt	Rocky Sample	Rocky Terrain
1532884	DB02	8/18/2017 0:00	08N	433061	7048291		1040	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Wet Soil	Quartz Chips
1532885	DB02	8/18/2017 0:00	08N	433049	7048313		1040	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Clay	
1532886	DB02	8/18/2017 0:00	08N	433037	7048335		1022	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Clay	Wet Soil	
1532887	DB02	8/18/2017 0:00	08N	433027	7048359		1020	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Wet	Good	Clay	Wet Soil	
1532888	DB02	8/18/2017 0:00	08N	433016	7048381		1015	Auger	70	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand		
1532889	DB02	8/18/2017 0:00	08N	433005	7048403		1017	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Clay	Sandy	
1532890	DB02	8/18/2017 0:00	08N	432994	7048426		1016	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Dry	Excellent	Sand	Clay	
1532891	DB02	8/18/2017 0:00	08N	432983	7048447		1014	Auger	80	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1532892	DB02	8/18/2017 0:00	08N	432972	7048470		989	Auger	40	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1532893	DB02	8/18/2017 0:00	08N	432961	7048494		1004	Auger	110	C	Subtle Slope	Bluish Grey	Subalpine Fir	Thin Moss Cover	Dry	Excellent	Sand		
1532894	DB02	8/18/2017 0:00	08N	432949	7048517		1000	Auger	80	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Sandy	Bright Orange Rust
1532895	DB02	8/18/2017 0:00	08N	432938	7048539		985	Auger	110	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Clay	Rusty Rock Chip
1532896	DB02	8/18/2017 0:00	08N	432928	7048562		983	Auger	50	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Bright Orange Rust	
1532897	DB02	8/18/2017 0:00	08N	432917	7048583		973	Auger	90	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Bright Orange Rust	
1532898	DB02	8/18/2017 0:00	08N	432906	7048605		975	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Dry	Excellent	Sand		
1532899	DB02	8/18/2017 0:00	08N	432896	7048628		969	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Bright Orange Rust	
1532900	DB02	8/18/2017 0:00	08N	432896	7048628	1532899	976	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Bright Orange Rust	
1537537	AA03	8/18/2017 0:00	08N	433294	7048268		1032	Auger	100	C	Pronounced Slope	Chocolate Brown	White Spruce	Reindeer Moss	Damp	Good	Silt	Clay	
1537538	AA03	8/18/2017 0:00	08N	433284	7048287		1029	Auger	60	C	Pronounced Slope	Chocolate Brown	White Spruce	Reindeer Moss	Damp	Excellent	Sand	Rocky Sample	Quartz Chips
1537539	AA03	8/18/2017 0:00	08N	433273	7048311		1027	Auger	70	C	Pronounced Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Sand	Coarse	Rocky Sample
1537540	AA03	8/18/2017 0:00	08N	433261	7048333		1023	Auger	110	C	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Sandy	Bright Orange Rust
1537541	AA03	8/18/2017 0:00	08N	433251	7048356		1019	Auger	100	C	Pronounced Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Sand	Bright Orange Rust	
1537542	AA03	8/18/2017 0:00	08N	433240	7048379		1014	Auger	80	C	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Bright Orange Rust	
1537543	AA03	8/18/2017 0:00	08N	433228	7048400		1008	Auger	80	C	Pronounced Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Bright Orange Rust	Quartz Chips

sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1537544	AA03	8/18/2017 0:00	08N	433217	7048423		1002	Auger	80	C	Pronounced Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Sand	Coarse	Bright Orange Rust
1537545	AA03	8/18/2017 0:00	08N	433206	7048445		997	Auger	90	C	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Coarse	Bright Orange Rust
1537546	AA03	8/18/2017 0:00	08N	433196	7048468		991	Auger	80	C	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Coarse	
1537547	AA03	8/18/2017 0:00	08N	433185	7048490		986	Auger	110	C	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Bright Orange Rust	Quartz Chips
1537548	AA03	8/18/2017 0:00	08N	433173	7048514		980	Auger	100	C	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Bright Orange Rust	
1537549	AA03	8/18/2017 0:00	08N	433162	7048536		975	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Bright Orange Rust	
1537550	AA03	8/18/2017 0:00	08N	433162	7048536	1537549	975	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Bright Orange Rust	
1537551	AA03	8/18/2017 0:00	08N	433152	7048558		970	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Sandy	Bright Orange Rust
1537552	AA03	8/18/2017 0:00	08N	433141	7048580		966	Auger	80	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Sand	Sandy	Bright Orange Rust
1537553	AA03	8/18/2017 0:00	08N	433130	7048603		960	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	Bright Orange Rust
1537554	AA03	8/18/2017 0:00	08N	433119	7048625		956	Auger	110	C	Subtle Slope	Chocolate Brown	Black Spruce	Thin Moss Cover	Damp	Excellent	Sand	Quartz Chips	
1537555	AA03	8/18/2017 0:00	08N	433107	7048649		953	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Sandy	
1537556	AA03	8/18/2017 0:00	08N	433097	7048671		948	Auger	80	C	Subtle Slope	Chocolate Brown	Black Spruce	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537557	AA03	8/18/2017 0:00	08N	433085	7048693		941	Auger	110	C	Subtle Slope	Chocolate Brown	Black Spruce	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537558	AA03	8/18/2017 0:00	08N	433075	7048716		938	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537559	AA03	8/18/2017 0:00	08N	433064	7048738		933	Auger	80	C	Subtle Slope	Chocolate Brown	Black Spruce	Thin Moss Cover	Damp	Excellent	Sand	Sandy	Bright Orange Rust
1537560	AA03	8/18/2017 0:00	08N	433053	7048761		929	Auger	80	C	Subtle Slope	Chocolate Brown	Black Spruce	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537561	AA03	8/18/2017 0:00	08N	433042	7048783		923	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537562	AA03	8/18/2017 0:00	08N	433031	7048806		919	Auger	90	C	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	Quartz Chips
1537563	AA03	8/18/2017 0:00	08N	433020	7048828		916	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Sand	Quartz Chips	Rocky Sample
1537564	AA03	8/18/2017 0:00	08N	433009	7048851		913	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Sandy	Bright Orange Rust
1537565	AA03	8/18/2017 0:00	08N	432998	7048874		911	Auger	110	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Sand	Sandy	Bright Orange Rust
1537566	AA03	8/18/2017 0:00	08N	432986	7048897		907	Auger	100	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Sandy	Bright Orange Rust
1537567	AA03	8/18/2017 0:00	08N	432977	7048918		905	Auger	90	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Sand	Sandy	Dull Red Rust
1537568	AA03	8/18/2017 0:00	08N	432965	7048941		901	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Quartz Chips	Sandy
1537569	AA03	8/18/2017 0:00	08N	432955	7048963		898	Auger	80	C	Subtle Slope	Chocolate Brown	Black Spruce	Thin Moss Cover	Damp	Excellent	Sand	Quartz Chips	Sandy
1537570	AA03	8/18/2017 0:00	08N	432943	7048986		894	Auger	70	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Sand	Sandy	
1537571	AA03	8/19/2017 0:00	08N	431710	7046497		1221	Auger	110	C	Flat	Chocolate Brown	White Spruce	Thin Moss Cover	Damp	Excellent	Sand	Coarse	
1537572	AA03	8/19/2017 0:00	08N	431701	7046518		1221	Auger	100	C	Flat	Chocolate Brown	White Spruce	Thin Moss Cover	Damp	Excellent	Sand	Coarse	
1537573	AA03	8/19/2017 0:00	08N	431689	7046540		1219	Auger	90	C	Subtle Slope	Chocolate Brown	White Spruce	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537574	AA03	8/19/2017 0:00	08N	431678	7046563		1216	Auger	80	C	Subtle Slope	Chocolate Brown	White Spruce	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537575	AA03	8/19/2017 0:00	08N	431678	7046563	1537574	1216	Auger	80	C	Subtle Slope	Chocolate Brown	White Spruce	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537576	AA03	8/19/2017 0:00	08N	431667	7046586		1210	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	Coarse
1537577	AA03	8/19/2017 0:00	08N	431656	7046608		1206	Auger	70	C	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	Rusty Rock Chip
1537578	AA03	8/19/2017 0:00	08N	431645	7046631		1202	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Coarse	
1537579	AA03	8/19/2017 0:00	08N	431634	7046653		1198	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Coarse	Sandy
1537580	AA03	8/19/2017 0:00	08N	431623	7046676		1193	Auger	60	C	Subtle Slope	Chocolate Brown	White Spruce	Thin Moss Cover	Damp	Good	Sand	Sandy	Dull Red Rust
1537581	AA03	8/19/2017 0:00	08N	431612	7046699		1189	Auger	80	C	Subtle Slope	Chocolate Brown	White Spruce	Thin Moss Cover	Damp	Excellent	Sand	Coarse	
1537582	AA03	8/19/2017 0:00	08N	431601	7046721		1184	Auger	90	C	Subtle Slope	Chocolate Brown	White Spruce	Thin Moss Cover	Damp	Excellent	Sand	Coarse	
1537583	AA03	8/19/2017 0:00	08N	431591	7046744		1180	Auger	80	C	Subtle Slope	Chocolate Brown	White Spruce	Thin Moss Cover	Damp	Excellent	Sand	Coarse	
1537584	AA03	8/19/2017 0:00	08N	431579	7046767		1177	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Rusty Rock Chip	Sandy
1537585	AA03	8/19/2017 0:00	08N	431568	7046788		1174	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537586	AA03	8/19/2017 0:00	08N	431557	7046811		1171	Auger	100	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Coarse	Quartz Chips
1537587	AA03	8/19/2017 0:00	08N	431546	7046833		1168	Auger	80	C	Subtle Slope	Reddish Brown	White Spruce	Thin Moss Cover	Damp	Excellent	Sand	Bright Orange Rust	Sandy
1537588	AA03	8/19/2017 0:00	08N	431535	7046856		1166	Auger	70	C	Subtle Slope	Light Brown	White Spruce	Thin Moss Cover	Damp	Excellent	Sand	Bright Orange Rust	Sandy
1537589	AA03	8/19/2017 0:00	08N	431445	7046812		1165	Auger	110	C	Subtle Slope	Light Bluish Grey	White Spruce	Reindeer Moss	Damp	Excellent	Sand	Bright Orange Rust	Sandy
1537590	AA03	8/19/2017 0:00	08N	431456	7046791		1168	Auger	110	C	Subtle Slope	Chocolate Brown	White Spruce	Reindeer Moss	Damp	Excellent	Sand	Coarse	Bright Orange Rust
1537591	AA03	8/19/2017 0:00	08N	431467	7046768		1172	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	Bright Orange Rust
1537592	AA03	8/19/2017 0:00	08N	431478	7046745		1176	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537593	AA03	8/19/2017 0:00	08N	431489	7046723		1180	Auger	70	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Coarse	Quartz Chips
1537594	AA03	8/19/2017 0:00	08N	431499	7046700		1183	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537595	AA03	8/19/2017 0:00	08N	431510	7046679		1187	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537596	AA03	8/19/2017 0:00	08N	431521	7046655		1192	Auger	60	C	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Coarse	Sandy
1537597	AA03	8/19/2017 0:00	08N	431533	7046633		1195	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537598	AA03	8/19/2017 0:00	08N	431544	7046610		1199	Auger	70	C	Subtle Slope	Chocolate Brown	White Spruce	Thin Moss Cover	Damp	Good	Sand	Sandy	
1537599	AA03	8/19/2017 0:00	08N	431555	7046588		1205	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Sandy	Rocky Terrain
1537600	AA03	8/19/2017 0:00	08N	431555	7046588	1537599	1205	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Sandy	Rocky Terrain
1537601	AA03	8/19/2017 0:00	08N	431566	7046566		1208	Auger	80	C	Subtle Slope	Chocolate Brown	Dwarf Birch	Thin Moss Cover	Damp	Excellent	Sand	Coarse	
1537602	AA03	8/19/2017 0:00	08N	431577	7046543		1211	Auger	60	C	Subtle Slope	Chocolate Brown	White Spruce	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537603	AA03	8/19/2017 0:00	08N	431587	7046521		1213	Auger	60	B	Subtle Slope	Chocolate Brown	Dwarf Birch	Thin Moss Cover	Damp	Good	Sand	Sandy	
1537604	AA03	8/19/2017 0:00	08N	431598	7046498		1217	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537605	AA03	8/19/2017 0:00	08N	431610	7046475		1220	Auger	90	C	Flat	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	Dull Red Rust
1537606	AA03	8/19/2017 0:00	08N	431620	7046453		1224	Auger	80	C	Flat	Chocolate Brown	Dwarf Birch	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537626	AA03	8/20/2017 0:00	08N	428921	7044912		1197	Auger	60	B	Pronounced Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Sandy	
1537627	AA03	8/20/2017 0:00	08N	428911	7044934		1204	Auger	60	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Sandy	
1537628	AA03	8/20/2017 0:00	08N	428899	7044956		1208	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Sandy	
1537629	AA03	8/20/2017 0:00	08N	428888	7044979		1211	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Bare Soil	Damp	Good	Sand	Sandy	
1537630	AA03	8/20/2017 0:00	08N	428878	7045001		1212	Auger	50	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Sandy	Rocky Terrain
1537631	AA03	8/20/2017 0:00	08N	428866	7045024		1215	Auger	90	C	Subtle Slope	Light Brown	Subalpine Fir	Bare Soil	Damp	Excellent	Sand	Coarse	Sandy
1537632	AA03	8/20/2017 0:00	08N	428855	7045047		1220	Auger	90	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Coarse	
1537633	AA03	8/20/2017 0:00	08N	428845	7045069		1223	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Bare Soil	Damp	Excellent	Sand	Coarse	Sandy
1537634	AA03	8/20/2017 0:00	08N	428834	7045092		1226	Auger	60	B	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Sandy	
1537635	AA03	8/20/2017 0:00	08N	428823	7045114		1228	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Sandy	
1537636	AA03	8/20/2017 0:00	08N	428812	7045137		1230	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Coarse	Dull Red Rust
1537637	AA03	8/20/2017 0:00	08N	428722	7045092		1228	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Sandy	Bright Orange Rust
1537638	AA03	8/20/2017 0:00	08N	428832	7044868		1194	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Coarse	Quartz Chips
1537639	AA03	8/20/2017 0:00	08N	428821	7044891		1199	Auger	80	C	Subtle Slope	Grey	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Coarse	
1537640	AA03	8/20/2017 0:00	08N	428809	7044913		1203	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Sandy	
1537641	AA03	8/20/2017 0:00	08N	428798	7044937		1207	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Coarse	
1537642	AA03	8/20/2017 0:00	08N	428787	7044959		1210	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Sandy	Quartz Chips
1537643	AA03	8/20/2017 0:00	08N	428777	7044981		1213	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	Quartz Chips
1537644	AA03	8/20/2017 0:00	08N	428766	7045004		1217	Auger	70	C	Subtle Slope	Grey	Subalpine Fir	Bare Soil	Damp	Excellent	Sand	Coarse	Bright Orange Rust
1537645	AA03	8/20/2017 0:00	08N	428755	7045026		1221	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Sandy	
1537646	AA03	8/20/2017 0:00	08N	428744	7045049		1224	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Sandy	
1537647	AA03	8/20/2017 0:00	08N	428733	7045071		1227	Auger	60	B	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	

sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1537648	AA03	8/20/2017 0:00	08N	428742	7044825		1189	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Sandy	Dull Red Rust
1537649	AA03	8/20/2017 0:00	08N	428632	7045049		1222	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Coarse	Quartz Chips
1537650	AA03	8/20/2017 0:00	08N	428632	7045049	1537649	1222	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Coarse	Quartz Chips
1537651	AA03	8/20/2017 0:00	08N	428731	7044848		1194	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	Dull Red Rust
1537652	AA03	8/20/2017 0:00	08N	428720	7044869		1198	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Coarse	
1537653	AA03	8/20/2017 0:00	08N	428708	7044892		1199	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Coarse	Dull Red Rust
1537654	AA03	8/20/2017 0:00	08N	428698	7044915		1203	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Sandy	
1537655	AA03	8/20/2017 0:00	08N	428687	7044937		1207	Auger	110	C	Subtle Slope	Pale Greenish	White Spruce	Thin Moss Cover	Damp	Excellent	Sand	Coarse	
1537656	AA03	8/20/2017 0:00	08N	428676	7044959		1209	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Coarse	
1537657	AA03	8/20/2017 0:00	08N	428666	7044981		1210	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss > 30cm	Damp	Good	Sand	Rocky Sample	Bright Orange Rust
1537658	AA03	8/20/2017 0:00	08N	428655	7045004		1212	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Coarse	
1537659	AA03	8/20/2017 0:00	08N	428643	7045027		1215	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Sandy	
1537676	DB02	8/20/2017 0:00	08N	428646	7046172		1180	Auger	110	B	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Dry	Good	Silt	Sandy	
1537677	DB02	8/20/2017 0:00	08N	428657	7046150		1180	Auger	50	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Rocky Terrain	
1537678	DB02	8/20/2017 0:00	08N	428668	7046128		1187	Auger	60	B	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	
1537679	DB02	8/20/2017 0:00	08N	428679	7046105		1194	Auger	70	C	Subtle Slope	Grey	Subalpine Fir	Bare Soil	Damp	Good	Sand		
1537680	DB02	8/20/2017 0:00	08N	428690	7046082		1208	Auger	60	B	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	
1537681	DB02	8/20/2017 0:00	08N	428701	7046060		1190	Auger	60	B	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	
1537682	DB02	8/20/2017 0:00	08N	428712	7046038		1195	Auger	60	B	Subtle Slope	Light Brown	Pine	Thin Moss Cover	Dry	Good	Silt	Sandy	
1537683	DB02	8/20/2017 0:00	08N	428722	7046015		1185	Auger	80	B	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	
1537684	DB02	8/20/2017 0:00	08N	428734	7045992		1196	Auger	50	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1537685	DB02	8/20/2017 0:00	08N	428743	7045970		1208	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	
1537686	DB02	8/20/2017 0:00	08N	428754	7045948		1211	Auger	60	B	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1537687	DB02	8/20/2017 0:00	08N	428767	7045925		1215	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1537688	DB02	8/20/2017 0:00	08N	428777	7045902		1220	Auger	50	B	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1537689	DB02	8/20/2017 0:00	08N	428788	7045881		1210	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	
1537690	DB02	8/20/2017 0:00	08N	428801	7045858		1189	Auger	70	C	Subtle Slope	Grey	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1537691	DB02	8/20/2017 0:00	08N	428810	7045835		1215	Auger	70	B	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	
1537692	DB02	8/20/2017 0:00	08N	428821	7045813		1219	Auger	100	B	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	
1537693	DB02	8/20/2017 0:00	08N	429001	7045900		1200	Auger	40	B	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	
1537694	DB02	8/20/2017 0:00	08N	428990	7045923		1199	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1537695	DB02	8/20/2017 0:00	08N	428979	7045945		1196	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Bright Orange Rust	
1537696	DB02	8/20/2017 0:00	08N	428969	7045968		1191	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand		
1537697	DB02	8/20/2017 0:00	08N	428957	7045989		1182	Auger	60	C	Subtle Slope	Light Brown	Pine	Reindeer Moss	Damp	Good	Silt	Sandy	
1537698	DB02	8/20/2017 0:00	08N	428947	7046012		1194	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Dry	Good	Sand		
1537699	DB02	8/20/2017 0:00	08N	428934	7046035		1192	Auger	50	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Dry	Good	Sand		
1537700	DB02	8/20/2017 0:00	08N	428934	7046035	1537699	1190	Auger	50	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Dry	Good	Sand		
1539001	LS01	8/16/2017 0:00	08N	433822	7047413		1158	Auger	50	C	Flat	Chocolate Brown	Balsam Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Sandy
1539002	LS01	8/16/2017 0:00	08N	433813	7047436		1153	Auger	80	C	Flat	Dark Olivine Green	Black Spruce	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Coarse
1539003	LS01	8/16/2017 0:00	08N	433801	7047458		1148	Auger	80	C	Subtle Slope	Dark Olivine Green	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Rusty Rock Chip
1539004	LS01	8/16/2017 0:00	08N	433792	7047481		1144	Auger	60	C	Flat	Greyish Green	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rusty Rock Chip	Sandy
1539005	LS01	8/16/2017 0:00	08N	433779	7047503		1138	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Coarse
1539006	LS01	8/16/2017 0:00	08N	433769	7047526		1134	Auger	80	C	Flat	Dark Olivine Green	Black Spruce	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Coarse
1539007	LS01	8/16/2017 0:00	08N	433757	7047548		1130	Auger	80	C	Flat	Dark Olivine Green	Black Spruce	Sphagnum Moss > 30cm	Wet	Good	Silt	Quartz Chips	
1539008	LS01	8/16/2017 0:00	08N	433745	7047570		1126	Auger	70	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Coarse
1539009	LS01	8/16/2017 0:00	08N	433736	7047591		1123	Auger	60	C	Subtle Slope	Dark Olivine Green	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Sand	Quartz Chips	
1539010	LS01	8/16/2017 0:00	08N	433725	7047616		1117	Auger	60	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Silt	Rocky Terrain	Small Sample
1539011	LS01	8/16/2017 0:00	08N	433714	7047638		1112	Auger	70	C	Flat	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Silt	Quartz Chips	Rusty Rock Chip
1539012	LS01	8/16/2017 0:00	08N	433704	7047660		1103	Auger	70	C	Subtle Slope	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Quartz Chips	Bright Orange Rust
1539013	LS01	8/16/2017 0:00	08N	433693	7047684		1093	Auger	60	C	Subtle Slope	Grey	Black Spruce	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Dull Red Rust	Quartz Chips
1539014	LS01	8/16/2017 0:00	08N	433679	7047705		1085	Auger	70	C	Flat	Grey	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Sand	Bright Orange Rust	
1539015	LS01	8/16/2017 0:00	08N	433668	7047728		1081	Auger	80	C	Flat	Chocolate Brown	Black Spruce	Sphagnum Moss > 30cm	Wet	Good	Silt	Rusty Rock Chip	Small Sample
1539016	LS01	8/16/2017 0:00	08N	433658	7047750		1075	Auger	80	C	Subtle Slope	Dark Olivine Green	Black Spruce	Sphagnum Moss > 30cm	Damp	Good	Sand	Dull Red Rust	Quartz Chips
1539017	LS01	8/16/2017 0:00	08N	433647	7047774		1071	Auger	80	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	
1539018	LS01	8/16/2017 0:00	08N	433637	7047795		1062	Auger	90	C	Flat	Chocolate Brown	Black Spruce	Sphagnum Moss > 30cm	Damp	Good	Sand	Bright Orange Rust	
1539019	LS01	8/16/2017 0:00	08N	433625	7047819		1065	Auger	100	C	Subtle Slope	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Rusty Rock Chip
1539020	LS01	8/16/2017 0:00	08N	433617	7047841		1063	Auger	70	C	Subtle Slope	Grey	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Quartz Chips
1539021	LS01	8/16/2017 0:00	08N	433603	7047863		1066	Auger	70	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Quartz Chips	Rusty Rock Chip
1539022	LS01	8/16/2017 0:00	08N	433593	7047886		1064	Auger	80	C	Flat	Grey	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Quartz Chips
1539023	LS01	8/16/2017 0:00	08N	433583	7047909		1066	Auger	50	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Quartz Chips
1539024	LS01	8/16/2017 0:00	08N	433473	7048133		1037	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Sand	Quartz Chips	Dull Red Rust
1539025	LS01	8/16/2017 0:00	08N	433473	7048133	1539024	1037	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Sand	Quartz Chips	
1539026	LS01	8/16/2017 0:00	08N	433483	7048113		1041	Auger	80	C	Flat	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Sandy
1539027	LS01	8/16/2017 0:00	08N	433494	7048091		1044	Auger	50	C	Flat	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Sand	Quartz Chips	Dull Red Rust
1539028	LS01	8/16/2017 0:00	08N	433505	7048067		1050	Auger	70	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Quartz Chips	Bright Orange Rust
1539029	LS01	8/16/2017 0:00	08N	433514	7048045		1053	Auger	60	C	Flat	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	
1539030	LS01	8/16/2017 0:00	08N	433529	7048023		1056	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Bright Orange Rust	
1539031	LS01	8/16/2017 0:00	08N	433536	7048000		1057	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Sandy
1539032	LS01	8/16/2017 0:00	08N	433548	7047977		1059	Auger	70	C	Subtle Slope	Grey	Black Spruce	Reindeer Moss	Damp	Good	Silt	Coarse	Organic 10%
1539033	LS01	8/16/2017 0:00	08N	433559	7047954		1062	Auger	60	C	Flat	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Quartz Chips
1539034	LS01	8/16/2017 0:00	08N	433568	7047931		1063	Auger	60	C	Flat	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Quartz Chips	Dull Red Rust
1539066	LS01	8/18/2017 0:00	08N	432934	7050153		753	Auger	60	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	
1539067	LS01	8/18/2017 0:00	08N	432944	7050126		761	Auger	60	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Organic 10%	Dull Red Rust
1539068	LS01	8/18/2017 0:00	08N	432953	7050107		766	Auger	60	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Fine	Rusty Rock Chip
1539069	LS01	8/18/2017 0:00	08N	432965	7050085		767	Auger	80	C	Flat	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Quartz Chips	Dull Red Rust
1539070	LS01	8/18/2017 0:00	08N	432976	7050064		770	Auger	70	C	Flat	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	
1539071	LS01	8/18/2017 0:00	08N	432986	7050038		773	Auger	60	C	Flat	Grey	Black Spruce	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	Coarse
1539072	LS01	8/18/2017 0:00	08N	432996	7050017		775	Auger	80	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	
1539073	LS01	8/18/2017 0:00	08N	433011	7049996		778	Auger	90	C	Subtle Slope	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Quartz Chips	Rocky Terrain
1539074	LS01	8/18/2017 0:00	08N	433019	7049973		779	Auger	80	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	
1539075	LS01	8/18/2017 0:00	08N	433019	7049973	1539074	779	Auger	110	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	Quartz Chips
1539076	LS01	8/18/2017 0:00	08N	433029	7049949		782	Auger	80	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	Fine
1539077	LS01	8/18/2017 0:00	08N	433041	7049928		784	Auger	100	C	Subtle Slope	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Excellent	Silt	Sandy	Dull Red Rust
1539078	LS01	8/18/2017 0:00	08N	433049	7049904		787	Auger	70	C	Flat	Grey	Black Spruce	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Rusty Rock Chip
1539079	LS01	8/18/2017 0:00	08N	433064	7049884		789	Auger	70	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Quartz Chips	

sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1539080	LS01	8/18/2017 0:00	08N	433076	7049862		788	Auger	90	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	
1539081	LS01	8/18/2017 0:00	08N	433088	7049839		790	Auger	90	C	Flat	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Excellent	Silt	Quartz Chips	Sandy
1539082	LS01	8/18/2017 0:00	08N	433099	7049816		792	Auger	70	C	Subtle Slope	Dark Blue Black	Black Spruce	Reindeer Moss	Damp	Good	Silt	Quartz Chips	Sandy
1539083	LS01	8/18/2017 0:00	08N	433103	7049792		794	Auger	70	C	Subtle Slope	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Silt	Coarse	Rusty Rock Chip
1539084	LS01	8/18/2017 0:00	08N	433120	7049770		795	Auger	90	C	Subtle Slope	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Excellent	Silt	Dull Red Rust	Sandy
1539085	LS01	8/18/2017 0:00	08N	433130	7049748		796	Auger	70	C	Flat	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Coarse
1539086	LS01	8/18/2017 0:00	08N	433142	7049725		798	Auger	60	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Fine
1539087	LS01	8/18/2017 0:00	08N	433154	7049704		800	Auger	70	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Silt	Rusty Rock Chip	Sandy
1539088	LS01	8/18/2017 0:00	08N	433162	7049680		802	Auger	60	C	Flat	Dark Olivine Green	Black Spruce	Reindeer Moss	Wet	Good	Silt	Organic 10%	
1539089	LS01	8/18/2017 0:00	08N	433173	7049658		803	Auger	80	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Silt	Dull Red Rust	Sandy
1539090	LS01	8/18/2017 0:00	08N	433183	7049634		806	Auger	70	C	Flat	Dark Olivine Green	Black Spruce	Sphagnum Moss < 30cm	Wet	Good	Silt	Organic 10%	
1539091	LS01	8/18/2017 0:00	08N	433195	7049614		807	Auger	60	B	Flat	Dark Brown	Pine	Sphagnum Moss > 30cm	Wet	Excellent	Silt	Organic 10%	Sandy
1539092	LS01	8/18/2017 0:00	08N	433207	7049591		810	Auger	70	C	Flat	Grey	Black Spruce	Reindeer Moss	Wet	Good	Silt	Sandy	Fine
1539093	LS01	8/18/2017 0:00	08N	433217	7049569		812	Auger	70	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Silt	Dull Red Rust	Fine
1539094	LS01	8/18/2017 0:00	08N	433229	7049546		816	Auger	60	B	Subtle Slope	Dark Brown	Black Spruce	Sphagnum Moss < 30cm	Wet	Good	Silt	Organic 10%	Mud
1539095	LS01	8/18/2017 0:00	08N	433235	7049520		819	Auger	60	B	Flat	Bluish Grey	Black Spruce	Sphagnum Moss < 30cm	Wet	Excellent	Silt	Quartz Chips	Sandy
1539096	LS01	8/18/2017 0:00	08N	433252	7049502		822	Auger	70	C	Flat	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Wet	Good	Silt	Bright Orange Rust	Rusty Rock Chip
1539097	LS01	8/18/2017 0:00	08N	433257	7049477		827	Auger	50	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Organic 10%
1539098	LS01	8/18/2017 0:00	08N	433273	7049456		830	Auger	70	C	Subtle Slope	Greyish Green	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Silt	Coarse	Dull Red Rust
1539099	LS01	8/18/2017 0:00	08N	433283	7049433		833	Auger	70	C	Flat	Grey	Black Spruce	Reindeer Moss	Damp	Good	Silt	Sandy	Fine
1539100	LS01	8/18/2017 0:00	08N	433283	7049433	1539099	833	Auger	70	C	Flat	Grey	Black Spruce	Reindeer Moss	Damp	Good	Silt	Sandy	Dull Red Rust
1539101	LS01	8/19/2017 0:00	08N	430814	7046057		1211	Auger	80	C	Flat	Chocolate Brown	Balsam Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Sandy
1539102	LS01	8/19/2017 0:00	08N	430801	7046079		1211	Auger	80	C	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rusty Rock Chip	
1539103	LS01	8/19/2017 0:00	08N	430789	7046102		1210	Auger	90	C	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Quartz Chips
1539104	LS01	8/19/2017 0:00	08N	430780	7046120		1207	Auger	100	C	Subtle Slope	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Rusty Rock Chip
1539105	LS01	8/19/2017 0:00	08N	430771	7046149		1204	Auger	100	C	Flat	Greyish Green	Balsam Fir	Sphagnum Moss < 30cm	Damp	Excellent	Silt	Dull Red Rust	Sandy
1539106	LS01	8/19/2017 0:00	08N	430759	7046170		1198	Auger	80	C	Subtle Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Damp	Excellent	Silt	Quartz Chips	Coarse
1539107	LS01	8/19/2017 0:00	08N	430748	7046192		1192	Auger	90	C	Flat	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Quartz Chips
1539108	LS01	8/19/2017 0:00	08N	430738	7046216		1188	Auger	80	C	Flat	Chocolate Brown	Willows	Leaf Cover	Damp	Good	Silt	Coarse	Dull Red Rust
1539109	LS01	8/19/2017 0:00	08N	430723	7046237		1182	Auger	90	C	Subtle Slope	Chocolate Brown	Willows	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Bright Orange Rust	Quartz Chips
1539110	LS01	8/19/2017 0:00	08N	430713	7046259		1176	Auger	80	C	Subtle Slope	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Quartz Chips	Dull Red Rust
1539111	LS01	8/19/2017 0:00	08N	430704	7046282		1170	Auger	70	C	Subtle Slope	Grey	Willows	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Quartz Chips	Rusty Rock Chip
1539112	LS01	8/19/2017 0:00	08N	430671	7046574		1100	Auger	50	C	Subtle Slope	Grey	Black Spruce	Sphagnum Moss < 30cm	Wet	Good	Silt	Sandy	Organic 10%
1539113	LS01	8/19/2017 0:00	08N	430686	7046552		1112	Auger	80	C	Subtle Slope	Dark Brown	Black Spruce	Sphagnum Moss < 30cm	Wet	Good	Silt	Sandy	Fine
1539114	LS01	8/19/2017 0:00	08N	430694	7046529		1119	Auger	60	C	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Wet	Good	Silt	Dull Red Rust	
1539115	LS01	8/19/2017 0:00	08N	430706	7046506		1126	Mattock	50	C	Flat	Grey	Black Spruce	Reindeer Moss	Wet	Good	Silt	Dull Red Rust	Sandy
1539116	LS01	8/19/2017 0:00	08N	430716	7046483		1132	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Quartz Chips
1539117	LS01	8/19/2017 0:00	08N	430725	7046460		1140	Auger	60	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Silt	Quartz Chips	Rusty Rock Chip
1539118	LS01	8/19/2017 0:00	08N	430737	7046437		1145	Auger	70	C	Flat	Chocolate Brown	Willows	Reindeer Moss	Damp	Excellent	Sand	Bright Orange Rust	Quartz Chips
1539119	LS01	8/19/2017 0:00	08N	430749	7046416		1150	Auger	80	C	Subtle Slope	Chocolate Brown	Black Spruce	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Quartz Chips
1539120	LS01	8/19/2017 0:00	08N	430760	7046394		1155	Auger	70	C	Subtle Slope	Chocolate Brown	Black Spruce	Thin Moss Cover	Damp	Good	Silt	Rusty Rock Chip	Fine
1539121	LS01	8/19/2017 0:00	08N	430769	7046371		1158	Auger	80	C	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Quartz Chips	Dull Red Rust
1539122	LS01	8/19/2017 0:00	08N	430780	7046347		1163	Auger	80	C	Flat	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Silt	Bright Orange Rust	Quartz Chips
1539123	LS01	8/19/2017 0:00	08N	430793	7046326		1168	Auger	110	C	Flat	Chocolate Brown	Willows	Sphagnum Moss < 30cm	Damp	Excellent	Silt	Dull Red Rust	Quartz Chips
1539124	LS01	8/19/2017 0:00	08N	430803	7046303		1176	Auger	60	C	Flat	Chocolate Brown	Willows	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Bright Orange Rust	Quartz Chips
1539125	LS01	8/19/2017 0:00	08N	430803	7046303	1539124	1176	Auger	80	C	Flat	Chocolate Brown	Willows	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Fine
1539126	LS01	8/19/2017 0:00	08N	430814	7046281		1181	Auger	80	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	
1539127	LS01	8/19/2017 0:00	08N	430827	7046259		1184	Auger	60	C	Flat	Chocolate Brown	Balsam Fir	Leaf Cover	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1539128	LS01	8/19/2017 0:00	08N	430838	7046237		1190	Auger	80	C	Subtle Slope	Chocolate Brown	Willows	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Quartz Chips
1539129	LS01	8/19/2017 0:00	08N	430847	7046212		1194	Auger	90	C	Subtle Slope	Chocolate Brown	Balsam Fir	Leaf Cover	Damp	Excellent	Silt	Dull Red Rust	Quartz Chips
1539130	LS01	8/19/2017 0:00	08N	430859	7046191		1198	Auger	90	C	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Quartz Chips
1539131	LS01	8/19/2017 0:00	08N	430868	7046167		1201	Auger	80	C	Subtle Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Sandy
1539132	LS01	8/19/2017 0:00	08N	430880	7046150		1204	Auger	70	C	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Quartz Chips	Dull Red Rust
1539133	LS01	8/19/2017 0:00	08N	430892	7046124		1207	Auger	80	C	Flat	Chocolate Brown	Black Spruce	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Rusty Rock Chip
1539134	LS01	8/19/2017 0:00	08N	430902	7046102		1209	Auger	80	C	Subtle Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	
1539135	LS01	8/20/2017 0:00	08N	427719	7045105		1243	Auger	80	C	Flat	Chocolate Brown	Willows	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	
1539136	LS01	8/20/2017 0:00	08N	427728	7045082		1244	Auger	60	C	Flat	Chocolate Brown	Willows	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Quartz Chips
1539137	LS01	8/20/2017 0:00	08N	427742	7045060		1244	Auger	80	C	Flat	Chocolate Brown	Willows	Reindeer Moss	Damp	Good	Silt	Quartz Chips	
1539138	LS01	8/20/2017 0:00	08N	427751	7045041		1244	Auger	80	C	Flat	Chocolate Brown	Willows	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Quartz Chips
1539139	LS01	8/20/2017 0:00	08N	427764	7045015		1243	Auger	80	C	Flat	Chocolate Brown	Balsam Fir	Thin Moss Cover	Damp	Excellent	Sand	Bright Orange Rust	Quartz Chips
1539140	LS01	8/20/2017 0:00	08N	427776	7044993		1243	Auger	70	C	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	
1539141	LS01	8/20/2017 0:00	08N	427784	7044968		1242	Auger	80	C	Flat	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Silt	Quartz Chips	
1539142	LS01	8/20/2017 0:00	08N	427796	7044945		1240	Auger	90	C	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt		
1539143	LS01	8/20/2017 0:00	08N	427809	7044926		1239	Auger	60	C	Flat	Chocolate Brown	Willows	Sphagnum Moss < 30cm	Damp	Good	Silt	Organic 10%	Rusty Rock Chip
1539144	LS01	8/20/2017 0:00	08N	427818	7044902		1238	Auger	80	C	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Sandy	Dull Red Rust
1539145	LS01	8/20/2017 0:00	08N	427828	7044881		1235	Auger	70	C	Flat	Chocolate Brown	Willows	Sphagnum Moss < 30cm	Damp	Good	Silt	Quartz Chips	
1539146	LS01	8/20/2017 0:00	08N	427841	7044856		1231	Auger	60	C	Subtle Slope	Chocolate Brown	Willows	Reindeer Moss	Damp	Good	Silt	Sandy	Dull Red Rust
1539147	LS01	8/20/2017 0:00	08N	427851	7044834		1226	Auger	90	C	Subtle Slope	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Bright Orange Rust	Quartz Chips
1539148	LS01	8/20/2017 0:00	08N	427862	7044811		1222	Auger	80	C	Subtle Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Damp	Good	Silt	Quartz Chips	Dull Red Rust
1539149	LS01	8/20/2017 0:00	08N	427875	7044790		1217	Auger	80	C	Subtle Slope	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rusty Rock Chip	
1539150	LS01	8/20/2017 0:00	08N	427875	7044790	1539149	1217	Auger	70	C	Subtle Slope	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	
1539151	LS01	8/20/2017 0:00	08N	427884	7044766		1211	Auger	60	C	Subtle Slope	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Quartz Chips	Rusty Rock Chip
1539152	LS01	8/20/2017 0:00	08N	427896	7044746		1208	Auger	80	C	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Quartz Chips
1539153	LS01	8/20/2017 0:00	08N	428001	7044745		1206	Auger	80	B	Flat	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Excellent	Silt	Quartz Chips	Dull Red Rust
1539154	LS01	8/20/2017 0:00	08N	428011	7044719		1201	Auger	70	C	Flat	Chocolate Brown	Balsam Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	Bright Orange Rust
1539155	LS01	8/20/2017 0:00	08N	428023	7044696		1197	Auger	70	C	Flat	Chocolate Brown	Balsam Fir	Thin Moss Cover	Damp	Good	Silt	Quartz Chips	
1539156	LS01	8/20/2017 0:00	08N	428035	7044675		1193	Auger	80	C	Subtle Slope	Chocolate Brown	Willows	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Sandy
1539157	LS01	8/20/2017 0:00	08N	428048	7044654		1186	Auger	70	C	Flat	Chocolate Brown	Pine	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	
1539158	LS01	8/20/2017 0:00	08N	428056	7044630		1178	Auger	70	C	Flat	Chocolate Brown	Willows	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rusty Rock Chip
1539159	LS01	8/20/2017 0:00	08N	428069	7044608		1172	Auger	80	B	Subtle Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Damp	Excellent	Silt	Organic 10%	Dull Red Rust
1539160	LS01	8/20/2017 0:00	08N	428080	7044585		1165	Auger	90	C	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	
1539161	LS01	8/20/2017 0:00	08N	428091	7044564		1161	Auger	60	B	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Excellent	Silt	Sandy	
1539162	LS01	8/20/2017 0:00	08N	428102	7044541		1156	Auger	70	C	Flat	Chocolate Brown	Balsam Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Sandy
1539163	LS01	8/20/2017 0:00	08N	428113	7044519		1154	Auger	80	C	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Sandy	Rusty Rock Chip
1539164	LS01	8/20/2017 0:00	08N	428022	7044474		1152	Auger	80	C	Flat	Chocolate Brown	Balsam Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	

sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1539165	LS01	8/20/2017 0:00	08N	428014	7044496		1155	Auger	70	C	Flat	Reddish Brown	Black Spruce	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Sandy
1539166	LS01	8/20/2017 0:00	08N	428001	7044519		1159	Auger	80	C	Flat	Chocolate Brown	Balsam Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Quartz Chips
1539167	LS01	8/20/2017 0:00	08N	427991	7044542		1164	Auger	80	C	Flat	Chocolate Brown	Balsam Fir	Reindeer Moss	Damp	Good	Silt	Sandy	
1539168	LS01	8/20/2017 0:00	08N	427979	7044564		1167	Auger	80	C	Subtle Slope	Chocolate Brown	Black Spruce	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Sandy
1539169	LS01	8/20/2017 0:00	08N	427969	7044588		1173	Auger	80	C	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Quartz Chips
1539170	LS01	8/20/2017 0:00	08N	427956	7044609		1178	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Rocky Terrain
1539171	LS01	8/20/2017 0:00	08N	427946	7044631		1188	Auger	60	C	Subtle Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Fine
1539172	LS01	8/20/2017 0:00	08N	427934	7044654		1192	Auger	60	C	Subtle Slope	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Rusty Rock Chip	Rocky Terrain
1539173	LS01	8/20/2017 0:00	08N	427925	7044677		1196	Auger	70	C	Subtle Slope	Chocolate Brown	Balsam Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Rusty Rock Chip
1539174	LS01	8/20/2017 0:00	08N	427914	7044700		1200	Auger	90	C	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	
1539175	LS01	8/20/2017 0:00	08N	427914	7044700	1539174	1200	Auger	70	C	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Quartz Chips
1545251	ZM01	8/16/2017 0:00	08N	433285	7047152		1208	Auger	100	C	Flat	Light Brown	Subalpine Fir	Sphagnum Moss < 30cm	Dry	Good	Sand	Fine	
1545252	ZM01	8/16/2017 0:00	08N	433274	7047173		1208	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Fine	
1545253	ZM01	8/16/2017 0:00	08N	433262	7047196		1207	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Fine	Rocky Terrain
1545254	ZM01	8/16/2017 0:00	08N	433250	7047218		1204	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Sandy
1545255	ZM01	8/16/2017 0:00	08N	433241	7047241		1202	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Fine	Sandy
1545256	ZM01	8/16/2017 0:00	08N	433231	7047264		1201	Auger	100	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Sandy
1545257	ZM01	8/16/2017 0:00	08N	433219	7047286		1199	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Fine
1545258	ZM01	8/16/2017 0:00	08N	433208	7047307		1197	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1545259	ZM01	8/16/2017 0:00	08N	433197	7047331		1193	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1545260	ZM01	8/16/2017 0:00	08N	433187	7047353		1189	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	Dull Red Rust
1545261	ZM01	8/16/2017 0:00	08N	433176	7047375		1186	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Fine	Dull Red Rust
1545262	ZM01	8/16/2017 0:00	08N	433164	7047397		1183	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Fine	Dull Red Rust
1545263	ZM01	8/16/2017 0:00	08N	433153	7047421		1177	Auger	70	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rocky Terrain	Dull Red Rust
1545264	ZM01	8/16/2017 0:00	08N	433142	7047443		1172	Auger	80	C	Subtle Slope	Grey	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Terrain	Dull Red Rust
1545265	ZM01	8/16/2017 0:00	08N	433131	7047465		1169	Auger	60	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1545266	ZM01	8/16/2017 0:00	08N	433120	7047488		1165	Auger	100	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rocky Terrain	Dull Red Rust
1545267	ZM01	8/16/2017 0:00	08N	433110	7047511		1162	Auger	80	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1545268	ZM01	8/16/2017 0:00	08N	433098	7047532		1158	Auger	70	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Partially Frozen	Dull Red Rust
1545269	ZM01	8/16/2017 0:00	08N	433086	7047555		1153	Auger	100	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	Bright Orange Rust
1545270	ZM01	8/16/2017 0:00	08N	433077	7047578		1150	Auger	110	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	Wet Soil
1545271	ZM01	8/16/2017 0:00	08N	433064	7047600		1146	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Sample	Rocky Terrain
1545272	ZM01	8/16/2017 0:00	08N	433055	7047623		1142	Auger	80	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Sample	Rocky Terrain
1545273	ZM01	8/16/2017 0:00	08N	433044	7047645		1139	Auger	80	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	Fine
1545274	ZM01	8/16/2017 0:00	08N	432933	7047871		1087	Auger	40	C	Subtle Slope	Reddish Yellow	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rocky Sample	Dull Red Rust
1545275	ZM01	8/16/2017 0:00	08N	432933	7047871		1087	Auger	40	C	Subtle Slope	Reddish Yellow	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rocky Sample	Dull Red Rust
1545276	ZM01	8/16/2017 0:00	08N	433031	7047668		1133	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Fine	Rocky Terrain
1545277	ZM01	8/16/2017 0:00	08N	433021	7047690		1127	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	Rocky Sample
1545278	ZM01	8/16/2017 0:00	08N	433010	7047713		1123	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Fine	Rocky Terrain
1545279	ZM01	8/16/2017 0:00	08N	432999	7047736		1117	Auger	60	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Sample	Rocky Terrain
1545280	ZM01	8/16/2017 0:00	08N	432989	7047759		1110	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	Rocky Sample
1545281	ZM01	8/16/2017 0:00	08N	432976	7047780		1104	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Bright Orange Rust	Rocky Terrain
1545282	ZM01	8/16/2017 0:00	08N	432966	7047802		1099	Auger	50	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rocky Sample	Rocky Terrain
1545283	ZM01	8/16/2017 0:00	08N	432955	7047826		1091	Auger	60	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	Bright Orange Rust
1545284	ZM01	8/16/2017 0:00	08N	432944	7047848		1088	Auger	80	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	Rocky Sample
1545319	DB02	8/19/2017 0:00	08N	431803	7046762		1195	Auger	70	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1545320	DB02	8/19/2017 0:00	08N	431792	7046784		1195	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Wet	Excellent	Clay	Sandy	Wet Soil
1545321	DB02	8/19/2017 0:00	08N	431780	7046806		1200	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Wet	Good	Clay	Partially Frozen	Wet Soil
1545322	DB02	8/19/2017 0:00	08N	431770	7046829		1193	Auger	90	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay	Sandy	
1545344	DB02	8/18/2017 0:00	08N	433115	7048179		1074	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1545345	DB02	8/18/2017 0:00	08N	433103	7048200		1061	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Bright Orange Rust	
1545346	DB02	8/18/2017 0:00	08N	433093	7048223		1060	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1545347	DB02	8/18/2017 0:00	08N	433081	7048246		1059	Auger	70	C	Subtle Slope	Light Grey	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1545348	DB02	8/18/2017 0:00	08N	433070	7048268		1040	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand		
1545351	DB02	8/18/2017 0:00	08N	432883	7048651		971	Auger	50	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Clay	
1545352	DB02	8/18/2017 0:00	08N	432874	7048673		949	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Bright Orange Rust	Clay
1545353	DB02	8/18/2017 0:00	08N	432862	7048696		926	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay	Sandy	
1545354	DB02	8/18/2017 0:00	08N	432852	7048719		929	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1545355	DB02	8/18/2017 0:00	08N	432841	7048741		931	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Bright Orange Rust	
1545356	DB02	8/18/2017 0:00	08N	432829	7048763		943	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Clay	Wet Soil	Sandy
1545357	DB02	8/18/2017 0:00	08N	432819	7048785		920	Auger	100	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1545358	DB02	8/18/2017 0:00	08N	432807	7048808		923	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Wet	Excellent	Sand	Wet Soil	
1545359	DB02	8/18/2017 0:00	08N	432796	7048830		899	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Dry	Excellent	Sand	Fine	
1545360	DB02	8/18/2017 0:00	08N	432786	7048853		918	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Clay	
1545361	DB02	8/18/2017 0:00	08N	432773	7048876		910	Auger	100	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Sand	Clay	
1545362	DB02	8/18/2017 0:00	08N	432763	7048898		917	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Clay	
1545363	DB02	8/19/2017 0:00	08N	431846	7046673		1209	Auger	90	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1545364	DB02	8/19/2017 0:00	08N	431835	7046695		1213	Auger	80	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Excellent	Clay	Sandy	Bright Orange Rust
1545365	DB02	8/19/2017 0:00	08N	431825	7046716		1207	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1545366	DB02	8/19/2017 0:00	08N	431814	7046740		1201	Auger	70	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1545367	ZM01	8/19/2017 0:00	08N	432026	7046762		1211	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Sandy	
1545368	ZM01	8/19/2017 0:00	08N	432014	7046783		1209	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Fine	Rocky Terrain
1545369	ZM01	8/19/2017 0:00	08N	432004	7046805		1204	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Fine	Rocky Terrain
1545370	ZM01	8/19/2017 0:00	08N	431994	7046830		1199	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Bright Orange Rust	Rocky Terrain
1545371	ZM01	8/19/2017 0:00	08N	431984	7046851		1195	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Rocky Terrain	Rusty Rock Chip
1545372	ZM01	8/19/2017 0:00	08N	431971	7046873		1191	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Rocky Terrain
1545373	ZM01	8/19/2017 0:00	08N	431961	7046896		1186	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Rocky Terrain	Rusty Rock Chip
1545374	ZM01	8/19/2017 0:00	08N	431935	7046718		1207	Auger	100	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Rusty Rock Chip	Rocky Terrain
1545375	ZM01	8/19/2017 0:00	08N	431935	7046718		1207	Auger	100	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Rusty Rock Chip	Rocky Terrain
1545376	ZM01	8/19/2017 0:00	08N	431948	7046918		1182	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Sample	Rocky Terrain
1545377	ZM01	8/19/2017 0:00	08N	431938	7046940		1178	Auger	80	C	Subtle Slope	Dark Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rusty Rock Chip	Rocky Terrain
1545378	ZM01	8/19/2017 0:00	08N	431928	7046964		1175	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Silt	Bright Orange Rust	Rusty Rock Chip
1545379	ZM01	8/19/2017 0:00	08N	431916	7046985		1171	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Bright Orange Rust	Rocky Terrain
1545380	ZM01	8/19/2017 0:00	08N	431907	7047009		1167	Auger	100	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Silt	Bright Orange Rust	Rocky Terrain
1545381	ZM01	8/19/2017 0:00	08N	431894	7047032		1163	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Wet	Good	Silt	Rocky Terrain	Rocky Sample

sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1545382	ZM01	8/19/2017 0:00	08N	431884	7047053		1160	Auger	60	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Wet	Poor	Silt	Wet Soil	Organic 10%
1545383	ZM01	8/19/2017 0:00	08N	431873	7047076		1157	Auger	60	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Wet	Poor	Silt	Partially Frozen	Organic 10%
1545384	ZM01	8/19/2017 0:00	08N	431861	7047098		1154	Auger	60	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Silt	Rocky Sample	Rusty Rock Chip
1545385	ZM01	8/19/2017 0:00	08N	431850	7047121		1159	Auger	60	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Silt	Bright Orange Rust	Rocky Terrain
1545386	ZM01	8/19/2017 0:00	08N	431761	7047077		1151	Auger	70	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Silt	Bright Orange Rust	Partially Frozen
1545387	ZM01	8/19/2017 0:00	08N	431771	7047055		1154	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Silt	Bright Orange Rust	Partially Frozen
1545388	ZM01	8/19/2017 0:00	08N	431782	7047033		1157	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1545389	ZM01	8/19/2017 0:00	08N	431794	7047011		1161	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1545390	ZM01	8/19/2017 0:00	08N	431805	7046988		1165	Auger	90	C	Subtle Slope	Light Bluish Grey	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Fine
1545391	ZM01	8/19/2017 0:00	08N	431815	7046965		1169	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Rocky Terrain
1545392	ZM01	8/19/2017 0:00	08N	431827	7046942		1171	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1545393	ZM01	8/19/2017 0:00	08N	431837	7046920		1176	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rusty Rock Chip
1545394	ZM01	8/19/2017 0:00	08N	431848	7046897		1178	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Rusty Rock Chip
1545395	ZM01	8/19/2017 0:00	08N	431859	7046874		1182	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Dull Red Rust	Rocky Sample
1545396	ZM01	8/19/2017 0:00	08N	431870	7046852		1186	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Rusty Rock Chip	Rocky Sample
1545397	ZM01	8/19/2017 0:00	08N	431880	7046830		1189	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Sample	Bright Orange Rust
1545398	ZM01	8/19/2017 0:00	08N	431891	7046807		1192	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Fine
1545399	ZM01	8/19/2017 0:00	08N	431924	7046739		1201	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Fine
1545400	ZM01	8/19/2017 0:00	08N	431924	7046739		1201	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Fine
1545401	ZM01	8/19/2017 0:00	08N	431905	7046785		1196	Auger	90	C	Subtle Slope	Light Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Bright Orange Rust	Fine
1545402	ZM01	8/19/2017 0:00	08N	431914	7046763		1198	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Silt	Rocky Sample	Bright Orange Rust
1545403	DB02	8/19/2017 0:00	08N	431759	7046852		1188	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Clay	Sandy	
1545404	DB02	8/19/2017 0:00	08N	431748	7046876		1180	Auger	100	C	Subtle Slope	Light Brown	Subalpine Fir	Bare Soil	Wet	Good	Clay	Wet Soil	
1545405	DB02	8/19/2017 0:00	08N	431738	7046897		1184	Auger	90	C	Subtle Slope	Grey	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Fine	
1545406	DB02	8/19/2017 0:00	08N	431726	7046919		1181	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Clay	Bright Orange Rust	
1545407	DB02	8/19/2017 0:00	08N	431715	7046942		1181	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1545408	DB02	8/19/2017 0:00	08N	431703	7046965		1172	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Dry	Good	Sand	Fine	
1545409	DB02	8/19/2017 0:00	08N	431693	7046986		1174	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1545410	DB02	8/19/2017 0:00	08N	431682	7047010		1180	Auger	80	C	Subtle Slope	Light Brown	Dwarf Birch	Reindeer Moss	Dry	Good	Sand	Fine	
1545411	DB02	8/19/2017 0:00	08N	431670	7047032		1183	Auger	80	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand		
1545412	DB02	8/19/2017 0:00	08N	431582	7046988		1169	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Wet	Excellent	Sand	Clay	
1545413	DB02	8/19/2017 0:00	08N	431593	7046968		1185	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay	Sandy	
1545414	DB02	8/19/2017 0:00	08N	431604	7046945		1181	Auger	90	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Sand	Partially Frozen	
1545415	DB02	8/19/2017 0:00	08N	431613	7046922		1173	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Clay	Partially Frozen	
1545416	DB02	8/19/2017 0:00	08N	431625	7046901		1176	Auger	80	C	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Clay	
1545417	DB02	8/19/2017 0:00	08N	431635	7046877		1186	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Clay	Wet Soil	
1545418	DB02	8/19/2017 0:00	08N	431647	7046855		1185	Auger	90	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Clay	Partially Frozen	
1545419	DB02	8/19/2017 0:00	08N	431658	7046832		1203	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Wet	Excellent	Clay	Sandy	Wet Soil
1545420	DB02	8/19/2017 0:00	08N	431667	7046810		1198	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1545421	DB02	8/19/2017 0:00	08N	431679	7046787		1182	Auger	90	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Clay	
1545422	DB02	8/19/2017 0:00	08N	431690	7046765		1186	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Silt	Wet Soil	
1545423	DB02	8/19/2017 0:00	08N	431702	7046743		1197	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	
1545424	DB02	8/19/2017 0:00	08N	431713	7046720		1197	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand		
1545425	DB02	8/19/2017 0:00	08N	431713	7046720	1545424	1204	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand		
1545426	DB02	8/19/2017 0:00	08N	431723	7046697		1197	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand		
1545427	DB02	8/19/2017 0:00	08N	431735	7046675		1210	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand		
1545428	DB02	8/19/2017 0:00	08N	431746	7046651		1216	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Silt	Sandy	
1545429	DB02	8/19/2017 0:00	08N	431759	7046629		1202	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Quartz Chips	
1545430	DB02	8/19/2017 0:00	08N	431767	7046608		1204	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1545431	DB02	8/19/2017 0:00	08N	431780	7046585		1228	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	
1545432	DB02	8/19/2017 0:00	08N	431790	7046563		1231	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	
1545433	DB02	8/19/2017 0:00	08N	431800	7046540		1219	Auger	60	C	Subtle Slope	Light Brown	Dwarf Birch	Thin Moss Cover	Dry	Excellent	Sand	Fine	
1545436	ZM01	8/20/2017 0:00	08N	427927	7045821		1171	Auger	50	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Wet	Poor	Silt	Frozen	Organic 10%
1545437	ZM01	8/20/2017 0:00	08N	427937	7045800		1180	Auger	40	B	Subtle Slope	Dark Grey Black	Subalpine Fir	Sphagnum Moss < 30cm	Wet	Poor	Silt	Rocky Terrain	Organic 25%
1545438	ZM01	8/20/2017 0:00	08N	427950	7045776		1188	Auger	60	B	Subtle Slope	Dark Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rusty Rock Chip	Rocky Terrain
1545439	ZM01	8/20/2017 0:00	08N	427959	7045754		1194	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rocky Sample	Quartz Chips
1545440	ZM01	8/20/2017 0:00	08N	427970	7045732		1200	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	Rocky Terrain
1545441	ZM01	8/20/2017 0:00	08N	427983	7045709		1204	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Silt	Bright Orange Rust	Rocky Terrain
1545442	ZM01	8/20/2017 0:00	08N	427994	7045688		1208	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Bright Orange Rust	Sandy
1545443	ZM01	8/20/2017 0:00	08N	428003	7045664		1210	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Bright Orange Rust	Rocky Sample
1545444	ZM01	8/20/2017 0:00	08N	428016	7045642		1213	Auger	50	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Terrain	Dull Red Rust
1545445	ZM01	8/20/2017 0:00	08N	428025	7045620		1215	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Fine
1545446	ZM01	8/20/2017 0:00	08N	428036	7045597		1219	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rocky Sample	Rocky Terrain
1545447	ZM01	8/20/2017 0:00	08N	428048	7045574		1223	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Rusty Rock Chip	Rocky Terrain
1545448	ZM01	8/20/2017 0:00	08N	428059	7045552		1225	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1545449	ZM01	8/20/2017 0:00	08N	428106	7045909		1175	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Rusty Rock Chip	Rocky Terrain
1545450	ZM01	8/20/2017 0:00	08N	428106	7045909		1175	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Rusty Rock Chip	Rocky Terrain
1545451	ZM01	8/20/2017 0:00	08N	428070	7045529		1228	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Fine
1545452	ZM01	8/20/2017 0:00	08N	428080	7045506		1229	Auger	90	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Silt	Dull Red Rust	Rusty Rock Chip
1545453	ZM01	8/20/2017 0:00	08N	428092	7045485		1230	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Rocky Terrain	Rusty Rock Chip
1545454	ZM01	8/20/2017 0:00	08N	428103	7045463		1231	Auger	70	B	Flat	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Sandy
1545455	ZM01	8/20/2017 0:00	08N	428282	7045548		1225	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	Fine
1545456	ZM01	8/20/2017 0:00	08N	428272	7045573		1223	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Sandy
1545457	ZM01	8/20/2017 0:00	08N	428261	7045596		1220	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1545458	ZM01	8/20/2017 0:00	08N	428250	7045617		1218	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1545459	ZM01	8/20/2017 0:00	08N	428239	7045640		1216	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Terrain	Dull Red Rust
1545460	ZM01	8/20/2017 0:00	08N	428229	7045663		1215	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Fine
1545461	ZM01	8/20/2017 0:00	08N	428216	7045684		1214	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Fine
1545462	ZM01	8/20/2017 0:00	08N	428206	7045708		1211	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rocky Terrain	Dull Red Rust
1545463	ZM01	8/20/2017 0:00	08N	428194	7045730		1210	Auger	40	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rocky Terrain	Fine
1545464	ZM01	8/20/2017 0:00	08N	428185	7045753		1205	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Fine	Rocky Terrain
1545465	ZM01	8/20/2017 0:00	08N	428172	7045775		1202	Auger	100	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Bare Soil	Damp	Good	Sand	Bright Orange Rust	Rocky Terrain
1545466	ZM01	8/20/2017 0:00	08N	428162	7045797		1197	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Terrain	Sandy
1545467	ZM01	8/20/2017 0:00	08N	428151	7045820		1192	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	Dull Red Rust
1545468	ZM01	8/20/2017 0:00	08N	428140	7045843		1188	Auger	70	C	Subtle Slope	Dark Grey Black	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rocky Terrain	Dull Red Rust

sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1545469	ZM01	8/20/2017 0:00	08N	428129	7045864		1185	Auger	70	C	Subtle Slope	Dark Grey Black	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Rocky Terrain
1545470	ZM01	8/20/2017 0:00	08N	428117	7045887		1180	Auger	60	C	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	Rocky Terrain
1545476	DB02	8/20/2017 0:00	08N	428924	7046058		1184	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	
1545477	DB02	8/20/2017 0:00	08N	428913	7046081		1178	Auger	90	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Dry	Good	Silt	Sandy	
1545478	DB02	8/20/2017 0:00	08N	428901	7046103		1185	Auger	50	C	Subtle Slope	Light Brown	Dwarf Birch	Thin Moss Cover	Damp	Good	Silt	Sandy	
1545479	DB02	8/20/2017 0:00	08N	428892	7046125		1186	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt		
1545480	DB02	8/20/2017 0:00	08N	428881	7046148		1189	Auger	90	C	Subtle Slope	Grey	Subalpine Fir	Thin Moss Cover	Dry	Good	Silt	Sandy	
1545481	DB02	8/20/2017 0:00	08N	428870	7046170		1186	Auger	80	C	Subtle Slope	Light Brown	Dwarf Birch	Thin Moss Cover	Damp	Good	Silt	Sandy	
1545482	DB02	8/20/2017 0:00	08N	428858	7046192		1167	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt		
1545483	DB02	8/20/2017 0:00	08N	428847	7046215		1173	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Dry	Good	Silt	Sandy	
1545484	DB02	8/20/2017 0:00	08N	428836	7046238		1175	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	
1545485	DB02	8/20/2017 0:00	08N	428826	7046259		1183	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	
1545501	AB01	8/16/2017 0:00	08N	433644	7047327		1175	Auger	60	C	Subtle Slope	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Fine	
1545502	AB01	8/16/2017 0:00	08N	433634	7047348		1175	Auger	70	C	Subtle Slope	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	
1545503	AB01	8/16/2017 0:00	08N	433623	7047371		1172	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	
1545504	AB01	8/16/2017 0:00	08N	433611	7047394		1170	Auger	50	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Coarse	
1545505	AB01	8/16/2017 0:00	08N	433601	7047416		1167	Auger	50	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Bright Orange Rust	
1545506	AB01	8/16/2017 0:00	08N	433590	7047439		1166	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Terrain	
1545507	AB01	8/16/2017 0:00	08N	433579	7047460		1164	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Fine	Bright Orange Rust
1545508	AB01	8/16/2017 0:00	08N	433568	7047483		1162	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	
1545509	AB01	8/16/2017 0:00	08N	433557	7047506		1159	Auger	50	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	
1545510	AB01	8/16/2017 0:00	08N	433546	7047528		1156	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Fine	
1545511	AB01	8/16/2017 0:00	08N	433535	7047552		1152	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss > 30cm	Damp	Good	Silt	Fine	
1545512	AB01	8/16/2017 0:00	08N	433524	7047573		1149	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss > 30cm	Wet	Good	Sand	Fine	Bright Orange Rust
1545513	AB01	8/16/2017 0:00	08N	433513	7047595		1145	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss > 30cm	Wet	Good	Silt	Fine	
1545514	AB01	8/16/2017 0:00	08N	433501	7047618		1142	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Rocky Sample	Rocky Terrain
1545515	AB01	8/16/2017 0:00	08N	433491	7047642		1140	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Bright Orange Rust	
1545516	AB01	8/16/2017 0:00	08N	433468	7047686		1154	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss > 30cm	Damp	Good	Silt	Fine	
1545517	AB01	8/16/2017 0:00	08N	433479	7047664		1138	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Fine	
1545518	AB01	8/16/2017 0:00	08N	433457	7047709		1132	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Coarse	
1545519	AB01	8/16/2017 0:00	08N	433447	7047731		1128	Auger	40	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	
1545520	AB01	8/16/2017 0:00	08N	433436	7047753		1127	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Fine	
1545521	AB01	8/16/2017 0:00	08N	433424	7047775		1127	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	
1545522	AB01	8/16/2017 0:00	08N	433414	7047797		1123	Auger	70	C	Pronounced Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Rocky Sample	
1545523	AB01	8/16/2017 0:00	08N	433403	7047821		1115	Auger	40	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Terrain	
1545524	AB01	8/16/2017 0:00	08N	433393	7047842		1111	Auger	70	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Fine	
1545525	AB01	8/16/2017 0:00	08N	433393	7047842		1110	Auger	60	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Fine	
1545526	AB01	8/16/2017 0:00	08N	433381	7047866		1105	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Fine	
1545527	AB01	8/16/2017 0:00	08N	433370	7047889		1102	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Bright Orange Rust	Rocky Sample
1545528	AB01	8/16/2017 0:00	08N	433359	7047912		1098	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Fine	
1545529	AB01	8/16/2017 0:00	08N	433348	7047933		1094	Auger	60	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Fine	Bright Orange Rust
1545530	AB01	8/16/2017 0:00	08N	433336	7047955		1089	Auger	60	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Bright Orange Rust	
1545531	AB01	8/16/2017 0:00	08N	433326	7047978		1084	Auger	80	C	Pronounced Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Bright Orange Rust	
1545532	AB01	8/16/2017 0:00	08N	433314	7048001		1079	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Bright Orange Rust	
1545533	AB01	8/16/2017 0:00	08N	433304	7048024		1075	Auger	50	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	Bright Orange Rust
1545534	AB01	8/16/2017 0:00	08N	433294	7048045		1072	Auger	110	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Bright Orange Rust	
1545567	AB01	8/18/2017 0:00	08N	432752	7050063		755	Auger	40	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Terrain	
1545568	AB01	8/18/2017 0:00	08N	432764	7050040		758	Auger	60	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Partially Frozen	
1545569	AB01	8/18/2017 0:00	08N	432775	7050019		760	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	
1545570	AB01	8/18/2017 0:00	08N	432784	7049997		764	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Coarse	
1545571	AB01	8/18/2017 0:00	08N	432796	7049974		766	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Coarse	
1545572	AB01	8/18/2017 0:00	08N	432807	7049952		768	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Wet	Good	Silt	Partially Frozen	
1545573	AB01	8/18/2017 0:00	08N	432819	7049927		770	Auger	50	B	Subtle Slope	Chocolate Brown	Willows	Thin Moss Cover	Damp	Good	Silt	Partially Frozen	
1545574	AB01	8/18/2017 0:00	08N	432830	7049907		781	Auger	110	B	Subtle Slope	Chocolate Brown	Willows	Reindeer Moss	Wet	Good	Silt	Bright Orange Rust	
1545575	AB01	8/18/2017 0:00	08N	432830	7049907		781	Auger	110	B	Subtle Slope	Chocolate Brown	Willows	Reindeer Moss	Wet	Good	Silt	Wet Soil	
1545576	AB01	8/18/2017 0:00	08N	432841	7049885		782	Auger	50	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	
1545577	AB01	8/18/2017 0:00	08N	432851	7049861		784	Auger	40	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Dry	Good	Silt	Rocky Sample	
1545578	AB01	8/18/2017 0:00	08N	432862	7049839		784	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Coarse	
1545579	AB01	8/18/2017 0:00	08N	432874	7049814		783	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Partially Frozen	
1545580	AB01	8/18/2017 0:00	08N	432883	7049793		783	Auger	40	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Partially Frozen	
1545581	AB01	8/18/2017 0:00	08N	432895	7049771		784	Auger	50	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Partially Frozen	
1545582	AB01	8/18/2017 0:00	08N	432905	7049749		786	Auger	40	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Partially Frozen	
1545583	AB01	8/18/2017 0:00	08N	432918	7049725		788	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Bright Orange Rust	Partially Frozen
1545584	AB01	8/18/2017 0:00	08N	432928	7049702		790	Auger	50	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Partially Frozen	
1545585	AB01	8/18/2017 0:00	08N	432939	7049681		791	Auger	40	B	Subtle Slope	Grey	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Partially Frozen	
1545586	AB01	8/18/2017 0:00	08N	432950	7049658		794	Auger	50	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Partially Frozen	
1545587	AB01	8/18/2017 0:00	08N	432962	7049636		796	Auger	50	B	Subtle Slope	Chocolate Brown	Dwarf Birch	Sphagnum Moss < 30cm	Damp	Good	Silt	Partially Frozen	Organic 10%
1545588	AB01	8/18/2017 0:00	08N	432971	7049613		798	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Partially Frozen
1545589	AB01	8/18/2017 0:00	08N	432983	7049591		801	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Partially Frozen	
1545590	AB01	8/18/2017 0:00	08N	432993	7049568		804	Auger	40	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Partially Frozen	
1545591	AB01	8/18/2017 0:00	08N	433006	7049547		806	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss > 30cm	Damp	Good	Silt	Fine	Partially Frozen
1545592	AB01	8/18/2017 0:00	08N	433015	7049525		809	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Silt	Fine	
1545593	AB01	8/18/2017 0:00	08N	433026	7049502		813	Auger	70	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss > 30cm	Damp	Good	Silt	Partially Frozen	
1545594	AB01	8/18/2017 0:00	08N	433038	7049477		816	Auger	50	B	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Partially Frozen	
1545595	AB01	8/18/2017 0:00	08N	433048	7049457		820	Auger	40	B	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Organic 10%	Partially Frozen
1545596	AB01	8/18/2017 0:00	08N	433061	7049434		827	Auger	40	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Partially Frozen	Organic 10%
1545597	AB01	8/18/2017 0:00	08N	433070	7049411		835	Auger	60	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Partially Frozen	
1545598	AB01	8/18/2017 0:00	08N	433082	7049389		841	Auger	50	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Partially Frozen	
1545599	AB01	8/18/2017 0:00	08N	433093	7049367		845	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Coarse	
1545600	AB01	8/18/2017 0:00	08N	433093	7049367		846	Auger	50	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Coarse	
1545601	AB01	8/18/2017 0:00	08N	433104	7049343		848	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Dry	Good	Sand	Dull Red Rust	Bright Orange Rust
1545626	AB01	8/20/2017 0:00	08N	428472	7044692		1165	Auger	80	C	Pronounced Slope	Grey	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Silt	Coarse	
1545627	AB01	8/20/2017 0:00	08N	428462	7044715		1170	Auger	80	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Bright Orange Rust	
1545628	AB01	8/20/2017 0:00	08N	428451	7044737		1176	Auger	100	C	Pronounced Slope	Light Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Silt	Bright Orange Rust	Rocky Sample
1545629	AB01	8/20/2017 0:00	08N	428440	7044761		1181	Auger	60	C	Subtle Slope	Light Brown	Dwarf Birch	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Sample	

sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1545630	AB01	8/20/2017 0:00	08N	428429	7044782		1184	Auger	70	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	
1545631	AB01	8/20/2017 0:00	08N	428418	7044805		1187	Auger	70	C	Pronounced Slope	Light Brown	Dwarf Birch	Sphagnum Moss < 30cm	Damp	Good	Silt	Bright Orange Rust	
1545632	AB01	8/20/2017 0:00	08N	428406	7044827		1190	Auger	80	C	Pronounced Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Quartz Chips	Bright Orange Rust
1545633	AB01	8/20/2017 0:00	08N	428395	7044850		1194	Auger	80	C	Subtle Slope	Light Brown	Dwarf Birch	Sphagnum Moss < 30cm	Damp	Good	Sand	Fine	Rocky Sample
1545634	AB01	8/20/2017 0:00	08N	428384	7044874		1198	Auger	60	B	Subtle Slope	Chocolate Brown	Dwarf Birch	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Terrain	
1545635	AB01	8/20/2017 0:00	08N	428373	7044895		1200	Auger	70	C	Pronounced Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	Quartz Chips
1545636	AB01	8/20/2017 0:00	08N	428362	7044919		1204	Auger	60	C	Pronounced Slope	Chocolate Brown	Dwarf Birch	Sphagnum Moss < 30cm	Damp	Good	Silt	Bright Orange Rust	
1545637	AB01	8/20/2017 0:00	08N	428561	7044738		1186	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	
1545638	AB01	8/20/2017 0:00	08N	428552	7044759		1187	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Rocky Terrain	
1545639	AB01	8/20/2017 0:00	08N	428541	7044782		1188	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Terrain	
1545640	AB01	8/20/2017 0:00	08N	428530	7044805		1190	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Bright Orange Rust	Fine
1545641	AB01	8/20/2017 0:00	08N	428519	7044826		1191	Auger	80	C	Subtle Slope	Chocolate Brown	Mixed Coniferous	Thin Moss Cover	Damp	Good	Sand	Bright Orange Rust	Possible Creek Contamination
1545642	AB01	8/20/2017 0:00	08N	428508	7044849		1192	Auger	90	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Thin Moss Cover	Damp	Good	Sand	Bright Orange Rust	Possible Creek Contamination
1545643	AB01	8/20/2017 0:00	08N	428497	7044871		1194	Auger	60	C	Pronounced Slope	Light Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Bright Orange Rust	Rocky Terrain
1545644	AB01	8/20/2017 0:00	08N	428486	7044894		1200	Auger	60	C	Pronounced Slope	Chocolate Brown	Dwarf Birch	Sphagnum Moss < 30cm	Damp	Good	Sand	Rocky Terrain	
1545645	AB01	8/20/2017 0:00	08N	428474	7044916		1203	Auger	80	C	Pronounced Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	
1545646	AB01	8/20/2017 0:00	08N	428463	7044940		1208	Auger	60	B	Subtle Slope	Chocolate Brown	Dwarf Birch	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Terrain	Dull Red Rust
1545647	AB01	8/20/2017 0:00	08N	428452	7044962		1210	Auger	80	C	Subtle Slope	Light Brown	Dwarf Birch	Sphagnum Moss < 30cm	Damp	Good	Sand	Bright Orange Rust	
1545648	AB01	8/20/2017 0:00	08N	428652	7044781		1185	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Bright Orange Rust	
1545649	AB01	8/20/2017 0:00	08N	428641	7044803		1189	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Fine	
1545650	AB01	8/20/2017 0:00	08N	428641	7044803		1189	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Terrain	
1545651	AB01	8/20/2017 0:00	08N	428629	7044825		1191	Auger	60	B	Subtle Slope	Chocolate Brown	Dwarf Birch	Sphagnum Moss < 30cm	Damp	Good	Silt	Bright Orange Rust	
1545652	AB01	8/20/2017 0:00	08N	428619	7044847		1194	Auger	50	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Terrain	
1545653	AB01	8/20/2017 0:00	08N	428608	7044870		1196	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Fine	
1545654	AB01	8/20/2017 0:00	08N	428596	7044893		1198	Auger	100	C	Subtle Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Bright Orange Rust	
1545655	AB01	8/20/2017 0:00	08N	428586	7044916		1200	Auger	110	C	Subtle Slope	Light Brown	Dwarf Birch	Thin Moss Cover	Damp	Excellent	Silt	Bright Orange Rust	
1545656	AB01	8/20/2017 0:00	08N	428574	7044938		1203	Auger	60	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Fine	
1545657	AB01	8/20/2017 0:00	08N	428565	7044961		1208	Auger	70	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Thin Moss Cover	Damp	Good	Silt	Quartz Chips	
1545658	AB01	8/20/2017 0:00	08N	428551	7044983		1213	Auger	60	B	Subtle Slope	Chocolate Brown	Dwarf Birch	Thin Moss Cover	Damp	Good	Silt	Rocky Terrain	
1545659	AB01	8/20/2017 0:00	08N	428542	7045006		1217	Auger	70	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Bright Orange Rust	
1545783	CG01	8/18/2017 0:00	08N	433027	7050192		759	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545784	CG01	8/18/2017 0:00	08N	433037	7050174		758	Auger	60	C	Subtle Slope	Light Brown	Black Spruce	Leaf Cover	Damp	Good	Sand		
1545785	CG01	8/18/2017 0:00	08N	433043	7050150		761	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545786	CG01	8/18/2017 0:00	08N	433054	7050126		767	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545787	CG01	8/18/2017 0:00	08N	433065	7050104		772	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Quartz Chips	
1545788	CG01	8/18/2017 0:00	08N	433077	7050082		775	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545789	CG01	8/18/2017 0:00	08N	433090	7050059		778	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545790	CG01	8/18/2017 0:00	08N	433099	7050037		780	Auger	70	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545791	CG01	8/18/2017 0:00	08N	433112	7050014		780	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545792	CG01	8/18/2017 0:00	08N	433121	7049992		782	Auger	70	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545793	CG01	8/18/2017 0:00	08N	433133	7049969		783	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545794	CG01	8/18/2017 0:00	08N	433147	7049947		785	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545795	CG01	8/18/2017 0:00	08N	433153	7049922		786	Auger	80	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545796	CG01	8/18/2017 0:00	08N	433162	7049900		787	Auger	110	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545797	CG01	8/18/2017 0:00	08N	433175	7049879		788	Auger	70	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545798	CG01	8/18/2017 0:00	08N	433189	7049858		790	Auger	60	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545799	CG01	8/18/2017 0:00	08N	433203	7049836		790	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545800	CG01	8/18/2017 0:00	08N	433203	7049836	1545799	790	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545801	CG01	8/18/2017 0:00	08N	433211	7049810		792	Auger	110	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	
1545802	CG01	8/18/2017 0:00	08N	433221	7049788		793	Auger	90	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545803	CG01	8/18/2017 0:00	08N	433232	7049766		793	Auger	90	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545804	CG01	8/18/2017 0:00	08N	433242	7049739		793	Auger	70	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545805	CG01	8/18/2017 0:00	08N	433255	7049722		793	Auger	90	C	Subtle Slope	Grey	Black Spruce	Reindeer Moss	Wet	Good	Sand	Partially Frozen	
1545806	CG01	8/18/2017 0:00	08N	433264	7049698		795	Auger	80	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545807	CG01	8/18/2017 0:00	08N	433277	7049677		799	Auger	70	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545808	CG01	8/18/2017 0:00	08N	433287	7049655		802	Auger	80	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Quartz Chips	
1545809	CG01	8/18/2017 0:00	08N	433296	7049628		804	Auger	70	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545810	CG01	8/18/2017 0:00	08N	433309	7049607		806	Auger	80	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545811	CG01	8/18/2017 0:00	08N	433316	7049584		808	Auger	90	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545812	CG01	8/18/2017 0:00	08N	433333	7049564		812	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545813	CG01	8/18/2017 0:00	08N	433341	7049541		816	Auger	70	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545814	CG01	8/18/2017 0:00	08N	433354	7049517		817	Auger	70	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545815	CG01	8/18/2017 0:00	08N	433365	7049495		820	Auger	80	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545816	CG01	8/18/2017 0:00	08N	433373	7049475		819	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Quartz Chips	
1545817	CG01	8/19/2017 0:00	08N	430641	7045724		1225	Auger	110	C	Flat	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545818	CG01	8/19/2017 0:00	08N	430628	7045746		1228	Auger	100	C	Subtle Slope	Chocolate Brown	Dwarf Birch	Reindeer Moss	Damp	Good	Sand		
1545819	CG01	8/19/2017 0:00	08N	430620	7045770		1229	Auger	100	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545820	CG01	8/19/2017 0:00	08N	430608	7045791		1230	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545821	CG01	8/19/2017 0:00	08N	430598	7045812		1231	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand		
1545822	CG01	8/19/2017 0:00	08N	430587	7045838		1230	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545823	CG01	8/19/2017 0:00	08N	430576	7045860		1228	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545824	CG01	8/19/2017 0:00	08N	430565	7045884		1225	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand		
1545825	CG01	8/19/2017 0:00	08N	430565	7045884	1545824	1225	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand		
1545826	CG01	8/19/2017 0:00	08N	430554	7045905		1221	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545827	CG01	8/19/2017 0:00	08N	430540	7045927		1217	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545828	CG01	8/19/2017 0:00	08N	430531	7045950		1213	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545829	CG01	8/19/2017 0:00	08N	430520	7045972		1209	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545830	CG01	8/19/2017 0:00	08N	430512	7045994		1202	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545831	CG01	8/19/2017 0:00	08N	430496	7046015		1198	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545832	CG01	8/19/2017 0:00	08N	430488	7046040		1192	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545833	CG01	8/19/2017 0:00	08N	430475	7046062		1187	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545834	CG01	8/19/2017 0:00	08N	430468	7046083		1182	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545835	CG01	8/19/2017 0:00	08N	430557	7046127		1186	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545836	CG01	8/19/2017 0:00	08N	430567	7046104		1191	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545837	CG01	8/19/2017 0:00	08N	430579	7046083		1197	Auger	100	C	Subtle Slope	Chocolate Brown	Pine	Reindeer Moss	Damp	Good	Sand		

sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1545838	CG01	8/19/2017 0:00	08N	430588	7046058		1201	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545839	CG01	8/19/2017 0:00	08N	430600	7046037		1205	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545840	CG01	8/19/2017 0:00	08N	430608	7046013		1209	Auger	100	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545841	CG01	8/19/2017 0:00	08N	430621	7045994		1211	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545842	CG01	8/19/2017 0:00	08N	430630	7045968		1214	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545843	CG01	8/19/2017 0:00	08N	430643	7045948		1217	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545844	CG01	8/19/2017 0:00	08N	430656	7045925		1219	Auger	90	C	Flat	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545845	CG01	8/19/2017 0:00	08N	430666	7045899		1221	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545846	CG01	8/19/2017 0:00	08N	430681	7045882		1224	Auger	100	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545847	CG01	8/19/2017 0:00	08N	430688	7045855		1227	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545848	CG01	8/19/2017 0:00	08N	430699	7045835		1230	Auger	100	C	Flat	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545849	CG01	8/19/2017 0:00	08N	430710	7045811		1231	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545850	CG01	8/19/2017 0:00	08N	430710	7045811	1545849	1231	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545851	CG01	8/19/2017 0:00	08N	430723	7045789		1233	Auger	110	C	Flat	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545852	CG01	8/19/2017 0:00	08N	430731	7045770		1234	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545853	CG01	8/20/2017 0:00	08N	427361	7044929		1227	Auger	60	C	Flat	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545854	CG01	8/20/2017 0:00	08N	427372	7044906		1237	Auger	70	C	Flat	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545855	CG01	8/20/2017 0:00	08N	427381	7044883		1236	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545856	CG01	8/20/2017 0:00	08N	427396	7044861		1236	Auger	80	C	Flat	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545857	CG01	8/20/2017 0:00	08N	427404	7044839		1235	Auger	80	C	Flat	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545858	CG01	8/20/2017 0:00	08N	427416	7044816		1234	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545859	CG01	8/20/2017 0:00	08N	427424	7044791		1233	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545860	CG01	8/20/2017 0:00	08N	427438	7044770		1231	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545861	CG01	8/20/2017 0:00	08N	427448	7044748		1229	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545862	CG01	8/20/2017 0:00	08N	427461	7044727		1228	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545863	CG01	8/20/2017 0:00	08N	427468	7044703		1227	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545864	CG01	8/20/2017 0:00	08N	427484	7044684		1224	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand		
1545865	CG01	8/20/2017 0:00	08N	427490	7044658		1220	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545866	CG01	8/20/2017 0:00	08N	427503	7044636		1215	Auger	40	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rocky Terrain	
1545867	CG01	8/20/2017 0:00	08N	427514	7044614		1209	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545868	CG01	8/20/2017 0:00	08N	427526	7044589		1204	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545869	CG01	8/20/2017 0:00	08N	427535	7044569		1201	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545870	CG01	8/20/2017 0:00	08N	427624	7044615		1204	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Bare Soil	Damp	Good	Sand		
1545871	CG01	8/20/2017 0:00	08N	427613	7044635		1209	Auger	40	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545872	CG01	8/20/2017 0:00	08N	427605	7044658		1216	Auger	40	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545873	CG01	8/20/2017 0:00	08N	427594	7044681		1221	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545874	CG01	8/20/2017 0:00	08N	427581	7044702		1223	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545875	CG01	8/20/2017 0:00	08N	427581	7044702	1545874	1223	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545901	CG01	8/20/2017 0:00	08N	427571	7044726		1227	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545902	CG01	8/20/2017 0:00	08N	427558	7044746		1229	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Bright Orange Rust	
1545903	CG01	8/20/2017 0:00	08N	427547	7044771		1231	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545904	CG01	8/20/2017 0:00	08N	427537	7044795		1234	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545905	CG01	8/20/2017 0:00	08N	427527	7044815		1238	Auger	60	C	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545906	CG01	8/20/2017 0:00	08N	427517	7044842		1241	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Quartz Chips	
1545907	CG01	8/20/2017 0:00	08N	427503	7044861		1243	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545908	CG01	8/20/2017 0:00	08N	427494	7044883		1243	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545909	CG01	8/20/2017 0:00	08N	427482	7044906		1242	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545910	CG01	8/20/2017 0:00	08N	427471	7044929		1241	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545911	CG01	8/20/2017 0:00	08N	427464	7044952		1241	Auger	40	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545912	CG01	8/20/2017 0:00	08N	427449	7044972		1240	Auger	60	C	Flat	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1546001	RD03	8/16/2017 0:00	08N	433464	7047240		1205	Auger	80	C	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Sandy
1546002	RD03	8/16/2017 0:00	08N	433453	7047261		1202	Auger	60	C	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Sandy
1546003	RD03	8/16/2017 0:00	08N	433442	7047283		1198	Auger	80	C	Subtle Slope	Light Grey	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Fine	Rocky Terrain
1546004	RD03	8/16/2017 0:00	08N	433431	7047305		1196	Auger	80	C	Subtle Slope	Grey	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Fine	Rocky Terrain
1546005	RD03	8/16/2017 0:00	08N	433421	7047328		1193	Auger	90	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Rocky Terrain
1546006	RD03	8/16/2017 0:00	08N	433409	7047351		1188	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Rocky Terrain
1546007	RD03	8/16/2017 0:00	08N	433398	7047373		1183	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Rocky Terrain
1546008	RD03	8/16/2017 0:00	08N	433388	7047395		1178	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Quartz Chips
1546009	RD03	8/16/2017 0:00	08N	433376	7047418		1174	Auger	80	B	Subtle Slope	Dark Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Fine	Clay
1546010	RD03	8/16/2017 0:00	08N	433365	7047441		1170	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Partially Frozen	Sandy
1546011	RD03	8/16/2017 0:00	08N	433355	7047463		1167	Auger	60	C	Subtle Slope	Grey	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Bright Orange Rust	Rocky Terrain
1546012	RD03	8/16/2017 0:00	08N	433344	7047486		1165	Auger	90	C	Subtle Slope	Light Grey	Mixed Coniferous	Reindeer Moss	Damp	Excellent	Sand	Fine	Bright Orange Rust
1546013	RD03	8/16/2017 0:00	08N	433333	7047509		1165	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Quartz Chips	
1546014	RD03	8/16/2017 0:00	08N	433322	7047531		1163	Auger	80	C	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Dull Red Rust
1546015	RD03	8/16/2017 0:00	08N	433310	7047553		1160	Auger	60	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Coarse	Rocky Sample
1546016	RD03	8/16/2017 0:00	08N	433300	7047576		1156	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Terrain	Quartz Chips
1546017	RD03	8/16/2017 0:00	08N	433289	7047599		1152	Auger	80	B	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Wet	Good	Silt	Fine	Clay
1546018	RD03	8/16/2017 0:00	08N	433278	7047620		1149	Auger	80	C	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Wet	Excellent	Sand	Rusty Rock Chip	Bright Orange Rust
1546019	RD03	8/16/2017 0:00	08N	433268	7047643		1146	Auger	80	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Clay	Bright Orange Rust
1546020	RD03	8/16/2017 0:00	08N	433256	7047666		1142	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Silt	Wet Soil	Partially Frozen
1546021	RD03	8/16/2017 0:00	08N	433245	7047688		1139	Auger	70	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Silt	Wet Soil	Rocky Terrain
1546022	RD03	8/16/2017 0:00	08N	433234	7047711		1136	Auger	60	B	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Wet	Good	Silt	Wet Soil	Sandy
1546023	RD03	8/16/2017 0:00	08N	433223	7047733		1133	Auger	60	B	Subtle Slope	Grey	Subalpine Fir	Sphagnum Moss < 30cm	Wet	Good	Silt	Partially Frozen	Wet Soil
1546024	RD03	8/16/2017 0:00	08N	433212	7047756		1144	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Wet	Good	Sand	Fine	Partially Frozen
1546025	RD03	8/16/2017 0:00	08N	433212	7047756	1546024	1144	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Wet	Good	Sand	Fine	Partially Frozen
1546026	RD03	8/16/2017 0:00	08N	433113	7047959		1093	Auger	70	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Dull Red Rust
1546027	RD03	8/16/2017 0:00	08N	433124	7047937		1098	Auger	70	C	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Rocky Terrain
1546028	RD03	8/16/2017 0:00	08N	433135	7047914		1099	Auger	70	C	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Rocky Terrain
1546029	RD03	8/16/2017 0:00	08N	433146	7047893		1105	Auger	70	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Bright Orange Rust
1546030	RD03	8/16/2017 0:00	08N	433157	7047869		1110	Auger	70	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Silt	Dull Red Rust	Clay
1546031	RD03	8/16/2017 0:00	08N	433167	7047846		1116	Auger	70	B	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Clay	Rocky Terrain
1546032	RD03	8/16/2017 0:00	08N	433179	7047824		1120	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Silt	Clay	Sandy
1546033	RD03	8/16/2017 0:00	08N	433189	7047802		1122	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Wet	Good	Silt	Clay	Partially Frozen
1546034	RD03	8/16/2017 0:00	08N	433200	7047780		1126	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Wet	Good	Silt	Clay	Partially Frozen
1546076	RD03	8/18/2017 0:00	08N	433024	7048136		1053	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Fine	Rocky Terrain

sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1546077	RD03	8/18/2017 0:00	08N	433016	7048158		1053	Auger	70	C	Subtle Slope	Dark Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Fine	Rocky Terrain
1546078	RD03	8/18/2017 0:00	08N	433005	7048181		1050	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Fine	Rocky Terrain
1546079	RD03	8/18/2017 0:00	08N	432994	7048204		1048	Auger	80	C	Subtle Slope	Dark Blue Black	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Coarse	Rocky Sample
1546080	RD03	8/18/2017 0:00	08N	432982	7048226		1045	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Coarse	Rusty Rock Chip
1546081	RD03	8/18/2017 0:00	08N	432971	7048249		1040	Auger	90	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Coarse	Rusty Rock Chip
1546082	RD03	8/18/2017 0:00	08N	432960	7048271		1033	Auger	50	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	Clay
1546083	RD03	8/18/2017 0:00	08N	432949	7048294		1026	Auger	90	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Rusty Rock Chip
1546084	RD03	8/18/2017 0:00	08N	432938	7048317		1021	Auger	100	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Rocky Terrain
1546085	RD03	8/18/2017 0:00	08N	432928	7048339		1014	Auger	90	C	Subtle Slope	Light Bluish Grey	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Rusty Rock Chip	Rocky Terrain
1546086	RD03	8/18/2017 0:00	08N	432917	7048361		1009	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Fine	Rocky Terrain
1546087	RD03	8/18/2017 0:00	08N	432905	7048383		1002	Auger	60	C	Subtle Slope	Light Bluish Grey	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Fine	Rocky Terrain
1546088	RD03	8/18/2017 0:00	08N	432894	7048406		995	Auger	70	C	Subtle Slope	Light Bluish Grey	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Rocky Terrain
1546089	RD03	8/18/2017 0:00	08N	432884	7048428		989	Auger	110	C	Subtle Slope	Light Bluish Grey	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Bright Orange Rust
1546090	RD03	8/18/2017 0:00	08N	432872	7048450		982	Auger	80	C	Subtle Slope	Light Bluish Grey	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Quartz Chips	Rusty Rock Chip
1546091	RD03	8/18/2017 0:00	08N	432861	7048473		976	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Rocky Terrain
1546092	RD03	8/18/2017 0:00	08N	432850	7048496		969	Auger	60	C	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Quartz Chips	Rocky Terrain
1546093	RD03	8/18/2017 0:00	08N	432839	7048518		965	Auger	90	C	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Fine	Rocky Terrain
1546094	RD03	8/18/2017 0:00	08N	432828	7048541		961	Auger	80	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Wet Soil	Clay
1546095	RD03	8/18/2017 0:00	08N	432816	7048563		954	Auger	80	C	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Quartz Chips	Rocky Terrain
1546096	RD03	8/18/2017 0:00	08N	432805	7048585		950	Auger	90	C	Subtle Slope	Bluish Grey	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Bright Orange Rust
1546097	RD03	8/18/2017 0:00	08N	432794	7048608		945	Auger	80	C	Subtle Slope	Reddish Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Clay	Rocky Terrain
1546098	RD03	8/18/2017 0:00	08N	432784	7048630		942	Auger	90	C	Subtle Slope	Dark Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Fine	Clay
1546099	RD03	8/18/2017 0:00	08N	432773	7048653		938	Auger	60	C	Subtle Slope	Dark Brown	Subalpine Fir	Sphagnum Moss < 30cm	Wet	Good	Silt	Clay	Partially Frozen
1546100	RD03	8/18/2017 0:00	08N	432773	7048653	1546099	938	Auger	60	C	Subtle Slope	Dark Brown	Subalpine Fir	Sphagnum Moss < 30cm	Wet	Good	Silt	Clay	Partially Frozen
1546101	RD03	8/18/2017 0:00	08N	432762	7048675		935	Auger	60	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Bright Orange Rust	Rusty Rock Chip
1546102	RD03	8/18/2017 0:00	08N	432750	7048697		930	Auger	80	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Bright Orange Rust
1546103	RD03	8/18/2017 0:00	08N	432739	7048721		924	Auger	80	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Dull Red Rust
1546104	RD03	8/18/2017 0:00	08N	432728	7048743		918	Auger	80	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Rocky Sample	Partially Frozen
1546105	RD03	8/18/2017 0:00	08N	432718	7048765		910	Auger	100	C	Subtle Slope	Bluish Grey	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Clay	Partially Frozen
1546106	RD03	8/18/2017 0:00	08N	432706	7048788		905	Auger	60	C	Subtle Slope	Bluish Grey	Black Spruce	Sphagnum Moss > 30cm	Damp	Good	Silt	Clay	Partially Frozen
1546107	RD03	8/18/2017 0:00	08N	432695	7048810		898	Auger	60	B	Subtle Slope	Dark Brown	Black Spruce	Sphagnum Moss > 30cm	Damp	Good	Silt	Partially Frozen	Sandy
1546108	RD03	8/18/2017 0:00	08N	432684	7048833		895	Auger	60	B	Subtle Slope	Dark Brown	Black Spruce	Sphagnum Moss > 30cm	Damp	Poor	Silt	Organic 10%	Partially Frozen
1546109	RD03	8/18/2017 0:00	08N	432673	7048855		890	Auger	50	B	Subtle Slope	Dark Brown	Black Spruce	Sphagnum Moss > 30cm	Damp	Poor	Silt	Organic 10%	Partially Frozen
1546110	RD03	8/19/2017 0:00	08N	432116	7046805		1193	Auger	80	C	Subtle Slope	Dark Brown	Mixed Coniferous	Thin Moss Cover	Damp	Good	Sand	Fine	Rocky Terrain
1546111	RD03	8/19/2017 0:00	08N	432109	7046830		1198	Auger	80	C	Subtle Slope	Light Brown	Mixed Coniferous	Thin Moss Cover	Damp	Excellent	Sand	Rocky Terrain	Fine
1546112	RD03	8/19/2017 0:00	08N	432098	7046853		1197	Auger	90	C	Subtle Slope	Light Brown	Mixed Coniferous	Reindeer Moss	Damp	Excellent	Sand	Fine	Rocky Terrain
1546113	RD03	8/19/2017 0:00	08N	432087	7046875		1196	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Fine	Rocky Sample
1546114	RD03	8/19/2017 0:00	08N	432075	7046897		1192	Auger	80	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Rocky Terrain
1546115	RD03	8/19/2017 0:00	08N	432064	7046919		1195	Auger	90	C	Subtle Slope	Light Bluish Grey	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Rocky Terrain
1546116	RD03	8/19/2017 0:00	08N	432051	7046942		1190	Auger	110	C	Subtle Slope	Light Bluish Grey	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Rocky Sample
1546117	RD03	8/19/2017 0:00	08N	432042	7046965		1184	Auger	90	C	Subtle Slope	Dark Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Silt	Quartz Chips	Rocky Sample
1546118	RD03	8/19/2017 0:00	08N	432031	7046987		1180	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Rocky Sample
1546119	RD03	8/19/2017 0:00	08N	432019	7047010		1177	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Wet	Good	Silt	Sandy	Wet Soil
1546120	RD03	8/19/2017 0:00	08N	432007	7047032		1174	Auger	80	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Rocky Terrain	Rocky Sample
1546121	RD03	8/19/2017 0:00	08N	431997	7047055		1169	Auger	80	C	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Silt	Sandy	Rocky Terrain
1546122	RD03	8/19/2017 0:00	08N	431985	7047076		1165	Auger	60	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	Rocky Terrain
1546123	RD03	8/19/2017 0:00	08N	431975	7047098		1162	Auger	60	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	Sandy
1546124	RD03	8/19/2017 0:00	08N	431963	7047120		1159	Auger	70	B	Subtle Slope	Dark Brown	Subalpine Fir	Thin Moss Cover	Wet	Good	Sand	Fine	Partially Frozen
1546125	RD03	8/19/2017 0:00	08N	431963	7047120	1546124	1159	Auger	70	B	Subtle Slope	Dark Brown	Subalpine Fir	Thin Moss Cover	Wet	Good	Sand	Fine	Partially Frozen
1546126	RD03	8/19/2017 0:00	08N	431951	7047143		1155	Auger	110	C	Subtle Slope	Light Grey	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Fine	Bright Orange Rust
1546127	RD03	8/19/2017 0:00	08N	431940	7047165		1152	Auger	80	C	Subtle Slope	Light Bluish Grey	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Clay	Partially Frozen
1546128	RD03	8/19/2017 0:00	08N	432030	7047209		1149	Auger	80	B	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Bright Orange Rust
1546129	RD03	8/19/2017 0:00	08N	432040	7047186		1154	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Rusty Rock Chip
1546130	RD03	8/19/2017 0:00	08N	432051	7047164		1160	Auger	80	B	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Bright Orange Rust
1546131	RD03	8/19/2017 0:00	08N	432062	7047141		1165	Auger	60	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Rocky Terrain
1546132	RD03	8/19/2017 0:00	08N	432073	7047119		1169	Auger	60	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Rusty Rock Chip
1546133	RD03	8/19/2017 0:00	08N	432083	7047096		1172	Auger	100	B	Subtle Slope	Reddish Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Fine	Dull Red Rust
1546134	RD03	8/19/2017 0:00	08N	432095	7047074		1175	Auger	80	B	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Rocky Terrain
1546135	RD03	8/19/2017 0:00	08N	432106	7047051		1178	Auger	90	C	Subtle Slope	Dark Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Silt	Sandy	Rocky Terrain
1546136	RD03	8/19/2017 0:00	08N	432117	7047028		1181	Auger	60	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	Rocky Terrain
1546137	RD03	8/19/2017 0:00	08N	432127	7047007		1185	Auger	80	C	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Rocky Terrain	Rocky Sample
1546138	RD03	8/19/2017 0:00	08N	432138	7046983		1187	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Silt	Rocky Sample	Rocky Terrain
1546139	RD03	8/19/2017 0:00	08N	432150	7046961		1191	Auger	110	C	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Rocky Sample
1546140	RD03	8/19/2017 0:00	08N	432160	7046939		1195	Auger	80	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Rocky Terrain
1546141	RD03	8/19/2017 0:00	08N	432172	7046917		1196	Auger	100	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Partially Frozen	Sandy
1546142	RD03	8/19/2017 0:00	08N	432183	7046894		1200	Auger	70	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Rocky Terrain
1546143	RD03	8/19/2017 0:00	08N	432194	7046872		1202	Auger	70	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rocky Terrain	Sandy
1546144	RD03	8/19/2017 0:00	08N	432206	7046848		1207	Auger	70	B	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rocky Terrain	Dull Red Rust
1546151	RD03	8/20/2017 0:00	08N	429185	7046435		1126	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Fine	Rocky Sample
1546152	RD03	8/20/2017 0:00	08N	429197	7046413		1133	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Fine	Loess
1546153	RD03	8/20/2017 0:00	08N	429208	7046391		1137	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Terrain	Loess
1546154	RD03	8/20/2017 0:00	08N	429219	7046368		1142	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Rocky Terrain	Quartz Chips
1546155	RD03	8/20/2017 0:00	08N	429230	7046346		1144	Auger	100	B	Subtle Slope	Light Grey	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Rocky Terrain
1546156	RD03	8/20/2017 0:00	08N	429241	7046322		1149	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Coarse	Rocky Sample
1546157	RD03	8/20/2017 0:00	08N	429252	7046300		1152	Auger	70	B	Subtle Slope	Reddish Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Fine	Rocky Terrain
1546158	RD03	8/20/2017 0:00	08N	429264	7046276		1155	Auger	60	B	Subtle Slope	Dark Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Rocky Sample	Rocky Terrain
1546159	RD03	8/20/2017 0:00	08N	429274	7046256		1156	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Coarse	Rocky Terrain
1546160	RD03	8/20/2017 0:00	08N	429285	7046233		1159	Auger	90	B	Subtle Slope	Dark Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Fine	Rocky Terrain
1546161	RD03	8/20/2017 0:00	08N	429295	7046209		1161	Auger	90	B	Subtle Slope	Reddish Brown	Mixed Coniferous	Thin Moss Cover	Damp	Good	Sand	Dull Red Rust	Rocky Terrain
1546162	RD03	8/20/2017 0:00	08N	429306	7046187		1162	Auger	60	B	Subtle Slope	Reddish Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Loess	Dull Red Rust
1546163	RD03	8/20/2017 0:00	08N	429316	7046164		1164	Auger	60	C	Subtle Slope	Light Brown	Mixed Coniferous	Thin Moss Cover	Damp	Excellent	Sand	Coarse	Rocky Sample
1546164	RD03	8/20/2017 0:00	08N	429328	7046142		1164	Auger	60	B	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Rocky Terrain
1546165	RD03	8/20/2017 0:00	08N	429339	7046120		1165	Auger	60	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rocky Terrain	Quartz Chips
1546166	RD03	8/20/2017 0:00	08N	429349	7046097		1166	Auger	70	B	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Rocky Terrain
1546167	RD03	8/20/2017 0:00	08N	429361	7046075		1151	Auger	80	B	Subtle Slope	Reddish Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Quartz Chips

sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1546168	RD03	8/20/2017 0:00	08N	429181	7045989		1174	Auger	70	B	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Fine	Rocky Terrain
1546169	RD03	8/20/2017 0:00	08N	429172	7046012		1175	Auger	70	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Dull Red Rust	Rocky Terrain
1546170	RD03	8/20/2017 0:00	08N	429161	7046035		1175	Auger	70	B	Subtle Slope	Dark Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	Dull Red Rust
1546171	RD03	8/20/2017 0:00	08N	429150	7046057		1174	Auger	90	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	Bright Orange Rust
1546172	RD03	8/20/2017 0:00	08N	429139	7046080		1172	Auger	80	C	Subtle Slope	Dark Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Fine	Rocky Terrain
1546173	RD03	8/20/2017 0:00	08N	429129	7046101		1171	Auger	60	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Rocky Terrain
1546174	RD03	8/20/2017 0:00	08N	429117	7046123		1169	Auger	90	C	Subtle Slope	Grey	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Fine	Rusty Rock Chip
1546175	RD03	8/20/2017 0:00	08N	429117	7046123	1546174	1169	Auger	90	C	Subtle Slope	Grey	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Fine	Rusty Rock Chip
1546176	RD03	8/20/2017 0:00	08N	429105	7046146		1168	Mattock	80	B	Subtle Slope	Reddish Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Fine	Dull Red Rust
1546177	RD03	8/20/2017 0:00	08N	429094	7046169		1165	Auger	60	B	Subtle Slope	Reddish Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Fine	Rocky Terrain
1546178	RD03	8/20/2017 0:00	08N	429083	7046190		1164	Auger	80	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	Rocky Terrain
1546179	RD03	8/20/2017 0:00	08N	429072	7046213		1160	Auger	70	C	Subtle Slope	Dark Brown	Subalpine Fir	Sphagnum Moss > 30cm	Damp	Excellent	Sand	Rocky Sample	Quartz Chips
1546180	RD03	8/20/2017 0:00	08N	429062	7046235		1159	Auger	70	C	Subtle Slope	Dark Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Fine	Rocky Terrain
1546181	RD03	8/20/2017 0:00	08N	429050	7046258		1158	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Fine	Rocky Terrain
1546182	RD03	8/20/2017 0:00	08N	429005	7046347		1151	Auger	80	B	Subtle Slope	Reddish Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Fine	Rocky Terrain
1546183	RD03	8/20/2017 0:00	08N	429016	7046324		1154	Auger	60	C	Subtle Slope	Light Bluish Grey	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Fine	Rocky Sample
1546184	RD03	8/20/2017 0:00	08N	429027	7046302		1154	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Quartz Chips	Rocky Sample
1546185	RD03	8/20/2017 0:00	08N	429038	7046279		1156	Auger	80	C	Subtle Slope	Reddish Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Coarse	Rocky Sample
1547751	VV01	8/16/2017 0:00	08N	433554	7047284		1183	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Dull Red Rust
1547752	VV01	8/16/2017 0:00	08N	433542	7047304		1184	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1547753	VV01	8/16/2017 0:00	08N	433533	7047328		1181	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Silt	Sandy	Dull Red Rust
1547754	VV01	8/16/2017 0:00	08N	433522	7047349		1180	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Wet	Excellent	Silt	Sandy	Dull Red Rust
1547755	VV01	8/16/2017 0:00	08N	433511	7047372		1177	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Dull Red Rust
1547756	VV01	8/16/2017 0:00	08N	433500	7047395		1175	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Dull Red Rust
1547757	VV01	8/16/2017 0:00	08N	433490	7047416		1171	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Silt	Sandy	Dull Red Rust
1547758	VV01	8/16/2017 0:00	08N	433478	7047439		1169	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Silt	Sandy	Dull Red Rust
1547759	VV01	8/16/2017 0:00	08N	433467	7047463		1166	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Silt	Sandy	Dull Red Rust
1547760	VV01	8/16/2017 0:00	08N	433455	7047485		1163	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Excellent	Silt	Sandy	Dull Red Rust
1547761	VV01	8/16/2017 0:00	08N	433447	7047506		1159	Auger	50	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Sand	Partially Frozen	
1547762	VV01	8/16/2017 0:00	08N	433433	7047530		1157	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Excellent	Sand	Fine	
1547763	VV01	8/16/2017 0:00	08N	433422	7047553		1153	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Quartz Chips
1547764	VV01	8/16/2017 0:00	08N	433411	7047575		1150	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Excellent	Sand	Fine	Rocky Sample
1547765	VV01	8/16/2017 0:00	08N	433401	7047597		1148	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Fine	Dull Red Rust
1547766	VV01	8/16/2017 0:00	08N	433390	7047620		1145	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547767	VV01	8/16/2017 0:00	08N	433379	7047642		1142	Auger	50	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547768	VV01	8/16/2017 0:00	08N	433367	7047666		1140	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547769	VV01	8/16/2017 0:00	08N	433357	7047687		1138	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547770	VV01	8/16/2017 0:00	08N	433345	7047711		1135	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Dull Red Rust
1547771	VV01	8/16/2017 0:00	08N	433335	7047732		1134	Auger	80	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Sand	Fine	Dull Red Rust
1547772	VV01	8/16/2017 0:00	08N	433324	7047755		1133	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Dull Red Rust
1547773	VV01	8/16/2017 0:00	08N	433312	7047777		1132	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Silt	Sandy	Fine
1547774	VV01	8/16/2017 0:00	08N	433301	7047802		1131	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Silt	Sandy	Dull Red Rust
1547775	VV01	8/16/2017 0:00	08N	433301	7047802	1547774	1131	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Silt	Sandy	Dull Red Rust
1547776	VV01	8/16/2017 0:00	08N	433291	7047823		1128	Auger	50	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547777	VV01	8/16/2017 0:00	08N	433279	7047844		1118	Auger	50	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Quartz Chips	
1547778	VV01	8/16/2017 0:00	08N	433269	7047867		1109	Auger	60	C	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Silt	Sandy	
1547779	VV01	8/16/2017 0:00	08N	433258	7047890		1105	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547780	VV01	8/16/2017 0:00	08N	433247	7047912		1101	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547781	VV01	8/16/2017 0:00	08N	433236	7047935		1098	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Quartz Chips	
1547782	VV01	8/16/2017 0:00	08N	433224	7047956		1095	Auger	60	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547783	VV01	8/16/2017 0:00	08N	433214	7047980		1089	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Coarse	Quartz Chips
1547784	VV01	8/16/2017 0:00	08N	433203	7048002		1086	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Coarse	Quartz Chips
1547785	VV01	8/20/2017 0:00	08N	428094	7044785		1206	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	
1547826	VV01	8/18/2017 0:00	08N	433203	7048223		1100	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Fine
1547827	VV01	8/18/2017 0:00	08N	433193	7048246		1075	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Sand	Fine	Dull Red Rust
1547828	VV01	8/18/2017 0:00	08N	433182	7048267		1065	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Sand	Fine	
1547829	VV01	8/18/2017 0:00	08N	433170	7048292		1055	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Silt	Sandy	
1547830	VV01	8/18/2017 0:00	08N	433160	7048312		1048	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Sand	Fine	Dull Red Rust
1547831	VV01	8/18/2017 0:00	08N	433149	7048335		1041	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Silt	Sandy	Dull Red Rust
1547832	VV01	8/18/2017 0:00	08N	433137	7048358		1035	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Sand	Fine	
1547833	VV01	8/18/2017 0:00	08N	433128	7048382		1029	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Quartz Chips
1547834	VV01	8/18/2017 0:00	08N	433116	7048402		1022	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547835	VV01	8/18/2017 0:00	08N	433105	7048426		1015	Auger	100	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Sand	Fine	Bright Orange Rust
1547836	VV01	8/18/2017 0:00	08N	433094	7048448		1007	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Fine	Quartz Chips
1547837	VV01	8/18/2017 0:00	08N	433083	7048472		999	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Sand	Fine	Quartz Chips
1547838	VV01	8/18/2017 0:00	08N	433072	7048493		991	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547839	VV01	8/18/2017 0:00	08N	433060	7048516		986	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547840	VV01	8/18/2017 0:00	08N	433049	7048537		979	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547841	VV01	8/18/2017 0:00	08N	433039	7048561		972	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547842	VV01	8/18/2017 0:00	08N	433027	7048584		967	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	
1547843	VV01	8/18/2017 0:00	08N	433018	7048605		963	Auger	60	C	Subtle Slope	Chocolate Brown	White Spruce	Reindeer Moss	Damp	Good	Silt	Quartz Chips	Dull Red Rust
1547844	VV01	8/18/2017 0:00	08N	433007	7048628		957	Auger	100	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547845	VV01	8/18/2017 0:00	08N	432996	7048649		953	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547846	VV01	8/18/2017 0:00	08N	432985	7048673		945	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547847	VV01	8/18/2017 0:00	08N	432974	7048696		939	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Quartz Chips
1547848	VV01	8/18/2017 0:00	08N	432962	7048718		934	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Dull Red Rust
1547849	VV01	8/18/2017 0:00	08N	432951	7048743		929	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Quartz Chips	Dull Red Rust
1547850	VV01	8/18/2017 0:00	08N	432951	7048743	1547849	929	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Quartz Chips	Dull Red Rust
1547851	VV01	8/18/2017 0:00	08N	432940	7048763		924	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Bright Orange Rust
1547852	VV01	8/18/2017 0:00	08N	432929	7048784		920	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Rusty Rock Chip
1547853	VV01	8/18/2017 0:00	08N	432918	7048808		913	Auger	80	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Bright Orange Rust
1547854	VV01	8/18/2017 0:00	08N	432907	7048830		908	Auger	100	B	Subtle Slope	Dark Grey Black	Subalpine Fir	Reindeer Moss	Wet	Good	Sand	Fine	
1547855	VV01	8/18/2017 0:00	08N	432895	7048852		904	Auger	70	B	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547856	VV01	8/18/2017 0:00	08N	432885	7048876		901	Auger	80	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Dull Red Rust
1547857	VV01	8/18/2017 0:00	08N	432876	7048898		897	Auger	50	B	Subtle Slope	Chocolate Brown	White Spruce	Reindeer Moss	Damp	Good	Silt	Sandy	Dull Red Rust

sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1547858	VV01	8/18/2017 0:00	08N	432863	7048922		893	Auger	90	B	Subtle Slope	Chocolate Brown	White Spruce	Reindeer Moss	Damp	Good	Sand	Fine	Rusty Rock Chip
1547859	VV01	8/18/2017 0:00	08N	432854	7048942		889	Auger	80	B	Subtle Slope	Chocolate Brown	White Spruce	Reindeer Moss	Damp	Good	Sand	Fine	
1547861	VV01	8/19/2017 0:00	08N	431028	7046302		1205	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547862	VV01	8/19/2017 0:00	08N	431016	7046324		1203	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	Dull Red Rust
1547863	VV01	8/19/2017 0:00	08N	431005	7046347		1198	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547864	VV01	8/19/2017 0:00	08N	430994	7046371		1194	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547865	VV01	8/19/2017 0:00	08N	430983	7046392		1190	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547866	VV01	8/19/2017 0:00	08N	430975	7046414		1187	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547867	VV01	8/19/2017 0:00	08N	430962	7046437		1181	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547868	VV01	8/19/2017 0:00	08N	430949	7046458		1175	Auger	80	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547869	VV01	8/19/2017 0:00	08N	430940	7046482		1169	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547870	VV01	8/19/2017 0:00	08N	430929	7046504		1163	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547871	VV01	8/19/2017 0:00	08N	430918	7046527		1156	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547872	VV01	8/19/2017 0:00	08N	430908	7046548		1151	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547873	VV01	8/19/2017 0:00	08N	430895	7046572		1144	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547874	VV01	8/19/2017 0:00	08N	430886	7046593		1137	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	
1547875	VV01	8/19/2017 0:00	08N	430886	7046593	1547874	1137	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	
1547876	VV01	8/19/2017 0:00	08N	430875	7046616		1128	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547877	VV01	8/19/2017 0:00	08N	430863	7046636		1121	Auger	70	C	Subtle Slope	Chocolate Brown	White Spruce	Reindeer Moss	Damp	Good	Silt	Sandy	Quartz Chips
1547878	VV01	8/19/2017 0:00	08N	430853	7046661		1115	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547879	VV01	8/19/2017 0:00	08N	430763	7046616		1109	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547880	VV01	8/19/2017 0:00	08N	430774	7046596		1117	Auger	60	B	Subtle Slope	Chocolate Brown	White Spruce	Reindeer Moss	Damp	Good	Silt	Sandy	Quartz Chips
1547881	VV01	8/19/2017 0:00	08N	430783	7046573		1125	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547882	VV01	8/19/2017 0:00	08N	430795	7046550		1134	Auger	80	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547883	VV01	8/19/2017 0:00	08N	430806	7046528		1140	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547884	VV01	8/19/2017 0:00	08N	430818	7046505		1144	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547885	VV01	8/19/2017 0:00	08N	430829	7046484		1149	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547886	VV01	8/19/2017 0:00	08N	430839	7046460		1153	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	
1547887	VV01	8/19/2017 0:00	08N	430849	7046438		1159	Auger	90	B	Subtle Slope	Chocolate Brown	Dwarf Birch	Reindeer Moss	Damp	Good	Sand	Fine	
1547888	VV01	8/19/2017 0:00	08N	430861	7046415		1164	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547889	VV01	8/19/2017 0:00	08N	430872	7046389		1170	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	Dull Red Rust
1547890	VV01	8/19/2017 0:00	08N	430882	7046371		1175	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547891	VV01	8/19/2017 0:00	08N	430893	7046348		1182	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	Dull Red Rust
1547892	VV01	8/19/2017 0:00	08N	430904	7046325		1186	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547893	VV01	8/19/2017 0:00	08N	430915	7046303		1191	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547894	VV01	8/19/2017 0:00	08N	430925	7046279		1195	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547895	VV01	8/19/2017 0:00	08N	430938	7046257		1199	Auger	80	B	Subtle Slope	Chocolate Brown	Dwarf Birch	Thin Moss Cover	Damp	Good	Sand	Fine	Dull Red Rust
1547897	VV01	8/20/2017 0:00	08N	428382	7044649		1148	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Rusty Rock Chip
1547898	VV01	8/20/2017 0:00	08N	428370	7044672		1177	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	
1547899	VV01	8/20/2017 0:00	08N	428361	7044695		1182	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	
1547900	VV01	8/20/2017 0:00	08N	428361	7044695	1547899	1182	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Dull Red Rust
1547901	VV01	8/20/2017 0:00	08N	428350	7044717		1182	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Dull Red Rust
1547902	VV01	8/20/2017 0:00	08N	428339	7044740		1184	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Quartz Chips
1547903	VV01	8/20/2017 0:00	08N	428328	7044764		1187	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	Dull Red Rust
1547904	VV01	8/20/2017 0:00	08N	428317	7044786		1190	Auger	100	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Quartz Chips
1547905	VV01	8/20/2017 0:00	08N	428305	7044807		1192	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	
1547906	VV01	8/20/2017 0:00	08N	428294	7044830		1197	Auger	100	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Coarse
1547907	VV01	8/20/2017 0:00	08N	428284	7044853		1202	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Rusty Rock Chip
1547908	VV01	8/20/2017 0:00	08N	428273	7044875		1206	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	
1547909	VV01	8/20/2017 0:00	08N	428293	7044606		1157	Auger	50	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Quartz Chips
1547910	VV01	8/20/2017 0:00	08N	428282	7044628		1160	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547911	VV01	8/20/2017 0:00	08N	428270	7044651		1167	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Quartz Chips
1547912	VV01	8/20/2017 0:00	08N	428260	7044671		1170	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	
1547913	VV01	8/20/2017 0:00	08N	428249	7044695		1177	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Quartz Chips	Rusty Rock Chip
1547914	VV01	8/20/2017 0:00	08N	428238	7044717		1180	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Quartz Chips	
1547915	VV01	8/20/2017 0:00	08N	428227	7044741		1186	Auger	90	C	Subtle Slope	Reddish Yellow	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Silt	Quartz Chips	
1547916	VV01	8/20/2017 0:00	08N	428216	7044763		1192	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Quartz Chips	Dull Red Rust
1547917	VV01	8/20/2017 0:00	08N	428205	7044785		1198	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	Dull Red Rust
1547918	VV01	8/20/2017 0:00	08N	428193	7044809		1202	Auger	90	C	Subtle Slope	Reddish Yellow	Subalpine Fir	Reindeer Moss	Damp	Excellent	Silt	Quartz Chips	
1547919	VV01	8/20/2017 0:00	08N	428183	7044829		1206	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Quartz Chips
1547920	VV01	8/20/2017 0:00	08N	428201	7044562		1156	Auger	100	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Clay	
1547921	VV01	8/20/2017 0:00	08N	428191	7044585		1161	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Silt	Sandy	
1547922	VV01	8/20/2017 0:00	08N	428180	7044607		1168	Auger	80	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	
1547923	VV01	8/20/2017 0:00	08N	428170	7044630		1174	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Quartz Chips
1547924	VV01	8/20/2017 0:00	08N	428159	7044651		1178	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Quartz Chips
1547925	VV01	8/20/2017 0:00	08N	428159	7044651	1547924	1178	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Quartz Chips
1548001	NK01	8/16/2017 0:00	08N	434003	7047502		1117	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548002	NK01	8/16/2017 0:00	08N	433992	7047522		1114	Auger	70	B	Subtle Slope	Chocolate Brown	Black Spruce	Sphagnum Moss > 30cm	Wet	Excellent	Clay		
1548003	NK01	8/16/2017 0:00	08N	433982	7047546		1110	Auger	80	B	Subtle Slope	Grey	Black Spruce	Reindeer Moss	Wet	Excellent	Clay		
1548004	NK01	8/16/2017 0:00	08N	433971	7047569		1106	Auger	90	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Excellent	Clay		
1548005	NK01	8/16/2017 0:00	08N	433960	7047590		1101	Auger	90	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Excellent	Clay		
1548006	NK01	8/16/2017 0:00	08N	433949	7047613		1095	Auger	110	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Clay	Rocky Sample	
1548007	NK01	8/16/2017 0:00	08N	433937	7047636		1090	Auger	70	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Clay		
1548008	NK01	8/16/2017 0:00	08N	433927	7047658		1084	Auger	110	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Excellent	Clay		
1548009	NK01	8/16/2017 0:00	08N	433916	7047681		1079	Auger	100	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Excellent	Clay		
1548010	NK01	8/16/2017 0:00	08N	433904	7047702		1072	Auger	90	B	Subtle Slope	Grey	Black Spruce	Reindeer Moss	Damp	Excellent	Silt	Rocky Sample	
1548011	NK01	8/16/2017 0:00	08N	433894	7047726		1064	Auger	90	B	Subtle Slope	Grey	Black Spruce	Reindeer Moss	Wet	Good	Clay		
1548012	NK01	8/16/2017 0:00	08N	433884	7047747		1055	Auger	90	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548013	NK01	8/16/2017 0:00	08N	433871	7047771		1044	Auger	90	B	Subtle Slope	Grey	Black Spruce	Reindeer Moss	Wet	Good	Silt		
1548014	NK01	8/16/2017 0:00	08N	433859	7047793		1033	Auger	70	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Clay		
1548015	NK01	8/16/2017 0:00	08N	433849	7047816		1023	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Excellent	Silt		
1548016	NK01	8/16/2017 0:00	08N	433838	7047839		1015	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Sphagnum Moss > 30cm	Damp	Excellent	Clay		
1548017	NK01	8/16/2017 0:00	08N	433828	7047862		1006	Auger	70	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Clay		
1548018	NK01	8/16/2017 0:00	08N	433818	7047883		1000	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Sphagnum Moss > 30cm	Wet	Good	Silt		
1548019	NK01	8/16/2017 0:00	08N	433806	7047906		991	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Silt		

sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1548020	NK01	8/16/2017 0:00	08N	433781	7047955		971	Auger	70	B	Subtle Slope	Chocolate Brown	Black Spruce	Sphagnum Moss > 30cm	Wet	Excellent	Clay		
1548021	NK01	8/16/2017 0:00	08N	433795	7047930		978	Auger	70	B	Subtle Slope	Grey	Black Spruce	Sphagnum Moss > 30cm	Wet	Good	Silt		
1548022	NK01	8/16/2017 0:00	08N	433775	7047972		966	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Sphagnum Moss > 30cm	Wet	Good	Clay		
1548023	NK01	8/16/2017 0:00	08N	433762	7047996		970	Auger	80	B	Subtle Slope	Light Brown	Alders	Sphagnum Moss > 30cm	Damp	Good	Clay		
1548024	NK01	8/16/2017 0:00	08N	433751	7048019		967	Auger	70	B	Steep	Grey	Black Spruce	Reindeer Moss	Wet	Excellent	Silt	Rocky Sample	
1548025	NK01	8/16/2017 0:00	08N	433751	7048019		967	Auger	80	B	Steep	Chocolate Brown	Black Spruce	Sphagnum Moss > 30cm	Wet	Good	Silt		
1548026	NK01	8/16/2017 0:00	08N	433740	7048040		972	Auger	70	B	Subtle Slope	Chocolate Brown	Black Spruce	Thin Moss Cover	Damp	Good	Silt		
1548027	NK01	8/16/2017 0:00	08N	433730	7048063		977	Auger	80	B	Steep	Light Brown	White Spruce	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548028	NK01	8/16/2017 0:00	08N	433719	7048084		986	Auger	70	B	Steep	Chocolate Brown	White Spruce	Thin Moss Cover	Damp	Excellent	Silt		
1548029	NK01	8/16/2017 0:00	08N	433707	7048108		995	Auger	70	B	Steep	Reddish Yellow	White Spruce	Thin Moss Cover	Damp	Excellent	Silt		
1548030	NK01	8/16/2017 0:00	08N	433697	7048129		1003	Auger	80	C	Steep	Reddish Yellow	White Spruce	Reindeer Moss	Damp	Excellent	Silt		
1548031	NK01	8/16/2017 0:00	08N	433686	7048153		1003	Auger	80	B	Pronounced Slope	Chocolate Brown	White Spruce	Reindeer Moss	Damp	Good	Silt		
1548032	NK01	8/16/2017 0:00	08N	433674	7048177		1002	Auger	90	B	Pronounced Slope	Chocolate Brown	White Spruce	Reindeer Moss	Damp	Excellent	Silt		
1548033	NK01	8/16/2017 0:00	08N	433663	7048199		997	Auger	80	B	Subtle Slope	Chocolate Brown	White Spruce	Reindeer Moss	Damp	Excellent	Silt		
1548034	NK01	8/16/2017 0:00	08N	433653	7048220		995	Auger	90	B	Subtle Slope	Chocolate Brown	White Spruce	Reindeer Moss	Damp	Excellent	Silt		
1548051	NK01	8/18/2017 0:00	08N	432842	7050107		774	Auger	60	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Excellent	Clay		
1548052	NK01	8/18/2017 0:00	08N	432854	7050083		766	Auger	60	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548053	NK01	8/18/2017 0:00	08N	432865	7050060		767	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548054	NK01	8/18/2017 0:00	08N	432875	7050040		768	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Silt		
1548055	NK01	8/18/2017 0:00	08N	432886	7050017		769	Auger	90	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548056	NK01	8/18/2017 0:00	08N	432898	7049995		771	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548057	NK01	8/18/2017 0:00	08N	432909	7049970		775	Auger	90	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548058	NK01	8/18/2017 0:00	08N	432919	7049951		776	Auger	90	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548059	NK01	8/18/2017 0:00	08N	432931	7049927		778	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548060	NK01	8/18/2017 0:00	08N	432942	7049903		780	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548061	NK01	8/18/2017 0:00	08N	432953	7049882		782	Auger	70	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548062	NK01	8/18/2017 0:00	08N	432964	7049860		783	Auger	60	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548063	NK01	8/18/2017 0:00	08N	432974	7049838		783	Auger	70	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548064	NK01	8/18/2017 0:00	08N	432985	7049813		784	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548065	NK01	8/18/2017 0:00	08N	432995	7049793		787	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548066	NK01	8/18/2017 0:00	08N	433005	7049769		789	Auger	70	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548067	NK01	8/18/2017 0:00	08N	433017	7049749		791	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548068	NK01	8/18/2017 0:00	08N	433029	7049725		795	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Clay		
1548069	NK01	8/18/2017 0:00	08N	433039	7049703		796	Auger	100	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Clay		
1548070	NK01	8/18/2017 0:00	08N	433050	7049679		797	Auger	110	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Clay		
1548071	NK01	8/18/2017 0:00	08N	433063	7049655		799	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Excellent	Clay		
1548072	NK01	8/18/2017 0:00	08N	433072	7049633		800	Auger	60	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Clay		
1548073	NK01	8/18/2017 0:00	08N	433084	7049612		803	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Clay		
1548074	NK01	8/18/2017 0:00	08N	433095	7049591		808	Auger	70	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Clay		
1548075	NK01	8/18/2017 0:00	08N	433095	7049591		808	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Clay		
1548076	NK01	8/18/2017 0:00	08N	433105	7049569		810	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Clay		
1548077	NK01	8/18/2017 0:00	08N	433117	7049545		814	Auger	110	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Excellent	Clay		
1548078	NK01	8/18/2017 0:00	08N	433128	7049523		818	Auger	70	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Clay		
1548079	NK01	8/18/2017 0:00	08N	433139	7049498		821	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Clay		
1548080	NK01	8/18/2017 0:00	08N	433150	7049477		824	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Clay		
1548081	NK01	8/18/2017 0:00	08N	433160	7049455		830	Auger	70	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548082	NK01	8/18/2017 0:00	08N	433172	7049433		835	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Clay		
1548083	NK01	8/18/2017 0:00	08N	433182	7049410		840	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Silt		
1548084	NK01	8/18/2017 0:00	08N	433193	7049387		843	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Silt		
1548085	NK01	8/19/2017 0:00	08N	431441	7046365		1233	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Clay		
1548086	NK01	8/19/2017 0:00	08N	431431	7046386		1231	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548087	NK01	8/19/2017 0:00	08N	431420	7046410		1227	Auger	70	B	Subtle Slope	Chocolate Brown	Alders	Reindeer Moss	Damp	Good	Clay		
1548088	NK01	8/19/2017 0:00	08N	431408	7046431		1223	Auger	110	C	Subtle Slope	Chocolate Brown	Alders	Reindeer Moss	Damp	Excellent	Clay		
1548089	NK01	8/19/2017 0:00	08N	431398	7046455		1221	Auger	110	B	Subtle Slope	Chocolate Brown	Alders	Thin Moss Cover	Damp	Excellent	Clay		
1548090	NK01	8/19/2017 0:00	08N	431387	7046476		1216	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss > 30cm	Damp	Excellent	Clay		
1548091	NK01	8/19/2017 0:00	08N	431375	7046498		1213	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Clay		
1548092	NK01	8/19/2017 0:00	08N	431364	7046522		1210	Auger	90	C	Pronounced Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548093	NK01	8/19/2017 0:00	08N	431353	7046544		1205	Auger	100	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548094	NK01	8/19/2017 0:00	08N	431342	7046567		1201	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548095	NK01	8/19/2017 0:00	08N	431332	7046587		1195	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548096	NK01	8/19/2017 0:00	08N	431319	7046613		1190	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548097	NK01	8/19/2017 0:00	08N	431310	7046633		1182	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548098	NK01	8/19/2017 0:00	08N	431297	7046656		1177	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss > 30cm	Damp	Excellent	Silt		
1548099	NK01	8/19/2017 0:00	08N	431288	7046678		1172	Auger	110	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Clay		
1548100	NK01	8/19/2017 0:00	08N	431288	7046678		1172	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Clay		
1548101	NK01	8/19/2017 0:00	08N	431277	7046702		1166	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548102	NK01	8/19/2017 0:00	08N	431266	7046722		1163	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Clay		
1548103	NK01	8/19/2017 0:00	08N	431355	7046769		1163	Auger	100	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Clay		
1548104	NK01	8/19/2017 0:00	08N	431366	7046744		1166	Auger	110	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548105	NK01	8/19/2017 0:00	08N	431376	7046724		1169	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548106	NK01	8/19/2017 0:00	08N	431387	7046701		1173	Auger	110	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548107	NK01	8/19/2017 0:00	08N	431398	7046680		1176	Auger	100	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548108	NK01	8/19/2017 0:00	08N	431410	7046655		1180	Auger	90	B	Flat	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548109	NK01	8/19/2017 0:00	08N	431419	7046634		1183	Auger	110	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Clay		
1548110	NK01	8/19/2017 0:00	08N	431432	7046612		1187	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Clay		
1548111	NK01	8/19/2017 0:00	08N	431441	7046589		1192	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548112	NK01	8/19/2017 0:00	08N	431454	7046565		1198	Auger	100	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548113	NK01	8/19/2017 0:00	08N	431464	7046544		1201	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Clay		
1548114	NK01	8/19/2017 0:00	08N	431475	7046521		1207	Auger	100	B	Subtle Slope	Chocolate Brown	Alders	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548115	NK01	8/19/2017 0:00	08N	431487	7046499		1212	Auger	110	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss > 30cm	Damp	Excellent	Clay		
1548116	NK01	8/19/2017 0:00	08N	431498	7046476		1215	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Clay		
1548117	NK01	8/19/2017 0:00	08N	431509	7046454		1219	Auger	100	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss > 30cm	Damp	Excellent	Clay		
1548118	NK01	8/19/2017 0:00	08N	431520	7046431		1223	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548119	NK01	8/19/2017 0:00	08N	431530	7046409		1226	Auger	110	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548120	NK01	8/20/2017 0:00	08N	427540	7045015		1246	Mattock	60	B	Flat	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Clay		

sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1548121	NK01	8/20/2017 0:00	08N	427550	7044993		1245	Mattock	60	B	Flat	Chocolate Brown	No Tree Cover	Grass Cover	Damp	Good	Clay		
1548122	NK01	8/20/2017 0:00	08N	427562	7044971		1244	Mattock	60	B	Flat	Chocolate Brown	No Tree Cover	Grass Cover	Damp	Good	Clay		
1548123	NK01	8/20/2017 0:00	08N	427574	7044948		1244	Mattock	60	B	Flat	Chocolate Brown	No Tree Cover	Reindeer Moss	Damp	Good	Clay		
1548124	NK01	8/20/2017 0:00	08N	427584	7044926		1243	Mattock	60	B	Flat	Chocolate Brown	Subalpine Fir	Reindeer Moss	Dry	Good	Clay		
1548125	NK01	8/20/2017 0:00	08N	427584	7044926		1243	Mattock	60	B	Flat	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548126	NK01	8/20/2017 0:00	08N	427596	7044902		1241	Auger	60	B	Flat	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548127	NK01	8/20/2017 0:00	08N	427607	7044878		1240	Auger	60	B	Flat	Grey	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548128	NK01	8/20/2017 0:00	08N	427617	7044858		1238	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548129	NK01	8/20/2017 0:00	08N	427626	7044836		1236	Mattock	60	B	Flat	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548130	NK01	8/20/2017 0:00	08N	427640	7044814		1234	Mattock	60	B	Flat	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548131	NK01	8/20/2017 0:00	08N	427650	7044792		1232	Mattock	60	B	Flat	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548132	NK01	8/20/2017 0:00	08N	427662	7044769		1226	Mattock	60	B	Flat	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Clay		
1548133	NK01	8/20/2017 0:00	08N	427671	7044747		1223	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548134	NK01	8/20/2017 0:00	08N	427682	7044723		1219	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Clay		
1548135	NK01	8/20/2017 0:00	08N	427693	7044702		1213	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Clay		
1548136	NK01	8/20/2017 0:00	08N	427705	7044678		1206	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Bare Soil	Damp	Good	Clay		
1548137	NK01	8/20/2017 0:00	08N	427714	7044657		1201	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548138	NK01	8/20/2017 0:00	08N	427804	7044700		1204	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548139	NK01	8/20/2017 0:00	08N	427794	7044723		1209	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548140	NK01	8/20/2017 0:00	08N	427783	7044744		1214	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548142	NK01	8/20/2017 0:00	08N	427772	7044769		1221	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548143	NK01	8/20/2017 0:00	08N	427761	7044791		1226	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548144	NK01	8/20/2017 0:00	08N	427750	7044813		1231	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548145	NK01	8/20/2017 0:00	08N	427740	7044835		1233	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548146	NK01	8/20/2017 0:00	08N	427728	7044857		1236	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548147	NK01	8/20/2017 0:00	08N	427716	7044879		1237	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548148	NK01	8/20/2017 0:00	08N	427705	7044902		1239	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548149	NK01	8/20/2017 0:00	08N	427694	7044926		1241	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Clay		
1548150	NK01	8/20/2017 0:00	08N	427694	7044926		1241	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548151	NK01	8/20/2017 0:00	08N	427680	7044951		1241	Mattock	60	B	Flat	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548152	NK01	8/20/2017 0:00	08N	427674	7044968		1243	Mattock	60	B	Subtle Slope	Reddish Yellow	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548153	NK01	8/20/2017 0:00	08N	427661	7044996		1242	Mattock	60	B	Flat	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548154	NK01	8/20/2017 0:00	08N	427652	7045014		1243	Mattock	60	B	Flat	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Clay		
1548155	NK01	8/20/2017 0:00	08N	427641	7045038		1242	Mattock	60	B	Flat	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548156	NK01	8/20/2017 0:00	08N	427629	7045061		1242	Mattock	60	B	Flat	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548251	CG01	8/16/2017 0:00	08N	433734	7047373		1157	Auger	60	C	Subtle Slope	Chocolate Brown	Balsam Fir	Thin Moss Cover	Damp	Good	Sand		
1548252	CG01	8/16/2017 0:00	08N	433724	7047394		1158	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548253	CG01	8/16/2017 0:00	08N	433714	7047415		1155	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1548254	CG01	8/16/2017 0:00	08N	433699	7047439		1155	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Partially Frozen	
1548255	CG01	8/16/2017 0:00	08N	433689	7047458		1153	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548256	CG01	8/16/2017 0:00	08N	433683	7047484		1150	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548257	CG01	8/16/2017 0:00	08N	433670	7047506		1148	Auger	50	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548258	CG01	8/16/2017 0:00	08N	433660	7047528		1145	Auger	50	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Wet	Good	Sand		
1548259	CG01	8/16/2017 0:00	08N	433647	7047550		1142	Auger	50	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand		
1548260	CG01	8/16/2017 0:00	08N	433633	7047571		1140	Auger	50	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548261	CG01	8/16/2017 0:00	08N	433626	7047593		1136	Auger	50	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	
1548262	CG01	8/16/2017 0:00	08N	433613	7047617		1132	Auger	50	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548263	CG01	8/16/2017 0:00	08N	433604	7047640		1126	Auger	50	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548264	CG01	8/16/2017 0:00	08N	433590	7047662		1123	Auger	50	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548265	CG01	8/16/2017 0:00	08N	433581	7047685		1120	Auger	50	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548266	CG01	8/16/2017 0:00	08N	433566	7047707		1115	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548267	CG01	8/16/2017 0:00	08N	433559	7047728		1109	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548268	CG01	8/16/2017 0:00	08N	433547	7047753		1106	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548269	CG01	8/16/2017 0:00	08N	433534	7047774		1103	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Wet	Good	Sand		
1548270	CG01	8/16/2017 0:00	08N	433525	7047798		1099	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548271	CG01	8/16/2017 0:00	08N	433516	7047818		1105	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548272	CG01	8/16/2017 0:00	08N	433501	7047841		1094	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548273	CG01	8/16/2017 0:00	08N	433491	7047864		1091	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548274	CG01	8/16/2017 0:00	08N	433480	7047887		1089	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Partially Frozen	
1548275	CG01	8/16/2017 0:00	08N	433480	7047887	1548274	1089	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Partially Frozen	
1548276	CG01	8/16/2017 0:00	08N	433467	7047909		1090	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548277	CG01	8/16/2017 0:00	08N	433456	7047931		1086	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	
1548278	CG01	8/16/2017 0:00	08N	433446	7047957		1084	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548279	CG01	8/16/2017 0:00	08N	433437	7047976		1081	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Bright Orange Rust	
1548280	CG01	8/16/2017 0:00	08N	433428	7047998		1079	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548281	CG01	8/16/2017 0:00	08N	433411	7048021		1076	Auger	50	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548282	CG01	8/16/2017 0:00	08N	433398	7048044		1074	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548283	CG01	8/16/2017 0:00	08N	433387	7048067		1069	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548284	CG01	8/16/2017 0:00	08N	433382	7048089		1064	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548301	SB02	8/16/2017 0:00	08N	433193	7047107		1199	Auger	80	B	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1548302	SB02	8/16/2017 0:00	08N	433185	7047130		1203	Auger	80	C	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Rusty Rock Chip	Rocky Sample
1548303	SB02	8/16/2017 0:00	08N	433175	7047153		1203	Auger	100	C	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Rusty Rock Chip	Quartz Chips
1548304	SB02	8/16/2017 0:00	08N	433160	7047176		1204	Auger	60	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Dull Red Rust	Fine
1548305	SB02	8/16/2017 0:00	08N	433152	7047197		1203	Auger	70	C	Subtle Slope	Reddish Yellow	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Quartz Chips	Rocky Sample
1548306	SB02	8/16/2017 0:00	08N	433141	7047221		1202	Auger	50	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	Rocky Terrain
1548307	SB02	8/16/2017 0:00	08N	433130	7047243		1199	Auger	60	C	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Rusty Rock Chip	Quartz Chips
1548308	SB02	8/16/2017 0:00	08N	433119	7047265		1197	Auger	40	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Rocky Terrain	Fine
1548309	SB02	8/16/2017 0:00	08N	433107	7047288		1195	Auger	60	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Dull Red Rust	Rocky Terrain
1548310	SB02	8/16/2017 0:00	08N	433095	7047309		1192	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Dull Red Rust	Fine
1548311	SB02	8/16/2017 0:00	08N	433085	7047333		1187	Auger	50	B	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Rocky Terrain
1548312	SB02	8/16/2017 0:00	08N	433073	7047355		1181	Auger	60	C	Pronounced Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Fine
1548313	SB02	8/16/2017 0:00	08N	433064	7047381		1177	Auger	80	C	Pronounced Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Dull Red Rust	Rocky Sample
1548314	SB02	8/16/2017 0:00	08N	433053	7047399		1175	Auger	70	B	Pronounced Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1548315	SB02	8/16/2017 0:00	08N	433042	7047423		1172	Auger	70	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Quartz Chips
1548316	SB02	8/16/2017 0:00	08N	433032	7047445		1169	Auger	90	C	Pronounced Slope	Pale Greenish	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Dull Red Rust	Fine

sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1548317	SB02	8/16/2017 0:00	08N	433020	7047468		1164	Auger	70	C	Pronounced Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Rusty Rock Chip	Rocky Terrain
1548318	SB02	8/16/2017 0:00	08N	433009	7047489		1160	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Wet	Good	Silt	Dull Red Rust	Wet Soil
1548319	SB02	8/16/2017 0:00	08N	432999	7047513		1156	Auger	70	C	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1548320	SB02	8/16/2017 0:00	08N	432988	7047535		1152	Auger	80	C	Pronounced Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Rusty Rock Chip	Rocky Sample
1548321	SB02	8/16/2017 0:00	08N	432975	7047557		1147	Auger	60	C	Pronounced Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rocky Sample	Rocky Terrain
1548322	SB02	8/16/2017 0:00	08N	432965	7047580		1142	Auger	60	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Sample	Rocky Terrain
1548323	SB02	8/16/2017 0:00	08N	432954	7047603		1136	Auger	70	B	Pronounced Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1548324	SB02	8/16/2017 0:00	08N	432943	7047625		1128	Auger	80	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Fine	Dull Red Rust
1548325	SB02	8/16/2017 0:00	08N	432943	7047625	1548324	1128	Auger	80	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Fine	Dull Red Rust
1548326	SB02	8/16/2017 0:00	08N	432933	7047648		1120	Auger	40	B	Pronounced Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Rocky Terrain	Rocky Sample
1548327	SB02	8/16/2017 0:00	08N	432920	7047669		1114	Auger	80	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Wet	Good	Silt	Wet Soil	
1548328	SB02	8/16/2017 0:00	08N	432909	7047693		1109	Auger	60	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	Rocky Sample
1548329	SB02	8/16/2017 0:00	08N	432898	7047714		1103	Auger	60	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Rocky Sample	Rocky Terrain
1548330	SB02	8/16/2017 0:00	08N	432887	7047737		1096	Auger	80	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Rocky Sample	Rocky Terrain
1548331	SB02	8/16/2017 0:00	08N	432878	7047760		1091	Auger	70	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Thin Moss Cover	Damp	Good	Silt	Partially Frozen	Rocky Terrain
1548332	SB02	8/16/2017 0:00	08N	432864	7047781		1086	Auger	70	C	Pronounced Slope	Reddish Brown	Mixed Coniferous	Thin Moss Cover	Damp	Excellent	Sand	Rusty Rock Chip	Quartz Chips
1548333	SB02	8/16/2017 0:00	08N	432852	7047803		1080	Auger	70	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Rusty Rock Chip	Rocky Sample
1548334	SB02	8/16/2017 0:00	08N	432844	7047827		1076	Auger	80	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Thin Moss Cover	Damp	Excellent	Sand	Bright Orange Rust	Rusty Rock Chip
1548367	SB02	8/18/2017 0:00	08N	433381	7048312		988	Auger	80	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Fine	
1548368	SB02	8/18/2017 0:00	08N	433374	7048332		993	Auger	80	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Rusty Rock Chip	Rocky Sample
1548369	SB02	8/18/2017 0:00	08N	433362	7048355		992	Auger	80	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Sample	Rocky Terrain
1548370	SB02	8/18/2017 0:00	08N	433351	7048378		992	Auger	70	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Rocky Terrain
1548371	SB02	8/18/2017 0:00	08N	433341	7048400		989	Auger	80	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Rusty Rock Chip	Quartz Chips
1548372	SB02	8/18/2017 0:00	08N	433329	7048424		988	Auger	80	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Rocky Terrain
1548373	SB02	8/18/2017 0:00	08N	433318	7048445		986	Auger	80	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	
1548374	SB02	8/18/2017 0:00	08N	433307	7048469		981	Auger	90	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Dull Red Rust
1548375	SB02	8/18/2017 0:00	08N	433307	7048469	1548374	981	Auger	90	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Dull Red Rust
1548376	SB02	8/18/2017 0:00	08N	433296	7048490		980	Auger	80	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Partially Frozen
1548377	SB02	8/18/2017 0:00	08N	433285	7048512		976	Auger	100	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Wet	Good	Silt	Dull Red Rust	Partially Frozen
1548378	SB02	8/18/2017 0:00	08N	433275	7048534		973	Auger	90	C	Subtle Slope	Light Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Partially Frozen
1548379	SB02	8/18/2017 0:00	08N	433264	7048557		968	Auger	100	C	Subtle Slope	Light Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Partially Frozen
1548380	SB02	8/18/2017 0:00	08N	433252	7048580		965	Auger	90	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rocky Sample
1548381	SB02	8/18/2017 0:00	08N	433241	7048602		961	Auger	80	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	
1548382	SB02	8/18/2017 0:00	08N	433230	7048624		956	Auger	60	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Sand	Rusty Rock Chip	Frozen
1548383	SB02	8/18/2017 0:00	08N	433219	7048648		952	Auger	70	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Quartz Chips	Rusty Rock Chip
1548384	SB02	8/18/2017 0:00	08N	433207	7048669		948	Auger	80	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Frozen	Rocky Sample
1548385	SB02	8/18/2017 0:00	08N	433197	7048693		940	Auger	60	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	Partially Frozen
1548386	SB02	8/18/2017 0:00	08N	433187	7048716		933	Auger	60	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Partially Frozen	Rocky Terrain
1548387	SB02	8/18/2017 0:00	08N	433174	7048737		930	Auger	60	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Frozen
1548388	SB02	8/18/2017 0:00	08N	433165	7048760		926	Auger	80	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Partially Frozen	Rusty Rock Chip
1548389	SB02	8/18/2017 0:00	08N	433154	7048783		922	Auger	80	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Rusty Rock Chip	Partially Frozen
1548390	SB02	8/18/2017 0:00	08N	433145	7048806		919	Auger	80	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Partially Frozen
1548391	SB02	8/18/2017 0:00	08N	433132	7048827		916	Auger	70	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Quartz Chips
1548392	SB02	8/18/2017 0:00	08N	433119	7048849		914	Auger	100	C	Subtle Slope	Reddish Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rusty Rock Chip
1548393	SB02	8/18/2017 0:00	08N	433108	7048871		910	Auger	80	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Partially Frozen
1548394	SB02	8/18/2017 0:00	08N	433098	7048895		908	Auger	80	C	Subtle Slope	Reddish Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1548395	SB02	8/18/2017 0:00	08N	433086	7048917		904	Auger	80	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	
1548396	SB02	8/18/2017 0:00	08N	433077	7048939		903	Auger	80	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Sandy
1548397	SB02	8/18/2017 0:00	08N	433067	7048964		898	Auger	80	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	
1548398	SB02	8/18/2017 0:00	08N	433055	7048984		895	Auger	70	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	
1548399	SB02	8/18/2017 0:00	08N	433044	7049008		891	Auger	60	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Fine	
1548400	SB02	8/18/2017 0:00	08N	433044	7049008	1548399	891	Auger	60	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Fine	
1548401	SB02	8/19/2017 0:00	08N	432385	7046936		1134	Auger	60	B	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Rocky Terrain
1548402	SB02	8/18/2017 0:00	08N	433033	7049030		886	Auger	70	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Partially Frozen
1548403	SB02	8/19/2017 0:00	08N	432374	7046959		1162	Auger	80	B	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Fine
1548404	SB02	8/19/2017 0:00	08N	432363	7046982		1167	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Rocky Sample
1548405	SB02	8/19/2017 0:00	08N	432353	7047003		1171	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	Rocky Terrain
1548406	SB02	8/19/2017 0:00	08N	432341	7047027		1172	Auger	80	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Fine	Wet Soil
1548407	SB02	8/19/2017 0:00	08N	432330	7047049		1172	Auger	60	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Frozen	Rocky Sample
1548408	SB02	8/19/2017 0:00	08N	432318	7047071		1171	Auger	70	B	Subtle Slope	Light Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Partially Frozen
1548409	SB02	8/19/2017 0:00	08N	432308	7047094		1167	Auger	70	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Partially Frozen	Rocky Terrain
1548410	SB02	8/19/2017 0:00	08N	432297	7047116		1164	Auger	60	C	Pronounced Slope	Light Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	Partially Frozen
1548411	SB02	8/19/2017 0:00	08N	432286	7047139		1160	Auger	60	C	Subtle Slope	Light Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	Partially Frozen
1548412	SB02	8/19/2017 0:00	08N	432275	7047164		1170	Auger	70	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Wet	Poor	Silt	Wet Soil	Rocky Terrain
1548413	SB02	8/19/2017 0:00	08N	432264	7047185		1153	Auger	50	B	Pronounced Slope	Light Brown	Mixed Coniferous	Reindeer Moss	Damp	Poor	Sand	Rocky Sample	Rocky Terrain
1548414	SB02	8/19/2017 0:00	08N	432254	7047206		1147	Auger	70	B	Pronounced Slope	Light Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	Rocky Sample
1548415	SB02	8/19/2017 0:00	08N	432244	7047231		1142	Auger	60	B	Pronounced Slope	Reddish Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Partially Frozen
1548416	SB02	8/19/2017 0:00	08N	432232	7047253		1139	Auger	40	B	Pronounced Slope	Reddish Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Rocky Sample
1548417	SB02	8/19/2017 0:00	08N	432221	7047276		1132	Auger	60	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Rocky Terrain
1548418	SB02	8/19/2017 0:00	08N	432210	7047296		1132	Auger	60	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Rusty Rock Chip	Frozen
1548419	SB02	8/19/2017 0:00	08N	432118	7047251		1145	Auger	30	B	Pronounced Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1548420	SB02	8/19/2017 0:00	08N	432131	7047231		1153	Auger	60	B	Pronounced Slope	Reddish Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Fine
1548421	SB02	8/19/2017 0:00	08N	432142	7047207		1155	Auger	80	C	Pronounced Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Dull Red Rust	Quartz Chips
1548422	SB02	8/19/2017 0:00	08N	432152	7047185		1161	Auger	90	C	Subtle Slope	Reddish Orange	Mixed Coniferous	Frost Boil	Damp	Good	Silt	Rusty Rock Chip	Quartz Chips
1548423	SB02	8/19/2017 0:00	08N	432163	7047160		1188	Auger	60	B	Pronounced Slope	Reddish Orange	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Quartz Chips	Rocky Sample
1548424	SB02	8/19/2017 0:00	08N	432173	7047139		1166	Auger	60	C	Subtle Slope	Reddish Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	Rocky Terrain
1548425	SB02	8/19/2017 0:00	08N	432173	7047139	1548424	1166	Auger	60	C	Subtle Slope	Reddish Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	Rocky Terrain
1548426	SB02	8/20/2017 0:00	08N	428466	7046084		1195	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Rusty Rock Chip	Sandy
1548427	SB02	8/20/2017 0:00	08N	428476	7046062		1175	Auger	50	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Sandy
1548428	SB02	8/20/2017 0:00	08N	428487	7046039		1180	Auger	80	B	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Rusty Rock Chip	Quartz Chips
1548429	SB02	8/20/2017 0:00	08N	428498	7046016		1184	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Sandy
1548430	SB02	8/20/2017 0:00	08N	428511	7045994		1188	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Rusty Rock Chip	Rocky Sample
1548431	SB02	8/20/2017 0:00	08N	428520	7045972		1189	Auger	60	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Sandy
1548432	SB02	8/20/2017 0:00	08N	428531	7045950		1192	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Rocky Sample	Rocky Terrain
1548433	SB02	8/20/2017 0:00	08N	428543	7045925		1196	Auger	60	C	Subtle Slope	Pale Greenish	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Quartz Chips	Rusty Rock Chip

sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1548434	SB02	8/20/2017 0:00	08N	428554	7045903		1198	Auger	70	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Sandy
1548435	SB02	8/20/2017 0:00	08N	428564	7045882		1199	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Rocky Sample
1548436	SB02	8/20/2017 0:00	08N	428576	7045860		1200	Auger	60	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Sandy
1548437	SB02	8/20/2017 0:00	08N	428586	7045838		1203	Auger	60	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Sandy
1548438	SB02	8/20/2017 0:00	08N	428597	7045812		1206	Auger	50	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1548439	SB02	8/20/2017 0:00	08N	428608	7045791		1206	Auger	70	B	Subtle Slope	Reddish Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1548440	SB02	8/20/2017 0:00	08N	428621	7045769		1208	Auger	80	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Sandy
1548441	SB02	8/20/2017 0:00	08N	428630	7045747		1210	Auger	80	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Sandy
1548442	SB02	8/20/2017 0:00	08N	428642	7045723		1213	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Sandy
1548443	SB02	8/20/2017 0:00	08N	428463	7045637		1218	Auger	80	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Sandy
1548444	SB02	8/20/2017 0:00	08N	428450	7045662		1216	Auger	70	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Fine
1548445	SB02	8/20/2017 0:00	08N	428441	7045682		1215	Auger	70	B	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Quartz Chips	Sandy
1548446	SB02	8/20/2017 0:00	08N	428428	7045705		1213	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Sandy
1548447	SB02	8/20/2017 0:00	08N	428419	7045727		1210	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Sandy
1548448	SB02	8/20/2017 0:00	08N	428406	7045750		1209	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Silt	Quartz Chips	Rusty Rock Chip
1548449	SB02	8/20/2017 0:00	08N	428397	7045772		1206	Auger	110	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Sandy
1548450	SB02	8/20/2017 0:00	08N	428397	7045772	1548449	1206	Auger	110	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Sandy
1548451	SB02	8/19/2017 0:00	08N	432187	7047119		1170	Auger	70	B	Pronounced Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Fine
1548452	SB02	8/19/2017 0:00	08N	432195	7047094		1174	Auger	70	C	Subtle Slope	Light Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	Rocky Terrain
1548453	SB02	8/19/2017 0:00	08N	432207	7047073		1176	Auger	50	B	Subtle Slope	Reddish Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Terrain	Wet Soil
1548454	SB02	8/19/2017 0:00	08N	432216	7047050		1179	Auger	40	B	Subtle Slope	Reddish Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Rocky Terrain
1548455	SB02	8/19/2017 0:00	08N	432230	7047029		1183	Auger	60	B	Subtle Slope	Reddish Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Rocky Terrain
1548456	SB02	8/19/2017 0:00	08N	432241	7047002		1186	Auger	70	B	Subtle Slope	Light Brown	Mixed Coniferous	Frost Boil	Damp	Good	Sand	Rusty Rock Chip	Rocky Sample
1548457	SB02	8/19/2017 0:00	08N	432251	7046983		1189	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Partially Frozen	Rusty Rock Chip
1548458	SB02	8/19/2017 0:00	08N	432262	7046961		1191	Auger	70	B	Subtle Slope	Reddish Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rusty Rock Chip
1548459	SB02	8/19/2017 0:00	08N	432271	7046938		1196	Auger	70	B	Pronounced Slope	Reddish Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1548460	SB02	8/19/2017 0:00	08N	432284	7046915		1199	Auger	80	C	Pronounced Slope	Light Brown	Mixed Coniferous	Thin Moss Cover	Damp	Good	Sand	Rusty Rock Chip	Rocky Sample
1548461	SB02	8/19/2017 0:00	08N	432295	7046893		1205	Auger	80	B	Subtle Slope	Reddish Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1548462	SB02	8/20/2017 0:00	08N	428386	7045795		1205	Auger	80	C	Subtle Slope	Reddish Yellow	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Bright Orange Rust	Quartz Chips
1548463	SB02	8/20/2017 0:00	08N	428373	7045817		1201	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Bright Orange Rust	Quartz Chips
1548464	SB02	8/20/2017 0:00	08N	428363	7045840		1199	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Bright Orange Rust	Quartz Chips
1548465	SB02	8/20/2017 0:00	08N	428353	7045863		1197	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Bright Orange Rust	Quartz Chips
1548466	SB02	8/20/2017 0:00	08N	428343	7045885		1192	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Bright Orange Rust	Dull Red Rust
1548467	SB02	8/20/2017 0:00	08N	428330	7045908		1189	Auger	80	C	Subtle Slope	Reddish Orange	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Quartz Chips	Rusty Rock Chip
1548468	SB02	8/20/2017 0:00	08N	428318	7045929		1185	Auger	80	C	Subtle Slope	Light Brown	Mixed Coniferous	Thin Moss Cover	Damp	Good	Sand	Quartz Chips	Rusty Rock Chip
1548469	SB02	8/20/2017 0:00	08N	428308	7045952		1181	Auger	80	C	Subtle Slope	Light Brown	Mixed Coniferous	Thin Moss Cover	Damp	Good	Sand	Rusty Rock Chip	Quartz Chips
1548470	SB02	8/20/2017 0:00	08N	428298	7045974		1177	Auger	80	C	Pronounced Slope	Light Brown	Mixed Coniferous	Thin Moss Cover	Damp	Good	Sand	Rocky Sample	Rusty Rock Chip
1548471	SB02	8/20/2017 0:00	08N	428287	7045997		1173	Auger	90	C	Subtle Slope	Light Brown	Mixed Coniferous	Thin Moss Cover	Damp	Good	Sand	Rusty Rock Chip	Rocky Sample
1548501	TL01	8/18/2017 0:00	08N	433308	7049835		775	Auger	50	C	Steep	Chocolate Brown	Mixed Coniferous	Thin Moss Cover	Dry	Good	Sand	Fine	Rocky Sample
1548502	TL01	8/18/2017 0:00	08N	433320	7049812		770	Auger	50	C	Steep	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Silt	Fine	Rocky Sample
1548503	TL01	8/18/2017 0:00	08N	433330	7049792		764	Auger	60	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Partially Frozen	Organic 10%
1548504	TL01	8/18/2017 0:00	08N	433343	7049769		765	Auger	80	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Partially Frozen	Rocky Sample
1548505	TL01	8/18/2017 0:00	08N	433353	7049746		773	Auger	110	C	Pronounced Slope	Chocolate Brown	White Spruce	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1548506	TL01	8/18/2017 0:00	08N	433363	7049723		780	Auger	70	C	Pronounced Slope	Bluish Grey	White Spruce	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1548507	TL01	8/18/2017 0:00	08N	433375	7049700		788	Auger	70	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Silt	Fine	Rocky Sample
1548508	TL01	8/18/2017 0:00	08N	433386	7049675		784	Auger	70	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Partially Frozen	Rocky Sample
1548509	TL01	8/18/2017 0:00	08N	433397	7049656		783	Auger	50	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Silt	Rocky Sample	Rocky Terrain
1548510	TL01	8/18/2017 0:00	08N	433408	7049632		783	Auger	60	C	Pronounced Slope	Chocolate Brown	White Spruce	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1548511	TL01	8/18/2017 0:00	08N	433419	7049611		783	Auger	90	C	Pronounced Slope	Chocolate Brown	White Spruce	Reindeer Moss	Damp	Good	Sand	Partially Frozen	Rocky Sample
1548512	TL01	8/18/2017 0:00	08N	433429	7049588		783	Auger	50	C	Pronounced Slope	Chocolate Brown	White Spruce	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1548513	TL01	8/18/2017 0:00	08N	433438	7049567		786	Auger	80	C	Pronounced Slope	Chocolate Brown	White Spruce	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1548514	TL01	8/18/2017 0:00	08N	433454	7049545		787	Auger	60	C	Pronounced Slope	Chocolate Brown	White Spruce	Thin Moss Cover	Dry	Good	Sand	Fine	Rocky Sample
1548516	TL01	8/19/2017 0:00	08N	430819	7045811		1211	Auger	90	C	Flat	Chocolate Brown	Mixed Coniferous	Thin Moss Cover	Dry	Good	Sand	Fine	Sandy
1548517	TL01	8/19/2017 0:00	08N	430810	7045833		1217	Auger	110	C	Flat	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548518	TL01	8/19/2017 0:00	08N	430799	7045854		1220	Auger	100	C	Flat	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548519	TL01	8/19/2017 0:00	08N	430789	7045880		1222	Auger	90	C	Flat	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548520	TL01	8/19/2017 0:00	08N	430777	7045902		1223	Auger	80	C	Flat	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548521	TL01	8/19/2017 0:00	08N	430766	7045923		1226	Auger	80	C	Flat	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548522	TL01	8/19/2017 0:00	08N	430755	7045946		1225	Auger	90	C	Flat	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548523	TL01	8/19/2017 0:00	08N	430744	7045969		1221	Auger	80	C	Flat	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548526	TL01	8/19/2017 0:00	08N	430733	7045992		1218	Auger	90	C	Flat	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548527	TL01	8/19/2017 0:00	08N	430722	7046015		1216	Auger	80	C	Flat	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548528	TL01	8/19/2017 0:00	08N	430712	7046037		1212	Auger	80	C	Flat	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548529	TL01	8/19/2017 0:00	08N	430700	7046059		1209	Auger	100	C	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548530	TL01	8/19/2017 0:00	08N	430689	7046082		1205	Auger	80	C	Flat	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548531	TL01	8/19/2017 0:00	08N	430679	7046103		1201	Auger	60	C	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548532	TL01	8/19/2017 0:00	08N	430668	7046126		1195	Auger	110	C	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548533	TL01	8/19/2017 0:00	08N	430657	7046148		1190	Auger	90	C	Flat	Chocolate Brown	Mixed Coniferous	Leaf Cover	Dry	Good	Sand	Fine	Rocky Sample
1548534	TL01	8/19/2017 0:00	08N	430647	7046173		1185	Auger	80	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1548535	TL01	8/19/2017 0:00	08N	430636	7046193		1182	Auger	60	C	Flat	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548536	TL01	8/19/2017 0:00	08N	430625	7046216		1177	Auger	70	C	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548537	TL01	8/19/2017 0:00	08N	430613	7046238		1173	Auger	60	C	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548538	TL01	8/19/2017 0:00	08N	430602	7046262		1166	Auger	40	C	Subtle Slope	Chocolate Brown	Mixed Coniferous	Thin Moss Cover	Dry	Good	Sand	Rocky Sample	Rocky Terrain
1548539	TL01	8/19/2017 0:00	08N	430591	7046283		1160	Auger	60	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Fine	Sandy
1548540	TL01	8/19/2017 0:00	08N	430578	7046306		1153	Auger	60	C	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Rocky Sample	Rocky Terrain
1548541	TL01	8/19/2017 0:00	08N	430568	7046329		1147	Auger	60	C	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Silt	Rocky Sample	Rocky Terrain
1548542	TL01	8/19/2017 0:00	08N	430558	7046352		1140	Auger	70	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Silt	Rocky Sample	Rocky Terrain
1548543	TL01	8/19/2017 0:00	08N	430546	7046373		1134	Auger	50	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Silt	Rocky Sample	Rocky Terrain
1548544	TL01	8/19/2017 0:00	08N	430637	7046416		1137	Auger	90	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548545	TL01	8/19/2017 0:00	08N	430648	7046395		1142	Auger	50	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1548546	TL01	8/19/2017 0:00	08N	430661	7046374		1147	Auger	60	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Rocky Sample	Rocky Terrain
1548547	TL01	8/19/2017 0:00	08N	430670	7046349		1152	Auger	80	C	Pronounced Slope	Chocolate Brown	Dwarf Birch	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548548	TL01	8/19/2017 0:00	08N	430682	7046328		1158	Auger	60	C	Pronounced Slope	Chocolate Brown	Dwarf Birch	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548549	TL01	8/19/2017 0:00	08N	430693	7046306		1164	Auger	50	C	Pronounced Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Dry	Good	Sand	Rusty Rock Chip	Quartz Chips
1548550	TL01	8/19/2017 0:00	08N	430693	7046306	1548549	1164	Auger	50	C	Pronounced Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Dry	Good	Sand	Rusty Rock Chip	Quartz Chips

sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1551251	DB02	8/16/2017 0:00	08N	433122	7047712		1147	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Silt	Rusty Rock Chip	
1551252	DB02	8/16/2017 0:00	08N	433111	7047734		1144	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Wet	Good	Silt	Wet Soil	
1551253	DB02	8/16/2017 0:00	08N	433101	7047758		1144	Auger	50	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Silt		
1551254	DB02	8/16/2017 0:00	08N	433090	7047779		1143	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Wet	Good	Silt		
1551255	DB02	8/16/2017 0:00	08N	433077	7047802		1128	Auger	80	C	Subtle Slope	Light Brown	Pine	Thin Moss Cover	Damp	Excellent	Silt		
1551256	DB02	8/16/2017 0:00	08N	433067	7047824		1123	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Fine	
1551257	DB02	8/16/2017 0:00	08N	433057	7047848		1143	Auger	40	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Dry	Good	Sand		
1551258	DB02	8/16/2017 0:00	08N	433044	7047870		1103	Auger	50	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1551259	DB02	8/16/2017 0:00	08N	433035	7047892		1108	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1551260	DB02	8/16/2017 0:00	08N	433023	7047913		1109	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1551263	DB02	8/16/2017 0:00	08N	433374	7047195		1229	Auger	110	C	Flat	Light Grey	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	
1551264	DB02	8/16/2017 0:00	08N	433364	7047217		1221	Auger	80	C	Flat	Light Grey	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Silt	Rocky Sample	
1551265	DB02	8/16/2017 0:00	08N	433352	7047240		1201	Auger	80	C	Subtle Slope	Light Grey	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Silt	Fine	
1551266	DB02	8/16/2017 0:00	08N	433342	7047262		1212	Auger	60	C	Subtle Slope	Light Grey	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Silt	Fine	
1551267	DB02	8/16/2017 0:00	08N	433330	7047285		1206	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Silt	Fine	
1551268	DB02	8/16/2017 0:00	08N	433320	7047308		1194	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1551269	DB02	8/16/2017 0:00	08N	433309	7047329		1226	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Fine	
1551270	DB02	8/16/2017 0:00	08N	433297	7047352		1202	Auger	50	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	
1551271	DB02	8/16/2017 0:00	08N	433288	7047375		1182	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Fine	
1551272	DB02	8/16/2017 0:00	08N	433275	7047397		1199	Auger	50	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Fine	Quartz Chips
1551273	DB02	8/16/2017 0:00	08N	433266	7047418		1190	Auger	50	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	
1551274	DB02	8/16/2017 0:00	08N	433254	7047442		1186	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Fine	
1551275	DB02	8/16/2017 0:00	08N	433254	7047442	1551274	1180	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Fine	
1551276	DB02	8/16/2017 0:00	08N	433243	7047465		1181	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Fine	
1551277	DB02	8/16/2017 0:00	08N	433232	7047488		1174	Auger	50	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1551278	DB02	8/16/2017 0:00	08N	433221	7047509		1179	Auger	50	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	
1551279	DB02	8/16/2017 0:00	08N	433210	7047532		1172	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Wet	Good	Clay		
1551280	DB02	8/16/2017 0:00	08N	433199	7047554		1150	Auger	50	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Wet	Good	Clay		
1551281	DB02	8/16/2017 0:00	08N	433189	7047576		1168	Auger	100	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Wet	Excellent	Silt	Wet Soil	
1551282	DB02	8/16/2017 0:00	08N	433176	7047599		1157	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	
1551283	DB02	8/16/2017 0:00	08N	433167	7047622		1149	Auger	90	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Fine	
1551284	DB02	8/16/2017 0:00	08N	433155	7047644		1148	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt		
1551285	DB02	8/16/2017 0:00	08N	433144	7047667		1155	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Silt	Wet Soil	
1551286	DB02	8/16/2017 0:00	08N	433134	7047690		1145	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt		

Appendix B: Soil Sample Assay Certificates

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

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

Client: **Ryanwood Exploration Inc.**
Box 213
Dawson City Yukon Y0B 1G0 Canada

Submitted By: Shawn Ryan
Receiving Lab: Canada-Whitehorse
Received: August 23, 2017
Report Date: September 06, 2017
Page: 1 of 8

CERTIFICATE OF ANALYSIS WHI17000672.1

CLIENT JOB INFORMATION

Project: MOO
Shipment ID: MOO-20170822-001-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.

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

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

CC: Isaac Fage
Jodie Gibson

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Production Manager

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

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Ryanwood Exploration Inc.**
Box 213
Dawson City Yukon Y0B 1G0 Canada

Project: MOO
Report Date: September 06, 2017

CERTIFICATE OF ANALYSIS WHI17000672.1

		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
1546188	Soil		0.7	15.1	7.6	49	<0.1	17.9	7.1	248	1.92	8.0	0.7	5.5	6.0	15	0.1	0.7	0.3	31	0.16	0.084
1546218	Soil		1.1	31.4	10.0	70	<0.1	19.1	7.4	240	2.91	9.4	1.3	1.5	11.5	15	<0.1	0.6	0.4	24	0.09	0.044
1546213	Soil		1.1	37.1	11.2	72	<0.1	27.0	10.8	262	2.88	7.9	1.5	2.5	11.2	16	0.2	0.7	0.4	24	0.14	0.034
1546216	Soil		0.9	20.4	8.5	62	<0.1	22.1	9.3	360	2.26	8.5	0.8	3.0	5.8	14	<0.1	0.6	0.3	34	0.16	0.031
1546187	Soil		0.8	31.2	9.6	49	<0.1	28.1	8.4	226	2.27	16.6	1.2	3.2	7.5	13	<0.1	1.1	0.3	34	0.14	0.037
1546212	Soil		1.2	33.9	10.2	72	<0.1	25.7	8.8	188	2.82	7.6	1.2	2.5	9.9	16	<0.1	0.8	0.3	27	0.16	0.034
1546217	Soil		0.7	11.3	7.8	43	<0.1	14.5	6.6	167	1.77	7.6	0.4	0.9	4.1	14	0.1	0.5	0.3	35	0.17	0.037
1546219	Soil		0.9	19.3	9.0	54	<0.1	23.2	9.0	205	2.25	10.0	0.7	10.1	5.8	15	0.1	0.8	0.2	39	0.16	0.092
1546189	Soil		0.8	20.7	8.8	46	<0.1	20.4	7.7	238	2.08	13.5	0.8	1.5	6.1	16	0.1	1.0	0.2	35	0.18	0.080
1546209	Soil		1.2	27.0	11.4	64	0.1	21.3	11.8	457	2.93	5.8	1.4	<0.5	8.8	21	0.1	0.6	0.5	31	0.22	0.038
1546220	Soil		1.0	22.1	10.8	54	<0.1	24.5	9.6	237	2.55	12.6	0.8	1.2	7.0	18	<0.1	0.9	0.3	45	0.17	0.025
1546214	Soil		0.9	16.9	9.5	63	<0.1	18.6	9.1	484	2.19	7.7	0.8	2.9	3.7	18	0.2	0.4	0.2	41	0.18	0.051
1546186	Soil		0.6	12.9	8.2	44	<0.1	17.8	7.4	235	1.92	8.0	0.8	135.4	5.3	15	<0.1	0.6	0.2	32	0.18	0.042
1546211	Soil		1.1	39.9	11.5	66	<0.1	26.5	8.6	228	2.89	8.3	1.6	2.1	11.7	19	0.1	0.9	0.3	28	0.19	0.043
1546208	Soil		0.9	25.0	9.5	54	<0.1	20.0	9.0	281	2.38	6.7	1.0	2.1	8.5	15	<0.1	0.6	0.3	25	0.13	0.026
1546215	Soil		0.8	23.3	9.5	54	<0.1	23.8	7.8	172	2.39	10.6	1.0	32.8	7.8	15	0.1	0.6	0.2	30	0.15	0.041
1546201	Soil		1.0	20.4	9.5	61	<0.1	25.1	9.5	248	2.47	10.1	1.0	1.5	6.8	16	0.1	0.8	0.2	33	0.17	0.052
1546197	Soil		1.0	24.6	9.8	74	<0.1	30.4	10.9	487	2.63	14.1	1.3	1.0	8.1	23	0.4	1.1	0.3	29	0.26	0.045
1546193	Soil		0.8	20.1	8.5	48	<0.1	20.1	7.1	189	2.04	9.9	0.7	2.6	5.9	15	<0.1	0.7	0.2	33	0.14	0.044
1546190	Soil		0.8	24.2	8.1	52	<0.1	25.8	8.3	305	2.27	11.1	0.8	3.6	6.7	16	<0.1	0.9	0.2	32	0.18	0.036
1546202	Soil		1.0	19.1	9.4	49	<0.1	20.7	9.0	257	2.20	10.1	0.8	1.3	5.9	19	<0.1	0.8	0.2	39	0.22	0.045
1546198	Soil		0.6	11.7	9.8	67	<0.1	18.9	9.2	303	2.13	9.0	0.8	11.4	4.9	22	0.2	0.6	0.2	41	0.30	0.051
1546210	Soil		1.2	21.8	9.7	64	0.1	22.7	9.4	217	2.59	10.7	0.8	2.0	6.7	16	0.1	0.8	0.2	36	0.16	0.044
1546191	Soil		0.7	19.2	8.6	52	<0.1	22.7	7.6	244	2.09	8.4	0.8	2.0	6.5	17	<0.1	0.7	0.2	34	0.16	0.046
1546203	Soil		0.9	25.5	9.3	57	<0.1	23.0	9.2	267	2.46	9.3	1.2	0.7	9.7	17	<0.1	0.6	0.3	27	0.13	0.041
1546196	Soil		0.7	36.5	11.2	75	0.1	50.4	14.9	340	3.29	27.7	1.5	2.7	10.4	29	0.3	1.8	0.3	29	0.55	0.056
1546195	Soil		0.8	17.2	8.7	49	<0.1	18.6	7.9	325	2.20	9.1	0.7	7.9	5.6	18	<0.1	0.8	0.2	40	0.20	0.036
1546192	Soil		0.9	34.2	10.7	65	<0.1	29.7	10.2	199	2.78	9.5	1.4	2.5	11.9	13	<0.1	1.0	0.3	26	0.08	0.029
1546204	Soil		0.7	18.9	9.9	46	<0.1	21.8	8.3	174	2.29	12.1	0.5	4.9	4.9	12	<0.1	0.8	0.2	39	0.11	0.031
1546200	Soil		0.9	23.7	11.1	69	<0.1	24.1	11.8	426	2.68	6.8	1.5	<0.5	10.1	18	0.1	0.6	0.3	22	0.17	0.044

BUREAU VERITAS MINERAL LABORATORIES Canada

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Box 213
Dawson City Yukon Y0B 1G0 Canada

Project: MOO
Report Date: September 06, 2017

CERTIFICATE OF ANALYSIS WHI17000672.1

		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
1546188	Soil		18	17	0.27	184	0.025	2	0.76	0.005	0.06	0.3	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
1546218	Soil		36	21	0.55	154	0.007	2	1.28	0.004	0.05	<0.1	<0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
1546213	Soil		34	18	0.39	293	0.010	1	1.03	0.006	0.06	<0.1	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2
1546216	Soil		21	22	0.40	279	0.025	2	1.14	0.006	0.05	0.2	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
1546187	Soil		20	23	0.30	169	0.028	2	0.98	0.005	0.08	0.3	0.02	4.0	<0.1	<0.05	3	<0.5	<0.2
1546212	Soil		29	20	0.43	237	0.017	2	1.07	0.006	0.06	0.1	0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
1546217	Soil		15	19	0.30	179	0.030	2	0.99	0.005	0.06	0.2	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
1546219	Soil		20	22	0.33	198	0.024	2	1.05	0.004	0.08	0.2	0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
1546189	Soil		19	20	0.30	195	0.029	2	0.89	0.005	0.07	0.4	0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
1546209	Soil		33	22	0.38	383	0.009	2	1.23	0.006	0.10	0.1	0.01	2.1	0.1	<0.05	4	<0.5	<0.2
1546220	Soil		19	27	0.38	257	0.037	2	1.30	0.005	0.10	0.2	0.01	3.5	0.1	<0.05	4	<0.5	<0.2
1546214	Soil		23	22	0.38	298	0.026	2	1.24	0.007	0.06	0.2	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
1546186	Soil		18	20	0.34	192	0.034	1	0.96	0.007	0.07	0.1	0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
1546211	Soil		32	21	0.41	205	0.016	1	1.02	0.008	0.05	0.1	0.02	2.7	<0.1	<0.05	3	<0.5	<0.2
1546208	Soil		30	19	0.35	214	0.011	<1	0.98	0.004	0.06	0.1	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
1546215	Soil		27	21	0.40	205	0.018	1	1.10	0.004	0.05	0.1	0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
1546201	Soil		23	21	0.34	204	0.023	1	0.98	0.005	0.09	0.2	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2
1546197	Soil		34	23	0.33	381	0.011	1	1.08	0.006	0.07	<0.1	0.02	2.6	<0.1	<0.05	3	<0.5	<0.2
1546193	Soil		19	21	0.36	207	0.024	1	1.05	0.005	0.05	0.2	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
1546190	Soil		22	23	0.38	254	0.024	1	1.00	0.006	0.06	0.1	0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
1546202	Soil		16	23	0.36	229	0.038	<1	1.09	0.006	0.09	0.2	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
1546198	Soil		17	23	0.37	300	0.031	2	1.16	0.008	0.09	0.1	0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
1546210	Soil		24	22	0.35	216	0.022	<1	1.11	0.005	0.05	0.1	0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
1546191	Soil		21	21	0.35	209	0.025	1	0.98	0.005	0.06	0.2	0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
1546203	Soil		33	20	0.39	208	0.018	<1	1.04	0.005	0.07	0.2	0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
1546196	Soil		37	32	0.34	377	0.006	1	0.94	0.005	0.06	0.1	0.04	3.5	<0.1	<0.05	3	<0.5	<0.2
1546195	Soil		17	24	0.35	319	0.034	<1	1.06	0.006	0.06	0.2	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
1546192	Soil		36	23	0.40	153	0.013	<1	1.06	0.004	0.05	0.1	0.02	2.5	<0.1	<0.05	3	<0.5	<0.2
1546204	Soil		15	23	0.34	148	0.027	1	1.20	0.004	0.06	0.1	0.02	2.2	<0.1	<0.05	3	<0.5	<0.2
1546200	Soil		39	16	0.28	249	0.008	<1	0.89	0.005	0.07	0.1	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2

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Client: **Ryanwood Exploration Inc.**
Box 213
Dawson City Yukon Y0B 1G0 Canada

Project: MOO
Report Date: September 06, 2017

CERTIFICATE OF ANALYSIS WHI17000672.1

		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
1546199	Soil		0.9	26.7	11.7	71	<0.1	26.3	11.3	269	2.88	7.3	1.7	1.7	11.9	18	<0.1	0.6	0.3	21	0.15	0.037
1546194	Soil		0.6	13.4	7.3	42	<0.1	14.8	5.0	148	1.65	8.5	0.5	67.9	4.0	13	<0.1	0.5	0.1	31	0.14	0.038
1539316	Soil		0.8	17.4	11.9	44	<0.1	15.6	6.1	161	2.46	15.1	0.8	<0.5	6.4	12	<0.1	0.8	0.2	36	0.08	0.067
1539325	Soil		1.0	18.9	13.1	42	<0.1	13.2	5.0	136	2.13	11.4	0.9	2.2	7.1	12	<0.1	0.6	0.3	27	0.05	0.023
1539315	Soil		0.8	28.6	12.6	55	<0.1	17.9	7.8	169	2.39	11.6	1.9	17.1	10.1	11	<0.1	0.8	0.3	29	0.05	0.023
1546205	Soil		0.8	32.1	10.4	55	<0.1	26.8	10.4	228	2.77	8.7	1.5	0.5	10.7	16	<0.1	0.6	0.3	29	0.12	0.030
1539314	Soil		0.7	23.5	14.8	50	<0.1	18.0	6.9	144	2.29	14.2	1.5	3.1	5.2	12	<0.1	0.8	0.5	29	0.05	0.037
1539337	Soil		0.8	25.1	14.6	57	<0.1	18.3	7.6	170	2.51	11.0	1.2	2.4	10.5	14	<0.1	0.8	0.4	30	0.06	0.059
1539334	Soil		1.0	39.0	18.6	67	<0.1	19.7	7.8	160	2.99	11.4	1.8	3.4	15.7	13	<0.1	1.1	0.6	31	0.03	0.025
1546207	Soil		0.9	35.8	11.0	65	<0.1	24.7	8.4	195	2.77	8.8	2.1	3.9	11.5	19	<0.1	1.0	0.4	30	0.21	0.028
1539317	Soil		0.7	33.2	19.1	60	<0.1	18.5	7.9	166	2.67	9.1	2.2	7.6	10.7	15	<0.1	0.7	0.5	22	0.04	0.030
1539336	Soil		1.0	23.0	10.8	50	0.1	18.7	8.0	159	2.32	12.1	1.2	43.2	5.3	9	<0.1	0.9	0.3	47	0.06	0.025
1539335	Soil		0.9	15.1	12.0	55	<0.1	14.4	6.3	146	2.30	10.5	0.7	8.1	6.0	9	<0.1	0.6	0.3	49	0.06	0.023
1546206	Soil		0.6	9.6	8.6	41	<0.1	17.3	9.6	192	1.99	4.8	0.5	1.5	4.5	14	<0.1	0.4	0.2	38	0.17	0.057
1539313	Soil		0.8	19.7	11.1	49	<0.1	17.7	6.7	157	2.30	13.0	1.1	8.8	7.0	11	<0.1	0.9	0.3	35	0.08	0.034
1539318	Soil		0.8	35.4	12.5	54	0.1	19.6	8.3	214	2.40	12.7	1.9	4.7	7.0	12	<0.1	0.9	0.3	48	0.07	0.023
1539324	Soil		1.0	19.4	12.8	46	<0.1	13.0	4.9	128	2.08	12.2	0.9	2.2	7.9	12	<0.1	0.8	0.3	28	0.04	0.022
1539333	Soil		0.9	17.9	12.6	53	0.1	16.1	7.7	252	2.76	13.2	0.8	4.4	6.4	11	<0.1	0.7	0.3	41	0.07	0.068
1539312	Soil		0.8	25.9	13.4	57	<0.1	18.9	7.6	169	2.45	13.1	1.6	5.0	10.4	11	<0.1	0.8	0.3	34	0.06	0.018
1539331	Soil		1.0	27.9	15.4	59	0.1	18.9	6.7	135	2.67	17.0	1.4	10.6	11.2	12	<0.1	1.1	0.4	29	0.04	0.031
1539319	Soil		1.0	24.8	15.8	54	<0.1	16.2	6.7	153	2.41	16.0	1.2	3.8	8.3	13	<0.1	0.8	0.3	34	0.05	0.027
1539323	Soil		0.8	18.5	12.1	53	0.1	21.2	9.0	264	2.44	18.3	0.8	7.1	6.3	10	<0.1	0.9	0.2	34	0.08	0.053
1539302	Soil		0.6	20.5	9.9	47	<0.1	16.0	6.2	148	2.04	9.8	1.1	2.2	7.2	12	<0.1	0.7	0.2	31	0.08	0.028
1539328	Soil		0.8	27.7	12.5	60	<0.1	21.8	8.7	193	2.36	12.8	1.6	18.6	9.3	14	0.1	0.9	0.3	29	0.09	0.039
1539321	Soil		0.9	20.6	9.9	53	<0.1	19.9	8.1	196	2.03	11.7	0.9	1.9	5.8	11	<0.1	1.0	0.2	36	0.09	0.047
1539326	Soil		0.9	26.6	12.4	53	0.1	20.7	8.5	182	2.42	13.1	1.3	3.1	7.0	10	<0.1	0.8	0.3	40	0.06	0.032
1539310	Soil		0.9	29.2	12.1	57	<0.1	21.5	8.1	207	2.44	12.4	2.0	3.2	7.8	13	<0.1	1.0	0.2	35	0.08	0.020
1539320	Soil		1.1	26.8	12.7	58	<0.1	22.1	8.4	189	2.40	12.8	1.3	2.6	10.4	12	0.1	0.9	0.3	29	0.06	0.029
1539330	Soil		0.7	36.9	17.7	61	<0.1	21.6	9.4	192	2.70	17.4	2.7	4.1	16.3	15	<0.1	1.0	0.4	22	0.05	0.024
1539329	Soil		0.8	29.4	14.3	57	<0.1	19.3	7.5	145	2.60	13.2	1.9	17.6	12.3	11	<0.1	0.9	0.3	29	0.03	0.018

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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
1546199	Soil		44	16	0.28	227	0.007	<1	0.86	0.005	0.07	0.1	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
1546194	Soil		16	17	0.29	187	0.028	1	0.90	0.004	0.04	0.2	<0.01	1.7	<0.1	<0.05	3	<0.5	<0.2
1539316	Soil		22	18	0.32	125	0.024	<1	1.05	0.004	0.05	0.3	0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
1539325	Soil		29	16	0.32	122	0.013	<1	1.14	0.004	0.04	0.1	<0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
1539315	Soil		32	19	0.35	145	0.023	<1	1.06	0.004	0.04	0.3	0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
1546205	Soil		31	22	0.45	218	0.017	<1	1.23	0.008	0.07	0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
1539314	Soil		33	17	0.34	135	0.012	<1	1.01	0.003	0.04	0.2	0.02	1.4	<0.1	<0.05	3	<0.5	<0.2
1539337	Soil		29	19	0.43	112	0.016	2	1.27	0.004	0.05	0.2	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
1539334	Soil		41	22	0.54	129	0.014	<1	1.48	0.004	0.04	0.1	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
1546207	Soil		35	21	0.42	238	0.012	2	1.18	0.008	0.06	0.1	0.02	2.9	<0.1	<0.05	3	<0.5	<0.2
1539317	Soil		49	17	0.45	177	0.009	<1	1.20	0.004	0.05	<0.1	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
1539336	Soil		17	24	0.35	174	0.033	1	1.56	0.005	0.04	0.2	0.01	2.7	0.1	<0.05	4	<0.5	<0.2
1539335	Soil		18	24	0.35	159	0.028	<1	1.59	0.004	0.04	0.1	0.01	2.2	0.1	<0.05	4	<0.5	<0.2
1546206	Soil		17	21	0.33	208	0.019	1	1.31	0.005	0.08	0.1	0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
1539313	Soil		23	18	0.31	119	0.020	<1	1.00	0.004	0.04	0.3	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
1539318	Soil		27	28	0.42	243	0.038	1	1.53	0.006	0.05	0.2	0.03	4.3	<0.1	<0.05	4	<0.5	<0.2
1539324	Soil		27	16	0.34	114	0.012	<1	1.13	0.003	0.04	0.1	0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
1539333	Soil		23	23	0.41	152	0.018	<1	1.40	0.004	0.05	0.2	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
1539312	Soil		32	21	0.38	164	0.021	<1	1.15	0.004	0.04	0.2	0.02	2.4	<0.1	<0.05	3	<0.5	<0.2
1539331	Soil		31	19	0.36	95	0.012	<1	1.13	0.004	0.05	0.2	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
1539319	Soil		35	22	0.39	164	0.017	<1	1.41	0.004	0.05	0.2	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
1539323	Soil		20	19	0.34	121	0.021	<1	1.08	0.004	0.06	0.2	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
1539302	Soil		23	18	0.33	154	0.020	<1	0.90	0.004	0.04	0.2	0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
1539328	Soil		34	19	0.39	148	0.019	<1	1.05	0.004	0.04	0.2	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
1539321	Soil		19	19	0.32	95	0.022	2	1.04	0.004	0.05	0.2	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
1539326	Soil		20	23	0.35	140	0.031	1	1.27	0.004	0.05	0.1	0.03	2.3	<0.1	<0.05	4	<0.5	<0.2
1539310	Soil		31	22	0.39	271	0.024	<1	1.15	0.005	0.04	0.2	0.03	3.3	<0.1	<0.05	3	<0.5	<0.2
1539320	Soil		30	18	0.37	104	0.017	1	1.00	0.004	0.04	0.3	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
1539330	Soil		53	17	0.47	169	0.013	<1	1.08	0.004	0.04	0.1	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
1539329	Soil		35	20	0.42	113	0.017	<1	1.21	0.003	0.04	0.1	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2

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		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
1539306	Soil		0.8	31.9	10.7	54	<0.1	20.5	7.7	151	2.41	12.7	1.3	12.0	10.4	10	<0.1	0.9	0.3	31	0.05	0.021
1539332	Soil		0.9	33.4	16.5	58	0.1	16.1	6.0	139	2.76	17.3	1.8	3.5	14.1	13	<0.1	1.3	0.4	27	0.03	0.029
1539327	Soil		0.7	30.2	15.1	59	<0.1	19.8	8.5	202	2.44	13.1	1.9	6.8	11.8	14	<0.1	0.9	0.3	26	0.06	0.032
1539322	Soil		1.0	22.2	15.9	57	<0.1	18.6	6.4	183	2.69	12.9	1.5	1.4	7.1	13	0.1	0.8	0.3	30	0.05	0.051
1539305	Soil		0.8	19.4	9.4	45	<0.1	17.2	7.1	171	2.04	10.7	1.2	4.0	6.3	11	<0.1	0.8	0.2	34	0.08	0.026
1539307	Soil		1.0	13.8	10.3	53	0.1	14.9	6.2	155	2.03	9.8	0.7	15.7	3.8	9	<0.1	0.6	0.2	36	0.06	0.034
1537614	Soil		0.8	10.2	9.6	52	0.1	12.2	5.9	263	2.24	13.3	0.5	1.2	2.3	13	<0.1	0.6	0.2	46	0.13	0.116
1537664	Soil		1.0	34.3	12.8	72	<0.1	33.6	10.4	215	2.80	13.2	1.1	3.9	6.6	16	<0.1	0.9	0.2	51	0.16	0.049
1539311	Soil		0.7	26.7	10.8	50	<0.1	20.0	8.3	179	2.24	11.1	2.4	8.2	8.8	9	<0.1	0.9	0.2	32	0.05	0.016
1539308	Soil		0.9	18.6	9.6	52	<0.1	21.0	7.6	162	2.40	14.5	0.7	1.8	5.3	12	<0.1	0.9	0.2	38	0.11	0.081
1537615	Soil		0.6	20.8	7.9	44	<0.1	18.2	7.4	207	1.83	9.6	0.9	3.1	5.9	12	<0.1	0.7	0.1	31	0.12	0.042
1537613	Soil		0.7	21.8	8.8	47	<0.1	19.4	6.6	156	2.02	10.5	0.6	39.1	4.6	13	<0.1	0.8	0.1	36	0.14	0.051
1539304	Soil		0.8	22.0	10.3	53	<0.1	20.0	7.6	181	2.18	11.1	1.2	4.1	8.3	10	<0.1	0.8	0.2	26	0.07	0.025
1539303	Soil		0.6	16.9	8.2	43	<0.1	16.0	6.5	183	1.89	9.3	0.9	2.6	4.9	13	<0.1	0.6	0.2	30	0.12	0.036
1537611	Soil		0.8	11.3	6.9	42	<0.1	14.3	4.8	122	1.85	8.8	0.4	13.4	3.7	10	<0.1	0.7	0.1	31	0.10	0.040
1537612	Soil		0.6	12.2	7.3	42	<0.1	13.4	5.0	152	1.74	7.9	0.5	2.2	3.3	10	<0.1	0.6	0.1	29	0.10	0.031
1539301	Soil		0.8	17.2	10.6	46	0.1	15.0	5.7	150	2.12	10.1	0.9	2.7	5.0	11	<0.1	0.6	0.2	32	0.07	0.033
1539309	Soil		0.8	18.9	8.7	53	0.1	17.2	9.3	281	2.20	9.4	0.9	1.8	4.7	10	<0.1	0.7	0.2	30	0.08	0.047
1537609	Soil		0.8	19.0	8.4	49	<0.1	17.5	6.4	175	2.25	9.0	0.6	3.6	5.7	10	<0.1	0.7	0.2	27	0.08	0.030
1537610	Soil		0.8	24.0	9.1	55	<0.1	19.2	7.3	159	2.22	9.1	1.0	2.1	7.8	12	<0.1	0.8	0.2	26	0.08	0.021
1539264	Soil		1.0	15.4	7.4	59	<0.1	18.6	8.2	311	2.50	11.2	0.8	16.8	6.0	11	<0.1	0.8	0.2	34	0.10	0.063
1537672	Soil		0.8	20.1	9.6	50	<0.1	19.3	6.0	179	2.21	10.8	0.7	1.4	6.1	13	<0.1	0.7	0.2	32	0.13	0.050
1537667	Soil		0.6	14.5	7.9	42	<0.1	15.8	5.2	139	1.76	8.1	0.7	23.4	6.3	11	<0.1	0.6	0.1	22	0.09	0.029
1539255	Soil		1.1	19.6	7.9	57	<0.1	16.0	5.6	147	2.45	9.3	0.8	2.1	6.5	11	0.1	0.7	0.2	29	0.09	0.044
1539256	Soil		0.7	19.7	7.8	48	<0.1	17.8	7.8	200	2.01	10.8	0.7	1.8	5.3	14	<0.1	0.9	0.2	30	0.14	0.057
1537671	Soil		0.7	19.9	8.3	44	<0.1	17.1	5.9	160	1.92	9.0	1.0	13.1	5.9	12	<0.1	0.7	0.1	29	0.10	0.027
1537668	Soil		0.8	29.8	11.0	56	<0.1	21.9	7.0	213	2.41	10.2	1.2	3.1	9.4	15	<0.1	0.8	0.2	31	0.12	0.026
1545499	Soil		1.2	39.9	12.2	78	0.3	26.3	9.5	228	3.96	7.1	1.9	1.6	15.8	11	<0.1	0.6	0.4	20	0.03	0.043
1545489	Soil		0.7	18.0	7.5	43	<0.1	16.7	7.2	245	1.81	10.0	1.3	2.5	5.2	14	<0.1	0.7	0.1	28	0.14	0.050
1537670	Soil		0.8	13.6	9.4	47	<0.1	14.8	6.1	215	2.09	8.4	0.7	13.5	5.9	12	<0.1	0.6	0.2	28	0.10	0.043

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Dawson City Yukon Y0B 1G0 Canada

Project: MOO
Report Date: September 06, 2017

CERTIFICATE OF ANALYSIS WHI17000672.1

		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
1539306	Soil		24	20	0.33	119	0.020	<1	1.09	0.004	0.04	0.2	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
1539332	Soil		37	20	0.44	84	0.015	<1	1.23	0.004	0.05	0.2	0.01	1.7	<0.1	<0.05	3	<0.5	<0.2
1539327	Soil		39	18	0.43	167	0.018	<1	1.12	0.004	0.04	0.2	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
1539322	Soil		40	19	0.39	121	0.009	<1	1.20	0.003	0.05	0.1	0.05	1.4	<0.1	<0.05	4	<0.5	<0.2
1539305	Soil		20	20	0.31	182	0.024	<1	0.96	0.005	0.04	0.2	0.02	2.5	<0.1	<0.05	3	<0.5	<0.2
1539307	Soil		22	18	0.27	178	0.015	<1	1.05	0.004	0.05	0.2	0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
1537614	Soil		13	19	0.28	158	0.029	2	0.85	0.004	0.06	0.2	0.01	1.6	<0.1	<0.05	3	<0.5	<0.2
1537664	Soil		17	31	0.46	292	0.038	1	1.80	0.007	0.07	0.2	0.02	2.9	<0.1	<0.05	5	0.6	<0.2
1539311	Soil		27	21	0.31	176	0.025	<1	1.04	0.004	0.03	0.2	0.02	3.2	<0.1	<0.05	3	<0.5	<0.2
1539308	Soil		16	20	0.31	128	0.019	<1	1.05	0.004	0.05	0.2	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
1537615	Soil		16	18	0.29	143	0.026	<1	0.85	0.004	0.04	0.2	0.03	2.1	<0.1	<0.05	2	<0.5	<0.2
1537613	Soil		14	20	0.34	155	0.028	<1	1.09	0.005	0.05	0.2	0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
1539304	Soil		23	18	0.31	159	0.015	<1	0.95	0.004	0.04	0.2	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
1539303	Soil		16	19	0.32	240	0.021	1	0.98	0.006	0.03	0.2	0.02	2.5	<0.1	<0.05	3	<0.5	<0.2
1537611	Soil		12	18	0.30	130	0.021	1	0.95	0.004	0.04	0.2	0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
1537612	Soil		11	18	0.29	187	0.021	<1	0.94	0.004	0.04	0.1	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
1539301	Soil		17	20	0.32	171	0.019	1	1.06	0.005	0.05	0.2	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
1539309	Soil		19	19	0.32	142	0.018	1	0.98	0.004	0.04	0.2	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
1537609	Soil		17	19	0.34	166	0.018	<1	0.99	0.004	0.04	0.2	0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
1537610	Soil		25	19	0.37	211	0.017	<1	0.97	0.004	0.04	0.1	0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
1539264	Soil		20	20	0.33	107	0.022	1	0.89	0.003	0.05	0.3	0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
1537672	Soil		18	21	0.37	174	0.022	<1	1.13	0.004	0.06	0.2	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2
1537667	Soil		18	15	0.30	132	0.017	<1	0.79	0.003	0.04	0.1	0.01	1.7	<0.1	<0.05	2	<0.5	<0.2
1539255	Soil		20	17	0.31	133	0.019	<1	0.89	0.004	0.04	0.2	0.01	1.7	<0.1	<0.05	3	<0.5	<0.2
1539256	Soil		16	18	0.28	164	0.025	<1	0.83	0.004	0.05	0.3	0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
1537671	Soil		21	20	0.36	207	0.023	<1	1.02	0.005	0.04	0.2	0.02	2.8	<0.1	<0.05	3	<0.5	<0.2
1537668	Soil		32	23	0.40	283	0.026	<1	1.13	0.006	0.06	0.1	0.03	3.2	<0.1	<0.05	3	<0.5	<0.2
1545499	Soil		45	20	0.37	103	0.007	<1	1.23	0.008	0.05	<0.1	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
1545489	Soil		15	19	0.29	154	0.026	<1	0.80	0.005	0.05	0.2	0.03	2.8	<0.1	<0.05	2	<0.5	<0.2
1537670	Soil		20	18	0.32	152	0.017	<1	0.94	0.004	0.05	0.2	0.01	1.7	<0.1	<0.05	3	<0.5	<0.2

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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
1537669	Soil		0.6	13.2	7.4	42	<0.1	14.0	5.3	150	1.72	8.1	0.8	2.0	5.1	12	<0.1	0.6	0.1	25	0.12	0.030
1537666	Soil		0.9	16.1	10.0	48	0.1	17.2	5.6	172	2.08	9.6	0.7	0.9	5.7	13	<0.1	0.7	0.2	29	0.11	0.060
1539251	Soil		1.1	20.7	9.6	56	0.1	20.8	7.1	176	2.68	11.6	0.8	0.9	7.5	12	<0.1	0.8	0.2	30	0.09	0.076
1539263	Soil		0.7	16.7	7.5	45	<0.1	16.3	7.7	305	1.65	10.1	0.9	1.1	4.8	14	<0.1	0.7	0.1	25	0.16	0.066
1537673	Soil		1.0	20.1	10.2	53	0.1	23.6	8.0	188	2.46	14.3	0.6	2.4	5.4	12	<0.1	0.9	0.2	37	0.10	0.042
1537665	Soil		0.6	14.7	7.4	43	<0.1	16.0	5.9	174	1.85	8.7	0.7	4.0	5.1	12	<0.1	0.6	0.1	26	0.13	0.039
1537732	Soil		1.0	25.4	10.9	58	0.1	25.8	9.7	175	2.76	20.4	1.1	4.0	8.5	11	<0.1	2.8	0.2	30	0.07	0.024
1537725	Soil		0.8	18.3	8.2	48	<0.1	19.8	7.9	208	2.13	10.3	0.8	1.6	5.5	15	<0.1	1.0	0.2	33	0.16	0.045
1539262	Soil		0.9	28.3	10.0	58	<0.1	20.1	8.1	186	2.67	5.2	1.4	10.9	9.4	10	<0.1	0.6	0.3	22	0.05	0.027
1539260	Soil		0.8	22.1	9.8	58	<0.1	21.1	8.1	212	2.61	8.8	1.0	3.6	7.6	9	<0.1	0.8	0.2	34	0.07	0.023
1537726	Soil		0.8	13.4	7.2	44	0.1	15.4	5.9	163	1.96	10.2	0.6	1.6	3.9	14	<0.1	0.7	0.2	38	0.15	0.047
1475912	Soil		0.7	23.3	9.2	51	<0.1	23.0	8.7	250	2.45	21.1	1.4	8.2	8.1	15	<0.1	3.4	0.2	19	0.14	0.029
1539253	Soil		1.2	25.9	9.9	60	0.2	16.8	7.2	180	3.07	9.1	1.1	2.0	8.8	9	<0.1	0.6	0.3	32	0.06	0.042
1539267	Soil		1.2	27.2	11.1	71	<0.1	29.1	11.8	276	3.20	12.1	1.2	2.0	8.3	9	<0.1	0.8	0.3	37	0.05	0.027
1537733	Soil		1.5	49.7	17.7	82	0.1	33.3	12.9	360	4.86	19.6	2.7	3.8	17.4	18	<0.1	6.5	0.6	12	0.08	0.051
1537727	Soil		0.9	19.3	8.1	49	<0.1	19.3	7.0	183	2.09	8.6	0.8	1.6	5.4	13	<0.1	0.8	0.2	31	0.13	0.038
1537734	Soil		0.9	17.3	10.5	54	0.2	22.8	9.5	228	2.46	12.2	0.7	7.9	6.3	11	<0.1	1.4	0.2	34	0.09	0.032
1539261	Soil		0.9	23.7	9.6	58	<0.1	24.6	9.5	188	2.64	8.3	1.3	2.8	8.1	9	<0.1	0.7	0.2	33	0.06	0.026
1537730	Soil		0.7	16.9	8.0	47	0.1	19.0	8.0	245	2.17	15.0	0.8	15.3	5.4	11	<0.1	1.9	0.2	33	0.12	0.048
1537736	Soil		0.8	16.4	8.0	43	<0.1	18.0	6.8	179	1.96	13.5	0.6	2.2	5.0	11	<0.1	1.1	0.2	31	0.11	0.045
1537728	Soil		0.9	20.2	8.7	51	<0.1	21.9	7.5	164	2.24	10.4	0.7	1.2	5.7	11	<0.1	1.0	0.2	33	0.11	0.041
1545493	Soil		0.9	15.1	8.6	53	0.1	17.0	7.0	384	2.28	8.2	0.8	1.0	4.5	9	<0.1	0.5	0.2	36	0.08	0.065
1537708	Soil		0.8	10.3	10.3	62	<0.1	19.0	10.4	709	1.90	5.0	0.5	1.0	2.1	16	0.2	1.1	0.1	34	0.16	0.087
1537705	Soil		0.9	19.3	10.2	50	<0.1	21.0	8.6	195	2.31	13.7	0.8	8.3	5.6	11	<0.1	0.9	0.2	39	0.10	0.042
1537704	Soil		1.2	19.0	11.1	56	0.3	21.4	8.9	200	2.62	10.4	0.7	11.5	5.8	13	0.1	0.7	0.3	41	0.09	0.040
1537735	Soil		0.7	15.1	8.7	47	<0.1	19.0	7.8	266	1.98	11.2	0.6	2.6	5.2	9	0.1	1.1	0.2	31	0.08	0.034
1537707	Soil		0.9	12.5	10.4	47	0.1	17.5	7.9	268	2.28	9.7	0.6	1.1	4.5	11	<0.1	0.6	0.2	49	0.11	0.030
1537706	Soil		0.6	16.1	8.7	40	<0.1	16.3	6.9	172	1.83	6.8	1.2	2.3	4.4	14	<0.1	0.5	0.1	37	0.16	0.035
1537703	Soil		0.8	14.9	9.2	60	0.1	21.7	10.9	282	2.38	10.4	0.6	6.4	4.4	10	0.1	0.7	0.2	43	0.10	0.044
1537731	Soil		0.7	17.8	9.7	48	0.1	19.9	7.6	234	2.20	18.9	0.8	48.2	6.0	12	<0.1	2.7	0.2	31	0.12	0.043

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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
1537669	Soil	17	17	0.31	172	0.020	<1	0.82	0.005	0.04	0.2	0.02	1.9	<0.1	<0.05	2	<0.5	<0.2
1537666	Soil	18	16	0.26	138	0.019	<1	0.86	0.004	0.06	0.2	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
1539251	Soil	23	20	0.36	163	0.014	<1	1.15	0.005	0.06	0.1	0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
1539263	Soil	14	16	0.27	122	0.025	<1	0.66	0.004	0.05	0.2	0.01	2.5	<0.1	<0.05	2	<0.5	<0.2
1537673	Soil	15	24	0.36	149	0.026	<1	1.21	0.004	0.06	0.3	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
1537665	Soil	16	17	0.30	157	0.022	<1	0.81	0.004	0.04	0.2	0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
1537732	Soil	27	22	0.41	151	0.017	<1	1.21	0.004	0.07	0.1	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2
1537725	Soil	17	21	0.34	213	0.025	<1	0.97	0.005	0.05	0.2	0.01	2.3	0.1	<0.05	3	<0.5	<0.2
1539262	Soil	31	16	0.30	135	0.012	<1	0.92	0.005	0.04	0.1	0.01	1.7	<0.1	<0.05	3	<0.5	<0.2
1539260	Soil	20	24	0.37	138	0.025	<1	1.34	0.005	0.05	0.1	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2
1537726	Soil	14	20	0.30	145	0.032	<1	0.86	0.005	0.05	0.3	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
1475912	Soil	31	16	0.33	212	0.009	<1	0.95	0.005	0.05	0.1	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
1539253	Soil	28	20	0.36	143	0.015	<1	1.11	0.004	0.06	0.1	0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
1539267	Soil	22	25	0.31	163	0.025	<1	1.33	0.005	0.05	0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
1537733	Soil	53	18	0.40	113	0.003	<1	1.09	0.004	0.06	<0.1	0.03	1.8	<0.1	<0.05	3	<0.5	<0.2
1537727	Soil	17	19	0.31	167	0.021	<1	0.98	0.004	0.05	0.2	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
1537734	Soil	19	23	0.35	139	0.028	<1	1.15	0.005	0.09	0.1	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2
1539261	Soil	22	22	0.31	156	0.020	<1	1.27	0.005	0.04	0.2	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2
1537730	Soil	17	19	0.33	200	0.019	2	0.90	0.004	0.04	0.3	0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
1537736	Soil	16	17	0.28	145	0.021	2	0.79	0.004	0.04	0.2	0.01	1.7	<0.1	<0.05	2	<0.5	<0.2
1537728	Soil	18	19	0.32	161	0.020	2	0.97	0.004	0.04	0.2	0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
1545493	Soil	19	18	0.26	143	0.021	2	0.88	0.004	0.05	0.2	0.01	1.7	<0.1	<0.05	3	<0.5	<0.2
1537708	Soil	13	17	0.26	364	0.015	2	0.95	0.004	0.05	0.2	0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
1537705	Soil	15	22	0.31	128	0.026	2	1.05	0.004	0.05	0.2	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2
1537704	Soil	19	24	0.36	209	0.021	2	1.35	0.005	0.06	0.2	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
1537735	Soil	17	19	0.30	182	0.024	1	0.92	0.004	0.05	0.2	0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
1537707	Soil	13	27	0.39	290	0.035	2	1.45	0.006	0.04	0.2	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
1537706	Soil	16	22	0.37	289	0.033	<1	1.07	0.006	0.03	0.1	0.02	3.0	<0.1	<0.05	3	<0.5	<0.2
1537703	Soil	16	23	0.35	174	0.024	2	1.31	0.004	0.05	0.2	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
1537731	Soil	16	19	0.35	165	0.020	1	1.03	0.004	0.05	0.2	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2

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Client: **Ryanwood Exploration Inc.**
Box 213
Dawson City Yukon Y0B 1G0 Canada

Project: MOO
Report Date: September 06, 2017

CERTIFICATE OF ANALYSIS WHI17000672.1

		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
1537702	Soil		0.7	45.5	17.3	92	0.3	12.9	7.4	387	4.47	8.3	2.4	0.7	22.3	34	<0.1	0.7	0.5	22	0.06	0.065
1537710	Soil		0.8	18.6	10.3	51	<0.1	18.8	6.9	157	2.28	9.0	0.8	2.8	6.6	12	<0.1	0.8	0.2	30	0.12	0.043
1537711	Soil		1.1	20.1	9.2	56	<0.1	20.9	7.7	185	2.21	9.5	0.8	2.1	5.3	14	<0.1	1.0	0.2	33	0.14	0.048
1537729	Soil		0.8	19.9	9.7	54	0.1	21.4	8.6	241	2.58	22.1	1.0	7.0	6.4	9	<0.1	5.8	0.2	37	0.08	0.031
1545497	Soil		1.1	18.8	10.4	49	0.2	19.0	7.3	202	2.45	10.4	0.9	2.3	5.7	8	<0.1	0.6	0.2	40	0.06	0.027
1537712	Soil		1.0	21.1	12.0	53	0.1	19.1	8.7	402	2.58	7.0	1.3	1.5	7.1	14	<0.1	1.0	0.2	30	0.14	0.035
1537709	Soil		1.1	31.9	13.4	59	0.4	26.1	9.4	191	3.04	11.6	1.6	1.7	11.2	13	<0.1	0.8	0.3	30	0.07	0.033
1537701	Soil		1.4	36.5	15.2	68	<0.1	11.7	5.7	170	3.77	4.5	2.0	1.5	16.1	8	<0.1	0.5	0.5	17	0.02	0.029
1539266	Soil		2.4	36.2	16.7	55	0.2	9.1	4.6	559	3.45	5.2	2.3	1.5	15.8	15	<0.1	0.6	0.5	26	0.07	0.052
1545490	Soil		0.9	30.4	11.9	61	<0.1	19.9	6.9	175	3.02	9.3	1.5	2.8	11.7	14	<0.1	0.7	0.3	26	0.11	0.047
1539273	Soil		0.7	11.8	9.0	55	<0.1	17.9	7.7	317	2.05	9.5	0.5	1.2	4.5	18	0.1	0.6	0.2	39	0.22	0.096
1539259	Soil		1.2	42.7	11.9	78	<0.1	25.3	9.9	180	3.77	6.5	2.4	2.3	16.8	8	<0.1	0.6	0.4	20	0.03	0.026
1539258	Soil		1.0	20.5	10.1	58	0.1	18.3	7.4	235	2.66	8.7	1.0	1.0	8.2	11	<0.1	0.6	0.3	29	0.09	0.044
1545487	Soil		1.0	21.0	9.5	60	<0.1	23.2	8.2	228	2.41	11.8	0.9	28.7	6.8	15	0.1	0.8	0.2	33	0.17	0.056
1539254	Soil		0.9	17.4	9.3	46	<0.1	15.7	6.1	151	2.22	10.1	0.7	5.5	6.1	12	<0.1	0.7	0.2	33	0.12	0.052
1539271	Soil		0.9	15.3	9.1	49	<0.1	20.0	7.5	213	2.15	9.3	0.7	1.4	5.7	12	<0.1	0.6	0.2	31	0.11	0.034
1545498	Soil		0.8	13.5	9.8	53	0.2	13.6	7.6	464	2.18	7.8	0.9	1.2	4.6	9	<0.1	0.4	0.2	40	0.10	0.066
1545488	Soil		0.8	21.8	9.0	47	<0.1	17.8	6.9	173	2.28	11.2	0.9	3.9	6.3	12	<0.1	0.7	0.2	30	0.11	0.042
1539265	Soil		1.2	30.8	11.6	64	0.2	22.1	7.6	178	3.13	9.6	1.4	2.3	10.3	9	<0.1	0.8	0.3	32	0.05	0.031
1539272	Soil		1.9	52.8	15.4	98	<0.1	38.3	15.4	221	4.92	7.3	2.8	1.6	20.3	9	<0.1	0.5	0.6	12	0.03	0.044
1545492	Soil		0.8	22.0	12.3	54	<0.1	21.2	7.8	187	2.54	11.6	1.2	4.9	8.5	10	<0.1	0.8	0.3	37	0.07	0.029
1545495	Soil		1.0	26.3	10.9	56	<0.1	17.1	6.7	178	2.69	8.4	1.3	2.6	11.1	8	<0.1	0.6	0.3	21	0.06	0.031
1545494	Soil		0.8	24.3	11.1	51	<0.1	25.2	8.3	187	2.26	13.6	1.1	21.3	7.2	11	<0.1	0.9	0.2	31	0.11	0.045
1539268	Soil		0.9	14.7	9.6	56	0.2	19.9	11.8	581	2.47	7.3	0.9	1.3	5.0	12	<0.1	0.5	0.2	35	0.12	0.045
1537618	Soil		0.7	17.7	9.0	46	<0.1	15.2	6.2	175	1.91	8.8	1.3	2.8	6.3	13	0.1	0.6	0.3	32	0.11	0.028
1537620	Soil		0.7	20.2	8.7	46	<0.1	16.5	6.3	160	1.94	9.2	1.1	3.4	7.0	13	<0.1	0.7	0.3	28	0.12	0.031
1545496	Soil		0.8	27.4	10.8	60	<0.1	20.4	8.6	189	2.64	6.9	1.7	0.8	12.2	9	<0.1	0.6	0.4	27	0.04	0.025
1539270	Soil		0.8	21.5	11.1	61	0.2	20.4	11.4	567	2.60	11.2	1.2	2.3	7.4	17	<0.1	0.8	0.3	32	0.12	0.052
1537625	Soil		0.6	12.4	8.0	43	<0.1	13.0	5.1	145	1.72	8.6	0.7	1.8	4.9	12	<0.1	0.6	0.2	30	0.12	0.044
1537619	Soil		0.7	19.3	8.9	44	<0.1	15.9	6.0	177	1.88	8.9	1.3	14.6	6.3	15	<0.1	0.7	0.2	30	0.14	0.036

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Project: MOO
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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
1537702	Soil		55	26	0.75	145	0.006	<1	1.74	0.012	0.08	<0.1	0.01	1.9	<0.1	0.10	6	<0.5	<0.2
1537710	Soil		20	18	0.31	146	0.018	<1	0.96	0.004	0.04	0.1	0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
1537711	Soil		19	18	0.29	121	0.019	1	0.82	0.004	0.05	0.2	0.02	1.9	0.1	<0.05	3	<0.5	<0.2
1537729	Soil		20	21	0.37	151	0.021	1	1.14	0.004	0.04	0.2	0.02	2.5	<0.1	<0.05	3	<0.5	<0.2
1545497	Soil		16	24	0.35	167	0.024	1	1.40	0.005	0.04	0.2	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
1537712	Soil		28	18	0.30	215	0.014	1	0.92	0.005	0.06	0.3	0.03	1.9	<0.1	<0.05	3	<0.5	<0.2
1537709	Soil		32	21	0.35	155	0.015	1	1.20	0.005	0.06	0.1	0.02	2.2	<0.1	<0.05	3	<0.5	<0.2
1537701	Soil		56	21	0.62	93	0.004	<1	1.41	0.004	0.03	<0.1	0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
1539266	Soil		48	21	0.43	199	0.011	<1	1.17	0.008	0.05	<0.1	0.02	1.6	<0.1	<0.05	4	<0.5	<0.2
1545490	Soil		36	18	0.33	187	0.016	<1	0.96	0.005	0.04	0.1	0.03	2.2	<0.1	<0.05	3	<0.5	<0.2
1539273	Soil		13	21	0.32	276	0.028	1	1.05	0.006	0.06	0.2	0.02	2.4	<0.1	<0.05	3	<0.5	<0.2
1539259	Soil		46	18	0.32	119	0.009	<1	1.03	0.004	0.04	<0.1	0.02	2.4	<0.1	<0.05	3	<0.5	<0.2
1539258	Soil		27	19	0.32	167	0.018	1	1.02	0.005	0.06	0.1	0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
1545487	Soil		19	20	0.34	260	0.022	1	1.04	0.006	0.05	0.2	0.02	2.5	<0.1	<0.05	3	<0.5	<0.2
1539254	Soil		19	17	0.27	164	0.026	1	0.83	0.004	0.05	0.2	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
1539271	Soil		17	18	0.31	168	0.017	1	0.99	0.004	0.06	0.2	0.03	2.0	<0.1	<0.05	3	<0.5	<0.2
1545498	Soil		18	21	0.29	187	0.029	1	1.12	0.005	0.05	0.2	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
1545488	Soil		17	19	0.30	134	0.023	2	0.95	0.005	0.04	0.2	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
1539265	Soil		30	22	0.39	115	0.014	1	1.29	0.004	0.05	0.2	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
1539272	Soil		50	14	0.26	73	0.003	<1	0.89	0.004	0.05	<0.1	0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
1545492	Soil		20	25	0.39	183	0.037	1	1.33	0.006	0.05	0.2	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
1545495	Soil		30	17	0.33	122	0.015	<1	0.94	0.004	0.03	0.2	0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
1545494	Soil		15	20	0.34	137	0.026	1	1.14	0.004	0.04	0.2	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2
1539268	Soil		19	19	0.26	201	0.023	<1	0.96	0.005	0.06	0.2	0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
1537618	Soil		21	19	0.31	264	0.021	<1	1.02	0.004	0.04	0.2	0.02	2.7	<0.1	<0.05	3	<0.5	<0.2
1537620	Soil		23	18	0.32	219	0.021	1	0.93	0.004	0.03	0.2	0.02	2.5	<0.1	<0.05	3	<0.5	<0.2
1545496	Soil		36	17	0.32	155	0.017	<1	1.03	0.005	0.03	0.1	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
1539270	Soil		26	19	0.30	310	0.014	1	1.09	0.005	0.07	0.1	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
1537625	Soil		17	16	0.30	172	0.024	<1	0.88	0.004	0.04	0.1	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
1537619	Soil		22	18	0.34	280	0.021	<1	0.96	0.005	0.03	0.2	0.02	2.7	<0.1	<0.05	3	<0.5	<0.2

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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
1545491	Soil		0.9	35.3	10.7	62	0.1	22.6	7.4	213	2.39	11.9	0.8	6.1	6.7	12	<0.1	0.9	0.3	42	0.10	0.041
1539252	Soil		0.9	18.6	10.9	63	0.3	23.0	9.8	306	2.58	10.4	1.0	4.1	6.8	12	0.1	0.7	0.3	34	0.11	0.055
1537624	Soil		0.6	17.1	8.1	44	<0.1	14.5	5.5	159	1.75	8.2	0.7	1.8	5.0	13	<0.1	0.6	0.2	30	0.13	0.043
1537617	Soil		0.9	25.2	11.6	56	<0.1	18.9	6.5	162	2.33	13.1	1.1	4.3	8.8	12	<0.1	0.9	0.3	29	0.07	0.039
1539269	Soil		1.0	31.6	12.4	69	0.2	27.9	10.8	210	2.82	11.1	1.4	2.0	9.9	9	<0.1	0.8	0.4	28	0.05	0.026
1539257	Soil		0.6	12.3	8.1	46	0.1	15.6	7.1	384	1.94	8.0	0.5	0.9	4.3	17	0.1	0.5	0.2	33	0.15	0.049
1537623	Soil		0.8	25.9	12.2	55	<0.1	22.1	7.5	186	2.38	11.1	1.2	5.5	10.5	13	0.1	0.8	0.3	27	0.09	0.039
1537616	Soil		0.9	23.3	11.6	51	<0.1	18.0	6.8	225	2.35	12.1	1.0	16.9	8.3	13	<0.1	0.8	0.3	26	0.09	0.048
1537621	Soil		0.8	20.3	11.1	49	<0.1	14.9	5.6	130	2.22	7.4	1.0	2.1	9.3	10	<0.1	0.7	0.3	22	0.06	0.029
1545500	Soil		1.1	35.3	12.3	74	0.3	24.1	8.9	258	3.29	8.3	1.7	<0.5	12.9	12	0.2	0.6	0.4	27	0.05	0.047
1537721	Soil		0.7	15.9	9.4	45	<0.1	15.4	7.5	275	2.06	9.2	0.8	<0.5	6.0	14	<0.1	1.0	0.2	31	0.13	0.090
1539356	Soil		0.8	18.6	10.5	46	<0.1	16.8	6.7	198	1.98	10.0	1.0	3.7	6.7	11	<0.1	0.6	0.2	27	0.08	0.032
1537662	Soil		0.8	14.7	8.6	50	<0.1	14.7	5.6	195	1.99	10.0	0.7	0.7	4.9	12	0.1	0.7	0.2	35	0.12	0.054
1537622	Soil		1.0	22.0	11.6	54	<0.1	20.9	8.3	189	2.44	11.6	1.1	12.5	8.8	13	<0.1	0.8	0.2	33	0.09	0.030
1537719	Soil		0.8	25.2	11.6	55	0.1	21.7	9.1	216	2.59	9.5	1.1	2.2	9.0	12	<0.1	1.1	0.3	33	0.07	0.023
1539354	Soil		0.7	15.5	9.8	46	0.1	15.2	6.0	155	2.07	10.3	0.8	0.7	5.8	10	<0.1	0.7	0.2	31	0.08	0.037
1539351	Soil		0.6	10.9	7.9	41	<0.1	13.0	5.1	139	1.63	9.5	0.5	<0.5	4.1	10	<0.1	0.5	0.2	30	0.10	0.042
1539353	Soil		0.5	15.9	8.5	39	<0.1	14.7	5.5	150	1.75	7.8	0.7	74.6	5.4	10	<0.1	0.6	0.2	26	0.08	0.024
1537724	Soil		0.7	22.0	8.7	48	<0.1	19.8	7.7	198	2.06	10.4	1.0	3.0	7.1	15	<0.1	1.1	0.2	29	0.15	0.048
1537663	Soil		0.7	11.5	7.2	44	0.2	12.3	4.5	146	1.68	8.6	0.6	5.5	3.8	13	<0.1	0.5	0.2	32	0.14	0.074
1539357	Soil		0.8	18.2	10.1	44	<0.1	17.0	7.5	256	1.93	9.3	0.9	1.2	6.6	10	<0.1	0.6	0.2	29	0.07	0.028
1539358	Soil		0.7	12.9	10.0	40	<0.1	13.0	5.0	164	1.86	10.0	0.6	<0.5	5.0	9	<0.1	0.6	0.2	30	0.07	0.037
1537723	Soil		1.0	34.0	14.1	66	0.1	24.6	11.5	294	3.09	13.9	1.7	1.9	13.3	15	<0.1	3.7	0.4	22	0.09	0.038
1537713	Soil		0.8	12.7	8.3	41	0.1	14.8	7.2	237	1.87	8.1	0.6	3.6	4.7	13	0.1	0.8	0.2	31	0.11	0.043
1539352	Soil		0.8	14.8	9.5	53	<0.1	16.5	7.0	194	2.09	11.2	0.7	6.3	5.3	11	<0.1	0.7	0.2	36	0.10	0.037
1539355	Soil		0.7	18.6	7.6	41	<0.1	15.6	5.6	151	1.78	10.0	0.6	3.1	4.6	11	<0.1	0.7	0.1	28	0.10	0.035
1537716	Soil		0.7	12.1	8.4	48	0.1	17.2	8.0	283	1.98	8.3	0.5	1.2	3.8	13	0.1	0.6	0.2	40	0.13	0.056
1537718	Soil		1.1	43.0	13.2	77	<0.1	24.9	10.4	214	3.36	7.0	2.2	0.9	15.3	12	<0.1	0.7	0.5	19	0.03	0.038
1537717	Soil		0.9	25.2	8.5	47	<0.1	20.3	6.5	172	2.04	13.6	0.7	2.7	5.6	11	0.1	1.2	0.2	31	0.10	0.057
1537722	Soil		1.3	37.0	13.2	62	<0.1	25.6	11.7	470	3.00	10.4	1.5	<0.5	10.8	18	<0.1	2.0	0.4	25	0.11	0.042

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Project: MOO
Report Date: September 06, 2017

CERTIFICATE OF ANALYSIS WHI17000672.1

	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
1545491	Soil	18	24	0.34	234	0.026	2	1.32	0.004	0.05	0.2	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
1539252	Soil	24	19	0.32	186	0.023	2	1.08	0.004	0.08	0.2	0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
1537624	Soil	18	18	0.33	210	0.026	1	0.90	0.004	0.04	0.2	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
1537617	Soil	27	18	0.36	118	0.016	1	1.05	0.003	0.05	0.2	0.02	1.6	0.1	<0.05	3	<0.5	<0.2
1539269	Soil	24	17	0.24	140	0.018	<1	0.89	0.005	0.05	0.2	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
1539257	Soil	15	19	0.33	319	0.028	<1	0.96	0.005	0.06	0.1	0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
1537623	Soil	30	19	0.38	174	0.017	1	1.06	0.004	0.05	0.2	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
1537616	Soil	26	18	0.35	127	0.016	<1	1.04	0.003	0.05	0.2	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
1537621	Soil	34	15	0.36	139	0.012	<1	1.00	0.003	0.04	0.1	0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
1545500	Soil	43	19	0.33	130	0.015	<1	1.14	0.006	0.05	0.1	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
1537721	Soil	18	18	0.30	161	0.021	<1	0.90	0.004	0.07	0.3	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
1539356	Soil	23	17	0.29	178	0.019	<1	0.88	0.004	0.04	0.2	0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
1537662	Soil	16	20	0.31	171	0.026	1	1.08	0.004	0.05	0.2	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
1537622	Soil	25	22	0.38	172	0.025	<1	1.25	0.004	0.05	0.1	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2
1537719	Soil	28	21	0.36	192	0.024	<1	1.17	0.005	0.05	0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
1539354	Soil	19	19	0.30	168	0.022	<1	0.99	0.004	0.05	0.2	0.01	1.7	<0.1	<0.05	3	<0.5	<0.2
1539351	Soil	15	15	0.25	126	0.026	<1	0.76	0.003	0.05	0.2	0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
1539353	Soil	17	16	0.28	132	0.024	<1	0.75	0.004	0.04	0.1	0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
1537724	Soil	20	18	0.32	187	0.023	1	0.86	0.004	0.05	0.2	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
1537663	Soil	16	17	0.28	160	0.026	1	0.88	0.004	0.05	0.2	<0.01	1.7	<0.1	<0.05	3	<0.5	<0.2
1539357	Soil	22	18	0.28	176	0.021	<1	0.90	0.004	0.05	0.2	0.01	1.7	<0.1	<0.05	3	<0.5	<0.2
1539358	Soil	19	15	0.26	127	0.022	<1	0.81	0.003	0.05	0.3	0.03	1.4	<0.1	<0.05	3	<0.5	<0.2
1537723	Soil	44	17	0.36	169	0.009	<1	1.02	0.004	0.05	<0.1	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
1537713	Soil	17	17	0.26	204	0.026	1	0.75	0.004	0.06	0.2	<0.01	1.6	<0.1	<0.05	3	<0.5	<0.2
1539352	Soil	15	20	0.29	161	0.026	<1	1.05	0.004	0.05	0.2	0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
1539355	Soil	15	17	0.28	159	0.021	<1	0.89	0.003	0.03	0.2	0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
1537716	Soil	14	22	0.33	271	0.029	<1	1.11	0.005	0.05	0.2	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
1537718	Soil	51	18	0.44	141	0.005	<1	1.16	0.004	0.04	<0.1	0.02	1.6	<0.1	<0.05	4	<0.5	<0.2
1537717	Soil	16	18	0.31	126	0.023	<1	0.92	0.004	0.05	0.2	0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
1537722	Soil	30	18	0.34	207	0.015	1	0.91	0.006	0.06	0.2	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2

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		Method	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
1537720	Soil		0.9	37.0	15.3	60	0.2	17.8	9.3	373	3.55	11.2	1.6	2.0	11.9	21	<0.1	1.7	0.4	27	0.10	0.067
1537714	Soil		0.8	17.4	8.3	45	<0.1	19.8	7.2	161	2.01	9.1	0.5	1.1	4.7	14	0.1	0.8	0.2	33	0.12	0.029
1537715	Soil		0.6	11.4	7.8	41	0.1	16.0	7.6	245	1.78	7.0	0.4	6.9	4.0	12	<0.1	0.6	0.1	35	0.11	0.033

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		Method	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
1537720	Soil		39	20	0.48	240	0.014	1	1.22	0.005	0.06	0.2	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
1537714	Soil		15	19	0.32	237	0.022	3	0.98	0.004	0.05	0.2	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
1537715	Soil		13	17	0.27	219	0.022	2	0.82	0.004	0.05	0.2	0.01	1.8	<0.1	<0.05	3	<0.5	<0.2

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QUALITY CONTROL REPORT WHI17000672.1

	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
Pulp Duplicates																					
1546198	Soil	0.6	11.7	9.8	67	<0.1	18.9	9.2	303	2.13	9.0	0.8	11.4	4.9	22	0.2	0.6	0.2	41	0.30	0.051
REP 1546198	QC	0.7	11.8	9.5	69	<0.1	18.8	8.9	303	2.07	9.5	0.7	<0.5	4.8	23	0.2	0.6	0.2	41	0.32	0.050
1539320	Soil	1.1	26.8	12.7	58	<0.1	22.1	8.4	189	2.40	12.8	1.3	2.6	10.4	12	0.1	0.9	0.3	29	0.06	0.029
REP 1539320	QC	1.0	27.5	12.6	57	<0.1	21.4	7.7	181	2.28	12.5	1.3	2.9	10.3	12	<0.1	0.9	0.3	28	0.06	0.028
1539263	Soil	0.7	16.7	7.5	45	<0.1	16.3	7.7	305	1.65	10.1	0.9	1.1	4.8	14	<0.1	0.7	0.1	25	0.16	0.066
REP 1539263	QC	0.6	16.5	7.5	45	<0.1	16.4	8.0	304	1.69	10.2	0.9	2.7	4.9	14	<0.1	0.8	0.1	25	0.15	0.066
1545490	Soil	0.9	30.4	11.9	61	<0.1	19.9	6.9	175	3.02	9.3	1.5	2.8	11.7	14	<0.1	0.7	0.3	26	0.11	0.047
REP 1545490	QC	0.9	30.3	11.7	62	<0.1	20.2	6.8	180	2.97	9.5	1.5	1.8	11.8	14	<0.1	0.7	0.3	27	0.11	0.048
1537717	Soil	0.9	25.2	8.5	47	<0.1	20.3	6.5	172	2.04	13.6	0.7	2.7	5.6	11	0.1	1.2	0.2	31	0.10	0.057
REP 1537717	QC	0.7	24.8	8.4	48	<0.1	20.0	6.4	166	1.97	14.0	0.7	0.8	5.4	12	<0.1	1.0	0.2	31	0.11	0.055
Reference Materials																					
STD DS11	Standard	13.6	157.4	144.8	349	1.6	76.1	14.0	999	3.10	44.9	2.9	80.1	8.2	70	2.6	10.1	14.0	51	1.01	0.072
STD DS11	Standard	14.2	164.4	146.7	346	1.6	79.8	14.3	1015	3.05	45.6	3.0	94.0	8.9	68	2.7	9.4	14.4	49	1.03	0.081
STD DS11	Standard	14.3	141.8	134.4	335	1.7	76.4	13.7	1015	3.03	43.5	2.6	74.1	7.8	65	2.4	9.1	12.2	49	0.99	0.073
STD DS11	Standard	14.6	149.7	147.2	342	1.7	80.0	14.7	1045	3.29	43.6	2.8	101.6	8.2	65	2.3	8.7	12.4	53	1.02	0.074
STD DS11	Standard	14.0	151.2	136.0	317	1.7	76.9	13.8	977	3.05	43.2	2.9	65.5	8.2	70	2.8	9.0	12.8	49	1.01	0.071
STD DS11	Standard	13.3	162.8	129.6	334	1.6	75.0	13.5	954	2.95	45.2	2.9	67.2	8.3	63	2.6	9.8	14.5	50	0.98	0.070
STD OXC129	Standard	1.2	29.1	6.6	42	<0.1	76.6	20.4	414	2.92	0.6	0.8	189.5	2.0	173	<0.1	<0.1	<0.1	52	0.63	0.110
STD OXC129	Standard	1.3	30.8	6.8	43	<0.1	81.2	21.4	435	3.14	1.0	0.8	194.4	2.2	194	<0.1	<0.1	<0.1	57	0.72	0.108
STD OXC129	Standard	1.3	26.5	6.2	42	<0.1	75.4	19.6	429	3.05	0.6	0.7	187.7	1.9	188	<0.1	<0.1	<0.1	51	0.67	0.111
STD OXC129	Standard	1.3	28.4	6.7	41	<0.1	80.4	21.1	420	3.12	0.9	0.7	191.5	1.9	183	<0.1	<0.1	<0.1	55	0.66	0.103
STD OXC129	Standard	1.2	28.9	6.5	39	<0.1	77.6	21.0	416	3.02	0.5	0.7	193.2	2.0	181	<0.1	<0.1	<0.1	52	0.66	0.099
STD OXC129	Standard	1.3	31.0	6.8	42	<0.1	76.5	21.0	405	3.01	0.8	0.8	204.6	2.0	185	<0.1	<0.1	0.1	55	0.63	0.106
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	<2	<0.01	<0.001

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QUALITY CONTROL REPORT WHI17000672.1

	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																		
1546198	Soil	17	23	0.37	300	0.031	2	1.16	0.008	0.09	0.1	0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
REP 1546198	QC	17	23	0.37	300	0.033	<1	1.12	0.008	0.09	0.2	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
1539320	Soil	30	18	0.37	104	0.017	1	1.00	0.004	0.04	0.3	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
REP 1539320	QC	29	17	0.36	102	0.016	<1	1.01	0.003	0.04	0.2	0.01	1.7	<0.1	<0.05	3	<0.5	<0.2
1539263	Soil	14	16	0.27	122	0.025	<1	0.66	0.004	0.05	0.2	0.01	2.5	<0.1	<0.05	2	<0.5	<0.2
REP 1539263	QC	15	16	0.25	116	0.024	1	0.65	0.004	0.04	0.2	0.02	2.3	<0.1	<0.05	2	<0.5	<0.2
1545490	Soil	36	18	0.33	187	0.016	<1	0.96	0.005	0.04	0.1	0.03	2.2	<0.1	<0.05	3	<0.5	<0.2
REP 1545490	QC	35	19	0.33	186	0.016	<1	0.95	0.005	0.04	0.1	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
1537717	Soil	16	18	0.31	126	0.023	<1	0.92	0.004	0.05	0.2	0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
REP 1537717	QC	15	18	0.30	127	0.024	1	0.88	0.004	0.05	0.2	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
Reference Materials																		
STD DS11	Standard	21	57	0.80	366	0.097	7	1.07	0.068	0.38	3.1	0.25	3.2	4.9	0.27	5	2.1	4.7
STD DS11	Standard	21	59	0.82	361	0.100	7	1.14	0.069	0.37	2.9	0.24	3.2	4.9	0.27	5	2.3	4.5
STD DS11	Standard	19	60	0.84	358	0.089	7	1.11	0.073	0.38	3.0	0.26	3.4	4.8	0.29	5	2.1	4.7
STD DS11	Standard	20	62	0.86	374	0.095	8	1.17	0.073	0.37	3.1	0.23	3.6	4.9	0.31	5	2.5	4.7
STD DS11	Standard	19	58	0.81	367	0.095	8	1.09	0.070	0.39	3.0	0.25	3.3	4.7	0.30	5	2.3	4.4
STD DS11	Standard	20	57	0.82	338	0.090	6	1.08	0.065	0.39	2.9	0.24	3.1	4.7	0.28	4	2.2	4.5
STD OXC129	Standard	14	48	1.49	48	0.374	1	1.46	0.577	0.35	<0.1	<0.01	0.8	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	14	55	1.52	50	0.417	1	1.57	0.584	0.36	<0.1	<0.01	0.9	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	12	53	1.53	50	0.384	1	1.56	0.594	0.35	<0.1	<0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	13	54	1.49	50	0.394	1	1.46	0.601	0.34	<0.1	<0.01	1.2	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	14	50	1.41	50	0.377	1	1.51	0.568	0.33	<0.1	<0.01	0.7	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	14	50	1.52	48	0.382	1	1.51	0.561	0.35	<0.1	<0.01	0.8	<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

Client: **Ryanwood Exploration Inc.**
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Project: MOO
Report Date: September 06, 2017

QUALITY CONTROL REPORT WHI17000672.1

		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
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	<2	<0.01	<0.001

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QUALITY CONTROL REPORT WHI17000672.1

		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

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Submitted By: Shawn Ryan
Receiving Lab: Canada-Whitehorse
Received: August 23, 2017
Report Date: September 06, 2017
Page: 1 of 8

CERTIFICATE OF ANALYSIS WHI17000673.1

CLIENT JOB INFORMATION

Project: LIB
Shipment ID: LIB-20170822-001-SOIL
P.O. Number
Number of Samples: 184

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.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	184	Dry at 60C			WHI
SS80	184	Dry at 60C sieve 100g to -80 mesh			WHI
AQ201	184	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
SHP01	184	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

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

CC: Isaac Fage
Jodie Gibson

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Production Manager

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

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Client: **Ryanwood Exploration Inc.**
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Dawson City Yukon Y0B 1G0 Canada

Project: LIB
Report Date: September 06, 2017

CERTIFICATE OF ANALYSIS WHI17000673.1

		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
1545683	Soil		0.9	20.1	8.6	61	<0.1	18.3	6.4	207	1.78	10.6	0.9	1.1	3.8	10	0.1	1.1	0.3	28	0.08	0.039
1548186	Soil		0.7	12.6	7.7	52	<0.1	14.1	7.2	183	1.65	10.1	0.6	1.4	4.5	11	<0.1	0.8	0.3	28	0.10	0.053
1548191	Soil		0.7	16.3	7.6	54	<0.1	15.9	6.2	264	1.74	9.6	0.8	1.5	5.7	11	0.1	0.9	0.2	26	0.10	0.049
1548188	Soil		0.5	16.4	6.0	42	<0.1	16.2	5.8	223	1.35	9.4	0.6	1.7	4.9	11	<0.1	0.9	0.2	21	0.10	0.050
1545679	Soil		0.5	21.2	7.5	42	<0.1	15.6	7.3	226	1.62	12.7	0.9	1.8	4.7	8	<0.1	0.8	0.2	21	0.07	0.034
1548183	Soil		0.7	13.5	7.0	49	<0.1	15.5	7.1	244	1.53	10.4	0.6	38.3	4.9	10	<0.1	0.9	0.1	25	0.10	0.049
1548192	Soil		0.7	12.5	7.4	50	<0.1	14.2	6.0	227	1.67	9.6	0.7	0.9	5.5	11	0.1	0.8	0.2	27	0.11	0.059
1548190	Soil		0.4	13.8	7.7	47	<0.1	12.4	5.0	115	1.07	4.2	0.8	1.0	4.7	17	0.1	0.6	0.2	20	0.21	0.047
1545707	Soil		1.1	17.1	14.6	62	<0.1	20.6	7.6	232	2.52	13.9	0.7	3.4	6.3	9	0.1	0.9	0.3	41	0.07	0.078
1548187	Soil		0.7	17.6	7.6	58	<0.1	16.4	5.8	144	1.71	9.3	0.7	0.6	4.9	9	0.1	0.8	0.1	31	0.09	0.034
1548189	Soil		0.7	20.9	7.7	62	<0.1	20.7	7.9	313	1.73	10.7	0.8	1.0	5.4	16	0.2	1.0	0.2	25	0.14	0.067
1548185	Soil		0.5	13.9	6.2	41	<0.1	13.4	5.5	180	1.37	9.0	0.6	<0.5	4.1	10	<0.1	0.8	0.2	22	0.10	0.046
1545704	Soil		0.8	16.4	9.7	52	<0.1	16.2	5.9	140	2.05	14.3	0.5	<0.5	4.7	7	<0.1	1.0	0.2	35	0.06	0.027
1548193	Soil		0.7	16.2	8.0	52	<0.1	16.8	6.5	262	1.84	10.1	0.8	0.5	6.0	10	<0.1	0.8	0.2	26	0.09	0.048
1548182	Soil		0.8	13.2	8.0	49	<0.1	14.4	7.1	192	1.83	12.0	0.6	1.6	5.1	11	<0.1	0.9	0.2	29	0.10	0.076
1548184	Soil		0.6	21.2	7.5	44	<0.1	17.4	5.6	157	1.68	10.6	0.7	1.2	5.2	10	0.1	0.9	0.2	27	0.09	0.030
1548175	Soil		0.6	10.6	6.7	53	<0.1	11.9	6.8	361	1.43	9.5	0.6	<0.5	4.7	12	0.1	0.8	0.1	21	0.11	0.085
1548159	Soil		0.7	13.1	9.1	40	<0.1	11.6	4.7	165	1.83	8.2	0.7	3.3	6.6	9	<0.1	0.8	0.2	20	0.08	0.036
1548158	Soil		0.5	16.7	7.2	45	<0.1	14.0	5.0	153	1.61	8.8	0.7	25.4	5.1	10	<0.1	0.8	0.1	22	0.10	0.043
1545685	Soil		0.7	12.7	8.4	46	<0.1	13.2	10.4	361	1.74	13.8	0.8	<0.5	4.4	11	<0.1	0.7	0.1	25	0.11	0.064
1548172	Soil		0.6	20.6	7.1	43	<0.1	18.4	5.6	128	1.58	10.1	0.6	0.7	4.9	9	<0.1	0.9	0.1	25	0.11	0.052
1548164	Soil		0.8	20.0	10.7	45	0.1	13.6	5.6	178	2.01	9.0	0.9	9.5	6.9	11	<0.1	0.8	0.2	22	0.09	0.059
1548163	Soil		0.7	14.8	9.7	40	0.1	11.7	5.2	144	2.06	9.8	0.9	0.7	6.7	11	<0.1	0.8	0.2	21	0.11	0.047
1545681	Soil		0.5	23.1	8.2	43	<0.1	16.8	7.7	272	1.63	13.7	1.0	3.2	5.3	11	<0.1	0.8	0.1	20	0.12	0.055
1548179	Soil		0.7	11.4	7.3	47	<0.1	13.7	6.1	230	1.60	10.3	0.6	86.3	4.9	10	0.1	0.8	0.1	25	0.10	0.073
1548162	Soil		0.7	19.8	10.0	55	<0.1	16.3	6.9	206	1.99	8.6	1.2	5.2	6.3	16	0.2	0.7	0.3	24	0.18	0.054
1548165	Soil		0.7	12.0	8.2	40	0.1	11.3	4.3	128	1.77	10.3	0.6	12.6	5.2	12	0.1	0.7	0.2	27	0.11	0.060
1548157	Soil		0.8	22.1	9.0	61	<0.1	18.5	7.5	222	1.97	12.5	1.1	2.1	6.3	11	<0.1	1.0	0.2	32	0.10	0.043
1548173	Soil		0.9	9.9	8.2	67	<0.1	12.0	8.1	415	1.87	11.2	0.6	<0.5	5.0	9	0.1	0.8	0.2	32	0.09	0.084
1548174	Soil		0.7	12.9	8.1	57	<0.1	11.9	8.2	256	1.82	10.3	0.7	71.4	5.0	11	<0.1	0.8	0.2	30	0.10	0.066

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Project: LIB
Report Date: September 06, 2017

CERTIFICATE OF ANALYSIS WHI17000673.1

		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
1545683	Soil		17	15	0.28	161	0.019	1	0.79	0.004	0.04	0.2	0.02	2.1	<0.1	<0.05	2	<0.5	<0.2
1548186	Soil		12	14	0.23	195	0.019	2	0.81	0.004	0.05	0.1	0.01	1.6	<0.1	<0.05	2	<0.5	<0.2
1548191	Soil		17	14	0.24	184	0.016	2	0.77	0.004	0.05	0.2	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
1548188	Soil		14	11	0.21	132	0.018	<1	0.61	0.003	0.04	0.1	<0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
1545679	Soil		16	13	0.24	120	0.020	1	0.67	0.003	0.03	0.2	0.02	2.2	<0.1	<0.05	2	<0.5	<0.2
1548183	Soil		13	14	0.22	162	0.019	2	0.73	0.003	0.05	0.2	<0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
1548192	Soil		16	14	0.23	155	0.017	1	0.80	0.004	0.05	0.2	<0.01	1.6	<0.1	<0.05	3	<0.5	<0.2
1548190	Soil		21	12	0.23	186	0.008	<1	0.76	0.003	0.04	0.2	0.04	1.5	<0.1	<0.05	2	<0.5	<0.2
1545707	Soil		19	19	0.28	160	0.025	1	1.19	0.005	0.10	0.3	0.01	2.0	0.1	<0.05	4	<0.5	<0.2
1548187	Soil		14	17	0.27	184	0.024	1	0.96	0.004	0.05	0.2	0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
1548189	Soil		17	14	0.25	185	0.018	2	0.71	0.004	0.05	0.1	0.01	1.9	<0.1	<0.05	2	<0.5	<0.2
1548185	Soil		13	12	0.21	161	0.019	1	0.63	0.003	0.04	0.2	0.01	1.8	<0.1	<0.05	2	<0.5	<0.2
1545704	Soil		14	19	0.26	166	0.021	1	1.10	0.003	0.05	0.3	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
1548193	Soil		18	15	0.24	213	0.014	<1	0.88	0.003	0.05	0.1	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
1548182	Soil		13	15	0.23	132	0.019	2	0.75	0.003	0.06	0.2	<0.01	1.7	<0.1	<0.05	2	<0.5	<0.2
1548184	Soil		15	15	0.27	189	0.020	<1	0.82	0.004	0.05	0.2	0.02	1.9	<0.1	<0.05	2	<0.5	<0.2
1548175	Soil		14	11	0.20	120	0.016	<1	0.57	0.003	0.05	0.1	<0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
1548159	Soil		23	12	0.24	108	0.009	<1	0.79	0.003	0.04	0.1	0.01	1.3	<0.1	<0.05	3	<0.5	<0.2
1548158	Soil		19	13	0.23	130	0.015	1	0.76	0.004	0.05	0.1	0.03	1.5	<0.1	<0.05	2	<0.5	<0.2
1545685	Soil		16	15	0.26	93	0.021	<1	0.80	0.003	0.04	0.2	0.01	2.0	<0.1	<0.05	2	0.5	<0.2
1548172	Soil		14	14	0.23	133	0.019	1	0.84	0.003	0.04	0.1	0.01	1.7	<0.1	<0.05	2	<0.5	<0.2
1548164	Soil		27	14	0.25	108	0.009	1	0.82	0.003	0.06	0.3	0.03	1.5	<0.1	<0.05	3	<0.5	<0.2
1548163	Soil		25	13	0.25	143	0.006	1	0.90	0.003	0.06	0.2	0.04	1.5	<0.1	<0.05	3	<0.5	<0.2
1545681	Soil		18	12	0.25	129	0.019	1	0.68	0.003	0.04	0.2	0.03	2.1	<0.1	<0.05	2	<0.5	<0.2
1548179	Soil		13	13	0.23	110	0.019	1	0.73	0.003	0.05	0.2	<0.01	1.6	<0.1	<0.05	2	<0.5	<0.2
1548162	Soil		25	14	0.28	239	0.007	2	0.96	0.003	0.06	0.2	0.04	1.9	<0.1	<0.05	3	<0.5	<0.2
1548165	Soil		21	13	0.24	170	0.013	2	0.81	0.003	0.07	0.3	0.02	1.5	<0.1	<0.05	3	<0.5	<0.2
1548157	Soil		20	18	0.29	187	0.026	1	0.95	0.004	0.06	0.2	0.03	3.3	<0.1	<0.05	3	<0.5	<0.2
1548173	Soil		14	16	0.24	138	0.018	1	0.85	0.003	0.06	0.2	<0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
1548174	Soil		15	15	0.23	160	0.021	1	0.78	0.004	0.05	0.2	0.01	1.8	<0.1	<0.05	3	<0.5	<0.2

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Client: **Ryanwood Exploration Inc.**
Box 213
Dawson City Yukon Y0B 1G0 Canada

Project: LIB
Report Date: September 06, 2017

CERTIFICATE OF ANALYSIS WHI17000673.1

		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
1548166	Soil		0.7	12.5	7.4	56	<0.1	15.0	7.7	497	1.64	10.1	0.6	0.5	4.9	13	0.2	0.9	0.1	26	0.13	0.125
1548161	Soil		0.6	15.9	9.0	45	<0.1	13.2	6.9	261	2.02	8.6	1.0	3.7	7.3	10	<0.1	0.8	0.2	22	0.09	0.039
1548595	Soil		0.4	8.8	5.7	30	<0.1	9.6	4.0	131	1.24	7.0	0.6	36.4	3.9	17	<0.1	0.4	0.1	25	0.21	0.025
1548587	Soil		0.4	18.5	7.1	36	<0.1	16.2	6.4	357	1.41	7.6	1.6	24.8	3.4	44	0.1	0.6	0.2	23	0.66	0.050
1548589	Soil		0.3	21.5	7.6	34	<0.1	14.0	4.6	86	1.45	6.9	1.8	1.9	4.1	34	<0.1	0.4	0.2	22	0.45	0.048
1548176	Soil		0.6	13.6	8.1	47	<0.1	15.2	7.5	281	1.67	11.5	0.6	1.2	4.9	12	0.1	0.9	0.1	29	0.12	0.079
1548598	Soil		0.7	12.7	6.4	34	<0.1	13.7	5.2	158	1.42	8.2	0.7	3.1	3.5	15	<0.1	0.5	0.1	22	0.15	0.030
1548590	Soil		0.5	11.8	6.5	38	<0.1	13.1	5.3	273	1.44	9.2	1.0	4.1	3.8	23	<0.1	0.6	0.1	21	0.33	0.055
1548593	Soil		0.5	10.3	7.8	34	<0.1	13.1	5.9	192	1.54	8.2	0.6	1.4	4.3	17	<0.1	0.4	0.1	24	0.20	0.023
1548177	Soil		0.6	12.0	6.5	49	<0.1	15.2	5.1	157	1.46	8.6	0.5	2.6	3.9	9	<0.1	0.6	0.1	23	0.11	0.055
1548601	Soil		0.6	11.3	6.4	37	<0.1	13.0	4.8	139	1.40	7.5	0.7	4.2	3.4	17	<0.1	0.4	0.1	24	0.20	0.027
1548591	Soil		0.5	15.9	7.1	36	0.1	15.1	6.3	240	1.54	9.2	1.2	0.9	3.2	27	0.1	0.7	0.1	23	0.38	0.044
1548594	Soil		0.6	17.5	9.1	38	<0.1	16.0	7.3	179	1.77	8.1	1.0	2.3	4.1	28	<0.1	0.4	0.2	22	0.39	0.040
1548169	Soil		0.6	13.3	7.6	40	0.1	12.9	6.9	399	1.71	6.9	0.7	4.6	5.4	9	<0.1	0.6	0.2	20	0.07	0.034
1548603	Soil		0.6	18.2	7.3	36	0.1	15.8	7.6	184	1.47	8.4	1.6	7.7	3.6	28	<0.1	0.5	0.1	23	0.34	0.041
1548596	Soil		0.6	17.2	7.5	40	<0.1	16.0	5.8	228	1.52	8.4	0.8	1.9	3.9	21	<0.1	0.5	0.1	23	0.25	0.036
1548588	Soil		1.3	19.2	7.6	79	<0.1	20.8	7.9	163	2.34	9.8	0.9	15.1	4.3	28	0.2	0.9	0.1	29	0.32	0.069
1548171	Soil		0.5	10.1	6.3	37	<0.1	11.7	4.9	164	1.26	5.6	0.6	0.8	3.6	13	<0.1	0.5	0.1	18	0.15	0.047
1548599	Soil		0.5	13.7	6.6	32	<0.1	13.8	5.4	130	1.43	12.1	0.9	60.7	4.9	11	<0.1	0.7	0.1	18	0.13	0.041
1548611	Soil		1.0	11.6	9.5	46	<0.1	15.3	6.2	175	1.99	13.0	0.4	24.6	3.3	9	<0.1	0.8	0.2	36	0.08	0.037
1548604	Soil		0.7	20.1	8.1	47	<0.1	16.9	5.3	206	1.59	7.9	0.8	1.4	5.0	16	<0.1	0.6	0.1	21	0.19	0.033
1548168	Soil		0.7	13.3	7.6	50	<0.1	15.9	7.4	237	1.71	9.3	0.6	<0.5	4.9	9	0.1	0.7	0.1	28	0.09	0.040
1548606	Soil		0.5	12.8	6.9	33	0.1	13.1	6.3	242	1.39	7.2	1.1	2.0	3.5	21	<0.1	0.4	0.1	23	0.31	0.038
1548597	Soil		0.8	20.8	10.5	43	<0.1	18.8	6.4	201	1.75	11.4	0.9	2.2	5.3	12	<0.1	0.9	0.2	21	0.12	0.026
1548180	Soil		0.7	12.7	7.4	59	<0.1	15.2	7.2	344	1.77	9.1	0.6	2.0	4.1	10	0.1	0.6	0.1	33	0.11	0.075
1548181	Soil		0.7	9.7	6.6	41	<0.1	12.7	7.1	230	1.39	9.6	0.5	1.2	3.8	9	0.1	0.7	0.1	21	0.09	0.072
1548610	Soil		0.9	11.3	9.7	42	<0.1	17.7	6.8	137	1.91	15.9	0.5	2.0	3.8	7	<0.1	0.9	0.2	31	0.06	0.037
1548605	Soil		0.6	10.5	6.9	33	<0.1	11.5	4.5	105	1.30	7.6	0.6	10.8	3.1	21	<0.1	0.6	0.1	24	0.25	0.025
1548178	Soil		0.9	10.3	8.1	62	<0.1	15.0	7.5	476	1.74	10.3	0.5	<0.5	3.6	10	0.2	0.7	0.1	33	0.11	0.110
1548167	Soil		0.6	11.9	8.5	42	<0.1	11.8	5.4	169	1.88	8.9	0.6	0.8	5.1	9	<0.1	0.7	0.1	23	0.09	0.044

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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
1548166	Soil		15	14	0.22	225	0.019	1	0.77	0.003	0.05	0.2	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
1548161	Soil		26	13	0.24	188	0.008	1	0.91	0.003	0.05	0.2	0.03	1.7	<0.1	<0.05	3	<0.5	<0.2
1548595	Soil		13	12	0.21	193	0.016	<1	0.67	0.004	0.04	0.2	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1548587	Soil		14	12	0.24	239	0.013	2	0.62	0.005	0.04	0.2	0.05	1.6	<0.1	<0.05	2	<0.5	<0.2
1548589	Soil		18	12	0.21	88	0.013	2	0.64	0.004	0.06	0.4	0.12	2.0	<0.1	<0.05	2	0.6	<0.2
1548176	Soil		14	14	0.23	126	0.019	1	0.73	0.003	0.05	0.2	0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
1548598	Soil		10	12	0.21	220	0.012	<1	0.68	0.003	0.03	0.2	0.02	1.7	<0.1	<0.05	2	<0.5	<0.2
1548590	Soil		12	11	0.21	191	0.014	2	0.55	0.003	0.03	0.4	0.04	1.4	<0.1	<0.05	2	<0.5	<0.2
1548593	Soil		13	13	0.23	210	0.011	2	0.76	0.003	0.04	0.2	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1548177	Soil		9	12	0.22	144	0.015	1	0.69	0.002	0.04	0.2	<0.01	1.3	<0.1	<0.05	2	<0.5	<0.2
1548601	Soil		11	13	0.23	221	0.012	2	0.75	0.003	0.04	0.2	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1548591	Soil		10	13	0.23	371	0.015	2	0.67	0.004	0.03	0.1	0.02	2.0	<0.1	<0.05	2	<0.5	<0.2
1548594	Soil		16	12	0.26	215	0.010	1	0.80	0.003	0.06	0.2	0.05	1.7	<0.1	<0.05	2	<0.5	<0.2
1548169	Soil		18	12	0.22	203	0.009	1	0.73	0.002	0.04	0.2	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1548603	Soil		12	12	0.23	295	0.012	<1	0.71	0.004	0.03	0.2	0.04	1.8	<0.1	<0.05	2	<0.5	<0.2
1548596	Soil		13	13	0.23	238	0.011	1	0.79	0.004	0.04	0.2	0.03	1.9	<0.1	<0.05	2	<0.5	<0.2
1548588	Soil		14	13	0.24	170	0.014	<1	0.64	0.004	0.05	0.3	0.04	1.8	<0.1	<0.05	2	<0.5	<0.2
1548171	Soil		11	11	0.21	166	0.010	<1	0.63	0.002	0.04	0.2	0.02	1.3	<0.1	<0.05	2	<0.5	<0.2
1548599	Soil		13	11	0.19	113	0.013	<1	0.62	0.002	0.04	0.3	0.02	1.8	<0.1	<0.05	2	<0.5	<0.2
1548611	Soil		10	18	0.27	200	0.017	<1	1.05	0.003	0.06	0.2	0.01	1.7	<0.1	<0.05	3	<0.5	<0.2
1548604	Soil		15	13	0.23	206	0.011	<1	0.70	0.003	0.04	0.2	0.04	2.0	<0.1	<0.05	2	<0.5	<0.2
1548168	Soil		11	15	0.25	134	0.016	<1	0.86	0.003	0.05	0.1	0.01	1.7	<0.1	<0.05	2	<0.5	<0.2
1548606	Soil		12	12	0.21	265	0.011	<1	0.74	0.003	0.03	0.3	0.03	1.7	<0.1	<0.05	2	<0.5	<0.2
1548597	Soil		13	13	0.24	159	0.012	<1	0.69	0.003	0.04	0.2	0.03	2.0	<0.1	<0.05	2	<0.5	<0.2
1548180	Soil		11	16	0.26	179	0.019	<1	0.95	0.003	0.05	0.2	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
1548181	Soil		10	11	0.19	110	0.012	<1	0.67	0.002	0.04	0.1	0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
1548610	Soil		10	17	0.24	174	0.016	1	1.05	0.003	0.05	0.3	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
1548605	Soil		10	12	0.20	166	0.013	<1	0.69	0.003	0.04	0.2	0.05	1.4	<0.1	<0.05	2	<0.5	<0.2
1548178	Soil		10	15	0.25	214	0.015	<1	1.00	0.003	0.06	0.2	0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
1548167	Soil		16	13	0.23	115	0.011	<1	0.84	0.005	0.05	0.1	0.02	1.2	<0.1	<0.05	2	<0.5	<0.2

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	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
1548602	Soil	0.6	12.0	7.1	38	<0.1	12.5	5.1	163	1.56	8.2	0.8	1.7	4.1	17	<0.1	0.5	0.1	27	0.20	0.026
1548608	Soil	1.2	9.0	9.3	66	<0.1	14.0	6.2	290	2.04	12.3	0.5	0.8	3.2	8	0.2	0.8	0.2	38	0.07	0.075
1548160	Soil	0.6	10.1	8.0	48	<0.1	13.8	5.2	200	1.56	10.4	0.5	7.3	3.6	10	0.1	0.7	0.1	22	0.11	0.072
1548170	Soil	0.7	12.7	9.5	43	0.1	12.1	7.3	404	2.10	8.1	0.7	0.8	5.6	10	<0.1	0.6	0.2	21	0.11	0.039
1548584	Soil	0.6	18.3	8.3	34	0.1	15.1	6.4	484	1.49	8.0	1.5	1.7	3.0	38	0.2	0.5	0.1	22	0.61	0.047
1548581	Soil	0.6	21.4	7.1	37	<0.1	16.3	5.6	166	1.54	11.5	0.7	53.5	4.7	16	<0.1	0.6	0.1	21	0.16	0.037
1548579	Soil	0.6	11.4	5.7	32	<0.1	10.3	3.5	98	1.25	7.2	0.8	1.5	3.2	25	<0.1	0.3	0.1	22	0.26	0.029
1548600	Soil	0.6	13.0	6.5	30	<0.1	13.9	5.6	125	1.43	11.6	0.9	1.9	4.7	11	<0.1	0.6	0.1	18	0.14	0.042
1548580	Soil	0.6	17.1	20.0	39	<0.1	17.4	6.1	318	1.74	20.7	1.2	5.1	4.1	21	<0.1	0.6	0.2	26	0.19	0.024
1548577	Soil	0.5	15.4	6.9	34	<0.1	14.1	6.0	171	1.49	8.1	1.1	1.4	3.7	23	0.1	0.5	0.1	19	0.28	0.038
1548585	Soil	0.4	8.2	4.4	27	<0.1	8.9	3.4	123	1.06	5.3	0.6	2.4	3.2	24	<0.1	0.3	<0.1	15	0.33	0.041
1548609	Soil	0.8	14.4	9.2	52	<0.1	15.1	5.4	153	1.90	14.0	0.6	2.1	4.5	6	0.1	0.8	0.2	30	0.06	0.035
1548578	Soil	0.6	11.6	5.7	33	<0.1	12.2	4.9	178	1.33	7.4	1.2	2.5	3.3	25	<0.1	0.5	0.1	19	0.36	0.045
1548582	Soil	0.6	14.3	7.2	41	<0.1	14.2	5.9	288	1.55	8.6	0.9	1.7	3.5	29	0.1	0.6	0.1	21	0.36	0.051
1548576	Soil	0.5	11.5	5.9	33	<0.1	12.3	4.7	137	1.32	8.5	0.8	0.8	3.9	15	<0.1	0.6	0.1	19	0.16	0.046
1548592	Soil	0.4	14.2	7.0	37	0.2	13.9	6.8	270	1.42	7.4	2.2	2.6	2.1	44	<0.1	0.5	0.1	23	0.72	0.052
1548586	Soil	0.8	14.4	3.3	19	<0.1	12.2	7.0	1286	0.94	5.2	1.1	1.7	0.4	149	0.3	0.5	<0.1	9	2.67	0.060
1545695	Soil	0.6	13.2	8.5	37	<0.1	15.4	6.2	167	1.72	11.9	0.7	2.2	4.8	5	<0.1	0.7	0.1	22	0.04	0.018
1548583	Soil	0.5	12.2	6.2	32	<0.1	13.8	5.7	252	1.28	10.0	0.6	2.6	3.7	15	<0.1	0.7	<0.1	16	0.18	0.055
1548607	Soil	0.5	11.2	6.2	35	0.1	11.1	4.5	133	1.33	7.0	0.8	1.3	3.0	15	<0.1	0.4	0.1	24	0.22	0.038
1545686	Soil	0.6	14.4	8.1	39	<0.1	15.6	9.2	379	1.72	13.3	0.4	18.1	3.7	6	<0.1	0.8	0.1	19	0.06	0.060
1545706	Soil	0.9	10.6	9.0	37	<0.1	14.1	5.9	168	1.80	14.0	0.4	29.2	3.9	5	<0.1	0.9	0.1	23	0.04	0.030
1545702	Soil	0.6	18.8	7.3	35	<0.1	14.3	5.2	184	1.52	12.6	1.0	116.6	3.9	10	<0.1	0.7	0.1	20	0.12	0.042
1545696	Soil	1.0	16.2	10.8	50	<0.1	17.5	6.8	176	2.42	15.4	0.6	3.2	4.1	7	<0.1	0.9	0.2	40	0.06	0.051
1545710	Soil	1.2	14.2	11.3	61	<0.1	18.4	6.3	186	2.38	15.9	0.5	8.1	4.0	9	0.1	1.0	0.2	49	0.08	0.050
1545709	Soil	1.1	10.6	11.2	52	<0.1	14.4	5.8	198	2.46	13.2	0.4	1.2	2.8	8	<0.1	0.8	0.2	48	0.06	0.069
1545701	Soil	1.0	17.9	10.8	51	<0.1	20.6	7.1	164	2.15	16.2	0.5	1.6	4.6	7	<0.1	0.9	0.2	35	0.05	0.027
1545698	Soil	1.2	12.3	11.5	59	<0.1	18.2	7.1	175	2.36	14.6	0.5	0.5	4.0	9	<0.1	0.8	0.2	46	0.07	0.037
1545680	Soil	0.5	20.6	7.3	39	<0.1	13.9	6.3	294	1.55	11.5	0.6	2.1	3.6	9	<0.1	0.6	0.1	21	0.09	0.043
1545708	Soil	1.0	10.6	8.8	44	<0.1	15.3	4.7	175	2.09	14.4	0.4	3.4	3.6	8	<0.1	0.7	0.2	31	0.07	0.046

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Project: LIB
Report Date: September 06, 2017

CERTIFICATE OF ANALYSIS WHI17000673.1

		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
1548602	Soil		12	13	0.24	267	0.014	1	0.84	0.003	0.04	0.2	0.03	1.6	<0.1	<0.05	3	<0.5	<0.2
1548608	Soil		11	17	0.29	176	0.017	<1	1.04	0.003	0.06	0.2	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
1548160	Soil		11	11	0.23	101	0.013	<1	0.67	0.002	0.05	0.2	0.01	1.2	<0.1	<0.05	2	<0.5	<0.2
1548170	Soil		20	12	0.25	162	0.006	1	0.88	0.002	0.05	0.2	0.04	1.4	<0.1	<0.05	3	<0.5	<0.2
1548584	Soil		12	12	0.24	254	0.010	2	0.74	0.004	0.04	0.2	0.03	1.8	<0.1	<0.05	2	0.5	<0.2
1548581	Soil		14	12	0.22	147	0.013	<1	0.66	0.003	0.04	0.4	0.06	2.1	<0.1	<0.05	2	0.6	<0.2
1548579	Soil		10	11	0.21	212	0.011	<1	0.74	0.004	0.04	<0.1	0.02	1.6	<0.1	<0.05	2	0.5	<0.2
1548600	Soil		12	11	0.20	115	0.013	<1	0.65	0.003	0.04	0.2	0.02	1.7	<0.1	<0.05	2	<0.5	<0.2
1548580	Soil		16	15	0.24	184	0.011	<1	0.99	0.003	0.05	0.2	0.02	2.2	<0.1	<0.05	3	<0.5	<0.2
1548577	Soil		13	11	0.21	241	0.010	1	0.67	0.004	0.03	0.2	0.04	1.6	<0.1	<0.05	2	<0.5	<0.2
1548585	Soil		11	8	0.17	140	0.010	1	0.47	0.003	0.03	0.2	0.03	1.0	<0.1	<0.05	1	<0.5	<0.2
1548609	Soil		10	16	0.27	110	0.022	<1	1.05	0.003	0.05	0.2	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
1548578	Soil		11	11	0.21	207	0.013	2	0.63	0.003	0.03	0.3	0.03	1.7	<0.1	<0.05	2	<0.5	<0.2
1548582	Soil		12	12	0.24	209	0.015	2	0.65	0.004	0.03	0.3	0.04	1.7	<0.1	<0.05	2	<0.5	<0.2
1548576	Soil		11	11	0.22	178	0.012	1	0.65	0.003	0.03	0.1	0.02	1.7	<0.1	<0.05	2	<0.5	<0.2
1548592	Soil		11	13	0.24	368	0.010	2	0.87	0.004	0.04	0.2	0.06	1.8	<0.1	<0.05	2	<0.5	<0.2
1548586	Soil		3	6	0.18	457	0.007	4	0.36	0.005	0.02	<0.1	0.05	0.6	<0.1	0.11	<1	<0.5	<0.2
1545695	Soil		11	14	0.24	114	0.019	<1	0.94	0.002	0.04	0.2	0.02	1.9	<0.1	<0.05	2	<0.5	<0.2
1548583	Soil		12	9	0.21	166	0.013	1	0.49	0.004	0.02	0.1	0.02	1.5	<0.1	<0.05	1	<0.5	<0.2
1548607	Soil		11	13	0.22	249	0.012	1	0.79	0.003	0.03	0.2	0.03	1.7	<0.1	<0.05	2	<0.5	<0.2
1545686	Soil		10	11	0.22	78	0.015	1	0.67	0.002	0.03	0.2	0.02	1.2	<0.1	<0.05	2	0.5	<0.2
1545706	Soil		10	13	0.22	102	0.017	1	0.75	0.002	0.03	0.3	0.02	1.3	<0.1	<0.05	2	<0.5	<0.2
1545702	Soil		12	11	0.21	145	0.015	<1	0.65	0.002	0.04	0.3	0.04	1.6	<0.1	<0.05	2	<0.5	<0.2
1545696	Soil		10	20	0.28	196	0.020	1	1.24	0.003	0.05	0.2	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
1545710	Soil		11	21	0.30	217	0.019	<1	1.34	0.003	0.07	0.2	0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
1545709	Soil		10	20	0.28	184	0.019	1	1.19	0.003	0.05	0.3	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2
1545701	Soil		11	18	0.27	172	0.021	2	1.18	0.003	0.05	0.3	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
1545698	Soil		11	21	0.31	203	0.021	2	1.36	0.003	0.06	0.2	0.02	2.1	0.1	<0.05	4	<0.5	<0.2
1545680	Soil		12	12	0.23	240	0.015	<1	0.70	0.003	0.03	0.2	0.03	2.2	<0.1	<0.05	2	<0.5	<0.2
1545708	Soil		11	16	0.24	125	0.018	<1	0.96	0.002	0.05	0.3	0.01	1.5	<0.1	<0.05	3	<0.5	<0.2

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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
1545700	Soil	0.5	21.2	8.3	37	<0.1	14.3	5.3	143	1.60	12.0	1.0	2.7	5.2	5	<0.1	0.8	0.1	21	0.04	0.020
1545699	Soil	0.6	22.2	8.1	38	<0.1	14.7	5.1	133	1.63	11.7	0.9	5.2	5.5	5	<0.1	0.8	0.1	22	0.04	0.017
1545705	Soil	0.5	23.8	7.4	37	<0.1	12.6	6.0	179	1.52	11.6	0.9	2.6	4.5	6	<0.1	0.7	0.1	21	0.05	0.023
1545694	Soil	0.6	18.5	9.7	42	<0.1	16.9	6.8	192	1.83	10.7	1.1	2.0	5.9	7	<0.1	0.7	0.2	24	0.05	0.018
1545703	Soil	1.0	17.2	12.9	52	<0.1	19.5	7.3	149	2.16	11.9	0.6	2.5	5.8	7	<0.1	0.8	0.2	32	0.04	0.022
1545676	Soil	0.6	20.8	12.1	41	<0.1	17.7	6.9	228	1.89	7.7	1.5	2.5	7.1	28	<0.1	0.5	0.2	19	0.33	0.034
1545692	Soil	0.5	18.5	9.9	38	<0.1	15.5	7.2	178	1.90	8.9	1.0	3.5	5.5	6	<0.1	0.6	0.1	20	0.05	0.020
1545687	Soil	0.6	16.5	7.1	39	<0.1	14.1	5.3	168	1.52	9.1	0.6	22.1	3.5	10	<0.1	0.6	0.1	20	0.11	0.042
1545684	Soil	0.5	8.5	7.6	33	<0.1	10.8	7.8	261	1.54	11.0	0.4	1.0	3.6	7	<0.1	0.6	0.1	17	0.07	0.055
1545662	Soil	0.6	11.3	8.0	34	<0.1	11.5	5.0	137	1.50	9.1	0.8	1.4	3.5	8	<0.1	0.6	0.1	23	0.08	0.026
1545693	Soil	0.6	16.7	8.2	35	<0.1	13.8	6.8	165	1.71	12.6	0.5	8.1	4.1	7	<0.1	0.7	0.2	20	0.07	0.032
1545682	Soil	0.5	16.3	7.8	35	<0.1	16.1	6.4	170	1.61	11.7	0.8	2.2	3.1	8	<0.1	0.6	0.1	21	0.09	0.042
1545689	Soil	0.5	14.9	7.5	36	<0.1	14.7	6.8	187	1.66	10.9	0.7	1.7	3.7	10	<0.1	0.7	0.1	20	0.10	0.045
1545677	Soil	0.5	20.5	9.9	39	<0.1	16.8	7.1	283	1.89	6.9	1.2	1.0	5.8	43	<0.1	0.4	0.2	20	0.49	0.038
1547952	Soil	0.7	29.3	9.7	46	<0.1	23.0	9.0	348	1.97	11.7	0.9	54.4	5.4	9	<0.1	1.0	0.2	20	0.07	0.030
1545690	Soil	1.7	17.3	13.9	58	<0.1	19.8	8.6	299	2.66	14.8	0.6	1.2	4.2	13	<0.1	1.0	0.2	51	0.09	0.052
1545688	Soil	0.6	14.9	7.3	35	<0.1	13.1	6.1	220	1.47	11.8	0.9	2.3	4.1	10	<0.1	0.7	0.1	18	0.11	0.046
1545691	Soil	0.6	24.3	11.6	41	<0.1	17.7	7.4	373	1.88	11.7	1.4	3.5	6.6	8	<0.1	0.8	0.1	25	0.06	0.022
1547932	Soil	0.9	23.9	8.7	46	<0.1	18.5	7.6	165	1.90	14.0	0.9	3.7	5.5	6	<0.1	1.2	0.2	17	0.05	0.029
1545697	Soil	1.2	10.8	13.9	66	<0.1	15.2	7.4	278	2.29	11.7	0.5	1.5	3.1	9	0.2	0.8	0.2	48	0.06	0.053
1545678	Soil	0.7	14.2	8.5	38	<0.1	14.9	5.8	116	1.77	13.2	0.6	2.1	3.4	9	<0.1	0.7	0.2	28	0.11	0.038
1545711	Soil	1.5	13.7	10.6	69	<0.1	20.5	7.4	200	2.40	13.4	0.5	1.3	3.5	11	0.2	1.1	0.2	46	0.09	0.039
1547927	Soil	1.0	24.0	10.9	53	0.1	19.7	8.0	188	2.14	12.9	1.2	2.2	5.3	10	<0.1	1.1	0.2	29	0.09	0.039
1547948	Soil	0.4	17.8	6.2	37	<0.1	14.4	8.3	329	1.43	12.9	0.6	6.8	4.4	8	<0.1	0.7	0.1	18	0.10	0.055
1547946	Soil	0.5	23.0	7.5	42	<0.1	17.4	7.5	221	1.74	9.0	0.8	1.9	4.3	8	<0.1	0.6	0.1	21	0.09	0.044
1547945	Soil	0.7	14.1	8.6	43	<0.1	15.7	7.7	250	1.80	11.8	0.9	2.4	3.8	9	<0.1	0.7	0.1	23	0.10	0.054
1547931	Soil	0.7	23.4	9.5	52	<0.1	18.8	8.9	274	2.09	10.0	1.2	2.4	5.4	9	<0.1	0.9	0.2	25	0.08	0.032
1547928	Soil	0.7	22.2	9.4	47	<0.1	19.0	8.7	267	1.98	12.8	1.1	9.1	6.2	8	<0.1	1.1	0.2	24	0.07	0.035
1547949	Soil	0.5	20.6	8.3	45	<0.1	15.7	7.8	320	1.74	10.7	1.2	3.5	3.8	11	<0.1	0.6	0.1	27	0.11	0.044
1547950	Soil	0.6	17.4	7.7	41	<0.1	14.2	7.2	236	1.69	9.8	1.2	7.7	3.8	10	<0.1	0.6	0.2	27	0.11	0.043

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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
1545700	Soil		15	12	0.22	87	0.018	1	0.71	0.002	0.04	0.2	0.03	2.3	<0.1	<0.05	2	<0.5	<0.2
1545699	Soil		14	13	0.24	93	0.018	<1	0.78	0.002	0.03	0.2	0.03	2.1	<0.1	<0.05	2	<0.5	<0.2
1545705	Soil		15	12	0.22	135	0.019	<1	0.67	0.002	0.03	0.2	0.05	3.3	<0.1	<0.05	2	<0.5	<0.2
1545694	Soil		20	14	0.31	205	0.029	1	0.93	0.003	0.10	0.2	0.02	2.3	0.1	<0.05	3	<0.5	<0.2
1545703	Soil		15	18	0.27	188	0.016	<1	1.16	0.003	0.09	0.2	0.01	1.8	0.1	<0.05	3	<0.5	<0.2
1545676	Soil		23	12	0.29	156	0.008	<1	0.83	0.003	0.07	0.1	0.03	1.8	<0.1	<0.05	2	<0.5	<0.2
1545692	Soil		18	13	0.31	131	0.023	<1	0.94	0.002	0.10	0.1	0.01	2.2	0.1	<0.05	2	<0.5	<0.2
1545687	Soil		13	12	0.24	181	0.013	<1	0.70	0.003	0.03	0.2	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
1545684	Soil		10	10	0.21	65	0.015	<1	0.61	0.002	0.03	0.2	0.01	1.0	<0.1	<0.05	2	<0.5	<0.2
1545662	Soil		10	12	0.20	180	0.014	<1	0.73	0.003	0.03	0.2	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
1545693	Soil		10	12	0.23	110	0.016	<1	0.69	0.002	0.03	0.2	0.03	1.4	<0.1	<0.05	2	<0.5	<0.2
1545682	Soil		12	12	0.23	150	0.015	<1	0.73	0.003	0.03	0.2	0.02	1.9	<0.1	<0.05	2	<0.5	<0.2
1545689	Soil		12	12	0.23	177	0.013	<1	0.70	0.002	0.03	0.2	<0.01	1.7	<0.1	<0.05	2	<0.5	<0.2
1545677	Soil		20	14	0.33	194	0.009	<1	0.92	0.003	0.06	0.1	0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
1547952	Soil		21	13	0.24	389	0.012	<1	0.74	0.003	0.03	0.2	0.11	2.2	<0.1	<0.05	2	<0.5	<0.2
1545690	Soil		11	26	0.32	328	0.019	<1	1.72	0.004	0.06	0.2	0.02	2.2	0.1	<0.05	4	<0.5	<0.2
1545688	Soil		13	11	0.22	162	0.013	<1	0.64	0.002	0.03	0.2	0.01	2.0	<0.1	<0.05	2	<0.5	<0.2
1545691	Soil		24	15	0.29	179	0.025	<1	0.95	0.003	0.09	0.2	0.02	2.8	0.1	<0.05	3	<0.5	<0.2
1547932	Soil		19	11	0.19	96	0.008	<1	0.58	0.002	0.03	0.3	0.04	1.4	<0.1	<0.05	2	<0.5	<0.2
1545697	Soil		14	19	0.24	191	0.017	1	1.10	0.003	0.06	0.2	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2
1545678	Soil		11	15	0.26	116	0.016	1	0.89	0.003	0.04	0.2	0.02	1.7	<0.1	<0.05	2	<0.5	<0.2
1545711	Soil		11	23	0.36	254	0.021	1	1.28	0.005	0.07	0.2	0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
1547927	Soil		22	17	0.28	302	0.013	<1	0.88	0.004	0.04	0.2	0.09	2.6	<0.1	<0.05	3	<0.5	<0.2
1547948	Soil		13	11	0.21	79	0.014	1	0.58	0.002	0.02	0.2	0.02	1.7	<0.1	0.06	1	<0.5	<0.2
1547946	Soil		16	12	0.24	198	0.012	<1	0.63	0.003	0.03	0.1	0.07	2.1	<0.1	<0.05	2	<0.5	<0.2
1547945	Soil		14	15	0.26	146	0.016	<1	0.73	0.003	0.03	0.2	0.02	2.4	<0.1	<0.05	2	<0.5	<0.2
1547931	Soil		26	15	0.25	214	0.012	<1	0.81	0.003	0.03	0.1	0.05	2.1	<0.1	<0.05	2	<0.5	<0.2
1547928	Soil		21	14	0.24	213	0.012	<1	0.74	0.003	0.03	0.2	0.07	2.0	<0.1	<0.05	2	<0.5	<0.2
1547949	Soil		16	16	0.28	326	0.018	<1	0.85	0.004	0.03	0.2	0.04	3.2	<0.1	<0.05	2	<0.5	<0.2
1547950	Soil		15	15	0.27	273	0.018	<1	0.79	0.003	0.03	0.2	0.04	3.0	<0.1	<0.05	2	<0.5	<0.2

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Client: **Ryanwood Exploration Inc.**
Box 213
Dawson City Yukon Y0B 1G0 Canada

Project: LIB
Report Date: September 06, 2017

CERTIFICATE OF ANALYSIS WHI17000673.1

		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
1547953	Soil		0.5	20.0	6.3	36	<0.1	16.7	7.5	260	1.48	11.2	0.5	2.0	3.8	9	<0.1	0.6	0.1	21	0.10	0.052
1547930	Soil		1.0	40.1	14.0	65	<0.1	30.0	11.9	306	2.68	17.9	1.4	20.5	7.3	14	<0.1	1.9	0.3	24	0.10	0.037
1547926	Soil		0.7	21.0	9.3	45	<0.1	17.4	6.0	150	1.59	9.2	1.0	2.1	7.4	11	<0.1	1.1	0.1	20	0.09	0.030
1547947	Soil		0.6	30.0	8.8	48	<0.1	16.6	7.9	255	1.85	12.8	0.7	2.5	4.1	10	<0.1	0.8	0.1	27	0.11	0.054
1547951	Soil		0.5	19.9	7.2	35	<0.1	14.8	6.4	194	1.50	12.8	0.7	1.7	4.0	8	<0.1	0.7	0.1	20	0.10	0.051
1547934	Soil		0.6	17.6	7.9	41	<0.1	15.3	6.2	164	1.66	9.6	0.8	21.1	2.7	10	<0.1	0.7	0.1	24	0.11	0.041
1547935	Soil		1.1	25.2	9.4	59	<0.1	21.6	7.7	221	2.11	11.5	1.1	13.4	6.0	8	0.1	1.3	0.2	23	0.06	0.032
1547954	Soil		0.9	30.1	10.0	59	<0.1	23.8	9.8	348	2.21	12.5	1.1	9.3	5.1	8	<0.1	0.8	0.2	24	0.07	0.037
1539179	Soil		0.5	21.1	5.6	40	<0.1	14.4	5.8	234	1.42	7.3	0.8	1.9	3.0	15	0.1	0.5	0.1	24	0.19	0.056
1539176	Soil		0.5	11.8	5.9	44	<0.1	13.9	6.1	167	1.64	8.4	0.5	1.0	3.2	11	<0.1	0.6	<0.1	24	0.13	0.054
1547933	Soil		0.8	20.0	9.5	48	<0.1	17.3	7.3	197	1.86	14.0	1.0	16.5	5.1	9	0.1	1.4	0.1	22	0.07	0.035
1547929	Soil		0.4	19.4	7.4	35	<0.1	14.0	5.5	121	1.45	16.3	0.7	4.3	4.4	9	<0.1	0.8	0.1	20	0.11	0.043
1539180	Soil		0.8	9.4	6.9	40	0.1	11.5	5.2	143	1.63	10.1	0.6	8.8	2.1	14	<0.1	0.6	0.1	29	0.15	0.061
1539191	Soil		0.8	20.4	8.6	50	<0.1	18.1	6.6	179	1.79	9.8	0.8	2.7	4.1	16	0.2	0.7	0.1	26	0.19	0.058
1539189	Soil		1.0	32.2	13.4	72	<0.1	28.2	10.5	375	2.55	13.3	1.1	18.7	4.8	16	0.1	1.1	0.2	30	0.19	0.051
1539204	Soil		1.1	23.2	10.3	44	0.1	15.4	7.2	282	2.00	10.6	1.6	1.8	3.7	11	<0.1	0.8	0.2	41	0.10	0.048
1539177	Soil		0.6	26.1	9.0	53	<0.1	18.2	8.5	263	2.00	12.0	1.1	11.1	4.5	12	<0.1	0.8	0.1	33	0.12	0.056
1539185	Soil		0.6	24.0	9.4	48	<0.1	20.3	7.9	212	2.01	11.3	1.6	3.4	5.9	8	<0.1	0.8	0.1	29	0.07	0.032
1539190	Soil		1.2	39.6	15.7	80	0.1	33.9	12.7	404	3.18	14.7	1.4	2.2	6.9	20	0.2	1.2	0.2	29	0.24	0.053
1539188	Soil		0.9	31.6	13.4	64	<0.1	28.7	12.2	435	2.76	11.9	1.3	4.2	9.1	10	<0.1	0.9	0.3	22	0.08	0.033
1539205	Soil		0.7	15.9	9.2	45	<0.1	16.9	8.6	275	1.97	12.7	1.0	1.3	5.2	9	<0.1	0.9	0.2	24	0.10	0.056
1539178	Soil		0.4	11.1	7.7	29	<0.1	9.3	3.7	96	1.20	6.7	0.6	1.5	2.6	9	<0.1	0.4	0.1	24	0.10	0.033
1539194	Soil		0.4	14.8	7.7	47	<0.1	13.5	4.4	75	1.23	5.6	0.9	2.6	3.7	18	0.1	0.5	0.1	26	0.22	0.052
1539192	Soil		0.6	5.2	5.0	42	<0.1	10.6	3.7	124	1.51	5.7	0.4	0.6	2.9	16	<0.1	0.5	<0.1	24	0.19	0.060
1539187	Soil		0.8	13.4	8.3	39	<0.1	13.0	5.1	133	1.81	8.2	0.7	57.1	4.0	8	<0.1	0.5	0.2	25	0.08	0.047
1539186	Soil		0.9	13.9	8.8	41	<0.1	13.9	4.9	128	1.90	8.7	0.8	1.5	2.2	9	<0.1	0.5	0.2	29	0.09	0.045
1539210	Soil		1.1	31.9	10.8	62	<0.1	25.3	11.7	222	3.08	7.7	1.7	31.9	10.5	7	<0.1	0.8	0.3	26	0.03	0.021
1539193	Soil		0.7	8.7	5.4	42	<0.1	12.1	5.2	131	1.47	6.8	0.8	0.6	2.9	20	<0.1	0.6	0.1	23	0.26	0.065
1539181	Soil		0.5	13.5	6.8	40	<0.1	14.2	5.2	151	1.54	8.4	0.7	2.0	3.0	11	<0.1	0.6	0.1	27	0.12	0.051
1539198	Soil		0.9	22.3	11.4	61	<0.1	25.8	10.7	237	2.74	10.9	1.5	1.0	6.7	7	<0.1	0.7	0.2	24	0.04	0.033

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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
1547953	Soil	12	12	0.23	125	0.016	<1	0.64	0.003	0.03	0.2	0.03	1.6	<0.1	<0.05	2	<0.5	<0.2
1547930	Soil	34	15	0.26	397	0.009	<1	0.85	0.003	0.05	0.2	0.13	2.6	<0.1	<0.05	3	<0.5	<0.2
1547926	Soil	22	11	0.21	225	0.011	<1	0.57	0.003	0.03	0.1	0.10	1.9	<0.1	0.05	2	<0.5	<0.2
1547947	Soil	15	15	0.27	243	0.017	<1	0.75	0.003	0.03	0.2	0.05	2.8	<0.1	<0.05	2	<0.5	<0.2
1547951	Soil	13	12	0.22	139	0.013	1	0.61	0.002	0.03	0.2	0.02	1.8	<0.1	<0.05	2	<0.5	<0.2
1547934	Soil	16	13	0.23	201	0.012	<1	0.69	0.003	0.03	0.2	0.05	1.8	<0.1	<0.05	2	<0.5	<0.2
1547935	Soil	23	13	0.22	147	0.010	<1	0.67	0.002	0.03	0.2	0.04	1.9	<0.1	<0.05	2	<0.5	<0.2
1547954	Soil	21	14	0.25	251	0.012	<1	0.77	0.003	0.03	0.2	0.08	2.2	<0.1	<0.05	2	<0.5	<0.2
1539179	Soil	14	14	0.26	253	0.013	<1	0.72	0.004	0.03	0.1	0.03	2.0	<0.1	0.10	2	<0.5	<0.2
1539176	Soil	11	14	0.26	110	0.014	<1	0.76	0.003	0.03	0.2	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1547933	Soil	20	13	0.21	166	0.011	<1	0.66	0.002	0.03	0.2	0.05	1.8	<0.1	<0.05	2	<0.5	<0.2
1547929	Soil	14	12	0.21	166	0.014	<1	0.57	0.003	0.03	0.3	0.04	2.0	<0.1	<0.05	2	<0.5	<0.2
1539180	Soil	12	14	0.24	237	0.012	<1	0.80	0.003	0.03	0.2	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1539191	Soil	16	14	0.27	255	0.012	<1	0.76	0.004	0.03	0.2	0.03	1.9	<0.1	<0.05	2	0.5	<0.2
1539189	Soil	25	17	0.33	252	0.012	<1	0.94	0.005	0.07	0.2	0.05	2.5	<0.1	<0.05	3	0.6	<0.2
1539204	Soil	18	22	0.31	354	0.019	1	1.18	0.004	0.03	0.2	0.05	4.1	<0.1	<0.05	3	0.6	<0.2
1539177	Soil	16	18	0.31	218	0.020	<1	0.98	0.004	0.03	0.2	0.04	3.0	<0.1	<0.05	3	<0.5	<0.2
1539185	Soil	15	17	0.30	145	0.025	<1	0.98	0.004	0.04	0.2	0.03	2.5	<0.1	<0.05	2	<0.5	<0.2
1539190	Soil	31	18	0.34	289	0.010	<1	0.97	0.005	0.08	0.2	0.08	2.7	<0.1	<0.05	3	<0.5	<0.2
1539188	Soil	31	14	0.32	203	0.010	<1	0.84	0.003	0.05	0.2	0.05	2.2	<0.1	<0.05	3	<0.5	<0.2
1539205	Soil	15	15	0.28	106	0.016	<1	0.87	0.003	0.04	0.2	0.01	1.8	<0.1	<0.05	2	<0.5	<0.2
1539178	Soil	13	13	0.21	113	0.014	<1	0.79	0.003	0.03	0.2	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1539194	Soil	15	13	0.24	319	0.013	<1	0.68	0.004	0.03	0.1	0.04	1.9	<0.1	<0.05	2	<0.5	<0.2
1539192	Soil	11	11	0.22	123	0.013	<1	0.57	0.003	0.03	0.2	<0.01	1.1	<0.1	<0.05	2	<0.5	<0.2
1539187	Soil	17	13	0.24	135	0.013	<1	0.74	0.003	0.03	0.2	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
1539186	Soil	15	16	0.27	185	0.013	<1	0.89	0.003	0.03	0.2	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
1539210	Soil	32	15	0.21	188	0.012	<1	0.88	0.003	0.03	0.2	0.07	3.0	<0.1	<0.05	3	<0.5	<0.2
1539193	Soil	10	11	0.24	138	0.012	<1	0.59	0.003	0.03	0.2	0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
1539181	Soil	13	14	0.26	190	0.016	1	0.71	0.003	0.03	0.1	0.02	1.9	<0.1	<0.05	2	<0.5	<0.2
1539198	Soil	23	14	0.22	142	0.010	<1	0.87	0.003	0.03	0.1	0.05	1.8	<0.1	<0.05	2	<0.5	<0.2

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		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
1539208	Soil		0.6	24.3	10.4	57	<0.1	16.3	7.5	218	2.65	9.1	1.2	4.4	10.3	7	<0.1	1.5	0.3	18	0.03	0.025
1539199	Soil		0.9	10.3	8.9	41	<0.1	13.1	5.3	165	2.27	13.1	0.5	1.8	4.1	6	<0.1	0.7	0.2	28	0.04	0.049
1539182	Soil		0.6	18.2	7.6	41	<0.1	15.1	5.2	161	1.66	8.3	1.0	1.1	2.7	12	<0.1	0.6	0.1	31	0.13	0.049
1539196	Soil		1.0	28.2	11.0	58	<0.1	22.7	9.8	283	2.44	13.3	1.6	2.8	7.2	9	<0.1	1.0	0.2	32	0.06	0.030
1539206	Soil		0.7	28.9	9.9	50	<0.1	22.3	9.4	247	2.21	14.1	1.2	2.1	8.0	7	<0.1	1.1	0.2	19	0.04	0.030
1539212	Soil		0.6	24.9	10.8	44	<0.1	20.8	8.6	224	2.06	11.2	1.6	3.1	6.4	16	<0.1	0.8	0.3	23	0.19	0.045
1539195	Soil		1.0	35.5	11.7	73	<0.1	29.4	11.7	269	2.82	9.2	1.7	2.4	9.7	11	0.1	0.8	0.3	22	0.09	0.039
1539209	Soil		1.4	14.3	12.2	48	<0.1	21.8	9.7	218	2.82	15.6	0.5	1.4	4.5	7	0.1	0.9	0.2	54	0.06	0.043
1539184	Soil		0.9	25.4	8.7	52	<0.1	18.5	6.8	253	1.94	10.1	1.2	2.6	4.9	9	<0.1	0.7	0.2	30	0.09	0.041
1539211	Soil		0.9	24.0	8.6	52	<0.1	26.6	8.8	175	2.24	13.1	0.8	1.8	7.6	7	0.2	1.1	0.2	19	0.04	0.029
1547956	Soil		0.6	33.0	7.8	44	<0.1	16.9	7.2	242	1.79	11.7	0.9	2.5	3.8	9	<0.1	0.7	0.1	23	0.10	0.052
1547957	Soil		0.6	20.4	7.2	40	<0.1	13.7	5.9	152	1.75	9.8	1.0	1.3	3.2	10	<0.1	0.6	0.1	28	0.10	0.043
1539200	Soil		0.9	19.8	10.3	51	<0.1	16.6	7.9	235	2.88	10.3	1.1	3.5	8.4	6	<0.1	0.7	0.3	28	0.04	0.037
1539197	Soil		0.5	9.5	7.7	23	<0.1	7.7	2.8	78	1.39	6.8	0.7	1.0	0.5	7	<0.1	0.4	0.1	27	0.05	0.037
1547960	Soil		0.9	36.9	11.7	69	<0.1	28.0	12.3	283	2.87	6.9	2.0	3.4	11.7	11	<0.1	0.7	0.3	19	0.06	0.030
1547958	Soil		0.6	19.4	8.2	43	<0.1	15.7	7.7	272	1.79	12.2	1.0	2.4	3.9	9	<0.1	0.8	0.1	22	0.09	0.048
1539202	Soil		0.9	25.7	8.3	53	<0.1	21.0	9.2	192	2.42	7.3	1.4	2.5	9.1	5	<0.1	0.6	0.2	21	0.02	0.020
1539201	Soil		0.6	26.4	8.1	50	<0.1	22.6	10.0	290	2.24	17.1	1.0	9.7	7.6	6	<0.1	0.6	0.2	20	0.04	0.024
1539183	Soil		0.7	20.8	7.4	40	<0.1	15.0	7.6	321	1.73	10.0	1.1	1.8	3.5	9	<0.1	0.7	0.1	27	0.10	0.049
1547961	Soil		0.5	30.2	8.6	43	<0.1	17.0	7.5	171	1.98	14.2	1.4	2.5	5.9	5	<0.1	0.8	0.1	25	0.04	0.019
1539207	Soil		0.9	25.0	11.2	59	<0.1	17.8	8.1	185	3.23	8.0	1.7	3.2	12.5	11	<0.1	0.9	0.4	28	0.04	0.029
1547955	Soil		0.9	33.0	10.4	60	<0.1	28.9	12.9	326	2.68	16.7	1.8	13.4	8.3	8	<0.1	0.7	0.3	15	0.06	0.040
1547940	Soil		0.7	22.6	8.0	45	<0.1	17.6	8.5	236	1.85	9.8	1.0	2.0	5.5	7	<0.1	0.7	0.1	24	0.05	0.029
1547962	Soil		1.4	25.4	9.8	74	<0.1	25.5	11.2	392	2.28	12.8	1.1	1.7	5.0	11	0.2	1.1	0.2	33	0.11	0.063
1539203	Soil		1.1	42.3	11.9	79	<0.1	23.8	9.7	292	3.72	6.0	1.7	2.7	12.3	11	<0.1	0.7	0.3	24	0.04	0.031
1547959	Soil		1.1	29.7	8.8	73	<0.1	24.0	9.0	216	2.19	13.5	1.4	2.8	6.9	9	<0.1	0.8	0.2	26	0.06	0.027
1547944	Soil		0.7	22.5	8.7	42	<0.1	16.6	8.0	221	2.01	12.6	0.8	2.0	4.6	5	<0.1	0.7	0.2	28	0.04	0.020
1547938	Soil		0.5	20.5	5.9	36	<0.1	15.8	6.4	220	1.53	9.1	0.8	8.9	4.2	9	<0.1	0.6	0.1	19	0.10	0.046
1547943	Soil		0.5	19.9	5.8	37	<0.1	16.6	6.2	234	1.56	8.7	0.8	2.0	3.9	10	<0.1	0.5	0.1	21	0.11	0.050
1547939	Soil		0.8	10.9	7.3	33	<0.1	11.6	5.5	129	1.77	9.5	0.6	1.2	3.1	6	<0.1	0.5	0.1	27	0.06	0.032

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Project: LIB
Report Date: September 06, 2017

CERTIFICATE OF ANALYSIS WHI17000673.1

	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
1539208	Soil	34	16	0.48	157	0.006	<1	1.09	0.002	0.04	<0.1	0.02	1.6	<0.1	<0.05	3	<0.5	<0.2
1539199	Soil	12	15	0.26	90	0.017	<1	0.90	0.002	0.04	0.2	0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
1539182	Soil	16	16	0.28	326	0.016	<1	0.82	0.004	0.03	0.2	0.03	2.3	<0.1	<0.05	2	<0.5	<0.2
1539196	Soil	22	17	0.28	254	0.019	<1	0.95	0.005	0.04	0.2	0.10	3.2	<0.1	<0.05	3	<0.5	<0.2
1539206	Soil	24	14	0.31	141	0.011	<1	0.85	0.002	0.04	<0.1	0.03	2.3	<0.1	<0.05	2	<0.5	<0.2
1539212	Soil	23	14	0.30	175	0.011	<1	0.79	0.003	0.04	0.1	0.03	2.1	0.1	0.06	2	<0.5	<0.2
1539195	Soil	32	15	0.35	244	0.007	<1	0.92	0.003	0.04	0.1	0.04	1.9	<0.1	0.05	3	<0.5	<0.2
1539209	Soil	13	26	0.35	174	0.025	<1	1.69	0.005	0.04	0.2	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
1539184	Soil	19	17	0.29	218	0.016	1	0.97	0.003	0.04	0.2	0.04	2.8	<0.1	<0.05	3	0.6	<0.2
1539211	Soil	21	12	0.19	82	0.009	<1	0.67	0.002	0.04	0.1	0.05	1.6	<0.1	<0.05	2	<0.5	<0.2
1547956	Soil	17	13	0.26	159	0.015	<1	0.71	0.003	0.03	0.2	0.07	3.1	<0.1	<0.05	2	<0.5	<0.2
1547957	Soil	14	15	0.27	210	0.016	<1	0.83	0.003	0.03	0.1	0.03	2.6	<0.1	0.08	2	<0.5	<0.2
1539200	Soil	23	17	0.30	136	0.016	<1	1.02	0.003	0.03	0.1	0.02	2.2	<0.1	<0.05	3	<0.5	<0.2
1539197	Soil	15	12	0.15	168	0.012	<1	0.70	0.003	0.03	0.1	0.03	0.9	<0.1	<0.05	3	<0.5	<0.2
1547960	Soil	40	16	0.40	201	0.006	<1	0.97	0.002	0.04	<0.1	0.04	2.3	<0.1	0.07	3	<0.5	<0.2
1547958	Soil	16	14	0.25	133	0.015	<1	0.71	0.003	0.03	0.2	0.06	2.9	<0.1	0.06	2	<0.5	<0.2
1539202	Soil	29	15	0.31	131	0.010	<1	0.86	0.002	0.03	0.2	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
1539201	Soil	24	15	0.34	148	0.012	<1	0.90	0.003	0.03	0.1	0.03	2.2	<0.1	<0.05	3	<0.5	<0.2
1539183	Soil	16	15	0.28	198	0.018	<1	0.85	0.003	0.03	0.2	0.03	3.2	<0.1	<0.05	2	<0.5	<0.2
1547961	Soil	15	16	0.27	110	0.018	<1	0.82	0.003	0.03	0.2	0.08	3.0	<0.1	<0.05	2	0.5	<0.2
1539207	Soil	45	22	0.48	225	0.012	<1	1.38	0.003	0.04	0.1	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
1547955	Soil	28	10	0.20	152	0.007	<1	0.63	0.002	0.03	0.2	0.04	1.8	<0.1	<0.05	2	<0.5	<0.2
1547940	Soil	19	15	0.26	250	0.015	<1	0.83	0.003	0.03	0.2	0.05	2.8	<0.1	<0.05	2	<0.5	<0.2
1547962	Soil	13	19	0.34	164	0.017	<1	1.07	0.004	0.05	0.2	0.02	2.8	<0.1	<0.05	3	<0.5	<0.2
1539203	Soil	39	20	0.47	281	0.009	<1	1.25	0.005	0.04	<0.1	0.02	2.6	<0.1	0.06	4	<0.5	<0.2
1547959	Soil	25	14	0.24	216	0.013	<1	0.87	0.003	0.04	0.2	0.11	2.9	<0.1	0.05	2	<0.5	<0.2
1547944	Soil	16	16	0.26	120	0.019	<1	0.86	0.003	0.03	0.2	0.02	2.5	<0.1	<0.05	2	<0.5	<0.2
1547938	Soil	17	12	0.21	183	0.013	<1	0.60	0.002	0.03	0.2	0.03	2.4	<0.1	<0.05	2	<0.5	<0.2
1547943	Soil	16	13	0.25	232	0.014	<1	0.67	0.003	0.03	0.2	0.03	2.1	<0.1	0.05	2	<0.5	<0.2
1547939	Soil	11	16	0.23	135	0.013	<1	0.83	0.002	0.03	0.2	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2

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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
1547941	Soil	0.5	17.0	5.6	33	<0.1	13.3	5.5	150	1.34	8.0	0.5	1.6	3.9	8	<0.1	0.6	0.1	14	0.08	0.044
1547936	Soil	1.1	30.8	9.6	69	<0.1	25.6	8.9	298	2.13	11.9	1.2	3.1	7.7	14	0.2	1.6	0.2	22	0.11	0.040
1547937	Soil	0.6	32.0	9.8	52	0.2	20.0	7.2	175	1.68	9.9	1.1	3.4	4.7	14	<0.1	0.8	0.2	31	0.14	0.054
1547942	Soil	0.5	15.8	6.4	34	<0.1	12.9	5.2	157	1.40	9.1	0.6	2.5	3.3	10	<0.1	0.6	0.1	19	0.10	0.047

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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
1547941	Soil		12	9	0.18	96	0.010	<1	0.50	0.002	0.02	0.2	0.01	1.2	<0.1	<0.05	1	<0.5	<0.2
1547936	Soil		24	11	0.24	184	0.012	<1	0.58	0.003	0.03	0.2	0.05	1.8	<0.1	<0.05	2	<0.5	<0.2
1547937	Soil		18	18	0.33	314	0.020	1	0.93	0.004	0.03	0.2	0.08	3.4	<0.1	<0.05	3	<0.5	<0.2
1547942	Soil		12	12	0.22	174	0.013	<1	0.66	0.003	0.02	0.2	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2

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QUALITY CONTROL REPORT WHI17000673.1

	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
Pulp Duplicates																					
1548183	Soil	0.7	13.5	7.0	49	<0.1	15.5	7.1	244	1.53	10.4	0.6	38.3	4.9	10	<0.1	0.9	0.1	25	0.10	0.049
REP 1548183	QC	0.6	14.0	7.0	50	<0.1	14.9	7.5	244	1.59	9.9	0.6	4.2	4.9	11	<0.1	1.0	0.2	26	0.11	0.050
1548591	Soil	0.5	15.9	7.1	36	0.1	15.1	6.3	240	1.54	9.2	1.2	0.9	3.2	27	0.1	0.7	0.1	23	0.38	0.044
REP 1548591	QC	0.5	15.1	7.0	36	0.1	14.6	6.1	228	1.47	8.3	1.2	3.2	3.2	27	0.1	0.6	0.1	23	0.36	0.039
1545695	Soil	0.6	13.2	8.5	37	<0.1	15.4	6.2	167	1.72	11.9	0.7	2.2	4.8	5	<0.1	0.7	0.1	22	0.04	0.018
REP 1545695	QC	0.8	12.9	8.4	35	<0.1	15.2	5.9	153	1.60	11.7	0.7	4.8	4.5	5	<0.1	0.7	0.1	22	0.03	0.018
1547948	Soil	0.4	17.8	6.2	37	<0.1	14.4	8.3	329	1.43	12.9	0.6	6.8	4.4	8	<0.1	0.7	0.1	18	0.10	0.055
REP 1547948	QC	0.4	17.1	6.0	35	<0.1	14.3	8.0	317	1.38	12.3	0.6	5.0	4.2	8	<0.1	0.7	0.1	18	0.09	0.051
1539198	Soil	0.9	22.3	11.4	61	<0.1	25.8	10.7	237	2.74	10.9	1.5	1.0	6.7	7	<0.1	0.7	0.2	24	0.04	0.033
REP 1539198	QC	0.9	22.4	11.4	60	<0.1	25.3	10.6	237	2.73	10.6	1.4	1.7	6.7	7	<0.1	0.6	0.2	24	0.04	0.031
Reference Materials																					
STD DS11	Standard	14.4	157.9	145.9	356	1.7	78.2	14.3	1011	3.10	47.3	2.9	64.9	8.7	71	2.6	10.3	14.0	52	1.01	0.074
STD DS11	Standard	13.7	149.2	136.4	330	1.7	75.4	12.5	985	2.89	42.9	2.5	76.4	7.4	64	2.4	8.0	11.8	49	1.06	0.068
STD DS11	Standard	13.4	135.8	137.7	320	1.7	72.5	12.9	1004	3.00	42.7	2.6	120.3	7.7	68	2.5	8.8	12.0	47	1.03	0.071
STD DS11	Standard	13.7	160.2	137.0	337	1.7	80.3	14.0	950	3.00	43.0	2.7	93.4	8.2	72	2.9	9.9	12.7	51	1.00	0.073
STD DS11	Standard	14.8	152.6	145.6	332	1.7	80.4	14.2	1094	3.24	45.9	2.8	89.1	7.9	66	2.4	9.5	12.5	53	1.08	0.077
STD DS11	Standard	14.2	146.7	140.4	334	1.7	76.3	13.3	998	3.05	44.3	2.6	61.6	7.7	67	2.4	8.5	12.5	52	1.00	0.079
STD OXC129	Standard	1.1	29.3	6.7	43	<0.1	76.2	20.0	423	3.03	0.7	0.8	195.9	2.1	178	<0.1	<0.1	<0.1	51	0.63	0.111
STD OXC129	Standard	1.1	26.3	6.4	42	<0.1	77.0	19.7	424	3.02	0.8	0.7	201.7	1.8	185	<0.1	<0.1	<0.1	53	0.66	0.106
STD OXC129	Standard	1.1	25.9	6.2	42	<0.1	73.9	18.7	407	2.85	0.6	0.7	194.0	1.7	182	<0.1	<0.1	<0.1	48	0.62	0.099
STD OXC129	Standard	1.4	28.1	6.7	40	<0.1	78.3	20.4	417	2.98	0.6	0.8	200.7	2.0	183	<0.1	<0.1	<0.1	54	0.68	0.098
STD OXC129	Standard	1.3	27.9	6.8	43	<0.1	79.0	20.1	421	3.09	0.7	0.7	188.1	1.9	188	<0.1	<0.1	<0.1	58	0.66	0.109
STD OXC129	Standard	1.3	27.8	6.6	43	<0.1	78.8	20.3	418	3.03	0.6	0.7	176.6	1.8	188	<0.1	<0.1	<0.1	56	0.69	0.108
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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	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																		
1548183	Soil	13	14	0.22	162	0.019	2	0.73	0.003	0.05	0.2	<0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
REP 1548183	QC	14	13	0.23	163	0.019	<1	0.79	0.003	0.05	0.2	<0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
1548591	Soil	10	13	0.23	371	0.015	2	0.67	0.004	0.03	0.1	0.02	2.0	<0.1	<0.05	2	<0.5	<0.2
REP 1548591	QC	10	13	0.23	377	0.015	3	0.67	0.004	0.03	0.1	0.03	1.8	<0.1	<0.05	2	0.6	<0.2
1545695	Soil	11	14	0.24	114	0.019	<1	0.94	0.002	0.04	0.2	0.02	1.9	<0.1	<0.05	2	<0.5	<0.2
REP 1545695	QC	11	14	0.23	115	0.020	2	0.88	0.002	0.04	0.2	0.02	1.8	<0.1	<0.05	2	<0.5	<0.2
1547948	Soil	13	11	0.21	79	0.014	1	0.58	0.002	0.02	0.2	0.02	1.7	<0.1	0.06	1	<0.5	<0.2
REP 1547948	QC	13	10	0.20	77	0.013	<1	0.57	0.002	0.02	0.2	0.02	1.7	<0.1	<0.05	1	<0.5	<0.2
1539198	Soil	23	14	0.22	142	0.010	<1	0.87	0.003	0.03	0.1	0.05	1.8	<0.1	<0.05	2	<0.5	<0.2
REP 1539198	QC	22	14	0.22	137	0.009	<1	0.82	0.003	0.03	0.1	0.04	1.8	<0.1	<0.05	2	<0.5	<0.2
Reference Materials																		
STD DS11	Standard	22	60	0.80	366	0.100	7	1.10	0.067	0.39	3.2	0.24	3.2	4.9	0.25	5	2.3	4.7
STD DS11	Standard	18	58	0.81	357	0.091	8	1.09	0.070	0.39	2.7	0.25	2.9	5.0	0.27	5	2.1	4.5
STD DS11	Standard	17	55	0.81	366	0.088	7	1.08	0.069	0.38	3.0	0.28	3.0	5.0	0.24	5	2.2	4.3
STD DS11	Standard	21	59	0.84	360	0.097	6	1.08	0.073	0.38	3.0	0.24	3.3	4.9	0.26	5	1.9	4.8
STD DS11	Standard	20	61	0.85	382	0.098	7	1.19	0.072	0.40	3.2	0.25	3.5	4.9	0.35	5	2.3	4.8
STD DS11	Standard	19	60	0.86	360	0.090	6	1.16	0.073	0.39	2.9	0.25	3.5	4.9	0.37	5	2.2	4.6
STD OXC129	Standard	14	49	1.59	48	0.373	2	1.46	0.629	0.36	<0.1	<0.01	0.8	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	13	51	1.56	51	0.394	2	1.54	0.585	0.35	<0.1	<0.01	0.6	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	12	47	1.42	50	0.342	<1	1.38	0.551	0.36	<0.1	<0.01	0.7	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	14	50	1.57	51	0.386	<1	1.52	0.632	0.35	<0.1	<0.01	0.7	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	13	54	1.55	51	0.407	1	1.54	0.595	0.36	<0.1	<0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	13	53	1.53	50	0.404	<1	1.52	0.591	0.37	<0.1	<0.01	1.2	<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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MINERAL LABORATORIES
Canada

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Client: **Ryanwood Exploration Inc.**
Box 213
Dawson City Yukon Y0B 1G0 Canada

Project: LIB
Report Date: September 06, 2017

QUALITY CONTROL REPORT WHI17000673.1

		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
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	<2	<0.01	<0.001

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QUALITY CONTROL REPORT WHI17000673.1

		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

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Submitted By: Shawn Ryan
Receiving Lab: Canada-Whitehorse
Received: August 23, 2017
Report Date: September 07, 2017
Page: 1 of 12

CERTIFICATE OF ANALYSIS WHI17000674.1

CLIENT JOB INFORMATION

Project: SUM
Shipment ID: SUM-20170822-001-SOIL
P.O. Number
Number of Samples: 318

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.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	318	Dry at 60C			WHI
SS80	318	Dry at 60C sieve 100g to -80 mesh			WHI
AQ201	318	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
SHP01	318	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

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

CC: Isaac Fage
Jodie Gibson

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Production Manager

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

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Project: SUM
Report Date: September 07, 2017

CERTIFICATE OF ANALYSIS WHI17000674.1

		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
1546058	Soil		0.8	21.5	7.5	42	<0.1	20.4	6.7	198	2.01	62.1	0.7	9.1	3.9	14	<0.1	15.0	0.2	37	0.18	0.028
1546042	Soil		1.0	29.0	8.2	60	<0.1	22.2	7.6	316	2.37	33.9	0.9	5.4	4.4	11	<0.1	4.8	0.2	32	0.13	0.044
1546040	Soil		0.9	27.8	8.7	60	0.1	20.7	6.3	261	2.33	20.6	1.3	5.3	5.4	14	<0.1	11.1	0.2	33	0.17	0.031
1546037	Soil		0.8	18.6	8.2	68	0.1	17.8	9.5	290	2.24	12.1	1.3	3.2	2.3	20	0.2	1.0	0.2	43	0.26	0.101
1546060	Soil		0.7	19.7	8.2	46	<0.1	22.7	9.0	262	2.30	23.3	0.8	5.2	4.4	18	<0.1	3.6	0.2	46	0.24	0.026
1546044	Soil		0.7	23.6	7.6	54	<0.1	21.0	7.1	257	2.17	48.4	0.8	10.1	3.9	22	0.1	3.4	0.2	43	0.24	0.067
1546039	Soil		1.0	30.2	9.7	56	0.2	24.5	7.8	361	2.38	28.2	1.2	5.7	4.2	21	<0.1	4.6	0.2	42	0.24	0.051
1546035	Soil		0.9	32.1	11.3	64	0.2	23.9	8.2	324	2.42	51.2	1.0	6.5	4.9	21	<0.1	4.4	0.2	34	0.24	0.054
1546057	Soil		1.1	22.1	9.1	45	0.2	20.5	7.4	259	2.04	45.7	0.7	7.3	4.2	13	<0.1	8.6	0.2	40	0.14	0.033
1546046	Soil		0.8	20.4	9.4	31	<0.1	12.1	4.4	127	1.52	87.9	0.6	24.1	4.0	10	<0.1	13.2	0.2	28	0.05	0.017
1546041	Soil		0.9	50.0	8.4	91	<0.1	39.0	8.7	368	2.51	42.8	0.9	4.7	4.4	10	0.1	8.8	0.2	23	0.10	0.041
1546036	Soil		1.0	24.4	12.1	60	0.2	22.5	9.4	303	2.51	44.1	1.2	5.5	6.2	13	0.1	3.9	0.2	47	0.12	0.034
1546059	Soil		0.7	11.9	6.1	35	<0.1	16.5	6.8	292	1.86	19.0	0.4	3.4	2.4	16	<0.1	3.8	0.1	40	0.21	0.023
1546045	Soil		0.6	18.5	8.2	29	<0.1	11.2	5.0	181	1.35	148.0	0.7	45.6	4.7	8	<0.1	17.1	0.2	18	0.03	0.016
1546043	Soil		1.5	36.5	10.1	75	0.1	29.0	7.7	269	2.71	124.2	1.5	10.5	3.0	10	0.1	13.3	0.2	26	0.09	0.046
1546038	Soil		0.9	27.6	8.6	57	<0.1	23.8	7.6	336	2.18	27.2	0.8	6.1	4.2	25	0.1	4.7	0.2	44	0.30	0.051
1546065	Soil		0.9	18.9	10.8	39	0.1	27.2	12.3	753	2.66	39.4	0.5	4.2	3.4	20	<0.1	24.1	0.2	56	0.29	0.033
1546051	Soil		1.0	23.6	9.2	48	<0.1	22.0	7.5	190	2.38	40.5	0.8	17.5	4.1	15	0.1	3.2	0.2	49	0.14	0.032
1546050	Soil		1.0	26.1	10.4	56	0.1	24.3	9.8	237	2.60	26.4	0.9	4.8	5.2	14	0.1	2.6	0.2	57	0.11	0.025
1546061	Soil		0.6	17.4	6.2	35	<0.1	22.1	7.6	213	1.96	46.4	0.5	7.9	3.6	14	<0.1	7.2	0.1	40	0.17	0.018
1546055	Soil		0.8	23.1	9.9	46	0.3	20.4	7.2	213	2.14	61.2	0.7	9.8	4.7	11	<0.1	18.1	0.2	40	0.09	0.028
1546049	Soil		1.1	27.5	10.7	56	0.1	25.3	9.8	237	2.59	23.4	1.0	4.0	5.2	12	0.1	2.2	0.2	59	0.10	0.023
1546064	Soil		0.8	23.4	12.3	46	0.1	26.1	10.0	529	2.38	57.9	0.5	2.6	3.4	19	<0.1	62.7	0.1	49	0.27	0.041
1546047	Soil		0.9	30.7	11.1	44	<0.1	18.8	7.5	218	2.23	48.7	1.4	8.4	4.8	15	<0.1	5.2	0.2	44	0.14	0.030
1546066	Soil		0.6	10.0	7.1	34	<0.1	16.3	7.2	230	1.89	13.7	0.4	2.8	3.4	17	<0.1	7.0	0.1	41	0.22	0.037
1546053	Soil		0.9	21.3	10.7	51	0.1	20.6	8.7	339	2.56	23.3	1.9	4.5	3.5	19	<0.1	2.0	0.2	56	0.20	0.045
1546048	Soil		0.9	17.4	8.7	30	<0.1	10.6	3.9	107	1.40	59.8	0.4	4.8	2.3	11	<0.1	5.7	0.1	27	0.07	0.024
1546052	Soil		1.2	13.0	10.3	44	0.7	18.2	8.0	202	2.52	47.7	0.6	1.5	3.5	13	0.1	1.6	0.2	63	0.13	0.037
1546056	Soil		0.9	24.1	9.3	48	0.2	19.7	7.4	294	2.14	64.6	0.5	3.4	3.9	13	<0.1	17.7	0.2	36	0.11	0.049
1546054	Soil		1.4	21.4	10.9	59	0.3	19.0	30.2	1479	2.65	48.6	0.7	50.3	3.0	14	0.1	10.2	0.2	50	0.12	0.096

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Client: **Ryanwood Exploration Inc.**
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Project: SUM
Report Date: September 07, 2017

CERTIFICATE OF ANALYSIS WHI17000674.1

		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
1546058	Soil		14	24	0.39	181	0.029	2	1.05	0.007	0.07	0.2	0.02	3.2	<0.1	0.07	3	<0.5	<0.2
1546042	Soil		16	21	0.46	207	0.022	2	1.18	0.005	0.04	0.2	0.03	3.9	<0.1	<0.05	3	<0.5	<0.2
1546040	Soil		22	23	0.42	259	0.027	1	1.22	0.007	0.04	0.1	0.03	4.1	<0.1	<0.05	4	<0.5	<0.2
1546037	Soil		16	25	0.43	259	0.034	2	1.38	0.009	0.05	0.2	0.05	3.8	0.1	<0.05	4	<0.5	<0.2
1546060	Soil		13	31	0.43	198	0.045	2	1.26	0.008	0.10	0.1	0.02	5.0	<0.1	<0.05	4	<0.5	<0.2
1546044	Soil		14	23	0.39	289	0.041	2	1.12	0.008	0.06	0.2	0.04	5.0	<0.1	<0.05	3	<0.5	<0.2
1546039	Soil		20	26	0.39	378	0.033	1	1.23	0.008	0.05	0.2	0.06	4.9	<0.1	<0.05	4	<0.5	<0.2
1546035	Soil		20	20	0.33	387	0.028	2	1.06	0.009	0.06	0.2	0.03	4.1	<0.1	<0.05	3	<0.5	<0.2
1546057	Soil		16	24	0.36	193	0.031	1	1.16	0.006	0.07	0.2	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
1546046	Soil		15	15	0.20	112	0.024	<1	0.91	0.004	0.04	0.2	0.02	2.3	0.1	<0.05	3	0.6	<0.2
1546041	Soil		22	26	0.52	170	0.009	1	0.99	0.003	0.03	<0.1	0.03	3.3	0.1	<0.05	3	0.7	<0.2
1546036	Soil		21	25	0.34	289	0.034	2	1.43	0.006	0.07	0.2	0.03	4.3	0.1	<0.05	4	<0.5	<0.2
1546059	Soil		10	27	0.37	204	0.034	2	0.98	0.007	0.09	0.1	0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
1546045	Soil		14	11	0.17	95	0.020	1	0.81	0.003	0.06	0.2	0.02	2.0	0.1	<0.05	2	<0.5	<0.2
1546043	Soil		21	17	0.22	209	0.017	<1	0.79	0.004	0.05	0.2	0.04	4.5	<0.1	<0.05	2	0.9	<0.2
1546038	Soil		16	24	0.39	324	0.045	5	1.18	0.011	0.06	0.2	0.03	4.9	<0.1	<0.05	3	<0.5	<0.2
1546065	Soil		14	46	0.57	315	0.049	2	1.39	0.010	0.18	0.2	0.01	5.9	0.1	<0.05	4	<0.5	<0.2
1546051	Soil		13	28	0.42	197	0.042	2	1.51	0.007	0.07	0.2	0.04	3.7	0.1	<0.05	4	<0.5	<0.2
1546050	Soil		15	35	0.49	240	0.053	1	1.90	0.008	0.07	0.2	0.02	4.4	0.2	<0.05	5	<0.5	<0.2
1546061	Soil		11	34	0.37	151	0.036	<1	0.92	0.007	0.08	0.2	0.01	4.1	<0.1	<0.05	3	<0.5	<0.2
1546055	Soil		15	25	0.37	154	0.031	2	1.27	0.005	0.07	0.2	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2
1546049	Soil		15	35	0.49	234	0.054	1	1.88	0.008	0.07	0.2	0.03	4.6	0.1	<0.05	5	<0.5	<0.2
1546064	Soil		12	48	0.66	269	0.038	2	1.32	0.009	0.13	0.2	0.02	5.0	0.1	<0.05	4	<0.5	<0.2
1546047	Soil		19	27	0.41	223	0.037	<1	1.40	0.008	0.05	0.2	0.06	4.4	0.1	<0.05	4	0.6	<0.2
1546066	Soil		11	25	0.37	206	0.047	1	0.99	0.008	0.12	0.2	<0.01	2.7	<0.1	<0.05	3	<0.5	<0.2
1546053	Soil		16	32	0.46	310	0.043	<1	1.62	0.009	0.05	0.2	0.03	4.8	0.1	<0.05	5	0.8	<0.2
1546048	Soil		18	15	0.19	120	0.019	<1	0.71	0.005	0.04	0.1	0.04	1.6	<0.1	<0.05	2	<0.5	<0.2
1546052	Soil		12	31	0.40	206	0.047	1	1.96	0.007	0.07	0.2	0.04	2.9	0.1	<0.05	5	<0.5	<0.2
1546056	Soil		17	19	0.31	167	0.023	<1	0.91	0.005	0.08	0.1	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
1546054	Soil		14	23	0.35	204	0.037	1	1.25	0.006	0.08	0.2	0.02	2.8	0.1	<0.05	5	<0.5	<0.2

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Report Date: September 07, 2017

CERTIFICATE OF ANALYSIS WHI17000674.1

	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
1546063	Soil	0.7	30.9	18.2	50	0.2	30.0	10.5	594	2.54	78.2	0.6	6.7	3.2	21	0.1	81.4	0.1	49	0.35	0.037
1546062	Soil	0.8	11.1	7.4	33	<0.1	15.0	6.5	285	1.90	22.3	0.4	2.3	3.1	15	<0.1	3.6	0.1	44	0.22	0.024
1548050	Soil	1.1	26.6	9.3	43	<0.1	15.6	5.5	170	2.00	23.5	0.8	5.5	4.7	17	<0.1	3.5	0.1	37	0.18	0.037
1548035	Soil	0.7	23.9	8.0	48	0.1	19.2	6.2	280	1.98	15.4	1.0	4.3	3.9	21	<0.1	2.6	0.1	44	0.26	0.055
1548046	Soil	1.1	23.2	10.4	51	0.1	20.1	9.7	361	2.42	13.8	1.6	3.9	4.2	24	<0.1	1.2	0.2	52	0.28	0.065
1548045	Soil	0.7	28.4	9.1	51	<0.1	19.9	7.6	281	2.12	28.5	1.0	7.8	5.1	18	<0.1	2.9	0.1	41	0.17	0.028
1442309	Soil	0.8	21.2	11.1	47	0.1	20.1	8.8	223	2.51	12.5	1.2	3.6	5.6	11	<0.1	0.9	0.3	58	0.09	0.017
1548037	Soil	0.9	37.1	14.3	65	<0.1	25.5	9.1	309	2.49	64.0	1.2	7.2	8.4	14	<0.1	6.6	0.3	27	0.11	0.032
1548042	Soil	1.0	39.6	12.2	66	<0.1	27.5	9.7	334	2.67	31.5	1.3	6.5	6.3	22	<0.1	3.0	0.3	51	0.18	0.032
1548044	Soil	0.9	27.9	10.9	52	0.1	20.4	8.5	231	2.27	70.4	1.1	11.4	6.6	9	0.1	6.5	0.2	31	0.05	0.023
1442314	Soil	0.8	23.7	10.5	49	<0.1	19.4	8.7	254	2.43	16.1	1.1	4.2	5.3	15	<0.1	1.3	0.2	48	0.10	0.020
1548038	Soil	0.9	32.4	12.2	65	<0.1	23.0	7.6	263	2.34	56.6	1.4	6.7	6.7	16	<0.1	5.1	0.2	37	0.14	0.034
1548039	Soil	0.8	24.4	10.6	54	<0.1	20.3	8.3	272	2.23	13.8	1.7	7.6	3.7	23	<0.1	1.1	0.2	49	0.27	0.071
1548043	Soil	0.8	24.7	11.8	44	0.1	15.6	6.2	178	1.97	39.8	0.9	7.0	6.3	12	<0.1	4.5	0.2	35	0.09	0.020
1442313	Soil	0.8	25.1	10.2	51	<0.1	19.3	7.7	275	2.17	28.4	0.8	4.8	3.8	12	0.1	3.7	0.2	35	0.10	0.034
1548041	Soil	0.7	24.4	9.7	49	0.1	17.2	7.1	231	2.05	14.7	1.4	4.9	4.1	18	<0.1	1.4	0.2	43	0.19	0.055
1548040	Soil	0.9	28.9	11.0	58	<0.1	21.9	8.7	324	2.44	27.9	1.5	5.0	5.6	19	<0.1	2.3	0.2	45	0.17	0.031
1548036	Soil	1.0	38.8	15.1	79	<0.1	25.9	8.8	320	2.65	90.1	1.4	6.8	7.9	11	0.2	9.9	0.3	19	0.07	0.043
1442321	Soil	0.7	23.2	8.8	47	<0.1	16.2	5.8	170	1.90	15.8	1.1	3.5	5.3	22	0.1	2.2	0.2	40	0.27	0.056
1442320	Soil	0.9	34.6	10.7	68	0.1	23.4	9.6	386	2.29	21.8	1.3	4.3	4.3	29	0.4	2.4	0.2	43	0.38	0.074
1548047	Soil	0.7	23.8	9.3	43	<0.1	17.5	6.5	219	2.06	21.0	0.9	5.0	4.9	16	<0.1	2.7	0.2	41	0.15	0.032
1442310	Soil	1.3	24.4	10.9	59	<0.1	20.6	7.7	186	2.79	39.8	0.6	1.2	4.0	11	<0.1	3.7	0.2	54	0.08	0.067
1442316	Soil	1.1	22.2	12.5	51	0.2	19.1	7.9	254	2.75	27.2	1.2	2.9	5.8	11	0.1	2.5	0.2	53	0.08	0.025
1442322	Soil	1.0	25.9	10.4	57	0.1	18.0	8.6	401	2.21	16.6	1.5	2.1	4.8	26	0.1	2.1	0.2	47	0.30	0.062
1442308	Soil	0.9	25.2	11.6	50	<0.1	20.9	8.6	242	2.46	13.2	1.4	6.0	6.3	16	<0.1	1.1	0.2	56	0.13	0.017
1548049	Soil	1.1	30.5	10.7	45	0.2	18.2	6.4	205	2.17	24.7	0.9	5.5	5.3	21	<0.1	3.4	0.2	38	0.20	0.040
1442319	Soil	1.2	30.0	10.8	80	0.1	22.8	8.3	303	2.38	20.9	1.0	2.6	5.2	28	0.3	2.7	0.2	44	0.33	0.087
1442318	Soil	1.1	25.3	11.7	70	0.1	19.9	7.9	195	2.41	21.7	0.7	4.1	4.7	17	0.2	2.5	0.2	46	0.18	0.063
1442311	Soil	0.8	24.4	9.0	51	<0.1	17.6	6.3	208	1.97	26.5	0.8	4.1	2.8	12	<0.1	3.3	0.2	33	0.11	0.034
1548048	Soil	0.9	22.1	10.2	48	<0.1	17.0	6.8	238	2.21	12.4	1.5	2.3	5.1	20	0.7	0.9	0.2	48	0.24	0.060

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Client: **Ryanwood Exploration Inc.**
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Dawson City Yukon Y0B 1G0 Canada

Project: SUM
Report Date: September 07, 2017

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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
1546063	Soil		13	46	0.66	319	0.029	2	1.27	0.007	0.11	0.2	0.02	4.9	<0.1	<0.05	4	<0.5	<0.2
1546062	Soil		10	24	0.33	200	0.037	<1	0.97	0.007	0.08	0.2	0.01	2.7	<0.1	<0.05	3	<0.5	<0.2
1548050	Soil		22	22	0.31	285	0.028	1	0.99	0.007	0.06	0.2	0.04	3.4	<0.1	<0.05	3	<0.5	<0.2
1548035	Soil		17	26	0.38	298	0.045	<1	1.20	0.009	0.05	0.2	0.03	4.3	<0.1	<0.05	4	<0.5	<0.2
1548046	Soil		19	31	0.46	378	0.043	<1	1.46	0.011	0.05	0.2	0.04	5.1	0.1	<0.05	5	0.5	<0.2
1548045	Soil		19	25	0.37	330	0.039	1	1.22	0.007	0.05	0.1	0.04	4.4	<0.1	<0.05	3	<0.5	<0.2
1442309	Soil		15	34	0.44	242	0.055	2	1.80	0.008	0.04	0.2	0.02	3.8	0.1	<0.05	5	<0.5	<0.2
1548037	Soil		26	16	0.25	236	0.024	1	0.85	0.006	0.05	0.1	0.03	3.2	<0.1	<0.05	2	<0.5	<0.2
1548042	Soil		22	29	0.43	378	0.049	1	1.38	0.008	0.06	0.2	0.05	5.5	0.1	<0.05	4	<0.5	<0.2
1548044	Soil		21	20	0.25	160	0.026	<1	1.09	0.005	0.05	0.1	0.03	3.2	<0.1	<0.05	3	<0.5	<0.2
1442314	Soil		23	28	0.41	230	0.048	<1	1.32	0.007	0.04	0.1	0.04	5.1	<0.1	<0.05	4	<0.5	<0.2
1548038	Soil		24	19	0.32	277	0.028	<1	1.00	0.007	0.06	0.1	0.02	2.9	<0.1	<0.05	3	0.6	<0.2
1548039	Soil		19	29	0.42	353	0.041	1	1.37	0.010	0.04	0.2	0.04	4.2	<0.1	<0.05	4	0.6	<0.2
1548043	Soil		22	19	0.26	229	0.030	<1	0.98	0.006	0.04	0.1	0.02	2.7	<0.1	<0.05	3	<0.5	<0.2
1442313	Soil		22	21	0.32	186	0.032	1	1.06	0.005	0.05	0.1	0.02	2.6	<0.1	<0.05	3	<0.5	<0.2
1548041	Soil		20	25	0.39	296	0.040	<1	1.23	0.008	0.04	0.2	0.03	3.8	<0.1	<0.05	4	0.6	<0.2
1548040	Soil		23	26	0.42	338	0.047	<1	1.25	0.010	0.06	0.1	0.03	4.7	0.1	<0.05	4	<0.5	<0.2
1548036	Soil		31	12	0.20	201	0.012	<1	0.72	0.005	0.06	0.1	0.02	2.1	<0.1	<0.05	2	<0.5	<0.2
1442321	Soil		19	22	0.35	257	0.034	<1	1.11	0.007	0.04	0.2	0.03	2.9	<0.1	<0.05	3	<0.5	<0.2
1442320	Soil		19	25	0.42	418	0.039	1	1.10	0.012	0.05	0.2	0.03	3.9	<0.1	<0.05	3	0.6	<0.2
1548047	Soil		19	23	0.33	269	0.044	<1	1.10	0.006	0.04	0.2	0.03	3.7	<0.1	<0.05	3	<0.5	<0.2
1442310	Soil		15	26	0.35	171	0.033	<1	1.57	0.006	0.05	0.2	<0.01	2.6	0.1	<0.05	5	<0.5	<0.2
1442316	Soil		18	30	0.38	224	0.044	<1	1.65	0.006	0.05	0.2	0.02	3.8	0.1	<0.05	5	<0.5	<0.2
1442322	Soil		19	26	0.40	388	0.033	<1	1.39	0.008	0.05	0.2	0.03	3.4	0.1	<0.05	4	<0.5	<0.2
1442308	Soil		22	32	0.44	305	0.063	1	1.62	0.009	0.05	0.2	0.05	5.6	0.1	<0.05	5	<0.5	<0.2
1548049	Soil		23	23	0.34	341	0.034	<1	1.07	0.008	0.06	0.2	0.04	3.9	<0.1	<0.05	3	<0.5	<0.2
1442319	Soil		22	26	0.45	379	0.046	<1	1.11	0.012	0.05	0.2	0.03	3.8	0.1	<0.05	4	0.5	<0.2
1442318	Soil		19	27	0.39	195	0.040	<1	1.23	0.007	0.06	0.3	0.01	2.8	0.1	<0.05	4	<0.5	<0.2
1442311	Soil		23	20	0.31	204	0.030	<1	1.00	0.006	0.04	0.1	0.03	2.4	<0.1	<0.05	3	<0.5	<0.2
1548048	Soil		20	28	0.43	289	0.053	1	1.39	0.009	0.04	0.2	0.03	4.5	0.1	<0.05	4	<0.5	<0.2

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		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
1545544	Soil		0.8	29.6	9.9	52	<0.1	19.2	5.8	182	1.95	32.7	1.3	4.5	5.8	15	<0.1	4.1	0.2	29	0.14	0.043
1442317	Soil		0.7	18.4	10.6	42	<0.1	14.6	5.2	147	1.86	41.1	0.8	5.7	4.4	8	<0.1	6.4	0.2	30	0.07	0.021
1442312	Soil		0.8	22.0	10.1	51	<0.1	16.8	8.6	285	2.26	12.8	1.5	2.2	5.8	15	<0.1	1.0	0.2	50	0.13	0.033
1442315	Soil		0.9	26.1	11.7	51	0.1	23.3	7.5	186	2.57	23.0	1.1	5.3	5.8	11	0.1	2.5	0.3	50	0.09	0.024
1545563	Soil		1.0	28.7	13.4	43	<0.1	12.7	5.0	117	2.04	69.8	1.1	4.9	6.0	7	0.2	7.6	0.3	23	0.04	0.035
1545549	Soil		0.7	33.9	10.8	57	<0.1	21.8	9.5	325	2.47	19.5	1.3	4.9	5.6	27	<0.1	1.8	0.2	48	0.26	0.055
1545548	Soil		1.1	32.0	12.0	69	0.4	25.1	10.7	310	3.11	30.8	1.3	12.1	6.9	14	<0.1	2.0	0.2	59	0.11	0.025
1545562	Soil		1.2	16.5	12.9	78	0.3	14.2	8.0	712	2.27	27.6	0.5	1.1	3.9	15	0.1	3.1	0.2	36	0.15	0.127
1545537	Soil		0.8	30.1	9.6	57	<0.1	19.0	6.3	230	2.11	40.4	1.1	7.9	5.0	22	<0.1	5.6	0.2	36	0.22	0.054
1545555	Soil		1.2	58.0	13.8	47	1.2	27.1	8.0	225	2.03	51.8	2.8	23.7	0.4	29	0.5	4.9	0.3	26	0.23	0.121
1545546	Soil		0.9	23.5	10.8	56	<0.1	18.9	8.7	254	2.62	26.0	1.5	2.6	6.6	16	<0.1	2.2	0.2	47	0.12	0.021
1545564	Soil		0.5	23.1	10.6	49	<0.1	15.6	5.7	153	1.52	42.2	1.2	3.0	7.9	9	0.2	4.3	0.2	14	0.11	0.044
1545539	Soil		0.7	25.8	8.1	43	0.1	15.8	5.6	172	1.86	40.1	1.1	6.1	4.4	22	<0.1	3.7	0.2	34	0.25	0.065
1545565	Soil		0.8	17.3	10.6	55	<0.1	16.0	7.4	284	2.05	24.2	0.7	3.4	2.7	10	0.2	2.8	0.2	37	0.09	0.040
1545535	Soil		0.9	28.0	9.3	55	<0.1	18.0	5.9	205	2.00	58.6	0.9	7.5	4.0	12	<0.1	21.3	0.2	32	0.13	0.049
1545547	Soil		0.6	9.6	8.9	23	0.1	6.4	2.5	69	1.40	14.3	0.7	1.9	2.1	11	<0.1	0.6	0.2	42	0.10	0.021
1545538	Soil		0.9	30.7	10.1	50	0.1	17.5	6.2	193	2.00	61.3	1.1	8.4	5.5	19	<0.1	5.8	0.2	38	0.20	0.053
1545543	Soil		0.9	33.9	11.1	60	<0.1	22.7	7.3	247	2.16	45.8	1.4	10.5	6.4	15	0.1	5.8	0.2	29	0.15	0.059
1545545	Soil		0.9	33.2	9.4	57	<0.1	22.6	7.4	254	2.22	31.7	1.1	4.5	6.1	19	<0.1	3.6	0.2	40	0.17	0.037
1545561	Soil		0.9	22.3	10.2	53	<0.1	17.2	7.0	245	2.14	23.2	1.1	5.5	5.2	19	<0.1	2.5	0.2	42	0.21	0.053
1545541	Soil		0.8	17.8	9.0	50	<0.1	15.2	6.7	238	2.07	27.1	0.8	3.6	3.7	13	<0.1	3.0	0.2	44	0.14	0.051
1539058	Soil		1.0	19.2	9.4	49	<0.1	15.5	8.1	267	2.23	16.2	1.5	3.6	4.2	19	<0.1	3.4	0.2	52	0.18	0.031
1545551	Soil		1.0	32.7	9.5	58	<0.1	26.8	8.6	226	2.60	42.7	1.1	15.7	5.8	14	<0.1	3.4	0.2	53	0.11	0.017
1539059	Soil		1.0	25.2	9.7	49	<0.1	17.5	9.2	286	2.34	17.6	1.7	3.0	5.8	21	<0.1	2.2	0.2	50	0.21	0.040
1545536	Soil		0.8	24.5	7.8	48	<0.1	16.4	6.0	185	1.94	38.8	0.9	7.0	4.6	14	<0.1	7.8	0.1	37	0.16	0.046
1539061	Soil		1.0	21.2	8.4	39	<0.1	14.4	4.8	148	1.78	42.9	0.6	3.6	3.9	9	<0.1	6.8	0.1	32	0.06	0.050
1539062	Soil		0.7	21.6	7.1	35	<0.1	13.0	4.7	161	1.44	37.3	0.7	8.0	3.6	13	<0.1	9.3	0.1	23	0.13	0.048
1539057	Soil		1.1	33.7	9.5	57	<0.1	25.0	8.4	329	2.32	20.4	0.8	4.8	4.5	26	<0.1	3.0	0.2	55	0.30	0.039
1545554	Soil		1.7	54.4	10.5	47	0.4	25.4	27.1	332	2.13	46.1	1.8	14.6	6.4	12	0.1	5.8	0.2	22	0.08	0.052
1539065	Soil		0.8	24.3	9.6	48	<0.1	22.5	7.7	186	2.20	19.4	0.7	5.1	5.2	19	<0.1	1.9	0.1	48	0.15	0.023

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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
1545544	Soil		26	18	0.28	258	0.024	<1	0.96	0.005	0.06	0.1	0.03	2.8	<0.1	<0.05	3	<0.5	<0.2
1442317	Soil		21	16	0.23	141	0.025	<1	1.03	0.004	0.04	0.2	0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
1442312	Soil		18	28	0.41	206	0.054	1	1.42	0.008	0.04	0.2	0.05	4.4	<0.1	<0.05	4	0.6	<0.2
1442315	Soil		18	31	0.40	255	0.043	1	1.62	0.007	0.05	0.2	0.03	3.2	0.2	<0.05	5	<0.5	<0.2
1545563	Soil		25	13	0.18	110	0.025	<1	0.76	0.002	0.07	0.1	0.02	1.8	0.1	<0.05	3	<0.5	<0.2
1545549	Soil		20	28	0.43	409	0.050	1	1.20	0.010	0.05	0.2	0.06	5.2	<0.1	<0.05	4	<0.5	<0.2
1545548	Soil		16	37	0.49	262	0.056	<1	2.19	0.009	0.05	0.2	0.04	4.4	0.1	<0.05	5	<0.5	<0.2
1545562	Soil		17	19	0.27	212	0.025	<1	1.12	0.005	0.10	0.2	0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
1545537	Soil		20	21	0.32	286	0.037	<1	1.02	0.008	0.05	0.2	0.03	3.3	<0.1	<0.05	3	<0.5	<0.2
1545555	Soil		29	16	0.18	439	0.010	<1	1.26	0.006	0.06	0.1	0.07	1.6	<0.1	<0.05	3	0.7	<0.2
1545546	Soil		19	27	0.39	243	0.050	<1	1.42	0.007	0.05	0.2	0.05	4.8	0.1	<0.05	4	0.5	<0.2
1545564	Soil		27	12	0.22	109	0.019	<1	0.65	0.002	0.08	0.1	0.01	1.7	<0.1	<0.05	2	<0.5	<0.2
1545539	Soil		19	19	0.31	350	0.029	1	0.89	0.007	0.05	0.2	0.04	3.0	<0.1	<0.05	3	<0.5	<0.2
1545565	Soil		16	21	0.29	197	0.026	<1	1.13	0.005	0.07	0.2	0.02	2.0	0.1	<0.05	3	<0.5	<0.2
1545535	Soil		19	18	0.28	139	0.025	<1	0.90	0.005	0.06	0.2	0.02	2.5	<0.1	<0.05	3	<0.5	<0.2
1545547	Soil		16	18	0.19	142	0.033	<1	1.00	0.005	0.04	0.1	0.02	1.9	0.1	<0.05	5	<0.5	<0.2
1545538	Soil		22	22	0.33	291	0.031	1	1.04	0.007	0.08	0.2	0.04	3.7	<0.1	<0.05	3	<0.5	<0.2
1545543	Soil		23	17	0.28	196	0.024	<1	0.90	0.005	0.07	0.1	0.03	2.8	<0.1	0.05	3	<0.5	<0.2
1545545	Soil		21	24	0.36	316	0.038	<1	1.20	0.007	0.06	0.2	0.04	4.9	0.1	<0.05	3	<0.5	<0.2
1545561	Soil		19	24	0.35	312	0.036	<1	1.24	0.008	0.06	0.2	0.04	4.0	0.1	<0.05	4	<0.5	<0.2
1545541	Soil		17	23	0.33	168	0.032	<1	1.15	0.006	0.05	0.2	0.02	2.8	0.1	<0.05	4	<0.5	<0.2
1539058	Soil		18	29	0.41	327	0.045	1	1.50	0.008	0.05	0.2	0.04	4.3	0.1	<0.05	4	<0.5	<0.2
1545551	Soil		15	29	0.38	291	0.062	<1	1.71	0.009	0.06	0.1	0.03	5.1	0.1	<0.05	5	<0.5	<0.2
1539059	Soil		20	29	0.41	354	0.048	<1	1.44	0.010	0.05	0.2	0.05	5.6	0.1	<0.05	4	<0.5	<0.2
1545536	Soil		19	21	0.32	168	0.029	1	1.00	0.007	0.06	0.2	0.03	3.0	<0.1	<0.05	3	<0.5	<0.2
1539061	Soil		13	15	0.21	109	0.028	<1	0.72	0.004	0.06	0.2	0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
1539062	Soil		15	13	0.21	129	0.023	<1	0.64	0.004	0.05	0.1	0.02	1.8	<0.1	<0.05	2	<0.5	<0.2
1539057	Soil		17	29	0.43	411	0.060	<1	1.29	0.013	0.06	0.2	0.04	5.2	<0.1	<0.05	4	<0.5	<0.2
1545554	Soil		32	16	0.20	162	0.021	<1	0.81	0.003	0.07	0.2	0.03	2.2	0.1	<0.05	3	<0.5	<0.2
1539065	Soil		17	29	0.41	317	0.041	<1	1.51	0.008	0.05	0.2	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2

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Project: SUM
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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
1539064	Soil		0.9	18.3	10.5	53	0.2	19.2	8.7	249	2.45	21.3	0.7	3.2	4.9	15	0.1	2.0	0.2	52	0.14	0.028
1545550	Soil		0.8	32.3	10.7	57	<0.1	22.1	10.2	288	2.51	19.4	1.4	6.2	5.2	25	<0.1	1.8	0.2	50	0.26	0.055
1539054	Soil		1.0	27.7	10.3	52	<0.1	20.2	10.0	290	2.42	17.0	1.8	3.3	5.0	23	<0.1	2.3	0.2	51	0.26	0.055
1545566	Soil		1.0	18.1	11.9	63	0.2	15.5	7.4	527	2.03	25.9	0.9	5.5	4.7	18	0.2	3.4	0.2	38	0.20	0.082
1539063	Soil		0.6	22.0	6.7	49	<0.1	17.0	5.5	191	1.75	17.4	0.7	3.8	4.5	21	<0.1	2.6	0.1	36	0.25	0.059
1539060	Soil		0.9	18.5	10.1	47	<0.1	16.4	7.0	239	2.16	24.6	0.7	1.7	2.4	13	<0.1	3.2	0.2	47	0.13	0.036
1545557	Soil		0.8	32.2	9.5	57	0.1	18.8	5.8	188	2.05	37.6	1.6	11.7	6.4	18	0.2	4.8	0.2	35	0.20	0.047
1545560	Soil		0.5	25.4	9.4	58	0.1	19.2	6.6	162	1.92	15.4	1.3	4.7	4.7	24	<0.1	2.0	0.2	41	0.31	0.063
1539049	Soil		0.8	22.3	9.2	46	<0.1	17.4	6.5	192	2.11	25.1	0.7	3.3	4.9	11	<0.1	2.9	0.2	43	0.08	0.018
1539056	Soil		1.3	36.1	11.0	62	0.1	25.1	9.5	260	2.74	22.0	1.3	6.5	5.8	16	<0.1	4.1	0.2	61	0.13	0.023
1539046	Soil		0.9	20.7	9.7	49	<0.1	16.2	6.3	223	2.07	31.6	0.9	3.3	4.9	15	<0.1	3.2	0.2	36	0.15	0.042
1539047	Soil		0.6	18.5	7.4	38	<0.1	13.6	5.1	177	1.62	22.2	0.8	2.6	4.3	12	<0.1	2.8	0.1	29	0.14	0.036
1539050	Soil		0.8	25.2	9.0	48	<0.1	18.0	6.6	200	1.91	30.5	0.8	4.6	5.5	11	<0.1	3.8	0.2	33	0.08	0.017
1539055	Soil		0.8	19.7	9.9	50	0.1	17.3	7.0	237	2.31	13.7	1.1	9.4	3.7	18	<0.1	1.5	0.2	55	0.18	0.024
1545552	Soil		1.0	25.2	11.7	53	0.3	16.8	6.5	219	2.53	57.1	1.1	30.4	3.9	14	0.1	2.5	0.2	54	0.14	0.035
1545540	Soil		0.8	25.5	9.5	57	0.1	19.0	7.0	200	2.13	24.1	1.3	4.1	1.3	26	<0.1	3.0	0.2	42	0.32	0.087
1539052	Soil		0.8	27.4	8.7	48	<0.1	20.7	8.2	259	2.08	22.5	0.8	4.4	4.8	17	<0.1	2.4	0.2	41	0.13	0.013
1539051	Soil		0.7	22.7	8.8	43	<0.1	15.5	5.9	207	1.88	28.6	1.0	4.7	4.8	10	<0.1	3.3	0.2	31	0.08	0.020
1545553	Soil		1.0	23.2	10.4	45	0.1	14.5	4.9	134	2.23	71.0	0.8	21.7	3.7	16	<0.1	6.8	0.3	47	0.14	0.044
1545556	Soil		0.6	24.9	8.5	51	0.1	14.4	5.1	121	1.66	41.7	1.1	14.1	6.5	13	0.1	6.4	0.3	23	0.14	0.052
1539053	Soil		1.0	35.1	12.2	82	<0.1	30.1	12.3	340	2.70	18.7	1.3	6.0	6.7	16	0.2	2.7	0.3	60	0.12	0.024
1539048	Soil		0.9	31.2	9.8	53	<0.1	20.5	8.6	292	2.24	26.4	0.9	12.5	5.8	20	<0.1	3.6	0.2	43	0.16	0.034
1539045	Soil		0.8	21.5	8.9	47	<0.1	15.6	5.6	193	1.79	29.7	0.8	4.6	3.9	13	<0.1	3.6	0.2	34	0.12	0.041
1537530	Soil		0.9	12.3	9.2	42	<0.1	18.0	8.2	223	2.07	11.0	0.5	2.4	4.4	21	<0.1	1.3	0.2	52	0.27	0.018
1537532	Soil		0.7	16.5	7.7	40	<0.1	17.6	7.4	290	1.97	14.8	0.6	2.5	4.0	24	<0.1	2.4	0.2	43	0.30	0.059
1545558	Soil		0.7	25.1	7.7	53	0.1	17.5	5.6	160	1.78	24.2	1.1	7.4	6.2	22	0.2	3.8	0.2	35	0.23	0.055
1539042	Soil		0.9	31.9	12.1	55	0.1	23.7	8.8	271	2.51	25.3	1.8	5.6	6.1	20	<0.1	2.1	0.2	55	0.19	0.045
1537526	Soil		0.8	18.9	8.7	42	<0.1	21.1	7.5	181	2.05	41.3	0.7	5.4	4.5	19	<0.1	6.3	0.2	44	0.23	0.053
1537529	Soil		0.8	25.6	10.1	46	<0.1	28.0	10.2	268	2.38	23.3	0.7	3.7	5.2	19	<0.1	3.4	0.2	58	0.23	0.020
1545542	Soil		0.9	34.1	12.2	67	0.1	23.5	8.0	286	2.14	53.6	1.2	7.6	7.7	17	0.1	6.6	0.2	25	0.17	0.067

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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
1539064	Soil		13	31	0.41	234	0.042	<1	1.66	0.007	0.06	0.2	0.02	3.0	0.1	<0.05	4	<0.5	<0.2
1545550	Soil		19	29	0.44	402	0.048	2	1.30	0.011	0.06	0.2	0.06	5.2	<0.1	<0.05	4	<0.5	<0.2
1539054	Soil		20	31	0.45	398	0.045	<1	1.50	0.010	0.06	0.2	0.06	5.5	0.1	<0.05	5	<0.5	<0.2
1545566	Soil		18	22	0.31	277	0.028	<1	1.27	0.008	0.09	0.2	0.03	2.9	<0.1	<0.05	4	<0.5	<0.2
1539063	Soil		17	22	0.36	224	0.043	1	0.94	0.008	0.05	0.1	0.02	3.3	<0.1	<0.05	3	<0.5	<0.2
1539060	Soil		16	24	0.32	209	0.035	<1	1.40	0.006	0.06	0.2	0.01	2.7	0.1	<0.05	5	<0.5	<0.2
1545557	Soil		23	22	0.35	282	0.036	<1	1.19	0.007	0.06	0.2	0.05	4.0	<0.1	<0.05	3	<0.5	<0.2
1545560	Soil		20	24	0.40	354	0.044	1	1.09	0.011	0.06	0.2	0.03	3.8	<0.1	<0.05	3	<0.5	<0.2
1539049	Soil		18	24	0.33	235	0.037	<1	1.22	0.006	0.05	0.2	0.04	3.5	<0.1	<0.05	4	<0.5	<0.2
1539056	Soil		20	34	0.43	295	0.059	2	1.88	0.009	0.06	0.2	0.06	6.3	0.1	<0.05	5	<0.5	<0.2
1539046	Soil		19	22	0.32	239	0.031	2	1.13	0.007	0.06	0.2	0.02	3.3	<0.1	<0.05	3	<0.5	<0.2
1539047	Soil		18	17	0.26	175	0.026	<1	0.86	0.006	0.04	0.2	0.03	2.7	<0.1	<0.05	2	<0.5	<0.2
1539050	Soil		21	19	0.30	231	0.034	1	1.00	0.005	0.05	0.1	0.03	3.5	<0.1	<0.05	3	<0.5	<0.2
1539055	Soil		17	31	0.41	321	0.051	1	1.60	0.008	0.05	0.2	0.02	3.8	0.1	<0.05	5	<0.5	<0.2
1545552	Soil		18	31	0.36	273	0.038	1	1.79	0.008	0.06	0.2	0.04	3.9	0.1	<0.05	5	<0.5	<0.2
1545540	Soil		17	26	0.38	380	0.029	1	1.15	0.011	0.05	0.2	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2
1539052	Soil		17	23	0.33	327	0.046	<1	1.24	0.008	0.05	0.2	0.03	4.5	<0.1	<0.05	4	<0.5	<0.2
1539051	Soil		20	19	0.27	216	0.033	1	1.02	0.005	0.05	0.1	0.03	3.7	<0.1	<0.05	3	<0.5	<0.2
1545553	Soil		19	22	0.27	219	0.028	1	1.15	0.006	0.05	0.2	0.03	2.4	<0.1	<0.05	4	<0.5	<0.2
1545556	Soil		28	15	0.29	143	0.022	<1	0.85	0.005	0.06	0.1	0.02	1.9	<0.1	<0.05	2	<0.5	<0.2
1539053	Soil		21	35	0.48	279	0.053	2	1.81	0.010	0.07	0.2	0.05	4.5	0.1	<0.05	4	<0.5	<0.2
1539048	Soil		21	24	0.36	271	0.040	1	1.22	0.008	0.05	0.1	0.05	4.4	<0.1	<0.05	3	<0.5	<0.2
1539045	Soil		20	19	0.29	151	0.028	2	0.98	0.006	0.05	0.2	0.03	2.3	<0.1	<0.05	3	<0.5	<0.2
1537530	Soil		14	31	0.42	260	0.058	1	1.27	0.008	0.12	0.1	0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
1537532	Soil		14	26	0.40	256	0.035	1	1.03	0.008	0.08	0.2	0.01	2.7	<0.1	<0.05	3	<0.5	<0.2
1545558	Soil		22	21	0.32	239	0.038	2	0.98	0.008	0.05	0.2	0.03	3.2	<0.1	<0.05	3	<0.5	<0.2
1539042	Soil		24	33	0.46	385	0.045	1	1.60	0.010	0.06	0.2	0.04	5.7	0.1	<0.05	5	0.7	<0.2
1537526	Soil		14	26	0.38	124	0.046	2	1.05	0.008	0.10	0.2	0.02	3.0	<0.1	<0.05	3	<0.5	<0.2
1537529	Soil		15	50	0.58	184	0.054	2	1.40	0.008	0.12	0.2	0.02	5.2	<0.1	<0.05	4	<0.5	<0.2
1545542	Soil		29	17	0.25	190	0.023	1	0.78	0.005	0.08	0.1	0.02	2.4	<0.1	<0.05	2	<0.5	<0.2

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	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
1539043	Soil	0.9	25.1	12.1	48	0.1	17.5	6.0	172	2.27	22.0	1.8	6.1	4.8	14	<0.1	1.9	0.2	51	0.13	0.032
1537524	Soil	1.3	88.5	41.7	163	0.2	48.8	12.0	647	4.09	95.6	0.6	4.1	4.2	14	<0.1	13.4	0.3	72	0.15	0.033
1537528	Soil	0.7	21.0	9.1	40	<0.1	33.0	10.9	332	2.43	19.9	0.3	2.2	2.6	15	<0.1	4.7	0.1	67	0.19	0.014
1545559	Soil	0.7	22.6	9.0	50	0.1	15.2	5.8	176	1.86	24.5	1.3	8.2	4.3	24	<0.1	3.0	0.2	38	0.26	0.062
1539044	Soil	0.8	22.4	8.8	45	<0.1	17.3	6.8	204	1.94	19.9	1.1	3.2	4.0	18	<0.1	2.2	0.2	40	0.19	0.045
1537525	Soil	1.1	60.0	25.9	106	0.2	36.4	10.2	477	3.18	78.3	0.6	3.7	4.1	18	<0.1	13.7	0.2	57	0.18	0.037
1537527	Soil	0.6	11.7	7.6	34	<0.1	15.7	7.5	283	1.79	17.4	0.4	1.1	3.7	20	<0.1	2.1	0.1	44	0.25	0.028
1537531	Soil	0.6	18.7	8.6	41	<0.1	20.8	8.4	209	2.11	15.6	0.8	21.8	5.4	20	<0.1	2.1	0.2	47	0.25	0.023
1537522	Soil	0.9	30.0	8.5	46	0.2	24.8	7.8	216	2.16	33.7	0.8	5.4	4.8	21	<0.1	6.6	0.2	48	0.21	0.052
1537513	Soil	1.4	37.0	14.4	77	<0.1	29.4	11.9	433	2.70	26.7	0.8	5.8	5.3	28	<0.1	3.7	0.2	62	0.24	0.030
1539039	Soil	1.0	18.8	10.0	60	0.1	16.1	12.0	643	2.37	15.8	1.2	3.0	1.9	18	0.1	1.3	0.2	50	0.22	0.098
1537523	Soil	0.8	20.5	9.6	44	0.3	22.5	7.5	336	2.05	21.8	0.6	6.2	3.7	21	<0.1	3.2	0.2	48	0.23	0.048
1537517	Soil	1.3	28.1	10.0	32	0.2	13.3	4.7	106	2.11	129.8	0.8	16.0	5.3	15	<0.1	13.0	0.2	44	0.10	0.025
1537519	Soil	1.1	50.6	12.0	60	0.1	27.9	9.5	236	2.42	143.0	1.3	18.7	8.3	11	<0.1	40.2	0.2	32	0.05	0.021
1539035	Soil	0.7	30.7	10.5	49	0.2	20.0	6.4	192	2.15	20.7	1.5	33.6	6.4	17	<0.1	4.9	0.2	45	0.16	0.031
1539041	Soil	0.8	30.6	12.3	60	<0.1	20.1	7.1	225	2.13	57.5	1.4	9.5	8.1	11	<0.1	5.7	0.2	31	0.08	0.024
1537518	Soil	0.8	25.4	11.1	49	0.1	24.0	9.6	226	2.54	28.0	0.9	5.4	6.4	16	<0.1	6.5	0.2	52	0.12	0.019
1537521	Soil	1.1	35.3	12.7	52	0.3	24.5	13.8	716	2.25	102.5	0.8	8.0	4.3	14	0.1	35.4	0.2	32	0.10	0.061
1539037	Soil	1.0	31.8	10.0	54	0.2	23.4	8.7	393	2.26	32.1	1.4	6.7	3.3	16	<0.1	5.9	0.2	44	0.14	0.032
1539040	Soil	0.7	27.8	12.2	49	<0.1	20.3	7.9	194	1.98	36.5	1.1	5.3	6.0	10	<0.1	4.0	0.2	33	0.08	0.018
1537516	Soil	1.2	23.3	9.0	36	0.2	15.2	4.7	113	2.04	135.5	0.6	32.6	3.0	18	<0.1	12.1	0.2	39	0.13	0.039
1537520	Soil	1.0	32.6	11.1	51	0.2	22.7	8.0	185	2.21	85.4	0.8	8.9	6.0	10	0.1	28.1	0.2	35	0.06	0.021
1539036	Soil	0.9	37.7	9.6	51	0.1	25.5	7.7	431	2.16	31.1	1.2	3.3	3.5	18	<0.1	7.2	0.2	41	0.15	0.033
1539038	Soil	0.8	21.0	10.3	52	0.1	18.2	7.4	263	2.19	14.7	1.2	3.4	4.7	21	<0.1	1.4	0.2	51	0.23	0.055
1537502	Soil	0.9	32.6	12.5	62	<0.1	20.9	7.7	223	2.22	70.0	1.2	6.8	6.1	11	0.1	6.6	0.3	24	0.09	0.040
1537504	Soil	1.0	42.6	15.5	69	<0.1	24.7	8.1	314	2.40	106.0	1.3	8.6	7.6	15	0.1	12.0	0.4	19	0.13	0.055
1537503	Soil	0.8	31.1	10.2	54	<0.1	20.7	7.2	231	2.09	44.0	1.1	6.5	5.0	15	<0.1	5.0	0.2	33	0.14	0.035
1537515	Soil	2.0	20.2	12.3	39	0.2	14.8	6.2	161	2.12	52.1	0.7	2.7	3.8	14	0.1	3.3	0.3	49	0.12	0.025
1537501	Soil	0.7	30.5	10.6	54	<0.1	19.0	6.4	225	2.00	50.5	1.2	7.8	5.3	15	<0.1	5.4	0.2	28	0.14	0.036
1537508	Soil	0.9	26.7	11.0	50	<0.1	20.0	7.4	255	2.08	24.6	1.0	14.8	3.3	22	<0.1	2.7	0.2	44	0.21	0.040

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Project: SUM
Report Date: September 07, 2017

CERTIFICATE OF ANALYSIS WHI17000674.1

	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
1539043	Soil	24	30	0.39	242	0.042	1	1.51	0.008	0.05	0.2	0.05	4.6	0.1	<0.05	4	<0.5	<0.2
1537524	Soil	14	112	1.74	160	0.022	1	2.16	0.005	0.09	<0.1	0.03	6.6	<0.1	<0.05	5	1.6	<0.2
1537528	Soil	10	91	0.99	161	0.046	1	1.53	0.007	0.05	0.1	0.01	5.1	0.1	<0.05	5	<0.5	<0.2
1545559	Soil	23	22	0.34	272	0.033	1	1.15	0.009	0.05	0.2	0.04	3.1	<0.1	<0.05	3	<0.5	<0.2
1539044	Soil	20	24	0.37	245	0.039	1	1.20	0.008	0.05	0.2	0.03	3.4	<0.1	<0.05	3	<0.5	<0.2
1537525	Soil	16	74	1.12	184	0.025	<1	1.58	0.005	0.09	0.1	0.03	4.5	<0.1	<0.05	4	1.0	<0.2
1537527	Soil	12	24	0.32	189	0.045	1	1.03	0.008	0.10	0.2	0.02	2.7	<0.1	<0.05	3	<0.5	<0.2
1537531	Soil	15	30	0.41	209	0.058	1	1.23	0.009	0.12	0.1	0.01	4.1	<0.1	<0.05	4	<0.5	<0.2
1537522	Soil	16	28	0.38	228	0.039	2	1.26	0.007	0.07	0.2	0.02	3.1	<0.1	<0.05	3	<0.5	<0.2
1537513	Soil	21	35	0.52	530	0.063	1	1.56	0.014	0.08	0.2	0.05	5.8	0.1	<0.05	5	<0.5	<0.2
1539039	Soil	18	30	0.39	236	0.036	2	1.51	0.008	0.05	0.2	0.04	3.0	0.1	<0.05	5	0.6	<0.2
1537523	Soil	16	28	0.43	232	0.044	2	1.21	0.007	0.09	0.1	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
1537517	Soil	24	23	0.25	170	0.030	<1	1.16	0.006	0.05	0.2	0.04	2.7	0.1	<0.05	4	0.6	<0.2
1537519	Soil	29	21	0.29	128	0.020	1	1.10	0.005	0.07	0.1	0.02	2.8	0.1	<0.05	3	0.6	<0.2
1539035	Soil	24	30	0.41	341	0.044	1	1.50	0.008	0.05	0.2	0.06	5.9	0.1	<0.05	4	<0.5	<0.2
1539041	Soil	28	19	0.28	234	0.024	<1	1.05	0.005	0.06	0.1	0.04	3.1	<0.1	<0.05	3	<0.5	<0.2
1537518	Soil	17	33	0.45	264	0.050	1	1.73	0.009	0.06	0.1	0.02	3.6	0.1	<0.05	5	<0.5	<0.2
1537521	Soil	22	19	0.29	213	0.019	1	1.00	0.005	0.08	0.2	0.01	2.2	0.1	<0.05	3	<0.5	<0.2
1539037	Soil	22	29	0.42	348	0.034	1	1.40	0.007	0.05	0.2	0.04	4.9	0.1	<0.05	4	<0.5	<0.2
1539040	Soil	21	20	0.31	161	0.027	1	1.13	0.006	0.04	0.1	0.02	2.8	<0.1	<0.05	3	<0.5	<0.2
1537516	Soil	15	20	0.28	180	0.033	<1	0.99	0.006	0.05	0.2	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
1537520	Soil	20	23	0.32	124	0.020	1	1.21	0.005	0.06	0.2	0.01	2.4	0.1	<0.05	3	<0.5	<0.2
1539036	Soil	21	27	0.38	353	0.036	<1	1.19	0.008	0.04	0.2	0.04	4.5	<0.1	<0.05	3	<0.5	<0.2
1539038	Soil	19	31	0.45	282	0.048	<1	1.42	0.010	0.05	0.2	0.03	4.1	0.1	<0.05	5	<0.5	<0.2
1537502	Soil	25	16	0.24	187	0.015	<1	0.87	0.005	0.05	0.2	0.04	2.5	<0.1	<0.05	2	<0.5	<0.2
1537504	Soil	25	12	0.20	208	0.014	<1	0.57	0.003	0.06	0.2	0.04	2.5	0.2	<0.05	2	<0.5	<0.2
1537503	Soil	23	21	0.33	275	0.027	<1	1.03	0.006	0.05	0.2	0.03	3.3	<0.1	<0.05	3	<0.5	<0.2
1537515	Soil	18	24	0.30	236	0.035	<1	1.27	0.007	0.04	0.2	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2
1537501	Soil	25	18	0.29	284	0.023	<1	0.89	0.006	0.05	0.1	0.04	2.7	<0.1	<0.05	3	<0.5	<0.2
1537508	Soil	18	24	0.34	332	0.045	<1	1.18	0.009	0.04	0.2	0.03	4.0	<0.1	<0.05	4	<0.5	<0.2

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Client: **Ryanwood Exploration Inc.**
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Project: SUM
Report Date: September 07, 2017

CERTIFICATE OF ANALYSIS WHI17000674.1

		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
1537510	Soil		1.3	43.1	14.4	54	<0.1	20.2	11.2	487	2.80	97.3	2.9	20.9	6.0	22	<0.1	9.1	0.3	57	0.15	0.032
1537514	Soil		1.2	27.3	10.7	47	0.2	23.5	9.3	231	2.39	27.0	1.6	5.3	5.7	15	<0.1	2.4	0.2	47	0.12	0.026
1545782	Soil		1.0	26.4	8.2	59	<0.1	22.6	8.4	362	1.92	15.5	0.6	2.5	4.4	39	0.4	1.8	0.2	41	0.98	0.074
1537511	Soil		0.8	25.2	11.1	46	<0.1	17.0	6.7	181	2.25	18.6	1.7	4.3	4.7	15	<0.1	2.1	0.2	49	0.12	0.025
1537505	Soil		1.3	34.5	13.7	59	0.2	22.5	11.2	335	2.65	104.5	0.9	8.9	6.4	8	0.2	11.2	0.2	27	0.04	0.034
1537506	Soil		0.8	26.7	9.8	62	0.1	22.0	8.5	320	2.22	21.8	1.5	8.5	3.1	29	<0.1	1.9	0.2	45	0.34	0.079
1545777	Soil		0.8	22.5	14.3	52	0.2	17.8	6.4	171	2.05	20.7	1.1	13.2	4.0	19	<0.1	2.2	0.2	29	0.18	0.044
1537509	Soil		0.9	31.2	9.0	54	<0.1	20.9	6.9	265	2.12	30.1	1.1	8.7	4.4	24	<0.1	3.3	0.2	45	0.24	0.048
1537507	Soil		0.7	21.6	8.2	44	<0.1	15.7	5.7	205	1.88	32.7	1.0	7.7	4.1	18	<0.1	2.8	0.2	41	0.19	0.049
1537512	Soil		0.6	29.5	9.7	52	<0.1	21.5	8.6	296	2.25	22.6	1.3	4.9	4.3	22	<0.1	2.2	0.2	43	0.23	0.059
1545761	Soil		0.7	24.9	7.9	44	<0.1	18.2	5.5	187	1.71	25.8	0.8	7.5	4.6	18	<0.1	3.5	0.1	34	0.18	0.029
1545756	Soil		0.9	100.0	42.7	166	0.1	38.5	18.1	530	3.87	106.8	1.0	12.6	6.4	15	<0.1	11.3	0.2	34	0.06	0.028
1545754	Soil		1.4	36.6	12.7	43	0.2	18.5	7.0	170	2.46	188.9	1.1	23.5	6.9	13	<0.1	7.9	0.2	42	0.08	0.020
1551287	Soil		0.9	29.1	10.9	55	<0.1	19.7	7.0	249	2.06	44.5	1.0	5.4	6.0	20	<0.1	4.8	0.2	30	0.21	0.058
1545772	Soil		1.2	34.8	20.1	54	0.2	25.0	7.6	165	2.35	50.7	0.9	13.4	6.0	17	<0.1	5.7	0.3	32	0.12	0.037
1545755	Soil		1.1	103.5	25.7	69	0.1	23.7	7.7	167	2.34	111.8	2.4	9.6	8.0	17	<0.1	6.3	0.2	26	0.10	0.036
1545753	Soil		1.0	14.4	11.7	31	0.2	10.5	4.0	111	1.83	171.5	0.6	25.0	5.4	11	<0.1	8.4	0.2	37	0.07	0.015
1545752	Soil		1.5	32.9	16.8	47	0.4	22.6	8.2	224	2.54	129.6	2.0	19.0	4.0	27	<0.1	3.6	0.3	58	0.29	0.061
1545764	Soil		1.0	30.7	14.8	59	<0.1	20.7	9.2	236	2.70	31.9	4.2	14.1	8.2	16	<0.1	2.2	0.2	46	0.13	0.028
1545760	Soil		0.8	24.5	10.1	51	<0.1	17.6	7.0	173	2.18	36.7	1.2	11.7	4.6	19	<0.1	3.8	0.2	41	0.21	0.055
1545759	Soil		0.8	22.0	9.8	57	<0.1	25.3	10.0	212	2.37	43.8	0.6	13.4	3.6	16	0.2	2.8	0.2	48	0.17	0.151
1545757	Soil		1.0	43.6	21.3	52	0.2	16.4	7.5	204	2.47	93.5	0.9	9.6	3.6	12	<0.1	7.8	0.2	34	0.07	0.033
1545765	Soil		0.8	28.6	12.4	57	<0.1	19.5	7.1	217	2.21	47.5	0.9	11.7	5.8	19	0.1	6.4	0.2	32	0.23	0.055
1545763	Soil		1.6	31.3	16.8	114	0.2	26.9	11.4	390	2.83	502.3	1.7	100.1	11.5	23	0.2	14.0	0.2	17	0.08	0.030
1545758	Soil		1.0	36.0	13.1	56	<0.1	18.3	7.6	191	2.22	47.4	1.3	6.3	6.0	14	<0.1	5.5	0.2	38	0.13	0.022
1545751	Soil		1.1	41.8	13.4	42	0.4	18.0	7.4	176	2.30	74.2	3.2	16.7	6.0	17	<0.1	4.4	0.2	49	0.14	0.026
1551298	Soil		1.5	61.6	19.6	86	<0.1	34.3	11.4	444	2.64	153.5	1.5	17.4	9.2	16	0.2	103.2	0.2	19	0.12	0.053
1551293	Soil		1.0	36.7	11.9	56	<0.1	20.2	7.6	227	2.15	85.3	1.5	10.1	6.6	14	<0.1	14.8	0.2	27	0.09	0.032
1545773	Soil		1.1	21.5	14.0	60	0.2	20.0	7.5	199	2.68	39.0	0.5	6.8	5.3	16	0.1	3.1	0.2	40	0.12	0.111
1545762	Soil		1.1	35.4	19.1	128	0.1	29.1	11.1	209	2.78	101.4	1.3	25.8	11.2	8	<0.1	10.8	0.2	12	0.03	0.031

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	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
1537510	Soil	25	33	0.37	476	0.039	<1	1.72	0.008	0.05	0.2	0.10	7.4	0.2	<0.05	5	<0.5	<0.2
1537514	Soil	18	31	0.41	272	0.036	1	1.58	0.007	0.05	0.2	0.05	4.4	0.1	<0.05	4	<0.5	<0.2
1545782	Soil	14	21	0.45	321	0.041	1	0.81	0.015	0.06	0.3	0.02	3.1	<0.1	<0.05	3	<0.5	<0.2
1537511	Soil	17	28	0.40	261	0.042	<1	1.44	0.007	0.05	0.2	0.05	5.1	0.1	<0.05	4	<0.5	<0.2
1537505	Soil	23	17	0.21	136	0.013	1	1.10	0.003	0.05	0.3	0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
1537506	Soil	18	27	0.43	381	0.038	1	1.18	0.012	0.05	0.2	0.04	3.8	<0.1	<0.05	4	<0.5	<0.2
1545777	Soil	20	21	0.41	218	0.024	<1	1.07	0.007	0.07	0.1	0.04	2.2	<0.1	<0.05	3	<0.5	<0.2
1537509	Soil	18	25	0.39	350	0.048	<1	1.23	0.008	0.05	0.2	0.03	4.5	<0.1	<0.05	4	<0.5	<0.2
1537507	Soil	17	22	0.33	514	0.038	<1	1.00	0.008	0.03	0.2	0.02	3.0	<0.1	<0.05	3	<0.5	<0.2
1537512	Soil	18	26	0.40	348	0.042	<1	1.18	0.009	0.05	0.2	0.04	4.5	<0.1	<0.05	3	<0.5	<0.2
1545761	Soil	16	19	0.28	287	0.040	<1	0.82	0.008	0.04	0.1	0.03	3.0	<0.1	<0.05	3	<0.5	<0.2
1545756	Soil	18	26	0.58	204	0.016	<1	1.35	0.006	0.06	0.2	0.03	3.6	0.1	<0.05	3	0.7	0.2
1545754	Soil	20	26	0.32	215	0.030	<1	1.29	0.006	0.06	0.2	0.03	4.0	0.1	<0.05	4	<0.5	<0.2
1551287	Soil	21	18	0.30	254	0.030	<1	0.86	0.007	0.05	0.2	0.02	2.8	<0.1	<0.05	3	<0.5	<0.2
1545772	Soil	23	27	0.38	192	0.026	<1	1.15	0.006	0.06	0.1	0.05	2.6	<0.1	<0.05	3	<0.5	<0.2
1545755	Soil	20	18	0.23	252	0.015	<1	0.79	0.005	0.07	0.2	0.09	3.7	<0.1	<0.05	2	<0.5	<0.2
1545753	Soil	21	20	0.26	165	0.019	<1	1.08	0.005	0.05	0.2	0.02	2.1	0.1	<0.05	4	<0.5	<0.2
1545752	Soil	19	35	0.43	498	0.034	<1	1.67	0.010	0.05	0.2	0.07	4.7	0.1	<0.05	5	0.7	<0.2
1545764	Soil	28	29	0.42	320	0.032	<1	1.52	0.007	0.05	0.2	0.04	4.6	<0.1	<0.05	4	<0.5	<0.2
1545760	Soil	16	25	0.36	280	0.033	<1	1.09	0.007	0.04	0.2	0.03	3.2	<0.1	<0.05	3	<0.5	<0.2
1545759	Soil	11	26	0.39	241	0.029	1	1.42	0.006	0.06	0.2	0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
1545757	Soil	22	20	0.26	223	0.012	<1	1.22	0.005	0.05	0.2	0.03	2.5	0.1	<0.05	3	<0.5	<0.2
1545765	Soil	17	20	0.29	234	0.027	<1	0.80	0.008	0.05	0.2	0.04	3.2	<0.1	<0.05	3	<0.5	<0.2
1545763	Soil	32	12	0.16	256	0.010	<1	0.59	0.005	0.05	0.2	0.04	3.2	<0.1	<0.05	2	<0.5	<0.2
1545758	Soil	19	24	0.34	278	0.029	<1	1.11	0.007	0.05	0.2	0.04	3.6	<0.1	<0.05	3	0.5	<0.2
1545751	Soil	20	32	0.38	331	0.033	<1	1.42	0.007	0.05	0.2	0.07	4.8	<0.1	<0.05	4	<0.5	<0.2
1551298	Soil	25	15	0.27	223	0.010	<1	0.66	0.003	0.07	0.1	0.04	2.7	<0.1	<0.05	2	0.6	<0.2
1551293	Soil	22	15	0.23	185	0.018	<1	0.83	0.005	0.06	0.2	0.03	2.8	<0.1	<0.05	2	<0.5	<0.2
1545773	Soil	20	25	0.35	138	0.033	<1	1.04	0.005	0.11	0.2	0.03	2.2	0.1	<0.05	4	<0.5	<0.2
1545762	Soil	35	8	0.09	199	0.005	<1	0.49	0.004	0.07	<0.1	0.03	2.2	<0.1	<0.05	1	<0.5	<0.2

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Project: SUM
Report Date: September 07, 2017

CERTIFICATE OF ANALYSIS WHI17000674.1

		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
1551288	Soil		0.8	29.5	13.8	65	0.1	21.3	7.4	251	2.12	70.2	1.1	7.6	7.8	8	0.1	7.1	0.2	16	0.05	0.035
1545330	Soil		0.9	32.7	9.5	41	<0.1	17.9	6.8	240	1.69	98.8	1.0	11.9	5.1	9	0.1	38.4	0.2	18	0.05	0.020
1545768	Soil		1.7	40.8	21.7	45	0.3	13.1	3.4	99	2.30	61.3	1.5	28.5	4.0	36	0.1	7.0	0.4	26	0.22	0.112
1545766	Soil		1.5	13.7	10.0	50	0.2	17.1	7.3	190	2.58	21.3	0.5	6.4	3.6	13	0.2	1.3	0.2	50	0.13	0.042
1545335	Soil		0.8	17.1	8.8	45	0.2	19.6	6.4	210	2.17	45.2	0.6	5.2	3.6	13	<0.1	8.5	0.2	42	0.15	0.050
1545331	Soil		1.2	46.1	12.2	57	0.1	24.4	9.0	285	2.29	180.2	1.2	19.6	6.2	13	0.1	40.7	0.2	28	0.04	0.024
1545327	Soil		1.1	39.4	15.0	67	0.1	28.2	9.4	356	2.45	100.2	0.8	15.1	4.2	23	0.1	34.5	0.2	37	0.25	0.058
1545769	Soil		0.7	10.5	14.7	71	0.2	18.8	8.6	280	2.13	32.0	0.5	2.6	3.9	22	0.2	3.0	0.2	50	0.26	0.141
1551291	Soil		0.9	26.9	11.4	55	<0.1	21.1	8.2	259	2.31	52.2	1.2	8.0	5.5	15	<0.1	4.9	0.2	32	0.15	0.054
1545332	Soil		1.0	37.7	11.1	54	<0.1	23.8	7.9	274	2.21	90.6	1.1	13.9	6.0	13	0.1	22.1	0.2	36	0.08	0.020
1551290	Soil		0.9	30.2	11.8	60	0.1	20.3	6.9	257	2.21	66.1	1.2	10.0	6.3	13	<0.1	5.9	0.2	27	0.12	0.043
1545767	Soil		1.5	39.0	19.0	90	0.6	16.5	4.9	171	3.34	119.2	1.0	18.0	6.0	22	0.1	9.0	0.3	25	0.07	0.060
1545781	Soil		0.9	41.9	9.6	55	0.4	30.3	13.3	479	1.82	19.3	7.3	4.8	0.9	68	0.5	2.3	0.2	29	1.13	0.097
1545776	Soil		0.9	20.3	13.3	58	<0.1	17.9	7.4	243	2.34	19.1	0.8	9.4	4.7	16	<0.1	1.7	0.2	30	0.17	0.046
1547804	Soil		0.6	13.7	11.0	35	0.1	12.2	5.6	447	1.50	34.1	2.7	3.9	2.4	82	<0.1	7.5	0.1	28	0.91	0.065
1547798	Soil		0.5	19.7	11.9	40	<0.1	19.1	6.4	229	2.01	253.4	1.1	2.8	10.7	13	<0.1	379.9	0.2	20	0.14	0.040
1545778	Soil		1.1	29.5	17.1	75	0.2	23.3	7.5	222	2.47	30.5	1.4	9.1	6.4	21	0.2	2.2	0.2	30	0.28	0.058
1545780	Soil		0.9	27.0	14.7	60	0.3	19.1	7.4	292	2.05	22.0	2.7	3.8	4.4	33	0.2	2.8	0.2	34	0.46	0.062
1547806	Soil		1.8	16.6	11.4	35	0.1	15.8	7.4	270	2.84	129.3	2.9	4.6	3.5	50	<0.1	28.0	0.2	37	0.57	0.080
1547797	Soil		0.5	18.5	14.2	42	<0.1	18.4	8.0	263	2.11	26.5	1.5	2.1	13.6	8	<0.1	17.9	0.2	19	0.06	0.021
1545775	Soil		0.7	18.6	8.7	46	<0.1	17.2	6.0	189	1.84	25.3	0.7	6.1	4.2	20	<0.1	3.6	0.1	35	0.27	0.058
1547801	Soil		0.6	28.6	18.5	67	0.1	28.3	13.3	563	2.84	141.2	1.2	2.7	9.9	22	<0.1	70.1	0.3	21	0.37	0.062
1547799	Soil		0.8	21.7	17.1	59	<0.1	25.9	8.6	212	2.48	69.9	1.4	3.3	15.4	14	<0.1	31.0	0.2	13	0.17	0.054
1547805	Soil		0.6	19.1	11.4	39	0.1	16.3	7.3	309	1.74	43.6	2.2	4.1	3.1	53	0.2	18.2	0.2	29	0.62	0.059
1545774	Soil		0.8	15.3	8.5	46	<0.1	16.5	6.1	193	1.85	23.8	0.6	6.8	3.6	19	0.1	3.8	0.1	37	0.25	0.055
1547800	Soil		0.7	22.7	15.9	55	<0.1	24.7	8.1	247	2.45	57.9	1.6	2.7	12.8	15	<0.1	21.1	0.2	16	0.21	0.058
1547803	Soil		0.5	21.5	11.7	40	0.2	17.5	7.3	265	1.81	28.1	2.8	8.6	3.9	55	0.1	9.3	0.2	32	0.65	0.059
1547802	Soil		0.6	17.7	9.2	46	0.1	18.4	6.9	376	1.86	33.1	1.5	16.0	4.4	34	0.1	12.3	0.1	30	0.38	0.056
1547807	Soil		0.3	19.4	10.5	42	0.1	13.5	4.5	147	1.41	13.6	2.6	4.1	3.4	56	0.1	11.4	0.2	31	0.61	0.055
1547815	Soil		0.7	18.0	8.5	37	<0.1	12.1	4.2	131	1.57	29.5	0.8	3.5	4.1	16	<0.1	3.9	0.1	30	0.18	0.043

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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
1551288	Soil		22	9	0.17	127	0.011	<1	0.64	0.003	0.06	0.1	0.02	1.9	<0.1	<0.05	2	<0.5	<0.2
1545330	Soil		17	11	0.18	128	0.017	<1	0.57	0.003	0.04	<0.1	0.02	2.5	<0.1	<0.05	2	<0.5	<0.2
1545768	Soil		30	15	0.23	146	0.007	<1	0.92	0.008	0.07	0.1	0.03	2.1	0.1	<0.05	3	0.7	<0.2
1545766	Soil		11	27	0.38	157	0.030	<1	1.41	0.005	0.05	0.2	0.02	2.6	0.1	<0.05	4	<0.5	<0.2
1545335	Soil		11	24	0.36	179	0.032	<1	1.17	0.006	0.08	0.2	0.02	2.7	<0.1	<0.05	3	<0.5	<0.2
1545331	Soil		21	20	0.32	136	0.015	<1	0.99	0.004	0.06	0.1	0.04	3.4	0.1	<0.05	2	<0.5	<0.2
1545327	Soil		17	27	0.36	306	0.031	<1	1.02	0.008	0.06	0.2	0.05	5.1	<0.1	<0.05	3	<0.5	<0.2
1545769	Soil		11	26	0.35	412	0.027	<1	1.41	0.007	0.05	0.2	0.02	3.4	0.1	<0.05	4	<0.5	<0.2
1551291	Soil		18	21	0.32	273	0.024	<1	1.03	0.005	0.06	0.2	0.03	4.0	<0.1	<0.05	3	<0.5	<0.2
1545332	Soil		19	25	0.33	254	0.034	<1	1.03	0.005	0.07	0.1	0.05	4.9	0.1	<0.05	3	<0.5	<0.2
1551290	Soil		21	17	0.25	275	0.018	<1	0.86	0.005	0.05	0.2	0.03	3.1	<0.1	<0.05	2	<0.5	<0.2
1545767	Soil		22	13	0.15	107	0.005	<1	0.74	0.006	0.08	0.1	0.02	3.6	<0.1	<0.05	2	1.1	<0.2
1545781	Soil		20	18	0.31	701	0.011	<1	1.03	0.009	0.04	0.1	0.06	2.4	<0.1	<0.05	2	0.8	<0.2
1545776	Soil		18	22	0.45	201	0.029	<1	0.99	0.006	0.10	0.1	0.03	2.6	<0.1	<0.05	3	<0.5	<0.2
1547804	Soil		11	16	0.27	292	0.010	<1	0.86	0.006	0.03	0.1	0.05	2.5	<0.1	<0.05	2	<0.5	<0.2
1547798	Soil		31	13	0.15	194	0.007	<1	0.64	0.004	0.04	0.1	0.04	3.1	<0.1	<0.05	2	<0.5	<0.2
1545778	Soil		25	21	0.40	247	0.021	<1	1.12	0.007	0.08	0.1	0.04	2.7	<0.1	<0.05	4	<0.5	<0.2
1545780	Soil		17	21	0.39	368	0.020	<1	1.07	0.009	0.07	0.2	0.05	3.1	<0.1	<0.05	3	<0.5	<0.2
1547806	Soil		15	18	0.27	395	0.014	<1	1.02	0.006	0.03	0.2	0.05	3.1	<0.1	<0.05	3	<0.5	<0.2
1547797	Soil		39	13	0.14	134	0.008	<1	0.75	0.003	0.04	<0.1	0.04	3.2	<0.1	<0.05	2	<0.5	<0.2
1545775	Soil		13	20	0.36	269	0.033	<1	0.88	0.010	0.04	0.2	0.02	2.8	<0.1	<0.05	3	<0.5	<0.2
1547801	Soil		31	16	0.17	200	0.006	<1	0.74	0.006	0.04	0.1	0.05	4.7	<0.1	<0.05	2	<0.5	<0.2
1547799	Soil		39	12	0.25	159	0.004	<1	0.63	0.003	0.04	<0.1	0.02	3.1	<0.1	<0.05	2	<0.5	<0.2
1547805	Soil		15	15	0.25	328	0.012	<1	0.81	0.006	0.04	0.2	0.04	2.5	<0.1	<0.05	2	<0.5	<0.2
1545774	Soil		13	20	0.34	253	0.029	<1	0.90	0.007	0.04	0.2	0.02	2.4	<0.1	<0.05	3	<0.5	<0.2
1547800	Soil		40	12	0.19	196	0.006	<1	0.64	0.004	0.04	<0.1	0.02	3.6	<0.1	<0.05	2	<0.5	<0.2
1547803	Soil		15	18	0.27	300	0.014	<1	0.87	0.006	0.04	0.1	0.05	2.9	<0.1	<0.05	3	<0.5	<0.2
1547802	Soil		18	19	0.28	271	0.023	1	0.86	0.007	0.05	0.3	0.04	2.8	<0.1	<0.05	3	<0.5	<0.2
1547807	Soil		16	19	0.27	336	0.020	2	1.00	0.006	0.04	0.2	0.05	3.1	<0.1	<0.05	3	<0.5	<0.2
1547815	Soil		14	15	0.23	204	0.022	<1	0.73	0.004	0.04	0.2	0.01	2.2	<0.1	<0.05	2	<0.5	<0.2

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		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
1547813	Soil		0.6	14.8	8.1	40	<0.1	13.0	5.1	172	1.50	17.1	0.8	16.4	3.2	26	0.1	3.2	0.1	33	0.31	0.056
1545770	Soil		1.3	11.7	41.3	32	0.9	8.8	2.8	105	1.51	91.8	0.3	20.9	1.4	9	0.1	24.6	0.2	27	0.08	0.057
1547812	Soil		0.6	16.0	7.1	37	<0.1	11.8	4.9	197	1.29	30.0	0.6	4.0	3.4	19	<0.1	5.0	0.1	20	0.22	0.055
1547818	Soil		1.0	18.5	11.8	54	<0.1	21.9	8.9	218	2.53	21.3	0.6	1.5	5.0	13	0.1	2.2	0.2	54	0.12	0.033
1547810	Soil		0.7	15.4	10.4	41	0.1	13.6	8.3	363	2.04	37.5	1.5	3.1	2.7	53	<0.1	8.8	0.2	32	0.58	0.058
1545771	Soil		1.1	53.7	19.9	132	0.7	49.8	13.1	318	3.05	152.9	1.8	19.1	5.8	14	0.3	7.0	0.2	18	0.09	0.067
1547795	Soil		1.0	14.9	13.8	43	<0.1	15.6	6.6	206	2.43	16.9	1.0	5.1	5.3	8	0.1	14.9	0.2	31	0.06	0.035
1547809	Soil		0.5	12.7	7.4	36	<0.1	11.4	5.4	298	1.37	24.2	1.1	4.5	2.1	43	<0.1	8.5	0.2	28	0.47	0.062
1547808	Soil		0.5	20.5	13.2	49	0.2	16.9	8.1	203	1.73	24.7	1.7	6.4	4.1	38	0.1	8.1	0.2	33	0.45	0.057
1545779	Soil		1.0	30.7	16.0	68	0.2	23.7	6.6	191	2.41	23.9	1.8	5.2	6.6	22	0.1	2.0	0.2	30	0.29	0.056
1547791	Soil		1.0	25.2	12.7	50	<0.1	19.8	8.3	303	2.55	11.8	1.9	4.4	6.7	13	<0.1	1.8	0.3	51	0.10	0.022
1547811	Soil		0.9	15.7	9.8	35	0.1	14.6	9.5	442	1.96	29.4	1.8	3.8	2.3	46	<0.1	8.4	0.2	34	0.51	0.068
1547814	Soil		0.9	12.9	8.0	42	<0.1	15.1	6.9	197	2.18	16.1	0.5	2.4	3.3	20	<0.1	2.2	0.1	42	0.25	0.059
1547816	Soil		0.8	30.1	10.1	48	0.1	17.9	7.3	229	2.07	20.2	1.6	5.3	4.6	25	<0.1	2.8	0.2	41	0.29	0.060
1547817	Soil		0.8	21.0	8.0	43	<0.1	19.2	7.5	239	2.01	11.2	1.0	2.8	4.2	20	<0.1	1.1	0.2	45	0.23	0.045
1547792	Soil		0.3	29.0	9.0	58	<0.1	29.0	10.4	207	2.61	6.7	1.0	3.2	15.8	7	<0.1	9.5	0.2	14	0.06	0.028
1547789	Soil		0.7	19.4	9.4	47	<0.1	19.0	7.4	184	2.40	10.8	1.0	5.0	4.3	13	<0.1	1.0	0.2	49	0.17	0.054
1547794	Soil		1.0	15.9	13.9	49	<0.1	17.7	8.0	241	2.59	51.9	0.9	3.9	6.6	11	<0.1	18.8	0.2	48	0.10	0.026
1545338	Soil		0.9	27.7	10.8	47	<0.1	23.0	7.5	226	2.22	24.6	0.8	2.2	4.1	20	<0.1	5.2	0.2	42	0.22	0.069
1545333	Soil		0.8	25.0	9.0	45	<0.1	19.4	7.4	273	2.01	50.9	0.9	7.3	4.0	13	<0.1	15.4	0.2	36	0.10	0.020
1547788	Soil		0.7	15.2	10.2	34	<0.1	12.6	6.3	247	1.76	10.9	1.1	2.6	4.0	14	<0.1	3.2	0.2	34	0.16	0.062
1547793	Soil		0.9	19.3	11.9	52	<0.1	18.5	7.7	209	2.58	11.9	1.2	2.8	9.2	10	<0.1	5.7	0.2	40	0.10	0.027
1551292	Soil		1.1	36.5	13.1	60	<0.1	24.2	7.9	239	2.27	79.9	1.1	9.8	6.4	19	<0.1	20.4	0.2	28	0.19	0.052
1545342	Soil		1.0	28.1	8.5	45	<0.1	23.1	7.2	233	2.27	27.7	0.8	5.4	4.8	19	<0.1	4.7	0.2	41	0.24	0.053
1547790	Soil		0.8	20.3	9.3	44	<0.1	18.2	6.4	162	2.23	9.7	1.1	4.5	5.3	11	<0.1	1.9	0.2	40	0.12	0.033
1547796	Soil		0.8	19.1	15.7	47	0.1	28.3	9.7	388	2.50	14.6	1.1	1.2	5.0	24	<0.1	5.4	0.2	46	0.31	0.061
1551294	Soil		1.3	49.7	14.7	70	0.1	26.9	8.2	287	2.51	138.0	1.2	16.4	6.9	17	0.1	23.9	0.2	21	0.12	0.056
1545340	Soil		0.7	23.5	9.3	47	<0.1	21.9	7.9	271	2.17	39.0	0.6	2.9	4.4	17	<0.1	6.4	0.1	37	0.20	0.049
1545341	Soil		1.0	39.0	11.0	65	0.2	39.6	12.1	499	2.98	48.4	0.9	4.4	6.1	17	<0.1	10.2	0.2	44	0.22	0.041
1547787	Soil		0.6	26.1	9.1	36	<0.1	16.0	6.0	168	2.00	12.0	1.1	10.1	5.6	12	<0.1	3.8	0.3	38	0.13	0.026

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Project: SUM
Report Date: September 07, 2017

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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
1547813	Soil		13	18	0.28	231	0.022	<1	0.81	0.006	0.04	0.2	0.04	2.6	<0.1	<0.05	3	<0.5	<0.2
1545770	Soil		11	11	0.13	157	0.019	<1	0.50	0.004	0.07	0.1	0.04	1.2	0.2	<0.05	3	0.7	0.2
1547812	Soil		12	10	0.19	125	0.017	<1	0.48	0.004	0.04	0.1	0.02	1.7	<0.1	<0.05	2	<0.5	<0.2
1547818	Soil		13	30	0.37	245	0.046	2	1.90	0.006	0.06	0.2	0.01	3.0	0.1	<0.05	5	<0.5	<0.2
1547810	Soil		14	19	0.28	297	0.019	2	1.00	0.006	0.05	0.2	0.05	2.6	<0.1	<0.05	3	0.7	<0.2
1545771	Soil		25	22	0.31	162	0.008	1	1.09	0.003	0.13	0.1	0.08	2.1	<0.1	<0.05	3	<0.5	<0.2
1547795	Soil		30	18	0.21	110	0.010	<1	1.10	0.005	0.05	0.2	0.03	1.9	<0.1	<0.05	3	<0.5	<0.2
1547809	Soil		12	14	0.24	220	0.015	<1	0.69	0.005	0.03	0.2	0.05	1.9	<0.1	<0.05	2	<0.5	<0.2
1547808	Soil		17	21	0.32	355	0.018	1	1.05	0.007	0.05	0.2	0.06	3.6	<0.1	<0.05	3	<0.5	<0.2
1545779	Soil		26	24	0.43	261	0.023	1	1.26	0.007	0.10	0.1	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2
1547791	Soil		20	35	0.43	273	0.044	<1	1.61	0.007	0.05	0.2	0.03	6.1	0.1	<0.05	5	<0.5	<0.2
1547811	Soil		14	19	0.27	346	0.013	<1	0.99	0.007	0.03	0.3	0.04	2.8	<0.1	<0.05	3	<0.5	<0.2
1547814	Soil		12	22	0.35	160	0.035	<1	1.02	0.007	0.04	0.2	0.02	2.4	<0.1	<0.05	3	<0.5	<0.2
1547816	Soil		19	24	0.38	353	0.031	<1	1.16	0.008	0.05	0.2	0.05	3.9	<0.1	<0.05	3	<0.5	<0.2
1547817	Soil		14	26	0.39	295	0.041	<1	1.12	0.008	0.04	0.2	0.02	4.3	<0.1	<0.05	3	<0.5	<0.2
1547792	Soil		44	18	0.55	118	0.007	<1	1.30	0.003	0.03	<0.1	0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
1547789	Soil		16	28	0.45	177	0.042	<1	1.55	0.008	0.05	0.2	0.02	3.7	0.1	<0.05	4	<0.5	<0.2
1547794	Soil		17	28	0.37	204	0.031	<1	1.65	0.006	0.05	0.2	0.03	3.4	0.1	<0.05	4	<0.5	<0.2
1545338	Soil		14	27	0.44	209	0.036	<1	1.05	0.007	0.08	0.2	0.02	3.6	0.1	<0.05	3	<0.5	<0.2
1545333	Soil		17	23	0.35	201	0.032	<1	0.99	0.006	0.05	0.1	0.02	3.7	<0.1	<0.05	3	<0.5	<0.2
1547788	Soil		14	20	0.27	180	0.022	<1	0.94	0.007	0.05	0.1	0.03	2.4	<0.1	<0.05	3	<0.5	<0.2
1547793	Soil		30	26	0.39	154	0.027	<1	1.41	0.005	0.04	0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
1551292	Soil		20	18	0.25	257	0.027	<1	0.85	0.006	0.07	0.2	0.03	3.3	<0.1	<0.05	2	<0.5	<0.2
1545342	Soil		13	29	0.39	168	0.039	<1	1.01	0.007	0.10	0.1	0.01	4.1	<0.1	<0.05	3	<0.5	<0.2
1547790	Soil		22	24	0.42	166	0.031	<1	1.34	0.006	0.04	0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
1547796	Soil		27	37	0.51	265	0.021	<1	1.35	0.006	0.04	0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
1551294	Soil		21	12	0.19	228	0.013	<1	0.67	0.004	0.10	0.2	0.04	2.8	<0.1	<0.05	2	0.5	<0.2
1545340	Soil		12	32	0.49	171	0.035	<1	0.99	0.006	0.10	0.1	0.01	3.4	<0.1	<0.05	3	<0.5	<0.2
1545341	Soil		16	73	0.94	180	0.019	<1	1.46	0.006	0.13	0.1	0.02	6.3	<0.1	<0.05	4	<0.5	<0.2
1547787	Soil		21	24	0.40	184	0.036	<1	1.25	0.006	0.04	0.2	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2

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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
1545303	Soil		0.9	26.4	9.6	53	<0.1	20.5	8.4	303	2.25	22.6	1.1	4.6	4.2	21	<0.1	4.7	0.2	46	0.24	0.057
1551300	Soil		1.4	50.3	11.1	69	0.1	32.2	9.5	407	2.51	102.5	1.0	12.5	5.8	18	0.1	38.5	0.2	28	0.18	0.040
1551297	Soil		1.1	45.0	12.4	69	<0.1	26.1	8.9	345	2.30	90.7	1.3	10.9	6.9	14	0.2	52.8	0.2	23	0.10	0.045
1545336	Soil		1.2	41.3	12.0	58	<0.1	31.0	8.9	235	2.48	54.1	1.2	5.4	6.1	12	0.1	11.4	0.2	35	0.10	0.030
1545312	Soil		0.8	14.9	9.0	39	0.2	17.0	6.6	211	1.88	20.8	0.5	1.5	3.5	16	<0.1	2.8	0.1	36	0.17	0.038
1551295	Soil		1.2	33.1	11.0	59	<0.1	23.6	8.8	278	2.36	61.1	0.9	9.6	5.4	16	0.1	9.4	0.2	38	0.11	0.022
1545328	Soil		0.8	33.4	8.2	57	<0.1	24.9	7.0	297	2.17	47.2	0.8	6.0	4.3	34	<0.1	10.0	0.2	44	0.32	0.066
1551299	Soil		1.4	53.5	11.7	69	0.1	34.6	10.0	470	2.56	111.3	1.1	12.9	6.2	18	<0.1	44.1	0.2	27	0.19	0.037
1545329	Soil		1.0	33.9	11.7	53	0.1	22.2	8.8	263	2.44	83.3	1.1	12.4	6.2	12	<0.1	60.7	0.2	37	0.08	0.022
1545337	Soil		2.6	89.5	29.8	99	0.2	47.6	12.4	325	3.26	255.9	0.9	8.1	8.1	26	<0.1	25.4	0.2	22	0.09	0.052
1551289	Soil		0.9	31.9	12.5	67	<0.1	22.7	7.8	278	2.24	76.6	1.1	7.9	8.0	11	0.1	8.0	0.2	17	0.10	0.042
1545339	Soil		1.1	39.9	15.2	66	0.1	32.1	9.5	359	2.72	64.5	0.6	14.2	5.5	16	<0.1	13.5	0.2	38	0.15	0.040
1545326	Soil		0.9	30.7	11.3	54	<0.1	20.9	7.7	279	2.23	26.0	1.7	8.9	4.1	26	<0.1	6.0	0.3	42	0.28	0.073
1545343	Soil		0.9	38.7	9.6	46	0.1	28.2	9.1	256	2.54	33.1	1.2	37.8	6.3	16	<0.1	5.4	0.3	46	0.18	0.027
1551296	Soil		0.8	28.7	10.9	54	0.1	22.1	7.8	274	2.30	26.6	1.3	6.4	4.7	23	<0.1	7.2	0.3	41	0.24	0.061
1545334	Soil		1.1	58.5	22.8	95	0.1	33.5	8.9	193	3.16	237.3	1.1	26.1	11.3	13	0.1	33.9	0.4	19	0.03	0.042
1545293	Soil		0.8	31.1	10.3	51	<0.1	18.3	6.9	259	2.03	44.6	1.0	7.5	5.6	20	<0.1	7.1	0.2	32	0.20	0.046
1545311	Soil		0.9	32.8	10.7	54	0.1	22.4	7.8	260	2.40	21.3	1.1	4.8	5.9	20	<0.1	3.4	0.3	43	0.20	0.048
1545304	Soil		1.2	65.7	15.0	74	<0.1	31.2	11.4	517	2.81	157.7	1.1	16.5	5.9	13	0.1	61.4	0.3	40	0.08	0.033
1545301	Soil		1.1	44.7	12.6	58	0.1	22.7	8.1	300	2.35	91.9	1.3	11.8	5.9	12	<0.1	22.6	0.2	30	0.09	0.043
1545291	Soil		1.0	35.0	14.0	59	<0.1	22.3	7.8	251	2.38	45.5	1.5	8.3	5.9	20	<0.1	4.6	0.3	41	0.18	0.036
1545309	Soil		0.8	20.0	9.7	48	0.2	19.7	8.5	226	2.34	17.5	0.5	1.2	3.9	15	<0.1	2.2	0.3	49	0.15	0.058
1545302	Soil		0.9	39.4	11.7	60	<0.1	23.4	9.7	308	2.35	49.0	1.2	9.5	5.7	15	<0.1	11.0	0.3	44	0.13	0.040
1545310	Soil		0.8	28.3	11.2	54	0.1	25.0	8.5	205	2.34	26.7	0.6	1.5	5.1	16	<0.1	3.2	0.3	37	0.13	0.030
1545287	Soil		0.9	29.3	12.1	57	<0.1	20.1	7.1	253	2.21	32.0	1.1	13.5	3.7	23	<0.1	3.5	0.2	36	0.25	0.070
1545297	Soil		1.1	38.1	12.8	59	<0.1	22.3	8.7	294	2.46	87.9	1.3	13.8	6.5	16	<0.1	39.7	0.2	32	0.12	0.039
1545308	Soil		0.9	23.5	10.7	43	0.2	23.3	9.0	214	2.28	14.5	0.6	4.2	4.4	17	<0.1	1.8	0.2	50	0.16	0.033
1545305	Soil		1.0	42.1	11.7	54	0.1	22.8	8.4	264	2.41	90.7	1.1	15.2	6.1	16	<0.1	36.3	0.2	33	0.12	0.026
1545295	Soil		1.1	48.1	14.3	68	<0.1	25.3	8.7	285	2.50	116.1	1.4	14.9	7.5	15	<0.1	26.3	0.2	24	0.07	0.039
1545298	Soil		1.1	39.2	11.0	62	<0.1	22.4	7.7	280	2.33	81.1	1.0	9.3	6.3	11	<0.1	31.9	0.2	29	0.09	0.053

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	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
1545303	Soil	16	28	0.41	324	0.041	<1	1.21	0.009	0.05	0.2	0.03	5.0	<0.1	<0.05	4	<0.5	<0.2
1551300	Soil	17	19	0.35	291	0.015	<1	0.92	0.005	0.07	0.1	0.04	3.2	<0.1	<0.05	3	<0.5	<0.2
1551297	Soil	18	13	0.26	175	0.017	<1	0.66	0.004	0.07	0.1	0.04	2.9	<0.1	<0.05	2	<0.5	<0.2
1545336	Soil	19	22	0.32	122	0.028	<1	0.88	0.006	0.08	0.2	0.02	3.3	<0.1	<0.05	3	<0.5	<0.2
1545312	Soil	12	21	0.36	215	0.030	<1	0.93	0.006	0.08	0.2	<0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
1551295	Soil	19	24	0.36	346	0.034	<1	1.14	0.007	0.06	0.2	0.05	4.6	<0.1	<0.05	3	<0.5	<0.2
1545328	Soil	14	26	0.39	240	0.042	<1	0.99	0.011	0.06	0.1	0.05	4.8	<0.1	<0.05	3	<0.5	<0.2
1551299	Soil	19	19	0.35	311	0.014	<1	0.93	0.004	0.07	0.1	0.04	3.3	<0.1	<0.05	3	<0.5	<0.2
1545329	Soil	19	23	0.35	223	0.033	<1	1.18	0.007	0.06	0.2	0.03	4.4	<0.1	<0.05	3	<0.5	<0.2
1545337	Soil	26	16	0.43	189	0.003	<1	0.95	0.007	0.12	<0.1	<0.01	2.4	0.2	<0.05	3	<0.5	<0.2
1551289	Soil	23	11	0.21	198	0.014	<1	0.60	0.004	0.07	0.1	0.02	2.4	<0.1	<0.05	2	<0.5	<0.2
1545339	Soil	18	47	0.78	194	0.017	<1	1.23	0.006	0.11	0.1	0.01	4.4	<0.1	<0.05	4	<0.5	<0.2
1545326	Soil	18	25	0.39	388	0.036	<1	1.10	0.009	0.05	0.2	0.05	4.2	0.1	<0.05	3	<0.5	<0.2
1545343	Soil	18	33	0.46	156	0.035	<1	1.14	0.007	0.11	0.2	0.04	5.7	<0.1	<0.05	4	<0.5	<0.2
1551296	Soil	17	26	0.41	348	0.039	1	1.12	0.009	0.05	0.2	0.04	4.6	<0.1	<0.05	3	<0.5	<0.2
1545334	Soil	27	16	0.25	109	0.004	<1	0.93	0.003	0.14	<0.1	0.02	1.9	0.1	<0.05	2	0.6	<0.2
1545293	Soil	18	18	0.31	263	0.037	<1	0.92	0.007	0.04	0.2	0.03	3.0	<0.1	<0.05	3	<0.5	<0.2
1545311	Soil	19	28	0.42	300	0.035	<1	1.29	0.007	0.06	0.2	0.03	3.9	<0.1	<0.05	4	<0.5	<0.2
1545304	Soil	20	27	0.58	242	0.015	<1	1.05	0.004	0.06	0.1	0.03	5.9	<0.1	<0.05	3	<0.5	<0.2
1545301	Soil	21	20	0.33	210	0.019	<1	1.01	0.004	0.06	0.2	0.03	2.8	<0.1	<0.05	3	<0.5	<0.2
1545291	Soil	22	26	0.38	392	0.039	<1	1.34	0.008	0.05	0.2	0.05	4.5	<0.1	<0.05	4	<0.5	<0.2
1545309	Soil	11	26	0.41	160	0.035	<1	1.36	0.005	0.07	0.2	0.02	2.6	0.2	<0.05	4	<0.5	<0.2
1545302	Soil	20	27	0.45	272	0.035	1	1.42	0.007	0.05	0.2	0.06	4.8	0.1	<0.05	4	<0.5	<0.2
1545310	Soil	17	22	0.37	184	0.033	<1	1.07	0.006	0.09	0.1	0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
1545287	Soil	21	22	0.35	309	0.032	<1	1.03	0.008	0.05	0.2	0.03	3.3	<0.1	<0.05	3	<0.5	<0.2
1545297	Soil	22	20	0.29	244	0.022	<1	1.01	0.005	0.06	0.2	0.03	3.5	0.1	<0.05	3	0.6	<0.2
1545308	Soil	13	30	0.45	268	0.041	<1	1.62	0.007	0.05	0.2	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
1545305	Soil	25	22	0.40	303	0.022	<1	1.03	0.006	0.05	0.1	0.03	3.6	<0.1	<0.05	3	<0.5	<0.2
1545295	Soil	24	15	0.23	228	0.018	<1	0.72	0.004	0.08	0.2	0.04	2.9	<0.1	<0.05	2	0.6	<0.2
1545298	Soil	23	18	0.31	163	0.018	<1	0.94	0.004	0.06	0.1	0.02	2.4	<0.1	<0.05	3	<0.5	<0.2

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Dawson City Yukon Y0B 1G0 Canada

Project: SUM
Report Date: September 07, 2017

CERTIFICATE OF ANALYSIS WHI17000674.1

		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
1545307	Soil		1.1	30.1	10.5	44	<0.1	16.5	6.0	200	2.03	62.6	0.8	5.7	4.9	11	<0.1	13.3	0.2	34	0.06	0.023
1545306	Soil		1.1	28.9	13.6	52	0.3	19.8	7.7	229	2.95	17.7	1.8	3.5	6.0	16	<0.1	2.4	0.3	62	0.16	0.028
1548363	Soil		0.8	35.4	12.9	55	<0.1	24.0	8.4	276	2.16	45.0	0.7	2.7	4.4	17	<0.1	11.6	0.2	38	0.19	0.046
1548365	Soil		0.7	21.0	9.5	43	<0.1	22.4	8.4	252	2.17	41.2	0.7	2.3	4.3	17	<0.1	8.0	0.2	43	0.20	0.052
1545294	Soil		1.1	43.8	13.7	65	<0.1	23.0	8.0	272	2.45	99.4	1.3	14.6	7.3	16	<0.1	18.2	0.2	26	0.10	0.037
1545289	Soil		0.9	35.4	12.4	71	<0.1	24.7	7.9	258	2.25	71.7	1.3	8.1	9.0	16	0.1	8.2	0.2	20	0.15	0.056
1545299	Soil		0.7	19.0	9.2	40	0.1	21.9	9.1	250	2.13	35.2	0.7	1.6	4.5	18	<0.1	2.7	0.2	40	0.23	0.041
1545318	Soil		0.6	14.9	8.9	45	0.2	19.9	8.8	267	2.01	21.4	0.5	3.6	4.3	20	<0.1	2.4	0.2	39	0.25	0.087
1545296	Soil		1.1	33.9	11.6	56	0.2	20.7	8.1	242	2.34	62.0	1.1	10.6	6.2	12	0.1	25.3	0.2	39	0.08	0.022
1545288	Soil		0.8	33.3	11.6	65	<0.1	22.7	7.1	241	2.14	51.2	1.2	4.8	6.9	18	<0.1	5.7	0.2	24	0.18	0.061
1545317	Soil		0.8	23.5	9.0	43	<0.1	22.6	8.6	217	2.32	21.0	0.7	2.0	5.1	18	<0.1	2.5	0.2	42	0.22	0.027
1545300	Soil		0.6	19.8	9.5	41	0.1	22.3	9.5	277	2.13	35.1	0.7	3.8	4.4	18	<0.1	2.7	0.2	41	0.24	0.039
1545313	Soil		1.7	51.0	16.9	81	0.2	41.9	14.8	497	2.80	76.0	1.4	2.4	8.3	22	0.1	19.4	0.3	23	0.14	0.072
1545290	Soil		1.0	38.1	12.2	68	<0.1	25.2	7.9	246	2.33	67.5	1.3	8.8	6.3	20	<0.1	8.0	0.2	33	0.18	0.039
1545314	Soil		0.8	21.9	9.4	44	<0.1	23.2	8.4	203	2.06	30.0	0.6	3.5	4.8	15	<0.1	5.1	0.1	36	0.16	0.016
1545315	Soil		0.9	26.5	11.3	45	0.1	26.0	10.5	419	2.20	33.9	0.7	1.8	4.9	21	<0.1	7.5	0.2	36	0.29	0.047
1545316	Soil		0.8	18.5	8.5	38	<0.1	19.5	8.2	352	2.15	17.7	0.5	6.0	4.4	19	<0.1	2.4	0.2	43	0.27	0.033
1545292	Soil		0.9	35.2	11.2	55	<0.1	23.2	7.3	218	2.13	61.3	1.2	8.8	6.1	17	<0.1	8.4	0.2	34	0.12	0.024
1548357	Soil		0.8	24.2	8.6	48	<0.1	20.2	7.2	245	2.03	39.6	1.0	7.9	4.0	15	<0.1	12.3	0.2	39	0.15	0.031
1548354	Soil		1.1	41.3	12.4	57	0.2	24.5	7.8	204	2.32	140.5	0.7	12.3	5.8	9	<0.1	40.4	0.2	27	0.04	0.027
1548359	Soil		0.8	23.0	9.9	47	0.2	19.1	6.5	228	1.98	48.5	0.6	5.1	3.6	16	<0.1	8.9	0.2	39	0.17	0.049
1548362	Soil		0.9	58.4	12.8	84	0.2	62.9	17.1	545	3.38	42.6	0.5	1.7	2.6	14	<0.1	6.6	0.1	81	0.16	0.027
1548350	Soil		0.8	27.6	10.5	46	0.2	18.0	6.3	175	2.25	77.7	1.2	7.7	5.2	14	<0.1	6.2	0.2	34	0.15	0.035
1548347	Soil		1.2	31.8	12.0	70	0.2	25.8	10.0	307	2.68	31.5	1.5	3.8	5.7	13	<0.1	3.7	0.2	47	0.10	0.024
1548364	Soil		0.6	17.4	9.7	41	0.1	21.0	9.3	404	2.18	31.1	0.5	0.8	3.2	16	<0.1	6.0	0.1	43	0.21	0.033
1548361	Soil		0.7	45.9	11.1	61	0.1	39.3	10.0	318	2.72	48.0	0.8	8.3	4.6	17	<0.1	9.9	0.1	57	0.20	0.040
1548358	Soil		0.9	28.5	10.8	57	0.2	21.3	7.7	255	2.20	72.6	0.7	4.3	5.1	13	<0.1	18.7	0.2	32	0.13	0.083
1548356	Soil		0.9	17.2	11.0	38	0.4	15.2	5.7	157	2.09	61.0	0.6	5.9	2.6	11	<0.1	15.7	0.2	43	0.11	0.056
1548355	Soil		0.8	24.5	8.6	48	<0.1	21.8	6.9	198	2.05	44.7	0.7	11.4	4.4	11	<0.1	13.8	0.1	36	0.09	0.025
1548360	Soil		0.5	37.7	6.2	59	<0.1	41.4	13.7	436	2.90	26.7	0.4	6.3	2.8	11	<0.1	6.2	<0.1	87	0.14	0.024

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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
1545307	Soil		22	20	0.33	182	0.019	<1	1.03	0.004	0.06	0.1	0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
1545306	Soil		19	36	0.46	320	0.050	<1	1.82	0.010	0.05	0.2	0.03	5.1	0.1	<0.05	6	<0.5	<0.2
1548363	Soil		13	27	0.43	134	0.030	<1	0.86	0.007	0.08	0.3	0.04	2.7	<0.1	<0.05	3	<0.5	<0.2
1548365	Soil		11	32	0.42	165	0.043	<1	0.91	0.007	0.09	0.2	0.02	3.6	<0.1	<0.05	3	<0.5	<0.2
1545294	Soil		24	17	0.24	247	0.021	<1	0.87	0.004	0.07	0.2	0.04	3.1	<0.1	<0.05	3	<0.5	<0.2
1545289	Soil		26	13	0.22	222	0.018	<1	0.68	0.004	0.06	0.1	0.02	2.3	<0.1	<0.05	2	<0.5	<0.2
1545299	Soil		13	24	0.34	220	0.040	<1	1.07	0.008	0.10	0.2	0.02	2.9	<0.1	<0.05	3	<0.5	<0.2
1545318	Soil		13	23	0.38	241	0.040	<1	1.01	0.007	0.09	0.2	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
1545296	Soil		20	22	0.30	191	0.031	<1	1.16	0.005	0.05	0.2	0.03	3.3	<0.1	<0.05	3	<0.5	<0.2
1545288	Soil		24	16	0.25	247	0.024	<1	0.81	0.005	0.06	0.2	0.03	2.6	<0.1	<0.05	2	<0.5	<0.2
1545317	Soil		14	28	0.34	206	0.046	<1	1.14	0.007	0.10	0.2	0.01	3.9	<0.1	<0.05	3	<0.5	<0.2
1545300	Soil		13	25	0.35	222	0.040	<1	1.07	0.007	0.10	0.2	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
1545313	Soil		31	15	0.22	226	0.015	<1	0.74	0.005	0.12	0.1	0.02	2.0	<0.1	<0.05	2	<0.5	<0.2
1545290	Soil		25	17	0.26	234	0.035	<1	0.91	0.007	0.06	0.2	0.02	2.9	<0.1	<0.05	3	<0.5	<0.2
1545314	Soil		16	23	0.38	171	0.033	<1	1.03	0.005	0.08	0.2	0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
1545315	Soil		15	23	0.30	241	0.037	1	0.96	0.006	0.14	0.2	0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
1545316	Soil		12	26	0.33	258	0.042	<1	0.99	0.008	0.10	0.2	0.01	3.2	<0.1	<0.05	3	<0.5	<0.2
1545292	Soil		22	19	0.27	293	0.031	<1	0.94	0.006	0.05	0.2	0.03	3.3	<0.1	<0.05	3	<0.5	<0.2
1548357	Soil		13	23	0.37	230	0.033	<1	1.01	0.006	0.04	0.1	0.03	3.6	<0.1	<0.05	3	<0.5	<0.2
1548354	Soil		17	17	0.28	102	0.011	<1	0.96	0.003	0.06	0.1	0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
1548359	Soil		15	21	0.35	263	0.026	<1	1.00	0.005	0.07	0.2	0.02	2.2	<0.1	<0.05	3	<0.5	<0.2
1548362	Soil		8	169	1.68	190	0.031	1	1.91	0.004	0.11	0.1	0.01	9.1	<0.1	<0.05	5	<0.5	<0.2
1548350	Soil		22	21	0.32	350	0.022	<1	1.09	0.006	0.09	0.2	0.03	3.6	0.1	<0.05	3	<0.5	<0.2
1548347	Soil		20	30	0.37	287	0.040	<1	1.46	0.007	0.06	0.2	0.03	5.2	0.1	<0.05	4	<0.5	<0.2
1548364	Soil		10	37	0.47	188	0.034	2	1.01	0.006	0.12	0.2	<0.01	3.6	<0.1	<0.05	3	<0.5	<0.2
1548361	Soil		13	67	0.96	256	0.039	<1	1.36	0.007	0.06	0.2	0.03	7.6	<0.1	<0.05	4	<0.5	<0.2
1548358	Soil		18	18	0.31	157	0.022	<1	0.90	0.004	0.07	0.2	<0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
1548356	Soil		13	20	0.28	167	0.028	<1	1.00	0.005	0.07	0.2	0.03	2.2	<0.1	<0.05	4	<0.5	<0.2
1548355	Soil		13	23	0.34	163	0.029	<1	1.05	0.005	0.05	0.1	0.02	3.0	<0.1	<0.05	3	<0.5	<0.2
1548360	Soil		11	94	1.48	153	0.056	1	1.68	0.004	0.09	0.1	<0.01	13.1	0.1	<0.05	5	<0.5	<0.2

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		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
1548348	Soil		0.8	24.4	8.5	45	<0.1	19.8	7.0	205	2.06	32.5	0.9	3.8	5.0	17	<0.1	4.5	0.1	36	0.17	0.043
1548351	Soil		1.7	26.9	13.6	22	<0.1	11.0	3.7	93	1.37	115.7	0.5	12.6	4.0	10	<0.1	12.9	0.2	25	0.06	0.014
1548353	Soil		1.0	35.8	11.7	52	0.1	22.9	8.5	256	2.34	74.8	1.1	7.4	5.8	10	<0.1	19.2	0.2	35	0.06	0.015
1548366	Soil		0.7	18.9	9.0	37	<0.1	21.9	8.6	303	2.19	36.0	0.5	1.5	3.3	15	<0.1	12.1	0.2	43	0.19	0.029
1548341	Soil		1.0	36.5	11.3	57	<0.1	22.6	7.4	247	2.18	87.2	1.0	21.2	5.9	12	<0.1	11.7	0.2	23	0.09	0.034
1548345	Soil		1.0	27.5	10.4	47	<0.1	19.2	7.6	246	2.22	47.6	1.2	6.5	3.8	21	<0.1	3.4	0.1	46	0.20	0.048
1548344	Soil		0.8	15.5	10.3	32	<0.1	12.1	4.7	133	1.65	27.4	0.7	3.7	3.1	13	<0.1	2.6	0.1	36	0.12	0.038
1548352	Soil		0.9	22.1	12.3	51	0.2	17.7	6.2	171	2.17	60.5	1.6	10.6	4.1	22	<0.1	10.8	0.2	43	0.27	0.077
1548346	Soil		1.0	28.7	11.2	49	<0.1	21.5	7.6	244	2.22	26.0	1.2	4.2	4.9	20	<0.1	2.8	0.2	41	0.20	0.043
1548343	Soil		1.4	31.1	14.1	47	<0.1	22.7	7.6	257	2.14	45.8	1.2	13.8	4.1	23	<0.1	5.3	0.2	46	0.23	0.029
1548342	Soil		0.9	30.8	11.1	50	<0.1	21.8	7.6	240	2.32	66.6	0.9	6.6	5.1	12	0.1	8.4	0.2	32	0.08	0.023
1548349	Soil		0.9	32.8	12.1	46	0.2	19.2	6.4	190	2.39	122.3	1.1	7.6	5.2	15	0.1	9.8	0.2	29	0.15	0.038
1548338	Soil		0.9	33.7	13.1	67	<0.1	23.9	8.6	337	2.38	70.1	1.2	8.3	6.3	12	0.1	11.1	0.2	21	0.12	0.048
1548340	Soil		0.9	30.1	10.7	51	<0.1	21.6	8.1	272	2.26	48.6	0.9	7.1	4.7	20	<0.1	6.1	0.2	35	0.21	0.051
1548339	Soil		1.0	38.8	12.8	69	<0.1	27.8	8.8	326	2.51	72.3	0.9	8.1	5.6	18	<0.1	8.1	0.2	31	0.17	0.046
1548336	Soil		0.9	25.4	10.4	50	<0.1	18.8	6.8	211	2.33	37.3	1.0	5.4	3.9	16	<0.1	3.2	0.2	42	0.16	0.047
1548335	Soil		1.0	32.8	11.5	64	0.1	22.0	7.0	237	2.40	60.4	1.4	11.1	6.2	15	<0.1	5.9	0.2	29	0.13	0.036
1548337	Soil		0.9	33.2	10.0	59	<0.1	23.4	7.2	257	2.28	33.3	0.9	5.5	4.4	22	<0.1	3.7	0.2	40	0.22	0.044

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Project: SUM
Report Date: September 07, 2017

CERTIFICATE OF ANALYSIS WHI17000674.1

		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
1548348	Soil		18	22	0.32	206	0.033	<1	0.84	0.006	0.06	0.2	0.04	4.9	<0.1	<0.05	3	<0.5	<0.2
1548351	Soil		23	15	0.19	147	0.019	<1	0.67	0.004	0.06	0.1	0.02	2.0	<0.1	<0.05	2	0.8	<0.2
1548353	Soil		22	22	0.36	172	0.030	<1	1.21	0.005	0.05	0.1	0.02	3.7	<0.1	<0.05	3	<0.5	<0.2
1548366	Soil		11	37	0.49	204	0.037	1	1.01	0.006	0.12	0.2	<0.01	3.9	0.1	<0.05	3	<0.5	<0.2
1548341	Soil		20	14	0.19	236	0.015	<1	0.67	0.004	0.06	0.2	0.04	2.5	<0.1	<0.05	2	<0.5	<0.2
1548345	Soil		15	26	0.37	328	0.040	1	1.24	0.007	0.05	0.2	0.08	5.4	<0.1	<0.05	3	0.5	<0.2
1548344	Soil		15	21	0.30	179	0.028	<1	0.98	0.006	0.04	0.2	0.04	2.7	<0.1	<0.05	3	<0.5	<0.2
1548352	Soil		18	26	0.40	324	0.030	1	1.20	0.008	0.05	0.2	0.04	3.6	<0.1	<0.05	4	0.5	<0.2
1548346	Soil		20	25	0.35	377	0.033	<1	1.10	0.007	0.06	0.2	0.05	4.4	0.1	<0.05	3	0.5	<0.2
1548343	Soil		14	27	0.33	334	0.047	1	1.15	0.008	0.06	0.2	0.04	5.0	<0.1	<0.05	4	<0.5	<0.2
1548342	Soil		19	19	0.26	221	0.026	<1	0.97	0.005	0.05	0.2	0.01	3.4	<0.1	<0.05	3	<0.5	<0.2
1548349	Soil		25	18	0.26	344	0.016	<1	0.84	0.005	0.10	0.2	0.03	3.4	0.1	<0.05	2	<0.5	<0.2
1548338	Soil		21	13	0.25	246	0.017	1	0.74	0.004	0.07	0.4	0.02	2.5	<0.1	<0.05	2	<0.5	<0.2
1548340	Soil		17	20	0.34	362	0.031	1	0.92	0.007	0.05	0.2	0.03	3.7	<0.1	<0.05	3	<0.5	<0.2
1548339	Soil		22	18	0.31	327	0.025	<1	0.88	0.006	0.07	0.2	0.03	3.6	<0.1	<0.05	2	<0.5	<0.2
1548336	Soil		17	25	0.36	268	0.034	2	1.27	0.007	0.05	0.2	0.03	4.1	<0.1	<0.05	4	<0.5	<0.2
1548335	Soil		22	17	0.26	260	0.024	1	0.87	0.005	0.05	0.1	0.04	3.3	<0.1	<0.05	2	<0.5	<0.2
1548337	Soil		16	24	0.39	366	0.037	1	1.12	0.008	0.05	0.2	0.04	4.8	<0.1	<0.05	3	<0.5	<0.2

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QUALITY CONTROL REPORT WHI17000674.1

		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
Pulp Duplicates																						
1546043	Soil		1.5	36.5	10.1	75	0.1	29.0	7.7	269	2.71	124.2	1.5	10.5	3.0	10	0.1	13.3	0.2	26	0.09	0.046
REP 1546043	QC		1.6	37.8	10.2	80	0.1	29.9	8.2	285	2.90	124.0	1.5	11.5	3.3	11	0.1	12.9	0.2	29	0.10	0.049
1548047	Soil		0.7	23.8	9.3	43	<0.1	17.5	6.5	219	2.06	21.0	0.9	5.0	4.9	16	<0.1	2.7	0.2	41	0.15	0.032
REP 1548047	QC		0.7	24.0	9.3	43	<0.1	17.1	6.3	216	1.94	20.7	0.9	2.9	4.9	16	<0.1	2.4	0.2	39	0.15	0.034
1539062	Soil		0.7	21.6	7.1	35	<0.1	13.0	4.7	161	1.44	37.3	0.7	8.0	3.6	13	<0.1	9.3	0.1	23	0.13	0.048
REP 1539062	QC		0.8	22.3	7.6	37	<0.1	13.7	4.8	163	1.54	38.3	0.7	4.2	3.6	13	0.1	9.4	0.1	24	0.13	0.051
1537528	Soil		0.7	21.0	9.1	40	<0.1	33.0	10.9	332	2.43	19.9	0.3	2.2	2.6	15	<0.1	4.7	0.1	67	0.19	0.014
REP 1537528	QC		0.7	21.4	9.3	41	<0.1	33.3	11.2	325	2.46	20.4	0.3	0.8	2.6	15	<0.1	4.9	0.1	70	0.19	0.014
1537507	Soil		0.7	21.6	8.2	44	<0.1	15.7	5.7	205	1.88	32.7	1.0	7.7	4.1	18	<0.1	2.8	0.2	41	0.19	0.049
REP 1537507	QC		0.7	22.7	8.2	44	<0.1	15.8	5.6	207	1.83	32.6	1.0	10.9	3.9	18	<0.1	2.9	0.2	41	0.19	0.051
1547804	Soil		0.6	13.7	11.0	35	0.1	12.2	5.6	447	1.50	34.1	2.7	3.9	2.4	82	<0.1	7.5	0.1	28	0.91	0.065
REP 1547804	QC		0.6	12.4	10.1	34	0.1	11.5	5.4	434	1.44	32.4	2.6	3.3	2.5	76	<0.1	7.3	0.2	27	0.84	0.059
1547788	Soil		0.7	15.2	10.2	34	<0.1	12.6	6.3	247	1.76	10.9	1.1	2.6	4.0	14	<0.1	3.2	0.2	34	0.16	0.062
REP 1547788	QC		0.7	15.3	10.1	33	<0.1	12.5	6.2	242	1.74	11.4	1.1	11.8	4.0	14	<0.1	3.2	0.2	34	0.16	0.061
1545308	Soil		0.9	23.5	10.7	43	0.2	23.3	9.0	214	2.28	14.5	0.6	4.2	4.4	17	<0.1	1.8	0.2	50	0.16	0.033
REP 1545308	QC		0.9	22.7	10.5	42	0.2	22.4	8.8	218	2.42	14.2	0.6	2.6	4.4	17	<0.1	1.8	0.2	49	0.15	0.032
1548360	Soil		0.5	37.7	6.2	59	<0.1	41.4	13.7	436	2.90	26.7	0.4	6.3	2.8	11	<0.1	6.2	<0.1	87	0.14	0.024
REP 1548360	QC		0.5	38.0	6.2	56	<0.1	41.2	14.1	441	2.99	25.7	0.4	4.9	2.9	11	<0.1	6.2	<0.1	92	0.13	0.025
Reference Materials																						
STD DS11	Standard		14.5	152.2	136.2	342	1.6	79.1	13.8	1038	3.17	43.8	2.7	82.9	7.7	67	2.4	8.9	11.9	55	1.05	0.073
STD DS11	Standard		14.4	174.4	141.9	344	1.7	80.6	13.6	1067	3.16	47.6	2.9	63.6	8.8	71	2.7	9.7	14.6	51	1.08	0.080
STD DS11	Standard		14.7	153.5	138.9	337	1.6	79.1	13.9	1040	3.18	44.9	2.7	81.1	7.7	67	2.5	8.9	12.5	53	1.06	0.073
STD DS11	Standard		14.5	159.8	143.1	329	1.7	81.0	14.3	1045	3.27	42.1	2.7	75.8	7.6	66	2.4	9.4	12.3	54	1.05	0.075
STD DS11	Standard		13.1	138.6	133.4	313	1.6	71.6	12.7	973	2.91	41.1	2.5	77.1	7.4	62	2.2	8.3	11.8	47	0.93	0.073
STD DS11	Standard		14.4	147.5	133.9	338	1.7	76.4	13.9	1022	3.20	45.3	2.6	102.7	7.6	68	2.3	8.4	12.2	52	1.04	0.072
STD DS11	Standard		13.6	166.8	150.3	344	1.7	80.8	14.0	994	3.06	48.4	3.0	74.2	8.4	69	2.6	10.1	15.0	47	1.00	0.076
STD DS11	Standard		15.1	165.2	144.8	351	1.8	81.4	14.5	1043	3.21	48.2	3.3	85.8	9.5	71	2.7	10.3	15.3	54	1.07	0.079
STD DS11	Standard		14.2	167.5	152.7	363	1.7	77.9	14.3	1013	3.22	45.6	2.9	92.0	8.5	73	2.6	10.2	15.1	51	1.00	0.077

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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																		
1546043	Soil	21	17	0.22	209	0.017	<1	0.79	0.004	0.05	0.2	0.04	4.5	<0.1	<0.05	2	0.9	<0.2
REP 1546043	QC	21	18	0.24	205	0.019	2	0.84	0.005	0.05	0.1	0.03	4.7	<0.1	<0.05	2	0.8	<0.2
1548047	Soil	19	23	0.33	269	0.044	<1	1.10	0.006	0.04	0.2	0.03	3.7	<0.1	<0.05	3	<0.5	<0.2
REP 1548047	QC	20	23	0.33	268	0.045	<1	1.15	0.007	0.04	0.1	0.03	3.6	<0.1	<0.05	3	<0.5	<0.2
1539062	Soil	15	13	0.21	129	0.023	<1	0.64	0.004	0.05	0.1	0.02	1.8	<0.1	<0.05	2	<0.5	<0.2
REP 1539062	QC	16	14	0.21	137	0.024	<1	0.66	0.004	0.05	0.1	0.01	1.9	<0.1	<0.05	2	<0.5	<0.2
1537528	Soil	10	91	0.99	161	0.046	1	1.53	0.007	0.05	0.1	0.01	5.1	0.1	<0.05	5	<0.5	<0.2
REP 1537528	QC	10	95	1.00	164	0.048	1	1.56	0.007	0.05	0.1	0.01	5.2	0.1	<0.05	5	<0.5	<0.2
1537507	Soil	17	22	0.33	514	0.038	<1	1.00	0.008	0.03	0.2	0.02	3.0	<0.1	<0.05	3	<0.5	<0.2
REP 1537507	QC	16	22	0.33	507	0.037	<1	1.02	0.008	0.03	0.2	0.02	3.0	<0.1	<0.05	3	<0.5	<0.2
1547804	Soil	11	16	0.27	292	0.010	<1	0.86	0.006	0.03	0.1	0.05	2.5	<0.1	<0.05	2	<0.5	<0.2
REP 1547804	QC	11	15	0.25	283	0.010	<1	0.82	0.006	0.03	0.1	0.04	2.3	<0.1	<0.05	2	<0.5	<0.2
1547788	Soil	14	20	0.27	180	0.022	<1	0.94	0.007	0.05	0.1	0.03	2.4	<0.1	<0.05	3	<0.5	<0.2
REP 1547788	QC	14	20	0.27	180	0.022	<1	0.94	0.007	0.05	0.1	0.03	2.4	<0.1	<0.05	3	<0.5	<0.2
1545308	Soil	13	30	0.45	268	0.041	<1	1.62	0.007	0.05	0.2	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
REP 1545308	QC	13	29	0.42	266	0.040	<1	1.59	0.007	0.05	0.2	0.03	2.8	0.1	<0.05	4	<0.5	<0.2
1548360	Soil	11	94	1.48	153	0.056	1	1.68	0.004	0.09	0.1	<0.01	13.1	0.1	<0.05	5	<0.5	<0.2
REP 1548360	QC	11	98	1.45	157	0.057	<1	1.62	0.004	0.09	<0.1	<0.01	13.6	0.1	<0.05	5	<0.5	<0.2
Reference Materials																		
STD DS11	Standard	20	62	0.85	374	0.099	7	1.14	0.073	0.40	3.3	0.26	3.6	5.0	0.32	5	2.2	4.6
STD DS11	Standard	21	59	0.84	364	0.098	7	1.15	0.069	0.38	3.1	0.25	3.5	4.9	0.29	5	2.3	4.7
STD DS11	Standard	19	60	0.84	358	0.095	6	1.13	0.071	0.42	3.0	0.24	3.5	5.0	0.27	5	2.1	4.5
STD DS11	Standard	18	62	0.85	378	0.090	6	1.10	0.072	0.40	3.1	0.23	3.4	4.9	0.28	5	2.4	4.7
STD DS11	Standard	17	55	0.77	346	0.084	6	1.02	0.066	0.36	3.0	0.24	3.0	4.7	0.26	4	1.9	4.6
STD DS11	Standard	20	59	0.84	373	0.097	7	1.18	0.073	0.40	3.0	0.26	3.8	4.9	0.26	5	2.5	4.6
STD DS11	Standard	20	57	0.84	375	0.091	7	1.09	0.071	0.37	3.1	0.26	3.1	4.8	0.26	4	2.1	4.5
STD DS11	Standard	23	62	0.88	380	0.103	7	1.21	0.080	0.41	3.2	0.27	3.5	4.9	0.28	5	2.2	4.8
STD DS11	Standard	20	61	0.84	377	0.095	7	1.14	0.069	0.39	3.2	0.25	3.2	4.8	0.27	5	2.1	4.5

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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
STD DS11	Standard	12.8	137.8	131.8	321	1.7	73.5	12.8	974	3.02	42.2	2.6	80.6	7.7	69	2.3	9.1	11.7	47	1.00	0.066
STD OXC129	Standard	1.2	28.3	6.5	43	<0.1	79.7	20.5	426	3.10	0.7	0.7	191.0	1.9	196	<0.1	<0.1	<0.1	59	0.72	0.106
STD OXC129	Standard	1.3	32.0	7.2	43	<0.1	82.4	21.9	435	3.24	0.9	0.8	187.1	2.2	188	<0.1	<0.1	<0.1	59	0.70	0.115
STD OXC129	Standard	1.4	28.1	6.4	43	<0.1	79.4	20.5	425	3.05	0.7	0.7	189.7	1.9	184	<0.1	<0.1	<0.1	54	0.64	0.108
STD OXC129	Standard	1.2	27.7	6.6	43	<0.1	79.0	20.5	414	3.05	0.7	0.7	193.2	1.8	182	<0.1	<0.1	<0.1	55	0.63	0.108
STD OXC129	Standard	1.2	27.5	6.3	42	<0.1	75.6	19.4	412	3.01	0.6	0.7	195.8	1.9	186	<0.1	<0.1	<0.1	55	0.64	0.103
STD OXC129	Standard	1.2	27.7	6.3	45	<0.1	77.8	19.4	418	3.07	0.8	0.7	202.6	1.9	185	<0.1	<0.1	<0.1	54	0.71	0.100
STD OXC129	Standard	1.3	30.9	7.0	42	<0.1	81.5	21.8	437	3.08	0.5	0.8	195.1	2.2	183	<0.1	<0.1	<0.1	56	0.65	0.108
STD OXC129	Standard	1.3	32.3	7.2	45	<0.1	83.0	22.1	429	3.17	<0.5	0.8	192.3	2.3	201	<0.1	<0.1	<0.1	53	0.77	0.110
STD OXC129	Standard	1.3	31.3	6.9	43	<0.1	83.3	21.6	433	3.15	0.9	0.8	200.9	2.1	180	<0.1	<0.1	<0.1	56	0.67	0.108
STD OXC129	Standard	1.2	26.5	6.3	41	<0.1	72.2	18.9	409	3.03	0.7	0.7	186.9	1.8	198	<0.1	<0.1	<0.1	50	0.76	0.097
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	<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	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
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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Project: SUM
Report Date: September 07, 2017

QUALITY CONTROL REPORT WHI17000674.1

		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
STD DS11	Standard	19	56	0.79	370	0.093	7	1.10	0.070	0.37	2.9	0.26	3.3	4.9	0.24	5	2.2	4.7
STD OXC129	Standard	13	54	1.52	51	0.403	<1	1.60	0.590	0.35	<0.1	<0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	14	55	1.56	48	0.421	1	1.57	0.598	0.36	<0.1	<0.01	0.9	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	13	53	1.51	50	0.405	<1	1.52	0.595	0.34	<0.1	<0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	13	53	1.48	49	0.408	1	1.54	0.552	0.35	<0.1	<0.01	1.5	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	13	52	1.46	51	0.404	<1	1.47	0.539	0.34	<0.1	<0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	12	51	1.54	50	0.383	2	1.56	0.586	0.35	<0.1	<0.01	1.3	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	15	54	1.55	52	0.400	<1	1.61	0.586	0.35	<0.1	<0.01	0.8	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	15	57	1.64	52	0.420	1	1.70	0.652	0.37	<0.1	<0.01	1.0	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	14	55	1.50	49	0.401	<1	1.43	0.554	0.35	<0.1	<0.01	0.9	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	12	51	1.43	52	0.388	2	1.56	0.577	0.34	<0.1	<0.01	0.9	<0.1	<0.05	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	<0.05	<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
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
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

BUREAU VERITAS MINERAL LABORATORIES Canada

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Submitted By: Shawn Ryan
Receiving Lab: Canada-Whitehorse
Received: August 23, 2017
Report Date: September 07, 2017
Page: 1 of 12

CERTIFICATE OF ANALYSIS WHI17000675.1

CLIENT JOB INFORMATION

Project: MCQ
Shipment ID: MCQ-20170822-001-SOIL
P.O. Number
Number of Samples: 320

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.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	320	Dry at 60C			WHI
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
AQ201	320	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
SHP01	320	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

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

CC: Isaac Fage
Jodie Gibson

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Production Manager

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

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Client: **Ryanwood Exploration Inc.**
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Dawson City Yukon Y0B 1G0 Canada

Project: MCQ
Report Date: September 07, 2017

CERTIFICATE OF ANALYSIS WHI17000675.1

		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
1548549	Soil		0.8	16.3	9.9	42	<0.1	11.9	4.5	147	1.89	8.3	0.9	3.0	1.5	8	<0.1	0.7	0.4	20	0.05	0.045
1548547	Soil		0.5	12.4	7.8	37	<0.1	11.2	4.8	130	1.44	8.7	0.7	5.5	1.1	8	<0.1	0.6	0.2	20	0.08	0.053
1548542	Soil		0.6	15.3	8.2	29	<0.1	11.0	3.8	116	1.34	7.7	0.8	2.5	0.4	5	<0.1	0.5	0.2	21	0.04	0.042
1539124	Soil		0.6	8.2	7.4	28	<0.1	7.9	4.2	182	1.36	8.3	0.6	0.8	0.5	6	<0.1	0.5	0.2	20	0.04	0.051
1539131	Soil		0.4	8.7	6.0	43	<0.1	11.7	5.6	253	1.21	8.1	0.5	1.7	4.1	9	0.1	0.6	0.1	15	0.10	0.055
1539133	Soil		0.4	13.7	6.8	45	<0.1	12.3	5.6	221	1.32	10.0	0.7	<0.5	4.4	10	0.2	0.7	0.3	16	0.12	0.075
1548539	Soil		0.7	11.8	8.8	41	<0.1	12.7	6.6	248	1.80	11.6	0.7	22.7	2.4	8	0.1	0.8	0.3	22	0.08	0.060
1548545	Soil		0.5	5.6	5.8	21	<0.1	6.2	2.1	53	0.89	5.3	0.4	17.2	0.2	4	<0.1	0.3	0.2	18	0.03	0.032
1548544	Soil		0.5	9.8	8.0	31	<0.1	8.5	2.9	60	1.25	7.3	0.6	0.6	0.5	6	<0.1	0.5	0.2	21	0.05	0.052
1539134	Soil		0.3	8.4	5.5	44	<0.1	10.8	5.2	206	1.05	7.0	0.5	1.2	3.9	9	0.2	0.5	0.1	15	0.09	0.050
1539125	Soil		0.6	11.8	9.0	32	<0.1	9.2	4.3	124	1.34	8.1	1.0	3.2	0.8	8	<0.1	0.5	0.2	24	0.07	0.061
1548541	Soil		0.6	11.4	8.2	29	<0.1	9.8	3.7	113	1.45	8.3	0.7	<0.5	0.1	6	<0.1	0.4	0.2	22	0.05	0.056
1548550	Soil		0.8	15.7	9.4	39	<0.1	11.6	4.1	140	1.80	8.4	0.8	162.4	1.1	8	0.1	0.6	0.2	22	0.05	0.048
1539132	Soil		0.4	8.5	5.9	43	<0.1	11.2	5.6	247	1.25	7.4	0.5	0.9	3.9	10	<0.1	0.6	0.1	16	0.11	0.080
1548540	Soil		0.7	14.4	8.6	32	<0.1	12.4	4.9	132	1.36	6.4	0.9	4.8	0.2	6	0.1	0.5	0.2	21	0.04	0.044
1548531	Soil		0.6	21.8	6.4	52	<0.1	17.3	6.9	243	1.36	10.8	0.6	1.5	4.7	9	0.1	0.8	0.1	16	0.10	0.054
1548532	Soil		0.4	22.0	6.9	54	<0.1	14.4	7.4	257	1.39	9.7	0.6	1.4	4.5	9	0.1	0.7	0.1	17	0.09	0.051
1548518	Soil		0.5	12.5	6.6	47	<0.1	13.6	6.7	206	1.46	11.5	0.6	<0.5	4.5	10	0.1	0.7	0.1	16	0.11	0.069
1539126	Soil		0.4	12.7	7.4	53	<0.1	13.5	6.4	167	1.34	8.6	0.7	1.8	4.4	10	0.2	0.7	0.1	16	0.11	0.057
1539128	Soil		0.4	11.8	6.5	43	<0.1	11.5	5.9	182	1.21	6.9	0.8	3.0	4.8	10	<0.1	0.7	0.1	18	0.10	0.057
1548522	Soil		0.4	14.4	6.3	49	<0.1	14.9	6.3	270	1.42	10.4	0.6	<0.5	4.1	9	0.2	0.6	<0.1	16	0.10	0.053
1548534	Soil		0.4	9.4	6.6	48	<0.1	12.6	6.3	222	1.29	8.1	0.5	1.0	4.5	11	0.1	0.7	<0.1	18	0.11	0.057
1539127	Soil		0.5	16.6	6.4	53	<0.1	15.5	8.6	349	1.44	8.9	0.6	<0.5	4.4	10	0.2	0.8	0.1	18	0.10	0.062
1548546	Soil		0.6	13.4	7.7	37	<0.1	11.2	4.0	87	1.42	9.7	0.6	56.5	0.7	8	<0.1	0.6	0.1	23	0.07	0.052
1548528	Soil		0.5	16.0	6.7	52	<0.1	15.2	9.5	595	1.41	11.0	0.7	1.7	4.7	10	0.2	0.7	<0.1	17	0.10	0.060
1548536	Soil		0.5	9.7	6.4	42	<0.1	11.6	5.1	193	1.54	10.3	0.6	2.0	3.4	10	<0.1	0.7	0.1	18	0.10	0.067
1548526	Soil		0.5	18.4	7.0	43	<0.1	12.5	5.6	219	1.44	10.0	0.8	2.0	3.0	8	0.2	0.7	0.1	22	0.08	0.059
1539130	Soil		0.6	29.0	10.0	91	<0.1	21.2	12.5	348	1.97	13.6	1.1	3.1	5.9	10	0.2	0.8	0.2	36	0.09	0.058
1548548	Soil		0.6	11.4	6.8	28	<0.1	7.8	2.6	63	1.17	7.5	0.6	8.5	0.2	6	<0.1	0.5	0.1	21	0.04	0.045
1548517	Soil		0.5	21.9	7.5	56	<0.1	16.2	7.6	347	1.48	12.0	0.6	1.9	4.8	10	0.2	0.8	0.1	17	0.10	0.060

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Project: MCQ
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CERTIFICATE OF ANALYSIS WHI17000675.1

	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
1548549	Soil	15	12	0.23	62	0.011	<1	0.64	0.002	0.03	0.3	0.01	0.7	<0.1	<0.05	2	<0.5	<0.2
1548547	Soil	16	11	0.20	91	0.010	2	0.60	0.002	0.02	0.4	0.01	1.0	<0.1	<0.05	2	<0.5	<0.2
1548542	Soil	15	14	0.21	65	0.005	<1	0.57	0.002	0.02	0.2	0.02	0.5	<0.1	<0.05	2	<0.5	<0.2
1539124	Soil	12	10	0.18	40	0.008	<1	0.55	0.002	0.02	0.2	0.02	0.4	<0.1	<0.05	2	<0.5	<0.2
1539131	Soil	12	8	0.19	39	0.012	<1	0.47	0.002	0.03	0.2	<0.01	0.9	<0.1	<0.05	1	<0.5	<0.2
1539133	Soil	13	10	0.21	36	0.012	<1	0.52	0.001	0.02	0.2	0.01	1.1	0.1	<0.05	1	<0.5	<0.2
1548539	Soil	15	12	0.22	53	0.013	<1	0.58	0.002	0.02	0.4	0.02	0.9	<0.1	<0.05	2	<0.5	<0.2
1548545	Soil	11	9	0.16	52	0.006	<1	0.42	0.002	0.02	0.4	0.02	0.2	<0.1	<0.05	2	<0.5	<0.2
1548544	Soil	14	11	0.21	62	0.008	<1	0.62	0.002	0.02	0.3	0.02	0.5	<0.1	<0.05	2	<0.5	<0.2
1539134	Soil	11	8	0.19	40	0.011	<1	0.49	0.002	0.02	0.2	<0.01	0.9	<0.1	<0.05	1	<0.5	<0.2
1539125	Soil	13	13	0.21	77	0.010	<1	0.72	0.002	0.02	0.2	0.02	0.8	<0.1	<0.05	2	<0.5	<0.2
1548541	Soil	14	12	0.18	72	0.005	1	0.57	0.002	0.02	0.3	0.04	0.3	<0.1	<0.05	2	<0.5	<0.2
1548550	Soil	15	12	0.24	61	0.012	<1	0.68	0.002	0.03	0.2	0.01	0.6	<0.1	<0.05	2	<0.5	<0.2
1539132	Soil	12	10	0.20	39	0.013	<1	0.53	0.002	0.03	0.2	<0.01	1.0	<0.1	<0.05	1	<0.5	<0.2
1548540	Soil	19	12	0.19	59	0.005	1	0.54	0.002	0.03	0.2	0.02	0.3	<0.1	<0.05	2	<0.5	<0.2
1548531	Soil	14	10	0.22	67	0.013	<1	0.54	0.002	0.02	0.2	0.02	1.4	<0.1	<0.05	1	<0.5	<0.2
1548532	Soil	14	10	0.22	64	0.015	<1	0.55	0.003	0.02	0.2	0.01	1.4	<0.1	<0.05	1	<0.5	<0.2
1548518	Soil	13	10	0.21	37	0.013	<1	0.59	0.002	0.03	0.2	<0.01	1.1	<0.1	<0.05	1	<0.5	<0.2
1539126	Soil	13	10	0.20	49	0.014	1	0.54	0.002	0.03	0.1	0.01	1.1	<0.1	<0.05	1	<0.5	<0.2
1539128	Soil	14	10	0.20	58	0.013	<1	0.56	0.002	0.02	0.2	<0.01	1.2	<0.1	<0.05	1	<0.5	<0.2
1548522	Soil	13	10	0.21	57	0.014	1	0.52	0.002	0.03	0.1	<0.01	1.2	<0.1	<0.05	1	<0.5	<0.2
1548534	Soil	13	11	0.21	46	0.014	<1	0.58	0.002	0.02	0.2	<0.01	1.0	<0.1	<0.05	1	<0.5	<0.2
1539127	Soil	13	11	0.21	58	0.013	1	0.62	0.002	0.03	0.2	0.01	1.2	<0.1	<0.05	1	<0.5	<0.2
1548546	Soil	14	12	0.21	73	0.010	1	0.62	0.002	0.02	0.2	0.02	0.8	<0.1	<0.05	2	<0.5	<0.2
1548528	Soil	14	10	0.21	60	0.015	<1	0.60	0.002	0.03	0.2	0.02	1.4	<0.1	<0.05	1	<0.5	<0.2
1548536	Soil	12	11	0.19	39	0.014	<1	0.56	0.002	0.03	0.2	<0.01	1.0	<0.1	<0.05	2	<0.5	<0.2
1548526	Soil	15	11	0.22	63	0.015	<1	0.63	0.002	0.03	0.3	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1539130	Soil	16	19	0.33	159	0.026	1	1.17	0.004	0.04	0.2	0.04	2.5	0.1	<0.05	3	<0.5	<0.2
1548548	Soil	13	11	0.19	47	0.006	<1	0.52	0.002	0.02	0.3	0.03	0.3	<0.1	<0.05	2	<0.5	<0.2
1548517	Soil	14	10	0.22	50	0.015	<1	0.58	0.002	0.03	0.2	0.01	1.3	<0.1	<0.05	1	<0.5	<0.2

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Dawson City Yukon Y0B 1G0 Canada

Project: MCQ
Report Date: September 07, 2017

CERTIFICATE OF ANALYSIS WHI17000675.1

		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
1548527	Soil		0.4	11.7	6.0	49	<0.1	14.2	7.1	270	1.27	8.2	0.5	1.0	4.3	10	0.1	0.7	<0.1	17	0.10	0.052
1539129	Soil		0.4	12.7	6.4	48	<0.1	11.7	7.0	305	1.27	9.2	1.1	0.5	4.3	10	0.1	0.7	<0.1	17	0.10	0.050
1548543	Soil		0.6	8.3	6.7	30	<0.1	8.7	3.3	94	1.23	8.7	0.5	6.9	0.6	6	<0.1	0.6	0.1	22	0.05	0.043
1548530	Soil		0.6	15.4	7.7	46	<0.1	13.6	8.1	356	1.48	11.3	0.6	1.1	4.6	9	0.2	0.7	0.1	19	0.09	0.060
1539119	Soil		0.5	15.7	7.4	45	<0.1	12.8	7.6	209	1.31	8.0	1.0	0.9	2.7	8	<0.1	0.5	0.1	21	0.08	0.050
1539118	Soil		0.6	15.8	8.6	53	<0.1	15.9	8.0	224	1.60	9.9	0.9	1.0	3.5	9	<0.1	0.7	0.1	25	0.09	0.056
1548537	Soil		0.5	6.7	5.5	27	<0.1	7.3	2.6	86	1.30	8.8	0.4	2.0	1.1	6	0.1	0.5	0.2	20	0.06	0.055
1548520	Soil		0.5	12.0	5.9	42	<0.1	12.1	6.7	260	1.37	8.9	0.5	1.1	3.8	8	0.1	0.7	0.1	17	0.09	0.058
1539120	Soil		0.5	15.8	7.3	42	<0.1	13.3	6.4	179	1.31	7.3	1.0	1.7	2.2	7	0.1	0.5	0.2	20	0.08	0.052
1539117	Soil		0.6	8.2	6.5	30	<0.1	8.5	3.5	115	1.51	9.2	0.5	<0.5	0.8	6	<0.1	0.5	0.1	21	0.06	0.048
1539116	Soil		0.7	9.7	7.3	34	<0.1	10.8	3.8	110	1.48	8.8	0.6	0.9	0.5	6	<0.1	0.5	0.2	20	0.05	0.046
1548516	Soil		0.5	13.7	5.5	43	<0.1	13.1	6.1	269	1.37	9.1	0.6	1.2	3.7	8	0.1	0.6	0.1	17	0.09	0.059
1548535	Soil		0.5	8.7	5.7	34	<0.1	9.2	3.6	118	1.37	8.5	0.6	15.2	2.7	8	0.1	0.5	0.1	19	0.09	0.059
1539121	Soil		0.5	18.3	6.9	44	<0.1	14.2	6.7	217	1.54	8.6	0.8	0.7	4.9	8	0.2	0.7	0.1	17	0.08	0.052
1548533	Soil		0.3	8.3	5.6	41	<0.1	11.5	6.6	302	1.21	6.8	0.6	<0.5	3.9	9	0.2	0.6	0.1	17	0.10	0.057
1548519	Soil		0.4	6.8	6.7	38	<0.1	9.3	4.0	164	1.56	9.9	0.4	<0.5	3.5	9	<0.1	0.6	0.1	19	0.10	0.121
1539123	Soil		0.7	15.1	8.8	42	<0.1	11.8	5.2	173	1.64	10.2	1.1	1.2	1.6	8	0.1	0.6	0.2	22	0.07	0.064
1539122	Soil		0.6	7.5	6.5	34	<0.1	8.4	3.1	106	1.46	8.9	0.5	<0.5	1.8	5	<0.1	0.4	0.1	22	0.05	0.048
1539105	Soil		0.4	22.1	7.3	56	<0.1	16.6	7.0	235	1.48	10.9	0.6	0.5	4.2	9	0.3	0.6	0.1	18	0.11	0.058
1539111	Soil		0.8	27.6	15.3	52	<0.1	14.0	6.2	219	2.24	5.0	2.0	0.9	5.8	10	0.1	0.5	0.4	17	0.06	0.043
1539115	Soil		0.4	8.4	8.0	32	<0.1	9.4	3.2	65	1.13	5.2	0.7	3.0	0.2	6	<0.1	0.3	0.2	20	0.05	0.047
1548523	Soil		0.4	13.1	6.4	49	<0.1	13.2	7.4	327	1.40	9.3	0.7	<0.5	4.1	8	0.2	0.7	<0.1	17	0.10	0.054
1539107	Soil		0.6	15.7	7.0	46	<0.1	12.7	4.9	138	1.68	12.1	0.9	21.0	3.5	9	0.1	0.7	0.1	22	0.10	0.061
1539102	Soil		0.4	7.8	5.6	43	<0.1	10.6	5.6	259	1.38	8.2	0.5	<0.5	3.4	8	0.1	0.6	<0.1	17	0.09	0.056
1548521	Soil		0.4	12.7	6.1	46	<0.1	13.7	6.5	329	1.35	9.7	0.5	0.7	3.8	8	0.2	0.7	<0.1	16	0.10	0.055
1539113	Soil		0.4	7.8	6.4	32	<0.1	9.7	3.0	58	1.09	5.6	0.6	1.5	0.3	6	<0.1	0.3	0.1	21	0.06	0.046
1539106	Soil		0.5	22.2	7.3	52	<0.1	15.9	7.8	262	1.63	12.4	0.6	1.3	4.1	9	0.1	0.7	0.2	18	0.11	0.058
1539108	Soil		0.6	15.0	7.5	47	<0.1	11.7	6.2	187	1.72	10.0	1.1	3.2	2.1	7	0.1	0.6	0.1	24	0.08	0.055
1539114	Soil		0.7	10.3	6.6	34	<0.1	9.8	3.7	84	1.67	9.2	0.6	<0.5	0.4	6	<0.1	0.5	0.1	21	0.06	0.048
1548538	Soil		0.9	19.5	9.9	57	<0.1	17.9	7.5	259	2.05	10.8	0.9	90.5	5.5	12	0.2	0.9	0.2	25	0.12	0.079

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Project: MCQ
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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
1548527	Soil		12	10	0.21	53	0.013	1	0.62	0.002	0.02	0.2	0.01	1.2	<0.1	<0.05	1	<0.5	<0.2
1539129	Soil		16	9	0.22	81	0.015	1	0.48	0.002	0.03	0.2	0.02	1.8	<0.1	<0.05	1	<0.5	<0.2
1548543	Soil		13	10	0.19	52	0.010	1	0.46	0.002	0.02	0.3	0.01	0.6	<0.1	<0.05	2	<0.5	<0.2
1548530	Soil		13	11	0.22	50	0.015	<1	0.61	0.002	0.03	0.2	0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
1539119	Soil		15	12	0.21	120	0.012	<1	0.67	0.002	0.03	0.1	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1539118	Soil		16	14	0.24	147	0.014	<1	0.78	0.003	0.03	0.4	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1548537	Soil		10	10	0.18	38	0.010	<1	0.51	0.002	0.02	0.2	0.01	0.8	<0.1	<0.05	2	<0.5	<0.2
1548520	Soil		11	9	0.22	45	0.011	<1	0.59	0.002	0.03	0.2	0.01	1.1	<0.1	<0.05	1	<0.5	<0.2
1539120	Soil		13	12	0.22	116	0.009	1	0.69	0.002	0.03	0.2	0.04	1.4	<0.1	<0.05	2	<0.5	<0.2
1539117	Soil		12	11	0.19	96	0.008	<1	0.62	0.002	0.02	0.2	0.02	0.9	<0.1	<0.05	2	<0.5	<0.2
1539116	Soil		12	11	0.19	111	0.006	<1	0.62	0.002	0.02	0.2	0.03	0.7	<0.1	<0.05	2	<0.5	<0.2
1548516	Soil		11	10	0.22	51	0.012	<1	0.57	0.002	0.03	0.2	0.01	1.3	<0.1	<0.05	1	<0.5	<0.2
1548535	Soil		12	10	0.20	43	0.012	<1	0.58	0.002	0.02	0.3	0.01	1.0	<0.1	<0.05	2	<0.5	<0.2
1539121	Soil		17	11	0.26	78	0.011	<1	0.64	0.002	0.03	0.2	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
1548533	Soil		12	9	0.23	49	0.012	<1	0.62	0.002	0.03	0.2	0.01	1.2	<0.1	<0.05	1	<0.5	<0.2
1548519	Soil		11	10	0.21	41	0.013	<1	0.57	0.002	0.03	0.2	0.02	1.0	<0.1	<0.05	1	<0.5	<0.2
1539123	Soil		14	12	0.25	89	0.010	<1	0.76	0.002	0.03	0.2	0.02	1.1	<0.1	<0.05	2	<0.5	<0.2
1539122	Soil		10	12	0.20	51	0.011	<1	0.70	0.002	0.02	0.2	0.02	1.1	<0.1	<0.05	2	<0.5	<0.2
1539105	Soil		13	10	0.23	65	0.013	<1	0.61	0.002	0.03	0.2	0.02	1.5	<0.1	<0.05	1	<0.5	<0.2
1539111	Soil		21	13	0.42	123	0.027	<1	0.89	0.002	0.03	0.2	0.01	1.3	<0.1	<0.05	3	<0.5	<0.2
1539115	Soil		13	13	0.21	100	0.005	<1	0.71	0.002	0.03	0.2	0.03	0.5	<0.1	<0.05	2	<0.5	<0.2
1548523	Soil		12	10	0.22	54	0.011	<1	0.59	0.002	0.03	0.2	0.02	1.3	<0.1	<0.05	1	<0.5	<0.2
1539107	Soil		14	12	0.24	86	0.013	1	0.68	0.002	0.03	0.3	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
1539102	Soil		11	10	0.22	43	0.012	<1	0.59	0.002	0.03	0.1	<0.01	1.2	<0.1	<0.05	1	<0.5	<0.2
1548521	Soil		11	9	0.22	52	0.011	<1	0.57	0.002	0.03	0.2	0.01	1.4	<0.1	<0.05	1	<0.5	<0.2
1539113	Soil		13	12	0.21	104	0.006	<1	0.66	0.002	0.03	0.2	0.03	0.7	<0.1	<0.05	2	<0.5	<0.2
1539106	Soil		12	11	0.25	75	0.012	<1	0.64	0.002	0.03	0.1	0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
1539108	Soil		13	13	0.26	112	0.014	<1	0.79	0.003	0.03	0.3	0.04	1.8	<0.1	<0.05	2	<0.5	<0.2
1539114	Soil		12	11	0.21	89	0.006	<1	0.66	0.002	0.03	0.1	0.02	0.7	<0.1	<0.05	2	<0.5	<0.2
1548538	Soil		18	15	0.29	65	0.016	<1	0.72	0.002	0.04	0.4	0.02	1.7	<0.1	<0.05	2	<0.5	<0.2

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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
1539109	Soil		0.5	13.9	7.5	44	<0.1	12.9	5.7	171	1.44	6.6	0.8	4.7	2.1	10	0.1	0.6	0.2	22	0.12	0.062
1539110	Soil		0.8	26.1	13.6	64	<0.1	19.1	7.6	269	2.39	7.6	1.1	63.9	7.0	10	0.2	0.8	0.3	24	0.09	0.058
1548529	Soil		0.7	19.8	8.0	44	<0.1	13.5	7.3	414	1.82	12.2	0.8	2.0	3.0	7	0.1	0.7	0.1	25	0.08	0.057
1539112	Soil		0.6	6.4	6.3	32	<0.1	9.4	3.4	64	1.24	6.8	0.5	8.0	0.5	7	<0.1	0.4	0.1	21	0.07	0.041
1539142	Soil		0.5	15.5	7.1	49	<0.1	16.5	8.2	321	1.60	14.3	0.6	16.1	3.9	9	0.1	0.8	0.1	17	0.11	0.057
1539148	Soil		0.9	11.0	8.8	48	<0.1	10.9	6.4	292	2.04	12.9	0.7	1.6	1.7	6	<0.1	0.5	0.2	32	0.06	0.053
1539149	Soil		0.6	16.1	7.2	38	<0.1	11.1	5.5	198	1.58	11.3	1.0	0.9	2.2	6	<0.1	0.6	0.1	25	0.07	0.046
1539104	Soil		0.5	8.8	6.1	49	<0.1	12.0	5.9	238	1.46	9.5	0.6	1.2	3.9	9	0.1	0.7	<0.1	17	0.10	0.056
1539141	Soil		0.7	15.6	8.1	48	<0.1	16.1	10.8	492	2.04	15.8	0.5	0.5	4.3	9	0.2	0.8	0.1	22	0.11	0.072
1539152	Soil		0.5	19.2	7.5	43	<0.1	17.9	6.9	187	1.75	7.3	0.8	<0.5	3.6	7	<0.1	0.6	0.2	20	0.07	0.044
1539150	Soil		0.7	17.3	7.7	40	<0.1	13.0	7.0	248	1.77	12.0	0.7	11.1	1.3	6	<0.1	0.7	0.2	24	0.06	0.052
1539101	Soil		0.5	7.8	5.8	38	<0.1	9.8	7.1	440	1.29	8.9	0.5	<0.5	3.2	8	<0.1	0.6	0.1	15	0.10	0.061
1539143	Soil		0.5	17.2	9.6	50	<0.1	16.3	9.2	301	1.95	16.3	0.5	2.6	4.0	9	0.2	0.9	0.2	20	0.12	0.068
1539144	Soil		0.5	19.8	7.9	46	<0.1	15.3	7.6	290	1.66	12.7	0.6	3.3	3.7	9	<0.1	0.8	0.1	20	0.10	0.059
1539151	Soil		0.6	14.5	8.7	40	<0.1	12.1	5.1	179	1.65	9.0	1.0	2.3	1.6	6	<0.1	0.5	0.2	24	0.07	0.046
1539103	Soil		0.5	13.0	6.2	44	<0.1	11.4	6.8	290	1.43	8.5	0.7	1.9	2.0	8	0.1	0.6	0.1	21	0.09	0.059
1539140	Soil		0.6	12.6	8.8	35	<0.1	10.0	4.1	120	1.80	9.9	0.9	2.1	1.0	7	<0.1	0.5	0.2	33	0.07	0.063
1539147	Soil		0.7	21.1	9.0	50	<0.1	14.9	9.9	480	2.09	11.8	1.4	2.5	4.0	9	0.1	0.8	0.2	26	0.09	0.055
1539146	Soil		0.7	27.3	8.0	50	<0.1	17.5	8.7	451	1.91	11.8	1.2	3.8	4.7	8	0.1	0.8	0.2	30	0.09	0.045
1539145	Soil		0.6	14.2	10.5	44	<0.1	14.5	7.7	290	2.07	16.1	0.5	1.8	3.3	7	0.1	0.8	0.2	21	0.08	0.050
1539160	Soil		0.5	8.2	5.5	35	<0.1	10.1	6.5	280	1.32	9.1	0.5	6.8	3.1	7	<0.1	0.5	<0.1	18	0.09	0.048
1539159	Soil		0.7	18.8	8.1	41	<0.1	13.2	8.5	403	1.74	12.1	1.0	2.0	2.5	8	<0.1	0.6	0.1	26	0.08	0.044
1539139	Soil		0.7	23.0	9.3	52	<0.1	18.0	8.6	275	1.87	10.4	0.8	5.3	6.3	9	0.1	0.8	0.2	20	0.09	0.052
1539135	Soil		0.6	11.0	7.1	38	<0.1	10.2	9.7	464	1.69	11.2	0.6	<0.5	2.3	5	<0.1	0.6	0.2	21	0.06	0.046
1539162	Soil		0.5	20.4	6.9	37	<0.1	13.3	6.9	303	1.49	12.3	0.7	3.3	4.2	7	<0.1	0.7	0.1	18	0.08	0.050
1539158	Soil		0.6	26.2	8.3	37	<0.1	16.0	6.5	222	1.78	11.8	1.0	2.6	3.7	7	<0.1	0.6	0.2	27	0.07	0.030
1539155	Soil		0.5	19.1	7.3	37	<0.1	13.9	6.9	299	1.55	15.3	0.6	33.8	3.6	7	<0.1	0.8	0.1	18	0.09	0.048
1539136	Soil		0.6	23.0	9.9	58	<0.1	21.9	10.1	395	2.05	13.1	0.9	20.5	6.0	9	0.2	0.8	0.2	23	0.10	0.051
1539154	Soil		0.8	26.4	10.5	48	<0.1	17.9	8.5	374	1.84	14.6	0.9	7.6	4.5	9	<0.1	0.9	0.2	21	0.09	0.055
1539161	Soil		0.5	16.6	7.0	46	<0.1	14.3	7.7	400	1.69	11.1	1.3	4.2	4.5	8	0.1	0.6	0.1	22	0.09	0.043

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Project: MCQ
Report Date: September 07, 2017

CERTIFICATE OF ANALYSIS WHI17000675.1

		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
1539109	Soil		18	14	0.26	113	0.014	<1	0.72	0.002	0.03	0.6	0.02	1.7	<0.1	<0.05	2	<0.5	<0.2
1539110	Soil		22	16	0.44	99	0.019	<1	0.99	0.003	0.04	0.2	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
1548529	Soil		15	14	0.26	124	0.014	<1	0.76	0.003	0.03	0.2	0.04	2.2	<0.1	<0.05	2	<0.5	<0.2
1539112	Soil		11	11	0.20	110	0.006	<1	0.64	0.002	0.02	0.2	0.03	0.7	<0.1	<0.05	2	<0.5	<0.2
1539142	Soil		11	11	0.25	51	0.014	<1	0.65	0.003	0.03	0.2	0.01	1.4	<0.1	<0.05	2	0.5	<0.2
1539148	Soil		13	18	0.29	109	0.017	<1	1.08	0.003	0.03	0.3	0.03	1.7	<0.1	<0.05	3	0.5	<0.2
1539149	Soil		14	14	0.25	86	0.014	<1	0.87	0.002	0.02	0.2	0.03	1.8	<0.1	<0.05	2	<0.5	<0.2
1539104	Soil		12	11	0.24	54	0.013	<1	0.69	0.002	0.03	0.1	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1539141	Soil		12	15	0.28	64	0.015	<1	0.81	0.002	0.03	0.3	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1539152	Soil		17	20	0.33	118	0.011	1	0.80	0.002	0.03	0.1	0.02	1.7	0.1	<0.05	2	<0.5	<0.2
1539150	Soil		13	14	0.25	76	0.012	<1	0.76	0.002	0.02	0.3	0.03	1.4	<0.1	<0.05	2	<0.5	<0.2
1539101	Soil		10	9	0.19	36	0.011	<1	0.52	0.002	0.03	0.2	<0.01	1.0	<0.1	<0.05	1	<0.5	<0.2
1539143	Soil		11	13	0.25	45	0.013	1	0.75	0.002	0.02	0.3	0.02	1.3	<0.1	<0.05	2	<0.5	<0.2
1539144	Soil		12	12	0.25	79	0.012	<1	0.68	0.002	0.02	0.2	0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
1539151	Soil		13	14	0.27	83	0.011	<1	0.80	0.002	0.02	0.3	0.02	1.3	<0.1	<0.05	2	<0.5	<0.2
1539103	Soil		11	12	0.23	84	0.012	<1	0.68	0.002	0.03	0.3	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1539140	Soil		14	18	0.27	137	0.012	<1	0.98	0.003	0.03	0.2	0.03	1.9	<0.1	<0.05	3	0.6	<0.2
1539147	Soil		18	15	0.29	106	0.015	<1	0.93	0.003	0.03	0.4	0.03	2.1	<0.1	<0.05	2	<0.5	<0.2
1539146	Soil		15	18	0.32	140	0.021	<1	1.11	0.004	0.03	0.3	0.05	3.1	<0.1	<0.05	3	<0.5	<0.2
1539145	Soil		11	13	0.23	83	0.014	1	0.63	0.002	0.02	0.3	0.01	1.3	<0.1	<0.05	2	<0.5	<0.2
1539160	Soil		11	10	0.19	57	0.013	<1	0.47	0.002	0.02	0.3	0.02	1.1	<0.1	<0.05	1	<0.5	<0.2
1539159	Soil		16	15	0.25	149	0.015	<1	0.76	0.004	0.03	0.3	0.04	2.2	<0.1	<0.05	2	<0.5	<0.2
1539139	Soil		21	13	0.32	121	0.012	<1	0.78	0.002	0.03	0.2	0.03	1.7	<0.1	<0.05	2	<0.5	<0.2
1539135	Soil		13	13	0.24	54	0.014	<1	0.65	0.002	0.02	0.2	0.02	1.7	0.1	<0.05	2	<0.5	<0.2
1539162	Soil		12	11	0.24	65	0.013	<1	0.62	0.002	0.03	0.2	0.04	1.7	<0.1	<0.05	2	<0.5	<0.2
1539158	Soil		15	16	0.29	175	0.017	<1	0.89	0.004	0.03	0.3	0.05	2.4	<0.1	<0.05	2	<0.5	<0.2
1539155	Soil		13	11	0.23	71	0.014	<1	0.57	0.002	0.03	0.4	0.03	1.7	<0.1	<0.05	2	<0.5	<0.2
1539136	Soil		18	20	0.33	78	0.016	<1	0.92	0.003	0.03	0.3	0.03	2.0	<0.1	<0.05	2	<0.5	<0.2
1539154	Soil		16	13	0.27	117	0.014	<1	0.68	0.002	0.03	0.3	0.03	2.2	<0.1	<0.05	2	<0.5	<0.2
1539161	Soil		12	14	0.28	94	0.015	<1	0.90	0.003	0.02	0.2	0.02	1.9	<0.1	<0.05	2	<0.5	<0.2

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Project: MCQ
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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
1539156	Soil	0.5	19.8	7.3	38	<0.1	14.6	6.4	178	1.64	10.5	0.8	2.3	4.4	7	<0.1	0.8	0.1	24	0.07	0.032
1539137	Soil	0.5	15.4	7.2	46	<0.1	15.1	7.5	261	1.66	13.8	0.5	1.5	4.1	10	0.1	0.8	0.1	18	0.12	0.059
1539153	Soil	0.7	7.5	6.7	33	<0.1	8.9	16.7	1293	1.76	12.1	0.3	1.0	2.7	5	<0.1	0.5	0.1	22	0.05	0.048
1539163	Soil	0.6	12.0	7.4	38	<0.1	11.3	5.8	184	1.67	12.0	0.6	1.2	2.9	7	<0.1	0.6	0.1	21	0.09	0.058
1539157	Soil	0.6	13.9	7.4	36	<0.1	12.2	6.9	254	1.63	11.6	0.9	3.0	3.3	6	<0.1	0.8	0.1	22	0.06	0.040
1539138	Soil	0.5	11.3	8.0	47	<0.1	14.2	8.8	377	1.77	12.9	0.6	1.4	4.3	10	0.1	0.7	0.1	22	0.11	0.073
1546118	Soil	0.8	26.9	11.6	62	<0.1	22.1	9.2	242	2.45	6.7	1.4	2.4	8.9	7	0.1	1.4	0.2	21	0.05	0.040
1546139	Soil	0.8	14.7	8.9	42	<0.1	13.3	6.3	242	1.82	9.9	0.8	13.1	2.5	7	0.1	0.8	0.2	26	0.06	0.053
1546137	Soil	0.7	19.9	9.3	47	<0.1	16.2	7.6	244	1.93	9.5	1.1	2.3	3.1	7	0.1	0.8	0.1	23	0.07	0.050
1546142	Soil	0.8	8.7	8.1	38	<0.1	10.3	6.0	217	1.42	10.6	0.4	1.4	1.5	5	<0.1	0.7	0.1	20	0.04	0.036
1546113	Soil	0.9	22.5	11.8	55	<0.1	18.7	7.8	253	2.18	9.0	1.2	1.6	4.0	9	<0.1	1.0	0.2	25	0.07	0.049
1546141	Soil	0.6	16.5	8.0	52	<0.1	14.4	7.6	255	1.72	8.9	0.9	2.9	1.0	8	0.2	0.6	0.1	25	0.08	0.057
1546138	Soil	0.9	21.7	11.1	58	<0.1	18.7	8.4	258	2.37	10.3	1.3	2.7	6.3	7	0.1	1.0	0.2	27	0.06	0.052
1546144	Soil	0.7	14.3	7.8	52	<0.1	15.9	8.2	314	1.80	12.3	0.5	3.5	3.9	10	0.1	0.7	0.1	21	0.12	0.076
1546111	Soil	0.9	23.4	13.7	61	<0.1	18.8	7.9	225	2.10	8.2	1.2	3.0	9.2	10	0.1	1.2	0.2	19	0.09	0.054
1546143	Soil	0.7	16.5	8.2	49	<0.1	14.7	6.6	235	1.62	10.7	0.8	2.0	2.0	9	0.1	0.8	0.1	24	0.09	0.055
1546136	Soil	0.8	12.8	8.4	45	<0.1	13.5	6.2	242	1.97	10.1	0.7	51.3	2.3	9	0.1	0.7	0.1	25	0.09	0.059
1546134	Soil	0.6	16.8	7.9	44	<0.1	13.5	7.9	267	1.67	12.4	0.7	8.2	3.7	7	<0.1	0.8	0.1	20	0.08	0.053
1546112	Soil	0.6	25.7	11.9	56	<0.1	17.7	7.8	227	2.01	6.2	1.3	6.0	10.0	10	0.2	1.0	0.3	16	0.06	0.042
1546114	Soil	0.7	21.7	9.6	50	<0.1	15.0	6.6	225	1.65	9.9	1.0	27.1	1.7	9	0.1	0.8	0.2	24	0.08	0.059
1546140	Soil	0.7	19.2	9.1	46	<0.1	13.4	6.3	220	1.71	10.4	1.0	5.1	2.6	8	0.1	0.7	0.2	26	0.08	0.057
1546135	Soil	0.7	14.3	8.8	41	<0.1	11.1	5.2	187	1.69	9.1	0.9	8.9	0.8	8	0.1	0.6	0.2	24	0.07	0.053
1546132	Soil	0.8	16.7	9.3	46	<0.1	14.5	6.0	206	1.81	11.5	0.7	11.3	4.1	8	0.1	0.9	0.2	27	0.08	0.057
1546129	Soil	0.7	21.9	10.4	48	<0.1	12.6	5.4	167	1.85	8.1	1.1	9.8	3.8	11	0.2	0.7	0.2	23	0.09	0.056
1546117	Soil	0.8	25.2	11.9	56	<0.1	18.1	7.8	239	2.20	8.6	1.3	1.3	3.2	8	0.2	1.0	0.3	25	0.06	0.056
1546110	Soil	0.6	15.5	8.7	47	<0.1	15.3	10.6	486	1.72	12.1	0.9	2.8	4.0	10	0.2	0.8	0.2	23	0.10	0.067
1546125	Soil	0.6	11.3	8.1	34	<0.1	9.6	3.5	81	1.37	7.9	0.7	1.8	0.2	12	<0.1	0.7	0.2	25	0.15	0.054
1546131	Soil	0.6	19.0	8.8	48	<0.1	15.4	7.2	188	1.69	11.1	0.8	1.8	3.5	9	0.1	0.8	0.2	23	0.09	0.062
1546120	Soil	1.0	27.9	12.8	56	<0.1	19.1	8.9	271	2.18	8.3	1.4	69.9	5.7	8	0.2	1.4	0.3	23	0.05	0.044
1546116	Soil	1.0	25.0	11.7	55	<0.1	16.9	7.1	186	2.22	7.1	1.4	1.4	2.1	8	0.1	1.1	0.3	24	0.05	0.050

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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
1539156	Soil		13	14	0.27	98	0.018	1	0.82	0.003	0.02	0.2	0.03	2.0	<0.1	<0.05	2	<0.5	<0.2
1539137	Soil		12	12	0.24	54	0.012	<1	0.72	0.002	0.03	0.2	0.02	1.4	<0.1	<0.05	1	<0.5	<0.2
1539153	Soil		9	13	0.22	35	0.016	<1	0.64	0.002	0.02	0.3	<0.01	1.1	<0.1	<0.05	2	<0.5	<0.2
1539163	Soil		12	14	0.26	107	0.014	<1	0.72	0.002	0.03	0.2	0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
1539157	Soil		12	14	0.27	86	0.016	<1	0.78	0.002	0.02	0.3	0.03	2.1	<0.1	<0.05	2	0.6	<0.2
1539138	Soil		12	13	0.27	50	0.015	<1	0.73	0.002	0.03	0.2	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1546118	Soil		32	17	0.36	138	0.008	<1	0.85	0.002	0.03	0.2	0.02	1.8	<0.1	<0.05	2	<0.5	<0.2
1546139	Soil		17	16	0.27	83	0.012	<1	0.75	0.002	0.03	0.3	0.03	1.5	<0.1	<0.05	3	<0.5	<0.2
1546137	Soil		19	14	0.25	95	0.010	<1	0.78	0.002	0.03	0.3	0.04	1.7	<0.1	<0.05	2	<0.5	<0.2
1546142	Soil		9	10	0.19	38	0.012	<1	0.43	0.002	0.03	0.2	<0.01	0.8	<0.1	<0.05	2	<0.5	<0.2
1546113	Soil		22	16	0.29	218	0.011	<1	0.85	0.003	0.03	0.2	0.06	2.2	<0.1	<0.05	2	<0.5	<0.2
1546141	Soil		12	16	0.28	111	0.012	<1	0.90	0.003	0.03	0.2	0.03	1.3	<0.1	<0.05	2	<0.5	<0.2
1546138	Soil		22	16	0.31	135	0.012	<1	0.92	0.002	0.03	0.2	0.04	2.2	<0.1	<0.05	3	<0.5	<0.2
1546144	Soil		11	12	0.26	66	0.011	<1	0.67	0.002	0.02	0.2	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1546111	Soil		27	13	0.30	81	0.010	<1	0.71	0.002	0.03	0.3	0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
1546143	Soil		12	13	0.26	121	0.014	<1	0.71	0.002	0.03	0.2	0.02	1.8	<0.1	<0.05	2	<0.5	<0.2
1546136	Soil		14	14	0.24	61	0.012	<1	0.70	0.002	0.03	0.4	0.01	1.3	<0.1	<0.05	2	<0.5	<0.2
1546134	Soil		12	12	0.23	77	0.012	<1	0.60	0.002	0.02	0.2	0.03	1.8	<0.1	<0.05	2	<0.5	<0.2
1546112	Soil		35	14	0.30	162	0.009	1	0.65	0.002	0.03	0.1	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1546114	Soil		19	13	0.24	164	0.011	<1	0.68	0.003	0.03	0.2	0.04	1.4	<0.1	<0.05	2	<0.5	<0.2
1546140	Soil		15	15	0.25	91	0.014	1	0.82	0.002	0.03	0.3	0.04	1.6	<0.1	<0.05	2	<0.5	<0.2
1546135	Soil		16	13	0.22	97	0.009	<1	0.71	0.002	0.02	0.2	0.03	0.9	<0.1	<0.05	2	<0.5	<0.2
1546132	Soil		14	15	0.24	71	0.017	1	0.75	0.003	0.03	0.3	0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
1546129	Soil		26	14	0.31	154	0.012	<1	0.74	0.002	0.03	0.2	0.02	1.3	<0.1	<0.05	2	<0.5	<0.2
1546117	Soil		29	18	0.29	155	0.009	<1	0.84	0.002	0.03	0.2	0.04	1.7	0.1	<0.05	3	<0.5	<0.2
1546110	Soil		14	13	0.23	72	0.014	<1	0.76	0.002	0.03	0.3	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1546125	Soil		13	13	0.20	136	0.006	<1	0.70	0.003	0.03	0.3	0.04	0.5	<0.1	<0.05	2	<0.5	<0.2
1546131	Soil		15	13	0.23	93	0.014	<1	0.75	0.003	0.03	0.3	0.01	1.6	<0.1	<0.05	2	<0.5	<0.2
1546120	Soil		30	15	0.28	166	0.010	<1	0.76	0.002	0.03	0.2	0.03	1.7	<0.1	<0.05	2	<0.5	<0.2
1546116	Soil		29	17	0.31	110	0.009	<1	0.84	0.002	0.03	0.2	0.04	1.2	<0.1	<0.05	3	<0.5	<0.2

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Dawson City Yukon Y0B 1G0 Canada

Project: MCQ
Report Date: September 07, 2017

CERTIFICATE OF ANALYSIS WHI17000675.1

		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
1546124	Soil		0.6	12.4	8.6	36	<0.1	11.3	3.9	95	1.46	8.1	0.8	4.0	0.2	14	<0.1	1.0	0.2	24	0.17	0.053
1546130	Soil		0.7	17.8	8.4	41	<0.1	13.3	5.5	143	1.69	10.0	1.0	2.0	3.4	9	0.1	0.6	0.1	28	0.09	0.051
1546119	Soil		0.6	20.0	9.8	50	<0.1	15.7	7.2	193	1.84	9.3	1.2	2.7	4.2	9	<0.1	0.9	0.2	24	0.07	0.056
1546115	Soil		1.0	30.8	13.6	63	<0.1	24.0	9.7	280	2.47	7.6	1.4	3.0	3.7	9	0.2	1.4	0.2	23	0.06	0.051
1546126	Soil		1.0	15.0	9.8	44	0.1	14.8	5.7	157	1.92	9.9	1.0	6.7	1.4	16	0.1	0.8	0.2	29	0.17	0.059
1546133	Soil		0.6	22.3	8.5	53	<0.1	15.7	9.1	354	1.71	12.1	0.7	30.2	4.7	10	0.1	0.9	0.1	22	0.10	0.063
1546163	Soil		0.8	19.3	10.7	45	<0.1	14.1	6.4	180	1.85	11.1	1.0	1.9	5.5	7	<0.1	0.7	0.1	27	0.05	0.050
1546121	Soil		0.9	23.6	11.4	56	<0.1	18.0	8.2	301	2.17	10.3	1.3	2.9	4.8	8	0.1	1.3	0.2	25	0.06	0.054
1546173	Soil		0.5	22.1	7.6	45	<0.1	14.2	6.8	209	1.51	11.0	1.1	2.3	4.0	10	0.1	0.7	0.1	22	0.10	0.052
1546167	Soil		0.7	20.9	9.8	54	<0.1	17.3	6.7	219	1.92	12.5	0.9	25.4	5.6	9	0.1	0.8	0.2	27	0.08	0.055
1546165	Soil		0.8	20.9	9.7	45	<0.1	14.9	6.3	218	1.80	12.1	1.1	3.9	3.0	8	0.2	0.8	0.2	29	0.06	0.052
1546127	Soil		1.1	16.9	9.6	49	<0.1	17.0	7.6	186	1.84	7.4	1.2	3.2	2.9	20	0.1	1.3	0.2	27	0.25	0.061
1546174	Soil		0.9	20.4	9.8	52	<0.1	16.2	7.5	221	1.98	12.4	1.0	12.1	3.4	9	0.1	0.8	0.2	27	0.08	0.056
1546168	Soil		0.6	22.5	9.3	61	<0.1	17.2	10.6	366	1.89	15.0	1.0	2.8	5.3	9	0.2	0.9	0.1	22	0.10	0.059
1546171	Soil		0.5	26.7	9.3	50	<0.1	17.0	9.0	390	1.78	12.5	1.1	2.9	4.7	9	0.1	0.8	0.2	22	0.09	0.060
1546128	Soil		0.7	23.5	8.6	53	<0.1	16.0	7.9	159	1.71	11.9	1.0	1.7	4.1	15	0.2	0.8	0.1	22	0.17	0.061
1546184	Soil		0.8	17.9	11.1	46	<0.1	15.6	6.7	195	1.89	9.8	0.8	1.0	1.2	9	0.2	0.7	0.2	24	0.09	0.045
1546169	Soil		0.6	20.4	8.5	49	<0.1	16.1	8.5	289	1.63	11.6	1.0	2.0	5.0	10	<0.1	0.8	0.1	21	0.11	0.065
1546164	Soil		0.8	15.0	8.7	40	<0.1	11.8	5.7	168	1.70	11.5	0.7	4.8	3.4	6	<0.1	0.7	0.1	28	0.05	0.038
1546122	Soil		0.7	10.5	9.0	39	<0.1	9.6	4.0	126	1.76	9.6	0.9	1.1	2.8	7	<0.1	0.6	0.2	28	0.07	0.056
1546172	Soil		0.7	20.1	9.0	45	<0.1	14.7	6.6	201	1.68	12.9	0.9	2.4	2.9	9	<0.1	0.7	0.2	26	0.09	0.052
1546170	Soil		0.6	25.6	9.2	55	<0.1	17.9	8.7	306	1.76	15.0	0.8	1.9	4.6	8	0.1	0.8	0.1	21	0.08	0.050
1546166	Soil		0.8	22.8	9.3	51	<0.1	17.5	8.8	280	1.88	11.2	1.3	1.4	4.1	8	0.1	0.9	0.2	25	0.07	0.047
1546123	Soil		0.9	11.4	9.1	35	<0.1	10.3	3.6	108	1.66	10.5	0.7	1.3	1.0	7	<0.1	0.6	0.2	27	0.07	0.062
1539172	Soil		0.7	15.7	8.3	38	<0.1	12.7	5.0	152	1.65	10.3	0.8	2.3	2.7	5	<0.1	0.7	0.3	23	0.05	0.040
1546181	Soil		1.1	34.8	14.0	85	<0.1	32.0	11.4	374	2.63	10.0	1.2	42.3	6.8	12	0.3	1.5	0.4	31	0.09	0.060
1546176	Soil		0.6	19.7	7.4	42	<0.1	11.3	6.1	206	1.57	9.7	1.2	1.8	3.7	6	<0.1	0.7	0.2	22	0.06	0.044
1546177	Soil		0.9	11.4	8.1	36	<0.1	8.6	6.2	333	1.64	9.7	1.0	4.1	1.7	5	<0.1	0.6	0.2	27	0.04	0.041
1539173	Soil		0.5	23.2	8.8	44	<0.1	16.9	7.6	267	1.78	12.3	1.0	3.0	3.8	7	0.1	0.7	0.2	24	0.07	0.046
1546180	Soil		0.6	18.1	7.6	45	<0.1	13.9	6.1	180	1.52	8.3	0.8	24.0	2.6	7	0.1	0.6	0.2	23	0.07	0.047

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Project: MCQ
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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
1546124	Soil	15	13	0.21	128	0.006	<1	0.69	0.003	0.03	0.3	0.03	0.5	<0.1	<0.05	2	<0.5	<0.2
1546130	Soil	17	15	0.23	143	0.018	1	0.77	0.003	0.03	0.2	0.03	2.3	<0.1	<0.05	2	<0.5	<0.2
1546119	Soil	22	14	0.25	127	0.013	<1	0.76	0.002	0.03	0.2	0.03	1.7	<0.1	<0.05	2	<0.5	<0.2
1546115	Soil	35	18	0.30	201	0.008	<1	0.77	0.003	0.04	0.2	0.04	1.4	<0.1	<0.05	2	<0.5	<0.2
1546126	Soil	18	15	0.25	129	0.008	1	0.77	0.003	0.03	0.3	0.04	1.3	<0.1	<0.05	2	<0.5	<0.2
1546133	Soil	16	13	0.24	117	0.015	1	0.65	0.003	0.03	0.2	0.02	2.1	<0.1	<0.05	2	<0.5	<0.2
1546163	Soil	22	16	0.25	74	0.017	<1	0.87	0.002	0.03	0.2	0.03	1.9	<0.1	<0.05	2	<0.5	<0.2
1546121	Soil	26	16	0.29	149	0.013	<1	0.86	0.002	0.03	0.3	0.04	2.1	<0.1	<0.05	2	<0.5	<0.2
1546173	Soil	16	13	0.24	208	0.016	1	0.66	0.003	0.02	0.3	0.02	2.0	<0.1	<0.05	2	<0.5	<0.2
1546167	Soil	18	18	0.29	61	0.018	1	0.92	0.002	0.03	0.4	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1546165	Soil	21	19	0.27	144	0.018	1	0.85	0.003	0.03	0.3	0.03	2.1	<0.1	<0.05	2	<0.5	<0.2
1546127	Soil	19	15	0.27	121	0.008	1	0.75	0.003	0.03	0.3	0.03	1.7	<0.1	<0.05	2	0.6	<0.2
1546174	Soil	18	16	0.29	68	0.018	1	0.84	0.003	0.03	0.3	0.03	1.7	<0.1	<0.05	2	<0.5	<0.2
1546168	Soil	15	14	0.26	66	0.016	2	0.79	0.002	0.03	0.3	0.02	1.7	<0.1	<0.05	2	<0.5	<0.2
1546171	Soil	16	14	0.26	111	0.016	1	0.71	0.003	0.03	0.3	0.02	2.3	<0.1	<0.05	2	<0.5	<0.2
1546128	Soil	17	13	0.26	196	0.016	<1	0.62	0.003	0.03	0.2	0.04	2.0	<0.1	<0.05	2	<0.5	<0.2
1546184	Soil	20	14	0.23	71	0.010	1	0.70	0.002	0.03	0.2	0.02	0.8	<0.1	<0.05	2	<0.5	<0.2
1546169	Soil	15	13	0.24	76	0.016	1	0.65	0.002	0.02	0.2	0.02	1.7	<0.1	<0.05	2	<0.5	<0.2
1546164	Soil	14	16	0.22	63	0.019	1	0.82	0.002	0.02	0.2	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1546122	Soil	14	15	0.23	74	0.013	1	0.82	0.002	0.03	0.2	0.02	1.4	<0.1	<0.05	3	<0.5	<0.2
1546172	Soil	17	15	0.25	121	0.017	1	0.75	0.003	0.03	0.4	0.03	1.7	<0.1	<0.05	2	<0.5	<0.2
1546170	Soil	17	15	0.25	148	0.015	1	0.69	0.002	0.03	0.2	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
1546166	Soil	22	16	0.27	72	0.019	1	0.77	0.002	0.03	0.3	0.02	2.2	<0.1	<0.05	2	<0.5	<0.2
1546123	Soil	15	14	0.21	84	0.011	1	0.69	0.002	0.03	0.4	0.03	1.0	<0.1	<0.05	2	<0.5	<0.2
1539172	Soil	13	15	0.25	62	0.013	<1	0.74	0.002	0.02	0.3	0.02	1.1	<0.1	<0.05	2	<0.5	<0.2
1546181	Soil	28	23	0.40	203	0.016	1	0.93	0.003	0.04	0.4	0.04	2.4	<0.1	<0.05	3	<0.5	<0.2
1546176	Soil	16	12	0.24	72	0.017	<1	0.74	0.003	0.02	0.2	0.03	2.3	<0.1	<0.05	2	<0.5	<0.2
1546177	Soil	13	15	0.23	94	0.017	<1	0.78	0.003	0.02	0.1	0.02	1.6	<0.1	<0.05	3	<0.5	<0.2
1539173	Soil	17	16	0.28	97	0.016	<1	0.84	0.003	0.02	0.3	0.04	1.9	<0.1	<0.05	2	<0.5	<0.2
1546180	Soil	14	14	0.24	91	0.017	<1	0.81	0.003	0.02	0.3	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2

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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
1546175	Soil		0.8	19.8	9.7	52	<0.1	14.8	7.2	211	1.99	12.1	0.9	2.5	2.8	8	0.1	0.9	0.2	27	0.08	0.059
1546179	Soil		1.3	19.5	11.5	64	<0.1	16.7	7.0	313	2.05	13.8	0.7	17.8	3.0	9	0.2	1.3	0.2	36	0.07	0.054
1539175	Soil		0.6	22.6	9.8	48	<0.1	18.1	8.5	299	1.84	12.5	1.2	29.7	5.7	8	0.1	0.8	0.2	24	0.08	0.057
1539171	Soil		0.6	20.0	8.6	39	<0.1	15.1	6.9	212	1.63	12.8	0.9	4.0	4.3	6	<0.1	0.8	0.2	24	0.06	0.037
1546182	Soil		0.6	18.5	8.4	45	<0.1	13.8	7.2	226	1.69	10.7	1.1	2.9	4.8	8	<0.1	0.7	0.2	25	0.08	0.050
1546183	Soil		0.7	20.3	11.1	45	<0.1	15.2	6.8	200	1.93	9.3	1.1	3.7	5.4	8	<0.1	0.7	0.2	25	0.06	0.037
1539174	Soil		0.6	18.7	8.3	45	<0.1	17.0	7.6	220	1.67	9.6	1.0	3.9	4.4	6	<0.1	0.6	0.2	20	0.06	0.041
1539170	Soil		0.7	9.9	8.4	30	<0.1	9.9	4.0	132	1.50	9.6	0.6	1.6	0.3	5	<0.1	0.4	0.2	27	0.04	0.055
1546178	Soil		0.8	25.0	9.3	55	<0.1	16.8	6.7	276	1.71	12.0	1.1	18.8	3.7	9	0.2	0.8	0.2	27	0.08	0.051
1546185	Soil		0.8	21.3	9.7	53	<0.1	18.6	7.3	242	1.87	11.0	0.9	1.5	3.5	8	0.2	1.0	0.2	26	0.08	0.052
1547831	Soil		0.7	16.7	11.7	41	<0.1	13.0	5.1	104	1.78	13.0	1.0	3.6	4.3	8	<0.1	2.8	0.2	25	0.07	0.048
1547858	Soil		0.5	12.1	10.0	38	0.1	11.2	3.6	65	1.45	7.1	0.8	14.1	1.5	9	0.1	0.9	0.2	23	0.06	0.047
1539168	Soil		0.7	12.4	8.3	46	<0.1	11.5	7.1	285	1.74	12.7	0.9	1.1	2.7	8	<0.1	0.6	0.2	27	0.08	0.054
1539164	Soil		0.6	23.8	7.6	39	<0.1	15.0	7.1	377	1.64	13.5	1.1	6.3	4.3	7	<0.1	0.8	0.2	20	0.07	0.042
1547828	Soil		0.9	16.8	12.5	37	0.1	13.4	4.3	95	1.92	9.3	1.0	2.5	1.2	8	<0.1	1.4	0.2	30	0.06	0.065
1547833	Soil		0.7	24.3	11.4	58	<0.1	19.3	7.4	154	2.25	11.3	1.2	16.5	8.6	9	<0.1	3.6	0.2	24	0.07	0.039
1539169	Soil		0.5	23.7	8.7	40	<0.1	14.2	7.1	244	1.57	9.2	1.3	3.8	4.6	8	<0.1	0.7	0.1	27	0.07	0.041
1539165	Soil		0.8	18.2	7.7	46	<0.1	13.0	7.5	244	1.86	11.6	2.0	2.4	3.9	6	<0.1	0.8	0.1	27	0.06	0.042
1547859	Soil		0.5	12.1	9.9	34	<0.1	9.6	3.2	63	1.51	9.1	0.9	2.1	1.9	9	<0.1	0.8	0.2	25	0.07	0.044
1547857	Soil		1.1	15.9	11.7	34	<0.1	10.9	3.1	58	2.55	28.2	1.2	5.9	1.2	8	0.1	1.4	0.2	31	0.06	0.060
1547856	Soil		0.5	9.1	8.8	38	<0.1	9.4	3.0	66	1.62	16.6	0.7	2.7	3.8	8	<0.1	1.2	0.2	21	0.07	0.059
1539166	Soil		0.7	15.5	9.3	51	<0.1	15.0	7.9	299	1.89	12.2	1.4	3.0	5.3	7	0.1	0.8	0.2	31	0.06	0.042
1547829	Soil		0.7	18.4	11.8	49	<0.1	16.0	5.7	114	1.95	9.1	1.1	2.5	5.9	8	<0.1	2.6	0.2	25	0.07	0.051
1547830	Soil		0.5	12.1	9.8	33	0.1	10.7	3.4	71	1.46	8.6	0.8	2.9	1.5	6	<0.1	2.1	0.2	21	0.06	0.051
1547832	Soil		0.6	16.6	9.9	41	<0.1	16.5	5.2	117	1.74	9.1	0.9	3.1	4.6	8	<0.1	2.4	0.1	25	0.07	0.046
1539167	Soil		0.3	25.0	7.2	42	<0.1	14.4	5.5	238	1.25	6.6	1.0	2.1	4.0	7	<0.1	0.6	0.1	22	0.08	0.038
1547827	Soil		0.6	19.1	11.1	47	<0.1	15.1	6.0	135	1.93	9.0	1.2	2.1	3.9	8	<0.1	1.7	0.2	27	0.07	0.050
1547834	Soil		0.6	19.6	10.3	47	<0.1	16.8	6.1	134	1.95	11.0	1.0	2.4	6.7	7	<0.1	3.8	0.2	22	0.05	0.036
1547826	Soil		0.7	18.9	11.7	47	<0.1	13.9	6.3	119	1.94	12.3	1.3	1.5	3.9	9	<0.1	1.4	0.2	29	0.09	0.054
1547837	Soil		0.7	19.7	12.2	54	<0.1	14.9	6.0	113	2.05	10.5	1.2	31.6	7.6	11	0.1	4.7	0.2	21	0.08	0.039

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Project: MCQ
Report Date: September 07, 2017

CERTIFICATE OF ANALYSIS WHI17000675.1

	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
1546175	Soil	16	16	0.28	65	0.015	<1	0.83	0.002	0.02	0.4	0.04	1.5	<0.1	<0.05	2	<0.5	<0.2
1546179	Soil	15	17	0.28	51	0.024	1	0.64	0.002	0.04	0.5	0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
1539175	Soil	19	18	0.26	70	0.017	<1	0.73	0.002	0.03	0.5	0.03	1.7	<0.1	<0.05	2	<0.5	<0.2
1539171	Soil	15	15	0.25	89	0.021	<1	0.79	0.003	0.02	0.4	0.02	1.7	<0.1	<0.05	2	<0.5	<0.2
1546182	Soil	20	15	0.26	82	0.022	<1	0.76	0.003	0.03	0.4	0.03	2.4	<0.1	<0.05	2	<0.5	<0.2
1546183	Soil	24	15	0.26	139	0.015	1	0.78	0.003	0.03	0.2	0.02	1.9	<0.1	<0.05	2	<0.5	<0.2
1539174	Soil	19	16	0.26	95	0.014	<1	0.68	0.002	0.03	0.2	0.02	1.8	<0.1	<0.05	2	<0.5	<0.2
1539170	Soil	14	16	0.23	51	0.010	<1	0.67	0.002	0.02	0.3	0.01	0.6	<0.1	<0.05	2	<0.5	<0.2
1546178	Soil	19	16	0.28	134	0.019	<1	0.80	0.003	0.03	0.3	0.03	1.9	<0.1	<0.05	2	<0.5	<0.2
1546185	Soil	19	17	0.28	122	0.016	<1	0.74	0.002	0.03	0.3	0.04	1.6	<0.1	<0.05	2	<0.5	<0.2
1547831	Soil	19	17	0.25	118	0.010	<1	0.80	0.002	0.03	0.2	0.02	1.8	<0.1	<0.05	2	<0.5	<0.2
1547858	Soil	18	15	0.25	152	0.006	<1	0.86	0.003	0.03	0.4	0.05	1.1	<0.1	<0.05	3	<0.5	<0.2
1539168	Soil	15	15	0.27	112	0.016	<1	0.82	0.003	0.03	0.2	0.02	1.7	0.1	<0.05	2	<0.5	<0.2
1539164	Soil	17	12	0.23	112	0.016	<1	0.63	0.002	0.02	0.3	0.03	1.9	<0.1	<0.05	2	<0.5	<0.2
1547828	Soil	18	24	0.29	135	0.009	<1	0.98	0.003	0.03	0.3	0.04	1.4	<0.1	<0.05	3	<0.5	<0.2
1547833	Soil	36	22	0.35	161	0.011	<1	0.87	0.003	0.03	0.2	0.02	2.1	<0.1	<0.05	2	<0.5	<0.2
1539169	Soil	17	14	0.26	146	0.017	<1	0.77	0.003	0.02	0.4	0.03	2.1	<0.1	<0.05	2	<0.5	<0.2
1539165	Soil	16	15	0.25	112	0.019	<1	0.82	0.003	0.02	0.2	0.02	2.4	<0.1	<0.05	2	<0.5	<0.2
1547859	Soil	17	14	0.22	139	0.008	<1	0.82	0.003	0.03	0.2	0.03	1.2	<0.1	<0.05	3	<0.5	<0.2
1547857	Soil	21	17	0.24	158	0.007	<1	0.96	0.003	0.03	0.2	0.05	1.4	<0.1	<0.05	3	<0.5	<0.2
1547856	Soil	17	13	0.24	83	0.009	<1	0.71	0.002	0.03	0.3	0.03	1.1	<0.1	<0.05	2	<0.5	<0.2
1539166	Soil	16	18	0.31	120	0.026	<1	1.10	0.004	0.03	0.2	0.02	2.2	<0.1	<0.05	3	<0.5	<0.2
1547829	Soil	26	20	0.32	116	0.010	<1	0.87	0.002	0.03	0.2	0.03	1.8	<0.1	<0.05	3	<0.5	<0.2
1547830	Soil	18	16	0.23	70	0.007	<1	0.70	0.002	0.03	0.4	0.04	0.9	<0.1	<0.05	2	<0.5	<0.2
1547832	Soil	21	24	0.31	100	0.010	<1	0.85	0.002	0.03	0.2	0.02	1.7	<0.1	<0.05	2	<0.5	<0.2
1539167	Soil	15	12	0.25	109	0.016	<1	0.72	0.003	0.02	0.3	0.03	1.7	<0.1	<0.05	2	<0.5	<0.2
1547827	Soil	22	20	0.33	127	0.012	<1	0.91	0.003	0.03	0.2	0.04	1.8	<0.1	<0.05	2	<0.5	<0.2
1547834	Soil	26	18	0.27	90	0.009	<1	0.72	0.002	0.03	0.3	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1547826	Soil	20	18	0.28	243	0.012	<1	0.88	0.003	0.03	0.2	0.04	2.2	<0.1	<0.05	3	<0.5	<0.2
1547837	Soil	29	14	0.23	131	0.006	<1	0.72	0.003	0.03	0.2	0.03	1.7	<0.1	<0.05	2	<0.5	<0.2

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Project: MCQ
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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
1547838	Soil	0.7	15.2	10.0	44	<0.1	12.8	5.6	137	1.70	9.3	1.1	4.2	5.0	11	<0.1	2.1	0.3	26	0.10	0.054
1547843	Soil	0.6	32.5	14.0	73	<0.1	19.4	6.7	175	2.87	14.6	1.6	4.9	11.1	11	0.1	1.2	0.4	18	0.05	0.041
1547836	Soil	0.9	30.5	17.4	81	<0.1	25.8	10.8	205	2.75	11.1	2.1	2.4	13.3	11	0.1	9.0	0.4	13	0.04	0.041
1547835	Soil	0.7	19.1	11.0	51	<0.1	16.0	6.0	119	2.00	10.5	1.1	19.7	8.3	10	<0.1	4.1	0.3	20	0.07	0.037
1547846	Soil	0.7	20.7	10.1	53	<0.1	15.5	6.3	128	1.74	9.9	1.1	6.0	4.4	11	0.1	1.1	0.2	24	0.10	0.053
1547845	Soil	0.8	23.1	10.3	52	<0.1	15.4	8.0	179	2.07	10.7	1.2	2.2	4.3	9	<0.1	1.4	0.3	24	0.08	0.051
1547844	Soil	0.7	17.1	9.8	47	<0.1	14.6	5.3	117	1.85	10.4	0.9	151.4	5.0	11	0.1	1.4	0.2	23	0.09	0.054
1547839	Soil	0.6	17.6	9.9	51	<0.1	16.3	7.4	158	1.87	10.6	0.8	39.5	5.1	10	0.1	1.5	0.3	24	0.09	0.052
1547848	Soil	0.8	20.3	11.8	41	0.1	13.0	4.4	84	1.95	12.9	1.1	5.5	2.7	11	<0.1	1.1	0.3	29	0.10	0.056
1547841	Soil	0.8	16.1	10.2	41	<0.1	12.4	4.8	106	1.86	11.3	1.0	45.0	5.4	10	<0.1	1.3	0.2	26	0.08	0.051
1547842	Soil	0.6	20.4	8.9	47	<0.1	14.1	5.9	146	1.76	10.2	1.1	91.5	4.9	11	<0.1	1.3	0.2	23	0.11	0.052
1547840	Soil	0.9	22.8	9.7	57	<0.1	18.9	7.9	186	2.15	10.2	1.0	1.1	6.7	11	0.2	1.9	0.3	26	0.09	0.043
1539095	Soil	0.8	25.7	13.2	45	0.2	15.7	4.9	85	1.90	8.6	1.8	35.9	4.9	17	0.1	0.6	0.3	25	0.16	0.057
1539078	Soil	0.7	36.8	18.2	71	0.2	14.6	6.6	128	3.01	13.5	2.4	1.1	22.1	16	<0.1	0.6	0.4	14	0.03	0.038
1547853	Soil	0.9	12.5	12.6	44	<0.1	12.0	4.2	97	2.23	19.0	0.9	39.6	4.4	8	<0.1	1.7	0.2	27	0.07	0.067
1547855	Soil	0.3	9.6	9.5	32	<0.1	9.1	2.6	54	1.36	6.9	0.8	35.7	0.9	8	<0.1	0.6	0.2	21	0.06	0.052
1539097	Soil	0.7	24.9	11.4	47	<0.1	14.5	5.9	123	1.97	9.9	1.3	3.1	7.1	14	<0.1	0.9	0.2	24	0.14	0.047
1539079	Soil	1.0	32.6	12.5	62	<0.1	23.9	10.4	390	2.75	15.3	2.7	1.8	13.6	10	<0.1	1.1	0.2	24	0.06	0.028
1547847	Soil	0.8	24.1	11.2	51	<0.1	17.4	6.3	136	2.07	12.7	1.1	2.3	3.3	11	0.1	1.3	0.2	25	0.09	0.060
1547852	Soil	0.6	21.4	10.5	43	0.1	13.3	4.5	91	1.67	10.8	1.2	7.5	1.5	10	<0.1	0.8	0.2	26	0.09	0.059
1539068	Soil	0.8	18.1	10.0	48	<0.1	17.3	6.2	128	2.11	14.5	0.7	11.4	5.0	8	<0.1	1.2	0.2	30	0.07	0.033
1539094	Soil	0.6	29.6	9.6	29	0.2	11.5	3.5	66	1.41	8.4	1.6	3.3	0.3	16	0.2	0.4	0.2	23	0.14	0.061
1547850	Soil	0.7	24.7	10.0	45	<0.1	14.7	5.8	110	1.90	11.1	1.2	12.5	5.0	12	<0.1	1.1	0.2	25	0.10	0.049
1547851	Soil	0.7	15.0	9.5	45	<0.1	12.7	4.7	95	1.82	13.8	0.8	51.2	2.4	10	0.1	1.1	0.2	25	0.09	0.058
1539071	Soil	0.9	47.9	18.4	84	<0.1	33.5	13.0	223	3.75	11.0	3.2	0.8	20.1	15	<0.1	0.9	0.5	15	0.03	0.037
1539067	Soil	1.1	20.3	11.1	61	<0.1	19.7	8.2	157	2.47	14.5	0.7	32.0	5.7	9	<0.1	1.5	0.2	30	0.05	0.022
1547849	Soil	0.7	24.8	10.3	45	<0.1	14.1	6.1	113	2.06	12.4	1.3	18.1	5.2	11	<0.1	1.1	0.2	29	0.10	0.051
1547854	Soil	0.4	9.0	8.7	32	<0.1	8.8	2.7	55	1.25	5.7	0.7	2.4	1.1	7	0.1	0.6	0.2	21	0.05	0.044
1539081	Soil	0.6	37.4	9.4	52	<0.1	17.2	7.5	180	1.76	13.9	1.0	6.0	5.1	10	<0.1	0.9	0.2	20	0.10	0.055
1539096	Soil	0.8	21.9	12.4	46	<0.1	13.9	6.8	145	2.02	8.4	1.2	2.1	7.3	12	<0.1	0.7	0.2	25	0.10	0.041

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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
1547838	Soil	21	16	0.25	144	0.011	<1	0.80	0.003	0.03	0.3	0.04	1.8	<0.1	<0.05	2	<0.5	<0.2
1547843	Soil	39	18	0.46	164	0.008	<1	1.01	0.003	0.04	<0.1	0.02	1.6	<0.1	<0.05	3	<0.5	<0.2
1547836	Soil	52	11	0.18	124	0.004	<1	0.57	0.002	0.04	0.1	0.03	2.2	<0.1	<0.05	2	<0.5	<0.2
1547835	Soil	31	16	0.25	160	0.008	<1	0.73	0.003	0.03	0.3	0.04	1.8	<0.1	<0.05	2	<0.5	<0.2
1547846	Soil	21	16	0.29	165	0.012	<1	0.88	0.003	0.03	0.3	0.04	1.9	<0.1	<0.05	3	<0.5	<0.2
1547845	Soil	23	16	0.28	165	0.011	1	0.86	0.003	0.03	0.2	0.04	1.9	<0.1	<0.05	3	<0.5	<0.2
1547844	Soil	21	14	0.25	100	0.012	<1	0.77	0.003	0.03	0.3	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1547839	Soil	18	15	0.26	89	0.013	<1	0.80	0.003	0.04	0.3	0.02	1.4	0.1	<0.05	2	<0.5	<0.2
1547848	Soil	20	17	0.24	218	0.009	1	0.89	0.003	0.04	0.3	0.06	1.7	0.1	<0.05	3	<0.5	<0.2
1547841	Soil	20	17	0.25	121	0.014	1	0.86	0.003	0.04	0.3	0.04	2.0	<0.1	<0.05	3	<0.5	<0.2
1547842	Soil	21	15	0.26	141	0.013	<1	0.76	0.003	0.03	0.2	0.04	1.9	<0.1	<0.05	2	<0.5	<0.2
1547840	Soil	23	17	0.29	155	0.016	<1	0.80	0.003	0.04	0.2	0.03	2.1	<0.1	<0.05	2	<0.5	<0.2
1539095	Soil	27	17	0.31	227	0.006	1	1.09	0.004	0.05	0.2	0.06	1.9	<0.1	<0.05	3	<0.5	<0.2
1539078	Soil	64	15	0.54	156	0.004	<1	1.21	0.003	0.08	0.1	0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
1547853	Soil	23	16	0.27	87	0.009	<1	0.82	0.002	0.03	0.4	0.03	1.3	<0.1	<0.05	3	<0.5	<0.2
1547855	Soil	18	14	0.22	116	0.005	<1	0.78	0.002	0.03	0.2	0.04	0.9	<0.1	<0.05	3	<0.5	<0.2
1539097	Soil	29	16	0.35	238	0.011	<1	0.93	0.003	0.04	0.2	0.03	1.8	<0.1	<0.05	3	<0.5	<0.2
1539079	Soil	41	17	0.46	359	0.013	<1	1.20	0.003	0.05	0.2	0.03	2.9	<0.1	<0.05	3	<0.5	<0.2
1547847	Soil	22	17	0.25	123	0.010	<1	0.79	0.003	0.04	0.3	0.05	1.4	<0.1	<0.05	3	<0.5	<0.2
1547852	Soil	19	16	0.25	181	0.009	1	0.88	0.003	0.04	0.3	0.05	1.5	<0.1	<0.05	3	<0.5	<0.2
1539068	Soil	16	18	0.29	118	0.018	<1	0.98	0.003	0.04	0.3	0.03	1.5	<0.1	<0.05	3	<0.5	<0.2
1539094	Soil	15	14	0.18	223	0.007	<1	0.74	0.004	0.03	0.1	0.05	0.7	<0.1	<0.05	3	<0.5	<0.2
1547850	Soil	24	16	0.26	212	0.012	<1	0.80	0.003	0.03	0.3	0.05	2.2	<0.1	<0.05	2	<0.5	<0.2
1547851	Soil	19	15	0.27	125	0.010	<1	0.81	0.003	0.03	0.3	0.03	1.3	<0.1	<0.05	2	<0.5	<0.2
1539071	Soil	60	24	0.75	106	0.003	<1	1.51	0.003	0.05	<0.1	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
1539067	Soil	18	20	0.32	152	0.014	<1	1.16	0.003	0.04	0.2	<0.01	1.7	<0.1	<0.05	3	<0.5	<0.2
1547849	Soil	23	17	0.26	204	0.014	<1	0.85	0.003	0.03	0.3	0.07	2.4	<0.1	<0.05	3	<0.5	<0.2
1547854	Soil	17	13	0.21	120	0.005	<1	0.75	0.002	0.03	0.3	0.06	0.8	<0.1	<0.05	2	<0.5	<0.2
1539081	Soil	17	13	0.26	119	0.015	1	0.64	0.003	0.03	0.1	0.05	3.0	<0.1	<0.05	2	<0.5	<0.2
1539096	Soil	31	17	0.33	159	0.008	<1	1.04	0.003	0.04	0.2	0.04	1.5	<0.1	<0.05	3	<0.5	<0.2

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Box 213
Dawson City Yukon Y0B 1G0 Canada

Project: MCQ
Report Date: September 07, 2017

CERTIFICATE OF ANALYSIS WHI17000675.1

		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
1539086	Soil		0.7	17.7	8.5	42	<0.1	13.2	6.0	153	1.71	10.6	0.9	3.0	4.1	11	<0.1	0.8	0.1	30	0.12	0.038
1539087	Soil		0.7	18.1	7.8	42	<0.1	13.8	6.4	153	1.68	10.5	0.8	2.4	4.7	12	<0.1	0.9	0.1	24	0.12	0.044
1539082	Soil		0.9	23.7	11.3	60	<0.1	19.3	8.1	198	2.09	11.5	1.1	11.4	5.1	9	0.2	1.2	0.2	24	0.07	0.034
1539099	Soil		0.9	22.4	14.0	54	0.1	14.2	5.2	106	2.11	9.9	1.4	4.9	7.8	15	<0.1	0.7	0.2	24	0.12	0.047
1539073	Soil		1.1	32.5	15.4	70	0.1	21.4	8.8	200	2.85	18.4	1.9	3.4	12.1	12	<0.1	1.4	0.4	25	0.05	0.032
1539070	Soil		0.9	32.6	12.3	67	<0.1	16.5	8.1	171	2.74	8.1	1.8	2.7	13.0	10	<0.1	0.9	0.3	22	0.04	0.032
1539089	Soil		0.7	10.8	6.5	34	<0.1	11.2	4.6	97	1.43	8.9	0.5	2.8	3.2	12	<0.1	0.6	0.1	23	0.13	0.041
1539100	Soil		0.9	26.6	13.2	55	<0.1	17.2	6.1	134	2.24	9.5	1.7	1.8	8.2	15	<0.1	0.8	0.3	26	0.13	0.042
1539084	Soil		0.8	11.1	7.0	46	<0.1	15.4	5.9	132	1.71	9.9	0.5	1.8	3.9	10	<0.1	1.0	0.2	25	0.10	0.056
1539069	Soil		1.3	32.3	11.8	66	0.2	21.3	9.4	266	2.58	15.4	2.7	4.1	6.3	10	<0.1	1.4	0.2	43	0.08	0.030
1539098	Soil		0.8	22.8	14.6	44	0.1	12.3	4.9	107	2.08	8.2	1.4	5.5	7.4	14	<0.1	0.5	0.3	23	0.11	0.039
1539072	Soil		1.2	16.7	10.5	54	0.2	16.2	7.6	214	2.32	13.1	1.4	3.7	5.5	10	<0.1	0.9	0.2	44	0.08	0.021
1539083	Soil		0.9	26.7	11.7	63	<0.1	24.4	8.8	215	2.53	13.8	1.2	11.8	8.3	8	<0.1	1.7	0.2	22	0.06	0.030
1539080	Soil		0.7	25.5	9.0	41	0.2	16.0	5.6	148	1.75	10.2	1.4	3.0	4.7	14	<0.1	0.7	0.2	31	0.16	0.042
1545632	Soil		0.7	36.8	12.4	67	<0.1	55.3	14.2	353	3.15	8.8	1.2	1.5	9.2	10	0.1	0.7	0.2	45	0.07	0.049
1539090	Soil		0.5	16.9	6.8	46	<0.1	14.3	6.0	152	1.56	8.1	0.8	2.0	3.2	14	<0.1	0.6	0.1	26	0.16	0.052
1539075	Soil		0.9	18.6	9.5	49	0.2	15.3	5.8	173	2.06	12.0	1.3	3.3	5.6	10	<0.1	0.9	0.2	31	0.09	0.033
1539074	Soil		0.9	17.8	10.5	54	0.1	15.5	6.0	165	2.27	13.5	0.8	35.8	6.8	8	<0.1	1.1	0.2	25	0.05	0.024
1545652	Soil		0.7	19.2	9.6	61	<0.1	21.1	7.6	226	2.28	8.0	0.8	27.0	6.6	16	0.1	0.8	0.2	26	0.15	0.053
1539066	Soil		0.9	21.8	9.4	60	<0.1	19.9	8.2	219	2.22	9.8	1.0	2.9	6.4	10	0.1	0.9	0.2	27	0.08	0.033
1539091	Soil		0.6	14.6	5.8	34	0.1	11.2	3.6	78	1.29	7.5	0.8	2.2	1.0	14	<0.1	0.4	0.1	24	0.15	0.052
1539076	Soil		0.7	12.5	8.2	36	<0.1	12.2	5.4	146	1.81	11.1	0.6	2.8	3.3	8	<0.1	0.7	0.1	29	0.08	0.038
1545653	Soil		0.5	14.3	7.6	40	<0.1	13.7	6.9	279	1.73	5.7	1.0	1.3	4.2	14	<0.1	0.4	0.2	22	0.15	0.054
1545649	Soil		0.8	20.2	8.7	39	<0.1	13.8	6.9	243	1.84	11.0	0.9	1.9	1.8	10	<0.1	0.6	0.2	32	0.12	0.049
1539093	Soil		0.7	12.8	6.8	46	<0.1	12.9	6.4	160	1.76	9.2	0.6	28.4	3.6	11	<0.1	0.7	0.1	26	0.13	0.048
1539092	Soil		0.7	14.0	6.8	49	<0.1	14.7	5.2	120	1.63	8.4	0.6	7.8	3.6	13	<0.1	0.8	0.1	26	0.14	0.050
1545650	Soil		0.7	12.2	8.2	35	<0.1	10.5	6.5	232	1.85	11.0	0.7	3.5	1.3	10	<0.1	0.5	0.1	29	0.11	0.042
1539088	Soil		0.7	20.7	7.7	46	<0.1	17.2	6.4	161	1.78	10.0	0.9	2.6	2.9	14	<0.1	0.8	0.1	27	0.17	0.051
1539077	Soil		0.6	21.5	9.0	43	<0.1	14.4	6.3	158	1.86	10.1	0.9	18.5	6.0	9	<0.1	0.7	0.1	23	0.09	0.039
1539085	Soil		0.7	16.2	8.6	40	0.2	14.4	5.6	168	1.71	9.0	0.8	8.2	3.3	12	<0.1	0.8	0.2	33	0.14	0.039

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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
1539086	Soil	17	16	0.26	203	0.018	<1	0.85	0.003	0.03	0.2	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
1539087	Soil	18	15	0.27	135	0.013	<1	0.81	0.003	0.03	0.2	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1539082	Soil	30	16	0.36	157	0.010	<1	0.93	0.003	0.04	0.2	0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
1539099	Soil	33	16	0.38	148	0.008	<1	1.03	0.003	0.05	0.1	0.02	1.5	<0.1	<0.05	3	<0.5	<0.2
1539073	Soil	48	18	0.48	223	0.011	<1	1.22	0.004	0.05	0.2	0.03	2.4	<0.1	<0.05	3	<0.5	<0.2
1539070	Soil	41	18	0.55	144	0.009	<1	1.21	0.003	0.04	0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
1539089	Soil	13	12	0.24	179	0.011	1	0.73	0.003	0.03	0.2	0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
1539100	Soil	31	17	0.39	244	0.010	2	1.10	0.004	0.04	0.1	0.04	2.3	<0.1	<0.05	3	<0.5	<0.2
1539084	Soil	14	13	0.27	73	0.014	1	0.70	0.003	0.04	0.4	<0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
1539069	Soil	22	25	0.40	395	0.023	3	1.35	0.005	0.04	0.2	0.08	4.9	<0.1	<0.05	4	0.6	<0.2
1539098	Soil	33	16	0.37	211	0.007	<1	1.10	0.003	0.04	0.1	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
1539072	Soil	17	24	0.35	271	0.027	2	1.39	0.005	0.04	0.2	0.02	3.2	0.1	<0.05	4	0.5	<0.2
1539083	Soil	32	17	0.43	167	0.010	<1	1.03	0.004	0.04	0.1	0.03	2.2	<0.1	<0.05	3	<0.5	<0.2
1539080	Soil	17	18	0.33	333	0.021	1	0.96	0.005	0.04	0.2	0.03	2.7	<0.1	<0.05	3	<0.5	<0.2
1545632	Soil	31	80	1.05	166	0.012	<1	1.56	0.003	0.04	0.2	0.02	5.2	<0.1	<0.05	4	<0.5	<0.2
1539090	Soil	15	14	0.29	231	0.013	1	0.81	0.004	0.03	0.2	0.02	1.9	<0.1	<0.05	2	<0.5	<0.2
1539075	Soil	21	19	0.35	187	0.021	1	0.99	0.004	0.04	0.2	0.03	2.2	<0.1	<0.05	3	<0.5	<0.2
1539074	Soil	27	16	0.39	118	0.011	<1	1.05	0.003	0.04	0.2	0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
1545652	Soil	23	20	0.40	117	0.015	<1	0.89	0.003	0.04	0.2	0.05	1.7	<0.1	<0.05	3	<0.5	<0.2
1539066	Soil	20	17	0.34	127	0.014	1	0.99	0.003	0.04	0.2	0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
1539091	Soil	12	13	0.22	182	0.010	<1	0.70	0.003	0.03	0.2	0.03	1.3	<0.1	<0.05	2	<0.5	<0.2
1539076	Soil	14	15	0.25	152	0.018	1	0.81	0.003	0.03	0.2	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
1545653	Soil	20	15	0.30	172	0.008	<1	0.90	0.003	0.03	0.3	0.06	1.8	<0.1	<0.05	3	<0.5	<0.2
1545649	Soil	14	18	0.29	149	0.015	2	0.99	0.003	0.04	0.2	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
1539093	Soil	14	15	0.28	146	0.011	<1	0.82	0.004	0.04	0.2	0.03	1.6	<0.1	<0.05	2	<0.5	<0.2
1539092	Soil	15	14	0.28	172	0.016	1	0.73	0.003	0.04	0.3	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1545650	Soil	13	17	0.28	98	0.013	1	0.94	0.003	0.03	0.3	0.02	1.2	<0.1	<0.05	3	<0.5	<0.2
1539088	Soil	17	16	0.29	263	0.014	1	0.80	0.004	0.04	0.1	0.03	2.0	<0.1	0.06	3	<0.5	<0.2
1539077	Soil	21	14	0.31	189	0.015	<1	0.84	0.003	0.04	0.2	0.02	2.2	<0.1	<0.05	2	<0.5	<0.2
1539085	Soil	18	18	0.28	257	0.017	1	0.95	0.004	0.04	0.2	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2

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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
1545635	Soil	0.7	22.5	9.4	52	<0.1	26.2	11.6	473	2.12	11.8	1.1	1.6	6.3	8	0.1	0.8	0.2	25	0.07	0.048
1545648	Soil	0.6	13.3	7.2	37	<0.1	11.8	5.0	133	1.67	10.5	0.7	2.2	2.1	9	<0.1	0.6	0.1	25	0.12	0.046
1545633	Soil	0.8	45.2	16.0	76	<0.1	69.2	21.8	497	3.82	6.1	1.9	24.0	10.7	12	<0.1	0.7	0.3	44	0.05	0.047
1545627	Soil	0.9	20.0	13.7	59	0.2	24.4	10.2	248	2.36	5.3	1.7	1.6	4.6	17	<0.1	0.4	0.3	28	0.17	0.078
1545642	Soil	0.8	20.8	12.6	47	0.1	21.5	9.2	255	2.09	7.0	1.6	2.2	0.7	13	<0.1	0.4	0.2	24	0.11	0.054
1545651	Soil	0.6	10.0	6.3	31	<0.1	9.7	3.7	122	1.45	7.9	0.5	1.3	1.6	11	<0.1	0.4	0.1	22	0.12	0.041
1545630	Soil	0.6	19.3	7.6	43	<0.1	13.7	6.4	188	1.73	9.2	1.0	1.8	3.2	7	<0.1	0.6	0.1	28	0.07	0.042
1545626	Soil	1.0	30.9	10.7	60	<0.1	23.6	9.6	236	2.71	11.1	1.9	1.5	9.7	9	0.1	0.7	0.3	20	0.05	0.028
1545641	Soil	0.4	23.7	10.6	61	0.1	27.1	9.4	119	1.90	2.6	1.8	14.7	8.2	14	0.2	0.3	0.2	18	0.13	0.042
1545629	Soil	0.7	29.7	10.9	60	<0.1	34.8	11.9	409	2.56	9.5	1.2	1.3	7.1	8	0.2	0.9	0.2	33	0.07	0.046
1545631	Soil	0.7	22.5	10.0	52	<0.1	22.1	8.2	235	2.15	7.9	1.0	4.0	6.3	7	0.2	0.8	0.2	26	0.06	0.042
1545636	Soil	0.6	15.6	9.9	38	<0.1	11.0	5.3	141	1.83	6.6	1.0	0.6	4.9	8	<0.1	0.4	0.2	23	0.05	0.054
1545643	Soil	0.8	19.4	12.1	51	<0.1	16.8	7.0	166	2.09	8.3	1.5	2.6	5.9	8	<0.1	0.6	0.2	23	0.04	0.033
1545638	Soil	0.7	14.7	8.5	39	<0.1	11.4	5.2	190	1.67	10.1	1.1	2.8	3.0	10	<0.1	0.7	0.2	24	0.11	0.044
1545634	Soil	0.8	17.8	8.6	42	<0.1	12.1	5.9	195	1.93	10.4	1.4	11.0	4.3	6	0.1	0.7	0.1	28	0.05	0.037
1545628	Soil	0.7	29.8	13.0	65	<0.1	30.2	10.5	303	2.60	7.3	1.3	15.8	6.0	8	0.1	0.9	0.2	21	0.04	0.040
1545646	Soil	0.8	8.2	7.8	25	<0.1	6.3	2.3	94	1.59	8.9	0.6	1.5	0.4	5	<0.1	0.5	0.1	26	0.04	0.082
1545640	Soil	0.5	15.7	7.7	51	<0.1	16.1	6.1	159	1.70	4.2	1.4	1.7	7.4	14	<0.1	0.4	0.2	16	0.13	0.045
1545658	Soil	0.9	12.3	9.0	35	<0.1	10.1	4.9	176	1.78	12.8	0.8	2.6	4.5	5	<0.1	0.7	0.1	31	0.04	0.047
1545645	Soil	0.7	32.4	11.4	57	<0.1	54.6	18.9	647	2.97	9.5	0.7	2.7	4.1	9	<0.1	0.5	0.1	50	0.09	0.077
1515909	Soil	0.8	20.6	10.4	57	0.2	16.0	8.4	226	1.94	9.9	1.4	1.4	4.9	14	0.2	1.4	0.2	23	0.11	0.046
1545657	Soil	1.2	10.4	11.8	40	<0.1	11.5	10.4	680	2.48	15.4	0.6	6.9	4.3	7	0.1	0.8	0.2	36	0.06	0.089
1545654	Soil	0.6	18.4	10.4	43	<0.1	13.3	5.5	147	1.83	6.9	1.6	1.0	3.5	13	<0.1	0.4	0.2	19	0.13	0.047
1545639	Soil	0.6	12.2	7.1	38	<0.1	12.8	6.4	240	1.64	6.2	0.8	2.2	3.0	10	<0.1	0.4	0.1	22	0.09	0.041
1515910	Soil	0.8	22.5	8.1	56	<0.1	18.2	6.4	296	1.54	10.2	0.9	<0.5	5.8	16	0.2	1.2	0.1	18	0.16	0.052
1545659	Soil	0.9	10.6	9.3	42	<0.1	12.1	8.9	420	2.22	15.3	0.6	<0.5	4.8	9	<0.1	0.8	0.1	26	0.08	0.076
1545656	Soil	0.7	20.7	10.3	60	<0.1	19.0	9.3	336	1.77	15.6	0.9	2.8	5.9	12	0.2	1.0	0.1	21	0.12	0.059
1545644	Soil	0.8	17.3	9.1	39	<0.1	16.2	8.2	294	1.91	10.2	1.5	0.7	5.1	8	0.1	0.7	0.2	28	0.06	0.033
1515774	Soil	0.8	17.0	11.7	46	0.1	14.1	6.1	158	2.13	11.2	0.6	14.1	5.3	9	<0.1	0.9	0.2	31	0.06	0.037
1545637	Soil	0.6	16.8	8.5	41	<0.1	14.0	6.4	205	1.66	13.2	0.7	1.7	3.9	10	<0.1	0.7	0.1	22	0.11	0.045

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Project: MCQ
Report Date: September 07, 2017

CERTIFICATE OF ANALYSIS WHI17000675.1

	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
1545635	Soil	20	23	0.34	88	0.015	<1	0.87	0.002	0.03	0.2	0.02	2.4	<0.1	<0.05	2	<0.5	<0.2
1545648	Soil	13	15	0.27	110	0.014	1	0.80	0.003	0.03	0.3	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1545633	Soil	43	91	1.14	258	0.007	<1	1.65	0.003	0.03	<0.1	0.02	5.2	<0.1	<0.05	5	<0.5	<0.2
1545627	Soil	29	32	0.54	235	0.004	1	1.48	0.004	0.04	0.1	0.05	2.4	0.1	<0.05	4	<0.5	<0.2
1545642	Soil	24	17	0.28	102	0.006	<1	0.91	0.003	0.04	0.2	0.05	1.0	<0.1	<0.05	3	<0.5	<0.2
1545651	Soil	13	12	0.23	86	0.011	<1	0.64	0.002	0.03	0.2	0.02	1.0	<0.1	<0.05	2	<0.5	<0.2
1545630	Soil	16	19	0.30	109	0.019	<1	0.94	0.003	0.03	0.2	0.04	2.3	<0.1	<0.05	2	<0.5	<0.2
1545626	Soil	33	20	0.44	118	0.011	<1	0.98	0.002	0.03	0.2	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
1545641	Soil	31	16	0.34	112	0.005	<1	0.89	0.002	0.03	<0.1	0.02	1.9	<0.1	<0.05	2	<0.5	<0.2
1545629	Soil	27	44	0.57	109	0.020	<1	1.09	0.003	0.04	0.3	0.03	3.6	<0.1	<0.05	3	<0.5	<0.2
1545631	Soil	22	29	0.46	96	0.016	<1	1.01	0.002	0.04	0.2	0.03	2.3	<0.1	<0.05	3	<0.5	<0.2
1545636	Soil	22	16	0.31	90	0.013	<1	0.91	0.002	0.03	0.2	0.02	1.6	<0.1	<0.05	3	<0.5	<0.2
1545643	Soil	24	14	0.22	100	0.015	3	0.85	0.002	0.03	0.2	0.03	1.7	<0.1	<0.05	3	<0.5	<0.2
1545638	Soil	16	13	0.27	142	0.014	2	0.82	0.002	0.03	0.3	0.04	1.5	<0.1	<0.05	3	0.6	<0.2
1545634	Soil	15	17	0.26	98	0.020	3	1.04	0.002	0.03	0.2	0.04	1.7	<0.1	<0.05	3	<0.5	<0.2
1545628	Soil	30	32	0.49	95	0.013	1	1.06	0.002	0.05	0.2	0.04	1.9	<0.1	<0.05	3	<0.5	<0.2
1545646	Soil	13	14	0.20	46	0.011	2	0.73	0.002	0.02	0.2	0.03	0.6	<0.1	<0.05	3	<0.5	<0.2
1545640	Soil	24	13	0.34	124	0.008	2	0.79	0.002	0.03	0.2	0.02	1.3	<0.1	<0.05	2	<0.5	<0.2
1545658	Soil	14	16	0.28	72	0.023	2	0.94	0.003	0.03	0.3	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
1545645	Soil	15	89	1.07	73	0.016	1	1.55	0.002	0.02	0.2	0.02	5.1	<0.1	<0.05	5	<0.5	<0.2
1515909	Soil	21	13	0.25	252	0.009	2	0.82	0.003	0.05	0.2	0.04	2.1	<0.1	<0.05	3	<0.5	<0.2
1545657	Soil	13	17	0.25	46	0.026	1	0.85	0.002	0.03	0.3	0.01	1.3	<0.1	<0.05	3	0.6	<0.2
1545654	Soil	24	13	0.34	114	0.007	1	0.83	0.002	0.02	0.1	0.02	1.2	<0.1	<0.05	3	<0.5	<0.2
1545639	Soil	17	15	0.26	130	0.010	<1	0.81	0.002	0.02	0.3	0.03	1.3	<0.1	<0.05	2	<0.5	<0.2
1515910	Soil	15	11	0.24	205	0.014	1	0.52	0.003	0.05	0.2	0.03	1.8	<0.1	<0.05	2	<0.5	<0.2
1545659	Soil	14	16	0.27	64	0.024	3	0.85	0.003	0.03	0.3	<0.01	1.3	<0.1	<0.05	2	<0.5	<0.2
1545656	Soil	17	12	0.26	59	0.019	1	0.79	0.002	0.04	0.4	0.03	1.5	<0.1	<0.05	2	<0.5	<0.2
1545644	Soil	18	17	0.31	112	0.025	2	0.99	0.003	0.03	0.2	0.03	2.3	<0.1	<0.05	3	<0.5	<0.2
1515774	Soil	16	17	0.25	152	0.012	1	0.97	0.003	0.04	0.2	0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
1545637	Soil	14	12	0.23	96	0.015	1	0.62	0.002	0.03	0.3	0.01	1.3	<0.1	<0.05	2	<0.5	<0.2

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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
1545655	Soil	0.4	34.9	15.2	73	<0.1	21.9	9.2	168	3.14	1.1	2.6	<0.5	18.2	15	<0.1	0.2	0.3	10	0.06	0.030
1545647	Soil	0.8	17.5	11.7	49	<0.1	11.6	8.4	280	2.04	8.6	1.3	1.5	5.1	8	<0.1	0.6	0.2	23	0.05	0.059
1548510	Soil	0.7	13.7	8.7	34	<0.1	10.6	3.9	111	1.78	9.5	0.7	<0.5	3.7	8	<0.1	0.6	0.1	31	0.06	0.031
1548514	Soil	1.1	18.4	11.1	44	<0.1	12.2	4.5	140	2.31	13.1	0.7	2.4	8.7	9	<0.1	0.9	0.2	28	0.04	0.033
1548508	Soil	0.7	28.3	11.0	53	<0.1	22.9	8.7	214	2.37	12.2	1.0	2.3	7.0	8	<0.1	2.2	0.2	24	0.05	0.022
1548501	Soil	0.8	13.9	8.7	42	<0.1	15.7	6.0	145	2.07	10.0	0.5	61.0	5.1	9	<0.1	1.1	0.2	24	0.07	0.030
1548505	Soil	0.5	24.0	6.9	46	<0.1	17.4	8.1	331	1.61	8.7	0.5	1.9	4.3	10	0.2	0.8	<0.1	17	0.10	0.047
1548512	Soil	0.7	19.8	8.6	46	<0.1	15.7	6.2	156	1.77	11.8	0.7	33.8	4.8	8	<0.1	0.9	0.1	22	0.06	0.031
1515906	Soil	0.8	19.0	8.5	58	<0.1	24.2	8.2	239	1.66	9.4	0.7	<0.5	5.5	13	0.2	1.0	0.1	23	0.12	0.061
1548509	Soil	1.2	35.9	17.2	63	<0.1	25.1	10.2	196	3.30	21.2	1.4	21.5	11.0	12	0.1	1.5	0.3	22	0.04	0.041
1548511	Soil	0.8	24.7	10.5	47	<0.1	18.2	6.3	165	1.99	12.4	1.2	62.1	5.3	12	<0.1	1.1	0.2	24	0.10	0.039
1515908	Soil	0.7	23.4	10.5	62	0.1	19.6	8.8	286	2.14	9.8	1.3	2.3	6.9	16	0.2	1.0	0.2	23	0.18	0.062
1548506	Soil	0.4	14.4	6.5	17	<0.1	5.1	2.6	135	0.80	4.5	0.4	1.1	1.4	5	0.1	0.5	<0.1	15	0.04	0.027
1515914	Soil	0.8	18.6	10.3	47	0.2	16.2	6.3	158	2.02	11.4	1.1	125.4	9.4	8	<0.1	0.9	0.2	22	0.05	0.022
1548504	Soil	0.9	17.0	16.2	52	0.1	17.4	8.0	212	1.90	64.2	0.9	4.2	3.9	13	0.1	1.4	0.3	24	0.13	0.046
1515907	Soil	0.7	37.1	15.8	67	<0.1	34.2	13.0	332	2.96	19.6	1.3	7.0	9.5	13	<0.1	6.0	0.3	19	0.13	0.029
1548507	Soil	1.2	27.5	13.2	62	<0.1	22.9	9.2	228	2.52	17.4	2.0	33.1	8.0	13	<0.1	2.5	0.2	39	0.09	0.015
1515921	Soil	0.8	30.1	12.1	56	<0.1	23.0	10.1	269	2.65	12.9	1.5	3.3	11.2	7	<0.1	3.0	0.3	19	0.04	0.037
1515918	Soil	0.9	33.0	10.9	53	<0.1	23.1	8.9	259	2.52	16.5	1.3	6.3	6.9	7	<0.1	2.4	0.3	19	0.05	0.031
1515919	Soil	0.8	22.3	9.8	49	<0.1	18.5	7.3	223	2.19	14.8	0.9	54.3	5.5	7	<0.1	1.8	0.2	25	0.05	0.027
1548503	Soil	0.4	25.5	8.8	28	0.2	16.3	5.6	292	1.35	3.3	4.4	0.7	1.9	216	0.3	0.5	0.2	13	2.91	0.047
1548502	Soil	0.8	30.5	14.0	62	0.1	29.1	10.4	256	3.27	11.2	0.6	113.2	9.3	15	<0.1	0.9	0.4	31	0.12	0.022
1515915	Soil	0.9	25.4	11.3	67	0.2	16.8	6.5	166	3.11	13.7	1.1	1.8	11.5	9	<0.1	0.9	0.3	21	0.03	0.024
1515916	Soil	0.8	21.0	10.2	59	<0.1	18.1	8.4	231	2.35	12.9	0.9	2.1	6.2	6	0.2	1.3	0.2	19	0.03	0.029
1515911	Soil	0.7	20.3	6.8	56	<0.1	19.8	6.4	260	1.69	8.6	0.7	1.3	3.9	14	0.3	0.8	0.1	20	0.14	0.060
1548513	Soil	0.7	25.0	9.9	46	<0.1	16.9	7.8	201	2.23	12.4	0.9	2.6	6.1	8	<0.1	1.0	0.2	24	0.08	0.032
1515923	Soil	0.4	39.2	15.7	82	<0.1	35.4	16.7	436	3.77	4.5	0.7	2.1	15.2	16	<0.1	1.1	0.2	21	0.16	0.027
1515913	Soil	1.0	20.1	10.5	52	0.2	22.5	8.4	184	2.40	16.9	0.9	2.9	5.8	8	<0.1	1.8	0.2	30	0.06	0.031
1515917	Soil	0.8	26.2	11.3	55	0.2	27.1	10.4	237	2.51	20.0	1.2	8.3	7.5	9	<0.1	3.7	0.2	28	0.06	0.020
1515775	Soil	0.8	15.1	10.3	41	0.1	13.1	6.1	181	2.09	11.3	0.5	15.2	4.1	7	<0.1	0.7	0.2	33	0.06	0.039

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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
1545655	Soil		52	16	0.69	206	0.002	<1	1.28	0.002	0.03	<0.1	0.01	1.1	<0.1	<0.05	3	<0.5	<0.2
1545647	Soil		24	16	0.32	70	0.016	1	0.94	0.002	0.03	0.2	0.02	1.3	<0.1	<0.05	3	<0.5	<0.2
1548510	Soil		14	14	0.19	137	0.016	<1	0.80	0.003	0.03	0.2	0.02	1.3	<0.1	<0.05	3	<0.5	<0.2
1548514	Soil		27	14	0.27	100	0.012	2	0.88	0.003	0.05	0.2	0.01	1.3	<0.1	<0.05	3	<0.5	<0.2
1548508	Soil		25	16	0.29	191	0.013	<1	0.87	0.002	0.04	0.1	0.04	2.1	<0.1	<0.05	3	<0.5	<0.2
1548501	Soil		18	14	0.25	148	0.010	1	0.83	0.002	0.04	0.1	<0.01	1.1	<0.1	<0.05	3	<0.5	<0.2
1548505	Soil		13	10	0.22	86	0.015	1	0.51	0.003	0.03	0.1	0.03	1.4	<0.1	<0.05	1	<0.5	<0.2
1548512	Soil		14	13	0.24	113	0.013	1	0.74	0.002	0.03	0.3	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1515906	Soil		13	13	0.27	111	0.012	2	0.70	0.003	0.05	<0.1	0.03	1.6	<0.1	<0.05	2	<0.5	<0.2
1548509	Soil		36	16	0.37	108	0.007	1	1.12	0.004	0.05	0.1	0.03	1.3	<0.1	<0.05	3	<0.5	<0.2
1548511	Soil		20	14	0.27	168	0.013	2	0.81	0.003	0.04	0.3	0.03	1.8	<0.1	<0.05	3	<0.5	<0.2
1515908	Soil		27	16	0.33	191	0.020	2	0.86	0.005	0.05	0.4	0.04	1.9	<0.1	<0.05	3	<0.5	<0.2
1548506	Soil		13	6	0.06	90	0.011	<1	0.39	0.002	0.03	0.2	<0.01	0.5	<0.1	<0.05	2	<0.5	<0.2
1515914	Soil		31	15	0.36	151	0.011	<1	0.97	0.002	0.04	0.2	0.02	1.4	<0.1	<0.05	3	<0.5	<0.2
1548504	Soil		20	14	0.26	209	0.009	<1	0.82	0.003	0.06	0.3	0.03	1.6	<0.1	<0.05	3	<0.5	<0.2
1515907	Soil		29	16	0.27	90	0.008	<1	0.75	0.003	0.09	0.2	0.12	2.1	<0.1	<0.05	3	<0.5	<0.2
1548507	Soil		22	24	0.33	291	0.035	<1	1.17	0.005	0.06	0.3	0.04	5.1	<0.1	<0.05	4	<0.5	<0.2
1515921	Soil		37	20	0.38	131	0.009	<1	0.93	0.003	0.06	<0.1	0.07	2.1	<0.1	<0.05	3	<0.5	<0.2
1515918	Soil		25	13	0.29	168	0.010	1	0.71	0.002	0.04	0.1	0.02	2.2	<0.1	<0.05	2	<0.5	<0.2
1515919	Soil		20	16	0.29	154	0.017	<1	0.82	0.003	0.03	0.2	0.04	2.4	<0.1	<0.05	3	<0.5	<0.2
1548503	Soil		9	11	0.27	144	0.005	5	0.66	0.004	0.05	0.1	0.05	1.3	<0.1	0.14	2	1.1	<0.2
1548502	Soil		30	21	0.59	133	0.008	<1	1.45	0.002	0.05	0.4	0.03	1.8	<0.1	<0.05	5	<0.5	<0.2
1515915	Soil		40	18	0.53	118	0.005	1	1.33	0.002	0.04	0.1	0.01	1.6	0.1	<0.05	4	<0.5	<0.2
1515916	Soil		25	13	0.30	106	0.007	<1	0.89	0.002	0.04	0.1	0.01	1.3	<0.1	<0.05	3	<0.5	<0.2
1515911	Soil		14	11	0.26	150	0.010	<1	0.57	0.003	0.04	0.1	<0.01	1.9	<0.1	<0.05	2	<0.5	<0.2
1548513	Soil		17	16	0.30	177	0.011	<1	0.91	0.003	0.03	0.2	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
1515923	Soil		58	23	0.83	213	0.003	<1	1.87	0.003	0.06	<0.1	0.04	2.6	0.1	<0.05	5	<0.5	<0.2
1515913	Soil		15	19	0.31	135	0.015	1	1.08	0.004	0.04	0.2	0.03	2.0	<0.1	<0.05	3	<0.5	<0.2
1515917	Soil		22	18	0.31	234	0.015	<1	1.10	0.003	0.05	0.3	0.05	2.6	<0.1	<0.05	3	<0.5	<0.2
1515775	Soil		14	16	0.25	175	0.011	1	0.97	0.004	0.04	0.2	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2

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Project: MCQ
Report Date: September 07, 2017

CERTIFICATE OF ANALYSIS WHI17000675.1

	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
1546162	Soil	0.7	13.5	9.3	51	<0.1	13.9	6.7	230	2.13	12.4	0.6	7.2	4.5	6	0.1	0.8	0.2	29	0.06	0.037
1515912	Soil	0.7	17.8	7.2	46	<0.1	18.1	7.6	208	1.75	10.9	1.1	0.9	4.3	10	<0.1	0.8	0.1	24	0.10	0.044
1515922	Soil	0.3	53.4	13.5	93	<0.1	44.6	18.7	438	4.21	6.4	0.8	2.0	17.2	18	<0.1	1.0	0.3	19	0.15	0.036
1515920	Soil	0.9	44.5	18.2	58	0.2	33.8	12.8	245	3.39	36.5	1.2	6.3	6.8	6	0.2	4.5	0.5	15	0.02	0.043
1546161	Soil	0.6	24.6	8.4	51	<0.1	17.1	8.2	350	1.83	13.4	0.9	1.8	3.8	8	<0.1	0.8	0.1	20	0.10	0.055
1546159	Soil	0.9	28.3	12.6	70	<0.1	25.7	9.3	212	2.91	12.2	1.4	7.2	5.9	11	<0.1	0.9	0.2	16	0.06	0.041
1546158	Soil	0.7	23.6	8.5	50	<0.1	18.6	7.3	254	1.97	10.7	1.0	77.3	5.2	9	0.2	0.9	0.2	21	0.09	0.056
1546160	Soil	0.6	18.3	7.6	45	<0.1	14.6	6.8	221	1.73	11.5	0.8	1.0	3.3	7	<0.1	0.7	0.1	22	0.08	0.053
1548145	Soil	0.7	10.2	7.2	40	<0.1	9.0	4.6	165	1.71	9.4	0.9	0.5	1.3	6	<0.1	0.6	0.1	28	0.05	0.040
1546157	Soil	0.9	17.5	9.3	46	<0.1	13.7	6.3	204	2.09	12.5	0.9	1.9	3.5	7	<0.1	0.8	0.2	30	0.07	0.045
1546153	Soil	0.7	14.7	8.6	40	<0.1	11.6	5.4	180	1.92	11.7	0.9	30.3	2.7	7	0.1	0.7	0.1	25	0.08	0.051
1546155	Soil	0.7	11.9	7.9	36	<0.1	10.1	4.2	124	1.74	11.6	0.7	1.5	1.4	6	<0.1	0.6	0.1	24	0.06	0.054
1548144	Soil	0.7	18.8	8.4	44	<0.1	13.2	7.4	251	1.93	11.7	1.3	2.0	3.7	7	<0.1	0.8	0.1	31	0.05	0.041
1548151	Soil	0.6	6.4	8.4	31	<0.1	8.8	3.6	139	1.73	12.6	0.4	0.6	2.2	6	<0.1	0.7	0.2	22	0.06	0.047
1546151	Soil	0.7	12.8	9.8	37	<0.1	11.8	4.5	120	1.85	9.8	0.8	11.7	0.4	7	<0.1	0.5	0.2	24	0.07	0.050
1546152	Soil	0.8	12.9	9.4	30	<0.1	9.5	3.8	128	1.61	9.4	0.6	20.0	0.4	6	<0.1	0.5	0.2	22	0.05	0.063
1548147	Soil	0.9	16.3	8.3	48	<0.1	12.4	6.4	218	2.01	10.8	1.0	1.0	3.8	6	<0.1	0.8	0.1	33	0.05	0.035
1548146	Soil	0.6	7.2	7.0	33	<0.1	7.6	2.7	74	1.64	8.5	0.5	0.9	0.7	6	<0.1	0.5	0.1	27	0.05	0.034
1546154	Soil	0.9	15.4	9.3	39	<0.1	11.1	5.2	191	2.01	11.0	0.8	1.1	2.6	6	<0.1	0.6	0.2	25	0.05	0.054
1546156	Soil	0.7	23.8	9.2	53	<0.1	18.4	8.6	270	2.01	13.3	1.1	2.2	4.7	9	<0.1	0.8	0.2	20	0.08	0.051

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CERTIFICATE OF ANALYSIS WHI17000675.1

		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
1546162	Soil		12	18	0.29	73	0.021	<1	1.10	0.003	0.03	0.3	0.03	1.9	<0.1	<0.05	3	<0.5	<0.2
1515912	Soil		15	14	0.27	122	0.016	1	0.74	0.003	0.03	0.2	0.01	2.1	<0.1	<0.05	2	<0.5	<0.2
1515922	Soil		58	26	0.97	111	0.003	<1	2.00	0.002	0.06	<0.1	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2
1515920	Soil		24	14	0.22	81	0.006	<1	0.62	0.002	0.04	<0.1	0.07	1.9	<0.1	<0.05	2	<0.5	<0.2
1546161	Soil		14	13	0.28	103	0.016	1	0.69	0.003	0.03	0.2	0.03	2.2	<0.1	<0.05	2	<0.5	<0.2
1546159	Soil		28	11	0.18	184	0.008	<1	0.62	0.003	0.04	0.1	0.06	1.9	<0.1	<0.05	2	<0.5	<0.2
1546158	Soil		22	14	0.28	94	0.015	1	0.69	0.002	0.03	0.5	0.03	2.0	<0.1	<0.05	2	<0.5	<0.2
1546160	Soil		15	13	0.26	89	0.016	1	0.71	0.002	0.03	0.3	0.03	2.1	<0.1	<0.05	2	<0.5	<0.2
1548145	Soil		11	16	0.27	104	0.016	<1	0.95	0.003	0.02	0.2	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
1546157	Soil		15	18	0.29	121	0.018	<1	1.06	0.003	0.03	0.4	0.03	2.2	<0.1	<0.05	3	0.6	<0.2
1546153	Soil		15	16	0.27	95	0.016	1	0.89	0.004	0.03	0.3	0.03	2.0	<0.1	<0.05	3	<0.5	<0.2
1546155	Soil		12	14	0.25	82	0.013	<1	0.78	0.002	0.03	0.2	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1548144	Soil		14	20	0.32	162	0.024	1	1.12	0.004	0.03	0.2	0.03	3.2	<0.1	<0.05	3	<0.5	<0.2
1548151	Soil		10	12	0.21	27	0.017	<1	0.57	0.002	0.03	0.2	0.02	1.1	<0.1	<0.05	2	<0.5	<0.2
1546151	Soil		14	15	0.26	94	0.008	<1	0.86	0.003	0.03	0.4	0.02	0.8	<0.1	<0.05	3	<0.5	<0.2
1546152	Soil		13	13	0.20	74	0.008	<1	0.68	0.002	0.03	0.4	0.02	0.7	<0.1	<0.05	3	<0.5	<0.2
1548147	Soil		13	19	0.31	120	0.026	1	1.14	0.004	0.03	0.2	0.02	2.6	<0.1	<0.05	3	0.6	<0.2
1548146	Soil		9	14	0.22	57	0.017	<1	0.80	0.002	0.02	0.2	0.02	1.1	<0.1	<0.05	3	<0.5	<0.2
1546154	Soil		16	15	0.27	60	0.014	1	0.87	0.003	0.03	0.3	0.02	1.4	<0.1	<0.05	3	0.5	<0.2
1546156	Soil		17	15	0.29	214	0.013	<1	0.77	0.003	0.03	0.2	0.02	2.0	<0.1	<0.05	2	<0.5	<0.2

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Project: MCQ
Report Date: September 07, 2017

QUALITY CONTROL REPORT WHI17000675.1

		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
Pulp Duplicates																						
1548543	Soil		0.6	8.3	6.7	30	<0.1	8.7	3.3	94	1.23	8.7	0.5	6.9	0.6	6	<0.1	0.6	0.1	22	0.05	0.043
REP 1548543	QC		0.6	8.3	7.0	31	<0.1	8.8	3.4	102	1.27	8.8	0.5	0.5	0.8	6	<0.1	0.5	0.1	22	0.05	0.047
1539141	Soil		0.7	15.6	8.1	48	<0.1	16.1	10.8	492	2.04	15.8	0.5	0.5	4.3	9	0.2	0.8	0.1	22	0.11	0.072
REP 1539141	QC		0.7	14.9	8.3	50	<0.1	15.9	11.0	488	2.02	16.3	0.5	3.1	4.2	9	0.2	0.8	0.1	23	0.11	0.075
1546111	Soil		0.9	23.4	13.7	61	<0.1	18.8	7.9	225	2.10	8.2	1.2	3.0	9.2	10	0.1	1.2	0.2	19	0.09	0.054
REP 1546111	QC		0.9	24.5	13.8	62	<0.1	19.7	8.1	240	2.18	7.7	1.2	15.5	9.2	10	0.2	1.2	0.2	19	0.09	0.055
1546172	Soil		0.7	20.1	9.0	45	<0.1	14.7	6.6	201	1.68	12.9	0.9	2.4	2.9	9	<0.1	0.7	0.2	26	0.09	0.052
REP 1546172	QC		0.7	19.4	8.7	43	<0.1	14.4	6.5	195	1.65	12.3	0.8	10.4	2.9	9	<0.1	0.8	0.2	24	0.09	0.049
1547827	Soil		0.6	19.1	11.1	47	<0.1	15.1	6.0	135	1.93	9.0	1.2	2.1	3.9	8	<0.1	1.7	0.2	27	0.07	0.050
REP 1547827	QC		0.7	20.2	11.6	51	<0.1	15.9	6.2	140	2.02	9.5	1.2	2.1	4.3	8	0.1	1.8	0.2	26	0.08	0.051
1539082	Soil		0.9	23.7	11.3	60	<0.1	19.3	8.1	198	2.09	11.5	1.1	11.4	5.1	9	0.2	1.2	0.2	24	0.07	0.034
REP 1539082	QC		0.8	25.6	11.5	61	<0.1	19.9	8.2	201	2.11	11.4	1.1	5.4	5.0	9	0.2	1.1	0.2	24	0.07	0.035
1545641	Soil		0.4	23.7	10.6	61	0.1	27.1	9.4	119	1.90	2.6	1.8	14.7	8.2	14	0.2	0.3	0.2	18	0.13	0.042
REP 1545641	QC		0.5	23.3	10.9	61	0.1	27.4	9.5	121	1.91	2.9	1.9	<0.5	8.5	14	0.2	0.3	0.2	18	0.14	0.044
1548504	Soil		0.9	17.0	16.2	52	0.1	17.4	8.0	212	1.90	64.2	0.9	4.2	3.9	13	0.1	1.4	0.3	24	0.13	0.046
REP 1548504	QC		0.9	15.9	15.7	48	0.1	17.8	8.1	230	2.01	58.5	0.8	4.7	3.5	13	0.1	1.3	0.2	25	0.12	0.047
1548146	Soil		0.6	7.2	7.0	33	<0.1	7.6	2.7	74	1.64	8.5	0.5	0.9	0.7	6	<0.1	0.5	0.1	27	0.05	0.034
REP 1548146	QC		0.6	6.9	6.8	32	<0.1	7.6	2.7	74	1.61	8.8	0.5	<0.5	0.7	6	<0.1	0.5	0.1	26	0.05	0.032
Reference Materials																						
STD DS11	Standard		14.7	161.2	137.0	346	1.7	79.8	13.8	1013	3.10	46.1	3.1	72.1	9.0	67	2.6	10.4	14.7	52	1.04	0.075
STD DS11	Standard		14.2	146.1	136.7	349	1.7	75.9	13.7	1048	3.10	44.9	2.6	79.2	7.4	63	2.5	9.0	11.6	52	1.02	0.068
STD DS11	Standard		13.8	154.4	139.0	350	1.7	79.1	14.2	1051	3.27	43.7	2.5	63.2	7.4	63	2.3	9.6	12.3	51	1.05	0.075
STD DS11	Standard		14.4	147.0	138.3	338	1.7	77.7	13.5	1018	3.19	43.5	2.6	64.5	7.5	67	2.2	8.8	12.1	51	1.06	0.073
STD DS11	Standard		14.2	161.7	148.2	356	1.6	77.7	13.8	1004	3.04	44.9	2.9	71.1	8.7	69	2.7	10.0	14.1	52	1.00	0.074
STD DS11	Standard		14.6	153.6	142.7	363	1.9	82.2	13.5	1073	3.14	43.0	2.8	85.9	8.8	79	2.8	10.5	15.0	50	1.03	0.060
STD DS11	Standard		14.0	147.9	139.3	342	1.8	78.2	14.0	1028	3.16	44.1	2.6	78.8	7.5	64	2.4	9.2	12.6	50	1.06	0.071
STD DS11	Standard		12.9	158.9	146.0	343	1.6	77.2	13.9	975	2.96	43.9	2.9	74.2	8.4	67	2.5	9.6	13.6	49	0.94	0.069
STD DS11	Standard		14.2	167.8	153.3	365	1.8	82.0	15.3	1039	3.24	46.1	3.0	70.4	8.8	69	2.6	10.4	14.5	55	0.98	0.076

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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																			
1548543	Soil		13	10	0.19	52	0.010	1	0.46	0.002	0.02	0.3	0.01	0.6	<0.1	<0.05	2	<0.5	<0.2
REP 1548543	QC		13	10	0.19	51	0.010	<1	0.46	0.002	0.02	0.3	0.01	0.5	<0.1	<0.05	2	<0.5	<0.2
1539141	Soil		12	15	0.28	64	0.015	<1	0.81	0.002	0.03	0.3	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
REP 1539141	QC		13	15	0.28	64	0.016	<1	0.81	0.002	0.03	0.2	0.01	1.6	<0.1	<0.05	2	<0.5	<0.2
1546111	Soil		27	13	0.30	81	0.010	<1	0.71	0.002	0.03	0.3	0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
REP 1546111	QC		28	13	0.32	82	0.010	<1	0.74	0.002	0.03	0.3	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1546172	Soil		17	15	0.25	121	0.017	1	0.75	0.003	0.03	0.4	0.03	1.7	<0.1	<0.05	2	<0.5	<0.2
REP 1546172	QC		17	15	0.25	120	0.017	1	0.73	0.004	0.03	0.3	0.02	1.7	<0.1	<0.05	2	<0.5	<0.2
1547827	Soil		22	20	0.33	127	0.012	<1	0.91	0.003	0.03	0.2	0.04	1.8	<0.1	<0.05	2	<0.5	<0.2
REP 1547827	QC		23	20	0.32	131	0.011	<1	0.90	0.002	0.03	0.3	0.03	1.8	<0.1	<0.05	3	<0.5	<0.2
1539082	Soil		30	16	0.36	157	0.010	<1	0.93	0.003	0.04	0.2	0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
REP 1539082	QC		30	17	0.37	161	0.010	1	0.96	0.003	0.04	0.2	0.02	1.4	<0.1	<0.05	3	<0.5	<0.2
1545641	Soil		31	16	0.34	112	0.005	<1	0.89	0.002	0.03	<0.1	0.02	1.9	<0.1	<0.05	2	<0.5	<0.2
REP 1545641	QC		32	16	0.36	116	0.005	<1	0.93	0.002	0.03	<0.1	0.02	2.0	<0.1	<0.05	2	<0.5	<0.2
1548504	Soil		20	14	0.26	209	0.009	<1	0.82	0.003	0.06	0.3	0.03	1.6	<0.1	<0.05	3	<0.5	<0.2
REP 1548504	QC		21	15	0.26	216	0.008	<1	0.85	0.003	0.05	0.2	0.03	1.4	<0.1	<0.05	2	<0.5	<0.2
1548146	Soil		9	14	0.22	57	0.017	<1	0.80	0.002	0.02	0.2	0.02	1.1	<0.1	<0.05	3	<0.5	<0.2
REP 1548146	QC		9	14	0.22	57	0.017	1	0.78	0.002	0.02	0.2	0.02	1.1	<0.1	<0.05	3	<0.5	<0.2
Reference Materials																			
STD DS11	Standard		22	61	0.82	362	0.101	8	1.13	0.068	0.39	3.0	0.26	3.2	4.9	0.27	5	2.3	4.5
STD DS11	Standard		18	60	0.85	374	0.089	7	1.09	0.070	0.38	2.9	0.27	3.3	4.8	0.27	5	2.4	4.9
STD DS11	Standard		18	60	0.84	384	0.090	8	1.12	0.066	0.41	3.3	0.26	3.4	5.0	0.35	5	2.2	4.8
STD DS11	Standard		20	59	0.85	376	0.094	8	1.18	0.075	0.41	3.1	0.26	3.5	5.1	0.32	5	2.0	4.7
STD DS11	Standard		20	59	0.80	365	0.095	8	1.05	0.067	0.35	3.0	0.23	3.1	4.8	0.26	5	2.1	4.4
STD DS11	Standard		22	60	0.77	378	0.096	6	1.11	0.067	0.43	3.2	0.26	3.4	5.5	0.30	5	3.0	4.6
STD DS11	Standard		18	58	0.88	373	0.088	6	1.16	0.072	0.38	2.9	0.25	3.3	4.9	0.27	5	2.4	4.8
STD DS11	Standard		20	58	0.76	364	0.092	6	1.01	0.062	0.35	2.9	0.25	2.9	4.7	0.18	5	2.3	4.4
STD DS11	Standard		21	62	0.87	360	0.099	7	1.16	0.072	0.39	3.4	0.27	3.1	4.9	0.32	5	2.1	5.0

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Box 213
Dawson City Yukon Y0B 1G0 Canada

Project: MCQ
Report Date: September 07, 2017

QUALITY CONTROL REPORT WHI17000675.1

		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
STD DS11	Standard	12.8	137.8	131.8	321	1.7	73.5	12.8	974	3.02	42.2	2.6	80.6	7.7	69	2.3	9.1	11.7	47	1.00	0.066
STD OXC129	Standard	1.3	31.1	6.9	43	<0.1	80.1	21.8	414	3.12	0.7	0.8	200.4	2.2	194	<0.1	<0.1	<0.1	57	0.73	0.110
STD OXC129	Standard	1.3	27.8	6.5	44	<0.1	78.4	20.8	420	3.07	0.7	0.7	197.1	1.9	190	<0.1	<0.1	<0.1	59	0.66	0.101
STD OXC129	Standard	1.3	28.2	6.4	44	<0.1	80.2	21.3	441	3.22	1.0	0.7	194.0	1.9	181	<0.1	<0.1	<0.1	56	0.69	0.107
STD OXC129	Standard	1.1	27.0	6.2	42	<0.1	75.2	19.3	403	3.02	0.6	0.7	191.5	1.7	184	<0.1	<0.1	0.1	52	0.67	0.104
STD OXC129	Standard	1.3	30.9	7.3	45	<0.1	87.4	23.1	455	3.23	0.6	0.8	204.2	2.3	194	<0.1	<0.1	<0.1	62	0.70	0.116
STD OXC129	Standard	1.3	26.9	6.7	40	<0.1	73.3	18.3	414	2.87	0.6	0.8	203.3	2.2	195	<0.1	<0.1	<0.1	54	0.69	0.101
STD OXC129	Standard	1.3	28.3	6.5	44	<0.1	77.1	20.3	411	3.10	0.9	0.7	192.3	1.8	185	<0.1	<0.1	<0.1	54	0.68	0.110
STD OXC129	Standard	1.3	32.0	7.3	45	<0.1	86.2	22.7	439	3.19	0.7	0.8	195.9	2.3	193	<0.1	<0.1	<0.1	61	0.68	0.114
STD OXC129	Standard	1.3	31.3	7.2	44	<0.1	80.6	21.1	413	3.10	0.7	0.8	193.9	2.3	186	<0.1	<0.1	<0.1	59	0.71	0.111
STD OXC129	Standard	1.2	26.5	6.3	41	<0.1	72.2	18.9	409	3.03	0.7	0.7	186.9	1.8	198	<0.1	<0.1	<0.1	50	0.76	0.097
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	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	<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
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	<2	<0.01	<0.001

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Project: MCQ
Report Date: September 07, 2017

QUALITY CONTROL REPORT   WHI17000675.1

		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
STD DS11	Standard	19	56	0.79	370	0.093	7	1.10	0.070	0.37	2.9	0.26	3.3	4.9	0.24	5	2.2	4.7
STD OXC129	Standard	15	54	1.51	49	0.410	<1	1.53	0.579	0.35	<0.1	<0.01	0.8	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	13	55	1.54	50	0.424	<1	1.49	0.580	0.36	<0.1	<0.01	1.0	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	13	55	1.62	51	0.406	1	1.62	0.590	0.36	<0.1	<0.01	1.3	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	13	50	1.55	51	0.375	2	1.52	0.597	0.37	<0.1	<0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	15	58	1.65	51	0.442	2	1.59	0.620	0.35	<0.1	<0.01	0.8	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	14	50	1.51	49	0.437	3	1.53	0.580	0.35	<0.1	<0.01	0.7	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	13	53	1.50	50	0.400	1	1.60	0.555	0.37	<0.1	<0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	15	59	1.59	53	0.439	1	1.61	0.582	0.35	<0.1	<0.01	0.8	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	15	56	1.62	49	0.435	<1	1.56	0.613	0.35	<0.1	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	12	51	1.43	52	0.388	2	1.56	0.577	0.34	<0.1	<0.01	0.9	<0.1	<0.05	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	<0.05	<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
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	4	<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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Client: **Ryanwood Exploration Inc.**
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Submitted By: Shawn Ryan
Receiving Lab: Canada-Whitehorse
Received: August 23, 2017
Report Date: September 06, 2017
Page: 1 of 12

CERTIFICATE OF ANALYSIS WHI17000676.1

CLIENT JOB INFORMATION

Project: MCQ
Shipment ID: MCQ-20170822-001-SOIL
P.O. Number
Number of Samples: 320

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.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	320	Dry at 60C			WHI
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
AQ201	320	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
SHP01	320	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

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

CC: Isaac Fage
Jodie Gibson

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Production Manager

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

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Client: **Ryanwood Exploration Inc.**
Box 213
Dawson City Yukon Y0B 1G0 Canada

Project: MCQ
Report Date: September 06, 2017

CERTIFICATE OF ANALYSIS WHI17000676.1

		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
1548149	Soil		0.5	8.2	6.4	33	<0.1	8.8	5.6	243	1.36	10.4	0.5	1.1	2.0	6	0.1	0.7	0.1	17	0.06	0.042
1537689	Soil		0.7	10.6	8.9	39	<0.1	10.5	3.8	136	1.83	12.1	0.6	5.3	0.5	7	0.1	0.8	0.2	26	0.06	0.051
1537677	Soil		0.8	18.3	8.9	52	<0.1	16.2	6.5	229	1.88	13.3	0.7	45.1	2.0	9	0.2	0.8	0.1	24	0.10	0.057
1537693	Soil		0.6	14.1	7.8	43	<0.1	12.5	4.7	163	1.64	10.9	0.7	86.4	1.1	8	0.1	0.6	0.1	21	0.09	0.051
1537694	Soil		0.6	24.5	10.7	71	<0.1	19.9	8.1	262	1.89	10.4	0.9	98.5	6.0	11	0.2	0.8	0.2	20	0.11	0.053
1537695	Soil		0.6	20.2	7.8	57	<0.1	16.3	6.5	176	1.76	8.5	1.1	13.0	6.4	8	0.1	0.7	0.1	18	0.09	0.042
1537686	Soil		0.6	20.9	9.1	49	<0.1	16.1	7.6	266	1.88	12.9	1.1	<0.5	3.6	8	0.1	0.8	0.1	24	0.08	0.056
1537692	Soil		0.4	22.8	7.2	50	<0.1	13.8	6.1	224	1.53	10.8	0.7	1.2	3.8	9	0.1	0.7	0.1	17	0.09	0.048
1537697	Soil		0.9	19.3	7.6	54	<0.1	13.5	6.5	162	1.84	11.2	1.1	0.6	4.5	8	0.2	0.8	0.1	23	0.08	0.048
1537688	Soil		0.7	9.6	9.5	36	<0.1	10.3	3.8	130	1.74	11.6	0.5	3.2	0.5	6	0.1	0.6	0.1	24	0.06	0.043
1545477	Soil		1.2	31.9	10.6	98	<0.1	32.8	9.8	686	2.28	11.9	1.0	2.6	6.0	18	0.6	1.3	0.2	32	0.16	0.087
1537684	Soil		0.7	15.9	8.1	43	<0.1	14.4	6.6	230	1.81	12.0	0.8	64.4	2.3	7	<0.1	0.6	0.1	23	0.08	0.049
1537680	Soil		0.6	12.3	8.1	32	<0.1	8.3	3.5	121	1.61	10.2	0.8	2.1	0.9	7	<0.1	0.5	0.1	24	0.06	0.056
1548143	Soil		0.5	10.1	8.4	35	<0.1	11.1	5.0	193	1.84	12.8	0.4	<0.5	2.4	6	<0.1	0.7	0.1	20	0.06	0.045
1545481	Soil		1.2	30.5	11.6	89	<0.1	28.1	9.1	626	2.43	11.2	0.9	15.3	5.0	17	0.7	1.3	0.2	32	0.15	0.072
1545482	Soil		0.7	20.7	7.5	56	<0.1	17.2	6.4	253	1.68	10.9	0.5	1.0	4.4	10	0.2	0.8	0.1	19	0.10	0.064
1545476	Soil		0.6	18.2	7.7	46	<0.1	12.2	5.5	170	1.66	10.2	1.0	2.1	2.4	7	0.2	0.7	0.1	23	0.07	0.056
1537690	Soil		1.2	32.0	11.9	91	<0.1	27.6	10.7	563	2.82	11.2	1.2	75.0	7.1	17	0.5	1.3	0.2	35	0.15	0.076
1545480	Soil		1.3	28.2	10.6	90	<0.1	28.4	9.5	418	2.37	11.2	0.9	1.8	5.0	20	0.6	1.5	0.2	32	0.17	0.081
1537679	Soil		0.8	23.3	9.9	60	0.1	22.6	8.4	406	2.09	12.0	0.9	226.9	4.1	12	0.4	1.0	0.2	26	0.12	0.058
1537696	Soil		0.8	22.9	10.8	70	<0.1	18.7	8.1	293	2.16	13.4	0.8	5.8	5.3	11	0.2	1.0	0.2	26	0.12	0.062
1537687	Soil		0.7	14.0	8.2	48	<0.1	12.9	6.3	222	1.79	12.3	0.8	21.9	2.0	7	0.1	0.7	0.1	23	0.08	0.051
1545478	Soil		1.1	24.5	11.4	87	<0.1	24.2	9.3	402	2.21	13.0	0.9	2.8	4.7	15	0.3	1.4	0.2	30	0.15	0.079
1545479	Soil		1.1	27.1	10.5	80	<0.1	24.4	8.6	389	2.25	11.9	0.9	45.6	4.8	14	0.4	1.2	0.2	30	0.13	0.064
1537682	Soil		0.7	20.4	9.2	50	<0.1	17.1	5.7	226	1.86	12.1	0.8	121.8	2.3	8	0.2	0.7	0.2	25	0.08	0.050
1537681	Soil		0.6	13.1	7.2	39	<0.1	10.2	4.8	167	1.64	10.6	0.8	21.9	1.3	6	<0.1	0.6	0.1	23	0.06	0.041
1537691	Soil		0.7	14.1	8.1	48	<0.1	12.1	5.6	180	1.73	10.3	0.9	4.0	1.5	9	0.1	0.6	0.1	25	0.09	0.053
1545485	Soil		0.8	17.4	8.0	55	<0.1	15.0	5.2	147	1.91	9.3	0.7	2.5	2.3	8	<0.1	0.8	0.1	24	0.07	0.050
1537700	Soil		0.7	11.1	7.7	38	<0.1	9.6	4.8	206	1.76	10.5	0.5	31.3	1.7	6	<0.1	0.6	0.1	24	0.06	0.040
1537678	Soil		0.6	17.9	8.0	43	<0.1	13.3	5.6	203	1.70	12.7	0.9	1.9	2.3	7	0.2	0.6	0.2	23	0.07	0.047

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Project: MCQ
Report Date: September 06, 2017

CERTIFICATE OF ANALYSIS WHI17000676.1

		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
1548149	Soil		9	11	0.20	36	0.014	<1	0.65	0.002	0.02	0.2	0.02	1.0	<0.1	<0.05	2	<0.5	<0.2
1537689	Soil		12	15	0.22	82	0.011	<1	0.76	0.002	0.02	0.4	0.02	0.8	<0.1	<0.05	3	<0.5	<0.2
1537677	Soil		13	14	0.25	66	0.014	<1	0.69	0.002	0.03	0.5	0.03	1.1	<0.1	<0.05	2	<0.5	<0.2
1537693	Soil		13	13	0.23	97	0.012	<1	0.74	0.002	0.03	0.4	0.03	1.1	<0.1	<0.05	2	<0.5	<0.2
1537694	Soil		22	14	0.32	171	0.014	<1	0.75	0.002	0.03	0.3	0.03	1.8	<0.1	<0.05	2	<0.5	<0.2
1537695	Soil		24	13	0.29	157	0.014	<1	0.74	0.002	0.03	0.3	0.04	1.9	<0.1	<0.05	2	<0.5	<0.2
1537686	Soil		17	15	0.27	122	0.015	<1	0.83	0.002	0.03	0.4	0.04	2.1	<0.1	<0.05	2	<0.5	<0.2
1537692	Soil		13	10	0.23	117	0.014	<1	0.57	0.002	0.02	0.2	0.03	1.9	<0.1	<0.05	2	<0.5	<0.2
1537697	Soil		15	15	0.28	111	0.016	<1	0.86	0.002	0.03	0.4	0.04	1.7	<0.1	<0.05	2	<0.5	<0.2
1537688	Soil		11	14	0.22	63	0.011	<1	0.70	0.002	0.03	0.4	0.02	0.7	<0.1	<0.05	2	0.5	<0.2
1545477	Soil		15	18	0.33	142	0.019	<1	0.83	0.003	0.05	0.5	0.03	2.4	<0.1	<0.05	2	<0.5	<0.2
1537684	Soil		14	14	0.24	97	0.015	<1	0.76	0.002	0.03	0.4	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1537680	Soil		12	14	0.20	91	0.012	<1	0.81	0.002	0.02	0.2	0.03	1.2	<0.1	<0.05	3	<0.5	<0.2
1548143	Soil		10	11	0.21	42	0.013	<1	0.55	0.002	0.02	0.2	<0.01	1.0	<0.1	<0.05	2	<0.5	<0.2
1545481	Soil		20	18	0.35	249	0.023	<1	0.84	0.003	0.05	0.6	0.07	2.9	<0.1	<0.05	3	<0.5	<0.2
1545482	Soil		12	12	0.24	89	0.015	<1	0.65	0.002	0.03	0.4	<0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
1545476	Soil		16	14	0.23	94	0.014	<1	0.83	0.002	0.03	0.4	0.03	1.8	<0.1	<0.05	2	<0.5	<0.2
1537690	Soil		22	22	0.37	122	0.024	<1	0.83	0.003	0.04	0.8	0.03	2.5	<0.1	<0.05	3	0.8	<0.2
1545480	Soil		16	19	0.34	239	0.022	<1	0.75	0.003	0.05	0.4	0.08	2.5	<0.1	<0.05	2	0.6	<0.2
1537679	Soil		17	15	0.28	151	0.018	<1	0.74	0.002	0.04	0.5	0.03	1.9	<0.1	<0.05	2	<0.5	<0.2
1537696	Soil		16	16	0.28	67	0.017	<1	0.74	0.002	0.04	0.5	0.02	1.7	<0.1	<0.05	2	<0.5	<0.2
1537687	Soil		12	14	0.24	87	0.014	<1	0.78	0.003	0.03	0.4	0.05	1.4	<0.1	<0.05	2	<0.5	<0.2
1545478	Soil		15	18	0.31	99	0.019	<1	0.95	0.003	0.05	0.3	0.02	2.0	<0.1	<0.05	2	<0.5	<0.2
1545479	Soil		18	17	0.32	271	0.021	<1	0.81	0.003	0.05	0.5	0.04	2.4	<0.1	<0.05	3	<0.5	<0.2
1537682	Soil		15	15	0.24	230	0.014	<1	0.84	0.002	0.04	0.4	0.03	1.6	<0.1	<0.05	3	<0.5	<0.2
1537681	Soil		12	13	0.23	79	0.012	<1	0.75	0.002	0.02	0.3	0.03	1.1	<0.1	<0.05	2	<0.5	<0.2
1537691	Soil		13	16	0.27	148	0.016	<1	0.88	0.003	0.03	0.3	0.03	1.8	<0.1	<0.05	2	<0.5	<0.2
1545485	Soil		13	15	0.25	71	0.014	<1	0.77	0.002	0.03	0.2	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1537700	Soil		11	15	0.21	53	0.012	<1	0.75	0.002	0.03	0.3	0.02	1.0	<0.1	<0.05	2	0.6	<0.2
1537678	Soil		14	15	0.23	190	0.014	<1	0.84	0.002	0.03	0.4	0.02	1.9	<0.1	<0.05	2	<0.5	<0.2

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Project: MCQ
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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
1545484	Soil		0.7	18.7	7.6	56	<0.1	16.1	6.2	223	1.61	8.8	0.5	2.7	4.0	11	0.1	0.7	0.1	21	0.12	0.055
1545483	Soil		0.7	24.3	8.5	56	<0.1	19.6	7.0	294	1.68	10.0	0.8	3.0	4.6	11	0.3	0.8	0.2	21	0.11	0.057
1548127	Soil		0.2	3.5	6.1	8	<0.1	2.3	0.8	23	0.76	4.7	0.3	3.9	0.2	3	<0.1	0.1	0.1	17	0.02	0.051
1548120	Soil		0.5	5.5	5.3	29	<0.1	6.5	2.2	58	1.20	6.4	0.5	0.9	0.2	6	<0.1	0.4	0.1	20	0.05	0.046
1537676	Soil		0.7	11.2	8.6	32	<0.1	8.8	3.1	81	1.71	11.0	0.7	<0.5	0.3	6	<0.1	0.5	0.1	26	0.06	0.058
1537699	Soil		0.6	9.5	8.2	35	<0.1	9.4	5.4	215	1.79	10.5	0.5	<0.5	1.4	5	<0.1	0.6	0.1	22	0.05	0.038
1548129	Soil		0.6	8.0	6.6	27	<0.1	8.3	3.7	106	1.36	8.6	0.6	2.1	1.9	5	<0.1	0.4	0.1	23	0.05	0.035
1548122	Soil		0.4	8.6	8.8	22	0.1	6.0	1.7	35	1.12	6.1	0.7	9.9	0.2	5	<0.1	0.4	0.1	28	0.04	0.084
1548130	Soil		0.6	8.9	6.7	27	<0.1	9.0	4.1	108	1.48	8.9	0.6	1.3	1.6	5	<0.1	0.5	0.1	24	0.05	0.036
1537683	Soil		0.9	28.7	11.7	59	<0.1	25.3	10.0	336	2.25	11.8	1.2	105.2	7.1	10	0.3	0.8	0.2	22	0.09	0.053
1548125	Soil		0.6	5.2	7.1	19	<0.1	5.5	1.9	57	1.35	7.2	0.5	2.1	0.6	5	<0.1	0.4	0.1	29	0.04	0.035
1548121	Soil		0.3	6.5	6.8	27	0.1	6.0	1.9	48	1.26	4.5	0.6	1.7	0.5	7	<0.1	0.4	0.1	22	0.08	0.057
1548123	Soil		0.3	3.5	5.5	12	<0.1	2.9	1.0	27	0.96	5.4	0.4	1.1	0.2	4	<0.1	0.2	0.1	23	0.03	0.037
1537698	Soil		0.9	18.6	9.9	51	<0.1	16.1	7.2	231	2.02	14.1	0.9	3.6	2.3	10	0.2	0.9	0.2	29	0.10	0.072
1548131	Soil		0.6	10.0	6.7	32	<0.1	8.9	4.2	134	1.54	7.9	0.6	2.1	1.7	5	<0.1	0.5	0.1	22	0.04	0.032
1548128	Soil		0.7	12.0	8.4	40	<0.1	11.8	5.4	195	1.78	10.7	0.7	6.1	2.8	7	<0.1	0.6	0.1	29	0.07	0.048
1548126	Soil		0.6	9.6	7.0	32	<0.1	10.2	5.3	177	1.55	9.6	0.6	2.5	1.4	6	<0.1	0.6	0.1	23	0.05	0.032
1537685	Soil		1.0	19.9	12.7	45	<0.1	13.3	4.8	144	2.46	14.3	1.1	2.2	1.1	9	<0.1	0.8	0.2	37	0.09	0.063
1548407	Soil		0.8	15.4	9.8	40	<0.1	12.5	5.0	156	2.01	9.3	0.9	1.6	2.5	8	<0.1	0.6	0.2	30	0.06	0.057
1548409	Soil		0.6	15.4	11.2	42	<0.1	13.4	5.2	179	1.82	6.7	0.8	1.7	1.5	8	<0.1	0.7	0.1	24	0.07	0.050
1548406	Soil		0.7	18.8	10.3	47	<0.1	15.6	5.9	164	1.57	7.3	0.9	1.7	4.3	9	<0.1	0.6	0.1	24	0.10	0.049
1548124	Soil		0.4	4.1	6.5	15	<0.1	4.2	1.6	45	1.13	6.3	0.4	1.5	0.3	5	<0.1	0.2	0.1	27	0.04	0.030
1548413	Soil		0.6	23.3	8.1	48	<0.1	25.0	6.9	162	2.06	7.6	1.0	2.5	2.0	9	0.1	0.7	0.2	23	0.06	0.048
1548408	Soil		0.9	28.2	12.4	68	<0.1	25.6	11.5	268	2.61	6.4	1.5	9.6	2.3	7	0.1	1.0	0.2	17	0.03	0.036
1548411	Soil		0.6	17.1	9.0	47	<0.1	14.9	7.6	182	1.73	8.9	1.3	2.9	5.6	10	<0.1	0.6	0.2	26	0.09	0.046
1548410	Soil		0.7	20.7	11.9	47	<0.1	18.5	7.9	190	2.01	8.3	1.2	4.0	5.2	9	<0.1	0.6	0.2	21	0.08	0.049
1548142	Soil		0.5	8.2	7.8	27	<0.1	7.2	2.8	92	1.52	9.5	0.7	1.9	1.7	5	<0.1	0.5	0.1	24	0.04	0.029
1548401	Soil		0.5	20.5	8.1	48	<0.1	15.8	6.9	210	1.62	9.7	0.7	3.1	5.0	10	0.1	0.7	0.1	21	0.11	0.060
1548403	Soil		0.6	19.8	7.4	44	<0.1	14.6	5.7	173	1.59	9.8	1.0	1.9	3.6	9	<0.1	0.8	0.1	20	0.10	0.054
1548404	Soil		0.6	17.3	8.9	49	<0.1	16.8	9.2	327	1.81	7.5	1.1	27.3	2.0	8	<0.1	0.7	0.2	20	0.07	0.051

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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
1545484	Soil		13	13	0.26	116	0.015	<1	0.67	0.002	0.03	0.3	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1545483	Soil		15	13	0.26	161	0.017	<1	0.67	0.002	0.04	0.3	0.03	2.1	<0.1	<0.05	2	<0.5	<0.2
1548127	Soil		8	8	0.07	41	0.007	<1	0.43	0.002	0.02	<0.1	0.03	0.2	<0.1	<0.05	3	<0.5	<0.2
1548120	Soil		9	13	0.19	65	0.008	<1	0.68	0.002	0.02	0.2	0.02	0.4	<0.1	<0.05	2	<0.5	<0.2
1537676	Soil		11	14	0.22	57	0.010	<1	0.74	0.002	0.02	0.2	0.02	0.7	<0.1	<0.05	3	<0.5	<0.2
1537699	Soil		12	14	0.20	47	0.012	<1	0.70	0.002	0.02	0.3	0.02	0.9	<0.1	<0.05	2	<0.5	<0.2
1548129	Soil		11	12	0.21	76	0.015	<1	0.71	0.002	0.02	0.2	0.03	1.7	<0.1	<0.05	2	<0.5	<0.2
1548122	Soil		10	19	0.14	66	0.006	1	1.01	0.002	0.02	<0.1	0.05	0.5	<0.1	<0.05	3	1.0	<0.2
1548130	Soil		12	14	0.20	54	0.015	<1	0.77	0.002	0.02	0.2	0.03	1.6	<0.1	<0.05	2	<0.5	<0.2
1537683	Soil		26	16	0.26	145	0.016	<1	0.76	0.002	0.03	0.4	0.03	1.9	<0.1	<0.05	2	<0.5	<0.2
1548125	Soil		10	14	0.16	63	0.016	<1	0.69	0.002	0.02	0.2	0.03	1.0	<0.1	<0.05	3	<0.5	<0.2
1548121	Soil		10	14	0.18	63	0.010	<1	0.92	0.002	0.02	0.1	0.04	0.9	<0.1	<0.05	3	0.7	<0.2
1548123	Soil		8	13	0.09	45	0.006	<1	0.62	0.002	0.02	<0.1	0.04	0.5	<0.1	<0.05	3	0.6	<0.2
1537698	Soil		19	17	0.28	86	0.018	<1	0.96	0.003	0.04	0.4	0.04	1.7	<0.1	<0.05	3	<0.5	<0.2
1548131	Soil		11	14	0.22	76	0.015	<1	0.76	0.002	0.02	0.2	0.03	1.3	<0.1	<0.05	2	0.5	<0.2
1548128	Soil		14	16	0.25	70	0.022	<1	0.88	0.003	0.03	0.2	0.03	1.8	<0.1	<0.05	3	<0.5	<0.2
1548126	Soil		11	12	0.21	67	0.014	<1	0.68	0.002	0.02	0.2	0.02	1.2	<0.1	<0.05	2	<0.5	<0.2
1537685	Soil		18	22	0.32	103	0.017	<1	1.26	0.003	0.04	0.3	0.05	1.7	0.1	<0.05	3	<0.5	<0.2
1548407	Soil		16	17	0.25	120	0.014	<1	0.89	0.002	0.03	0.2	0.04	1.8	<0.1	<0.05	3	<0.5	<0.2
1548409	Soil		19	14	0.23	108	0.012	<1	0.75	0.002	0.03	0.2	0.05	1.1	<0.1	<0.05	2	<0.5	<0.2
1548406	Soil		17	15	0.26	114	0.015	<1	0.85	0.003	0.04	0.5	0.04	2.3	<0.1	<0.05	2	0.5	<0.2
1548124	Soil		10	12	0.13	46	0.014	<1	0.66	0.003	0.02	0.2	0.02	0.7	<0.1	<0.05	3	0.7	<0.2
1548413	Soil		25	35	0.44	70	0.010	<1	0.99	0.002	0.03	0.1	0.02	1.4	<0.1	<0.05	3	<0.5	<0.2
1548408	Soil		31	13	0.22	136	0.006	<1	0.65	0.002	0.04	0.2	0.10	1.2	<0.1	<0.05	2	<0.5	<0.2
1548411	Soil		19	15	0.29	138	0.016	<1	0.81	0.003	0.03	0.2	0.07	2.1	<0.1	<0.05	2	<0.5	<0.2
1548410	Soil		21	13	0.27	117	0.015	<1	0.74	0.002	0.03	0.3	0.03	1.5	<0.1	<0.05	2	<0.5	<0.2
1548142	Soil		11	14	0.21	50	0.018	<1	0.89	0.002	0.02	0.2	0.02	1.2	<0.1	<0.05	2	<0.5	<0.2
1548401	Soil		14	13	0.24	86	0.016	<1	0.73	0.002	0.03	0.3	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1548403	Soil		15	12	0.23	144	0.014	<1	0.62	0.002	0.03	0.2	0.03	1.8	<0.1	<0.05	2	<0.5	<0.2
1548404	Soil		24	13	0.24	175	0.010	<1	0.73	0.003	0.03	0.3	0.02	1.3	<0.1	<0.05	2	<0.5	<0.2

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Project: MCQ
Report Date: September 06, 2017

CERTIFICATE OF ANALYSIS WHI17000676.1

		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
1548140	Soil		0.7	8.7	8.1	34	<0.1	9.2	5.1	174	1.66	9.9	0.6	2.3	3.5	5	<0.1	0.6	0.1	26	0.04	0.030
1548134	Soil		0.9	12.8	8.3	40	<0.1	11.7	6.8	205	1.80	11.4	1.1	5.0	3.5	5	<0.1	0.6	0.2	30	0.04	0.031
1548412	Soil		0.8	16.3	8.2	33	<0.1	10.7	4.5	131	1.57	8.3	1.0	1.8	0.6	9	<0.1	0.5	0.2	24	0.06	0.047
1548405	Soil		0.9	29.1	10.0	64	<0.1	19.9	9.7	276	2.07	10.4	1.2	2.6	6.0	9	0.2	1.1	0.2	24	0.09	0.047
1548154	Soil		0.4	9.0	7.0	28	<0.1	8.6	3.5	92	1.49	8.3	0.6	12.7	1.3	6	<0.1	0.5	0.1	19	0.05	0.039
1548148	Soil		0.8	10.7	9.9	48	<0.1	13.6	10.4	314	2.09	12.1	1.0	7.6	4.8	7	0.3	0.7	0.2	34	0.06	0.037
1548139	Soil		1.0	27.9	10.7	54	<0.1	19.3	10.1	300	2.21	12.8	1.6	3.7	6.4	8	<0.1	0.9	0.2	41	0.06	0.031
1548137	Soil		0.5	10.6	7.4	34	<0.1	10.7	7.6	236	1.59	9.2	0.8	1.7	2.3	6	0.1	0.6	0.1	21	0.04	0.037
1548155	Soil		0.6	8.6	7.9	39	<0.1	9.3	4.2	121	1.78	11.1	0.5	2.3	0.8	7	<0.1	0.5	0.1	22	0.07	0.057
1548152	Soil		0.8	13.0	8.2	34	<0.1	10.0	4.8	177	1.64	11.9	0.6	0.9	2.3	6	0.1	0.5	0.1	22	0.06	0.067
1548135	Soil		0.5	9.6	8.0	37	<0.1	11.8	6.5	238	1.68	11.4	0.6	3.2	2.8	7	0.1	0.6	0.1	18	0.07	0.048
1548136	Soil		0.6	10.6	7.1	29	<0.1	8.7	4.6	121	1.52	9.1	0.8	4.3	1.8	5	<0.1	0.5	0.1	26	0.03	0.041
1548420	Soil		0.6	16.9	6.8	43	<0.1	14.5	6.5	205	1.47	10.5	0.7	19.8	4.0	8	0.1	0.7	0.2	18	0.09	0.055
1548153	Soil		0.6	6.9	6.5	31	<0.1	8.4	3.6	121	1.47	10.6	0.4	3.5	0.5	5	<0.1	0.6	0.2	23	0.04	0.040
1548133	Soil		0.7	12.7	7.5	39	<0.1	10.8	5.7	186	1.69	9.3	0.8	2.2	2.1	6	<0.1	0.7	0.2	31	0.04	0.033
1548132	Soil		0.6	8.4	6.6	31	<0.1	8.8	3.9	141	1.47	10.7	0.4	1.7	2.2	4	<0.1	0.6	0.1	21	0.04	0.029
1548423	Soil		0.9	35.4	14.1	76	<0.1	28.4	11.0	350	2.87	8.4	1.7	21.6	11.0	11	0.2	1.2	0.4	19	0.06	0.040
1548156	Soil		0.5	8.0	6.6	33	<0.1	7.4	2.9	83	1.37	8.8	0.7	1.9	0.2	6	0.1	0.4	0.2	24	0.05	0.043
1548150	Soil		0.5	8.3	6.6	32	<0.1	8.8	5.2	219	1.38	10.3	0.5	1.9	1.5	5	<0.1	0.6	0.1	19	0.05	0.039
1548138	Soil		0.7	14.3	8.7	40	0.1	13.9	7.8	200	1.99	11.5	0.6	2.5	3.8	6	0.1	0.7	0.2	32	0.05	0.029
1546088	Soil		0.7	21.6	9.2	48	<0.1	14.9	5.8	148	1.85	9.8	1.1	17.1	4.3	10	0.2	1.9	0.2	22	0.09	0.046
1545808	Soil		0.7	22.4	7.7	54	<0.1	16.5	5.6	154	1.65	9.1	1.0	2.1	4.1	14	0.1	1.0	0.2	25	0.14	0.052
1545806	Soil		0.6	25.4	8.9	50	<0.1	20.0	7.0	174	1.95	12.1	0.9	2.2	3.3	11	0.2	1.8	0.2	22	0.11	0.045
1545785	Soil		0.8	25.8	11.5	60	<0.1	21.9	8.0	254	2.22	14.1	0.9	27.7	6.2	10	0.1	2.1	0.2	22	0.08	0.051
1546089	Soil		0.7	29.8	10.6	53	<0.1	17.7	6.3	125	1.76	10.1	1.4	4.3	4.9	13	<0.1	1.7	0.3	25	0.11	0.050
1545812	Soil		0.6	25.3	10.4	48	<0.1	19.9	8.0	209	2.18	11.9	1.1	14.5	6.3	7	<0.1	1.8	0.3	21	0.05	0.031
1545814	Soil		0.8	25.8	10.5	47	<0.1	19.4	8.3	240	2.10	11.8	1.3	1.2	6.3	10	<0.1	1.1	0.3	28	0.09	0.034
1545807	Soil		0.8	28.1	8.4	57	<0.1	21.8	7.0	205	1.96	11.3	1.0	11.5	5.9	13	0.2	1.6	0.2	23	0.13	0.048
1546092	Soil		0.9	25.4	10.4	52	<0.1	15.6	6.3	175	2.08	9.6	1.2	4.3	4.8	8	0.1	1.5	0.2	23	0.06	0.046
1545813	Soil		0.6	26.5	9.5	52	<0.1	20.4	7.5	209	2.07	10.7	1.0	2.7	6.3	9	0.2	1.6	0.2	20	0.08	0.040

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Project: MCQ
Report Date: September 06, 2017

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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
1548140	Soil		12	14	0.22	80	0.021	<1	0.80	0.002	0.03	0.2	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
1548134	Soil		13	16	0.25	104	0.024	<1	1.05	0.003	0.03	0.3	0.03	2.4	<0.1	<0.05	2	<0.5	<0.2
1548412	Soil		16	14	0.20	157	0.008	<1	0.81	0.002	0.03	0.3	0.05	0.8	<0.1	<0.05	3	<0.5	<0.2
1548405	Soil		22	16	0.29	117	0.019	<1	0.84	0.003	0.04	0.3	0.05	2.2	<0.1	<0.05	2	<0.5	<0.2
1548154	Soil		11	12	0.19	47	0.012	<1	0.71	0.002	0.02	0.2	0.03	1.1	<0.1	<0.05	2	<0.5	<0.2
1548148	Soil		16	22	0.31	117	0.030	<1	1.16	0.004	0.03	0.2	0.04	3.1	<0.1	<0.05	3	0.5	<0.2
1548139	Soil		17	25	0.34	184	0.035	<1	1.33	0.005	0.04	0.2	0.05	4.0	<0.1	<0.05	3	0.7	<0.2
1548137	Soil		13	12	0.21	72	0.016	<1	0.77	0.003	0.02	0.2	0.02	1.6	<0.1	<0.05	2	0.5	<0.2
1548155	Soil		11	13	0.22	44	0.012	<1	0.69	0.002	0.03	0.2	0.03	1.0	<0.1	<0.05	2	0.5	<0.2
1548152	Soil		12	11	0.19	33	0.014	<1	0.63	0.001	0.02	0.2	0.01	1.1	<0.1	<0.05	2	<0.5	<0.2
1548135	Soil		12	12	0.21	49	0.014	<1	0.71	0.002	0.02	0.2	0.05	1.3	<0.1	<0.05	2	0.7	<0.2
1548136	Soil		12	14	0.20	97	0.019	<1	0.84	0.002	0.02	0.2	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
1548420	Soil		13	10	0.20	69	0.011	2	0.59	0.002	0.02	0.4	0.02	1.3	<0.1	<0.05	2	<0.5	<0.2
1548153	Soil		10	11	0.19	40	0.012	2	0.57	0.002	0.02	0.2	0.02	0.6	<0.1	<0.05	2	<0.5	<0.2
1548133	Soil		14	16	0.25	109	0.023	1	0.94	0.003	0.02	0.2	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
1548132	Soil		11	12	0.20	43	0.017	1	0.63	0.002	0.02	0.2	0.02	1.0	<0.1	<0.05	2	<0.5	<0.2
1548423	Soil		33	14	0.28	293	0.010	<1	0.73	0.003	0.04	0.2	0.07	2.2	<0.1	<0.05	2	<0.5	<0.2
1548156	Soil		11	14	0.19	60	0.010	<1	0.78	0.003	0.02	0.1	0.03	0.5	<0.1	<0.05	3	<0.5	<0.2
1548150	Soil		11	11	0.20	37	0.015	1	0.66	0.002	0.02	0.2	0.01	1.0	<0.1	<0.05	2	<0.5	<0.2
1548138	Soil		11	18	0.27	82	0.028	1	1.07	0.003	0.02	0.2	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
1546088	Soil		21	14	0.26	208	0.009	1	0.80	0.003	0.03	0.2	0.03	1.8	<0.1	<0.05	2	<0.5	<0.2
1545808	Soil		18	14	0.25	279	0.016	<1	0.68	0.003	0.03	0.2	0.03	1.9	<0.1	<0.05	2	<0.5	<0.2
1545806	Soil		21	14	0.23	199	0.011	<1	0.65	0.003	0.03	0.2	0.04	1.6	<0.1	<0.05	2	<0.5	<0.2
1545785	Soil		17	15	0.29	112	0.013	1	0.75	0.003	0.05	0.2	0.03	1.8	<0.1	<0.05	2	<0.5	<0.2
1546089	Soil		22	16	0.27	249	0.012	<1	0.79	0.003	0.04	0.2	0.04	2.4	0.1	<0.05	2	<0.5	<0.2
1545812	Soil		27	17	0.27	106	0.010	<1	0.80	0.003	0.04	0.1	0.04	1.8	0.1	<0.05	2	<0.5	<0.2
1545814	Soil		22	18	0.28	210	0.015	<1	0.91	0.003	0.03	0.2	0.04	2.4	<0.1	<0.05	3	0.5	<0.2
1545807	Soil		23	15	0.27	232	0.018	<1	0.70	0.004	0.04	0.3	0.05	2.1	<0.1	<0.05	2	0.5	<0.2
1546092	Soil		22	16	0.27	143	0.010	1	0.89	0.003	0.03	0.2	0.04	1.9	<0.1	<0.05	2	<0.5	<0.2
1545813	Soil		26	17	0.29	128	0.012	1	0.74	0.003	0.04	0.1	0.05	1.8	<0.1	<0.05	2	<0.5	<0.2

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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
1545809	Soil		0.9	29.7	7.6	64	<0.1	21.5	6.2	213	1.82	10.7	0.9	6.1	5.5	14	0.2	1.2	0.2	26	0.13	0.044
1545799	Soil		0.8	18.6	10.2	52	<0.1	20.5	7.4	173	1.97	15.1	0.7	75.6	5.5	8	0.1	1.2	0.2	25	0.07	0.046
1546093	Soil		1.0	26.1	9.8	64	<0.1	20.3	7.0	208	2.52	14.2	1.1	6.6	6.3	12	0.2	1.8	0.2	24	0.11	0.063
1546090	Soil		0.8	22.3	11.6	46	<0.1	14.2	5.9	151	2.05	10.9	1.1	7.4	5.2	10	<0.1	1.8	0.2	25	0.08	0.047
1545810	Soil		0.6	26.5	7.6	48	<0.1	16.1	6.1	151	1.67	15.7	0.9	45.0	5.4	12	0.1	0.9	0.1	20	0.12	0.058
1545811	Soil		0.7	24.8	7.6	50	<0.1	16.6	7.0	182	1.81	13.1	1.1	29.0	4.7	13	<0.1	0.9	0.1	24	0.13	0.053
1546083	Soil		0.7	20.6	10.6	51	<0.1	16.3	6.4	131	1.94	9.5	1.2	12.6	7.8	7	<0.1	4.6	0.2	19	0.05	0.036
1546079	Soil		2.6	41.9	20.9	89	<0.1	29.2	10.9	238	3.94	11.0	2.1	4.6	14.0	13	0.1	8.3	0.6	16	0.06	0.050
1546091	Soil		0.8	25.5	11.4	56	<0.1	18.2	6.5	148	2.33	10.3	1.1	3.7	6.7	8	0.1	1.6	0.3	22	0.05	0.039
1546095	Soil		0.8	16.5	9.5	47	<0.1	13.4	4.6	99	1.86	9.9	0.8	3.6	3.3	11	0.1	1.1	0.2	24	0.10	0.050
1546082	Soil		0.8	15.2	10.5	46	<0.1	13.5	5.6	145	2.06	12.3	0.9	2.8	3.8	7	<0.1	2.9	0.2	24	0.06	0.045
1546076	Soil		0.9	13.8	11.0	41	0.1	10.5	4.4	92	1.90	12.8	1.0	2.4	3.1	7	<0.1	1.7	0.2	30	0.06	0.052
1546094	Soil		0.6	19.1	8.6	51	<0.1	15.1	5.1	111	1.66	8.6	1.0	27.9	4.9	11	0.1	1.1	0.2	22	0.10	0.049
1546096	Soil		0.8	22.0	10.0	53	<0.1	14.7	5.4	113	1.89	11.3	1.1	2.7	3.7	11	0.1	1.2	0.2	26	0.10	0.060
1546085	Soil		1.4	35.0	16.5	74	<0.1	27.6	9.3	259	2.77	10.6	2.0	2.1	13.3	14	0.1	5.5	0.3	15	0.07	0.048
1546080	Soil		0.9	28.4	12.9	59	<0.1	21.7	7.2	158	2.27	11.2	1.6	3.1	7.6	9	0.1	6.5	0.3	20	0.06	0.039
1546098	Soil		0.8	22.4	12.0	50	0.1	15.8	5.4	106	1.99	11.6	1.2	23.9	2.7	8	0.1	1.5	0.3	24	0.07	0.054
1546097	Soil		1.0	18.8	10.4	53	<0.1	15.0	5.5	148	2.18	13.9	0.9	44.7	4.2	10	0.1	1.6	0.2	23	0.09	0.059
1546084	Soil		0.8	20.0	11.7	45	<0.1	16.6	7.2	162	2.19	9.9	1.1	19.9	6.3	8	<0.1	3.8	0.2	22	0.06	0.039
1546081	Soil		0.7	40.0	23.6	85	<0.1	31.5	14.4	218	3.47	22.2	2.5	6.0	18.6	15	0.1	22.8	0.5	15	0.06	0.042
1546078	Soil		0.7	18.3	11.2	51	<0.1	17.1	6.7	136	1.91	11.0	1.1	12.9	4.8	8	<0.1	2.7	0.2	26	0.07	0.046
1546099	Soil		0.6	17.4	11.1	44	<0.1	12.9	4.5	89	1.82	7.9	0.9	3.4	2.6	8	<0.1	0.9	0.2	22	0.07	0.049
1548419	Soil		0.8	5.7	9.4	29	<0.1	7.1	3.2	127	1.65	10.4	0.4	<0.5	2.4	5	<0.1	0.5	0.2	32	0.05	0.059
1548418	Soil		0.7	12.1	10.4	30	<0.1	11.1	4.1	74	1.65	6.9	0.8	2.0	0.3	6	<0.1	0.4	0.2	24	0.05	0.061
1548421	Soil		0.5	19.4	8.6	57	<0.1	17.4	7.8	167	1.88	9.9	0.7	1.9	4.4	9	0.1	0.7	0.1	20	0.09	0.057
1546086	Soil		0.7	20.4	11.3	48	0.1	16.1	6.1	138	1.97	10.2	0.9	2.0	5.4	8	<0.1	1.7	0.2	25	0.06	0.032
1546100	Soil		0.5	17.8	10.5	40	0.1	12.3	4.3	89	1.64	9.1	1.1	2.2	2.7	7	<0.1	1.0	0.2	24	0.07	0.049
1548425	Soil		0.7	17.2	8.8	46	<0.1	16.1	6.3	189	2.09	8.0	0.8	3.4	4.4	8	0.1	1.0	0.2	22	0.09	0.050
1548417	Soil		0.6	10.8	8.8	39	0.1	14.2	4.7	80	1.70	6.8	0.6	18.5	0.5	11	<0.1	0.5	0.2	22	0.10	0.053
1546087	Soil		0.8	17.2	9.5	41	<0.1	13.4	5.1	138	1.70	9.3	1.0	2.9	4.4	8	<0.1	1.9	0.2	21	0.06	0.035

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Project: MCQ
Report Date: September 06, 2017

CERTIFICATE OF ANALYSIS WHI17000676.1

	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
1545809	Soil	20	15	0.28	278	0.019	1	0.72	0.004	0.03	0.2	0.04	2.4	<0.1	<0.05	2	<0.5	<0.2
1545799	Soil	14	16	0.26	101	0.014	<1	0.90	0.003	0.04	0.2	0.02	1.7	<0.1	<0.05	2	<0.5	<0.2
1546093	Soil	22	17	0.27	142	0.015	<1	0.69	0.003	0.03	0.4	0.02	2.0	<0.1	<0.05	2	<0.5	<0.2
1546090	Soil	22	16	0.26	155	0.009	<1	0.90	0.003	0.03	0.2	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
1545810	Soil	17	12	0.21	168	0.016	<1	0.57	0.003	0.03	0.3	0.02	2.1	<0.1	<0.05	2	<0.5	<0.2
1545811	Soil	17	15	0.24	235	0.016	<1	0.67	0.003	0.03	0.4	0.03	2.1	<0.1	<0.05	2	<0.5	<0.2
1546083	Soil	27	13	0.22	83	0.009	<1	0.68	0.002	0.03	0.2	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
1546079	Soil	45	16	0.34	166	0.005	<1	0.83	0.003	0.04	<0.1	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
1546091	Soil	25	16	0.29	123	0.010	<1	0.89	0.003	0.03	0.2	0.03	1.6	<0.1	<0.05	3	<0.5	<0.2
1546095	Soil	17	15	0.24	116	0.010	<1	0.83	0.003	0.03	0.2	0.05	1.4	<0.1	<0.05	3	<0.5	<0.2
1546082	Soil	17	15	0.24	78	0.012	<1	0.87	0.002	0.03	0.2	0.03	1.5	<0.1	<0.05	2	<0.5	<0.2
1546076	Soil	17	17	0.24	134	0.011	<1	0.95	0.003	0.03	0.2	0.04	1.9	<0.1	<0.05	3	<0.5	<0.2
1546094	Soil	19	15	0.26	129	0.013	<1	0.79	0.003	0.03	0.2	0.05	1.7	<0.1	<0.05	2	<0.5	<0.2
1546096	Soil	20	16	0.27	183	0.012	<1	0.82	0.003	0.03	0.4	0.03	1.8	<0.1	<0.05	3	<0.5	<0.2
1546085	Soil	47	13	0.29	155	0.007	<1	0.69	0.004	0.05	0.1	0.02	1.9	<0.1	<0.05	2	<0.5	<0.2
1546080	Soil	28	15	0.25	156	0.009	<1	0.76	0.003	0.04	0.2	0.03	2.1	<0.1	<0.05	2	<0.5	<0.2
1546098	Soil	23	17	0.28	142	0.008	<1	0.92	0.003	0.04	0.2	0.05	1.6	<0.1	<0.05	3	<0.5	<0.2
1546097	Soil	17	14	0.26	86	0.010	<1	0.74	0.002	0.03	0.3	0.02	1.3	<0.1	<0.05	2	<0.5	<0.2
1546084	Soil	23	14	0.24	159	0.007	2	0.77	0.002	0.03	0.2	0.02	1.8	<0.1	<0.05	2	<0.5	<0.2
1546081	Soil	51	11	0.30	135	0.006	<1	0.83	0.003	0.05	<0.1	0.02	1.8	0.1	<0.05	3	<0.5	<0.2
1546078	Soil	18	21	0.31	132	0.011	1	0.92	0.003	0.03	0.2	0.03	1.9	<0.1	<0.05	3	<0.5	<0.2
1546099	Soil	18	14	0.26	161	0.007	<1	0.88	0.002	0.03	0.3	0.04	1.3	<0.1	<0.05	3	<0.5	<0.2
1548419	Soil	11	11	0.17	48	0.022	<1	0.63	0.003	0.03	0.2	<0.01	1.1	<0.1	<0.05	3	<0.5	<0.2
1548418	Soil	14	16	0.22	142	0.004	2	0.86	0.002	0.03	0.2	0.05	0.3	<0.1	<0.05	3	<0.5	<0.2
1548421	Soil	13	13	0.25	87	0.013	<1	0.77	0.002	0.03	0.2	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1546086	Soil	18	15	0.26	139	0.012	<1	0.90	0.003	0.04	0.3	0.03	1.7	<0.1	<0.05	3	<0.5	<0.2
1546100	Soil	21	16	0.28	213	0.008	<1	0.96	0.003	0.03	0.2	0.06	1.5	<0.1	<0.05	3	<0.5	<0.2
1548425	Soil	18	14	0.26	83	0.014	<1	0.79	0.002	0.03	0.3	0.06	1.4	<0.1	<0.05	2	<0.5	<0.2
1548417	Soil	13	17	0.24	115	0.006	<1	0.71	0.003	0.03	0.2	0.04	0.6	<0.1	<0.05	3	<0.5	<0.2
1546087	Soil	20	13	0.21	161	0.012	<1	0.75	0.002	0.03	0.3	0.03	1.7	<0.1	<0.05	3	<0.5	<0.2

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Project: MCQ
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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
1546101	Soil		0.7	14.8	10.6	40	<0.1	13.1	4.7	134	2.02	9.0	0.8	1.7	2.0	9	0.1	1.3	0.2	22	0.08	0.052
1548422	Soil		0.8	38.2	13.5	82	<0.1	33.5	13.9	462	3.30	7.0	1.6	3.5	13.5	12	0.2	2.5	0.3	18	0.07	0.041
1548416	Soil		0.8	7.8	8.9	37	<0.1	10.3	4.4	164	1.86	10.4	0.5	10.6	1.5	6	<0.1	0.6	0.2	29	0.06	0.040
1546077	Soil		0.8	14.0	10.1	36	<0.1	12.6	4.5	109	1.77	12.3	0.9	2.2	2.9	7	<0.1	2.6	0.2	27	0.06	0.053
1546102	Soil		0.8	14.9	10.6	48	<0.1	17.0	5.9	132	2.24	12.3	0.9	21.1	1.7	10	<0.1	1.4	0.2	26	0.09	0.063
1548424	Soil		0.8	21.3	9.8	54	<0.1	18.5	7.3	230	2.16	8.5	0.9	1.0	5.0	10	0.2	1.0	0.1	22	0.08	0.050
1548414	Soil		0.6	43.8	18.3	76	<0.1	49.8	13.7	336	3.12	10.4	1.5	3.1	13.9	13	0.1	0.6	0.3	21	0.12	0.047
1548415	Soil		0.8	12.6	9.4	37	<0.1	12.2	5.4	118	1.81	8.4	0.9	2.0	0.5	12	<0.1	0.5	0.2	24	0.13	0.051
1545791	Soil		0.8	20.8	8.0	52	<0.1	18.7	6.2	171	1.80	12.6	1.1	2.8	5.4	10	0.2	1.1	0.2	24	0.10	0.042
1545786	Soil		0.9	18.0	9.3	51	<0.1	19.1	7.5	177	2.38	11.6	0.8	1.0	5.8	8	0.1	1.3	0.2	26	0.05	0.024
1546106	Soil		0.6	10.3	10.0	38	0.1	10.9	3.4	62	1.80	8.6	0.8	1.7	1.0	8	0.1	1.0	0.2	20	0.06	0.044
1546103	Soil		0.8	13.0	10.9	41	<0.1	13.9	4.4	89	2.05	9.9	0.9	2.5	1.3	8	0.1	1.4	0.2	27	0.07	0.052
1545790	Soil		0.7	25.4	9.6	53	<0.1	20.6	7.3	200	2.06	11.1	1.4	4.6	5.5	11	0.1	1.4	0.2	24	0.10	0.040
1545788	Soil		0.8	23.0	10.1	51	<0.1	19.8	7.8	193	2.41	14.3	1.2	2.8	7.8	9	<0.1	2.1	0.2	21	0.06	0.036
1546108	Soil		0.7	18.4	11.6	42	0.2	15.0	4.1	76	2.46	15.3	1.1	2.4	0.8	10	0.2	1.0	0.2	28	0.06	0.069
1546104	Soil		1.0	13.3	10.2	47	<0.1	12.6	5.9	177	2.12	14.1	0.9	0.8	2.6	8	<0.1	1.7	0.2	24	0.07	0.044
1545792	Soil		0.9	20.2	9.7	49	<0.1	19.7	7.7	216	2.38	14.9	1.2	18.7	5.4	10	<0.1	1.2	0.2	31	0.08	0.045
1545787	Soil		0.8	24.1	10.6	56	<0.1	19.0	7.2	175	2.18	14.9	1.3	4.7	9.2	7	<0.1	1.8	0.2	21	0.04	0.020
1546109	Soil		0.5	13.7	11.3	38	0.2	11.1	3.6	67	1.73	7.1	0.9	3.0	1.3	9	<0.1	0.7	0.2	26	0.07	0.047
1546105	Soil		0.4	14.2	11.5	46	0.1	13.2	4.5	77	1.63	6.8	0.9	4.1	2.0	9	<0.1	1.0	0.2	24	0.06	0.042
1545797	Soil		0.6	15.9	6.4	46	<0.1	16.1	6.1	175	1.64	7.7	0.7	1.7	4.9	10	0.2	1.1	0.1	18	0.11	0.047
1545793	Soil		0.7	15.5	8.7	50	<0.1	18.7	6.0	157	1.69	19.7	0.7	2.8	6.0	11	0.2	1.4	0.2	20	0.11	0.052
1545789	Soil		1.0	18.4	9.7	58	<0.1	18.9	7.0	189	2.18	12.4	0.9	4.1	6.6	9	0.1	1.4	0.2	33	0.08	0.021
1546107	Soil		0.7	11.6	10.1	37	0.2	11.5	3.8	67	2.09	7.7	0.8	6.4	1.3	8	0.2	1.1	0.2	24	0.06	0.048
1548451	Soil		0.8	14.7	8.3	34	<0.1	11.5	4.6	150	1.92	8.9	1.0	2.1	2.3	7	0.1	0.6	0.2	27	0.06	0.048
1545783	Soil		0.6	19.8	8.6	47	<0.1	17.5	7.7	212	1.72	16.7	0.9	39.0	4.9	12	<0.1	1.1	0.2	20	0.10	0.048
1545803	Soil		0.7	23.3	7.9	50	<0.1	19.7	6.7	263	1.66	14.1	1.2	53.5	6.0	15	0.2	1.2	0.2	26	0.13	0.054
1545794	Soil		0.9	13.1	8.8	37	<0.1	12.2	4.8	118	1.80	9.9	1.0	13.8	3.0	9	<0.1	0.7	0.2	37	0.08	0.027
1548453	Soil		0.6	11.4	7.4	33	<0.1	9.1	3.2	94	1.43	8.3	0.6	3.4	0.2	7	<0.1	0.4	0.2	24	0.05	0.046
1545801	Soil		1.0	26.9	9.3	47	<0.1	20.1	6.9	194	1.81	15.0	1.5	2.8	6.3	12	<0.1	1.5	0.2	24	0.10	0.038

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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
1546101	Soil	16	15	0.25	161	0.007	<1	0.82	0.002	0.03	0.3	0.05	1.1	<0.1	<0.05	2	<0.5	<0.2
1548422	Soil	41	14	0.32	276	0.008	<1	0.75	0.003	0.05	0.2	0.10	2.3	<0.1	<0.05	2	<0.5	<0.2
1548416	Soil	13	14	0.23	53	0.016	<1	0.68	0.002	0.03	0.4	0.02	0.9	<0.1	<0.05	3	<0.5	<0.2
1546077	Soil	16	20	0.24	140	0.011	<1	0.86	0.002	0.04	0.3	0.03	2.0	<0.1	<0.05	3	<0.5	<0.2
1546102	Soil	19	17	0.30	226	0.008	<1	0.94	0.003	0.04	0.2	0.04	1.4	<0.1	<0.05	3	<0.5	<0.2
1548424	Soil	20	14	0.26	80	0.014	<1	0.78	0.002	0.03	0.3	0.03	1.5	<0.1	<0.05	2	<0.5	<0.2
1548414	Soil	40	57	0.75	84	0.010	<1	1.29	0.003	0.04	0.2	0.04	2.9	<0.1	<0.05	4	<0.5	<0.2
1548415	Soil	15	15	0.27	203	0.007	<1	0.92	0.002	0.03	0.2	0.04	0.6	<0.1	<0.05	3	<0.5	<0.2
1545791	Soil	18	15	0.26	139	0.017	<1	0.75	0.003	0.04	0.6	0.03	2.0	<0.1	<0.05	2	<0.5	<0.2
1545786	Soil	19	16	0.31	112	0.012	<1	0.89	0.002	0.04	0.2	0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
1546106	Soil	14	14	0.23	120	0.005	<1	0.82	0.002	0.03	0.3	0.04	0.9	<0.1	<0.05	3	<0.5	<0.2
1546103	Soil	18	18	0.27	150	0.007	<1	0.90	0.002	0.03	0.3	0.05	1.1	<0.1	<0.05	3	<0.5	<0.2
1545790	Soil	21	16	0.29	173	0.016	<1	0.86	0.003	0.04	0.2	0.07	2.1	<0.1	<0.05	2	<0.5	<0.2
1545788	Soil	28	15	0.34	128	0.012	<1	0.88	0.002	0.04	0.1	<0.01	1.6	<0.1	<0.05	2	<0.5	<0.2
1546108	Soil	17	17	0.24	194	0.005	1	1.00	0.003	0.04	0.2	0.06	0.9	0.1	<0.05	3	0.6	<0.2
1546104	Soil	17	16	0.26	109	0.009	<1	0.78	0.002	0.03	0.5	0.02	1.3	<0.1	<0.05	3	<0.5	<0.2
1545792	Soil	18	19	0.31	242	0.019	<1	0.97	0.004	0.05	0.3	0.03	2.4	<0.1	<0.05	2	<0.5	<0.2
1545787	Soil	25	15	0.34	126	0.011	<1	0.88	0.003	0.04	0.2	0.03	1.8	<0.1	<0.05	3	<0.5	<0.2
1546109	Soil	17	18	0.26	196	0.006	2	1.06	0.003	0.03	0.2	0.08	1.1	<0.1	<0.05	3	<0.5	<0.2
1546105	Soil	20	17	0.27	188	0.006	<1	0.98	0.003	0.03	0.2	0.07	1.5	0.1	<0.05	3	<0.5	<0.2
1545797	Soil	14	12	0.24	73	0.014	<1	0.59	0.002	0.04	0.2	<0.01	1.2	<0.1	<0.05	2	<0.5	<0.2
1545793	Soil	15	11	0.21	65	0.015	<1	0.65	0.003	0.04	0.5	0.02	1.2	<0.1	<0.05	2	<0.5	<0.2
1545789	Soil	18	21	0.36	166	0.023	1	1.09	0.005	0.05	0.3	0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
1546107	Soil	17	17	0.26	188	0.006	<1	0.91	0.003	0.03	0.1	0.05	1.1	0.1	<0.05	3	<0.5	<0.2
1548451	Soil	16	16	0.24	96	0.012	2	0.86	0.002	0.02	0.2	0.06	1.3	<0.1	<0.05	2	<0.5	<0.2
1545783	Soil	13	12	0.22	77	0.014	3	0.56	0.002	0.03	0.4	0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
1545803	Soil	17	14	0.25	130	0.016	2	0.61	0.002	0.05	0.4	0.02	2.3	<0.1	<0.05	2	<0.5	<0.2
1545794	Soil	16	18	0.29	230	0.020	3	0.96	0.004	0.03	0.2	0.03	2.1	<0.1	<0.05	3	<0.5	<0.2
1548453	Soil	12	13	0.20	64	0.009	3	0.69	0.002	0.02	0.2	0.03	0.5	<0.1	<0.05	3	<0.5	<0.2
1545801	Soil	19	16	0.28	232	0.017	3	0.73	0.003	0.05	0.2	0.04	2.8	<0.1	<0.05	2	<0.5	<0.2

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Project: MCQ
Report Date: September 06, 2017

CERTIFICATE OF ANALYSIS WHI17000676.1

		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
1545795	Soil		0.8	23.3	7.1	52	<0.1	20.1	7.4	174	1.79	9.4	1.1	2.1	5.6	9	0.1	1.5	0.1	24	0.08	0.036
1545796	Soil		0.9	28.9	9.5	62	<0.1	25.2	7.5	232	1.95	14.2	1.0	8.5	6.2	17	0.2	2.2	0.2	23	0.14	0.049
1545800	Soil		1.0	14.2	8.9	47	<0.1	16.2	7.1	193	1.67	15.2	0.8	62.3	5.0	8	0.1	1.3	0.2	26	0.06	0.035
1545802	Soil		0.7	20.7	7.4	41	<0.1	16.4	6.7	216	1.66	9.4	0.9	1.8	4.6	12	<0.1	1.0	0.2	27	0.12	0.045
1545805	Soil		0.7	14.9	7.6	48	<0.1	14.4	5.8	130	1.56	9.2	0.7	1.8	2.1	14	<0.1	0.7	0.2	25	0.11	0.041
1545815	Soil		0.7	27.0	8.5	50	<0.1	21.2	6.8	177	1.78	10.9	1.4	2.2	7.0	13	0.1	1.4	0.2	22	0.12	0.037
1545804	Soil		0.6	18.6	7.9	38	<0.1	16.7	5.3	116	1.65	8.6	0.9	3.3	2.5	12	<0.1	0.8	0.2	25	0.12	0.044
1545816	Soil		0.6	25.0	9.6	43	<0.1	22.3	8.2	177	2.19	10.5	1.1	2.6	6.7	11	<0.1	1.2	0.2	26	0.09	0.034
1545798	Soil		0.9	20.9	7.7	48	<0.1	18.7	6.1	164	1.75	11.2	1.1	3.0	4.7	13	0.2	1.0	0.2	29	0.13	0.047
1545784	Soil		0.9	26.5	9.0	51	<0.1	21.0	8.0	214	2.11	14.2	1.1	47.0	6.5	12	<0.1	1.6	0.2	28	0.09	0.043
1537637	Soil		0.5	18.9	9.2	40	<0.1	18.5	7.2	158	2.07	4.2	1.1	1.0	7.3	7	<0.1	0.5	0.2	20	0.05	0.027
1537652	Soil		0.8	34.9	11.7	60	<0.1	22.9	9.8	319	2.36	14.3	1.2	6.0	7.3	10	0.1	0.9	0.2	26	0.08	0.041
1537658	Soil		1.0	26.6	11.7	62	<0.1	23.6	8.5	231	2.22	7.1	1.6	2.0	8.4	12	0.1	0.8	0.2	21	0.10	0.033
1537654	Soil		0.5	27.0	8.7	48	<0.1	19.8	8.6	290	1.95	16.9	0.8	8.3	4.3	10	0.1	0.8	0.1	21	0.10	0.052
1537647	Soil		0.5	21.0	8.7	43	<0.1	18.5	8.0	212	1.82	8.8	1.0	1.9	6.7	9	<0.1	0.7	0.2	19	0.08	0.035
1537653	Soil		0.7	33.0	11.2	58	<0.1	19.4	8.0	269	2.36	8.8	1.5	15.2	10.4	11	0.1	0.9	0.3	25	0.07	0.034
1537656	Soil		0.8	20.9	9.4	43	<0.1	15.6	6.5	180	2.00	8.6	1.1	41.0	5.2	7	0.1	0.6	0.2	25	0.05	0.038
1537650	Soil		0.7	36.5	12.9	56	<0.1	27.5	12.4	289	2.53	12.6	1.2	27.2	7.3	9	0.1	0.8	0.2	21	0.06	0.043
1537644	Soil		0.8	33.2	13.3	61	<0.1	18.2	7.5	254	2.29	11.2	1.4	2.3	9.1	12	0.2	0.7	0.3	22	0.09	0.038
1537651	Soil		0.8	27.7	9.0	46	<0.1	18.3	7.5	266	1.88	11.9	1.1	26.3	6.3	9	<0.1	0.8	0.2	26	0.08	0.039
1537657	Soil		0.7	16.1	8.5	50	<0.1	15.2	5.3	138	1.63	5.0	1.0	8.6	2.8	15	<0.1	0.4	0.2	19	0.16	0.035
1537659	Soil		0.9	29.4	12.7	65	<0.1	25.3	10.8	283	2.45	7.5	1.6	0.8	9.1	10	0.1	0.9	0.2	24	0.07	0.034
1537643	Soil		0.5	21.6	7.3	38	<0.1	16.5	7.5	340	1.58	15.8	0.8	8.1	4.8	8	<0.1	0.8	0.1	20	0.09	0.049
1537648	Soil		0.5	24.9	7.7	42	<0.1	18.1	7.6	306	1.93	11.0	1.1	2.4	4.4	9	<0.1	0.7	0.1	29	0.08	0.039
1537655	Soil		0.3	75.6	22.4	71	<0.1	157.1	44.5	1090	4.94	20.3	0.6	0.7	6.4	12	<0.1	0.4	0.2	103	0.27	0.067
1537649	Soil		0.8	37.3	14.2	57	<0.1	27.8	12.1	277	2.61	12.4	1.3	18.4	7.6	9	0.1	0.8	0.2	22	0.05	0.037
1537634	Soil		0.7	16.5	9.5	43	<0.1	16.0	9.7	432	2.06	13.6	0.8	1.8	5.2	8	0.1	0.8	0.2	25	0.08	0.052
1537633	Soil		0.9	30.2	11.4	69	<0.1	25.8	10.3	308	2.47	10.9	1.5	50.8	8.4	10	0.2	0.9	0.2	26	0.06	0.032
1537641	Soil		0.7	28.1	10.6	46	<0.1	17.8	10.0	449	2.19	14.2	1.2	31.7	6.0	8	0.1	0.8	0.2	24	0.08	0.041
1537646	Soil		0.5	22.5	8.5	42	<0.1	17.1	7.8	248	1.64	17.7	0.8	8.8	4.8	11	<0.1	0.9	0.2	18	0.13	0.054

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Project: MCQ
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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
1545795	Soil		21	15	0.28	111	0.019	2	0.73	0.002	0.03	0.2	0.03	2.2	<0.1	<0.05	2	<0.5	<0.2
1545796	Soil		19	15	0.27	173	0.017	2	0.67	0.003	0.06	0.3	0.04	2.2	<0.1	<0.05	2	<0.5	<0.2
1545800	Soil		14	14	0.22	88	0.014	2	0.75	0.002	0.04	0.4	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
1545802	Soil		18	17	0.32	253	0.020	3	0.83	0.003	0.03	0.2	0.03	2.4	<0.1	<0.05	2	<0.5	<0.2
1545805	Soil		14	13	0.24	190	0.011	2	0.77	0.002	0.03	0.2	0.03	1.4	<0.1	<0.05	2	<0.5	<0.2
1545815	Soil		21	15	0.28	183	0.015	2	0.65	0.003	0.04	0.3	0.04	2.5	<0.1	<0.05	2	<0.5	<0.2
1545804	Soil		17	16	0.28	194	0.010	2	0.84	0.003	0.04	0.2	0.04	1.7	<0.1	<0.05	2	<0.5	<0.2
1545816	Soil		25	21	0.32	199	0.012	2	0.87	0.003	0.04	0.2	0.05	2.2	<0.1	<0.05	2	<0.5	<0.2
1545798	Soil		18	17	0.29	205	0.018	2	0.77	0.003	0.03	0.3	0.02	2.2	<0.1	<0.05	2	<0.5	<0.2
1545784	Soil		20	18	0.34	156	0.014	3	0.89	0.003	0.06	0.2	0.03	2.5	<0.1	<0.05	2	<0.5	<0.2
1537637	Soil		32	27	0.41	106	0.009	1	0.90	0.002	0.03	<0.1	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
1537652	Soil		23	18	0.40	189	0.017	1	0.97	0.002	0.04	0.3	0.04	2.7	<0.1	<0.05	3	<0.5	<0.2
1537658	Soil		29	16	0.32	108	0.013	2	0.74	0.002	0.03	0.2	0.06	2.1	<0.1	<0.05	2	<0.5	<0.2
1537654	Soil		17	14	0.28	87	0.019	2	0.73	0.002	0.03	0.3	0.02	2.1	<0.1	<0.05	2	<0.5	<0.2
1537647	Soil		21	16	0.31	95	0.013	2	0.80	0.002	0.03	0.2	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
1537653	Soil		28	17	0.43	240	0.015	1	1.00	0.003	0.04	0.2	0.04	2.6	<0.1	<0.05	3	<0.5	<0.2
1537656	Soil		25	17	0.29	99	0.012	1	0.86	0.002	0.03	0.2	0.03	1.8	<0.1	<0.05	2	<0.5	<0.2
1537650	Soil		30	18	0.30	103	0.012	2	0.81	0.002	0.03	0.2	0.05	2.1	<0.1	<0.05	2	<0.5	<0.2
1537644	Soil		26	16	0.42	154	0.015	<1	0.95	0.003	0.04	0.2	0.03	2.8	<0.1	<0.05	3	<0.5	<0.2
1537651	Soil		22	16	0.35	153	0.017	1	0.84	0.002	0.03	0.2	0.03	2.1	<0.1	<0.05	2	<0.5	<0.2
1537657	Soil		22	15	0.34	112	0.009	1	0.80	0.002	0.03	0.2	0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
1537659	Soil		29	19	0.43	129	0.012	1	0.93	0.002	0.03	0.2	0.05	2.3	<0.1	<0.05	3	<0.5	<0.2
1537643	Soil		16	12	0.25	89	0.019	2	0.62	0.002	0.03	0.3	0.03	1.7	<0.1	<0.05	2	<0.5	<0.2
1537648	Soil		19	18	0.33	206	0.026	1	0.96	0.003	0.03	0.2	0.05	2.6	<0.1	<0.05	2	<0.5	<0.2
1537655	Soil		18	313	3.39	85	0.088	<1	3.68	0.001	<0.01	0.1	0.01	13.0	<0.1	<0.05	10	<0.5	<0.2
1537649	Soil		29	20	0.32	115	0.010	1	0.78	0.002	0.03	0.2	0.04	2.1	<0.1	<0.05	2	<0.5	<0.2
1537634	Soil		15	16	0.28	56	0.018	2	0.76	0.002	0.03	0.2	0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
1537633	Soil		28	19	0.42	181	0.017	2	0.95	0.002	0.04	0.3	0.04	2.1	<0.1	<0.05	3	<0.5	<0.2
1537641	Soil		23	16	0.36	105	0.018	2	0.91	0.002	0.03	0.2	0.03	2.1	<0.1	<0.05	2	<0.5	<0.2
1537646	Soil		13	12	0.24	66	0.015	2	0.64	0.002	0.03	0.3	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2

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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
1537635	Soil		0.5	23.5	7.8	43	<0.1	13.6	8.0	269	1.79	11.0	0.9	4.2	4.7	9	<0.1	0.7	0.2	20	0.09	0.054
1537636	Soil		0.7	33.2	15.7	70	<0.1	32.5	14.0	267	2.67	7.9	1.5	4.2	9.2	11	0.1	0.4	0.3	22	0.09	0.039
1537638	Soil		0.7	26.8	11.3	47	<0.1	15.7	8.1	399	2.11	10.9	1.2	2.3	6.5	9	0.1	0.7	0.2	18	0.06	0.036
1537645	Soil		0.5	19.4	8.7	46	<0.1	19.0	10.3	336	1.92	14.4	0.8	5.4	4.7	11	0.1	0.9	0.1	19	0.12	0.058
1537628	Soil		0.6	26.9	10.0	50	<0.1	18.6	10.2	451	2.14	16.4	1.0	6.6	4.2	7	<0.1	1.1	0.2	24	0.06	0.037
1537632	Soil		1.1	38.4	16.0	60	<0.1	19.6	8.4	233	2.76	6.8	1.8	3.1	14.8	9	0.2	0.5	0.4	15	0.05	0.036
1537642	Soil		0.5	18.6	9.0	39	<0.1	15.9	10.0	402	1.74	14.8	0.9	11.8	3.8	7	<0.1	0.8	0.2	21	0.07	0.034
1537640	Soil		0.5	14.9	8.6	45	<0.1	15.5	8.7	313	1.84	15.0	0.8	18.1	4.4	9	<0.1	0.8	0.1	21	0.09	0.048
1537627	Soil		0.6	13.6	8.2	40	<0.1	13.0	8.0	308	1.77	12.2	0.7	2.0	3.8	6	<0.1	0.7	0.1	22	0.06	0.035
1537630	Soil		0.5	19.8	8.4	45	<0.1	15.9	9.3	339	1.60	12.0	1.0	2.5	2.8	8	<0.1	0.9	0.1	21	0.08	0.046
1537631	Soil		0.7	29.9	10.4	53	<0.1	18.5	10.1	294	1.96	13.2	1.0	5.8	5.8	9	0.1	0.9	0.2	21	0.07	0.043
1537639	Soil		0.7	27.3	11.2	50	<0.1	19.9	10.5	401	2.11	13.8	1.1	8.7	6.1	8	0.1	0.9	0.2	22	0.07	0.038
1547911	Soil		0.6	29.8	10.2	49	<0.1	24.5	9.7	362	1.96	12.5	1.0	13.8	5.8	9	0.1	0.8	0.2	20	0.08	0.048
1547924	Soil		0.6	24.0	9.4	49	<0.1	16.9	7.0	200	1.84	12.2	0.8	2.9	4.2	8	0.1	0.8	0.2	22	0.07	0.038
1547921	Soil		0.5	12.4	7.4	44	<0.1	12.6	5.9	156	1.47	10.3	1.2	2.8	4.3	9	<0.1	0.6	0.1	21	0.09	0.040
1537629	Soil		0.5	20.5	8.7	43	<0.1	17.4	10.4	436	1.80	14.1	0.8	3.4	4.5	9	0.1	0.7	0.2	19	0.10	0.064
1547910	Soil		0.4	25.5	9.3	43	<0.1	16.8	8.7	358	1.80	14.3	0.8	2.4	4.5	7	<0.1	0.8	0.1	19	0.07	0.033
1547918	Soil		0.6	29.8	10.9	67	<0.1	17.4	8.3	213	2.76	3.9	2.3	2.6	15.2	8	<0.1	0.5	0.3	13	0.04	0.032
1547922	Soil		0.8	10.5	8.4	52	<0.1	12.0	10.3	539	1.67	12.5	0.7	1.8	2.8	8	<0.1	0.5	0.1	29	0.07	0.040
1537626	Soil		0.8	17.5	9.5	55	<0.1	13.8	15.3	786	2.07	13.5	1.3	2.5	5.2	6	0.2	0.8	0.2	30	0.05	0.038
1547915	Soil		0.9	37.7	28.5	81	<0.1	25.0	8.8	156	3.17	1.9	2.5	1.6	19.9	15	0.2	0.4	0.4	8	0.07	0.036
1547923	Soil		0.6	11.4	8.5	34	<0.1	9.9	5.5	209	1.75	10.5	0.9	41.6	4.0	7	<0.1	0.6	0.1	26	0.07	0.053
1547920	Soil		0.5	25.7	8.9	47	<0.1	19.0	7.8	248	1.72	10.7	1.0	2.0	5.1	9	<0.1	0.8	0.1	19	0.09	0.052
1547917	Soil		0.4	19.8	7.9	36	<0.1	14.2	6.4	224	1.48	10.1	1.1	2.1	4.2	9	<0.1	0.6	0.1	22	0.08	0.039
1547916	Soil		0.5	22.7	9.4	43	<0.1	17.1	7.8	279	1.76	12.7	1.1	4.8	6.3	8	<0.1	0.7	0.2	23	0.08	0.036
1495045	Soil		0.8	28.7	14.6	61	<0.1	27.2	11.0	417	2.36	13.8	1.1	3.0	7.8	12	0.1	0.9	0.2	28	0.10	0.057
1547925	Soil		0.5	21.5	8.7	43	<0.1	16.4	6.7	189	1.63	11.7	0.8	26.5	5.0	8	<0.1	0.7	0.1	20	0.07	0.038
1547919	Soil		0.5	16.6	9.1	38	<0.1	17.1	7.9	247	1.79	10.3	1.1	3.8	4.1	8	<0.1	0.7	0.2	24	0.07	0.037
1495046	Soil		0.7	31.1	11.0	49	<0.1	19.9	9.3	323	1.94	13.2	1.0	3.7	6.9	7	<0.1	0.8	0.2	19	0.06	0.034
1495047	Soil		0.9	23.3	10.2	48	<0.1	16.4	10.1	322	2.12	12.9	1.3	2.7	5.4	8	<0.1	0.8	0.2	33	0.07	0.041

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Project: MCQ
Report Date: September 06, 2017

CERTIFICATE OF ANALYSIS WHI17000676.1

	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
1537635	Soil	17	13	0.26	76	0.015	2	0.77	0.002	0.03	0.2	0.03	1.9	<0.1	<0.05	2	<0.5	<0.2
1537636	Soil	29	26	0.47	198	0.008	3	1.07	0.002	0.04	<0.1	0.02	2.5	<0.1	<0.05	3	<0.5	<0.2
1537638	Soil	24	15	0.33	114	0.012	<1	0.85	0.002	0.03	0.2	0.02	2.0	<0.1	<0.05	2	<0.5	<0.2
1537645	Soil	15	13	0.24	86	0.015	<1	0.73	0.002	0.03	0.2	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1537628	Soil	16	15	0.25	143	0.016	1	0.87	0.002	0.03	0.3	0.02	2.2	<0.1	<0.05	2	0.7	<0.2
1537632	Soil	47	14	0.36	194	0.008	<1	0.96	0.002	0.03	0.2	0.03	2.0	<0.1	<0.05	3	<0.5	<0.2
1537642	Soil	16	13	0.25	155	0.015	1	0.70	0.003	0.03	0.3	0.02	2.1	<0.1	<0.05	2	<0.5	<0.2
1537640	Soil	15	12	0.23	70	0.016	<1	0.68	0.002	0.03	0.2	0.02	2.0	<0.1	<0.05	2	<0.5	<0.2
1537627	Soil	16	14	0.25	91	0.017	<1	0.77	0.002	0.02	0.2	0.02	1.9	<0.1	<0.05	2	<0.5	<0.2
1537630	Soil	20	14	0.23	72	0.016	<1	0.63	0.002	0.03	0.4	0.03	1.6	<0.1	<0.05	2	<0.5	<0.2
1537631	Soil	19	14	0.26	122	0.018	1	0.73	0.002	0.03	0.3	0.02	2.4	<0.1	<0.05	2	<0.5	<0.2
1537639	Soil	19	15	0.29	141	0.016	<1	0.86	0.002	0.03	0.2	0.03	2.3	<0.1	<0.05	2	<0.5	<0.2
1547911	Soil	19	15	0.29	96	0.014	<1	0.85	0.003	0.03	0.3	0.03	2.0	<0.1	<0.05	2	<0.5	<0.2
1547924	Soil	16	15	0.25	133	0.018	2	0.68	0.002	0.03	0.3	0.03	1.6	<0.1	<0.05	2	<0.5	<0.2
1547921	Soil	16	12	0.25	119	0.020	<1	0.68	0.003	0.03	0.2	0.02	1.9	<0.1	<0.05	2	<0.5	<0.2
1537629	Soil	17	13	0.25	75	0.016	1	0.74	0.003	0.03	0.3	0.04	2.6	<0.1	<0.05	2	<0.5	<0.2
1547910	Soil	16	13	0.25	118	0.018	2	0.66	0.003	0.03	0.2	0.02	2.5	<0.1	<0.05	2	<0.5	<0.2
1547918	Soil	26	13	0.42	180	0.007	<1	0.96	0.002	0.04	0.1	0.02	2.4	<0.1	<0.05	3	<0.5	<0.2
1547922	Soil	16	15	0.27	119	0.023	2	0.92	0.003	0.03	0.2	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2
1537626	Soil	15	17	0.26	104	0.022	<1	0.98	0.002	0.03	0.3	0.05	2.4	<0.1	<0.05	3	<0.5	<0.2
1547915	Soil	43	10	0.47	190	0.003	<1	1.14	0.002	0.03	<0.1	0.02	1.5	<0.1	<0.05	3	<0.5	<0.2
1547923	Soil	15	14	0.23	106	0.018	<1	0.80	0.002	0.03	0.3	0.04	1.8	<0.1	<0.05	2	<0.5	<0.2
1547920	Soil	19	16	0.30	118	0.016	<1	0.73	0.002	0.03	0.2	0.03	1.8	<0.1	<0.05	2	<0.5	<0.2
1547917	Soil	18	15	0.27	95	0.022	2	0.76	0.003	0.03	0.3	0.04	2.4	<0.1	<0.05	2	<0.5	<0.2
1547916	Soil	18	14	0.29	129	0.022	<1	0.84	0.003	0.03	0.2	0.05	2.8	<0.1	<0.05	2	0.5	<0.2
1495045	Soil	22	17	0.31	119	0.019	<1	0.79	0.002	0.04	0.5	0.02	2.0	<0.1	<0.05	2	<0.5	<0.2
1547925	Soil	15	13	0.26	115	0.018	<1	0.68	0.002	0.03	0.4	0.02	1.9	<0.1	<0.05	2	<0.5	<0.2
1547919	Soil	17	17	0.28	133	0.021	<1	0.89	0.003	0.03	0.3	0.03	2.4	<0.1	<0.05	2	<0.5	<0.2
1495046	Soil	21	13	0.27	208	0.012	<1	0.78	0.002	0.03	0.3	0.03	2.3	<0.1	<0.05	2	<0.5	<0.2
1495047	Soil	17	21	0.33	202	0.026	<1	1.11	0.003	0.04	0.2	0.03	3.0	<0.1	<0.05	3	0.7	<0.2

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Project: MCQ
Report Date: September 06, 2017

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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
1547907	Soil		0.5	22.5	7.8	38	<0.1	16.0	7.3	188	1.45	13.1	0.9	2.0	4.9	9	<0.1	0.7	0.1	18	0.09	0.044
1547914	Soil		0.6	27.6	11.7	47	<0.1	19.3	9.8	378	1.83	11.0	1.2	5.9	7.3	10	0.1	0.8	0.2	16	0.08	0.043
1478187	Soil		1.1	39.9	16.9	60	<0.1	27.0	10.9	307	2.40	12.7	1.3	3.4	9.0	10	<0.1	0.9	0.2	26	0.08	0.032
1495041	Soil		0.5	21.5	8.7	43	<0.1	16.1	9.6	395	1.75	13.8	1.0	4.0	4.5	9	<0.1	0.8	0.1	20	0.09	0.059
1547912	Soil		0.5	25.2	10.0	47	<0.1	22.1	8.7	323	1.71	13.1	1.2	35.8	6.2	10	0.1	0.8	0.1	24	0.10	0.048
1547913	Soil		0.9	22.3	11.5	64	<0.1	21.4	8.0	231	1.84	7.7	1.5	43.0	6.2	11	0.2	0.8	0.2	21	0.08	0.051
1548456	Soil		1.0	30.3	11.9	66	<0.1	25.2	10.3	327	2.52	7.5	1.1	2.7	7.8	11	0.2	1.1	0.3	24	0.08	0.045
1548460	Soil		1.0	30.7	10.1	73	<0.1	29.8	11.9	473	2.38	10.9	1.2	37.4	7.5	11	0.3	2.5	0.3	17	0.08	0.043
1547785	Soil		0.5	19.8	7.5	40	<0.1	16.5	7.6	249	1.70	15.4	0.6	3.0	4.3	7	<0.1	0.8	0.1	19	0.08	0.044
1547908	Soil		0.6	21.9	9.4	47	<0.1	16.6	8.7	299	1.81	14.6	0.9	0.6	4.8	10	0.2	0.8	0.1	19	0.11	0.050
1548461	Soil		0.8	27.0	7.5	56	<0.1	23.2	11.2	557	1.97	13.1	1.0	25.2	7.5	10	0.2	0.8	0.2	20	0.11	0.057
1548459	Soil		0.5	23.6	8.0	51	<0.1	16.6	7.5	218	1.63	11.7	0.6	3.9	4.0	11	0.1	0.7	0.1	17	0.10	0.057
1548454	Soil		1.0	9.8	8.8	39	<0.1	11.4	4.3	123	1.71	13.2	0.7	1.8	2.2	9	0.1	0.7	0.2	28	0.09	0.048
1547909	Soil		0.7	9.6	7.2	30	<0.1	9.0	4.9	158	1.58	8.4	0.7	19.6	4.1	5	<0.1	0.5	0.1	26	0.04	0.034
1547906	Soil		0.7	28.1	11.3	45	<0.1	19.4	8.8	251	2.10	7.5	1.3	27.5	7.7	8	<0.1	0.8	0.2	18	0.05	0.036
1547900	Soil		0.7	16.1	8.0	43	<0.1	13.6	6.7	258	1.58	9.6	0.9	0.6	3.6	8	0.1	0.7	0.1	24	0.07	0.040
1547904	Soil		0.6	22.3	8.0	39	<0.1	17.4	7.8	377	1.72	9.9	1.0	1.4	5.5	8	0.1	0.6	0.1	21	0.08	0.047
1548457	Soil		0.6	15.4	8.5	39	<0.1	10.9	4.5	135	1.68	8.8	0.9	<0.5	0.8	8	<0.1	0.5	0.1	25	0.07	0.048
1547897	Soil		0.7	12.1	8.5	33	<0.1	10.0	5.5	198	1.57	12.2	0.6	1.3	3.3	6	0.1	0.5	0.2	25	0.05	0.069
1547898	Soil		0.7	15.6	8.0	37	<0.1	11.0	6.3	191	1.68	11.9	1.2	9.0	4.4	5	<0.1	0.6	0.2	31	0.04	0.032
1547899	Soil		0.6	12.3	7.2	32	<0.1	10.6	6.1	230	1.53	8.5	0.7	1.8	1.1	6	0.1	0.4	0.1	25	0.06	0.049
1548455	Soil		0.7	12.9	6.6	41	<0.1	11.9	5.2	152	1.57	9.8	0.7	2.3	3.4	7	<0.1	0.6	0.1	22	0.07	0.046
1545871	Soil		0.5	12.5	8.3	39	<0.1	14.2	7.7	245	1.72	13.1	0.6	3.4	4.3	7	<0.1	0.6	0.1	21	0.07	0.045
1547903	Soil		0.5	15.1	7.6	41	<0.1	12.3	7.5	227	1.59	10.7	0.8	0.8	4.6	7	<0.1	0.6	0.1	21	0.08	0.045
1547902	Soil		0.7	21.0	8.1	43	<0.1	16.5	8.0	238	1.65	10.6	0.8	128.9	5.0	7	<0.1	0.8	0.1	22	0.08	0.039
1548452	Soil		0.8	19.9	9.7	46	<0.1	16.3	6.9	224	2.10	7.3	1.2	41.1	3.6	7	0.1	0.7	0.2	25	0.05	0.044
1545903	Soil		0.5	23.3	7.3	40	<0.1	17.9	7.9	299	1.70	13.9	0.7	2.3	4.4	9	0.2	0.8	0.1	17	0.10	0.063
1547905	Soil		0.7	10.3	7.0	36	<0.1	10.2	6.1	257	1.64	8.9	0.7	1.4	1.7	6	<0.1	0.4	0.1	26	0.07	0.052
1547901	Soil		0.9	19.9	10.1	56	<0.1	17.8	10.3	364	2.07	9.7	0.9	21.1	5.4	9	0.1	0.8	0.1	26	0.07	0.051
1548458	Soil		0.8	28.0	11.6	62	<0.1	20.2	9.8	240	2.15	9.0	1.8	8.2	8.5	11	0.1	0.9	0.2	19	0.08	0.039

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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
1547907	Soil		19	12	0.24	123	0.018	<1	0.64	0.002	0.03	0.3	0.03	2.3	<0.1	<0.05	2	<0.5	<0.2
1547914	Soil		25	12	0.31	132	0.014	2	0.72	0.002	0.03	0.2	0.04	2.4	<0.1	<0.05	2	<0.5	<0.2
1478187	Soil		28	18	0.37	287	0.013	<1	0.98	0.002	0.04	0.3	0.04	2.9	<0.1	<0.05	3	<0.5	<0.2
1495041	Soil		18	12	0.25	87	0.015	<1	0.73	0.002	0.03	0.2	0.03	2.2	<0.1	<0.05	2	<0.5	<0.2
1547912	Soil		19	17	0.31	109	0.018	1	0.73	0.002	0.04	0.3	0.05	2.5	<0.1	<0.05	2	<0.5	<0.2
1547913	Soil		23	16	0.30	103	0.015	1	0.78	0.002	0.03	0.3	0.03	2.1	<0.1	<0.05	2	<0.5	<0.2
1548456	Soil		31	18	0.39	282	0.015	3	0.84	0.002	0.04	0.2	0.03	2.0	<0.1	<0.05	2	<0.5	<0.2
1548460	Soil		35	16	0.32	191	0.008	2	0.68	0.002	0.04	0.1	0.04	2.1	<0.1	<0.05	2	<0.5	<0.2
1547785	Soil		13	12	0.25	72	0.016	2	0.74	0.002	0.02	0.2	0.02	1.5	<0.1	<0.05	1	<0.5	<0.2
1547908	Soil		16	12	0.24	87	0.017	2	0.66	0.002	0.03	0.2	0.01	2.0	<0.1	<0.05	2	<0.5	<0.2
1548461	Soil		21	16	0.49	99	0.016	2	0.86	0.002	0.03	0.1	0.03	2.1	<0.1	<0.05	2	<0.5	<0.2
1548459	Soil		11	11	0.24	68	0.013	2	0.55	0.002	0.03	0.2	0.01	1.4	<0.1	<0.05	1	<0.5	<0.2
1548454	Soil		12	13	0.23	76	0.016	2	0.70	0.002	0.03	0.3	0.02	1.3	<0.1	<0.05	2	<0.5	<0.2
1547909	Soil		15	14	0.25	57	0.017	3	0.73	0.002	0.02	0.3	0.03	1.2	<0.1	<0.05	2	<0.5	<0.2
1547906	Soil		26	13	0.33	124	0.012	1	0.78	0.002	0.03	0.2	0.02	1.8	<0.1	<0.05	2	<0.5	<0.2
1547900	Soil		15	14	0.26	74	0.018	2	0.70	0.002	0.03	0.3	0.02	1.7	<0.1	<0.05	2	<0.5	<0.2
1547904	Soil		19	14	0.27	117	0.017	2	0.73	0.002	0.03	0.2	0.02	1.8	<0.1	<0.05	2	<0.5	<0.2
1548457	Soil		14	15	0.24	107	0.013	1	0.81	0.002	0.02	0.1	0.04	1.3	<0.1	<0.05	2	<0.5	<0.2
1547897	Soil		13	13	0.22	61	0.017	1	0.70	0.002	0.03	0.4	0.03	1.3	<0.1	<0.05	2	<0.5	<0.2
1547898	Soil		14	17	0.27	106	0.025	2	0.94	0.003	0.03	0.2	0.03	2.6	<0.1	<0.05	2	<0.5	<0.2
1547899	Soil		14	15	0.25	80	0.014	2	0.74	0.002	0.02	0.3	0.03	1.2	<0.1	<0.05	2	<0.5	<0.2
1548455	Soil		13	14	0.27	80	0.015	2	0.75	0.003	0.03	0.2	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1545871	Soil		13	13	0.24	50	0.016	<1	0.74	0.002	0.03	0.2	0.02	1.3	<0.1	<0.05	2	<0.5	<0.2
1547903	Soil		14	14	0.23	95	0.021	1	0.76	0.002	0.03	0.3	0.03	1.9	<0.1	<0.05	2	<0.5	<0.2
1547902	Soil		16	13	0.26	93	0.019	1	0.65	0.002	0.03	0.2	0.04	1.7	<0.1	<0.05	2	<0.5	<0.2
1548452	Soil		25	16	0.30	107	0.012	1	0.84	0.002	0.03	0.2	0.03	1.4	<0.1	<0.05	2	<0.5	<0.2
1545903	Soil		14	11	0.24	70	0.016	<1	0.61	0.002	0.03	0.2	0.03	1.4	<0.1	<0.05	1	<0.5	<0.2
1547905	Soil		12	15	0.26	96	0.016	2	0.84	0.003	0.02	0.2	0.02	1.2	<0.1	<0.05	2	<0.5	<0.2
1547901	Soil		16	16	0.31	81	0.018	1	0.85	0.002	0.04	0.4	0.04	1.7	<0.1	<0.05	2	<0.5	<0.2
1548458	Soil		31	13	0.33	282	0.013	<1	0.73	0.002	0.03	0.2	0.03	1.8	<0.1	<0.05	2	<0.5	<0.2

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Box 213
Dawson City Yukon Y0B 1G0 Canada

Project: MCQ
Report Date: September 06, 2017

CERTIFICATE OF ANALYSIS WHI17000676.1

		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
1537537	Soil		0.8	13.4	8.6	34	<0.1	10.5	3.9	90	1.56	9.6	0.8	2.7	1.6	7	<0.1	1.7	0.2	26	0.06	0.039
1537540	Soil		0.9	21.2	10.4	46	<0.1	17.1	6.3	157	1.88	14.5	1.4	49.5	6.6	11	<0.1	2.3	0.2	26	0.11	0.042
1537547	Soil		0.7	14.5	10.3	43	<0.1	14.4	6.0	116	1.98	10.2	1.1	39.7	4.4	9	<0.1	2.9	0.2	21	0.07	0.049
1537548	Soil		0.8	14.8	10.6	45	0.1	16.5	8.1	148	2.37	10.6	1.1	80.4	5.4	10	<0.1	2.2	0.2	23	0.09	0.051
1537570	Soil		0.6	21.0	8.1	47	<0.1	16.4	6.4	159	1.82	8.9	0.8	0.6	4.6	9	<0.1	0.9	0.1	22	0.09	0.043
1537539	Soil		1.2	33.3	18.8	78	<0.1	21.0	8.0	133	2.95	19.2	1.9	3.8	14.3	17	0.1	3.5	0.3	15	0.07	0.043
1537543	Soil		0.7	17.9	11.6	55	0.1	16.2	7.7	185	2.38	9.3	1.0	31.2	3.5	8	<0.1	2.7	0.2	20	0.06	0.045
1537546	Soil		0.6	15.1	11.4	42	0.1	15.1	6.3	117	2.23	9.3	1.0	3.0	3.0	7	<0.1	2.7	0.2	20	0.05	0.059
1537566	Soil		1.0	23.7	9.6	50	<0.1	20.9	7.3	252	2.41	16.2	1.0	2.4	4.0	11	0.1	1.1	0.1	27	0.10	0.065
1537569	Soil		0.8	20.8	8.8	46	<0.1	16.4	8.3	247	1.86	9.6	0.9	1.5	3.5	12	<0.1	0.8	0.1	25	0.11	0.041
1537541	Soil		0.9	21.4	13.0	69	<0.1	18.1	6.8	154	2.27	12.5	1.3	2.5	8.6	9	<0.1	3.4	0.2	22	0.07	0.038
1537544	Soil		1.1	25.9	14.3	63	<0.1	23.0	9.3	153	2.51	13.4	2.0	2.7	9.7	9	<0.1	5.7	0.3	16	0.05	0.039
1537568	Soil		0.7	16.2	8.6	62	<0.1	17.9	7.2	182	1.80	12.3	0.7	1.4	4.8	13	0.2	1.0	0.2	21	0.13	0.068
1537567	Soil		0.7	14.9	8.3	42	<0.1	14.5	5.7	141	1.62	10.7	0.8	1.9	3.9	12	0.1	0.9	0.1	24	0.12	0.055
1537542	Soil		0.7	15.4	10.2	47	<0.1	14.4	5.7	118	1.79	8.1	0.9	3.2	6.3	9	<0.1	2.1	0.2	19	0.07	0.039
1537545	Soil		0.8	24.6	16.4	65	<0.1	23.5	10.2	185	2.41	9.1	1.6	3.5	11.7	10	<0.1	7.5	0.3	9	0.04	0.036
1537550	Soil		0.7	23.5	13.4	54	<0.1	19.3	9.5	194	2.29	9.3	1.3	3.0	8.2	11	<0.1	3.1	0.2	19	0.08	0.038
1537554	Soil		1.0	32.9	13.8	85	<0.1	35.9	12.6	215	2.79	36.4	1.4	6.0	9.2	15	0.2	2.1	0.3	17	0.07	0.036
1537555	Soil		0.7	19.3	10.6	54	<0.1	16.8	6.9	141	1.90	12.2	1.1	2.3	6.8	11	0.1	1.2	0.2	19	0.09	0.042
1537558	Soil		0.6	18.5	11.2	47	<0.1	13.8	5.1	110	1.77	9.8	1.0	2.8	4.7	10	0.1	0.8	0.2	19	0.09	0.044
1537549	Soil		0.8	23.4	13.9	61	<0.1	21.0	8.6	192	2.18	9.4	1.3	7.0	8.0	11	<0.1	3.0	0.2	16	0.06	0.039
1537552	Soil		0.9	19.4	11.1	48	<0.1	16.2	7.3	136	1.83	10.6	1.0	1.4	4.3	11	0.1	1.6	0.2	23	0.08	0.041
1537556	Soil		0.7	20.1	9.3	54	<0.1	16.8	6.4	143	1.87	11.2	1.0	13.5	6.2	12	0.1	1.0	0.2	20	0.12	0.048
1537559	Soil		0.6	18.6	9.5	45	<0.1	15.5	5.8	110	1.41	11.1	1.0	3.6	4.2	13	0.1	0.7	0.2	23	0.12	0.050
1537538	Soil		0.8	15.6	13.3	62	0.1	18.0	6.7	188	1.87	24.6	0.7	4.9	4.9	9	0.1	3.4	0.2	24	0.06	0.046
1537551	Soil		0.8	21.4	11.7	56	<0.1	19.9	10.6	206	2.37	10.9	1.0	13.6	6.5	12	<0.1	3.4	0.2	18	0.07	0.044
1537553	Soil		0.7	21.8	9.1	46	<0.1	18.2	6.6	165	1.59	12.9	0.9	41.6	5.2	13	<0.1	0.9	0.2	21	0.13	0.051
1537557	Soil		1.0	38.5	16.7	79	<0.1	31.0	11.6	345	3.01	18.3	1.7	4.3	10.1	14	0.3	1.6	0.3	23	0.10	0.050
1537565	Soil		0.6	17.4	8.0	40	<0.1	12.6	4.6	104	1.59	8.5	0.8	41.4	3.5	10	<0.1	0.7	0.1	24	0.09	0.047
1537564	Soil		0.8	22.7	9.8	57	<0.1	17.6	6.9	202	1.98	11.9	1.0	30.2	4.9	12	<0.1	1.1	0.2	24	0.11	0.050

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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
1537537	Soil	16	14	0.21	116	0.009	2	0.76	0.002	0.03	0.2	0.02	1.2	<0.1	<0.05	2	<0.5	<0.2
1537540	Soil	22	15	0.24	239	0.015	1	0.73	0.003	0.04	0.3	0.03	2.2	<0.1	<0.05	2	<0.5	<0.2
1537547	Soil	23	16	0.24	146	0.008	1	0.73	0.002	0.03	0.3	0.04	1.7	<0.1	<0.05	2	<0.5	<0.2
1537548	Soil	22	15	0.24	149	0.009	<1	0.75	0.002	0.03	0.4	0.03	1.7	<0.1	<0.05	2	<0.5	<0.2
1537570	Soil	17	14	0.25	147	0.012	<1	0.68	0.003	0.03	0.2	0.04	1.6	<0.1	<0.05	2	<0.5	<0.2
1537539	Soil	57	12	0.30	220	0.004	1	0.83	0.003	0.06	<0.1	0.01	1.6	<0.1	<0.05	2	<0.5	<0.2
1537543	Soil	25	13	0.25	119	0.007	1	0.72	0.002	0.04	0.2	0.03	1.3	<0.1	<0.05	2	<0.5	<0.2
1537546	Soil	25	13	0.20	103	0.006	1	0.73	0.002	0.03	0.2	0.02	1.3	<0.1	<0.05	2	<0.5	<0.2
1537566	Soil	16	16	0.29	351	0.013	1	0.80	0.003	0.03	0.2	0.06	2.0	<0.1	<0.05	2	0.6	<0.2
1537569	Soil	16	15	0.27	298	0.014	2	0.82	0.003	0.03	0.1	0.03	2.0	<0.1	<0.05	2	<0.5	<0.2
1537541	Soil	30	16	0.30	163	0.007	<1	0.89	0.002	0.04	0.2	0.03	2.1	<0.1	<0.05	2	<0.5	<0.2
1537544	Soil	41	11	0.16	143	0.005	1	0.59	0.003	0.05	0.1	0.02	1.9	<0.1	<0.05	2	<0.5	<0.2
1537568	Soil	15	14	0.26	115	0.014	2	0.74	0.002	0.03	0.3	0.03	1.5	<0.1	<0.05	2	<0.5	<0.2
1537567	Soil	15	13	0.23	219	0.014	<1	0.74	0.003	0.03	0.5	0.03	1.7	<0.1	<0.05	2	<0.5	<0.2
1537542	Soil	24	15	0.27	107	0.008	<1	0.71	0.002	0.03	0.3	0.03	1.4	<0.1	<0.05	2	<0.5	<0.2
1537545	Soil	55	8	0.10	133	0.002	<1	0.41	0.002	0.05	0.1	0.02	1.7	<0.1	<0.05	1	0.7	<0.2
1537550	Soil	32	13	0.19	208	0.005	<1	0.67	0.002	0.04	0.2	0.04	2.0	<0.1	<0.05	2	<0.5	<0.2
1537554	Soil	38	16	0.28	216	0.006	<1	0.83	0.003	0.05	0.2	0.03	2.4	<0.1	<0.05	2	<0.5	<0.2
1537555	Soil	25	15	0.29	167	0.011	1	0.79	0.002	0.03	0.3	0.04	1.6	<0.1	<0.05	2	<0.5	<0.2
1537558	Soil	22	14	0.29	154	0.011	<1	0.77	0.002	0.03	0.3	0.04	1.6	<0.1	<0.05	2	<0.5	<0.2
1537549	Soil	33	12	0.19	160	0.005	<1	0.63	0.002	0.04	0.2	0.04	1.9	<0.1	<0.05	2	<0.5	<0.2
1537552	Soil	19	15	0.24	182	0.010	1	0.75	0.003	0.03	0.3	0.04	2.2	<0.1	<0.05	2	<0.5	<0.2
1537556	Soil	21	15	0.29	185	0.014	<1	0.76	0.003	0.03	0.2	0.04	1.7	<0.1	<0.05	2	<0.5	<0.2
1537559	Soil	17	16	0.26	236	0.013	<1	0.72	0.003	0.03	0.3	0.05	2.1	<0.1	<0.05	2	<0.5	<0.2
1537538	Soil	18	17	0.23	95	0.010	<1	0.77	0.003	0.04	0.2	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1537551	Soil	26	13	0.23	151	0.007	1	0.63	0.002	0.03	0.3	0.03	1.9	<0.1	<0.05	2	<0.5	<0.2
1537553	Soil	16	13	0.24	205	0.016	<1	0.58	0.003	0.03	0.3	0.05	1.9	<0.1	<0.05	2	<0.5	<0.2
1537557	Soil	32	20	0.41	290	0.011	<1	1.03	0.004	0.05	0.2	0.06	2.4	<0.1	<0.05	3	<0.5	<0.2
1537565	Soil	17	15	0.23	229	0.014	<1	0.72	0.002	0.03	0.4	0.04	1.8	<0.1	<0.05	2	<0.5	<0.2
1537564	Soil	17	14	0.26	173	0.014	<1	0.76	0.003	0.04	0.2	0.03	2.3	<0.1	<0.05	2	<0.5	<0.2

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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
1537560	Soil		0.8	14.3	9.4	47	<0.1	14.9	5.8	176	1.91	13.3	0.7	38.2	4.2	10	<0.1	1.1	0.2	23	0.10	0.057
1537561	Soil		0.7	26.4	11.4	52	<0.1	21.0	8.1	192	2.44	13.2	1.1	3.9	6.5	7	0.1	1.6	0.2	23	0.06	0.039
1545867	Soil		0.4	21.6	8.2	40	<0.1	15.5	6.6	290	1.56	13.3	0.7	12.0	4.3	8	<0.1	0.7	0.1	16	0.09	0.044
1545869	Soil		0.5	18.6	7.5	46	<0.1	16.1	7.0	221	1.62	13.0	0.6	6.4	4.4	10	0.2	0.7	0.1	17	0.10	0.056
1545873	Soil		0.6	24.2	8.4	51	<0.1	14.7	8.4	300	1.76	10.4	0.8	2.4	4.2	8	0.1	0.6	0.1	25	0.07	0.042
1537563	Soil		0.6	14.5	8.1	43	0.1	12.6	4.4	98	1.57	8.7	0.7	68.8	1.8	9	<0.1	0.7	0.1	23	0.09	0.047
1545901	Soil		0.5	24.3	9.5	53	<0.1	21.7	8.3	349	1.95	7.7	0.7	2.3	6.1	8	0.2	0.6	0.1	19	0.08	0.039
1545864	Soil		0.7	14.3	8.3	36	<0.1	11.8	5.3	160	1.61	10.1	0.8	2.2	2.9	7	<0.1	0.6	0.1	26	0.06	0.041
1545902	Soil		0.8	27.5	7.7	45	<0.1	16.4	7.4	172	1.61	10.8	1.1	1.0	4.9	9	0.2	0.8	0.1	19	0.10	0.053
1537562	Soil		0.8	15.2	9.9	35	0.1	12.7	4.7	99	2.01	11.9	0.9	43.1	1.4	9	<0.1	0.8	0.2	25	0.09	0.054
1545872	Soil		0.7	10.9	8.7	37	<0.1	12.5	6.6	213	1.68	14.0	0.5	15.9	4.7	5	0.1	0.7	0.1	24	0.04	0.028
1545868	Soil		0.6	14.2	8.4	43	<0.1	12.8	9.3	315	1.74	13.8	0.5	1.0	3.6	6	<0.1	0.7	0.1	19	0.07	0.048
1545866	Soil		0.7	7.7	7.8	27	<0.1	8.2	4.2	146	1.60	9.1	0.5	1.3	2.3	5	<0.1	0.4	0.1	23	0.05	0.052
1545865	Soil		0.6	24.4	8.8	39	<0.1	16.0	7.7	341	1.83	11.3	1.3	2.1	5.8	7	<0.1	0.8	0.1	28	0.07	0.035
1548442	Soil		0.7	11.4	7.9	33	<0.1	9.4	2.9	98	1.57	11.0	0.6	69.9	0.6	6	<0.1	0.7	0.1	24	0.06	0.043
1548443	Soil		0.6	16.7	7.4	35	<0.1	11.1	4.4	125	1.55	9.7	0.7	3.7	1.0	8	<0.1	0.6	0.1	23	0.08	0.050
1545863	Soil		0.4	16.6	7.0	36	<0.1	13.9	8.3	273	1.54	10.3	0.7	1.2	4.2	7	0.1	0.7	<0.1	18	0.07	0.043
1548429	Soil		0.6	11.0	8.3	34	<0.1	10.8	4.1	161	1.67	10.6	0.7	33.6	1.5	8	<0.1	0.6	0.1	22	0.09	0.045
1548468	Soil		0.7	37.3	12.6	65	<0.1	75.5	19.3	461	3.04	14.3	1.3	3.8	8.8	9	0.2	1.2	0.2	35	0.07	0.045
1548470	Soil		0.8	33.4	15.4	67	<0.1	33.3	10.7	271	2.95	6.2	1.7	42.0	7.4	9	0.1	0.7	0.3	19	0.07	0.046
1548428	Soil		0.6	16.2	8.0	45	<0.1	14.1	7.1	240	1.74	10.8	0.8	2.4	2.3	8	<0.1	0.6	0.1	24	0.10	0.059
1548433	Soil		1.0	32.1	11.8	73	<0.1	25.4	11.9	372	2.48	8.4	1.2	2.8	7.0	11	0.3	0.8	0.2	31	0.09	0.056
1548469	Soil		0.8	48.3	18.5	83	<0.1	41.2	14.3	336	3.80	3.8	2.6	6.2	16.0	11	0.2	0.5	0.4	18	0.07	0.037
1548432	Soil		0.6	14.4	7.8	35	<0.1	11.8	5.4	180	1.77	11.6	0.7	5.5	1.4	8	<0.1	0.6	0.2	26	0.10	0.060
1548435	Soil		0.7	32.6	9.6	62	<0.1	22.2	8.9	277	2.09	14.1	0.9	6.1	5.2	9	0.2	0.8	0.2	22	0.11	0.057
1548464	Soil		0.9	25.3	12.6	56	<0.1	27.5	10.5	374	2.24	9.9	1.2	14.2	6.1	8	<0.1	0.9	0.2	22	0.05	0.034
1548465	Soil		0.8	34.6	14.8	58	<0.1	25.4	9.3	325	2.81	10.1	1.5	3.6	10.2	11	0.1	0.6	0.3	20	0.11	0.039
1548467	Soil		0.7	25.2	11.5	59	<0.1	23.7	11.0	353	2.36	9.3	1.2	4.6	8.1	10	0.1	0.8	0.2	22	0.10	0.052
1548463	Soil		1.4	45.9	18.3	75	<0.1	37.2	16.1	651	3.37	5.0	2.3	2.7	14.8	9	0.3	1.5	0.4	12	0.04	0.045
1548450	Soil		0.6	17.1	7.9	43	<0.1	11.8	5.3	224	1.81	10.4	1.0	2.2	1.7	8	<0.1	0.5	0.2	28	0.08	0.057

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Project: MCQ
Report Date: September 06, 2017

CERTIFICATE OF ANALYSIS WHI17000676.1

		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
1537560	Soil		14	14	0.24	82	0.015	<1	0.64	0.005	0.03	0.4	0.03	1.4	<0.1	<0.05	2	0.7	<0.2
1537561	Soil		24	18	0.30	120	0.011	<1	0.75	0.003	0.04	0.2	0.03	1.8	<0.1	<0.05	2	<0.5	<0.2
1545867	Soil		12	10	0.21	92	0.015	<1	0.58	0.003	0.02	0.1	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1545869	Soil		13	11	0.23	53	0.015	1	0.69	0.002	0.02	0.2	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
1545873	Soil		13	16	0.27	83	0.021	<1	1.04	0.003	0.03	0.3	0.03	2.1	<0.1	<0.05	2	<0.5	<0.2
1537563	Soil		15	14	0.25	111	0.011	<1	0.75	0.003	0.03	0.3	0.03	1.3	<0.1	<0.05	2	<0.5	<0.2
1545901	Soil		17	19	0.34	64	0.016	<1	0.89	0.002	0.03	0.2	0.03	1.8	<0.1	<0.05	2	<0.5	<0.2
1545864	Soil		15	15	0.22	81	0.020	<1	0.79	0.002	0.03	0.2	0.03	2.1	<0.1	<0.05	3	<0.5	<0.2
1545902	Soil		15	12	0.25	92	0.017	2	0.68	0.003	0.03	0.2	0.02	2.0	<0.1	<0.05	2	<0.5	<0.2
1537562	Soil		16	15	0.25	132	0.009	<1	0.82	0.003	0.03	0.4	0.04	1.4	<0.1	<0.05	2	<0.5	<0.2
1545872	Soil		13	12	0.22	65	0.020	<1	0.66	0.002	0.02	0.3	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1545868	Soil		12	11	0.21	51	0.014	<1	0.67	0.002	0.02	0.2	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1545866	Soil		12	15	0.20	52	0.018	2	0.79	0.002	0.03	0.4	0.04	1.1	<0.1	<0.05	3	<0.5	<0.2
1545865	Soil		16	17	0.30	121	0.023	<1	1.06	0.003	0.03	0.3	0.07	2.8	<0.1	<0.05	2	0.5	<0.2
1548442	Soil		11	13	0.20	48	0.012	<1	0.75	0.002	0.02	0.3	0.02	1.0	<0.1	<0.05	3	<0.5	<0.2
1548443	Soil		13	13	0.22	77	0.014	1	0.71	0.002	0.02	0.3	0.03	1.2	<0.1	<0.05	2	<0.5	<0.2
1545863	Soil		13	11	0.22	67	0.015	<1	0.65	0.002	0.02	0.2	0.04	1.7	<0.1	<0.05	2	<0.5	<0.2
1548429	Soil		13	14	0.22	73	0.016	<1	0.69	0.002	0.02	0.4	0.03	1.1	<0.1	<0.05	2	<0.5	<0.2
1548468	Soil		37	103	0.98	160	0.010	2	1.39	0.002	0.03	0.1	0.02	4.5	<0.1	<0.05	4	<0.5	<0.2
1548470	Soil		37	16	0.34	123	0.008	2	0.91	0.002	0.04	0.1	0.02	1.6	<0.1	<0.05	3	<0.5	<0.2
1548428	Soil		14	15	0.27	100	0.016	1	0.81	0.003	0.03	0.3	0.03	1.7	<0.1	<0.05	2	<0.5	<0.2
1548433	Soil		26	20	0.48	141	0.018	2	1.15	0.005	0.04	0.3	0.04	2.3	<0.1	<0.05	3	<0.5	<0.2
1548469	Soil		52	19	0.45	208	0.007	<1	1.10	0.003	0.04	<0.1	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2
1548432	Soil		14	15	0.24	80	0.014	2	0.90	0.003	0.03	0.4	0.05	1.3	<0.1	<0.05	2	<0.5	<0.2
1548435	Soil		18	15	0.31	166	0.014	2	0.85	0.002	0.04	0.2	0.03	2.3	<0.1	<0.05	2	<0.5	<0.2
1548464	Soil		26	16	0.24	181	0.008	1	0.79	0.002	0.03	0.2	0.05	1.8	<0.1	<0.05	2	<0.5	<0.2
1548465	Soil		30	16	0.40	208	0.011	1	1.00	0.003	0.04	0.1	0.03	1.9	<0.1	<0.05	3	<0.5	<0.2
1548467	Soil		25	14	0.31	124	0.011	<1	0.82	0.002	0.04	0.2	0.02	1.8	<0.1	<0.05	2	<0.5	<0.2
1548463	Soil		50	12	0.44	182	0.003	<1	1.12	0.003	0.05	<0.1	0.02	1.9	0.1	<0.05	3	<0.5	<0.2
1548450	Soil		14	17	0.28	148	0.014	2	0.91	0.003	0.03	0.3	0.03	2.0	<0.1	<0.05	3	<0.5	<0.2

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Project: MCQ
Report Date: September 06, 2017

CERTIFICATE OF ANALYSIS WHI17000676.1

		Method	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
1548436	Soil		0.7	10.8	8.8	31	<0.1	10.0	4.0	143	1.50	11.0	0.6	6.9	0.7	6	<0.1	0.6	0.2	29	0.07	0.049
1548471	Soil		0.6	33.7	13.7	56	<0.1	21.8	9.8	347	2.20	9.6	1.2	2.2	7.3	9	0.1	0.7	0.2	20	0.10	0.053
1548462	Soil		2.7	54.5	21.6	91	<0.1	55.5	22.8	621	4.12	12.1	2.3	3.4	10.3	11	0.2	2.5	0.3	24	0.09	0.051
1548466	Soil		0.5	17.4	7.6	39	<0.1	15.5	5.4	167	1.77	11.3	0.6	1.9	2.3	10	<0.1	0.5	0.1	22	0.12	0.048
1545875	Soil		0.6	10.1	7.5	47	<0.1	11.0	6.5	239	1.72	10.4	0.6	2.3	2.7	7	0.1	0.5	0.1	22	0.09	0.054
1545909	Soil		0.5	13.3	7.8	46	<0.1	15.8	9.3	337	1.81	12.7	0.5	1.1	4.1	9	0.2	0.7	0.1	17	0.11	0.061
1545908	Soil		0.5	11.9	7.7	41	<0.1	14.5	8.4	326	1.77	11.8	0.6	14.6	3.9	8	0.1	0.6	0.1	21	0.10	0.054
1545910	Soil		0.5	17.2	7.6	43	<0.1	14.3	8.6	462	1.84	13.2	0.5	0.9	3.7	9	0.1	0.7	0.1	18	0.11	0.065
1545911	Soil		0.6	17.2	7.4	41	<0.1	13.7	5.3	192	1.49	9.0	0.6	1.1	1.4	6	0.1	0.6	<0.1	21	0.07	0.038
1545912	Soil		0.5	15.6	8.0	49	<0.1	15.5	9.1	407	1.84	13.7	0.5	2.6	4.0	8	<0.1	0.7	0.1	17	0.10	0.062
1545905	Soil		0.5	9.8	7.8	39	<0.1	13.3	7.7	343	1.88	12.0	0.4	1.3	3.9	8	<0.1	0.6	0.1	18	0.10	0.066
1545907	Soil		0.5	11.9	6.7	41	<0.1	13.8	8.5	413	1.61	10.9	0.6	0.8	4.0	9	0.1	0.6	0.1	19	0.11	0.053
1548430	Soil		0.7	21.6	9.4	48	<0.1	17.2	7.2	272	2.05	9.9	1.0	19.8	3.2	9	0.1	0.7	0.2	26	0.09	0.051
1548434	Soil		0.4	15.0	7.6	43	<0.1	13.8	7.0	216	1.61	11.6	0.8	2.0	4.3	8	<0.1	0.7	0.1	19	0.10	0.055
1545906	Soil		0.5	13.2	8.5	38	<0.1	17.0	9.0	290	1.84	10.6	0.6	7.3	4.8	8	0.2	0.6	0.1	27	0.09	0.039
1545904	Soil		0.4	11.4	6.5	46	<0.1	14.4	7.4	312	1.54	10.4	0.6	4.3	4.0	9	0.1	0.5	<0.1	17	0.10	0.052
1548427	Soil		0.6	10.4	7.9	33	<0.1	8.8	3.2	97	1.67	10.1	0.6	1.1	1.6	6	<0.1	0.4	0.1	24	0.06	0.040
1548426	Soil		0.8	20.2	9.6	47	<0.1	18.0	7.2	245	2.11	10.2	0.8	23.2	3.0	8	<0.1	0.7	0.1	25	0.09	0.054
1548437	Soil		0.6	11.5	7.9	42	<0.1	11.3	4.6	138	1.87	10.4	0.6	8.1	2.0	7	<0.1	0.5	0.1	25	0.08	0.046
1548431	Soil		0.5	20.0	7.9	42	<0.1	13.7	7.6	257	1.74	12.3	0.6	1.8	3.0	8	<0.1	0.6	0.1	21	0.11	0.048

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Project: MCQ
Report Date: September 06, 2017

CERTIFICATE OF ANALYSIS WHI17000676.1

		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
1548436	Soil		14	14	0.19	64	0.011	1	0.75	0.002	0.03	0.4	0.04	0.8	<0.1	<0.05	3	<0.5	<0.2
1548471	Soil		20	17	0.36	123	0.013	1	0.89	0.002	0.03	0.1	0.03	1.8	<0.1	<0.05	2	<0.5	<0.2
1548462	Soil		33	29	0.39	301	0.008	1	0.98	0.003	0.05	0.1	0.06	3.5	0.1	<0.05	3	<0.5	<0.2
1548466	Soil		13	13	0.24	83	0.012	1	0.77	0.002	0.03	0.2	0.02	1.3	<0.1	<0.05	2	<0.5	<0.2
1545875	Soil		13	13	0.25	57	0.015	<1	0.85	0.002	0.03	0.3	0.02	1.5	<0.1	<0.05	2	0.7	<0.2
1545909	Soil		13	12	0.23	52	0.014	1	0.73	0.002	0.03	0.2	0.02	1.6	<0.1	<0.05	2	0.6	<0.2
1545908	Soil		13	12	0.26	65	0.016	1	0.77	0.002	0.03	0.2	0.02	1.8	<0.1	<0.05	2	<0.5	<0.2
1545910	Soil		14	11	0.25	59	0.016	1	0.62	0.002	0.03	0.2	0.01	1.7	<0.1	<0.05	2	<0.5	<0.2
1545911	Soil		14	13	0.20	60	0.013	1	0.67	0.002	0.03	0.3	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1545912	Soil		14	11	0.25	57	0.015	2	0.66	0.002	0.03	0.2	0.02	1.8	<0.1	<0.05	2	<0.5	<0.2
1545905	Soil		11	11	0.22	48	0.014	<1	0.68	0.002	0.03	0.2	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1545907	Soil		12	12	0.24	64	0.015	<1	0.74	0.003	0.03	0.2	0.01	1.8	<0.1	<0.05	2	<0.5	<0.2
1548430	Soil		21	15	0.32	117	0.015	1	0.85	0.003	0.03	0.3	0.03	1.5	<0.1	<0.05	3	<0.5	<0.2
1548434	Soil		14	12	0.25	64	0.015	1	0.70	0.003	0.03	0.3	0.04	1.7	<0.1	<0.05	2	<0.5	<0.2
1545906	Soil		13	18	0.33	97	0.024	1	1.22	0.004	0.04	0.3	0.02	2.4	<0.1	<0.05	3	0.7	<0.2
1545904	Soil		11	11	0.26	60	0.013	<1	0.77	0.002	0.03	0.2	0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
1548427	Soil		12	14	0.20	58	0.012	1	0.78	0.002	0.03	0.2	0.02	1.3	<0.1	<0.05	2	<0.5	<0.2
1548426	Soil		19	17	0.30	93	0.015	<1	0.83	0.002	0.03	0.4	0.03	1.5	<0.1	<0.05	3	<0.5	<0.2
1548437	Soil		13	16	0.28	94	0.014	<1	0.94	0.003	0.03	0.3	0.03	1.5	<0.1	<0.05	3	0.5	<0.2
1548431	Soil		12	13	0.26	89	0.014	1	0.79	0.002	0.03	0.3	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2

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QUALITY CONTROL REPORT WHI17000676.1

		Method	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
Pulp Duplicates																						
1545483	Soil		0.7	24.3	8.5	56	<0.1	19.6	7.0	294	1.68	10.0	0.8	3.0	4.6	11	0.3	0.8	0.2	21	0.11	0.057
REP 1545483	QC		0.7	24.4	8.4	56	<0.1	19.4	7.1	296	1.68	10.2	0.7	4.9	4.3	11	0.2	0.9	0.1	20	0.12	0.058
1548137	Soil		0.5	10.6	7.4	34	<0.1	10.7	7.6	236	1.59	9.2	0.8	1.7	2.3	6	0.1	0.6	0.1	21	0.04	0.037
REP 1548137	QC		0.5	10.5	7.3	34	<0.1	10.7	7.5	243	1.52	8.7	0.8	1.0	1.8	5	<0.1	0.6	0.1	22	0.05	0.039
1546096	Soil		0.8	22.0	10.0	53	<0.1	14.7	5.4	113	1.89	11.3	1.1	2.7	3.7	11	0.1	1.2	0.2	26	0.10	0.060
REP 1546096	QC		0.8	21.3	9.8	52	<0.1	14.3	5.3	112	1.88	11.7	1.1	11.7	3.4	11	0.1	1.1	0.2	25	0.11	0.056
1546105	Soil		0.4	14.2	11.5	46	0.1	13.2	4.5	77	1.63	6.8	0.9	4.1	2.0	9	<0.1	1.0	0.2	24	0.06	0.042
REP 1546105	QC		0.4	13.6	10.5	43	0.1	13.2	4.4	74	1.50	7.1	1.0	3.2	2.6	8	<0.1	1.1	0.2	24	0.07	0.039
1537649	Soil		0.8	37.3	14.2	57	<0.1	27.8	12.1	277	2.61	12.4	1.3	18.4	7.6	9	0.1	0.8	0.2	22	0.05	0.037
REP 1537649	QC		0.9	35.5	14.5	60	<0.1	25.4	11.4	265	2.50	14.4	1.4	9.2	8.4	9	0.1	0.9	0.3	21	0.05	0.036
1547914	Soil		0.6	27.6	11.7	47	<0.1	19.3	9.8	378	1.83	11.0	1.2	5.9	7.3	10	0.1	0.8	0.2	16	0.08	0.043
REP 1547914	QC		0.5	27.1	12.0	47	<0.1	20.0	9.6	372	1.83	10.5	1.2	2.4	6.8	10	<0.1	0.8	0.2	17	0.08	0.041
1537546	Soil		0.6	15.1	11.4	42	0.1	15.1	6.3	117	2.23	9.3	1.0	3.0	3.0	7	<0.1	2.7	0.2	20	0.05	0.059
REP 1537546	QC		0.7	14.7	11.1	42	0.1	14.9	5.7	114	2.17	9.1	1.0	20.5	3.1	7	<0.1	2.6	0.2	19	0.05	0.055
1545865	Soil		0.6	24.4	8.8	39	<0.1	16.0	7.7	341	1.83	11.3	1.3	2.1	5.8	7	<0.1	0.8	0.1	28	0.07	0.035
REP 1545865	QC		0.7	24.1	8.7	39	<0.1	16.4	7.7	337	1.83	10.6	1.4	1.7	5.5	7	0.1	0.8	0.1	26	0.07	0.037
1548427	Soil		0.6	10.4	7.9	33	<0.1	8.8	3.2	97	1.67	10.1	0.6	1.1	1.6	6	<0.1	0.4	0.1	24	0.06	0.040
REP 1548427	QC		0.7	10.8	9.9	35	<0.1	9.2	3.1	98	1.65	9.9	0.6	9.0	1.4	6	<0.1	0.6	0.1	24	0.06	0.040
Reference Materials																						
STD DS11	Standard		14.0	167.0	135.7	347	1.7	78.9	13.9	1006	3.16	46.9	3.0	128.0	8.6	67	2.7	9.9	14.2	50	1.03	0.073
STD DS11	Standard		14.8	158.2	141.5	339	1.8	80.6	14.9	1068	3.20	44.3	2.8	69.0	8.5	68	2.6	9.3	13.1	47	1.13	0.073
STD DS11	Standard		13.7	154.9	131.2	308	1.8	80.1	14.5	1028	3.26	39.2	2.7	77.8	7.8	65	2.2	7.8	11.6	52	0.91	0.073
STD DS11	Standard		15.6	147.4	126.6	304	1.7	76.0	13.2	1020	3.03	45.5	2.9	141.6	7.9	68	2.6	9.4	14.1	56	0.96	0.066
STD DS11	Standard		14.4	151.3	144.9	326	1.7	80.0	14.1	1075	3.39	43.1	3.0	63.9	8.9	73	2.5	9.2	13.5	53	1.09	0.068
STD DS11	Standard		14.2	167.5	149.0	374	1.8	83.5	14.7	1047	3.25	46.5	3.0	86.0	9.1	76	2.9	9.9	14.9	51	1.11	0.068
STD DS11	Standard		13.1	159.4	136.7	335	1.8	80.9	13.1	1039	3.34	41.1	2.8	78.9	7.8	64	2.4	8.0	11.6	48	0.95	0.069
STD DS11	Standard		12.9	149.1	133.5	347	1.7	77.6	13.4	1020	3.06	42.6	2.5	81.9	7.3	64	2.2	9.3	11.4	46	1.03	0.071
STD DS11	Standard		14.1	148.2	134.4	318	1.7	79.9	14.4	1064	3.17	43.5	2.6	67.7	7.5	65	2.3	9.0	11.4	53	1.05	0.068

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Project: MCQ
Report Date: September 06, 2017

QUALITY CONTROL REPORT WHI17000676.1

		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																			
1545483	Soil		15	13	0.26	161	0.017	<1	0.67	0.002	0.04	0.3	0.03	2.1	<0.1	<0.05	2	<0.5	<0.2
REP 1545483	QC		15	12	0.26	160	0.016	<1	0.65	0.003	0.04	0.3	0.03	2.0	<0.1	<0.05	2	<0.5	<0.2
1548137	Soil		13	12	0.21	72	0.016	<1	0.77	0.003	0.02	0.2	0.02	1.6	<0.1	<0.05	2	0.5	<0.2
REP 1548137	QC		11	13	0.21	69	0.017	<1	0.76	0.002	0.02	0.2	0.03	1.6	<0.1	<0.05	2	<0.5	<0.2
1546096	Soil		20	16	0.27	183	0.012	<1	0.82	0.003	0.03	0.4	0.03	1.8	<0.1	<0.05	3	<0.5	<0.2
REP 1546096	QC		19	15	0.27	177	0.012	<1	0.85	0.003	0.03	0.4	0.04	1.8	<0.1	<0.05	2	<0.5	<0.2
1546105	Soil		20	17	0.27	188	0.006	<1	0.98	0.003	0.03	0.2	0.07	1.5	0.1	<0.05	3	<0.5	<0.2
REP 1546105	QC		18	17	0.26	184	0.007	<1	0.94	0.003	0.04	0.2	0.04	1.7	0.1	<0.05	3	<0.5	<0.2
1537649	Soil		29	20	0.32	115	0.010	1	0.78	0.002	0.03	0.2	0.04	2.1	<0.1	<0.05	2	<0.5	<0.2
REP 1537649	QC		27	19	0.31	111	0.012	1	0.78	0.002	0.03	0.2	0.04	2.5	<0.1	<0.05	2	<0.5	<0.2
1547914	Soil		25	12	0.31	132	0.014	2	0.72	0.002	0.03	0.2	0.04	2.4	<0.1	<0.05	2	<0.5	<0.2
REP 1547914	QC		25	13	0.33	131	0.014	<1	0.76	0.002	0.03	0.2	0.03	2.3	<0.1	<0.05	2	<0.5	<0.2
1537546	Soil		25	13	0.20	103	0.006	1	0.73	0.002	0.03	0.2	0.02	1.3	<0.1	<0.05	2	<0.5	<0.2
REP 1537546	QC		24	13	0.18	98	0.005	<1	0.66	0.002	0.03	0.2	0.03	1.1	<0.1	<0.05	2	<0.5	<0.2
1545865	Soil		16	17	0.30	121	0.023	<1	1.06	0.003	0.03	0.3	0.07	2.8	<0.1	<0.05	2	0.5	<0.2
REP 1545865	QC		15	17	0.30	126	0.024	<1	1.06	0.003	0.03	0.3	0.06	2.9	<0.1	<0.05	2	<0.5	<0.2
1548427	Soil		12	14	0.20	58	0.012	1	0.78	0.002	0.03	0.2	0.02	1.3	<0.1	<0.05	2	<0.5	<0.2
REP 1548427	QC		12	14	0.20	58	0.012	2	0.81	0.002	0.02	0.3	0.03	1.1	<0.1	<0.05	2	<0.5	<0.2
Reference Materials																			
STD DS11	Standard		21	59	0.80	353	0.095	8	1.12	0.069	0.39	2.9	0.26	3.3	4.9	0.27	5	2.1	4.6
STD DS11	Standard		19	58	0.81	384	0.100	7	1.10	0.064	0.38	2.9	0.26	3.3	5.0	0.31	5	2.6	4.9
STD DS11	Standard		19	61	0.83	365	0.095	8	1.15	0.069	0.37	2.5	0.25	2.8	5.1	0.30	4	2.5	4.2
STD DS11	Standard		21	66	0.87	361	0.104	9	1.21	0.070	0.37	2.5	0.24	3.5	4.6	0.27	4	2.9	4.6
STD DS11	Standard		22	63	0.76	378	0.099	8	1.16	0.064	0.43	2.9	0.27	3.4	5.0	0.27	5	2.1	4.7
STD DS11	Standard		20	61	0.82	386	0.098	7	1.14	0.073	0.45	3.4	0.27	3.5	5.5	0.27	6	2.1	4.7
STD DS11	Standard		20	58	0.80	359	0.095	7	1.13	0.062	0.38	3.0	0.27	2.9	4.7	0.28	5	2.2	4.4
STD DS11	Standard		17	58	0.79	371	0.089	5	1.06	0.062	0.39	2.9	0.27	2.9	4.8	0.27	5	2.2	4.4
STD DS11	Standard		18	61	0.83	358	0.091	7	1.19	0.072	0.38	3.1	0.27	3.3	4.8	0.27	5	2.6	4.7

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Project: MCQ

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		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
STD OXC129	Standard	1.2	31.1	6.7	43	<0.1	80.2	19.3	413	3.02	0.7	0.8	189.8	2.1	179	<0.1	<0.1	<0.1	53	0.63	0.110
STD OXC129	Standard	1.2	26.6	6.9	41	<0.1	79.8	20.4	400	3.34	<0.5	0.7	194.5	2.1	183	<0.1	<0.1	<0.1	49	0.72	0.105
STD OXC129	Standard	1.4	29.1	7.0	41	<0.1	79.9	21.5	394	3.01	0.8	0.8	198.0	2.2	194	<0.1	<0.1	<0.1	54	0.71	0.091
STD OXC129	Standard	1.3	26.5	6.3	37	<0.1	73.1	19.1	417	2.95	0.7	0.8	191.8	2.1	186	<0.1	<0.1	<0.1	60	0.65	0.094
STD OXC129	Standard	1.2	28.9	7.3	42	<0.1	79.1	22.6	445	3.21	0.7	0.8	206.9	2.2	195	<0.1	<0.1	<0.1	56	0.75	0.100
STD OXC129	Standard	1.3	27.8	6.6	40	<0.1	83.6	21.7	436	3.23	<0.5	0.8	207.1	2.0	183	<0.1	<0.1	<0.1	58	0.72	0.104
STD OXC129	Standard	1.2	28.6	6.8	44	<0.1	78.3	21.1	405	3.19	0.6	0.8	202.6	2.0	189	<0.1	<0.1	<0.1	50	0.73	0.103
STD OXC129	Standard	1.2	27.3	6.5	41	<0.1	74.8	19.7	430	3.11	0.8	0.7	195.7	1.9	188	<0.1	<0.1	<0.1	53	0.67	0.104
STD OXC129	Standard	1.4	26.4	6.3	40	<0.1	79.3	20.9	450	3.15	0.6	0.6	200.7	1.8	188	<0.1	<0.1	<0.1	55	0.68	0.104
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	<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	<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	<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	<2	<0.01	<0.001

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Project: MCQ
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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
STD OXC129	Standard	14	51	1.54	48	0.392	2	1.48	0.570	0.35	<0.1	<0.01	0.8	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	14	53	1.55	53	0.420	2	1.54	0.606	0.38	<0.1	<0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	13	55	1.54	47	0.437	2	1.53	0.546	0.39	<0.1	<0.01	1.0	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	15	60	1.69	51	0.464	2	1.69	0.589	0.36	<0.1	<0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	14	54	1.57	52	0.426	2	1.65	0.569	0.38	<0.1	<0.01	1.1	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	15	57	1.59	56	0.442	1	1.71	0.605	0.37	<0.1	<0.01	0.8	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	14	49	1.42	54	0.413	<1	1.51	0.572	0.40	<0.1	<0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	12	53	1.56	51	0.416	<1	1.55	0.600	0.37	<0.1	<0.01	0.8	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	13	53	1.47	52	0.406	2	1.62	0.600	0.37	<0.1	<0.01	1.0	<0.1	<0.05	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	0.2	<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
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
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

BUREAU VERITAS MINERAL LABORATORIES Canada

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

Client: **Ryanwood Exploration Inc.**
Box 213
Dawson City Yukon Y0B 1G0 Canada

Submitted By: Shawn Ryan
Receiving Lab: Canada-Whitehorse
Received: August 23, 2017
Report Date: September 07, 2017
Page: 1 of 12

CERTIFICATE OF ANALYSIS WHI17000677.1

CLIENT JOB INFORMATION

Project: MCQ
Shipment ID: MCQ-20170822-001-SOIL
P.O. Number
Number of Samples: 320

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.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	320	Dry at 60C			WHI
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
AQ201	320	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
SHP01	320	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

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

CC: Isaac Fage
Jodie Gibson

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Production Manager

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

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Project: MCQ
Report Date: September 07, 2017

CERTIFICATE OF ANALYSIS WHI17000677.1

		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
1545853	Soil		0.6	13.7	6.8	46	<0.1	13.3	6.7	239	1.51	8.7	0.8	5.7	3.3	8	0.2	0.6	0.1	19	0.08	0.049
1548447	Soil		0.7	13.4	7.9	37	<0.1	9.2	3.6	125	1.62	9.6	0.9	<0.5	1.2	9	<0.1	0.6	0.1	25	0.08	0.061
1548444	Soil		0.6	19.2	8.6	50	<0.1	14.8	7.6	274	1.82	12.1	0.9	1.5	3.4	9	<0.1	0.7	0.1	22	0.09	0.055
1548449	Soil		0.5	24.0	7.7	46	<0.1	15.6	6.5	219	1.60	11.7	0.9	86.3	4.2	10	<0.1	0.7	0.1	19	0.10	0.055
1545854	Soil		0.5	23.6	8.3	57	<0.1	16.8	9.1	362	1.72	13.0	0.7	<0.5	4.5	9	0.1	0.8	0.1	18	0.10	0.059
1548445	Soil		0.4	15.8	7.7	46	<0.1	13.5	6.3	208	1.51	9.6	0.9	<0.5	4.1	9	<0.1	0.6	0.1	22	0.09	0.050
1548438	Soil		0.6	13.6	8.7	39	<0.1	12.4	5.2	194	1.63	11.6	0.8	28.9	1.6	7	0.2	0.7	0.2	25	0.08	0.046
1548441	Soil		0.8	21.1	8.1	45	<0.1	15.0	6.3	271	1.75	11.1	1.0	<0.5	2.9	10	<0.1	0.7	0.1	23	0.10	0.051
1545859	Soil		0.4	21.2	7.5	44	<0.1	17.1	7.3	304	1.56	14.1	0.7	<0.5	4.6	10	0.1	0.8	0.1	16	0.10	0.056
1545858	Soil		0.7	23.5	9.5	53	<0.1	18.0	7.8	282	1.89	10.5	1.4	2.0	4.8	9	<0.1	0.8	0.2	25	0.07	0.042
1548446	Soil		0.5	21.7	7.6	47	<0.1	14.9	7.1	231	1.65	12.7	0.8	<0.5	3.8	10	0.1	0.7	0.1	19	0.11	0.053
1548440	Soil		0.6	25.2	8.5	50	<0.1	15.8	7.9	257	1.80	11.1	1.3	2.4	4.1	11	<0.1	0.8	0.1	25	0.11	0.050
1545862	Soil		0.5	14.6	9.0	49	<0.1	14.7	8.5	315	1.64	11.4	0.6	6.6	4.0	7	0.1	0.7	0.1	19	0.06	0.040
1545856	Soil		0.5	28.2	8.7	51	<0.1	14.8	6.6	254	1.79	11.7	0.9	2.6	3.3	9	<0.1	0.8	0.1	26	0.09	0.061
1548448	Soil		1.0	24.4	10.7	63	<0.1	23.1	7.9	277	2.21	10.3	1.0	1.6	3.1	11	0.1	0.8	0.3	28	0.09	0.054
1548439	Soil		0.8	15.3	8.7	51	<0.1	13.5	5.8	223	1.87	11.4	0.9	0.8	2.7	9	0.1	0.7	0.1	27	0.09	0.050
1548056	Soil		1.1	12.3	9.6	62	0.2	15.9	6.8	228	2.18	12.3	0.8	8.6	4.5	11	<0.1	0.9	0.2	35	0.09	0.040
1548051	Soil		0.9	25.9	16.4	54	0.1	28.5	11.3	182	2.29	15.2	0.9	2.6	6.3	9	<0.1	1.7	0.2	22	0.05	0.034
1545874	Soil		0.5	5.6	5.9	23	<0.1	5.8	2.1	68	1.17	7.4	0.4	4.1	0.3	5	<0.1	0.3	0.1	21	0.04	0.035
1545855	Soil		0.6	40.1	9.0	52	<0.1	18.6	7.9	281	1.81	14.2	0.7	<0.5	5.3	10	0.1	0.9	0.1	18	0.12	0.059
1548061	Soil		0.9	22.7	12.8	54	0.2	17.9	6.9	187	2.29	11.0	1.5	3.6	10.9	13	<0.1	1.0	0.2	20	0.07	0.037
1548053	Soil		1.2	27.9	9.4	70	<0.1	24.1	7.5	225	2.13	12.2	1.3	4.3	6.1	10	<0.1	1.5	0.2	32	0.07	0.022
1545861	Soil		0.5	21.7	9.1	52	<0.1	18.0	8.2	274	1.80	13.7	0.7	<0.5	5.0	11	0.1	0.9	0.1	19	0.12	0.062
1545860	Soil		0.6	20.3	8.4	50	<0.1	15.7	9.6	415	1.89	14.5	0.7	3.2	4.5	10	0.1	0.9	0.1	19	0.11	0.060
1548060	Soil		0.8	19.1	9.6	45	<0.1	19.0	7.5	175	1.83	9.6	1.0	<0.5	7.0	10	<0.1	1.0	0.2	21	0.07	0.027
1548058	Soil		0.8	18.0	8.7	50	0.1	15.9	6.2	183	1.87	10.6	1.3	<0.5	5.3	12	<0.1	0.9	0.1	30	0.11	0.040
1548052	Soil		1.4	22.9	14.7	50	0.1	23.4	7.9	203	2.69	18.0	0.8	1.0	6.4	13	0.1	1.7	0.3	43	0.08	0.027
1545857	Soil		0.6	18.8	8.8	44	<0.1	16.7	5.9	191	1.78	8.9	1.0	<0.5	4.0	9	<0.1	0.7	0.2	24	0.09	0.054
1548055	Soil		0.9	24.1	8.9	56	<0.1	21.2	7.5	210	2.02	11.8	1.1	<0.5	5.5	15	<0.1	1.1	0.2	30	0.13	0.052
1548059	Soil		0.9	22.5	10.1	58	<0.1	21.7	8.6	253	2.19	12.0	1.5	21.6	7.0	17	0.2	1.2	0.2	25	0.15	0.062

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Dawson City Yukon Y0B 1G0 Canada

Project: MCQ
Report Date: September 07, 2017

CERTIFICATE OF ANALYSIS WHI17000677.1

		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
1545853	Soil		12	12	0.26	70	0.015	2	0.73	0.002	0.03	0.2	0.02	1.3	<0.1	<0.05	2	<0.5	<0.2
1548447	Soil		13	14	0.27	86	0.014	2	0.82	0.004	0.03	0.2	0.03	1.4	<0.1	<0.05	3	<0.5	<0.2
1548444	Soil		14	15	0.30	150	0.016	1	0.81	0.003	0.03	0.2	0.03	1.9	<0.1	<0.05	2	<0.5	<0.2
1548449	Soil		15	12	0.26	170	0.015	<1	0.70	0.003	0.03	0.3	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
1545854	Soil		14	12	0.26	72	0.014	<1	0.75	0.002	0.03	0.2	0.02	1.7	<0.1	<0.05	2	<0.5	<0.2
1548445	Soil		16	13	0.28	122	0.019	<1	0.80	0.005	0.03	0.3	0.02	1.8	<0.1	<0.05	2	<0.5	<0.2
1548438	Soil		13	14	0.26	64	0.016	1	0.83	0.003	0.03	0.3	0.03	1.2	<0.1	<0.05	2	<0.5	<0.2
1548441	Soil		17	17	0.30	211	0.018	<1	0.80	0.003	0.03	0.3	0.04	2.1	<0.1	<0.05	3	<0.5	<0.2
1545859	Soil		13	10	0.23	62	0.015	<1	0.63	0.001	0.03	0.3	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1545858	Soil		19	17	0.33	180	0.020	1	0.90	0.003	0.03	0.2	0.04	2.9	<0.1	<0.05	3	<0.5	<0.2
1548446	Soil		15	12	0.26	112	0.017	1	0.68	0.003	0.03	0.2	0.06	1.8	<0.1	<0.05	2	<0.5	<0.2
1548440	Soil		17	15	0.29	154	0.022	<1	0.87	0.004	0.03	0.2	0.03	2.6	<0.1	<0.05	2	<0.5	<0.2
1545862	Soil		12	12	0.26	70	0.017	1	0.80	0.002	0.03	0.2	0.05	1.6	<0.1	<0.05	2	<0.5	<0.2
1545856	Soil		17	16	0.31	125	0.021	<1	0.91	0.004	0.03	0.2	0.03	3.0	<0.1	<0.05	2	<0.5	<0.2
1548448	Soil		23	23	0.38	236	0.016	<1	0.99	0.003	0.03	0.2	0.06	2.2	<0.1	<0.05	3	<0.5	<0.2
1548439	Soil		14	17	0.29	82	0.017	<1	0.95	0.003	0.03	0.3	0.03	1.6	<0.1	<0.05	3	<0.5	<0.2
1548056	Soil		15	19	0.34	189	0.021	<1	1.03	0.005	0.04	0.3	0.03	1.7	<0.1	<0.05	3	<0.5	<0.2
1548051	Soil		15	16	0.28	89	0.012	<1	0.98	0.002	0.05	0.2	0.02	1.7	<0.1	<0.05	2	<0.5	<0.2
1545874	Soil		11	13	0.18	41	0.012	<1	0.72	0.002	0.03	0.2	0.02	0.6	<0.1	<0.05	2	<0.5	<0.2
1545855	Soil		18	11	0.26	80	0.018	<1	0.66	0.002	0.03	0.2	0.05	2.4	<0.1	<0.05	2	<0.5	<0.2
1548061	Soil		39	14	0.38	138	0.010	<1	0.96	0.003	0.05	0.2	0.03	1.8	<0.1	<0.05	3	<0.5	<0.2
1548053	Soil		20	18	0.33	222	0.023	<1	0.96	0.003	0.04	0.2	0.04	3.1	<0.1	<0.05	3	<0.5	<0.2
1545861	Soil		15	12	0.27	64	0.017	<1	0.77	0.003	0.03	0.2	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
1545860	Soil		14	12	0.26	56	0.017	<1	0.74	0.002	0.03	0.2	0.03	1.5	<0.1	<0.05	2	<0.5	<0.2
1548060	Soil		24	14	0.31	152	0.015	<1	0.77	0.003	0.03	0.2	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1548058	Soil		18	17	0.31	215	0.022	2	0.95	0.004	0.04	0.2	0.03	2.5	<0.1	<0.05	3	<0.5	<0.2
1548052	Soil		18	22	0.31	199	0.018	<1	1.36	0.003	0.04	0.2	0.03	2.1	<0.1	<0.05	4	<0.5	<0.2
1545857	Soil		18	17	0.34	191	0.017	<1	0.88	0.003	0.03	0.2	0.02	1.9	<0.1	<0.05	2	<0.5	<0.2
1548055	Soil		17	17	0.33	243	0.020	<1	0.90	0.004	0.04	0.4	0.04	2.3	<0.1	<0.05	3	<0.5	<0.2
1548059	Soil		22	15	0.33	204	0.016	<1	0.79	0.003	0.05	0.3	0.01	2.2	<0.1	<0.05	2	<0.5	<0.2

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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
1548057	Soil	0.9	23.1	10.1	66	<0.1	28.4	11.0	255	2.43	14.7	0.9	<0.5	7.5	9	0.2	1.9	0.2	22	0.07	0.044
1545870	Soil	0.4	15.4	7.5	40	<0.1	15.5	7.3	252	1.59	12.8	0.6	<0.5	3.8	8	<0.1	0.7	0.1	16	0.08	0.045
1548077	Soil	0.9	16.1	8.1	52	<0.1	18.0	6.7	172	1.85	10.5	0.7	<0.5	5.3	17	<0.1	1.1	0.2	23	0.17	0.055
1548084	Soil	0.9	20.5	11.4	52	<0.1	14.1	5.8	163	2.19	9.6	1.1	116.0	8.1	12	<0.1	0.9	0.2	26	0.11	0.028
1548080	Soil	0.5	35.4	19.5	52	0.2	23.8	11.1	247	2.17	9.7	5.7	2.6	9.1	23	0.1	0.7	0.3	21	0.20	0.043
1548054	Soil	0.9	26.0	13.2	59	<0.1	24.1	8.3	238	2.47	17.2	1.1	<0.5	6.9	10	0.1	2.0	0.2	21	0.07	0.038
1548079	Soil	1.0	36.5	16.6	62	0.3	29.6	10.8	240	2.51	13.5	6.1	14.8	4.4	37	0.2	1.1	0.3	31	0.46	0.070
1548074	Soil	0.8	13.7	7.1	34	<0.1	13.5	5.7	145	1.58	10.6	0.7	1.5	3.0	18	<0.1	0.7	0.2	24	0.21	0.045
1548081	Soil	0.5	27.7	8.6	47	<0.1	16.4	7.5	213	1.80	12.7	1.4	2.7	5.0	10	<0.1	0.8	0.2	20	0.10	0.054
1548062	Soil	0.7	16.6	8.8	43	0.2	17.5	5.5	92	1.56	9.0	0.7	0.7	4.4	8	0.1	1.1	0.2	25	0.07	0.033
1548073	Soil	0.5	13.6	6.3	29	<0.1	11.8	4.7	104	1.22	5.7	0.7	0.9	2.8	18	<0.1	0.5	0.1	20	0.24	0.043
1548075	Soil	1.1	18.9	8.0	36	0.1	14.3	5.9	165	1.95	16.8	0.8	0.5	3.6	18	<0.1	0.9	0.2	27	0.24	0.048
1548082	Soil	0.7	19.1	9.7	45	<0.1	16.6	7.2	171	1.92	13.7	0.9	2.0	5.3	7	<0.1	0.8	0.2	21	0.06	0.035
1548083	Soil	0.8	24.6	19.8	58	<0.1	14.9	6.7	147	2.74	7.4	1.8	13.2	15.6	11	<0.1	0.8	0.3	16	0.05	0.027
1548068	Soil	0.8	25.3	8.3	57	<0.1	21.7	7.4	198	1.99	10.1	1.0	2.9	6.3	12	0.2	1.5	0.2	21	0.13	0.043
1548065	Soil	0.8	16.9	7.2	46	<0.1	14.7	5.7	147	1.70	8.4	1.2	1.1	3.0	15	0.1	0.7	0.1	25	0.16	0.057
1548076	Soil	0.6	22.1	7.4	38	0.1	16.3	5.7	110	1.48	8.3	0.8	1.8	3.6	17	0.1	0.7	0.1	24	0.20	0.041
1548078	Soil	0.6	24.8	11.1	46	0.2	19.9	6.9	190	1.63	7.0	2.8	3.2	3.9	30	0.2	0.9	0.2	25	0.40	0.051
1548033	Soil	0.7	9.8	8.7	34	<0.1	10.5	4.3	117	1.59	11.7	0.7	7.8	1.8	7	<0.1	1.2	0.2	24	0.04	0.037
1548024	Soil	0.9	26.7	18.0	66	0.1	22.2	11.0	212	3.00	119.6	1.7	15.5	13.6	22	<0.1	9.5	0.4	10	0.02	0.038
1548066	Soil	0.8	22.6	10.1	53	0.1	18.7	6.2	203	2.12	10.2	1.6	0.9	9.1	17	0.1	0.7	0.2	20	0.15	0.059
1548063	Soil	1.0	15.3	9.6	54	<0.1	18.6	8.9	202	2.08	15.7	0.8	5.0	4.7	9	0.1	1.1	0.2	32	0.09	0.037
1548032	Soil	0.6	10.8	7.3	38	<0.1	13.7	4.8	137	1.62	14.2	0.6	3.7	4.1	8	<0.1	1.5	0.1	24	0.07	0.025
1548027	Soil	0.8	9.6	8.7	34	<0.1	9.7	4.0	127	1.83	11.5	0.5	0.9	4.6	8	<0.1	0.8	0.2	27	0.05	0.033
1548070	Soil	0.6	14.0	6.2	40	<0.1	12.7	5.5	116	1.50	8.0	0.7	0.8	3.6	15	<0.1	0.8	0.1	21	0.18	0.054
1548064	Soil	1.0	19.0	8.3	50	<0.1	21.0	8.1	174	2.24	16.1	0.7	<0.5	5.5	9	0.1	2.0	0.2	20	0.07	0.039
1548023	Soil	0.6	48.2	8.4	56	0.2	75.3	17.6	344	2.97	19.5	0.8	1.7	4.0	13	<0.1	9.1	0.1	37	0.14	0.036
1548028	Soil	0.7	13.0	11.2	38	<0.1	12.5	5.1	131	1.90	11.3	0.6	6.4	4.4	9	<0.1	0.9	0.2	25	0.06	0.040
1548067	Soil	0.9	14.2	8.0	49	<0.1	14.8	6.5	200	1.87	10.4	0.7	2.1	4.4	10	<0.1	0.8	0.1	28	0.12	0.043
1548072	Soil	1.0	16.4	7.3	38	<0.1	13.3	6.3	124	1.63	10.5	0.8	1.6	3.2	18	<0.1	0.8	0.1	24	0.23	0.049

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Project: MCQ
Report Date: September 07, 2017

CERTIFICATE OF ANALYSIS WHI17000677.1

	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
1548057	Soil	17	16	0.27	111	0.014	<1	0.88	0.003	0.05	0.2	<0.01	2.0	<0.1	<0.05	2	<0.5	<0.2
1545870	Soil	13	11	0.25	72	0.015	<1	0.68	0.003	0.03	0.2	<0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
1548077	Soil	16	14	0.28	203	0.017	<1	0.69	0.003	0.04	0.3	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1548084	Soil	30	17	0.42	185	0.011	<1	1.21	0.003	0.04	0.2	<0.01	1.6	<0.1	<0.05	3	<0.5	<0.2
1548080	Soil	25	15	0.35	178	0.008	<1	1.08	0.004	0.05	0.1	0.04	2.1	<0.1	<0.05	3	<0.5	<0.2
1548054	Soil	20	15	0.30	119	0.013	<1	0.80	0.002	0.04	0.2	0.02	1.7	<0.1	<0.05	2	<0.5	<0.2
1548079	Soil	19	17	0.29	264	0.008	2	1.07	0.005	0.05	0.3	0.07	2.6	<0.1	<0.05	3	0.8	<0.2
1548074	Soil	12	13	0.23	259	0.010	2	0.72	0.003	0.03	0.2	0.03	1.6	<0.1	<0.05	2	<0.5	<0.2
1548081	Soil	18	13	0.26	148	0.015	<1	0.74	0.002	0.03	0.2	0.04	2.6	<0.1	<0.05	2	<0.5	<0.2
1548062	Soil	14	15	0.27	164	0.015	<1	0.88	0.003	0.04	0.3	0.03	1.5	<0.1	<0.05	2	<0.5	<0.2
1548073	Soil	12	11	0.22	235	0.010	1	0.69	0.003	0.03	0.1	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
1548075	Soil	14	14	0.25	311	0.011	1	0.82	0.003	0.03	0.2	0.02	2.0	<0.1	<0.05	2	<0.5	<0.2
1548082	Soil	15	14	0.26	80	0.014	1	0.86	0.002	0.04	0.3	0.01	1.6	<0.1	<0.05	2	<0.5	<0.2
1548083	Soil	54	14	0.50	161	0.005	1	1.31	0.003	0.06	<0.1	0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
1548068	Soil	25	15	0.33	226	0.012	<1	0.84	0.003	0.05	0.2	0.03	1.8	<0.1	<0.05	2	<0.5	<0.2
1548065	Soil	15	14	0.28	245	0.018	2	0.85	0.004	0.04	0.2	0.03	1.7	<0.1	<0.05	2	<0.5	<0.2
1548076	Soil	14	13	0.23	313	0.012	1	0.76	0.003	0.04	0.2	0.03	2.1	<0.1	<0.05	2	<0.5	<0.2
1548078	Soil	15	15	0.28	269	0.010	<1	0.96	0.004	0.04	0.2	0.05	2.3	<0.1	0.07	3	0.9	<0.2
1548033	Soil	15	17	0.24	98	0.007	<1	0.82	0.002	0.03	0.3	0.04	1.1	<0.1	<0.05	3	<0.5	<0.2
1548024	Soil	49	9	0.29	67	0.002	<1	0.76	0.003	0.06	<0.1	0.01	1.0	0.1	<0.05	2	<0.5	<0.2
1548066	Soil	37	14	0.36	236	0.012	1	0.88	0.003	0.05	0.2	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
1548063	Soil	13	18	0.30	193	0.022	<1	1.08	0.003	0.05	0.3	0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
1548032	Soil	16	21	0.29	178	0.011	1	0.86	0.002	0.02	0.3	0.02	1.4	<0.1	<0.05	3	<0.5	<0.2
1548027	Soil	16	12	0.19	102	0.013	<1	0.70	0.003	0.03	0.2	<0.01	1.2	<0.1	<0.05	3	<0.5	<0.2
1548070	Soil	13	11	0.23	207	0.013	<1	0.64	0.003	0.03	0.2	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1548064	Soil	16	13	0.26	75	0.012	<1	0.73	0.002	0.04	0.2	<0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
1548023	Soil	15	120	0.94	162	0.012	<1	1.53	0.003	0.03	<0.1	0.02	3.0	0.1	<0.05	4	<0.5	<0.2
1548028	Soil	16	13	0.23	112	0.011	<1	0.79	0.003	0.04	0.3	0.01	1.1	<0.1	<0.05	3	<0.5	<0.2
1548067	Soil	13	15	0.26	139	0.019	<1	0.92	0.004	0.04	0.2	0.03	1.6	<0.1	<0.05	3	<0.5	<0.2
1548072	Soil	12	12	0.23	264	0.011	<1	0.72	0.003	0.03	0.2	0.04	1.7	<0.1	<0.05	2	<0.5	<0.2

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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
1548034	Soil	0.6	10.9	9.8	30	<0.1	10.5	3.2	73	1.58	11.5	0.9	2.0	0.3	7	<0.1	1.0	0.2	23	0.05	0.051
1548030	Soil	0.7	14.8	8.0	42	<0.1	13.6	5.4	158	1.84	13.6	0.9	2.1	4.9	8	<0.1	1.2	0.2	25	0.06	0.033
1548071	Soil	0.6	16.3	6.6	43	<0.1	14.7	4.7	116	1.50	8.5	0.7	<0.5	4.2	16	<0.1	0.8	0.1	21	0.19	0.051
1548069	Soil	0.6	15.8	6.6	38	<0.1	13.4	5.2	125	1.52	7.9	0.8	1.8	3.7	14	<0.1	0.7	0.1	23	0.18	0.047
1548017	Soil	0.4	8.2	7.8	30	0.2	11.6	3.0	63	1.32	6.1	0.6	1.3	0.5	7	<0.1	0.5	0.2	21	0.06	0.054
1548016	Soil	0.5	5.9	7.5	34	0.1	8.5	2.9	60	1.31	5.8	0.5	1.1	0.6	7	<0.1	0.5	0.2	19	0.06	0.047
1548013	Soil	0.6	33.4	12.9	63	0.2	23.5	9.4	201	2.04	8.1	2.1	4.1	6.2	15	0.1	0.7	0.2	21	0.15	0.054
1548026	Soil	0.7	18.7	13.1	45	0.1	17.0	6.3	119	2.29	99.0	1.0	9.4	9.0	13	<0.1	5.1	0.3	18	0.02	0.026
1548019	Soil	0.7	31.9	11.3	56	0.1	62.8	13.9	285	2.97	18.4	1.0	94.6	6.0	14	0.1	6.6	0.2	30	0.12	0.053
1548015	Soil	0.5	11.2	8.0	32	0.2	13.7	3.9	76	1.44	6.2	0.8	7.6	0.7	9	0.1	0.6	0.2	21	0.08	0.055
1548020	Soil	0.8	24.7	15.2	55	0.1	28.5	8.1	189	2.58	14.8	1.3	4.3	7.7	12	<0.1	4.0	0.3	16	0.06	0.049
1548025	Soil	1.0	26.0	17.8	61	0.1	22.2	11.4	216	2.92	94.6	1.6	10.5	13.0	21	<0.1	7.7	0.4	11	0.02	0.040
1548003	Soil	0.9	16.0	10.8	38	0.1	12.0	4.0	83	1.79	10.1	0.9	3.1	0.8	10	<0.1	1.1	0.2	25	0.08	0.047
1548022	Soil	0.7	21.8	13.7	54	0.1	31.4	8.4	174	2.21	18.3	1.1	27.5	5.4	11	<0.1	4.9	0.2	24	0.09	0.049
1548018	Soil	0.7	32.4	15.7	47	0.2	39.5	9.9	208	2.40	18.0	1.8	4.7	4.9	15	<0.1	4.6	0.3	32	0.15	0.050
1548029	Soil	1.0	11.8	9.8	40	<0.1	12.0	4.5	141	2.00	14.4	0.6	44.8	5.3	8	<0.1	1.1	0.2	32	0.05	0.038
1548007	Soil	0.8	14.0	10.8	34	0.2	10.9	3.7	71	1.87	7.6	1.0	3.8	0.6	9	<0.1	0.8	0.2	21	0.07	0.062
1548021	Soil	0.7	21.6	12.3	55	0.1	27.7	9.4	210	2.26	20.5	1.2	50.0	8.6	12	<0.1	5.0	0.2	19	0.10	0.036
1548014	Soil	0.6	15.7	12.0	42	0.2	15.7	5.2	102	1.95	6.7	1.1	2.0	1.2	10	<0.1	1.5	0.2	25	0.07	0.056
1548031	Soil	1.0	15.3	11.0	46	<0.1	15.1	4.9	155	2.01	14.7	0.9	10.2	5.9	11	<0.1	1.3	0.3	28	0.05	0.037
1545584	Soil	0.6	15.2	7.9	29	<0.1	11.3	3.7	120	1.44	8.0	1.3	0.5	0.7	19	0.1	0.6	0.1	22	0.19	0.057
1545578	Soil	0.7	11.7	7.1	45	<0.1	12.9	7.5	273	1.69	9.6	0.9	1.7	4.1	13	<0.1	0.7	0.1	26	0.14	0.050
1545577	Soil	1.0	10.7	11.1	85	0.1	13.2	5.8	284	2.28	11.4	0.4	1.3	2.7	8	0.2	1.0	0.2	55	0.05	0.032
1545572	Soil	0.6	14.3	8.1	44	<0.1	13.6	4.0	103	1.39	9.9	0.9	4.2	4.4	14	<0.1	0.9	0.1	23	0.16	0.053
1545585	Soil	0.7	11.0	7.6	38	<0.1	12.8	4.3	103	1.49	8.9	0.7	2.5	2.7	16	<0.1	0.6	0.1	21	0.17	0.051
1545583	Soil	0.6	14.0	9.7	45	<0.1	14.1	5.5	100	1.62	10.0	1.1	<0.5	3.9	18	0.1	0.8	0.2	28	0.18	0.053
1545576	Soil	0.7	32.6	11.9	69	<0.1	26.3	9.0	208	2.38	17.9	1.1	2.3	7.9	11	0.2	2.3	0.2	18	0.08	0.043
1545596	Soil	0.4	16.1	8.9	42	0.2	19.5	7.2	374	1.26	7.6	1.2	5.7	3.0	29	0.2	0.8	0.1	17	0.35	0.044
1545599	Soil	0.7	23.1	10.2	52	<0.1	19.0	8.9	175	1.95	13.7	0.7	2.2	4.5	11	0.1	1.1	0.2	28	0.12	0.033
1545579	Soil	0.6	15.0	7.2	51	<0.1	14.2	5.5	148	1.42	8.1	1.0	2.4	4.4	19	<0.1	0.7	0.1	21	0.20	0.052

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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
1548034	Soil	14	18	0.23	159	0.005	<1	0.90	0.003	0.03	0.2	0.04	0.7	0.1	<0.05	3	<0.5	<0.2
1548030	Soil	18	16	0.27	153	0.012	1	0.86	0.003	0.03	0.2	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
1548071	Soil	16	12	0.25	218	0.014	1	0.70	0.003	0.03	0.2	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
1548069	Soil	14	13	0.26	223	0.014	<1	0.79	0.003	0.03	0.2	0.03	1.9	<0.1	<0.05	2	<0.5	<0.2
1548017	Soil	11	20	0.25	98	0.005	<1	0.83	0.004	0.03	0.2	0.07	0.7	0.1	<0.05	3	<0.5	<0.2
1548016	Soil	11	13	0.21	103	0.005	<1	0.78	0.003	0.03	0.1	0.05	0.7	0.1	<0.05	3	<0.5	<0.2
1548013	Soil	27	19	0.36	192	0.010	<1	0.95	0.004	0.05	0.2	0.04	2.1	0.1	<0.05	3	<0.5	<0.2
1548026	Soil	30	11	0.23	62	0.005	<1	0.73	0.003	0.04	0.1	0.01	1.0	<0.1	<0.05	2	<0.5	<0.2
1548019	Soil	27	79	0.64	101	0.005	<1	1.08	0.003	0.04	0.3	0.02	3.0	0.1	<0.05	3	<0.5	<0.2
1548015	Soil	13	21	0.27	162	0.005	<1	0.85	0.003	0.03	0.4	0.04	0.8	0.1	<0.05	3	<0.5	<0.2
1548020	Soil	35	34	0.39	79	0.004	<1	0.83	0.003	0.04	<0.1	0.02	1.3	0.1	<0.05	2	<0.5	<0.2
1548025	Soil	47	9	0.27	66	0.002	<1	0.77	0.003	0.05	<0.1	<0.01	1.1	<0.1	<0.05	2	<0.5	<0.2
1548003	Soil	17	14	0.24	139	0.006	<1	0.86	0.003	0.03	0.2	0.04	0.8	0.1	<0.05	3	<0.5	<0.2
1548022	Soil	20	40	0.43	93	0.005	<1	0.90	0.002	0.04	0.3	0.02	1.8	0.1	<0.05	3	0.5	<0.2
1548018	Soil	22	57	0.54	207	0.004	1	1.12	0.003	0.04	0.2	0.04	2.7	0.2	<0.05	4	<0.5	<0.2
1548029	Soil	18	18	0.29	83	0.012	<1	0.91	0.003	0.03	0.2	<0.01	1.3	<0.1	<0.05	3	<0.5	<0.2
1548007	Soil	15	13	0.23	98	0.004	<1	0.82	0.003	0.04	0.1	0.05	0.6	0.1	<0.05	3	<0.5	<0.2
1548021	Soil	36	22	0.25	89	0.004	1	0.59	0.002	0.04	0.3	<0.01	1.7	<0.1	<0.05	2	<0.5	<0.2
1548014	Soil	19	22	0.34	111	0.006	<1	0.92	0.003	0.03	0.3	0.04	1.0	0.1	<0.05	3	<0.5	<0.2
1548031	Soil	26	17	0.31	71	0.011	1	0.81	0.003	0.04	0.2	0.03	1.2	<0.1	<0.05	3	<0.5	<0.2
1545584	Soil	12	11	0.18	319	0.007	1	0.62	0.003	0.03	0.2	0.04	1.3	<0.1	<0.05	2	<0.5	<0.2
1545578	Soil	14	15	0.29	201	0.012	<1	0.90	0.003	0.03	0.1	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
1545577	Soil	14	20	0.21	157	0.016	1	1.35	0.004	0.03	0.2	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
1545572	Soil	17	12	0.26	171	0.015	<1	0.64	0.003	0.03	0.3	0.03	1.5	<0.1	<0.05	2	<0.5	<0.2
1545585	Soil	15	12	0.24	167	0.011	<1	0.63	0.003	0.03	0.3	0.03	1.3	<0.1	<0.05	2	<0.5	<0.2
1545583	Soil	16	15	0.28	313	0.009	1	0.86	0.003	0.04	0.2	0.04	1.9	<0.1	<0.05	3	<0.5	<0.2
1545576	Soil	24	12	0.30	88	0.011	1	0.60	0.002	0.04	0.2	0.07	1.7	<0.1	<0.05	2	<0.5	<0.2
1545596	Soil	16	12	0.23	308	0.006	1	0.79	0.003	0.04	0.1	0.05	2.0	<0.1	<0.05	2	<0.5	<0.2
1545599	Soil	13	17	0.29	135	0.016	<1	0.95	0.002	0.04	0.3	<0.01	1.7	<0.1	<0.05	3	<0.5	<0.2
1545579	Soil	15	12	0.25	239	0.013	<1	0.67	0.003	0.03	0.2	0.02	1.7	<0.1	<0.05	2	<0.5	<0.2

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Project: MCQ
Report Date: September 07, 2017

CERTIFICATE OF ANALYSIS WHI17000677.1

		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
1545600	Soil		0.6	19.5	9.5	42	<0.1	20.3	9.1	186	2.13	10.2	0.7	3.1	4.2	10	<0.1	0.8	0.2	32	0.10	0.021
1545601	Soil		0.8	15.7	8.7	37	<0.1	13.3	5.6	147	1.89	16.5	0.9	26.6	2.0	19	<0.1	0.9	0.2	27	0.28	0.046
1545568	Soil		0.8	20.6	9.4	49	0.1	19.9	7.0	188	2.03	9.8	0.9	1.0	5.9	16	<0.1	1.2	0.2	25	0.15	0.043
1545580	Soil		0.8	11.3	9.3	45	0.1	14.3	9.3	276	2.36	11.7	1.0	4.2	2.4	22	<0.1	0.8	0.2	26	0.23	0.067
1545582	Soil		0.6	10.8	6.3	37	0.1	12.1	5.8	142	1.58	6.4	0.9	0.9	2.4	14	<0.1	0.5	0.1	20	0.13	0.047
1545581	Soil		0.7	10.2	7.0	38	<0.1	11.9	5.2	133	1.93	9.2	0.8	1.3	3.7	15	<0.1	0.8	0.1	25	0.15	0.059
1545592	Soil		0.7	14.7	10.8	50	<0.1	16.7	5.7	126	1.80	9.4	0.6	0.8	6.4	13	<0.1	1.6	0.2	18	0.12	0.040
1545571	Soil		0.6	18.3	8.2	47	0.1	15.3	5.4	135	1.63	8.3	1.0	2.5	3.6	15	0.2	0.9	0.2	25	0.15	0.050
1545574	Soil		1.7	34.6	9.6	138	0.1	37.2	7.6	209	2.21	10.9	1.1	1.1	4.3	25	0.8	1.5	0.2	33	0.22	0.075
1545597	Soil		0.4	12.1	6.9	33	0.1	10.9	3.8	87	1.19	6.1	0.6	0.7	1.9	16	<0.1	0.5	<0.1	22	0.18	0.032
1545586	Soil		0.7	16.8	9.6	41	<0.1	14.5	4.8	97	1.49	11.9	0.8	1.2	3.6	15	0.1	0.8	0.2	23	0.17	0.045
1545587	Soil		1.2	17.0	12.2	53	0.1	17.6	6.9	135	2.61	22.4	1.1	3.4	2.7	21	0.1	1.0	0.2	36	0.22	0.069
1545567	Soil		1.2	42.7	19.1	74	0.3	35.1	20.4	563	3.53	16.4	1.9	1.8	3.6	38	0.5	1.4	0.4	41	0.40	0.065
1545598	Soil		0.7	14.0	7.9	42	<0.1	14.0	7.2	180	1.58	9.7	0.7	3.7	3.0	17	<0.1	0.7	0.1	25	0.20	0.056
1545591	Soil		0.7	28.0	12.0	38	0.2	16.9	5.5	126	1.76	11.5	1.0	19.6	1.8	18	0.2	0.9	0.2	23	0.18	0.045
1545588	Soil		0.6	10.0	6.1	32	<0.1	11.1	4.4	92	1.43	8.8	0.6	1.0	2.8	13	<0.1	0.7	0.1	22	0.14	0.044
1545573	Soil		0.8	23.7	9.5	60	0.2	21.8	5.7	131	1.72	9.2	0.8	2.9	4.0	18	0.2	1.0	0.1	26	0.17	0.048
1545569	Soil		0.9	12.6	9.5	55	<0.1	16.5	6.9	190	1.97	11.3	0.7	3.4	4.2	14	<0.1	0.9	0.2	34	0.14	0.029
1545594	Soil		1.0	21.0	17.1	51	<0.1	16.9	8.8	192	1.94	18.7	1.5	2.0	8.2	17	0.1	1.3	0.3	19	0.16	0.039
1545589	Soil		0.8	12.9	10.5	45	0.1	14.6	6.3	130	1.82	10.0	0.7	3.7	3.2	14	<0.1	0.9	0.2	23	0.14	0.042
1545575	Soil		1.3	28.9	10.0	106	0.1	29.5	6.9	197	2.08	13.1	1.1	5.3	5.4	22	0.5	1.5	0.2	26	0.22	0.054
1545570	Soil		0.6	15.2	9.1	52	<0.1	16.1	5.7	139	1.82	9.7	0.8	24.8	3.5	15	0.2	1.3	0.2	20	0.13	0.047
1545449	Soil		0.7	20.6	9.9	50	<0.1	19.2	9.3	289	1.99	10.4	1.0	1.6	6.7	8	0.2	0.7	0.2	17	0.07	0.037
1545465	Soil		0.8	29.3	14.1	112	<0.1	37.2	12.0	460	2.52	12.5	1.1	9.1	8.5	16	0.3	1.1	0.2	25	0.13	0.052
1545469	Soil		0.5	16.8	8.3	45	<0.1	16.4	7.3	331	1.76	10.8	0.9	10.2	3.9	9	0.1	0.7	0.1	20	0.09	0.042
1545590	Soil		0.7	13.4	8.0	42	<0.1	12.7	4.5	91	1.55	11.5	0.7	1.9	2.7	17	<0.1	0.7	0.2	22	0.20	0.041
1545450	Soil		0.7	21.7	10.7	60	<0.1	19.4	8.9	281	1.94	10.3	1.0	0.9	6.3	9	0.2	0.7	0.3	17	0.08	0.036
1545463	Soil		0.8	8.0	10.3	42	<0.1	10.7	5.1	232	2.23	10.8	0.6	1.2	3.5	7	<0.1	0.8	0.2	36	0.07	0.032
1545462	Soil		0.7	17.2	9.4	51	<0.1	15.6	8.6	341	1.86	11.4	1.0	1.0	2.6	8	0.2	0.6	0.2	24	0.07	0.046
1545595	Soil		0.6	17.8	10.9	54	0.1	17.2	6.3	178	1.80	12.0	1.2	1.9	4.0	23	0.2	0.8	0.2	24	0.28	0.048

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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
1545600	Soil		13	20	0.32	157	0.019	<1	1.02	0.003	0.03	0.2	0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
1545601	Soil		13	14	0.25	247	0.011	<1	0.72	0.003	0.03	0.2	0.03	1.8	<0.1	<0.05	3	<0.5	<0.2
1545568	Soil		23	16	0.31	211	0.015	<1	0.82	0.003	0.05	0.1	0.06	1.6	<0.1	<0.05	3	<0.5	<0.2
1545580	Soil		14	14	0.24	310	0.009	<1	0.79	0.003	0.04	0.2	0.05	2.0	<0.1	<0.05	3	<0.5	<0.2
1545582	Soil		12	12	0.24	224	0.006	<1	0.67	0.002	0.03	0.1	0.03	1.3	<0.1	<0.05	2	<0.5	<0.2
1545581	Soil		17	13	0.27	187	0.010	<1	0.81	0.003	0.03	0.3	0.03	1.4	<0.1	<0.05	2	<0.5	<0.2
1545592	Soil		25	12	0.30	72	0.008	1	0.75	0.002	0.05	0.1	0.02	1.1	<0.1	<0.05	3	<0.5	<0.2
1545571	Soil		20	15	0.29	263	0.014	2	0.76	0.003	0.04	0.3	0.06	1.6	<0.1	<0.05	2	<0.5	<0.2
1545574	Soil		15	17	0.31	352	0.016	<1	0.73	0.004	0.06	0.2	0.04	2.6	<0.1	<0.05	2	<0.5	<0.2
1545597	Soil		12	11	0.20	193	0.008	<1	0.64	0.002	0.03	0.2	0.03	1.3	<0.1	<0.05	3	<0.5	<0.2
1545586	Soil		16	12	0.24	166	0.010	<1	0.69	0.003	0.04	0.1	0.03	1.6	<0.1	<0.05	3	<0.5	<0.2
1545587	Soil		19	20	0.36	319	0.008	<1	1.12	0.004	0.05	0.2	0.06	2.0	0.1	<0.05	3	<0.5	<0.2
1545567	Soil		22	26	0.31	618	0.005	1	1.62	0.005	0.09	0.2	0.04	2.6	0.1	<0.05	5	0.7	<0.2
1545598	Soil		14	13	0.27	227	0.013	<1	0.70	0.003	0.03	0.3	0.03	1.7	<0.1	<0.05	2	<0.5	<0.2
1545591	Soil		16	13	0.21	268	0.006	1	0.77	0.003	0.05	0.2	0.05	1.3	<0.1	<0.05	3	<0.5	<0.2
1545588	Soil		15	12	0.24	175	0.009	1	0.71	0.002	0.03	0.1	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1545573	Soil		17	14	0.28	266	0.012	<1	0.80	0.003	0.05	0.2	0.08	2.2	<0.1	<0.05	2	<0.5	<0.2
1545569	Soil		16	19	0.34	193	0.024	<1	0.96	0.004	0.04	0.2	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
1545594	Soil		28	12	0.28	171	0.006	2	0.85	0.003	0.05	0.2	0.04	1.7	<0.1	<0.05	2	<0.5	<0.2
1545589	Soil		16	13	0.27	193	0.007	1	0.89	0.003	0.04	0.2	0.03	1.2	<0.1	<0.05	2	<0.5	<0.2
1545575	Soil		17	16	0.31	287	0.018	3	0.75	0.004	0.06	0.2	0.05	2.7	<0.1	<0.05	2	<0.5	<0.2
1545570	Soil		21	13	0.27	192	0.011	2	0.73	0.003	0.04	0.2	0.03	1.3	<0.1	<0.05	2	<0.5	<0.2
1545449	Soil		28	14	0.34	81	0.013	1	0.80	0.003	0.03	0.3	0.02	1.3	<0.1	<0.05	2	<0.5	<0.2
1545465	Soil		24	20	0.38	270	0.014	<1	0.88	0.003	0.04	0.2	0.06	2.9	<0.1	<0.05	2	<0.5	<0.2
1545469	Soil		16	13	0.26	120	0.016	2	0.74	0.002	0.03	0.2	0.04	1.6	<0.1	<0.05	2	<0.5	<0.2
1545590	Soil		14	13	0.25	155	0.008	1	0.73	0.003	0.04	0.2	0.04	1.4	<0.1	<0.05	2	<0.5	<0.2
1545450	Soil		26	13	0.32	72	0.013	2	0.75	0.002	0.03	0.2	0.03	1.4	<0.1	<0.05	2	<0.5	<0.2
1545463	Soil		13	21	0.30	71	0.031	1	1.18	0.003	0.03	0.2	0.03	1.9	<0.1	<0.05	3	<0.5	<0.2
1545462	Soil		15	17	0.26	111	0.016	1	0.89	0.002	0.03	0.3	0.05	2.0	<0.1	<0.05	2	<0.5	<0.2
1545595	Soil		17	14	0.28	319	0.009	<1	0.89	0.003	0.05	0.2	0.07	2.3	<0.1	<0.05	3	0.6	<0.2

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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
1545444	Soil		0.7	17.9	8.9	49	<0.1	18.1	7.5	210	1.85	10.6	1.0	2.1	3.9	9	0.2	0.8	0.2	26	0.09	0.040
1545468	Soil		0.6	21.8	14.2	59	<0.1	21.3	9.0	357	1.89	11.8	0.8	46.0	3.6	14	0.2	0.9	0.1	23	0.12	0.057
1545467	Soil		0.7	12.9	9.1	44	<0.1	12.7	5.7	207	1.63	12.4	0.8	1.2	1.1	11	<0.1	0.7	0.2	21	0.12	0.046
1545593	Soil		0.4	12.4	7.8	36	<0.1	12.7	4.3	86	1.31	6.4	0.8	1.1	3.1	15	<0.1	0.7	0.1	18	0.15	0.043
1545441	Soil		0.8	48.7	12.8	80	<0.1	84.2	22.0	547	3.47	20.0	1.1	6.0	5.4	11	0.3	1.1	0.2	30	0.07	0.049
1545470	Soil		0.7	13.0	9.0	40	<0.1	11.3	4.6	172	1.68	9.9	0.8	19.7	0.9	8	<0.1	0.6	0.2	25	0.07	0.046
1545464	Soil		0.6	25.4	9.2	55	<0.1	16.8	7.2	253	1.72	13.0	1.1	1.0	4.9	10	0.1	0.8	0.1	21	0.12	0.049
1545466	Soil		0.6	16.2	10.3	55	<0.1	15.7	6.5	245	1.55	12.6	0.9	9.2	3.4	10	0.2	0.8	0.2	23	0.12	0.048
1545451	Soil		0.6	19.1	8.7	48	<0.1	15.4	7.7	229	1.70	14.2	1.1	1.1	5.0	10	0.1	0.7	0.1	19	0.11	0.055
1545446	Soil		0.6	29.4	8.9	50	<0.1	49.1	12.3	341	2.34	15.3	1.2	14.9	4.5	9	0.1	0.8	0.1	34	0.10	0.047
1545437	Soil		0.3	5.5	5.7	14	0.2	5.9	1.6	36	0.92	4.1	0.5	<0.5	0.2	5	0.1	0.1	0.1	14	0.03	0.068
1545436	Soil		0.4	10.7	10.2	18	0.3	10.8	2.1	48	1.04	6.7	0.7	4.6	0.2	7	<0.1	0.3	0.1	15	0.05	0.061
1545452	Soil		0.8	26.9	10.8	64	<0.1	22.0	8.5	326	1.96	10.8	1.1	<0.5	7.8	13	0.1	0.8	0.2	25	0.12	0.039
1545438	Soil		0.7	12.0	7.9	29	<0.1	18.1	3.2	78	1.33	7.3	0.7	0.5	0.4	8	<0.1	0.3	0.2	23	0.05	0.045
1545439	Soil		0.6	13.4	9.3	39	<0.1	16.2	6.7	237	1.74	9.5	0.7	30.1	0.5	10	0.1	0.6	0.2	24	0.10	0.053
1545443	Soil		0.8	39.3	12.5	60	<0.1	41.6	12.0	399	2.72	11.5	1.2	13.2	5.0	13	0.2	0.8	0.2	21	0.09	0.050
1545455	Soil		0.5	15.2	8.5	41	<0.1	11.7	5.2	191	1.49	9.2	0.9	8.8	1.0	9	<0.1	0.5	0.1	23	0.08	0.044
1545448	Soil		0.7	20.4	10.6	44	<0.1	14.6	7.1	216	1.80	16.1	1.0	3.0	4.0	10	<0.1	0.8	0.2	24	0.11	0.049
1545440	Soil		0.9	17.2	9.4	46	<0.1	19.9	6.6	206	1.82	10.1	0.7	1.5	0.5	10	0.1	0.8	0.2	23	0.08	0.044
1545445	Soil		0.6	17.7	8.7	49	<0.1	14.3	5.9	178	1.57	10.6	1.1	1.5	2.3	11	<0.1	0.7	0.2	24	0.11	0.052
1545456	Soil		0.6	21.5	8.7	47	<0.1	15.6	7.1	228	1.60	13.5	1.0	3.9	4.0	9	<0.1	0.8	0.1	18	0.09	0.047
1545458	Soil		0.5	20.6	9.1	47	<0.1	15.4	6.3	212	1.63	12.8	0.8	0.9	3.5	10	0.1	0.7	0.1	18	0.10	0.048
1545447	Soil		0.7	38.0	19.7	60	<0.1	21.0	8.2	262	2.14	10.9	1.7	4.4	7.2	10	0.1	0.9	0.2	17	0.09	0.043
1545442	Soil		0.9	29.4	11.7	58	<0.1	24.4	7.6	226	2.16	9.4	1.2	1.8	3.1	10	0.2	0.8	0.2	24	0.09	0.045
1545453	Soil		0.7	24.7	11.4	56	<0.1	20.1	8.6	264	1.98	7.8	1.1	2.5	6.9	11	0.2	0.7	0.2	18	0.09	0.044
1545460	Soil		0.6	18.2	7.6	42	<0.1	14.7	7.2	324	1.63	10.6	0.7	0.6	3.6	8	0.2	0.6	0.1	19	0.08	0.054
1545454	Soil		0.6	9.0	7.2	42	<0.1	10.4	6.3	239	1.58	11.4	0.6	1.7	1.7	9	0.1	0.6	0.1	19	0.10	0.063
1545461	Soil		0.6	10.4	7.0	35	<0.1	9.7	3.8	132	1.55	10.4	0.6	3.0	1.2	8	<0.1	0.5	0.1	22	0.09	0.054
1545260	Soil		0.6	25.3	9.6	45	<0.1	16.5	8.7	384	1.88	13.8	0.8	101.5	4.3	9	<0.1	3.0	0.2	18	0.08	0.053
1545261	Soil		0.6	16.5	8.7	50	<0.1	14.8	6.1	188	1.79	11.9	0.7	4.6	4.1	8	0.1	1.0	0.1	21	0.08	0.055

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Project: MCQ
Report Date: September 07, 2017

CERTIFICATE OF ANALYSIS WHI17000677.1

	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
1545444	Soil	15	25	0.36	90	0.022	2	0.98	0.003	0.03	0.2	0.04	2.0	<0.1	<0.05	2	<0.5	<0.2
1545468	Soil	15	14	0.29	95	0.017	1	0.74	0.003	0.04	0.3	0.05	1.5	<0.1	<0.05	2	<0.5	<0.2
1545467	Soil	13	13	0.24	91	0.014	<1	0.76	0.002	0.03	0.2	0.02	1.2	<0.1	<0.05	2	0.5	<0.2
1545593	Soil	16	11	0.25	163	0.008	<1	0.74	0.003	0.03	0.2	0.03	1.3	<0.1	<0.05	2	<0.5	<0.2
1545441	Soil	26	73	0.64	200	0.009	<1	1.09	0.003	0.05	0.2	0.05	4.4	<0.1	<0.05	3	0.5	<0.2
1545470	Soil	17	16	0.27	65	0.012	1	0.76	0.002	0.03	0.3	0.03	0.9	<0.1	<0.05	2	0.5	<0.2
1545464	Soil	16	13	0.27	148	0.021	<1	0.71	0.003	0.03	0.2	0.03	2.6	<0.1	<0.05	2	<0.5	<0.2
1545466	Soil	16	13	0.24	84	0.018	<1	0.71	0.003	0.03	0.4	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
1545451	Soil	17	11	0.26	65	0.019	<1	0.64	0.002	0.03	0.3	0.02	2.0	<0.1	<0.05	2	<0.5	<0.2
1545446	Soil	21	82	0.70	218	0.021	<1	1.06	0.003	0.03	0.2	0.04	4.2	<0.1	<0.05	3	<0.5	<0.2
1545437	Soil	10	12	0.14	51	0.003	2	0.55	0.002	0.02	0.1	0.05	0.1	0.1	<0.05	2	<0.5	<0.2
1545436	Soil	10	20	0.17	77	0.003	<1	0.64	0.003	0.03	0.2	0.05	0.4	<0.1	<0.05	2	<0.5	<0.2
1545452	Soil	25	15	0.35	300	0.019	<1	0.84	0.002	0.04	0.3	0.03	2.3	<0.1	<0.05	3	<0.5	<0.2
1545438	Soil	16	34	0.31	77	0.004	1	0.71	0.002	0.03	0.1	0.03	0.4	<0.1	<0.05	3	<0.5	<0.2
1545439	Soil	15	20	0.27	86	0.007	<1	0.77	0.002	0.03	0.3	0.02	0.6	<0.1	<0.05	2	<0.5	<0.2
1545443	Soil	26	29	0.36	250	0.012	<1	0.77	0.003	0.05	0.2	0.04	2.3	<0.1	<0.05	2	<0.5	<0.2
1545455	Soil	15	13	0.22	75	0.012	1	0.75	0.002	0.03	0.2	0.02	1.0	<0.1	<0.05	3	<0.5	<0.2
1545448	Soil	16	13	0.24	99	0.020	<1	0.75	0.002	0.03	0.2	0.03	1.9	<0.1	<0.05	3	<0.5	<0.2
1545440	Soil	15	19	0.25	67	0.008	2	0.71	0.002	0.04	0.3	0.03	0.7	<0.1	<0.05	3	<0.5	<0.2
1545445	Soil	14	14	0.27	125	0.019	<1	0.78	0.003	0.03	0.2	0.03	1.8	<0.1	<0.05	2	<0.5	<0.2
1545456	Soil	15	11	0.23	81	0.015	1	0.65	0.003	0.03	0.3	0.03	1.8	<0.1	<0.05	2	<0.5	<0.2
1545458	Soil	15	12	0.24	108	0.014	<1	0.65	0.002	0.03	0.3	0.03	1.5	<0.1	<0.05	2	<0.5	<0.2
1545447	Soil	23	10	0.23	190	0.013	<1	0.64	0.003	0.05	0.2	0.04	2.3	<0.1	<0.05	2	<0.5	<0.2
1545442	Soil	21	20	0.29	120	0.014	<1	0.75	0.003	0.05	0.2	0.02	2.0	<0.1	<0.05	2	<0.5	<0.2
1545453	Soil	24	13	0.31	277	0.012	<1	0.72	0.002	0.03	0.2	0.03	1.8	<0.1	<0.05	2	<0.5	<0.2
1545460	Soil	13	12	0.25	75	0.014	<1	0.71	0.002	0.02	0.2	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
1545454	Soil	11	12	0.22	51	0.013	2	0.80	0.002	0.03	0.2	0.02	1.1	<0.1	<0.05	2	<0.5	<0.2
1545461	Soil	12	13	0.21	59	0.013	<1	0.69	0.002	0.02	0.3	0.02	1.0	<0.1	<0.05	2	<0.5	<0.2
1545260	Soil	16	12	0.25	155	0.011	2	0.67	0.002	0.03	0.2	0.02	1.9	<0.1	<0.05	2	<0.5	<0.2
1545261	Soil	13	13	0.25	115	0.012	2	0.77	0.002	0.03	0.3	0.03	1.9	<0.1	<0.05	2	<0.5	<0.2

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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
1545259	Soil	0.7	17.6	7.9	45	<0.1	13.3	6.4	243	1.78	10.7	0.7	2.5	3.0	7	<0.1	0.9	0.1	23	0.07	0.052
1545459	Soil	0.7	24.7	8.9	44	<0.1	16.6	7.6	295	1.65	8.6	1.4	3.1	3.5	9	<0.1	0.9	0.1	21	0.11	0.054
1545258	Soil	0.7	21.6	8.6	47	<0.1	13.0	6.5	253	1.92	11.0	0.9	2.1	3.3	7	<0.1	1.2	0.1	25	0.06	0.051
1545254	Soil	0.7	22.8	8.5	51	<0.1	13.6	7.8	245	1.75	11.2	0.7	2.6	3.4	8	<0.1	0.7	0.1	21	0.09	0.051
1545257	Soil	0.6	23.0	8.7	42	<0.1	14.1	6.5	291	1.69	13.1	0.6	3.8	2.5	8	<0.1	0.8	0.1	20	0.08	0.055
1545457	Soil	0.5	19.9	8.5	47	<0.1	14.7	6.8	211	1.78	14.1	0.6	7.2	3.3	9	<0.1	0.8	0.1	19	0.10	0.054
1545252	Soil	0.6	30.4	8.9	52	<0.1	17.4	8.7	383	1.80	12.9	0.6	3.8	3.9	10	<0.1	0.8	0.1	19	0.10	0.060
1545251	Soil	0.5	24.6	8.2	49	<0.1	16.5	7.7	313	1.74	11.7	0.7	14.0	3.6	9	0.1	0.7	0.1	19	0.10	0.053
1545256	Soil	0.7	14.8	8.0	41	<0.1	11.4	5.0	154	1.75	8.4	0.9	1.7	3.7	7	<0.1	0.9	0.1	21	0.07	0.049
1545253	Soil	0.6	22.9	8.6	46	<0.1	14.8	7.1	291	1.78	11.9	0.9	3.7	3.5	9	<0.1	0.8	0.1	20	0.08	0.052
1548001	Soil	0.6	11.4	8.5	27	0.2	9.3	3.3	61	1.68	9.7	0.8	1.5	1.0	11	<0.1	0.8	0.2	21	0.10	0.058
1545283	Soil	0.8	8.5	8.0	28	0.1	8.3	2.7	71	1.50	8.8	0.5	3.6	0.7	6	<0.1	0.9	0.2	22	0.05	0.053
1545277	Soil	0.8	14.1	8.0	38	<0.1	11.9	4.8	144	1.82	9.0	0.8	1.7	3.4	8	<0.1	1.7	0.2	25	0.08	0.048
1545274	Soil	1.0	26.5	19.5	74	<0.1	25.5	10.0	281	3.86	16.3	1.3	<0.5	4.2	7	<0.1	31.3	0.3	20	0.02	0.061
1548002	Soil	0.5	16.3	10.5	28	0.3	11.1	3.5	56	1.45	8.8	1.0	6.0	0.6	12	<0.1	0.7	0.2	22	0.13	0.054
1545282	Soil	0.9	5.2	9.5	25	<0.1	6.9	2.5	81	1.99	11.7	0.3	0.6	1.7	5	<0.1	1.3	0.2	30	0.03	0.054
1545270	Soil	0.4	12.0	8.2	35	<0.1	10.3	4.1	88	1.44	6.6	0.6	2.4	2.7	8	<0.1	1.5	0.1	18	0.08	0.050
1545281	Soil	0.6	17.6	9.7	42	<0.1	13.4	5.7	165	1.71	8.1	1.0	2.5	4.8	9	<0.1	1.4	0.2	21	0.05	0.037
1548006	Soil	0.9	20.8	10.3	41	0.2	16.9	6.1	150	1.93	8.6	1.0	1.7	0.9	11	<0.1	1.3	0.2	22	0.11	0.059
1545284	Soil	0.7	8.9	7.9	34	<0.1	9.9	4.1	123	1.56	10.0	0.5	13.7	1.0	6	0.1	2.3	0.1	23	0.05	0.049
1545278	Soil	0.7	16.6	8.2	39	<0.1	13.0	5.3	125	1.65	9.4	0.9	2.6	4.0	8	<0.1	1.2	0.1	25	0.08	0.046
1545268	Soil	0.7	18.2	9.0	47	<0.1	14.7	5.6	128	1.71	9.7	0.9	1.1	1.9	11	0.1	0.7	0.1	26	0.11	0.059
1548004	Soil	0.7	14.2	8.3	44	<0.1	11.9	5.0	112	1.74	9.7	0.7	25.7	3.4	9	<0.1	1.0	0.1	20	0.09	0.050
1545275	Soil	0.8	23.9	17.2	63	<0.1	21.5	7.9	219	3.12	17.1	1.3	2.3	5.2	7	<0.1	25.8	0.3	17	0.02	0.048
1545279	Soil	0.8	17.8	8.7	48	<0.1	16.2	6.4	172	1.97	10.0	0.8	5.0	4.3	7	0.1	3.0	0.2	21	0.05	0.044
1545280	Soil	0.8	13.3	9.8	38	<0.1	12.0	5.4	172	1.99	11.3	0.8	1.6	3.9	7	<0.1	2.1	0.2	24	0.05	0.047
1545271	Soil	0.6	14.7	8.6	37	<0.1	12.0	5.1	137	1.79	8.7	0.8	13.9	2.8	8	0.1	2.1	0.2	19	0.07	0.045
1545276	Soil	0.9	11.0	8.5	30	<0.1	9.4	3.3	84	1.70	9.7	0.6	1.7	2.2	7	<0.1	1.0	0.2	25	0.05	0.053
1548011	Soil	0.8	23.7	15.2	56	0.2	24.0	8.7	172	2.26	10.2	1.7	51.9	5.1	13	<0.1	1.8	0.3	17	0.09	0.047
1548005	Soil	0.4	12.6	9.5	37	0.2	11.5	3.7	82	1.54	8.1	0.8	2.7	1.9	9	<0.1	0.6	0.1	20	0.08	0.054

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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
1545259	Soil	13	13	0.24	89	0.014	<1	0.70	0.002	0.03	0.2	0.03	1.7	<0.1	<0.05	2	<0.5	<0.2
1545459	Soil	16	13	0.26	169	0.016	2	0.74	0.002	0.03	0.2	0.04	2.3	<0.1	<0.05	2	<0.5	<0.2
1545258	Soil	16	14	0.25	103	0.016	<1	0.86	0.006	0.03	0.4	0.05	2.3	<0.1	<0.05	2	<0.5	<0.2
1545254	Soil	13	13	0.26	181	0.014	1	0.73	0.002	0.03	0.2	0.02	2.1	<0.1	<0.05	2	<0.5	<0.2
1545257	Soil	13	12	0.22	93	0.013	<1	0.63	0.011	0.03	0.2	0.02	1.7	<0.1	<0.05	2	<0.5	<0.2
1545457	Soil	11	12	0.24	80	0.013	<1	0.70	0.002	0.02	0.3	0.02	1.3	<0.1	<0.05	2	<0.5	<0.2
1545252	Soil	13	12	0.25	153	0.013	1	0.65	0.002	0.03	0.2	0.04	2.4	<0.1	<0.05	2	<0.5	<0.2
1545251	Soil	14	11	0.24	99	0.014	<1	0.64	0.003	0.03	0.2	0.03	2.1	<0.1	<0.05	2	<0.5	<0.2
1545256	Soil	17	13	0.25	106	0.013	<1	0.75	0.002	0.03	0.2	0.04	1.6	<0.1	<0.05	2	<0.5	<0.2
1545253	Soil	14	12	0.24	167	0.014	<1	0.67	0.003	0.03	0.2	0.03	2.4	<0.1	<0.05	2	<0.5	<0.2
1548001	Soil	13	11	0.18	136	0.004	<1	0.74	0.003	0.03	0.2	0.05	1.0	0.1	<0.05	2	<0.5	<0.2
1545283	Soil	12	12	0.20	80	0.008	1	0.72	0.002	0.03	0.3	0.03	0.8	<0.1	<0.05	2	0.5	<0.2
1545277	Soil	16	15	0.26	130	0.013	<1	0.80	0.002	0.03	0.3	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
1545274	Soil	33	7	0.06	43	0.005	<1	0.43	0.002	0.05	<0.1	<0.01	1.1	0.1	<0.05	2	<0.5	<0.2
1548002	Soil	13	13	0.18	203	0.004	<1	0.80	0.003	0.03	0.2	0.07	1.0	0.1	<0.05	3	<0.5	<0.2
1545282	Soil	12	12	0.18	50	0.013	<1	0.64	0.002	0.03	0.4	0.02	0.8	<0.1	<0.05	3	<0.5	<0.2
1545270	Soil	15	12	0.24	85	0.009	2	0.74	0.002	0.03	0.2	0.03	0.9	<0.1	<0.05	2	<0.5	<0.2
1545281	Soil	18	13	0.26	136	0.011	1	0.85	0.003	0.03	0.2	0.06	2.1	<0.1	<0.05	2	<0.5	<0.2
1548006	Soil	18	14	0.21	185	0.004	<1	0.81	0.003	0.05	0.2	0.06	1.1	0.1	<0.05	2	<0.5	<0.2
1545284	Soil	12	12	0.21	85	0.010	1	0.74	0.002	0.03	0.3	0.03	1.0	<0.1	<0.05	2	<0.5	<0.2
1545278	Soil	16	15	0.28	163	0.013	<1	0.85	0.002	0.03	0.3	0.04	2.1	<0.1	<0.05	3	<0.5	<0.2
1545268	Soil	14	14	0.28	183	0.015	2	0.90	0.003	0.03	0.3	0.04	1.9	<0.1	<0.05	2	<0.5	<0.2
1548004	Soil	13	13	0.23	107	0.009	<1	0.77	0.002	0.03	0.3	0.04	1.5	<0.1	<0.05	2	<0.5	<0.2
1545275	Soil	29	8	0.10	59	0.004	<1	0.46	0.002	0.04	<0.1	0.02	1.2	0.1	<0.05	2	<0.5	<0.2
1545279	Soil	20	13	0.27	83	0.011	<1	0.72	0.002	0.04	0.2	0.03	1.5	<0.1	<0.05	2	<0.5	<0.2
1545280	Soil	17	13	0.25	130	0.011	<1	0.84	0.002	0.03	0.2	0.04	1.6	<0.1	<0.05	2	<0.5	<0.2
1545271	Soil	19	13	0.28	109	0.009	<1	0.80	0.002	0.03	0.2	0.04	1.2	<0.1	<0.05	2	<0.5	<0.2
1545276	Soil	13	14	0.22	119	0.010	<1	0.83	0.002	0.03	0.2	0.04	1.4	<0.1	<0.05	3	<0.5	<0.2
1548011	Soil	29	14	0.32	106	0.006	<1	0.86	0.003	0.04	0.2	0.03	1.3	<0.1	<0.05	3	<0.5	<0.2
1548005	Soil	13	13	0.22	194	0.007	<1	0.82	0.002	0.03	0.2	0.07	1.6	0.1	<0.05	2	<0.5	<0.2

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Project: MCQ
Report Date: September 07, 2017

CERTIFICATE OF ANALYSIS WHI17000677.1

	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
1545269	Soil	0.7	21.4	8.2	41	<0.1	13.8	6.3	159	1.93	10.4	1.0	3.8	5.8	7	<0.1	3.0	0.2	17	0.07	0.042
1545267	Soil	0.7	14.7	8.4	39	<0.1	13.4	5.6	133	1.47	8.6	0.9	4.8	2.9	9	<0.1	0.7	0.2	26	0.10	0.061
1548009	Soil	0.8	15.2	9.7	46	0.1	16.3	6.3	139	1.98	12.4	0.9	13.3	2.3	8	<0.1	3.0	0.2	22	0.07	0.045
1548010	Soil	1.0	35.9	25.9	74	<0.1	26.8	10.8	179	2.99	6.3	2.3	3.3	10.1	15	0.1	1.0	0.6	14	0.04	0.049
1545272	Soil	0.6	18.3	8.3	42	<0.1	15.0	8.0	186	2.09	8.7	1.0	38.6	5.7	7	<0.1	2.4	0.2	22	0.06	0.043
1545273	Soil	0.7	16.3	8.1	36	<0.1	11.5	4.8	124	1.77	8.2	0.8	8.0	4.0	6	<0.1	1.7	0.2	23	0.05	0.044
1545263	Soil	0.9	18.0	7.8	53	<0.1	16.8	6.4	163	2.04	7.6	0.8	93.5	5.4	8	0.2	3.5	0.2	22	0.07	0.051
1548012	Soil	0.7	19.6	10.0	52	<0.1	17.5	6.7	156	2.04	10.9	1.2	43.5	5.3	10	0.1	0.7	0.2	19	0.07	0.046
1545266	Soil	0.7	19.5	8.5	42	<0.1	14.3	6.3	182	1.71	10.0	0.9	2.8	3.7	8	<0.1	2.3	0.1	22	0.08	0.050
1545265	Soil	0.8	20.9	10.2	46	0.1	13.5	5.4	115	2.05	11.7	1.7	9.1	2.2	10	0.1	0.9	0.2	32	0.10	0.071
1545264	Soil	0.8	14.9	9.4	41	<0.1	13.0	5.3	125	1.91	10.9	0.8	2.0	2.2	8	<0.1	1.3	0.2	27	0.08	0.066
1548008	Soil	0.8	14.0	9.0	48	<0.1	14.2	6.5	166	2.00	9.2	0.8	22.8	2.5	10	0.1	1.4	0.2	23	0.10	0.053
1548373	Soil	0.7	18.3	9.2	48	<0.1	14.4	6.4	146	1.77	13.6	1.1	49.5	3.8	12	<0.1	1.1	0.2	27	0.13	0.065
1548370	Soil	0.8	20.9	10.6	48	0.2	18.7	8.8	339	1.97	13.4	1.3	44.7	3.4	13	<0.1	1.4	0.2	25	0.15	0.054
1548088	Soil	0.6	10.3	7.2	44	<0.1	12.7	6.9	260	1.63	10.0	0.6	2.0	3.0	8	0.1	0.6	0.1	21	0.09	0.066
1548090	Soil	0.6	10.7	6.8	40	<0.1	11.5	4.6	170	1.62	9.9	0.6	1.4	2.2	8	<0.1	0.6	0.1	23	0.09	0.051
1548371	Soil	0.6	15.7	8.3	43	<0.1	13.5	6.9	178	1.65	9.4	1.1	2.9	3.5	9	<0.1	0.8	0.1	26	0.10	0.043
1548377	Soil	0.7	23.6	11.4	57	0.1	18.8	6.6	138	2.16	10.6	1.2	16.4	4.5	10	<0.1	1.6	0.2	23	0.11	0.054
1548369	Soil	0.6	20.6	8.3	50	<0.1	19.7	7.7	194	1.96	12.6	0.8	3.8	6.3	10	<0.1	0.9	0.1	21	0.11	0.039
1548376	Soil	0.6	22.1	8.0	49	<0.1	17.6	6.9	190	1.67	13.8	0.6	8.2	4.3	13	0.1	0.9	0.1	20	0.14	0.060
1548093	Soil	0.6	9.6	6.6	37	<0.1	10.1	5.6	187	1.52	9.3	0.5	1.2	1.3	7	<0.1	0.6	0.1	21	0.08	0.053
1548372	Soil	0.7	16.8	8.2	47	<0.1	16.8	6.7	140	1.83	9.9	0.9	48.9	4.5	13	<0.1	0.9	0.2	23	0.12	0.048
1548368	Soil	0.9	18.7	9.6	54	<0.1	17.1	7.0	180	2.09	13.0	1.0	41.0	5.7	12	0.1	1.3	0.2	24	0.12	0.059
1548378	Soil	0.8	34.6	12.8	79	<0.1	25.6	8.6	215	3.27	13.0	1.6	4.5	10.4	13	0.1	1.8	0.3	21	0.10	0.048
1548087	Soil	0.5	14.1	7.0	48	<0.1	14.9	8.4	346	1.54	12.5	0.6	2.5	3.9	10	0.1	0.7	0.1	18	0.11	0.059
1548375	Soil	0.6	19.4	8.0	49	<0.1	14.7	6.2	147	1.73	9.7	1.1	2.8	4.4	12	<0.1	1.0	0.1	25	0.13	0.051
1548367	Soil	0.7	16.2	10.8	48	<0.1	14.2	6.4	138	1.92	11.8	1.3	1.6	3.8	11	<0.1	0.9	0.2	28	0.10	0.043
1548374	Soil	0.7	20.2	8.9	52	<0.1	16.0	7.1	167	1.88	11.9	1.1	2.6	4.1	13	<0.1	1.3	0.2	27	0.14	0.060
1548091	Soil	0.5	15.1	6.5	50	<0.1	13.7	8.0	334	1.55	10.7	0.6	3.5	3.8	9	0.1	0.7	0.1	19	0.11	0.059
1548086	Soil	0.5	13.5	7.1	47	<0.1	14.5	7.9	302	1.59	11.1	0.6	2.0	4.0	10	0.1	0.7	0.1	18	0.11	0.060

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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
1545269	Soil		25	13	0.35	154	0.009	<1	0.81	0.002	0.03	0.2	0.03	1.8	<0.1	<0.05	2	<0.5	<0.2
1545267	Soil		15	13	0.25	198	0.013	1	0.78	0.004	0.03	0.6	0.03	2.0	<0.1	<0.05	2	<0.5	<0.2
1548009	Soil		18	13	0.22	73	0.007	<1	0.71	0.002	0.03	0.3	0.05	1.1	<0.1	<0.05	3	<0.5	<0.2
1548010	Soil		52	15	0.51	62	0.004	<1	0.98	0.003	0.04	<0.1	0.01	1.2	<0.1	<0.05	3	<0.5	<0.2
1545272	Soil		23	16	0.38	131	0.010	<1	0.92	0.002	0.03	0.1	0.03	1.9	<0.1	<0.05	3	<0.5	<0.2
1545273	Soil		19	14	0.28	113	0.010	<1	0.80	0.002	0.03	0.2	0.03	2.0	<0.1	<0.05	3	<0.5	<0.2
1545263	Soil		22	13	0.27	62	0.014	<1	0.69	0.002	0.03	0.4	0.02	1.3	<0.1	<0.05	2	<0.5	<0.2
1548012	Soil		23	14	0.32	80	0.007	1	0.78	0.002	0.04	0.2	0.03	1.3	<0.1	<0.05	3	<0.5	<0.2
1545266	Soil		18	14	0.26	153	0.012	<1	0.75	0.002	0.03	0.2	0.04	2.0	<0.1	<0.05	3	<0.5	<0.2
1545265	Soil		15	19	0.29	163	0.013	<1	0.95	0.002	0.04	0.2	0.05	2.2	0.1	<0.05	3	0.6	<0.2
1545264	Soil		15	15	0.26	159	0.014	<1	0.83	0.002	0.03	0.3	0.03	1.6	<0.1	<0.05	3	<0.5	<0.2
1548008	Soil		17	14	0.27	84	0.009	<1	0.70	0.002	0.03	0.4	0.02	1.3	<0.1	<0.05	2	<0.5	<0.2
1548373	Soil		16	15	0.29	280	0.013	<1	0.81	0.003	0.04	0.4	0.05	2.4	<0.1	<0.05	2	<0.5	<0.2
1548370	Soil		17	15	0.26	541	0.009	<1	0.84	0.005	0.04	0.4	0.05	2.7	<0.1	<0.05	3	<0.5	<0.2
1548088	Soil		12	13	0.23	95	0.015	<1	0.67	0.002	0.03	0.2	0.02	1.3	<0.1	<0.05	2	<0.5	<0.2
1548090	Soil		13	12	0.22	63	0.015	<1	0.67	0.002	0.03	0.3	0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
1548371	Soil		16	15	0.26	275	0.010	<1	0.84	0.004	0.03	0.4	0.03	2.3	<0.1	<0.05	2	<0.5	<0.2
1548377	Soil		21	15	0.27	214	0.009	<1	0.79	0.003	0.04	0.2	0.05	2.1	<0.1	<0.05	3	<0.5	<0.2
1548369	Soil		21	14	0.29	142	0.012	<1	0.83	0.003	0.05	0.2	0.02	2.0	<0.1	<0.05	2	<0.5	<0.2
1548376	Soil		14	11	0.25	223	0.015	<1	0.57	0.003	0.03	0.3	0.03	1.9	<0.1	<0.05	2	<0.5	<0.2
1548093	Soil		11	12	0.18	57	0.012	<1	0.63	0.002	0.03	0.2	0.02	1.0	<0.1	<0.05	2	<0.5	<0.2
1548372	Soil		17	14	0.27	165	0.011	<1	0.74	0.004	0.03	0.4	0.04	2.0	<0.1	<0.05	2	<0.5	<0.2
1548368	Soil		19	14	0.25	132	0.011	<1	0.69	0.003	0.04	0.4	0.03	1.8	<0.1	<0.05	2	<0.5	<0.2
1548378	Soil		38	19	0.48	218	0.009	<1	1.16	0.003	0.05	0.1	0.03	2.1	<0.1	<0.05	3	<0.5	<0.2
1548087	Soil		13	10	0.20	86	0.012	<1	0.58	0.002	0.03	0.2	0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
1548375	Soil		18	15	0.27	261	0.013	<1	0.79	0.003	0.04	0.3	0.06	2.4	<0.1	<0.05	2	<0.5	<0.2
1548367	Soil		19	16	0.28	210	0.011	<1	0.95	0.003	0.04	0.2	0.06	2.3	<0.1	<0.05	3	<0.5	<0.2
1548374	Soil		17	15	0.28	297	0.013	<1	0.78	0.003	0.04	0.3	0.05	2.5	<0.1	<0.05	3	<0.5	<0.2
1548091	Soil		11	11	0.24	62	0.014	<1	0.74	0.002	0.03	0.2	0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
1548086	Soil		12	11	0.23	60	0.014	<1	0.64	0.002	0.03	0.2	0.01	1.4	<0.1	<0.05	2	<0.5	<0.2

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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
1548089	Soil	0.5	9.6	6.1	43	<0.1	11.8	6.4	185	1.56	9.7	0.5	1.1	2.6	8	<0.1	0.6	0.1	20	0.09	0.060
1548095	Soil	0.6	7.8	7.0	29	<0.1	8.0	3.1	83	1.40	9.4	0.5	22.7	0.6	6	<0.1	0.5	0.1	25	0.06	0.061
1548096	Soil	0.7	10.5	7.5	33	<0.1	9.8	3.5	102	1.53	10.7	0.5	1.0	0.6	7	0.1	0.6	0.1	24	0.06	0.049
1548085	Soil	0.5	12.6	6.3	43	<0.1	12.3	6.2	253	1.54	9.8	0.6	2.4	3.1	8	0.1	0.6	0.1	19	0.09	0.059
1548094	Soil	0.7	8.3	7.0	35	<0.1	8.8	3.9	142	1.66	9.9	0.5	7.4	1.6	7	<0.1	0.5	0.1	24	0.07	0.055
1548092	Soil	0.7	15.9	9.6	41	<0.1	12.8	5.8	159	1.75	7.2	1.0	1.4	1.9	7	0.1	0.5	0.2	19	0.05	0.047
1537578	Soil	0.8	23.7	11.3	63	<0.1	24.9	9.9	373	2.31	10.8	1.0	57.8	7.5	11	0.2	1.7	0.2	20	0.08	0.055
1537572	Soil	0.6	25.1	8.8	46	<0.1	14.4	7.9	197	1.74	7.0	0.9	1.1	6.1	8	0.2	0.8	0.2	16	0.06	0.037
1537580	Soil	0.6	10.7	7.6	32	<0.1	10.2	3.9	149	1.27	8.1	0.6	48.8	0.2	7	0.1	0.6	0.1	21	0.07	0.047
1537573	Soil	0.5	18.2	6.8	45	<0.1	13.4	6.0	178	1.39	9.7	0.6	8.3	4.0	9	0.2	0.7	0.1	15	0.09	0.051
1537571	Soil	0.5	28.0	13.8	65	<0.1	17.3	10.3	226	2.43	4.5	1.4	4.1	11.7	10	0.2	0.6	0.3	10	0.06	0.034
1537581	Soil	0.8	12.8	7.6	30	0.1	12.7	3.4	74	1.40	8.3	0.6	2.2	0.4	6	<0.1	0.7	0.2	20	0.04	0.053
1537582	Soil	0.7	15.4	9.2	34	<0.1	19.3	5.4	124	1.60	13.0	0.6	2.2	0.4	7	<0.1	0.7	0.1	23	0.07	0.052
1537576	Soil	0.6	8.3	6.4	24	<0.1	7.5	2.8	92	1.24	7.3	0.5	8.9	0.2	6	<0.1	0.5	0.1	19	0.05	0.066
1547885	Soil	0.5	25.4	6.7	44	<0.1	15.3	6.7	286	1.51	8.4	1.2	3.4	2.9	7	0.2	0.9	0.2	24	0.07	0.041
1547881	Soil	0.6	10.1	6.8	23	<0.1	7.6	4.2	204	1.10	7.0	0.6	1.2	0.2	5	0.1	0.3	0.1	19	0.04	0.040
1537575	Soil	0.6	21.6	7.4	49	<0.1	15.6	8.7	351	1.68	12.7	0.5	<0.5	3.7	9	0.1	0.9	0.1	17	0.10	0.062
1537579	Soil	0.6	8.8	6.8	26	<0.1	8.5	2.9	88	1.27	7.3	0.5	12.3	0.1	6	<0.1	0.6	0.1	21	0.05	0.050
1537574	Soil	0.6	24.0	7.8	51	<0.1	17.1	8.4	328	1.66	11.9	0.6	6.9	4.2	10	<0.1	0.9	0.1	17	0.12	0.061
1547882	Soil	0.6	10.3	6.8	36	<0.1	9.8	5.9	224	1.54	9.0	0.5	1.7	1.9	6	0.1	0.6	0.1	20	0.06	0.046
1547884	Soil	0.6	9.5	7.0	38	<0.1	10.8	4.3	151	1.52	11.0	0.6	<0.5	2.1	7	0.1	0.6	0.1	22	0.07	0.053
1537577	Soil	0.7	10.0	8.3	40	<0.1	11.0	4.9	224	1.83	10.6	0.5	2.5	2.5	8	0.1	0.7	0.1	22	0.08	0.058
1547862	Soil	0.4	12.2	5.7	39	<0.1	12.2	5.2	266	1.12	6.2	0.6	<0.5	3.2	9	<0.1	0.5	<0.1	16	0.08	0.043
1547887	Soil	0.5	12.0	6.3	33	<0.1	9.6	3.7	101	1.28	7.1	0.6	<0.5	0.7	7	0.1	0.5	0.1	18	0.07	0.049
1547890	Soil	0.5	11.5	6.1	39	<0.1	11.8	5.2	189	1.41	8.8	0.7	1.0	2.6	8	0.1	0.6	<0.1	18	0.08	0.050
1547883	Soil	0.6	11.8	6.7	33	<0.1	10.0	4.1	105	1.34	9.9	0.6	2.2	2.1	7	0.1	0.6	0.1	22	0.08	0.050
1547867	Soil	0.8	12.2	7.4	45	<0.1	12.9	10.2	828	1.85	10.1	0.8	0.5	4.0	5	0.2	0.6	0.1	26	0.04	0.040
1547886	Soil	0.6	10.4	6.8	31	<0.1	9.2	3.8	115	1.28	8.5	0.6	1.0	1.0	7	0.1	0.5	0.1	20	0.08	0.052
1547888	Soil	0.4	13.3	5.1	36	<0.1	12.0	5.1	214	1.11	8.3	0.5	1.5	3.2	7	0.1	0.6	<0.1	14	0.07	0.044
1547889	Soil	0.5	6.9	4.8	23	<0.1	6.5	2.4	71	0.91	6.6	0.4	3.3	0.9	4	<0.1	0.4	0.1	16	0.04	0.036

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Project: MCQ
Report Date: September 07, 2017

CERTIFICATE OF ANALYSIS WHI17000677.1

	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
1548089	Soil	11	11	0.21	57	0.012	<1	0.62	0.002	0.03	0.2	0.02	1.2	<0.1	<0.05	2	<0.5	<0.2
1548095	Soil	11	12	0.18	67	0.010	<1	0.67	0.002	0.03	0.2	0.02	0.9	<0.1	<0.05	2	<0.5	<0.2
1548096	Soil	13	11	0.17	55	0.011	<1	0.56	0.002	0.03	0.5	0.02	0.7	<0.1	<0.05	2	<0.5	<0.2
1548085	Soil	12	12	0.22	67	0.013	<1	0.67	0.002	0.03	0.2	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
1548094	Soil	12	12	0.21	68	0.011	<1	0.76	<0.001	0.03	0.3	0.02	1.2	<0.1	<0.05	2	<0.5	<0.2
1548092	Soil	25	11	0.23	98	0.008	<1	0.66	0.002	0.03	0.1	0.02	1.2	<0.1	<0.05	2	<0.5	<0.2
1537578	Soil	28	13	0.23	118	0.009	3	0.56	0.002	0.04	0.4	0.06	1.5	<0.1	<0.05	2	<0.5	<0.2
1537572	Soil	20	11	0.29	131	0.009	2	0.76	0.002	0.02	0.2	0.03	2.0	<0.1	<0.05	2	<0.5	<0.2
1537580	Soil	12	12	0.18	73	0.006	3	0.63	0.002	0.02	0.4	0.04	0.4	<0.1	<0.05	2	<0.5	<0.2
1537573	Soil	12	9	0.21	51	0.012	<1	0.53	0.002	0.03	0.1	0.01	1.3	<0.1	<0.05	1	<0.5	<0.2
1537571	Soil	32	12	0.41	169	0.004	<1	0.88	0.001	0.02	<0.1	0.03	1.5	<0.1	<0.05	2	<0.5	<0.2
1537581	Soil	13	12	0.15	95	0.004	3	0.55	0.002	0.03	0.2	0.03	0.3	<0.1	<0.05	2	<0.5	<0.2
1537582	Soil	12	25	0.30	92	0.006	3	0.72	0.002	0.03	0.2	0.02	0.7	<0.1	<0.05	2	<0.5	<0.2
1537576	Soil	11	10	0.14	58	0.006	2	0.57	0.002	0.02	0.5	0.04	0.3	<0.1	<0.05	2	<0.5	<0.2
1547885	Soil	14	13	0.23	171	0.014	2	0.81	0.003	0.03	0.2	0.03	2.2	<0.1	<0.05	2	<0.5	<0.2
1547881	Soil	10	9	0.13	126	0.006	2	0.53	0.002	0.02	0.1	0.03	0.5	<0.1	<0.05	2	<0.5	<0.2
1537575	Soil	12	10	0.20	63	0.012	2	0.59	0.002	0.03	0.2	0.01	1.3	<0.1	<0.05	2	<0.5	<0.2
1537579	Soil	11	11	0.16	63	0.005	2	0.62	0.002	0.02	0.2	0.03	0.4	<0.1	<0.05	2	<0.5	<0.2
1537574	Soil	13	11	0.22	72	0.013	1	0.67	0.002	0.03	0.2	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1547882	Soil	12	11	0.18	98	0.011	3	0.65	0.002	0.03	0.2	0.02	1.1	<0.1	<0.05	2	<0.5	<0.2
1547884	Soil	10	12	0.21	107	0.012	<1	0.72	0.002	0.03	0.2	0.02	1.2	<0.1	<0.05	2	<0.5	<0.2
1537577	Soil	12	13	0.20	51	0.013	1	0.67	0.002	0.03	0.5	0.04	1.1	<0.1	<0.05	2	<0.5	<0.2
1547862	Soil	11	9	0.20	92	0.013	1	0.55	0.004	0.03	0.1	<0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
1547887	Soil	11	10	0.18	74	0.009	<1	0.57	0.002	0.02	0.2	0.02	0.9	<0.1	<0.05	2	<0.5	<0.2
1547890	Soil	12	10	0.19	57	0.013	1	0.59	0.002	0.03	0.3	0.02	1.2	<0.1	<0.05	2	<0.5	<0.2
1547883	Soil	12	11	0.19	90	0.013	1	0.66	0.002	0.03	0.2	0.02	1.2	<0.1	<0.05	2	<0.5	<0.2
1547867	Soil	11	14	0.21	117	0.020	<1	0.90	0.002	0.03	0.3	0.03	1.8	<0.1	<0.05	2	<0.5	<0.2
1547886	Soil	12	10	0.18	69	0.011	<1	0.59	0.002	0.03	0.3	0.02	1.0	<0.1	<0.05	2	<0.5	<0.2
1547888	Soil	10	8	0.19	63	0.010	2	0.50	0.002	0.03	0.1	0.01	1.2	<0.1	<0.05	1	<0.5	<0.2
1547889	Soil	9	7	0.13	35	0.008	3	0.45	0.002	0.02	0.3	0.01	0.5	<0.1	<0.05	2	<0.5	<0.2

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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
1548109	Soil		0.4	11.5	6.9	35	<0.1	12.4	3.9	92	1.21	6.5	1.0	<0.5	1.0	8	0.1	0.4	0.1	19	0.08	0.055
1548097	Soil		0.6	7.7	6.2	25	<0.1	7.5	2.7	73	1.31	7.0	0.5	1.6	0.4	6	<0.1	0.4	0.1	20	0.05	0.040
1548108	Soil		0.6	13.9	6.6	39	<0.1	12.1	6.3	211	1.45	8.3	1.0	2.9	1.2	9	0.2	0.7	<0.1	18	0.10	0.048
1545255	Soil		0.5	24.0	7.3	43	<0.1	14.7	6.7	184	1.62	9.8	1.0	2.5	4.0	9	<0.1	1.0	0.1	17	0.10	0.056
1548101	Soil		1.0	28.3	14.5	74	<0.1	25.3	9.9	315	2.65	7.9	1.5	1.4	7.4	12	0.2	1.2	0.2	20	0.08	0.056
1548102	Soil		0.7	10.8	7.3	28	<0.1	9.0	3.7	94	1.21	6.9	0.6	15.7	0.3	6	<0.1	0.5	0.1	18	0.05	0.054
1548105	Soil		0.8	13.4	7.0	36	<0.1	13.5	5.8	291	1.51	8.3	0.7	<0.5	2.7	9	0.1	0.7	0.1	21	0.10	0.054
1545262	Soil		0.6	14.4	9.1	52	<0.1	17.1	10.0	273	1.87	13.1	0.5	16.9	4.2	8	0.2	1.0	0.1	20	0.09	0.057
1548381	Soil		0.7	15.2	10.7	44	<0.1	13.0	5.1	113	1.83	10.5	1.0	4.2	4.5	10	<0.1	1.7	0.2	21	0.10	0.048
1548107	Soil		0.7	19.4	7.9	49	<0.1	16.2	6.8	267	1.87	12.1	1.7	2.1	2.7	11	0.1	0.7	0.1	26	0.11	0.055
1548100	Soil		0.6	11.0	7.2	34	<0.1	9.8	3.6	93	1.37	7.8	0.7	7.9	0.9	7	0.1	0.6	0.1	22	0.07	0.047
1548099	Soil		0.7	15.5	7.8	37	<0.1	12.3	4.2	123	1.48	10.2	0.8	25.2	1.0	8	0.1	0.6	0.1	20	0.07	0.054
1548103	Soil		0.7	18.8	5.8	40	<0.1	12.7	5.4	174	1.43	9.7	0.7	2.8	4.2	8	0.1	0.7	0.1	14	0.08	0.047
1548104	Soil		0.6	11.6	7.1	38	<0.1	12.2	5.1	120	1.36	6.7	0.7	1.3	2.2	9	<0.1	0.5	0.1	17	0.09	0.052
1548106	Soil		0.7	12.9	6.4	41	<0.1	12.6	4.8	132	1.35	8.7	1.0	16.8	3.5	10	0.1	0.6	<0.1	17	0.11	0.048
1548098	Soil		0.6	11.7	8.3	32	<0.1	10.6	3.8	130	1.44	7.6	0.8	7.2	1.8	8	<0.1	0.6	0.1	21	0.08	0.052
1548113	Soil		0.5	13.3	7.6	47	<0.1	15.0	7.2	278	1.49	8.5	0.6	1.7	4.0	9	0.1	0.6	<0.1	15	0.09	0.056
1548388	Soil		0.9	28.8	10.2	64	<0.1	22.5	7.6	190	2.37	13.0	1.4	226.3	10.0	12	0.2	1.3	0.3	16	0.10	0.042
1548382	Soil		0.6	10.8	10.6	35	0.1	13.2	5.4	115	1.91	10.1	0.8	2.1	2.6	18	<0.1	1.1	0.2	20	0.18	0.047
1548115	Soil		0.4	17.9	8.2	53	<0.1	17.7	7.8	217	1.54	11.3	0.6	0.7	4.6	11	0.1	0.7	0.1	15	0.11	0.048
1548118	Soil		0.6	13.3	7.1	41	<0.1	14.1	5.8	274	1.42	9.5	0.7	2.4	3.4	9	0.1	0.7	0.1	17	0.10	0.047
1548386	Soil		0.6	13.4	10.3	39	0.1	12.9	4.7	99	1.93	8.7	0.9	2.1	2.9	10	0.1	0.9	0.2	24	0.09	0.056
1548119	Soil		0.6	20.9	8.2	47	<0.1	15.6	7.5	342	1.59	10.0	0.7	1.4	3.9	9	<0.1	0.7	0.1	17	0.10	0.059
1548384	Soil		0.9	20.7	11.7	48	0.1	16.4	6.3	141	2.06	10.8	1.2	4.8	3.3	10	<0.1	1.3	0.2	22	0.10	0.047
1548117	Soil		0.5	12.3	6.8	41	<0.1	13.0	6.4	176	1.52	7.4	0.5	2.0	3.7	9	<0.1	0.6	0.1	16	0.09	0.053
1548116	Soil		0.6	23.3	9.8	44	<0.1	18.3	7.9	215	1.70	7.8	1.0	2.3	4.4	9	<0.1	0.6	0.1	19	0.08	0.036
1548387	Soil		0.6	14.3	11.4	39	<0.1	12.5	4.3	82	1.66	9.8	1.0	1.3	3.3	10	<0.1	0.8	0.2	23	0.09	0.043
1548380	Soil		0.8	28.3	12.8	70	<0.1	27.4	8.9	205	2.54	10.3	1.2	14.5	9.0	14	0.2	2.5	0.2	20	0.12	0.055
1548111	Soil		0.6	8.0	7.5	43	<0.1	11.3	5.4	212	1.57	10.1	0.5	<0.5	3.7	9	0.1	0.7	0.1	16	0.10	0.054
1548110	Soil		0.4	12.3	5.6	42	<0.1	13.3	6.4	183	1.30	7.3	0.5	0.6	3.9	9	0.2	0.5	<0.1	14	0.09	0.046

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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
1548109	Soil	11	11	0.21	201	0.010	2	0.69	0.003	0.03	0.3	0.04	1.1	<0.1	<0.05	2	<0.5	<0.2
1548097	Soil	10	10	0.16	64	0.008	1	0.53	0.002	0.02	0.2	0.02	0.6	<0.1	<0.05	2	<0.5	<0.2
1548108	Soil	13	10	0.20	102	0.010	<1	0.58	0.002	0.03	0.2	0.02	1.0	<0.1	<0.05	2	<0.5	<0.2
1545255	Soil	16	11	0.24	84	0.012	1	0.67	0.003	0.02	0.2	0.03	1.9	<0.1	<0.05	2	<0.5	<0.2
1548101	Soil	30	14	0.32	160	0.009	<1	0.75	0.002	0.05	0.2	0.05	1.8	<0.1	<0.05	2	<0.5	<0.2
1548102	Soil	12	10	0.17	76	0.006	2	0.58	0.002	0.02	0.6	0.03	0.4	<0.1	<0.05	2	<0.5	<0.2
1548105	Soil	14	12	0.24	130	0.012	<1	0.62	0.002	0.03	0.4	0.02	1.2	<0.1	<0.05	2	0.5	<0.2
1545262	Soil	11	13	0.25	65	0.013	1	0.80	0.002	0.03	0.2	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1548381	Soil	19	13	0.23	173	0.008	1	0.79	0.002	0.03	0.3	0.03	1.8	0.1	<0.05	2	<0.5	<0.2
1548107	Soil	15	15	0.27	221	0.015	2	0.88	0.003	0.03	0.2	0.04	2.4	<0.1	<0.05	2	0.5	<0.2
1548100	Soil	12	11	0.19	103	0.009	<1	0.66	0.002	0.03	0.2	0.03	1.1	<0.1	<0.05	2	<0.5	<0.2
1548099	Soil	14	11	0.19	133	0.008	<1	0.67	0.002	0.03	0.3	0.03	1.2	<0.1	<0.05	2	<0.5	<0.2
1548103	Soil	13	8	0.20	77	0.012	3	0.53	0.002	0.02	0.1	0.03	1.2	<0.1	<0.05	1	<0.5	<0.2
1548104	Soil	12	9	0.19	107	0.010	2	0.60	0.002	0.02	0.2	0.03	1.0	<0.1	<0.05	2	<0.5	<0.2
1548106	Soil	13	10	0.20	137	0.013	1	0.58	0.002	0.03	0.1	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
1548098	Soil	13	11	0.20	95	0.013	1	0.62	0.002	0.03	0.4	0.02	1.0	<0.1	<0.05	2	<0.5	<0.2
1548113	Soil	13	9	0.21	71	0.012	2	0.62	0.002	0.02	0.2	0.02	1.1	<0.1	<0.05	2	<0.5	<0.2
1548388	Soil	33	13	0.34	205	0.008	1	0.79	0.003	0.04	0.1	0.03	1.7	<0.1	<0.05	3	<0.5	<0.2
1548382	Soil	15	13	0.24	193	0.005	<1	0.84	0.003	0.03	0.3	0.04	1.3	<0.1	<0.05	2	<0.5	<0.2
1548115	Soil	13	10	0.23	66	0.013	<1	0.65	0.002	0.03	0.2	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1548118	Soil	13	10	0.21	79	0.014	1	0.59	0.002	0.03	0.2	0.02	1.3	<0.1	<0.05	2	<0.5	<0.2
1548386	Soil	16	14	0.24	144	0.008	1	0.87	0.003	0.03	0.2	0.04	1.4	<0.1	<0.05	2	<0.5	<0.2
1548119	Soil	14	10	0.23	71	0.014	<1	0.63	0.002	0.03	0.2	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1548384	Soil	23	14	0.28	188	0.008	1	0.81	0.003	0.04	0.4	0.04	1.4	<0.1	<0.05	2	<0.5	<0.2
1548117	Soil	12	10	0.24	56	0.013	1	0.62	0.002	0.02	0.1	0.01	1.0	<0.1	<0.05	2	<0.5	<0.2
1548116	Soil	18	11	0.23	164	0.013	<1	0.70	0.002	0.03	0.2	0.04	2.0	<0.1	<0.05	2	<0.5	<0.2
1548387	Soil	17	13	0.24	184	0.007	2	0.87	0.003	0.03	0.2	0.06	1.6	<0.1	<0.05	3	<0.5	<0.2
1548380	Soil	31	14	0.33	278	0.011	<1	0.76	0.004	0.05	0.2	0.03	2.0	<0.1	<0.05	2	<0.5	<0.2
1548111	Soil	10	9	0.20	45	0.015	<1	0.52	0.002	0.03	0.2	0.02	1.1	<0.1	<0.05	2	<0.5	<0.2
1548110	Soil	11	9	0.22	57	0.011	1	0.60	0.002	0.02	0.1	0.01	1.0	<0.1	<0.05	1	<0.5	<0.2

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Project: MCQ
Report Date: September 07, 2017

CERTIFICATE OF ANALYSIS WHI17000677.1

	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
1548379	Soil	0.8	21.0	12.0	55	<0.1	19.1	7.5	157	2.31	12.2	1.0	9.8	6.2	13	0.1	1.7	0.2	19	0.12	0.053
1548385	Soil	0.6	15.6	10.4	37	0.2	13.1	5.4	96	1.72	8.6	0.9	3.6	3.4	11	<0.1	0.8	0.2	25	0.11	0.042
1548396	Soil	0.6	23.2	8.6	46	<0.1	16.3	6.5	168	1.80	9.3	0.9	7.8	3.8	10	<0.1	1.0	0.2	22	0.10	0.051
1548112	Soil	0.4	12.5	7.3	52	<0.1	15.4	7.7	344	1.48	9.9	0.5	3.3	4.1	10	0.2	0.7	0.1	16	0.11	0.052
1548390	Soil	0.7	22.0	9.3	57	<0.1	17.0	6.9	189	2.19	7.6	1.0	17.0	6.4	11	<0.1	0.9	0.2	19	0.09	0.044
1548383	Soil	0.6	24.3	10.0	52	<0.1	20.5	9.0	197	2.18	8.7	1.1	0.9	5.0	12	<0.1	1.0	0.2	18	0.10	0.046
1548392	Soil	0.9	20.8	8.4	50	<0.1	16.5	7.3	157	1.84	15.3	1.2	3.8	4.2	15	0.1	1.0	0.1	21	0.15	0.050
1548391	Soil	0.7	17.5	8.1	49	<0.1	14.9	5.9	131	1.65	9.7	1.0	6.3	4.2	12	<0.1	0.9	0.2	24	0.12	0.046
1548114	Soil	0.6	17.1	7.6	44	<0.1	16.1	7.2	280	1.62	10.5	0.5	1.3	3.3	9	<0.1	0.7	0.1	17	0.09	0.055
1548398	Soil	0.7	16.0	8.2	42	<0.1	14.1	6.0	161	1.72	8.8	0.8	1.0	3.3	10	<0.1	0.8	0.1	21	0.09	0.043
1548395	Soil	0.6	21.9	9.0	53	<0.1	17.7	6.0	200	1.79	10.5	1.0	3.8	5.7	13	<0.1	1.2	0.2	18	0.12	0.039
1548393	Soil	0.9	17.8	9.6	45	<0.1	16.3	6.7	135	2.27	11.0	1.0	0.9	3.3	12	<0.1	0.8	0.2	26	0.11	0.054
1548399	Soil	0.8	16.7	9.0	43	<0.1	13.7	6.0	152	1.71	10.7	0.9	2.2	1.9	12	<0.1	0.8	0.2	23	0.14	0.039
1548400	Soil	0.7	18.9	9.1	46	0.1	15.9	5.8	134	1.79	8.8	0.8	22.8	1.4	11	<0.1	0.9	0.1	22	0.09	0.043
1548402	Soil	0.8	15.8	9.0	40	<0.1	13.8	5.1	122	1.76	10.4	0.8	1.4	2.5	11	<0.1	0.8	0.2	26	0.12	0.041
1548394	Soil	0.7	19.9	8.5	36	<0.1	17.8	7.8	211	1.81	9.1	0.8	2.1	3.6	13	<0.1	0.8	0.1	25	0.13	0.041
1548397	Soil	0.7	20.2	8.5	55	<0.1	19.1	6.6	162	1.78	11.0	0.8	1.6	5.2	12	0.1	1.7	0.2	17	0.10	0.041
1548389	Soil	0.9	26.0	11.0	57	<0.1	16.8	6.9	168	2.48	9.9	1.1	9.0	6.6	10	0.1	1.2	0.3	17	0.08	0.038
1547875	Soil	0.5	10.7	7.0	38	<0.1	10.4	4.5	143	1.35	7.7	0.7	1.7	0.7	7	0.1	0.5	0.1	19	0.06	0.049
1537600	Soil	0.9	11.2	9.0	39	<0.1	11.9	4.9	162	1.82	10.2	0.7	5.8	2.1	10	<0.1	0.7	0.2	23	0.10	0.053
1537601	Soil	0.6	14.5	8.8	41	<0.1	13.9	6.4	195	1.79	7.3	0.9	126.1	3.3	9	<0.1	0.7	0.2	19	0.08	0.046
1537603	Soil	0.4	15.4	8.4	45	<0.1	16.1	5.7	141	1.57	8.7	0.6	2.7	3.3	12	<0.1	0.5	0.1	17	0.13	0.054
1547877	Soil	0.7	16.0	9.5	40	<0.1	17.6	8.0	732	1.69	8.8	0.8	1.8	3.0	12	0.2	0.5	0.2	15	0.15	0.045
1537599	Soil	0.7	12.5	8.8	43	<0.1	13.2	5.5	170	1.86	9.2	0.7	4.2	2.4	10	<0.1	0.7	0.2	23	0.10	0.057
1537598	Soil	0.8	15.0	8.4	41	<0.1	12.7	5.6	219	1.85	10.6	0.8	15.5	1.1	9	0.1	0.7	0.2	24	0.09	0.053
1537606	Soil	0.5	18.9	7.0	49	<0.1	15.6	8.8	400	1.57	11.6	0.6	2.1	4.2	10	0.1	0.8	0.1	16	0.11	0.057
1547874	Soil	0.7	9.1	6.5	34	<0.1	9.5	4.1	130	1.36	8.9	0.6	2.4	1.2	7	<0.1	0.5	0.1	19	0.07	0.054
1537596	Soil	0.7	12.6	8.4	36	<0.1	11.8	5.4	244	1.82	8.9	0.7	2.4	1.1	7	<0.1	0.8	0.2	21	0.06	0.046
1537602	Soil	0.7	12.9	8.1	41	<0.1	13.8	6.0	206	1.89	9.9	0.9	3.3	1.4	11	<0.1	0.6	0.2	26	0.12	0.047
1537605	Soil	0.5	22.5	7.4	45	<0.1	15.6	6.8	275	1.60	11.3	0.7	2.8	4.2	10	0.2	0.8	0.1	17	0.10	0.055

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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
1548379	Soil	23	12	0.27	202	0.010	<1	0.73	0.003	0.04	0.4	0.04	1.9	<0.1	<0.05	2	<0.5	<0.2
1548385	Soil	18	15	0.27	256	0.008	<1	0.96	0.003	0.03	0.2	0.05	1.8	0.1	<0.05	3	<0.5	<0.2
1548396	Soil	17	13	0.26	186	0.012	<1	0.76	0.003	0.03	0.2	0.04	2.1	<0.1	<0.05	2	<0.5	<0.2
1548112	Soil	12	10	0.21	82	0.013	<1	0.57	0.002	0.03	0.2	0.01	1.3	<0.1	<0.05	2	<0.5	<0.2
1548390	Soil	29	16	0.38	219	0.009	1	0.97	0.003	0.04	0.2	0.03	1.6	<0.1	<0.05	2	<0.5	<0.2
1548383	Soil	24	13	0.30	168	0.009	<1	0.79	0.003	0.03	0.2	0.03	1.5	<0.1	<0.05	2	<0.5	<0.2
1548392	Soil	15	12	0.26	319	0.015	<1	0.69	0.004	0.03	0.2	0.03	2.1	<0.1	<0.05	2	0.6	<0.2
1548391	Soil	18	14	0.29	233	0.014	<1	0.76	0.003	0.03	0.2	0.06	2.0	<0.1	<0.05	2	<0.5	<0.2
1548114	Soil	13	12	0.23	116	0.012	<1	0.68	0.003	0.03	0.2	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1548398	Soil	15	13	0.25	204	0.010	<1	0.78	0.002	0.03	0.2	0.03	1.7	<0.1	<0.05	2	<0.5	<0.2
1548395	Soil	22	13	0.30	238	0.012	<1	0.70	0.003	0.04	0.3	0.03	2.0	<0.1	<0.05	2	<0.5	<0.2
1548393	Soil	17	15	0.28	290	0.011	1	0.89	0.003	0.03	0.2	0.03	2.0	<0.1	<0.05	2	0.6	<0.2
1548399	Soil	13	14	0.26	233	0.010	<1	0.79	0.003	0.03	0.1	0.03	1.6	<0.1	<0.05	2	<0.5	<0.2
1548400	Soil	14	14	0.26	219	0.008	<1	0.79	0.002	0.03	0.2	0.04	1.2	<0.1	<0.05	2	<0.5	<0.2
1548402	Soil	15	15	0.25	239	0.010	<1	0.90	0.003	0.04	0.2	0.04	1.8	<0.1	<0.05	2	0.5	<0.2
1548394	Soil	16	16	0.29	393	0.017	1	0.83	0.004	0.03	0.1	0.03	2.2	<0.1	<0.05	2	<0.5	<0.2
1548397	Soil	19	12	0.24	94	0.012	<1	0.59	0.002	0.04	0.2	0.03	1.7	<0.1	<0.05	2	<0.5	<0.2
1548389	Soil	28	15	0.37	186	0.008	<1	0.87	0.003	0.04	0.2	0.04	1.7	<0.1	<0.05	3	<0.5	<0.2
1547875	Soil	11	10	0.19	89	0.009	<1	0.61	0.002	0.03	0.2	0.03	0.9	<0.1	<0.05	2	<0.5	<0.2
1537600	Soil	14	13	0.22	95	0.010	1	0.74	0.002	0.03	0.4	0.02	1.3	<0.1	<0.05	2	<0.5	<0.2
1537601	Soil	19	12	0.21	93	0.009	<1	0.62	0.002	0.03	0.4	0.03	1.3	<0.1	<0.05	2	<0.5	<0.2
1537603	Soil	13	11	0.23	82	0.010	1	0.65	0.002	0.03	0.2	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1547877	Soil	18	9	0.23	154	0.008	<1	0.54	0.002	0.03	0.2	0.03	1.4	<0.1	<0.05	1	<0.5	<0.2
1537599	Soil	14	14	0.24	104	0.010	2	0.80	0.002	0.03	0.4	0.01	1.3	<0.1	<0.05	2	<0.5	<0.2
1537598	Soil	13	14	0.24	105	0.011	<1	0.79	0.002	0.03	0.3	0.02	1.2	<0.1	<0.05	2	<0.5	<0.2
1537606	Soil	13	11	0.23	69	0.012	<1	0.64	0.002	0.03	0.2	0.02	1.4	<0.1	<0.05	1	<0.5	<0.2
1547874	Soil	12	10	0.18	77	0.010	<1	0.58	0.002	0.03	0.3	0.02	0.8	<0.1	<0.05	2	<0.5	<0.2
1537596	Soil	15	12	0.21	85	0.009	<1	0.68	0.002	0.03	0.3	0.02	1.0	<0.1	<0.05	2	<0.5	<0.2
1537602	Soil	13	15	0.27	160	0.012	<1	0.87	0.003	0.03	0.2	0.04	1.6	<0.1	<0.05	2	<0.5	<0.2
1537605	Soil	14	11	0.24	89	0.014	<1	0.61	0.002	0.03	0.2	0.04	1.9	<0.1	<0.05	2	<0.5	<0.2

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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
1547879	Soil	0.5	14.0	6.5	26	<0.1	11.1	2.9	111	1.20	6.9	0.8	1.1	0.2	7	0.2	0.4	0.1	18	0.05	0.042
1537595	Soil	0.6	11.8	7.4	35	<0.1	11.2	4.4	145	1.54	9.3	0.7	1.5	1.6	9	<0.1	0.5	0.1	20	0.08	0.055
1537597	Soil	0.6	13.1	7.8	31	<0.1	9.9	3.2	84	1.39	8.4	0.8	2.1	0.7	8	<0.1	0.4	0.1	22	0.07	0.055
1537604	Soil	0.6	10.0	7.5	46	<0.1	13.9	8.4	351	1.71	10.6	0.6	2.9	4.0	11	0.2	0.8	0.1	17	0.12	0.054
1537586	Soil	0.6	12.2	8.4	35	<0.1	10.8	4.6	107	1.28	6.5	0.8	2.6	0.6	6	<0.1	0.5	0.2	21	0.05	0.044
1537587	Soil	0.6	13.2	7.8	32	<0.1	11.2	4.3	127	1.66	10.3	0.7	3.9	0.7	6	<0.1	0.7	0.1	22	0.05	0.042
1547880	Soil	0.6	13.2	8.4	40	<0.1	12.6	5.2	171	1.69	9.8	0.6	1.3	4.5	8	<0.1	0.7	0.1	19	0.07	0.049
1547872	Soil	0.5	16.3	6.2	44	<0.1	13.4	5.6	222	1.45	8.3	0.8	1.5	4.0	9	0.2	0.5	0.1	21	0.09	0.047
1537585	Soil	0.6	11.3	6.9	28	<0.1	9.1	3.5	78	1.25	7.5	0.7	2.2	0.3	7	<0.1	0.5	0.1	20	0.07	0.047
1537594	Soil	0.6	12.1	7.7	35	<0.1	12.2	4.5	119	1.54	9.7	0.6	20.6	0.8	9	<0.1	0.7	0.1	20	0.08	0.049
1547873	Soil	0.5	9.6	6.2	45	<0.1	12.7	7.1	328	1.41	8.3	1.1	2.2	3.9	8	0.2	0.7	0.1	17	0.08	0.046
1547878	Soil	0.4	11.2	5.2	43	<0.1	14.5	6.1	257	1.23	8.1	0.6	1.8	3.7	10	0.3	0.6	0.1	13	0.10	0.047
1537592	Soil	0.6	14.7	6.4	42	<0.1	11.7	4.7	149	1.45	8.8	0.7	13.0	2.8	9	0.1	0.7	0.1	17	0.09	0.052
1537588	Soil	0.7	21.3	7.7	46	<0.1	14.7	6.8	179	1.75	10.8	1.0	2.2	3.9	9	0.1	0.8	0.2	22	0.08	0.051
1537593	Soil	0.5	15.7	7.9	43	<0.1	14.3	5.2	171	1.66	11.8	0.7	26.6	3.6	10	<0.1	0.8	0.1	18	0.10	0.054
1547876	Soil	0.5	11.8	5.4	35	<0.1	11.7	3.7	107	1.30	8.5	0.5	3.7	1.8	8	<0.1	0.6	0.1	15	0.07	0.042
1537589	Soil	0.4	12.6	7.5	38	0.2	13.0	6.0	128	1.31	4.5	0.7	2.9	3.1	10	<0.1	0.4	0.1	19	0.10	0.044
1537590	Soil	0.6	21.9	8.9	49	<0.1	23.1	8.7	222	2.10	10.8	1.1	2.9	6.1	11	0.1	0.8	0.2	18	0.08	0.046
1537591	Soil	0.4	14.1	5.8	37	<0.1	12.1	4.2	93	1.20	5.6	0.7	3.2	3.2	10	0.1	0.5	0.1	17	0.11	0.048
1547871	Soil	0.4	9.7	6.1	50	<0.1	14.8	6.7	182	1.49	11.4	0.5	1.6	4.1	9	0.1	0.6	0.1	16	0.09	0.050

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Dawson City Yukon Y0B 1G0 Canada

Project: MCQ
Report Date: September 07, 2017

CERTIFICATE OF ANALYSIS WHI17000677.1

	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
1547879	Soil	17	9	0.16	256	0.006	<1	0.57	0.002	0.03	0.2	0.06	0.7	<0.1	<0.05	2	<0.5	<0.2
1537595	Soil	13	12	0.23	126	0.011	<1	0.64	0.002	0.03	0.2	0.03	1.2	<0.1	<0.05	2	<0.5	<0.2
1537597	Soil	15	12	0.19	150	0.007	<1	0.66	0.002	0.03	0.3	0.04	0.7	<0.1	<0.05	2	<0.5	<0.2
1537604	Soil	13	12	0.25	55	0.014	<1	0.73	0.002	0.03	0.2	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1537586	Soil	14	14	0.22	89	0.009	<1	0.73	0.002	0.03	0.3	0.06	0.9	<0.1	<0.05	2	<0.5	<0.2
1537587	Soil	16	12	0.22	85	0.009	<1	0.64	0.002	0.03	0.2	0.04	0.9	<0.1	<0.05	2	<0.5	<0.2
1547880	Soil	14	11	0.21	73	0.012	<1	0.65	0.002	0.03	0.2	0.01	1.3	<0.1	<0.05	2	<0.5	<0.2
1547872	Soil	13	11	0.22	94	0.016	<1	0.74	0.002	0.03	0.2	0.02	1.8	<0.1	<0.05	2	<0.5	<0.2
1537585	Soil	13	12	0.19	81	0.007	<1	0.68	0.003	0.03	0.2	0.03	0.7	<0.1	<0.05	2	<0.5	<0.2
1537594	Soil	15	12	0.22	123	0.009	<1	0.63	0.002	0.03	0.5	0.06	0.9	<0.1	<0.05	2	<0.5	<0.2
1547873	Soil	13	10	0.21	78	0.013	<1	0.70	0.003	0.03	0.2	0.03	1.6	<0.1	<0.05	2	<0.5	<0.2
1547878	Soil	11	8	0.19	72	0.010	<1	0.49	0.002	0.03	0.1	0.02	1.3	<0.1	<0.05	1	<0.5	<0.2
1537592	Soil	14	10	0.21	104	0.012	<1	0.58	0.002	0.03	0.3	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
1537588	Soil	18	13	0.26	124	0.013	<1	0.73	0.002	0.03	0.2	0.04	2.0	<0.1	<0.05	2	<0.5	<0.2
1537593	Soil	16	11	0.22	77	0.013	<1	0.56	0.002	0.03	0.5	0.03	1.3	<0.1	<0.05	2	0.6	<0.2
1547876	Soil	10	8	0.18	63	0.009	<1	0.47	0.002	0.03	0.2	<0.01	1.0	<0.1	<0.05	1	<0.5	<0.2
1537589	Soil	14	13	0.27	137	0.012	<1	0.73	0.002	0.03	0.2	0.04	1.5	<0.1	<0.05	2	<0.5	<0.2
1537590	Soil	22	20	0.32	150	0.010	<1	0.73	0.002	0.03	0.1	0.03	2.1	<0.1	<0.05	2	0.5	<0.2
1537591	Soil	12	10	0.23	111	0.012	<1	0.59	0.004	0.02	0.2	0.03	1.3	<0.1	<0.05	2	<0.5	<0.2
1547871	Soil	11	10	0.22	68	0.015	<1	0.65	0.003	0.03	0.1	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2

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QUALITY CONTROL REPORT WHI17000677.1

		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
Pulp Duplicates																						
1545870	Soil		0.4	15.4	7.5	40	<0.1	15.5	7.3	252	1.59	12.8	0.6	<0.5	3.8	8	<0.1	0.7	0.1	16	0.08	0.045
REP 1545870	QC		0.3	14.0	7.0	40	<0.1	14.5	6.9	241	1.47	12.2	0.6	<0.5	3.9	7	<0.1	0.8	0.1	15	0.08	0.039
1548026	Soil		0.7	18.7	13.1	45	0.1	17.0	6.3	119	2.29	99.0	1.0	9.4	9.0	13	<0.1	5.1	0.3	18	0.02	0.026
REP 1548026	QC		0.7	18.1	13.3	44	0.1	16.8	6.4	123	2.28	101.6	1.0	11.9	8.9	13	<0.1	5.1	0.2	18	0.02	0.027
1545598	Soil		0.7	14.0	7.9	42	<0.1	14.0	7.2	180	1.58	9.7	0.7	3.7	3.0	17	<0.1	0.7	0.1	25	0.20	0.056
REP 1545598	QC		0.6	12.4	7.2	39	<0.1	13.5	7.2	187	1.66	8.3	0.6	3.6	2.8	16	<0.1	0.7	0.1	26	0.19	0.056
1545445	Soil		0.6	17.7	8.7	49	<0.1	14.3	5.9	178	1.57	10.6	1.1	1.5	2.3	11	<0.1	0.7	0.2	24	0.11	0.052
REP 1545445	QC		0.6	17.5	8.8	50	<0.1	15.2	6.4	202	1.67	10.4	1.1	1.3	2.2	12	0.1	0.7	0.1	23	0.11	0.055
1545280	Soil		0.8	13.3	9.8	38	<0.1	12.0	5.4	172	1.99	11.3	0.8	1.6	3.9	7	<0.1	2.1	0.2	24	0.05	0.047
REP 1545280	QC		0.8	13.7	9.6	37	<0.1	11.8	5.4	174	1.95	12.0	0.8	1.8	3.8	7	<0.1	2.2	0.2	23	0.05	0.045
1548095	Soil		0.6	7.8	7.0	29	<0.1	8.0	3.1	83	1.40	9.4	0.5	22.7	0.6	6	<0.1	0.5	0.1	25	0.06	0.061
REP 1548095	QC		0.6	7.5	6.6	29	<0.1	7.9	3.1	80	1.37	9.2	0.5	1.0	0.5	6	<0.1	0.4	0.1	24	0.06	0.061
1545262	Soil		0.6	14.4	9.1	52	<0.1	17.1	10.0	273	1.87	13.1	0.5	16.9	4.2	8	0.2	1.0	0.1	20	0.09	0.057
REP 1545262	QC		0.6	14.6	9.6	59	<0.1	17.7	10.2	280	1.98	13.8	0.5	10.7	4.7	9	0.2	0.9	0.1	21	0.09	0.058
1548400	Soil		0.7	18.9	9.1	46	0.1	15.9	5.8	134	1.79	8.8	0.8	22.8	1.4	11	<0.1	0.9	0.1	22	0.09	0.043
REP 1548400	QC		0.7	17.7	9.0	47	<0.1	14.5	5.4	124	1.62	10.5	0.8	1.9	1.6	11	0.1	0.9	0.2	21	0.11	0.041
1537589	Soil		0.4	12.6	7.5	38	0.2	13.0	6.0	128	1.31	4.5	0.7	2.9	3.1	10	<0.1	0.4	0.1	19	0.10	0.044
REP 1537589	QC		0.4	12.4	7.4	39	0.2	13.1	6.0	132	1.31	4.9	0.7	13.0	3.3	10	<0.1	0.4	0.1	19	0.09	0.046
Reference Materials																						
STD DS11	Standard		15.0	156.9	146.9	353	1.8	80.8	14.6	1054	3.25	43.6	2.9	68.6	8.7	73	2.3	10.1	13.3	53	1.06	0.071
STD DS11	Standard		13.7	150.8	138.6	333	1.8	76.8	13.6	1037	3.12	44.1	2.6	95.8	7.8	68	2.3	9.4	12.0	47	1.01	0.073
STD DS11	Standard		14.1	141.5	137.9	333	1.7	73.6	12.8	976	3.02	43.8	2.5	91.6	7.4	68	2.2	8.9	11.6	46	1.05	0.068
STD DS11	Standard		14.1	144.7	132.4	335	1.7	76.3	13.7	984	3.10	42.5	2.5	66.9	7.2	63	2.4	8.6	11.5	49	1.03	0.075
STD DS11	Standard		15.4	148.3	145.9	346	1.6	80.1	12.7	972	2.93	43.7	3.0	57.7	8.2	68	2.2	9.0	13.3	47	1.03	0.059
STD DS11	Standard		14.2	145.3	130.0	327	1.7	76.9	12.9	1022	3.09	43.6	2.5	60.4	7.6	69	2.3	9.1	11.9	48	1.07	0.073
STD DS11	Standard		13.3	145.0	142.4	308	1.8	83.3	13.3	1062	3.10	40.0	2.7	66.6	7.8	67	2.1	9.0	13.5	48	1.01	0.065
STD DS11	Standard		14.6	147.9	142.9	357	1.8	75.3	12.7	978	2.91	43.9	3.0	74.0	8.6	72	2.2	9.2	13.6	55	1.10	0.064
STD DS11	Standard		13.1	148.4	137.8	339	1.8	77.5	13.7	1032	3.14	44.6	2.7	140.5	7.9	72	2.4	9.2	13.6	50	1.03	0.068

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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																		
1545870	Soil	13	11	0.25	72	0.015	<1	0.68	0.003	0.03	0.2	<0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
REP 1545870	QC	13	10	0.24	69	0.014	<1	0.64	0.002	0.03	0.2	<0.01	1.4	<0.1	<0.05	1	<0.5	<0.2
1548026	Soil	30	11	0.23	62	0.005	<1	0.73	0.003	0.04	0.1	0.01	1.0	<0.1	<0.05	2	<0.5	<0.2
REP 1548026	QC	30	11	0.23	63	0.005	<1	0.73	0.002	0.04	0.1	0.03	1.0	<0.1	<0.05	2	<0.5	<0.2
1545598	Soil	14	13	0.27	227	0.013	<1	0.70	0.003	0.03	0.3	0.03	1.7	<0.1	<0.05	2	<0.5	<0.2
REP 1545598	QC	14	14	0.28	226	0.012	<1	0.76	0.003	0.03	0.3	0.03	1.5	<0.1	<0.05	2	<0.5	<0.2
1545445	Soil	14	14	0.27	125	0.019	<1	0.78	0.003	0.03	0.2	0.03	1.8	<0.1	<0.05	2	<0.5	<0.2
REP 1545445	QC	14	15	0.29	125	0.020	<1	0.83	0.003	0.03	0.2	0.03	1.7	<0.1	<0.05	3	0.7	<0.2
1545280	Soil	17	13	0.25	130	0.011	<1	0.84	0.002	0.03	0.2	0.04	1.6	<0.1	<0.05	2	<0.5	<0.2
REP 1545280	QC	18	14	0.24	129	0.011	2	0.82	0.002	0.03	0.2	0.03	1.6	<0.1	<0.05	2	<0.5	<0.2
1548095	Soil	11	12	0.18	67	0.010	<1	0.67	0.002	0.03	0.2	0.02	0.9	<0.1	<0.05	2	<0.5	<0.2
REP 1548095	QC	11	11	0.18	63	0.012	<1	0.64	0.002	0.03	0.3	0.02	0.8	<0.1	<0.05	2	<0.5	<0.2
1545262	Soil	11	13	0.25	65	0.013	1	0.80	0.002	0.03	0.2	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
REP 1545262	QC	12	14	0.26	71	0.014	<1	0.84	0.002	0.03	0.2	0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
1548400	Soil	14	14	0.26	219	0.008	<1	0.79	0.002	0.03	0.2	0.04	1.2	<0.1	<0.05	2	<0.5	<0.2
REP 1548400	QC	13	13	0.24	208	0.009	<1	0.76	0.003	0.03	0.2	0.04	1.3	<0.1	<0.05	2	<0.5	<0.2
1537589	Soil	14	13	0.27	137	0.012	<1	0.73	0.002	0.03	0.2	0.04	1.5	<0.1	<0.05	2	<0.5	<0.2
REP 1537589	QC	14	13	0.26	140	0.012	<1	0.73	0.002	0.03	0.2	0.03	1.5	<0.1	<0.05	2	<0.5	<0.2
Reference Materials																		
STD DS11	Standard	20	61	0.86	381	0.100	7	1.14	0.071	0.42	2.9	0.26	3.2	4.9	0.28	5	2.0	4.6
STD DS11	Standard	18	58	0.82	364	0.091	9	1.11	0.063	0.41	3.1	0.26	3.0	4.7	0.27	5	2.5	4.5
STD DS11	Standard	18	55	0.82	365	0.090	9	1.11	0.063	0.40	3.0	0.26	3.3	4.9	0.26	4	2.1	4.4
STD DS11	Standard	18	57	0.85	358	0.084	6	1.12	0.068	0.40	2.8	0.28	3.5	4.9	0.28	5	2.0	4.5
STD DS11	Standard	19	54	0.79	363	0.098	7	1.06	0.073	0.41	2.8	0.26	3.3	4.7	0.22	5	2.3	4.4
STD DS11	Standard	18	57	0.87	363	0.095	7	1.16	0.073	0.41	3.0	0.25	3.2	4.8	0.27	5	2.2	4.5
STD DS11	Standard	21	58	0.83	368	0.092	7	1.17	0.070	0.39	2.7	0.28	3.2	5.1	0.26	4	2.2	4.4
STD DS11	Standard	20	62	0.83	369	0.107	7	1.09	0.071	0.43	3.1	0.29	3.4	4.9	0.24	5	1.9	5.0
STD DS11	Standard	19	57	0.83	387	0.090	6	1.11	0.069	0.39	3.2	0.26	3.3	5.1	0.24	5	1.8	4.3

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		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
STD OXC129	Standard	1.4	28.9	6.9	42	<0.1	83.6	21.1	416	3.10	0.7	0.8	208.4	2.2	189	<0.1	<0.1	<0.1	55	0.68	0.110
STD OXC129	Standard	1.2	27.0	6.2	39	<0.1	76.7	19.8	410	2.99	1.0	0.7	201.9	1.8	177	<0.1	<0.1	<0.1	52	0.61	0.097
STD OXC129	Standard	1.2	25.3	6.2	39	<0.1	72.6	19.0	382	2.91	<0.5	0.7	194.9	1.8	178	<0.1	<0.1	<0.1	49	0.63	0.100
STD OXC129	Standard	1.3	27.1	6.4	43	<0.1	79.1	21.0	433	3.17	0.7	0.7	201.2	1.8	196	<0.1	<0.1	<0.1	56	0.66	0.110
STD OXC129	Standard	1.3	27.2	6.7	38	<0.1	77.2	19.4	411	2.97	<0.5	0.8	203.2	2.1	177	<0.1	<0.1	<0.1	57	0.73	0.100
STD OXC129	Standard	1.2	27.5	6.2	40	<0.1	76.1	19.8	421	3.01	<0.5	0.7	196.2	1.9	197	<0.1	<0.1	<0.1	52	0.72	0.104
STD OXC129	Standard	1.3	29.4	7.2	39	<0.1	90.0	22.1	459	3.34	<0.5	0.8	195.9	2.0	204	<0.1	<0.1	<0.1	54	0.72	0.105
STD OXC129	Standard	1.3	26.7	6.6	41	<0.1	79.0	18.5	412	2.96	0.7	0.8	194.6	2.1	205	<0.1	<0.1	<0.1	57	0.73	0.093
STD OXC129	Standard	1.1	27.2	6.3	40	<0.1	78.1	20.1	413	3.03	0.5	0.7	200.4	2.0	201	<0.1	<0.1	<0.1	52	0.68	0.100
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	<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	<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	<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	<2	<0.01	<0.001

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Client: **Ryanwood Exploration Inc.**
Box 213
Dawson City Yukon Y0B 1G0 Canada

Project: MCQ
Report Date: September 07, 2017

QUALITY CONTROL REPORT WHI17000677.1

		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
STD OXC129	Standard	13	54	1.55	51	0.433	<1	1.59	0.618	0.39	<0.1	<0.01	1.2	0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	12	49	1.45	50	0.393	3	1.40	0.553	0.35	<0.1	<0.01	0.7	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	12	46	1.49	48	0.371	1	1.43	0.595	0.35	<0.1	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	13	52	1.64	53	0.394	<1	1.60	0.599	0.38	<0.1	<0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	14	52	1.54	52	0.430	2	1.51	0.643	0.39	0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	13	52	1.49	51	0.389	1	1.56	0.600	0.38	<0.1	<0.01	0.8	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	14	56	1.59	51	0.403	1	1.65	0.579	0.37	0.1	<0.01	0.7	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	13	55	1.47	49	0.425	<1	1.43	0.558	0.35	<0.1	<0.01	0.8	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	13	50	1.56	51	0.398	<1	1.53	0.586	0.35	<0.1	<0.01	1.0	<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
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
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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Client: **Ryanwood Exploration Inc.**
Box 213
Dawson City Yukon Y0B 1G0 Canada

Submitted By: Shawn Ryan
Receiving Lab: Canada-Whitehorse
Received: August 23, 2017
Report Date: September 08, 2017
Page: 1 of 5

CERTIFICATE OF ANALYSIS WHI17000679.1

CLIENT JOB INFORMATION

Project: MCQ
Shipment ID: MCQ-20170822-001-SOIL
P.O. Number
Number of Samples: 112

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.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	112	Dry at 60C			WHI
SS80	112	Dry at 60C sieve 100g to -80 mesh			WHI
AQ201	112	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
SHP01	112	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

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

CC: Isaac Fage
Jodie Gibson

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Production Manager

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

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Client: **Ryanwood Exploration Inc.**
Box 213
Dawson City Yukon Y0B 1G0 Canada

Project: MCQ
Report Date: September 08, 2017

CERTIFICATE OF ANALYSIS WHI17000679.1

		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
1547775	Soil		0.7	24.2	8.4	51	<0.1	16.6	9.5	300	1.87	10.7	1.1	1.2	3.8	8	<0.1	1.0	0.2	26	0.07	0.045
1547776	Soil		1.1	14.1	11.4	61	0.1	16.3	10.2	313	2.62	18.1	0.8	13.9	3.6	7	0.3	1.2	0.2	39	0.05	0.041
1547773	Soil		0.6	12.8	7.3	39	<0.1	11.9	7.1	258	1.58	9.0	0.7	0.7	3.7	9	<0.1	0.8	0.1	21	0.09	0.085
1547778	Soil		0.9	10.4	9.2	38	<0.1	10.2	3.7	87	1.66	9.9	0.7	37.6	0.4	8	0.1	1.0	0.2	29	0.07	0.058
1547780	Soil		0.6	19.6	11.9	44	0.1	12.8	5.3	119	1.59	9.1	1.5	180.8	3.9	10	<0.1	1.1	0.2	29	0.09	0.052
1547751	Soil		0.6	29.1	8.7	53	<0.1	19.3	8.8	283	1.88	12.0	0.8	<0.5	4.1	11	0.1	0.9	0.1	21	0.11	0.051
1547754	Soil		0.7	13.1	8.6	33	<0.1	9.4	3.6	88	1.64	9.3	1.2	1.2	0.4	9	<0.1	0.5	0.2	29	0.08	0.062
1547752	Soil		0.8	24.1	8.9	47	<0.1	16.7	7.9	304	1.89	11.8	0.9	1.6	2.9	12	<0.1	0.8	0.2	25	0.11	0.058
1547779	Soil		0.9	12.4	10.9	41	<0.1	11.3	6.1	179	1.97	13.1	0.9	32.7	4.1	7	0.1	1.3	0.2	30	0.04	0.036
1547771	Soil		0.7	20.3	8.6	43	<0.1	12.7	6.4	198	1.92	11.6	0.7	2.5	4.5	8	<0.1	1.1	0.2	23	0.08	0.053
1547758	Soil		0.7	20.9	9.1	49	<0.1	15.6	6.2	198	1.74	10.2	1.1	3.3	3.5	11	<0.1	1.4	0.2	26	0.11	0.049
1547755	Soil		0.9	29.7	11.6	60	<0.1	20.4	9.9	351	2.32	12.5	1.1	20.1	5.9	9	0.2	8.7	0.2	25	0.06	0.043
1547774	Soil		0.8	28.5	10.2	52	0.1	15.4	9.8	354	2.15	12.6	1.7	7.4	3.1	9	<0.1	1.0	0.2	36	0.07	0.041
1547757	Soil		0.7	11.8	7.9	36	<0.1	11.6	4.9	133	1.73	10.7	0.7	49.1	1.0	8	<0.1	1.5	0.1	26	0.08	0.058
1547777	Soil		1.1	10.8	9.5	45	<0.1	11.4	4.4	162	1.86	25.2	0.4	1.4	0.3	6	0.1	2.5	0.2	37	0.03	0.055
1547756	Soil		0.8	19.7	10.4	42	<0.1	13.3	6.0	171	1.90	8.6	1.0	3.9	1.1	7	0.1	2.8	0.2	22	0.06	0.052
1545396	Soil		0.7	23.4	13.9	50	<0.1	20.4	8.5	212	2.28	6.1	1.4	32.4	6.4	8	0.1	0.9	0.2	17	0.05	0.039
1548321	Soil		0.7	13.8	9.1	39	<0.1	11.2	5.1	139	1.66	9.8	0.9	<0.5	3.8	7	0.1	1.3	0.2	26	0.05	0.038
1548323	Soil		0.9	22.0	10.3	49	<0.1	15.6	5.9	180	2.00	10.0	1.1	2.2	4.7	8	0.2	1.6	0.2	27	0.06	0.045
1547772	Soil		0.7	21.0	8.4	48	<0.1	14.6	7.2	243	1.73	11.8	1.0	1.9	4.0	9	0.1	1.0	0.1	21	0.09	0.053
1547760	Soil		0.8	15.8	9.1	46	<0.1	13.4	6.4	156	1.83	11.9	1.0	4.5	3.1	10	<0.1	0.9	0.2	26	0.10	0.061
1547753	Soil		0.6	29.2	8.6	46	<0.1	17.9	7.1	280	1.71	11.9	0.8	0.9	5.0	11	0.2	0.8	0.1	19	0.10	0.050
1548316	Soil		0.6	20.1	10.1	43	<0.1	14.1	5.5	129	1.55	10.0	1.0	1.8	3.1	11	0.1	1.6	0.2	26	0.10	0.050
1548324	Soil		0.7	13.2	9.9	35	<0.1	10.2	3.8	92	1.75	10.1	0.8	25.5	1.2	8	<0.1	0.9	0.2	27	0.07	0.060
1547759	Soil		0.7	13.5	10.4	35	<0.1	10.4	4.7	132	1.67	8.0	0.8	1.8	0.6	8	<0.1	0.9	0.2	24	0.06	0.050
1545529	Soil		0.6	15.2	9.2	45	<0.1	13.9	6.1	143	1.70	11.0	0.8	7.7	4.5	10	<0.1	1.0	0.2	22	0.08	0.040
1545532	Soil		0.6	10.2	9.5	39	<0.1	9.6	4.6	113	1.73	10.0	0.7	49.4	1.2	10	<0.1	1.0	0.1	24	0.08	0.051
1545508	Soil		0.8	17.9	9.1	43	<0.1	14.4	6.5	191	1.89	11.2	0.9	1.2	3.2	8	<0.1	1.8	0.1	26	0.06	0.044
1545515	Soil		0.7	19.1	9.8	47	<0.1	15.0	7.2	169	1.93	22.7	1.0	24.9	6.1	9	<0.1	6.6	0.2	20	0.08	0.047
1545510	Soil		0.9	35.5	13.3	76	<0.1	32.0	11.6	342	2.87	10.5	1.3	1.6	10.3	11	0.2	4.4	0.3	23	0.07	0.041

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Project: MCQ
Report Date: September 08, 2017

CERTIFICATE OF ANALYSIS WHI17000679.1

		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
1547775	Soil		19	15	0.29	137	0.018	2	0.80	0.003	0.03	0.2	0.04	2.8	<0.1	<0.05	2	<0.5	<0.2
1547776	Soil		13	22	0.31	111	0.026	2	1.22	0.004	0.04	0.3	0.03	2.1	<0.1	<0.05	4	<0.5	<0.2
1547773	Soil		14	12	0.25	104	0.014	3	0.70	0.002	0.02	0.2	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1547778	Soil		14	14	0.25	124	0.008	<1	0.78	0.003	0.03	0.3	0.03	0.7	<0.1	<0.05	3	<0.5	<0.2
1547780	Soil		18	16	0.26	193	0.016	2	0.94	0.002	0.03	0.4	0.05	2.3	<0.1	<0.05	3	<0.5	<0.2
1547751	Soil		16	12	0.26	219	0.016	<1	0.65	0.002	0.03	0.2	0.04	2.7	<0.1	<0.05	2	<0.5	<0.2
1547754	Soil		14	16	0.25	115	0.012	1	0.89	0.003	0.03	0.2	0.04	0.9	<0.1	<0.05	3	<0.5	<0.2
1547752	Soil		16	15	0.27	240	0.016	<1	0.74	0.003	0.03	0.2	0.03	2.2	<0.1	<0.05	2	<0.5	<0.2
1547779	Soil		15	16	0.25	116	0.016	2	0.91	0.003	0.03	0.3	0.03	1.9	<0.1	<0.05	3	<0.5	<0.2
1547771	Soil		15	14	0.26	86	0.014	1	0.76	0.003	0.03	0.3	0.03	1.5	<0.1	<0.05	2	<0.5	<0.2
1547758	Soil		17	15	0.28	176	0.016	1	0.79	0.003	0.03	0.2	0.04	2.2	<0.1	<0.05	3	<0.5	<0.2
1547755	Soil		26	15	0.29	296	0.012	1	0.82	0.002	0.03	0.2	0.04	2.3	<0.1	<0.05	3	0.5	<0.2
1547774	Soil		20	20	0.32	308	0.021	2	1.13	0.003	0.04	0.2	0.05	3.4	<0.1	<0.05	3	0.6	<0.2
1547757	Soil		16	14	0.23	114	0.012	<1	0.72	0.002	0.03	0.2	0.02	1.0	<0.1	<0.05	2	<0.5	<0.2
1547777	Soil		14	13	0.16	49	0.007	2	0.58	0.002	0.04	0.3	0.02	0.4	<0.1	<0.05	3	<0.5	<0.2
1547756	Soil		21	14	0.28	113	0.010	<1	0.78	0.003	0.03	0.2	0.04	1.3	<0.1	<0.05	2	<0.5	<0.2
1545396	Soil		34	14	0.31	107	0.008	<1	0.70	0.002	0.03	0.1	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1548321	Soil		17	14	0.25	96	0.014	<1	0.79	0.002	0.03	0.3	0.06	1.6	<0.1	<0.05	3	<0.5	<0.2
1548323	Soil		21	16	0.27	125	0.014	1	0.81	0.003	0.03	0.2	0.03	2.3	<0.1	<0.05	3	<0.5	<0.2
1547772	Soil		17	12	0.25	99	0.014	<1	0.69	0.002	0.03	0.3	0.01	2.0	<0.1	<0.05	2	<0.5	<0.2
1547760	Soil		17	15	0.30	200	0.015	<1	0.77	0.003	0.03	0.2	0.03	2.1	<0.1	<0.05	2	0.6	<0.2
1547753	Soil		17	12	0.24	169	0.015	1	0.61	0.002	0.03	0.2	0.05	2.2	<0.1	<0.05	2	<0.5	<0.2
1548316	Soil		16	15	0.28	189	0.013	1	0.78	0.003	0.03	0.3	0.04	2.0	<0.1	<0.05	2	<0.5	<0.2
1548324	Soil		17	15	0.24	149	0.011	2	0.83	0.003	0.03	0.4	0.04	1.2	<0.1	<0.05	3	0.5	<0.2
1547759	Soil		18	15	0.25	112	0.009	<1	0.82	0.002	0.03	0.2	0.03	0.8	<0.1	<0.05	3	<0.5	<0.2
1545529	Soil		18	14	0.31	98	0.013	1	0.80	0.002	0.03	0.2	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1545532	Soil		15	13	0.27	102	0.010	<1	0.76	0.003	0.03	0.4	0.04	1.0	<0.1	<0.05	3	<0.5	<0.2
1545508	Soil		18	14	0.26	103	0.013	<1	0.74	0.002	0.03	0.2	0.03	1.9	<0.1	<0.05	2	<0.5	<0.2
1545515	Soil		20	13	0.28	126	0.011	<1	0.75	0.002	0.03	0.2	0.03	1.6	<0.1	<0.05	2	<0.5	<0.2
1545510	Soil		32	20	0.39	259	0.009	<1	0.90	0.002	0.05	0.2	0.05	2.6	<0.1	<0.05	3	<0.5	<0.2

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Client: **Ryanwood Exploration Inc.**
Box 213
Dawson City Yukon Y0B 1G0 Canada

Project: MCQ
Report Date: September 08, 2017

CERTIFICATE OF ANALYSIS WHI17000679.1

		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
1545512	Soil		0.9	34.6	13.5	77	<0.1	33.1	12.4	346	2.83	10.9	1.4	1.0	10.3	11	0.3	4.2	0.3	25	0.06	0.047
1548322	Soil		0.7	12.9	8.7	38	<0.1	11.9	4.3	139	1.68	9.6	0.8	1.2	2.0	8	<0.1	1.0	0.2	25	0.07	0.041
1545507	Soil		0.9	23.1	9.9	52	<0.1	16.7	7.3	266	2.06	9.6	1.3	1.7	5.5	8	0.2	1.7	0.2	24	0.07	0.046
1545384	Soil		0.8	13.6	9.1	39	<0.1	10.5	4.1	113	1.63	10.4	0.9	4.4	1.3	8	<0.1	0.9	0.3	28	0.07	0.059
1545383	Soil		1.0	28.5	11.0	69	<0.1	21.8	8.6	232	2.35	10.3	1.1	98.4	2.9	12	0.2	1.7	0.3	27	0.10	0.065
1548313	Soil		0.6	9.6	8.1	30	0.1	9.0	3.1	62	1.30	7.1	0.7	4.5	0.2	6	<0.1	0.4	0.2	24	0.05	0.055
1545525	Soil		0.7	37.0	11.6	59	<0.1	21.2	8.2	311	2.03	12.5	1.2	39.3	6.8	11	0.3	1.1	0.3	22	0.09	0.056
1545387	Soil		0.8	8.9	9.0	28	<0.1	8.1	2.9	70	1.36	21.9	0.5	11.2	0.4	8	<0.1	0.9	0.2	22	0.06	0.048
1548314	Soil		0.6	17.3	10.0	34	<0.1	9.9	3.9	85	1.34	7.9	1.0	4.5	0.7	8	<0.1	0.5	0.2	26	0.07	0.062
1545388	Soil		0.7	21.5	9.5	52	<0.1	15.5	7.0	236	2.04	12.7	0.9	6.2	3.9	8	0.1	2.8	0.2	29	0.08	0.052
1545386	Soil		0.7	9.6	8.1	36	<0.1	9.7	4.0	75	1.90	9.9	0.8	47.1	1.2	9	<0.1	0.6	0.2	25	0.09	0.060
1548319	Soil		0.8	16.7	10.7	39	<0.1	11.0	4.9	130	2.06	11.7	1.2	3.2	2.8	7	<0.1	1.8	0.2	29	0.06	0.070
1545381	Soil		0.8	17.2	9.6	42	<0.1	16.8	5.8	157	1.83	8.9	1.0	5.6	0.7	8	0.1	0.9	0.2	25	0.05	0.058
1548318	Soil		0.8	14.0	9.4	39	<0.1	10.8	4.5	91	1.70	11.3	0.9	2.8	2.2	9	<0.1	1.4	0.2	26	0.08	0.064
1548317	Soil		0.7	20.8	11.4	52	<0.1	15.8	6.9	183	1.92	12.6	1.0	9.9	2.9	11	0.1	1.9	0.2	25	0.09	0.068
1545385	Soil		0.7	10.2	9.3	35	<0.1	9.0	3.7	69	1.49	8.7	0.7	1.1	0.2	6	<0.1	0.5	0.2	27	0.05	0.054
1548315	Soil		0.9	17.1	10.1	48	<0.1	14.2	6.8	219	1.96	11.7	0.8	2.5	3.9	9	0.1	2.3	0.2	26	0.08	0.062
1548320	Soil		0.8	25.8	10.6	55	<0.1	18.2	9.3	283	2.15	8.6	1.2	2.9	7.7	9	0.1	3.4	0.2	24	0.07	0.046
1545382	Soil		0.7	11.0	7.8	29	<0.1	8.5	2.9	67	1.30	7.2	0.7	1.7	0.2	6	<0.1	0.5	0.2	23	0.05	0.048
1545397	Soil		0.8	30.2	13.1	57	<0.1	24.6	8.9	209	2.38	7.1	1.6	1.5	7.4	8	<0.1	1.1	0.3	19	0.04	0.043
1545398	Soil		0.6	25.1	9.1	53	<0.1	15.5	8.3	265	1.85	12.6	0.8	4.5	5.0	9	<0.1	0.8	0.2	20	0.09	0.058
1545399	Soil		0.6	14.7	8.2	47	<0.1	13.7	7.3	238	1.72	10.8	0.8	1.9	4.5	10	0.1	0.7	0.1	22	0.10	0.061
1545395	Soil		0.8	25.0	11.4	54	<0.1	20.0	8.5	266	2.10	10.3	1.3	1.7	4.2	8	0.2	1.2	0.2	22	0.07	0.055
1545390	Soil		0.6	12.7	9.0	35	<0.1	11.4	4.5	97	1.51	8.5	0.8	0.8	0.6	9	<0.1	0.6	0.2	26	0.09	0.055
1545400	Soil		0.6	15.8	8.4	46	<0.1	14.9	7.5	255	1.79	11.0	1.0	0.5	5.0	10	0.1	0.8	0.1	22	0.10	0.065
1545374	Soil		0.6	19.9	10.1	45	<0.1	14.3	6.2	197	1.91	8.9	1.2	1.9	4.2	8	<0.1	0.8	0.2	23	0.06	0.049
1545375	Soil		0.7	24.8	10.7	52	<0.1	17.0	8.2	276	2.09	8.7	1.3	1.4	7.6	9	0.2	0.9	0.2	20	0.06	0.050
1545391	Soil		0.7	11.0	8.8	32	<0.1	9.4	3.8	88	1.56	9.3	0.7	6.4	0.3	7	<0.1	0.5	0.2	24	0.06	0.060
1545392	Soil		0.7	13.0	9.6	37	<0.1	10.5	4.3	104	1.71	10.1	0.9	1.1	0.8	7	<0.1	0.6	0.2	28	0.06	0.058
1545402	Soil		0.8	36.2	14.6	66	<0.1	25.1	10.0	261	2.70	7.3	2.0	118.5	12.9	9	0.2	1.0	0.3	20	0.06	0.049

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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
1545512	Soil		34	21	0.41	269	0.011	<1	0.94	0.003	0.05	0.2	0.04	2.7	<0.1	<0.05	3	<0.5	<0.2
1548322	Soil		15	14	0.24	97	0.013	<1	0.77	0.002	0.03	0.2	0.03	1.4	<0.1	<0.05	3	<0.5	<0.2
1545507	Soil		20	15	0.30	113	0.014	<1	0.88	0.002	0.03	0.3	0.04	2.2	<0.1	<0.05	2	<0.5	<0.2
1545384	Soil		16	16	0.23	91	0.013	1	0.80	0.002	0.02	0.2	0.03	1.3	<0.1	<0.05	3	<0.5	<0.2
1545383	Soil		26	18	0.33	123	0.013	1	0.82	0.003	0.03	0.3	0.03	1.5	<0.1	<0.05	3	<0.5	<0.2
1548313	Soil		12	13	0.20	80	0.005	<1	0.71	0.002	0.02	0.1	0.03	0.3	<0.1	<0.05	2	<0.5	<0.2
1545525	Soil		25	15	0.31	227	0.013	<1	0.75	0.002	0.03	0.2	0.03	2.1	<0.1	<0.05	2	<0.5	<0.2
1545387	Soil		12	11	0.18	145	0.007	2	0.59	0.002	0.03	0.2	0.03	0.5	<0.1	<0.05	2	<0.5	<0.2
1548314	Soil		15	15	0.21	169	0.006	<1	0.83	0.003	0.03	0.2	0.05	0.7	<0.1	<0.05	3	<0.5	<0.2
1545388	Soil		16	17	0.28	120	0.018	1	0.86	0.003	0.03	0.3	0.02	1.7	<0.1	<0.05	2	<0.5	<0.2
1545386	Soil		14	13	0.21	126	0.009	<1	0.74	0.002	0.02	0.3	0.04	1.0	<0.1	<0.05	2	<0.5	<0.2
1548319	Soil		18	17	0.24	101	0.013	1	0.91	0.003	0.03	0.2	0.03	2.0	<0.1	<0.05	3	<0.5	<0.2
1545381	Soil		20	20	0.27	96	0.007	<1	0.77	0.002	0.03	0.3	0.02	0.6	<0.1	<0.05	2	<0.5	<0.2
1548318	Soil		16	15	0.25	104	0.013	<1	0.85	0.003	0.03	0.3	0.03	1.5	<0.1	<0.05	2	<0.5	<0.2
1548317	Soil		18	15	0.27	86	0.013	1	0.77	0.003	0.03	0.3	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1545385	Soil		13	15	0.22	73	0.006	<1	0.79	0.002	0.03	0.2	0.03	0.4	<0.1	<0.05	3	<0.5	<0.2
1548315	Soil		16	15	0.25	86	0.015	<1	0.78	0.003	0.03	0.3	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1548320	Soil		29	17	0.34	124	0.016	<1	0.85	0.003	0.03	0.2	0.02	2.0	<0.1	<0.05	2	<0.5	<0.2
1545382	Soil		15	13	0.19	69	0.006	<1	0.69	0.002	0.02	0.2	0.04	0.3	<0.1	<0.05	2	<0.5	<0.2
1545397	Soil		37	20	0.33	85	0.010	<1	0.76	0.002	0.04	0.1	0.02	1.7	<0.1	<0.05	2	<0.5	<0.2
1545398	Soil		16	13	0.25	79	0.013	<1	0.68	0.002	0.03	0.2	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1545399	Soil		18	13	0.23	67	0.017	<1	0.66	0.002	0.03	0.3	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1545395	Soil		29	16	0.28	96	0.012	1	0.75	0.002	0.03	0.3	0.03	1.4	<0.1	<0.05	2	<0.5	<0.2
1545390	Soil		16	15	0.24	145	0.009	<1	0.78	0.002	0.03	0.4	0.03	1.0	<0.1	<0.05	2	<0.5	<0.2
1545400	Soil		18	13	0.23	67	0.016	<1	0.65	0.002	0.03	0.3	0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
1545374	Soil		22	16	0.27	74	0.013	<1	0.78	0.002	0.03	0.2	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1545375	Soil		25	15	0.31	72	0.013	<1	0.78	0.002	0.03	0.2	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
1545391	Soil		15	13	0.21	87	0.008	<1	0.73	0.002	0.02	0.3	0.03	0.6	<0.1	<0.05	2	<0.5	<0.2
1545392	Soil		15	15	0.23	113	0.011	<1	0.80	0.002	0.03	0.2	0.03	1.1	<0.1	<0.05	2	<0.5	<0.2
1545402	Soil		40	20	0.38	115	0.017	<1	0.85	0.002	0.04	0.1	0.06	1.7	<0.1	<0.05	3	<0.5	<0.2

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		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
1545401	Soil		0.7	34.5	8.6	58	<0.1	16.1	6.7	180	2.53	5.1	2.3	<0.5	11.2	6	<0.1	0.5	0.3	16	0.05	0.042
1545389	Soil		0.9	18.0	10.8	47	<0.1	14.5	9.3	223	1.95	11.9	1.3	2.1	1.5	10	<0.1	0.8	0.3	31	0.09	0.063
1545393	Soil		0.8	25.9	10.9	53	<0.1	22.3	11.0	440	2.42	10.5	1.1	63.9	5.9	9	0.2	1.4	0.2	30	0.08	0.062
1545394	Soil		0.7	15.0	9.6	41	<0.1	12.6	5.3	158	1.88	11.5	0.7	26.5	3.1	8	<0.1	0.8	0.2	24	0.08	0.064
1547783	Soil		0.7	22.4	9.4	44	<0.1	14.7	5.3	136	1.77	17.1	0.9	6.6	5.2	10	0.1	2.2	0.2	24	0.09	0.047
1545380	Soil		0.7	12.9	9.5	43	<0.1	12.0	4.5	101	1.69	10.3	0.8	2.0	1.4	8	<0.1	0.6	0.2	27	0.08	0.059
1545372	Soil		0.7	25.0	10.5	56	<0.1	17.0	7.7	219	1.95	11.6	1.4	4.2	3.4	10	0.1	1.0	0.2	27	0.10	0.062
1545373	Soil		0.7	20.1	11.7	48	<0.1	15.6	7.0	191	2.04	10.4	1.2	2.2	3.7	8	<0.1	0.9	0.2	28	0.06	0.052
1547784	Soil		0.8	25.2	16.7	51	<0.1	13.8	5.6	132	2.10	15.4	1.7	17.6	10.2	10	<0.1	3.6	0.3	19	0.05	0.040
1547782	Soil		1.0	15.2	10.7	51	<0.1	14.3	6.0	198	2.26	19.3	0.7	9.5	4.5	7	0.1	2.9	0.3	28	0.05	0.054
1545378	Soil		0.7	12.5	9.5	40	<0.1	10.8	3.9	95	1.50	8.4	0.8	2.8	0.4	8	<0.1	0.6	0.3	24	0.07	0.058
1545371	Soil		0.8	22.2	11.7	51	<0.1	19.3	8.5	266	2.18	8.2	0.9	31.2	6.6	8	0.1	1.0	0.3	22	0.08	0.057
1547762	Soil		0.9	26.3	11.1	54	<0.1	18.5	7.5	226	2.37	11.1	1.3	1.4	4.3	10	<0.1	2.9	0.3	28	0.08	0.056
1547781	Soil		0.8	23.1	14.1	53	<0.1	15.3	8.7	314	2.15	9.8	1.2	31.6	6.9	9	0.1	3.5	0.3	19	0.07	0.044
1545377	Soil		0.8	14.6	9.2	39	<0.1	11.4	4.6	154	1.68	10.1	0.8	4.0	0.5	8	<0.1	0.6	0.2	26	0.07	0.070
1545379	Soil		0.7	14.4	9.1	41	<0.1	11.4	5.1	126	1.90	10.7	0.9	53.0	1.4	8	<0.1	0.8	0.2	26	0.08	0.063
1545376	Soil		0.8	14.8	9.3	44	<0.1	11.7	4.6	132	1.84	11.3	0.9	40.7	1.2	8	<0.1	0.8	0.2	27	0.08	0.064
1545370	Soil		0.7	15.9	9.1	44	<0.1	13.8	5.7	157	1.80	10.2	0.8	4.6	3.3	8	<0.1	0.8	0.2	24	0.08	0.056
1545369	Soil		0.8	27.1	9.4	58	<0.1	22.6	10.1	428	1.97	12.5	0.9	7.5	3.4	11	0.1	1.0	0.2	26	0.11	0.069
1545367	Soil		0.6	39.6	9.4	65	<0.1	68.2	17.4	538	2.91	22.6	0.8	3.9	4.4	12	0.1	0.8	0.1	45	0.15	0.076
1548334	Soil		0.7	16.1	12.3	39	0.1	13.6	4.6	91	1.75	25.7	1.0	11.0	3.0	15	<0.1	5.8	0.2	29	0.19	0.057
1545368	Soil		0.7	16.0	6.8	44	<0.1	14.3	8.6	272	1.55	10.4	0.9	3.7	4.2	9	0.1	0.7	0.1	22	0.10	0.056
1547764	Soil		0.7	12.7	8.2	37	<0.1	10.8	4.8	140	1.61	12.8	0.6	47.4	0.3	7	<0.1	3.0	0.2	27	0.07	0.057
1547770	Soil		0.7	20.6	9.0	52	<0.1	14.0	6.3	158	1.71	10.4	1.4	6.6	3.0	9	<0.1	1.0	0.1	27	0.09	0.053
1548331	Soil		0.8	15.8	10.1	36	<0.1	13.6	4.8	96	1.78	18.4	0.8	7.7	1.0	7	<0.1	6.2	0.3	25	0.05	0.053
1547765	Soil		0.9	12.4	9.5	36	<0.1	9.6	3.7	88	1.82	12.3	0.7	4.0	1.1	7	<0.1	2.8	0.2	28	0.06	0.065
1547767	Soil		0.7	9.2	7.5	33	<0.1	9.1	3.3	88	1.49	9.4	0.5	2.0	0.2	6	<0.1	1.3	0.2	27	0.05	0.041
1547761	Soil		0.8	11.7	9.6	36	<0.1	9.9	3.5	82	1.74	11.2	0.7	7.7	0.4	9	<0.1	0.7	0.2	29	0.08	0.058
1548327	Soil		0.7	19.8	10.3	46	<0.1	15.1	5.4	128	1.91	10.8	1.0	5.7	3.8	9	0.1	2.3	0.2	25	0.08	0.052
1548329	Soil		0.8	16.5	10.9	42	<0.1	13.9	5.0	104	1.98	15.0	0.9	5.2	4.3	8	<0.1	4.8	0.2	25	0.06	0.046

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Project: MCQ
Report Date: September 08, 2017

CERTIFICATE OF ANALYSIS WHI17000679.1

		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
1545401	Soil		28	17	0.44	117	0.026	<1	0.99	0.002	0.04	<0.1	<0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
1545389	Soil		19	18	0.28	209	0.010	1	0.98	0.003	0.03	0.2	0.04	1.9	0.2	<0.05	3	<0.5	<0.2
1545393	Soil		24	22	0.33	90	0.014	<1	0.87	0.002	0.03	0.3	0.02	2.2	0.1	<0.05	3	<0.5	<0.2
1545394	Soil		18	15	0.23	63	0.014	<1	0.69	0.002	0.03	0.7	0.02	1.2	<0.1	<0.05	2	<0.5	<0.2
1547783	Soil		18	14	0.24	166	0.012	<1	0.68	0.002	0.03	0.2	0.03	1.8	<0.1	<0.05	2	<0.5	<0.2
1545380	Soil		16	15	0.23	111	0.012	<1	0.76	0.002	0.03	0.2	0.03	1.2	<0.1	<0.05	3	<0.5	<0.2
1545372	Soil		22	17	0.30	145	0.015	<1	0.87	0.003	0.03	0.3	0.04	1.9	<0.1	<0.05	2	<0.5	<0.2
1545373	Soil		28	16	0.27	117	0.012	<1	0.81	0.002	0.03	0.2	0.03	1.5	<0.1	<0.05	3	<0.5	<0.2
1547784	Soil		41	13	0.25	138	0.007	<1	0.69	0.002	0.04	0.2	0.03	2.0	<0.1	<0.05	2	<0.5	<0.2
1547782	Soil		15	16	0.25	80	0.011	2	0.86	0.002	0.03	0.3	0.02	1.4	<0.1	<0.05	2	0.5	<0.2
1545378	Soil		14	13	0.22	101	0.008	1	0.73	0.002	0.03	0.4	0.04	0.7	<0.1	<0.05	2	<0.5	<0.2
1545371	Soil		21	17	0.35	81	0.014	1	0.76	0.002	0.03	0.2	0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
1547762	Soil		28	19	0.38	147	0.011	1	0.93	0.002	0.03	0.2	0.03	1.8	<0.1	<0.05	3	<0.5	<0.2
1547781	Soil		31	13	0.32	176	0.009	1	0.78	0.002	0.03	0.2	0.03	1.5	<0.1	<0.05	2	<0.5	<0.2
1545377	Soil		15	16	0.24	87	0.008	<1	0.80	0.002	0.03	0.3	0.04	0.8	<0.1	<0.05	2	<0.5	<0.2
1545379	Soil		18	15	0.25	108	0.011	<1	0.80	0.002	0.03	0.4	0.05	1.4	<0.1	<0.05	2	<0.5	<0.2
1545376	Soil		15	16	0.26	101	0.012	<1	0.83	0.003	0.03	0.2	0.04	1.3	<0.1	<0.05	3	<0.5	<0.2
1545370	Soil		16	15	0.27	71	0.014	<1	0.79	0.002	0.03	0.2	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1545369	Soil		16	23	0.35	129	0.015	<1	0.91	0.002	0.03	0.3	0.03	2.2	<0.1	<0.05	2	<0.5	<0.2
1545367	Soil		21	119	1.20	111	0.029	<1	1.50	0.002	0.02	0.1	0.03	4.6	<0.1	<0.05	4	<0.5	<0.2
1548334	Soil		16	15	0.25	197	0.006	<1	0.86	0.003	0.03	0.3	0.04	1.7	<0.1	<0.05	3	0.6	<0.2
1545368	Soil		16	12	0.23	125	0.015	<1	0.66	0.002	0.03	0.4	0.03	1.7	<0.1	<0.05	2	<0.5	<0.2
1547764	Soil		14	14	0.22	60	0.007	<1	0.67	0.002	0.03	0.4	0.02	0.5	<0.1	<0.05	2	<0.5	<0.2
1547770	Soil		18	16	0.28	179	0.014	<1	0.84	0.003	0.03	0.3	0.03	1.9	<0.1	<0.05	2	<0.5	<0.2
1548331	Soil		18	15	0.20	101	0.005	<1	0.79	0.002	0.03	0.3	0.04	1.0	0.1	<0.05	2	<0.5	<0.2
1547765	Soil		14	16	0.24	86	0.010	<1	0.86	0.003	0.03	0.2	0.03	1.1	<0.1	<0.05	3	<0.5	<0.2
1547767	Soil		13	13	0.20	58	0.007	<1	0.66	0.002	0.03	0.2	0.03	0.4	<0.1	<0.05	3	<0.5	<0.2
1547761	Soil		12	16	0.24	100	0.009	<1	0.83	0.003	0.03	0.2	0.03	0.7	<0.1	<0.05	3	<0.5	<0.2
1548327	Soil		22	16	0.27	151	0.011	<1	0.81	0.003	0.03	0.4	0.05	1.7	<0.1	<0.05	2	<0.5	<0.2
1548329	Soil		19	15	0.22	89	0.010	<1	0.81	0.003	0.03	0.2	0.03	1.6	<0.1	<0.05	2	<0.5	<0.2

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Project: MCQ
Report Date: September 08, 2017

CERTIFICATE OF ANALYSIS WHI17000679.1

		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
1547768	Soil		1.0	16.4	9.6	44	<0.1	12.9	5.0	118	1.93	11.2	1.0	2.4	2.1	8	<0.1	1.3	0.2	27	0.08	0.057
1547766	Soil		0.8	13.1	9.9	37	<0.1	10.1	3.7	85	1.84	12.1	0.8	2.9	1.5	8	<0.1	2.7	0.2	28	0.07	0.057
1548330	Soil		0.7	12.5	8.9	33	0.1	10.1	4.0	92	1.58	14.8	0.8	8.0	2.3	6	<0.1	3.0	0.2	23	0.05	0.051
1548332	Soil		0.7	21.2	11.3	52	<0.1	19.3	7.8	152	2.20	19.4	1.1	41.3	4.7	7	<0.1	11.3	0.2	20	0.05	0.042
1547769	Soil		0.8	22.3	9.7	53	<0.1	19.0	7.2	183	2.08	12.7	1.4	7.3	4.4	8	<0.1	1.2	0.2	31	0.08	0.056
1547763	Soil		0.8	25.6	10.8	52	<0.1	20.1	9.1	270	2.44	14.1	1.1	3.3	5.8	8	0.1	4.4	0.2	28	0.07	0.051
1548306	Soil		0.7	23.1	9.6	61	<0.1	20.3	10.2	338	1.96	15.3	0.8	3.7	5.2	11	0.2	1.1	0.2	23	0.11	0.068
1548310	Soil		0.6	27.4	8.5	49	<0.1	17.1	8.5	359	1.73	13.7	0.7	2.9	4.4	10	0.1	0.9	0.1	20	0.09	0.060
1548325	Soil		0.8	17.0	11.0	45	<0.1	14.3	5.6	122	2.01	10.8	1.0	32.9	1.7	9	<0.1	2.0	0.2	28	0.07	0.062
1548302	Soil		0.9	33.8	12.0	67	<0.1	24.1	9.3	275	2.49	10.3	1.3	8.6	6.4	11	<0.1	1.2	0.3	24	0.07	0.039
1548309	Soil		0.9	19.1	9.1	54	<0.1	16.2	8.2	302	1.89	12.4	1.0	2.9	3.4	8	<0.1	0.9	0.2	27	0.08	0.053
1548311	Soil		0.6	21.1	9.2	56	<0.1	18.1	7.8	230	1.76	12.9	0.6	2.0	3.3	7	0.1	0.9	0.2	20	0.06	0.041
1548328	Soil		0.7	15.8	10.2	46	<0.1	14.2	6.1	114	1.69	10.6	0.8	3.2	3.6	8	<0.1	2.8	0.2	25	0.08	0.048
1548308	Soil		0.8	16.0	9.4	48	<0.1	14.5	7.4	259	1.89	13.3	0.6	1.4	3.1	9	<0.1	0.9	0.2	27	0.09	0.073
1548305	Soil		0.6	23.9	8.8	59	<0.1	19.9	8.7	311	1.84	12.3	0.8	56.7	5.6	9	0.1	1.8	0.2	20	0.09	0.052
1548307	Soil		0.7	18.2	9.0	54	<0.1	17.8	9.0	390	1.91	13.1	0.7	6.6	3.8	9	0.2	1.0	0.2	22	0.08	0.050
1548333	Soil		0.8	12.3	10.5	35	<0.1	11.2	4.5	101	1.93	16.9	0.7	5.4	0.8	7	0.1	5.3	0.2	21	0.05	0.050
1548326	Soil		0.7	12.7	8.1	37	<0.1	11.2	4.4	109	1.65	8.5	0.7	25.9	1.5	8	<0.1	1.2	0.1	22	0.06	0.050
1548303	Soil		0.8	34.7	9.8	63	<0.1	22.8	9.1	408	2.20	12.0	0.9	2.2	5.3	10	0.2	1.1	0.2	24	0.08	0.052
1548301	Soil		0.6	27.9	8.6	58	<0.1	16.6	7.7	301	1.92	11.8	1.3	2.1	4.0	9	<0.1	0.8	0.1	20	0.09	0.057
1548304	Soil		0.7	28.3	9.3	52	<0.1	16.3	8.8	348	1.85	14.1	0.7	2.3	3.9	9	<0.1	0.8	0.2	18	0.10	0.062
1548312	Soil		0.8	15.7	9.2	46	<0.1	13.7	6.4	227	1.99	12.5	0.8	11.9	3.4	8	<0.1	0.7	0.1	25	0.09	0.057

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Project: MCQ
Report Date: September 08, 2017

CERTIFICATE OF ANALYSIS WHI17000679.1

	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
1547768	Soil	16	17	0.27	156	0.012	<1	0.87	0.003	0.03	0.2	0.03	1.7	<0.1	<0.05	2	0.5	<0.2
1547766	Soil	14	16	0.25	92	0.011	<1	0.91	0.003	0.03	0.1	0.04	1.2	<0.1	<0.05	3	<0.5	<0.2
1548330	Soil	17	13	0.21	92	0.007	<1	0.74	0.002	0.03	0.2	0.04	1.2	<0.1	<0.05	2	<0.5	<0.2
1548332	Soil	24	15	0.22	116	0.006	<1	0.65	0.002	0.03	0.2	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
1547769	Soil	18	22	0.34	149	0.016	<1	1.00	0.003	0.03	0.2	0.04	2.5	<0.1	<0.05	3	<0.5	<0.2
1547763	Soil	31	21	0.42	110	0.011	<1	0.91	0.002	0.03	0.3	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
1548306	Soil	15	14	0.27	74	0.013	<1	0.80	0.003	0.03	0.3	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
1548310	Soil	14	12	0.24	98	0.013	<1	0.64	0.002	0.03	0.2	0.03	1.8	<0.1	<0.05	2	<0.5	<0.2
1548325	Soil	20	16	0.27	171	0.010	<1	0.86	0.003	0.04	0.3	0.04	1.3	<0.1	<0.05	3	<0.5	<0.2
1548302	Soil	32	17	0.38	270	0.011	<1	0.90	0.003	0.03	0.2	0.03	2.1	<0.1	<0.05	3	<0.5	<0.2
1548309	Soil	16	18	0.28	145	0.017	<1	0.86	0.003	0.03	0.2	0.04	2.4	<0.1	<0.05	2	0.7	<0.2
1548311	Soil	14	13	0.24	121	0.011	<1	0.68	0.002	0.02	0.2	0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
1548328	Soil	16	15	0.24	97	0.011	<1	0.78	0.002	0.03	0.3	0.04	1.4	<0.1	<0.05	2	<0.5	<0.2
1548308	Soil	13	15	0.24	94	0.014	<1	0.75	0.003	0.03	0.2	0.03	1.5	<0.1	<0.05	2	<0.5	<0.2
1548305	Soil	16	14	0.25	90	0.012	<1	0.74	0.002	0.03	0.2	0.03	1.7	<0.1	<0.05	2	<0.5	<0.2
1548307	Soil	15	14	0.24	181	0.014	3	0.75	0.002	0.03	0.3	0.02	2.1	<0.1	<0.05	2	<0.5	<0.2
1548333	Soil	14	13	0.20	82	0.005	1	0.74	0.003	0.03	0.4	0.03	0.7	<0.1	<0.05	2	<0.5	<0.2
1548326	Soil	14	13	0.22	89	0.010	2	0.73	0.002	0.03	0.2	0.02	1.0	<0.1	<0.05	2	<0.5	<0.2
1548303	Soil	20	15	0.33	168	0.014	2	0.92	0.003	0.03	0.3	0.04	2.4	<0.1	<0.05	2	<0.5	<0.2
1548301	Soil	15	13	0.26	115	0.015	1	0.73	0.002	0.03	0.2	0.03	2.1	<0.1	<0.05	2	<0.5	<0.2
1548304	Soil	14	11	0.24	123	0.014	1	0.64	0.003	0.03	0.2	0.04	2.3	<0.1	<0.05	2	0.6	<0.2
1548312	Soil	12	15	0.26	83	0.016	2	0.90	0.003	0.03	0.2	0.03	1.9	<0.1	<0.05	2	<0.5	<0.2

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Project: MCQ
Report Date: September 08, 2017

QUALITY CONTROL REPORT WHI17000679.1

	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
Pulp Duplicates																					
1548322	Soil	0.7	12.9	8.7	38	<0.1	11.9	4.3	139	1.68	9.6	0.8	1.2	2.0	8	<0.1	1.0	0.2	25	0.07	0.041
REP 1548322	QC	0.8	12.9	8.8	38	<0.1	11.3	4.4	139	1.74	9.1	0.8	3.0	2.2	8	<0.1	1.0	0.2	24	0.07	0.040
1545373	Soil	0.7	20.1	11.7	48	<0.1	15.6	7.0	191	2.04	10.4	1.2	2.2	3.7	8	<0.1	0.9	0.2	28	0.06	0.052
REP 1545373	QC	0.8	19.8	11.8	48	<0.1	15.4	6.9	193	2.15	9.7	1.2	81.6	3.7	8	0.1	0.9	0.2	27	0.06	0.051
1548308	Soil	0.8	16.0	9.4	48	<0.1	14.5	7.4	259	1.89	13.3	0.6	1.4	3.1	9	<0.1	0.9	0.2	27	0.09	0.073
REP 1548308	QC	0.7	16.5	9.7	49	<0.1	14.7	7.6	279	2.04	13.7	0.6	2.7	3.1	8	<0.1	0.9	0.2	27	0.09	0.076
1548312	Soil	0.8	15.7	9.2	46	<0.1	13.7	6.4	227	1.99	12.5	0.8	11.9	3.4	8	<0.1	0.7	0.1	25	0.09	0.057
REP 1548312	QC	0.8	18.1	9.7	47	<0.1	13.5	6.8	220	1.96	13.2	0.9	2.6	3.3	8	0.1	0.8	0.2	25	0.07	0.060
Reference Materials																					
STD DS11	Standard	14.0	151.2	136.0	317	1.7	76.9	13.8	977	3.05	43.2	2.9	65.5	8.2	70	2.8	9.0	12.8	49	1.01	0.071
STD DS11	Standard	14.3	172.0	141.3	347	1.7	81.9	14.2	1050	3.17	48.3	3.0	78.6	9.2	64	2.9	9.8	14.6	54	1.01	0.077
STD DS11	Standard	14.7	169.8	140.8	353	1.7	81.6	14.4	1043	3.27	47.7	3.0	76.8	8.9	72	2.8	10.1	14.9	53	1.03	0.078
STD DS11	Standard	12.4	166.2	137.2	347	1.6	78.7	15.2	999	3.13	46.0	2.9	67.7	8.0	58	2.7	9.7	14.2	48	0.98	0.076
STD DS11	Standard	14.2	146.6	137.6	351	1.7	75.1	12.9	1012	3.13	42.1	2.7	85.1	7.8	68	2.2	8.9	11.8	46	0.99	0.069
STD OXC129	Standard	1.2	28.9	6.5	39	<0.1	77.6	21.0	416	3.02	0.5	0.7	193.2	2.0	181	<0.1	<0.1	<0.1	52	0.66	0.099
STD OXC129	Standard	1.2	32.2	7.1	44	<0.1	82.6	22.4	440	3.20	0.9	0.8	189.8	2.2	189	<0.1	<0.1	<0.1	59	0.74	0.110
STD OXC129	Standard	1.3	30.3	7.0	44	<0.1	81.9	20.9	419	3.19	0.8	0.8	200.5	2.2	185	<0.1	<0.1	<0.1	57	0.68	0.115
STD OXC129	Standard	1.3	30.5	6.9	42	<0.1	79.2	22.8	424	3.06	0.7	0.8	188.7	2.1	178	<0.1	<0.1	<0.1	56	0.59	0.111
STD OXC129	Standard	1.3	25.7	6.4	40	<0.1	74.4	19.2	391	2.99	0.6	0.7	197.8	1.8	173	<0.1	<0.1	<0.1	49	0.63	0.094
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	<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	<2	<0.01	<0.001

BUREAU VERITAS
MINERAL LABORATORIES
Canada

www.bureauveritas.com/um

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

Client: **Ryanwood Exploration Inc.**
Box 213
Dawson City Yukon Y0B 1G0 Canada

Project: MCQ
Report Date: September 08, 2017

QUALITY CONTROL REPORT WHI17000679.1

	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																		
1548322	Soil	15	14	0.24	97	0.013	<1	0.77	0.002	0.03	0.2	0.03	1.4	<0.1	<0.05	3	<0.5	<0.2
REP 1548322	QC	16	14	0.26	97	0.013	<1	0.76	0.002	0.03	0.2	0.03	1.3	<0.1	<0.05	2	0.5	<0.2
1545373	Soil	28	16	0.27	117	0.012	<1	0.81	0.002	0.03	0.2	0.03	1.5	<0.1	<0.05	3	<0.5	<0.2
REP 1545373	QC	27	15	0.28	114	0.012	<1	0.80	0.002	0.03	0.2	0.03	1.6	<0.1	<0.05	2	<0.5	<0.2
1548308	Soil	13	15	0.24	94	0.014	<1	0.75	0.003	0.03	0.2	0.03	1.5	<0.1	<0.05	2	<0.5	<0.2
REP 1548308	QC	14	15	0.26	97	0.015	<1	0.79	0.003	0.03	0.2	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1548312	Soil	12	15	0.26	83	0.016	2	0.90	0.003	0.03	0.2	0.03	1.9	<0.1	<0.05	2	<0.5	<0.2
REP 1548312	QC	13	16	0.25	86	0.014	<1	0.82	0.002	0.03	0.2	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
Reference Materials																		
STD DS11	Standard	19	58	0.81	367	0.095	8	1.09	0.070	0.39	3.0	0.25	3.3	4.7	0.30	5	2.3	4.4
STD DS11	Standard	21	62	0.84	369	0.096	7	1.17	0.068	0.39	3.0	0.25	3.3	4.9	0.28	5	2.0	4.6
STD DS11	Standard	21	61	0.86	383	0.098	7	1.14	0.071	0.41	3.1	0.27	3.3	4.9	0.28	5	1.9	4.6
STD DS11	Standard	18	61	0.82	396	0.086	6	1.04	0.058	0.36	3.4	0.28	2.9	4.9	0.26	4	2.3	4.5
STD DS11	Standard	18	56	0.82	361	0.088	7	1.08	0.068	0.38	2.9	0.31	2.9	4.8	0.24	5	1.8	4.7
STD OXC129	Standard	14	50	1.41	50	0.377	1	1.51	0.568	0.33	<0.1	<0.01	0.7	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	15	55	1.58	51	0.423	1	1.58	0.590	0.37	<0.1	<0.01	0.9	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	14	53	1.64	52	0.411	2	1.52	0.603	0.36	<0.1	<0.01	0.7	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	14	57	1.52	54	0.406	<1	1.46	0.538	0.35	<0.1	<0.01	0.6	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	12	47	1.48	48	0.373	<1	1.46	0.552	0.35	<0.1	<0.01	0.7	<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
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 C: Invoices

GroundTruth Exploration
Box 70, Dawson, YT Y0B 1G0
Phone (867) 993-5612
Fax: (867) 993-5617

Invoice

Date	Invoice #
Nov 6/17	GT-MCQ2017-02
Terms	**Due**
Net 21	Nov 27/17

Invoice To:

Shawn Ryan
Box 213
Dawson, YT, Y0B 1G0
867-993-2499

Project: MCQ	**Amount**
MCQ Soil Sampling Program	
1392 Soil Samples collected - Aug 2017	$ 62,640.00
Soil Sampling charged out at $45/soil for GroundTruth collection with Bureau Veritas ICPMS Assay	
Truck Rental: 5 days * 2 trucks @ $150/day	$ 1,500.00
Mileage from Dawson, local use in Mayo: 1,000km @ $0.75/km	$ 750.00
YMEP/Assessment Report Preparation:	$ 1,000.00

Helicopter Support, client paid direct:

Prj	Date	Ticket	Hours	Amount
MCQ	16-Aug	63925	1.1	2,035.00
MCQ	16-Aug	63926	1.3	2,405.00
MCQ	17-Aug	63929	1.3	2,405.00
MCQ	18-Aug	63931	1.5	2,775.00
MCQ	18-Aug	63932	1.4	2,590.00
MCQ	20-Aug	63933	2.4	4,440.00
MCQ	21-Aug	63934	1.3	2,405.00
		Total	**10.3**	**19,055.00**

GST # 811084268 RT0001

Subtotal	$	65,890.00
GST 5%	$	3,294.50
Total Due	**$**	**69,184.50**

Thank you for your business!

YMEP Applicable Expense Total before GST: $ 84,945.00

YMEP Expense Claim Form - Client Copy

Yukon
Energy, Mines and Resources

YMEP no: **17-070**	*project name:*	**MCQ**	*applicant name:*	**Shawn Ryan**	
expense claim no:	*program type:*	**hard rock**	*program module:*	**target evaluation**	
date submitted: **31-Jan-18**	*phone:*	**867-993-2499**	*email:*	**sryan@ryanwoodexploration.com**	
address:	**Box 213, Dawson, YT, Y0B 1G0**				
start/end dates of fieldwork for this claim:	**16-Aug-17** *start*	**20-Aug-17** *end*	*no. of field days/this claim:*	**50 man days sampling**	

eligible expenses *Please refer to rate guidelines. Provide photocopy of receipts.*

item		unit/days	rate	total
daily field expenses	no persons: 10		$100/day	
personnel	*Name (supply statement of qualifications)*			
	Sampling Contractor:	# Samples	Rate per sample	
	GroundTruth Exploration Inc.	1392	45	$62,640.00

equipment (rental)	private or commercial	unit/days	rate	total
Truck Rental (GroundTruth)	commercial	10	150	$1,500.00
	private			
	private			
	private			
	private			
	private			
	private			
	private			
	private			
	private			
	private			
other	*Please provide details.*			
Fuel Mileage (GroundTruth)		1,000km	$0.75	$750.00
Trans North Astar D2		10.3 h	$1,850	$19,055.00
Report Preparation				$1,000.00
			Total this claim:	$84,945.00

YMEP Final Submission Form

Yukon
Energy, Mines and Resources

	Date submitted: January 31, 2018
Submit by January 31st to: *(winter placer projects may submit at pre-approved date)*	YMEP - EMR/YG Street address: 102-300 Main Street Mailing address: Box 2703, K-102 Whitehorse, YT, Y1A 2B5 ymep@gov.yk.ca phone: 867-456-3828 fax: 867-667-3198

CONTACT INFO		***PROJECT INFO***	
Name:	Shawn Ryan	YMEP no:	17-070
Address:	Box 213	Project name:	MCQ
	Dawson, YT, Y0B 1G0	Project type:	Hard Rock
Email:	sryan@ryanwoodexploration.com	Project module:	Focused Regional
Phone:	867-336-4219		

Is the final report enclosed? ☑ yes ☐ no

☑ hard copy
☑ pdf copy
☑ digital spreadsheet of station location data

Comment:

PROJECT SUMMARY

Total project expenditures: $84,945.00

Number of new claims since March 31st: 226

Has an option resulted since March 31st? ☑ yes ☐ no ☐ in negotiation

Number of calendar field days: 6

Number of person-days of employment: 55 paid _____ days of unpaid work

Total no. of samples: _____ rocks _____ silts 1392 soils _____ other

Total length/volume of trenching/shafting: n/a

Total number of line-km of geophysics: n/a

Total metres drilled: _____ diamond drill _____ RC drill _____ auger/percussion drill

Other products (provide details):

FINANCIAL SUMMARY

This is not an expense claim form. To request reimbursement of expenses, please submit a separate detailed expense claim form.

Total daily field allowance:		Total contractor costs:	$62,640
Total field air transportation costs (helicopter/plane):	$19,055	Total excavating/heavy equipment costs:	
Total truck/mileage costs:	$ 2,250	Total assay/analyses costs:	in contractor
Total wages paid:		Total reclamation costs:	
Total light equipment rental costs:		Total report writing cost:	$1,000
Other (please specify):		Total staking costs:	
Other (please specify):			

YMEP Final Submission Form

Yukon
Energy, Mines and Resources

Your feedback on any aspect of the program:

Scope of program was executed as per application.

The Department of Energy, Mines and Resources may verify all statements related to, and made on this form, in any previously submitted reports, interim claims and in the Summary or Technical Report which accompanies it.

I certify that;

1. I am the person, or the representative of the company or partnership, named in the Application for Funding and in the Contribution Agreement under the Yukon Mineral Exploration Program.

2. I am a person who is nineteen years of age or older, and I have complied with all the requirements of the said program.

3. I hereby apply for the final payment of a contribution under the Yukon Mineral Exploration Program (YMEP) and declare the information contained within the Summary or Technical Report and this form to be true and accurate.

Date January 31, 2018

Signature of Applicant _____

Name (print) Isaac Fage