

2019 Assessment Report
Soil Geochemical Survey on the
Golden Horseshoe Project

Tatlain Lake area, north of Carmacks; NTS 115I 09

Location: Latitude of 62° 31' 53.32" N, and Longitude 136° 15' 59.76" W

Mining District: Whitehorse

Yukon Territory

By Nicolai Goeppel

on behalf of

Thi My Linh Pham

March 30, 2020

Abstract

The Golden Horseshoe project (GHP) area is located in central Yukon, in the Whitehorse Mining District, and NTS map sheet 115I 09. A total of 582 quartz claims make up the project and covers 12165 hectares. In fall 2019 a ridge and spur soil sampling program was carried out on the Golden Horseshoe Property. The soil geochemical survey was prompted by the presence of a large elliptical geophysical anomaly approximately 9 by 14 kilometres in size that is encompassed by elevated gold values in regional government silt sediments. The underlying bedrock geology is intrusive in nature and is of the right age to be favourable for porphyry style mineralization.

The ridge and spur soil sampling program was completed on several of the most prominent ridges and spurs across the property. The four-day program was carried out from October 7-10th, 2019 by a crew of 5 and using Horizon helicopters Airbus AS350SD based out of Whitehorse. A total of 450 soil samples were taken. Samples were first tested using a portable x-ray fluorescence detector (XRF) and based on anomalies in Au, Ag, As, Cu, Mo and REEs a total of 199 soil samples were submitted for additional analytical testing by ALS laboratories. Samples returned values up to 100 ppb Au, 200 ppb Ag, 18.5 ppm As, 65.2 ppm Cu, 1.25 ppm Mo, 11.8 ppm Pb and anomalous REEs. Soils were taken by soil auger to the maximum obtainable depth and 100 m spaced intervals along prominent ridges and spurs. Areas of lower elevation particularly to the east was found to be overlain by a glacial lacustrine sediment and may not be representative of the bedrock.

Further work is warranted to test the potential of the area and the geophysical anomaly. A future program would consist of hand or mechanical test pitting and trenching on anomalous soils or areas of interest based on airborne geophysics in order to penetrate through overlaying sediment and determine geochemistry of the bedrock, in preparation for future drilling. The total assessment valuation for the 2019 soil geochemical program on the GHS property is \$58,292.47.

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Introduction

The Golden Horseshoe Project (GHP) lies southeast of Tatlain Lake, north of Carmacks at the center of the Yukon (Figure 1). The project area lies approximately 50km southeast of the operating Minto Mine a deformed alkaline Cu-Au porphyry with a sulphide resource of 70.8 Mt grading 1.2 % Cu, 0.5 g/t Au and 4.2 g/t Ag (Mercer and Sagman, 2012). Approximately 50 Km to the southwest is the Freegold Mountain area, a hot bed of porphyry and intrusion-related mineralization; deposits include, Tinta Hill (intrusion related vein), Revenue (Cu, Au, Mo porphyry), La Forma (high-sulphidation epithermal), and Guder (Au skarn). The closest significant mineralization is 30 km to the southwest the Copper North porphyry supergene deposit which as of 2016 has an indicated and measured resource of 15.69 million tonnes oxide ore grading 0.94% Cu and 0.38g/t Au.

The Golden Horseshoe Project overlies the early Jurassic McGregor pluton (Figure 2). In 2012 the author noted an extremely large horseshoe shaped geophysics anomaly in the area underlain by the McGregor pluton. The first vertical derivative regional airborne magnetics anomaly displays an open-ended ellipsoidal magnetic high and central magnetic low that is approximately 9km x 14km in size (Figure 3 to 5). Based on the close proximity to existing porphyry mineralization, the horseshoe anomaly may be indicative of a pyritic contact halo to a buried intrusion. Government regional stream sediments samples from the McGregor pluton display multiple over 50 ppb gold-in-silt anomalies (Figure 2).

In 2016 a small drilling program was under taken; however due to cold weather conditions the drilling only reached 300m from the desired 600m. The drill remains on site for further drilling lowering mobilization costs. Drilling did intersect large sections of alteration, but likely never penetrated the leech cap. In 2018 an airborne geophysical survey was completed by Precision Geophysics across the property. It consisted of magnetics and radiometrics. The survey enhanced resolution of the regional geophysics confirming a significant anomaly and indicated that it is likely closer to surface. The survey produced high potassic signatures and outlined a large fault structure through the core offsetting the anomaly.

Based on new insights from the 2018 geophysical survey, the 2019 soil sampling program was carried out on the GHS property. The program was Heli-supported consisting of 100m interval soil samples taken across the property on along the prominent ridges and spurs. A total of 450 soils were taken. Samples were initially analyzed with a portable XRF and 199 of the soils were later assayed by ALS laboratories. The purpose of this report is to summarize and detail the 2019 exploration program and results. The total assessment valuation for the 2019 exploration program is \$58,292.47

Location and Access

The Golden Horseshoe project area is located in central Yukon, in the Whitehorse Mining District, and NTS map sheet 115I 09. A total of 582 quartz claims make up the project and covers 12165 hectares. The GHP is centered on latitude 62° 31' 53.32" N and longitude 136° 15' 59.76" W. The project lies approximately 50 km north of Carmacks and approximately 20 km east of the Klondike Highway and power (Figure 1). Specifically, the project area is largely below treeline and ranges in altitude from 700-1250 m. Old burn

is common through the area. Primarily gently undulating hills with castellated ridge tops reveal minimal exposure below treeline.

Previous History

Industry-related

Despite substantial exploration on the west side of the Yukon River that has led to the determination of several porphyry deposits and the active Minto mine, very little recorded exploration work has occurred in the Golden Horseshoe project area and McGregor pluton. The Tatlain occurrence 115I 114, is located approximately 3km east beyond the Horseshoe anomaly. In August 1986 Noranda Exploration Company Ltd, staked the Main claims to cover a regional government stream sediment sample that yielded 141 ppb Au, 99 ppm As, 1160 Ba, 4 ppm Mo, and 3.8 ppm Sb. The short exploration program consisted of follow up silt samples, panned heavy samples, soils and one rock sample. Soil samples produced 770, 70 and 90 ppb Au, 1.8 ppm Ag, 24 ppm As, 68 ppm Cu, and 98 ppm Zn. Silts returned up to 4 ppm Sb and panned silts returned 1600 ppb Au and 560 ppm Zn.

Approximately 20km southeast of the GHP area is the Cu, Au alkaline porphyry Oobird occurrence. Discovered but not staked in 1971 by Laberge Joint Venture. Records mention traces of chalcopyrite and bornite occur with 5 to 20% pyrrhotite and pyrite on the margin of a hornblende-feldspar porphyry dyke cutting a hornblende-syenite batholith of Cretaceous age.

Government-related

Several legendary early surveyors and geologists from the Geological Survey of Canada including Dawson, Ogilvie, and McConnell travelled and are recorded to have inspected several nearby occurrences. H.S. Bostock in a 1936 memoir explicitly detail the geology of the area:

Granites Southwest of Tatlain Lake

“An area of granitic rocks lies south of Tatlain lake and between it and Lewes river. It extends only a few miles east of the district where the contact with rocks of the Yukon group runs north and south. This area is apparently composed of granite, quartz monzonite, aplite, pegmatite, quartz porphyry, and partly assimilated bodies of recrystallized older rocks. The southern and eastern parts of the area are mainly occupied by a coarse, grey granite which commonly is porphyritic. The typical rock is slightly gneissoid and a few scattered phenocrysts are present. The phenocrysts vary greatly in abundance, making up much of the rock in some localities and being lacking in others. They are composed of orthoclase and microcline. In the groundmass, quartz is the chief constituent. Orthoclase and oligoclase are both abundant and some microcline is also present. Hornblende and biotite occur in variable quantities. Muscovite, apatite, titanite, magnetite, and epidote are present. In composition, the rock is a granite, but approaches quartz monzonite. In the northern parts of the area and over considerable areas in the central part the rock is light grey or white, medium to moderately fine grained, and commonly slightly foliated. Under the microscope quartz is seen to be the main constituent. Acid oligoclase, orthoclase, microcline, biotite, and hornblende are essential constituents, and muscovite, epidote, titanite, and magnetite are accessory. The rock is a quartz monzonite. It forms sheets in the granite and appears to intrude it, though this is not altogether certain. Both the granite and quartz monzonite are cut by narrow pegmatite and aplite dykes in many places and in one place a fine-grained quartz porphyry cuts the granite. The granite and the quartz

monzonite contain areas of hornblende gneiss thought to be roof pendants of the Yukon group. They intrude the Mount Nansen group and in places near the contact the volcanics are recrystallized and schistose.”

In 2002 the area was in part combined with the Yukon Targeted Geoscience Initiative, accelerated bedrock mapping and till geochemistry for the Glenlyon (105L/1-7, 11-14) and northeast Carmacks (115I/9,16) areas, central Yukon. Most intriguing section of the initiative is work and summary from Jeff Bond of the YGS. two till samples returned anomalous of 29.2 and 23.3 ppb Au from over top of the McGregor pluton and outside the McConnell glacial limit (Bond, 2003).

Recent Work

In late summer of 2014 Maurice Colpron, Patrick Sack, MDRU professor Murray Allen, and the author Nicolai Goeppel set out on separate traverses through the McGregor pluton region by helicopter. The 2014 traverse by the author covered approximately 10 km of the western arm of the geophysical anomaly which also makes the most prominent ridge in the area before the anomaly curves into the valley bottom near Tatlain Lake. The goal was to cover as much area as possible with the best likelihood for rock exposures in the one-day visit and to look for confirming evidence to suggest porphyry mineralization, specifically a pyritic halo. Most notable observations showed granite to be of similar composition and grain size as at surrounding mineralized areas a porphyritic hornblende/biotite granodiorite. The medium-fine to medium grain size suggests mineralized horizons if present are intact. Stacking of biotite suggest recrystallization. Soft chloritized and locally sericitized mafic minerals were also observed. Several areas exposed red oxidized soils and slightly limonitic porphyritic granodiorite. Six rock samples and 3 soil samples were collected.

Assays returned elevated Cu (up to 17ppm), two with elevated Ti (>0.1%), strongly elevated V (202ppm), P (930ppm), Ba (220ppm), Sr (160ppm), Rb (33ppm), slightly elevated Pb and Zn in most samples (Figure 6). Typical Cu porphyry systems contain elevated Cu, Ag, Au and also Ti, V, P, F, Ba, Sr, Rb, Nb, Te, Pb, Zn, REEs and PGEs as mineralization pathfinders. Soil samples returned: 13, 5, and 11 ppb Au; 0.19 ppm Ag; 22 and 24ppm Cu, 102.5 ppm Zn and anomalous V, Ba, and REEs. Anomalous values are encouraging, as based on geophysical interpretation, the transverse was along the pyritic halo rather than across the mineralized core. Furthermore, as the anomaly coincides with the ridge a strong response would be expected; however, the anomaly remains strong to the north where it dips 500 meters lower through the valley and would be buried beneath thicker overburden.

In 2016 a small drilling program was under taken; however due to cold weather conditions the drilling only reached 300m from the desired 600m. The drill remains on site for further drilling lowering mobilizations. The 2016 drilling has not yet been filed for assessment and therefore results are not included in this report. Drilling did intersect large sections of alteration, but likely never penetrated the leech cap. 2018 drilling will complete the hole and test any anomalies produced from preliminary geophysical survey.



Image 1. Potassic alteration in core, locally with partially replaced plagioclase grains



Image 2. Pervasive chloritization with jasper-quartz veinlets.





Image 3. Examples of varying degrees of alteration

In 2018 an airborne geophysical survey was completed by Precision Geophysics across the property. It consisted of magnetics and radiometrics. The survey enhanced resolution of the regional geophysics confirming a significant anomaly and indicated that it is likely closer to surface. The survey produced high potassic signatures and outlined a large fault structure through the core offsetting the anomaly.

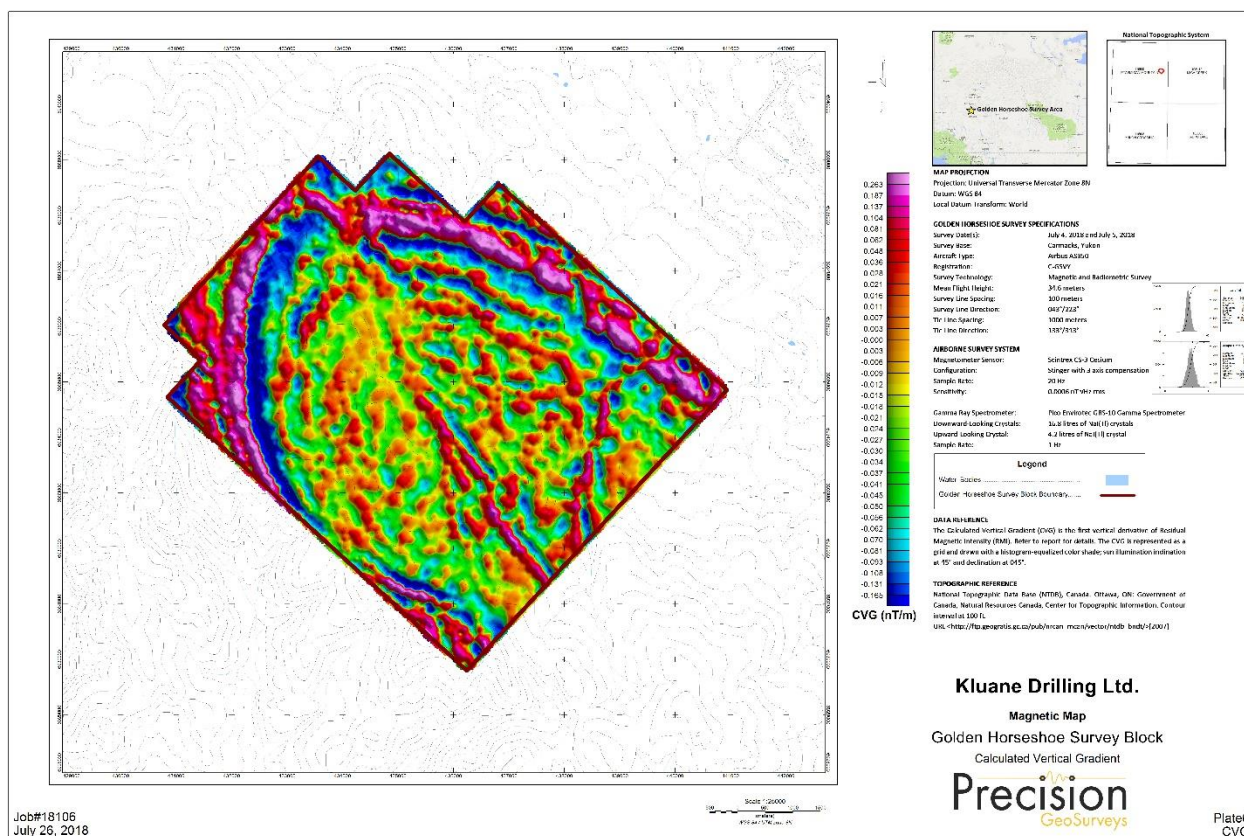


Image 4. Magnetic map from 2018 airborne geophysical survey

Regional Geology

The Golden Horseshoe property area lies within the Intermontane Belt, which in the Carmacks map-area is separated into the Yukon Cataclastic Terrane, Yukon Crystalline Terrane and Whitehorse Trough. The Whitehorse Trough lies to the east of the Hoochekoo Fault, west of the Golden Horseshoe project. The Whitehorse Trough comprises Upper Triassic intermediate to basic volcanic capped by carbonate reefs (Povoas Formation) and Lower Jurassic greywacke, shale and conglomerate, derived from the underlying Upper Triassic granitic rocks (Laberge Group). The Yukon Cataclastic Terrane includes hornblende-biotite-chlorite gneiss with interfoliated biotite granite gneiss, Permian Selwyn Gneiss. These units are intruded by younger intrusives and generally show indications of younger structures related to transverse movement along the Tintina Trench. Underlying the Golden Horseshoe project is the early Jurassic McGregor Pluton (Figure 2).

Property Geology

Several notable early surveyors and geologists from the Geological Survey of Canada including Dawson, Ogilvie, and McConnell travelled and are recorded to have inspected several nearby occurrences. H.S. Bostock in a 1936 memoir explicitly detail the geology of the area:

“An area of granitic rocks lies south of Tatlain lake and between it and Lewes river. It extends only a few miles east of the district where the contact with rocks of the Yukon group runs north and south. This area is apparently composed of granite, quartz monzonite, aplite, pegmatite, quartz porphyry, and partly assimilated bodies of recrystallized older rocks. The southern and eastern parts of the area are mainly occupied by a coarse, grey granite which commonly is porphyritic. The typical rock is slightly gneissoid and a few scattered phenocrysts are present. The phenocrysts vary greatly in abundance, making up much of the rock in some localities and being lacking in others. They are composed of orthoclase and microcline. In the groundmass, quartz is the chief constituent. Orthoclase and oligoclase are both abundant and some microcline is also present. Hornblende and biotite occur in variable quantities. Muscovite, apatite, titanite, magnetite, and epidote are present. In composition, the rock is a granite, but approaches quartz monzonite. In the northern parts of the area and over considerable areas in the central part the rock is light grey or white, medium to moderately fine grained, and commonly slightly foliated. Under the microscope quartz is seen to be the main constituent. Acid oligoclase, orthoclase, microcline, biotite, and hornblende are essential constituents, and muscovite, epidote, titanite, and magnetite are accessory. The rock is a quartz monzonite. It forms sheets in the granite and appears to intrude it, though this is not altogether certain. Both the granite and quartz monzonite are cut by narrow pegmatite and aplite dykes in many places and in one place a fine-grained quartz porphyry cuts the granite. The granite and the quartz monzonite contain areas of hornblende gneiss thought to be roof pendants of the Yukon group. They intrude the Mount Nansen group and in places near the contact the volcanics are recrystallized and schistose.”

In 2002 the area was in part combined with the Yukon Targeted Geoscience Initiative, accelerated bedrock mapping and till geochemistry for the Glenlyon (105L/1-7, 11-14) and northeast Carmacks (115I/9,16) areas, central Yukon. An excerpt from the report describes the underlying McGregor pluton:

“The Tatchun and McGregor batholiths are both composed of three intrusive phases. The earliest phase is a variably foliated, coarse -grained equigranular hornblende -biotite granodiorite. It is locally hornblende porphyritic. Rare gabbro is also associated with this phase of the Early Jurassic plutons. Biotite gabbro appears to be the earliest phase at the north end of Tatchun Batholith (105L/5; Colpron et al., 2002). A small body of augite gabbro to pyroxenite also occurs in the northern McGregor Batholith (115I/9). The granodiorite phase is intruded by medium-grained K-feldspar megacrystic granodiorite. The megacrystic phase is locally weakly foliated. Both phases of granodiorite typically contain magmatic

epidote indicating a minimum crystallization pressure of 6 kbar (Zen and Hammarstrom, 1984; Zen, 1989). The youngest phase is a beige -weathering, unfoliated, fine -grained leucogranite and aplite.”

No historic exploration work is recorded in the GHP area and immediate vicinity; however, based on underlying geology, regional geophysics, and nearby mineralization the exploration target is porphyry and intrusion-related styles of mineralization. The property is positioned within 50 km radius to one producing mines and multiple proven porphyry deposits. The project area lies approximately 50km southeast of the operating Minto Mine a deformed alkaline Cu-Au porphyry with a sulphide resource of 70.8 Mt grading 1.2 % Cu, 0.5 g.t Au and 4.2 g/t Ag (Mercer and Sagman, 2012). Approximately 50 Km to the southwest is the Freegold Mountain area, porphyry and intrusion-related deposits include; Tinta Hill (intrusion related vein), Revenue (Cu, Au, Mo porphyry), La Forma (high-sulphidation epithermal), and Guder (Au skarn). The closest significant mineralization is 30 km to the southwest the Copper North porphyry supergene deposit with an indicated and measured resource of 15.69 million tonnes oxide ore grading 0.94% Cu and 0.38g/t Au as of 2016.

Work Program & Results

Work Program

The 2019 ridge and spur soil sampling program was completed on several of the most prominent ridges and spurs across the property (Figure 6). The four-day program was carried out from October 7-10th, 2019 by a crew of 5 and using Horizon helicopters Airbus AS350SD based out of Whitehorse. A total of 450 soil samples were taken. Samples were first tested using a portable x-ray fluorescence detector (XRF) and based on anomalies in Au, Ag, As, Cu, Mo and REEs a total of 199 soil samples were submitted for additional analytical testing by ALS laboratories (Figure 7). Samples returned values up to 100 ppb Au, 200 ppb Ag, 18.5 ppm As, 65.2 ppm Cu, 1.25 ppm Mo, 11.8 ppm Pb and anomalous REEs including up to 44.6 ppm Li, 75.3 ppm La, 64.7 ppm Rb, and 13.35 ppm Y (Figures 8-14). Soils were taken by soil auger to the maximum obtainable depth and 100 m spaced intervals along prominent ridges and spurs. Areas of lower elevation particularly to the east was found to be overlain by a glacial lacustrine sediment and may not be representative of the bedrock.

Method

Soil Sampling

Soil sampling was carried out in a traditional manner using a Dutch soil auger that has a maximum reach of 100cm. The maximum obtainable depth and ‘C’ horizon soil was sought at each site; when this was unachieved ‘B’ horizon soil was collected or ‘A’ horizon in rare cases. Soil was collected in Hubco silt bags to allow for a larger sample volume and then placed in a poly sample bag to prevent cross contamination. Due to the heavier samples the helicopter would fly to the samplers lowering a basket in which they could unload their soils to make the process more efficient.

XRF

Once the soils were collected the 450 soils were transported to geologist James Thom who carried out analyzation using a portable XRF. Each sample was analyzed for a duration of 120 seconds. X-ray fluorescence is a process whereby electrons are displaced from their atomic orbital positions, releasing a burst of energy that is characteristic of a specific element. This release of energy is then registered by the detector in then XRF instrument, which in turn categorizes the energies by element. This allows for a quick method to determine which soils warrant further testing.

ALS Laboratories

The 199 soils submitted for assay were brought to the ALS prep facility in Whitehorse. Analytical tests were conducted by ALS Global in Vancouver, BC, which is ISO accredited. Samples are screened to remove coarse material and then crushed to 70% less than 2 millimetres, and a 250-gram sample is split with a riffle splitter. The split is pulverized to 85 per cent less than 75 microns, and 30 gram charges go through a multi-element assay with ICP-MS finish and Au fire assay. Samples with gold, silver, copper, lead, or zinc exceeding the upper detection level are reanalyzed with ore grade determinations that are deemed most appropriate by the lab. Rigorous procedures are in place regarding sample collection, chain of custody and data entry. Certified assay standards, duplicate samples and blanks are routinely inserted into the sample stream to ensure integrity of the assay process.

Results

The 2019 ridge and spur exploration program collected 450 soils at 100m intervals along all the prominent ridges and spurs across the Golden Horseshoe Property. Low undulating forested rolling hills made soil sampling a suitable option to assess the vast area that has little bedrock exposure. Samples returned values up to 100 ppb Au, 200 ppb Ag, 18.5 ppm As, 65.2 ppm Cu, 1.25 ppm Mo, 11.8 ppm Pb and anomalous REEs including up to 44.6 ppm Li, 75.3 ppm La, 64.7 ppm Rb, and 13.35 ppm Y (Figures 8-14). These anomalies only returned weakly to moderately anomalous values. However, when reviewing historic assessment reports from the minto area anomalies of 40ppm Cu were considered strongly anomalous and subsequently trenched. Several gold and arsenic values correspond with a large fault that displaces the geophysical anomaly. The XRF also takes readings for potassic, chloritic and silica alteration and that data is currently being interpreted.

Budget

HALO Claims Expenditure

Horizon Helicopter	Helicopter Transportation	\$ 23,239.02
Higher Ground Exploration	Soil sampling Program	\$ 20,878.45
Higher Ground Exploration	Sample XRF Analysis	\$ 4,725.00
ALS	Analytical	\$ 9,450.00

Total **\$ 58,292.47**

The total expenditures for the 2019 soil geochemical program is \$58,292.47.

Conclusion and Recommendations

The Golden Horseshoe property is situated in the Tintina Gold Belt, a zone of gold mineralization between the Tintina and Denali faults. The property is positioned within 50 km radius to one producing mines and multiple proven porphyry deposits. The project area lies approximately 50km southeast of the operating Minto Mine a deformed alkaline Cu-Au porphyry with a sulphide resource of 70.8 Mt grading 1.2 % Cu, 0.5 g.t Au and 4.2 g/t Ag (Mercer and Sagman, 2012). Approximately 50 Km to the southwest is the Freegold Mountain area, porphyry and intrusion-related deposits include; Tinta Hill (intrusion related vein), Revenue (Cu, Au, Mo porphyry), La Forma (high-sulphidation epithermal), and Guder (Au skarn). The closest significant mineralization is 30 km to the southwest the Copper North porphyry supergene

deposit with an indicated and measured resource of 15.69 million tonnes oxide ore grading 0.94% Cu and 0.38g/t Au as of 2016.

The McGregor Pluton is on the front line of this extensively active area of porphyry and intrusion-related mineralization, yet the area is virgin to exploration. The 9km x 14km anomaly could hold potential for a large-scale bulk tonnage porphyry deposit. Despite discouraging first pass assay results, drill core displayed an extensively altered intrusive and likely did not penetrate the overlying leech cap. The geological setting of a younger intrusive intruding another older intrusive is analogous to the Casino deposit located 130 km to the northwest. At Casino, the primary supergene enrichment occurs beneath the leech cap at approximately 300m depth. Exploring porphyry targets require multiple holes generally before significant mineralization is intersected. The extent of alteration observed in core displayed sections of potassic alteration derived from magmatic source and extensive alteration from likely meteoric fluids. Duplicate samples from 2016 hole will be re assayed to ensure quality of results.

The 2019 ridge and spur geochemical survey was successful in producing moderate anomalies and targets for further exploration. Further work is recommended to determine if there is an underlying porphyry potential and whether a fertile intrusion exists. Recommended work consisting of hand or mechanical trenching on soil anomalies and test pitting in areas of interest based on the airborne geophysics. If positive results are determined in trenches a subsequent phase of drilling is recommended. If positive geochemical results are returned it should be considered to extend radiometric and magnetic airborne geophysical survey. Further drilling should be done to extend the drilled hole to the minimum depth of 600m and to test any mineralization discovered in trenches to depth. Nearby infrastructure allows for cost effective exploration and good feasibility if significant discoveries are made.

Statement of Qualifications

I Nicolai Goeppel, of the city of Whitehorse, Yukon, certify that:

1. I have worked and carried out work on the Golden Horseshoe Property since 2016
2. I have completed an Earth Sciences B.Sc. at Memorial University of St. John's, Newfoundland in 2014
3. I have worked in the mineral exploration industry in the Yukon, Newfoundland, and British Columbia since 2009
4. I have been involved in the placer industry my whole life and engaged in placer gold exploration in the Yukon since 2009
5. Owner and founder of Higher Ground Exploration Services since 2015

Reference

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area, central Yukon. In: Yukon Exploration and Geology 2002, D.S. Emond and L.L. Lewis (eds.), Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, p. 109 - 134.

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Appendix I

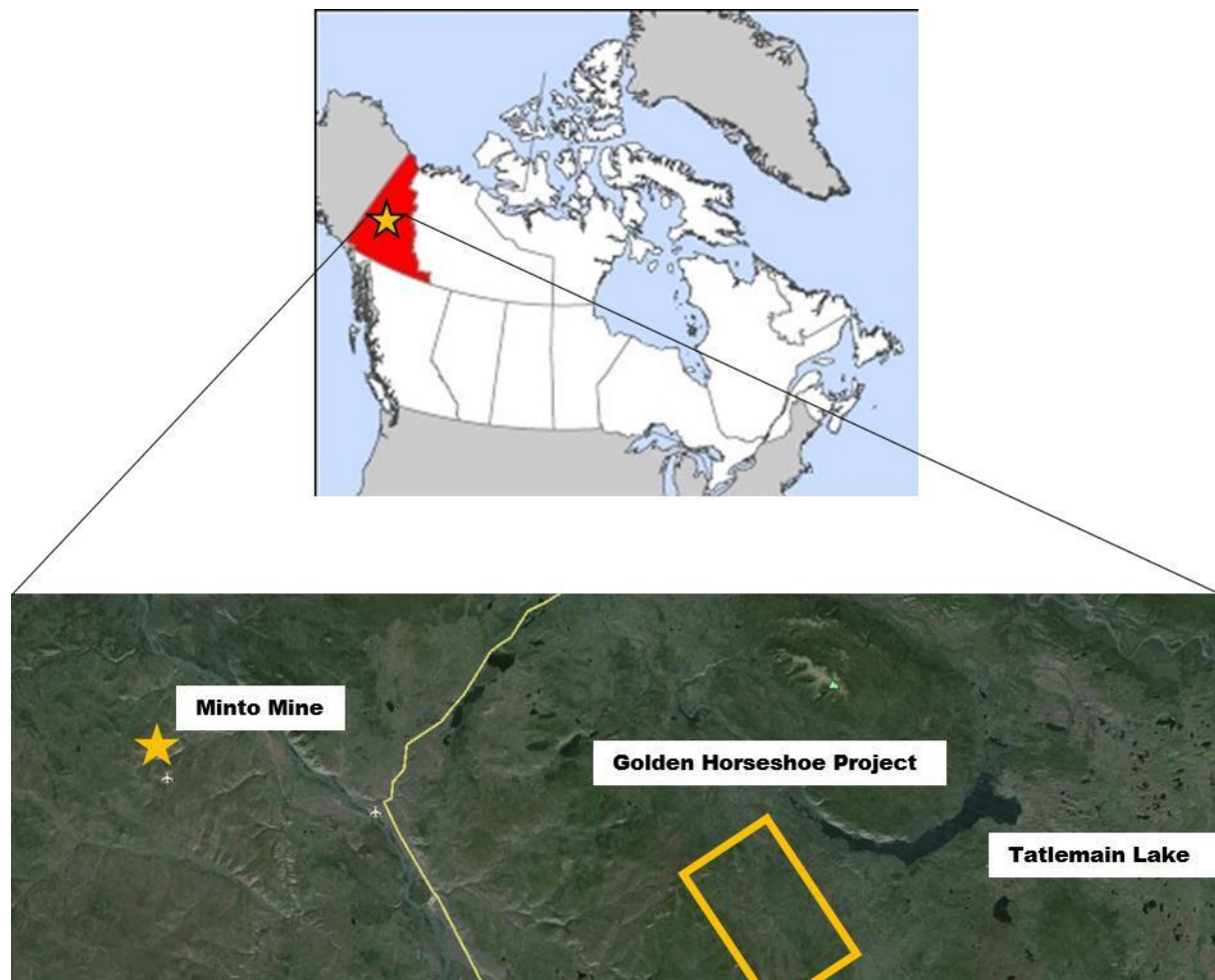


Figure 1. Location

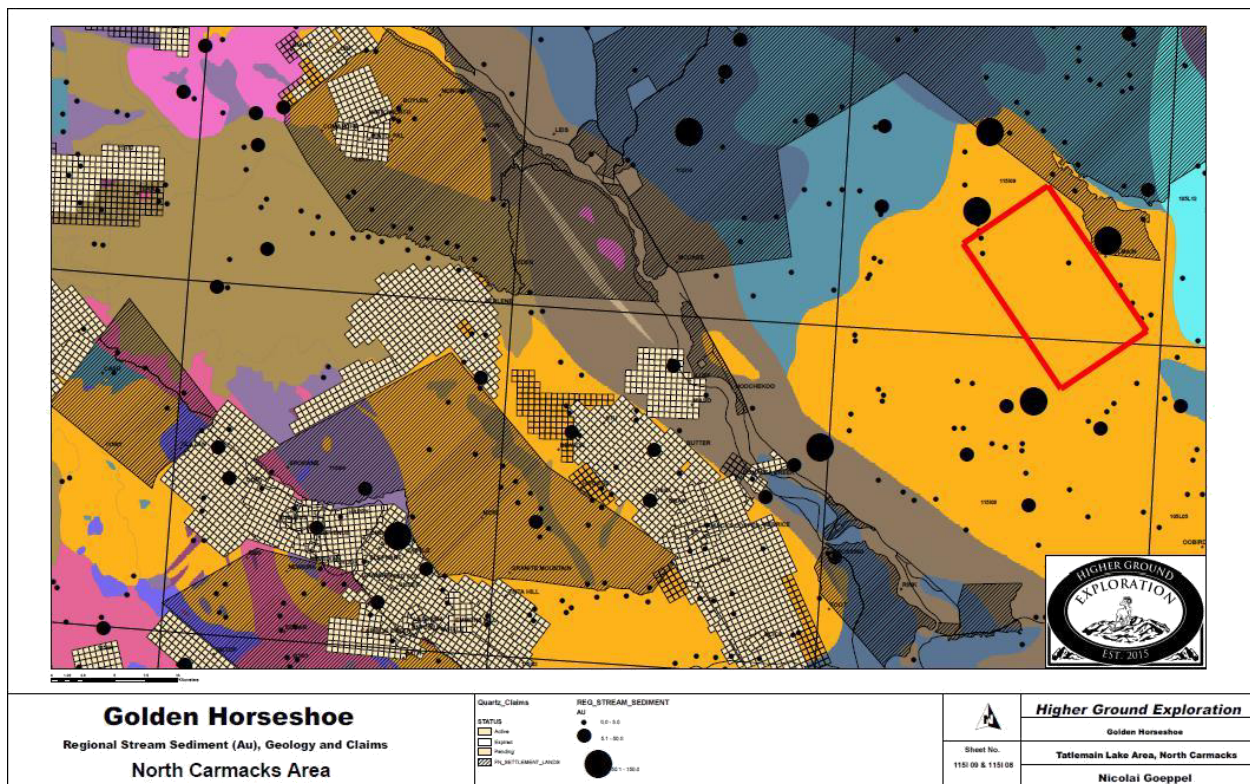
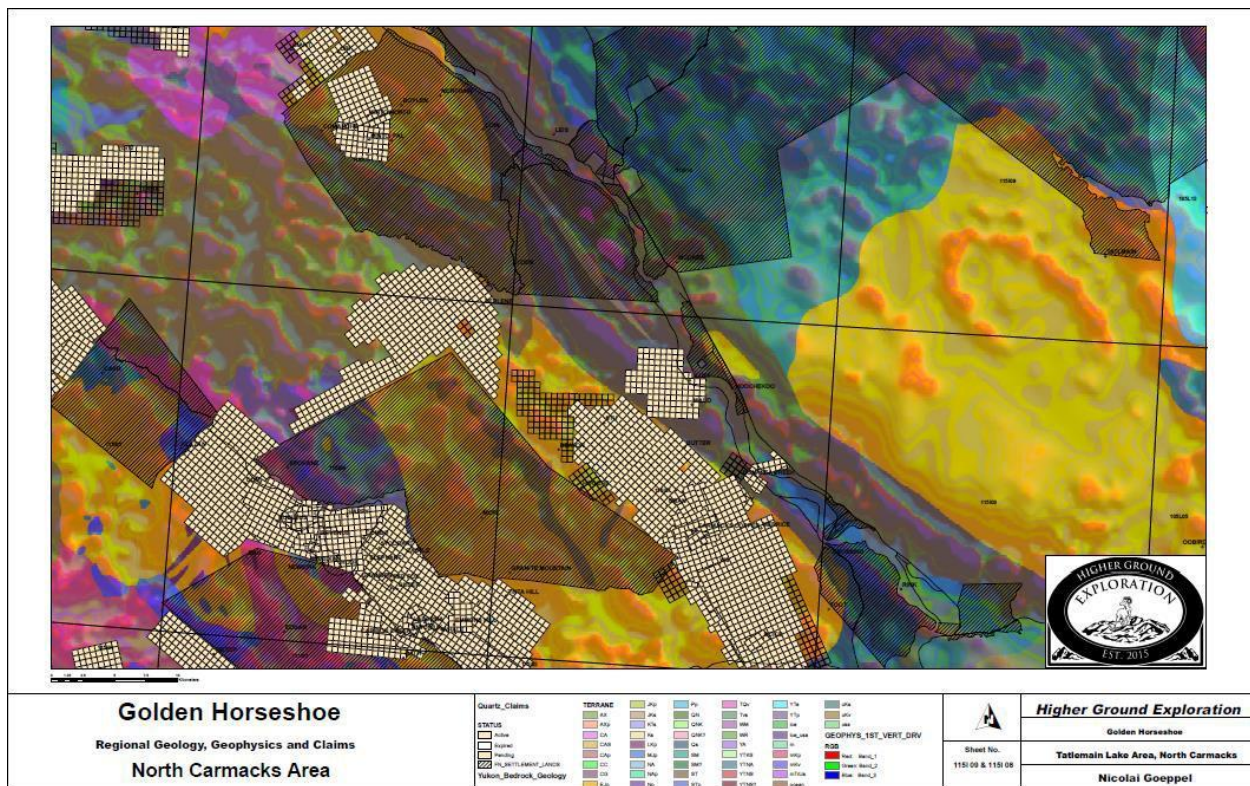


Figure 2. Geology and Au-in-silt RGS.



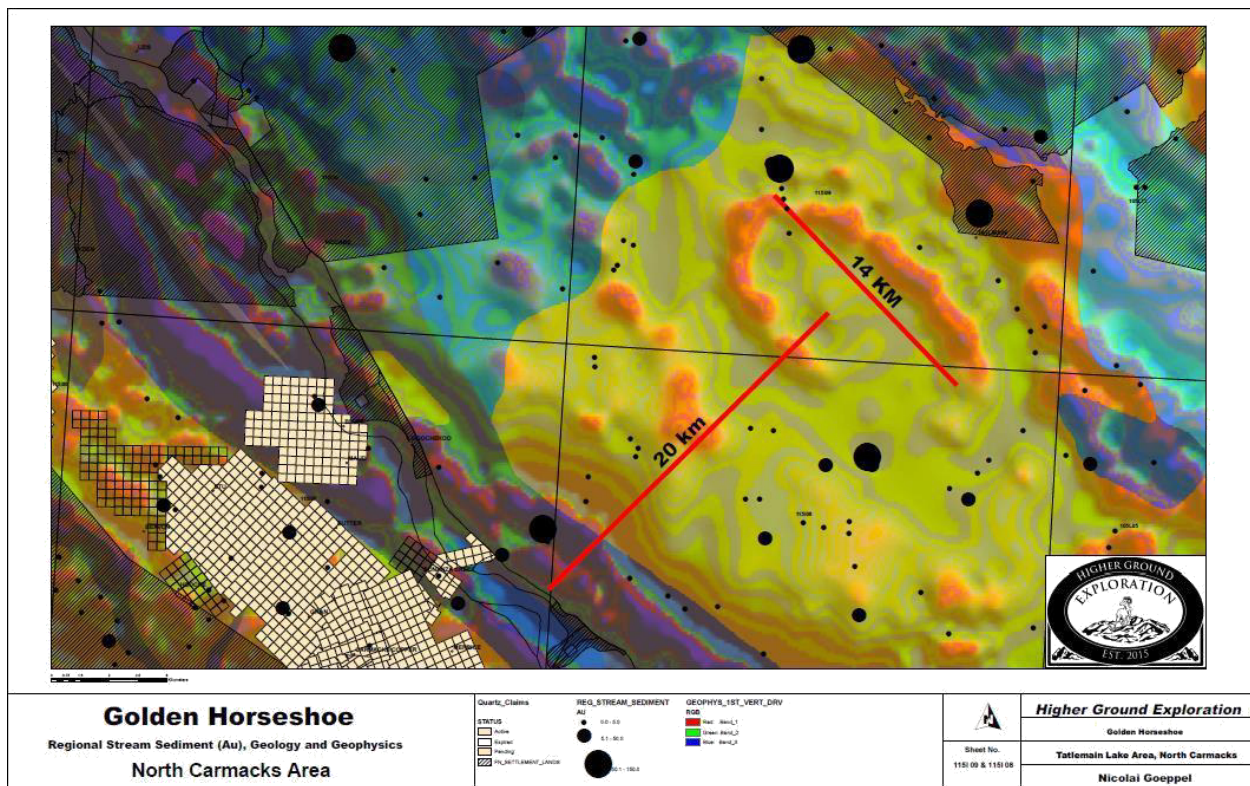


Figure 4. Close up on Horseshoe anomaly.

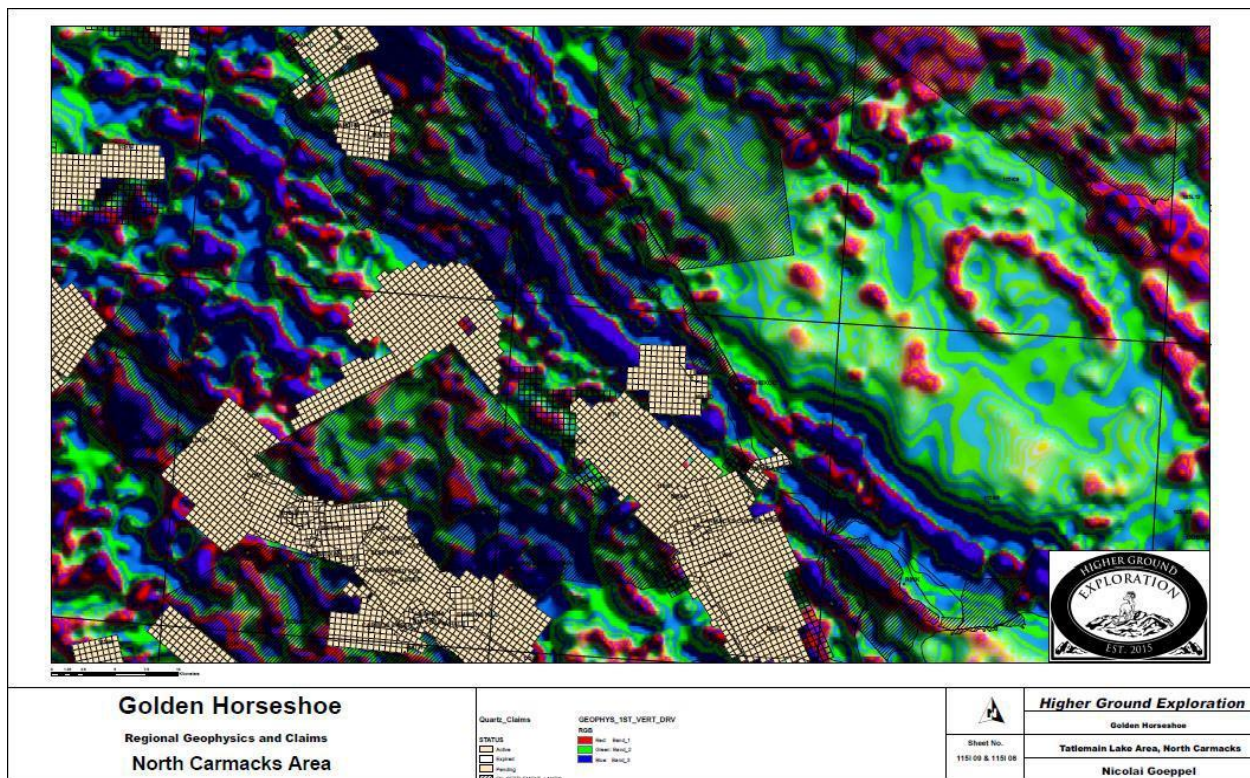


Figure 5. Regional First Vertical Derivative.

Higher Ground Exploration Services

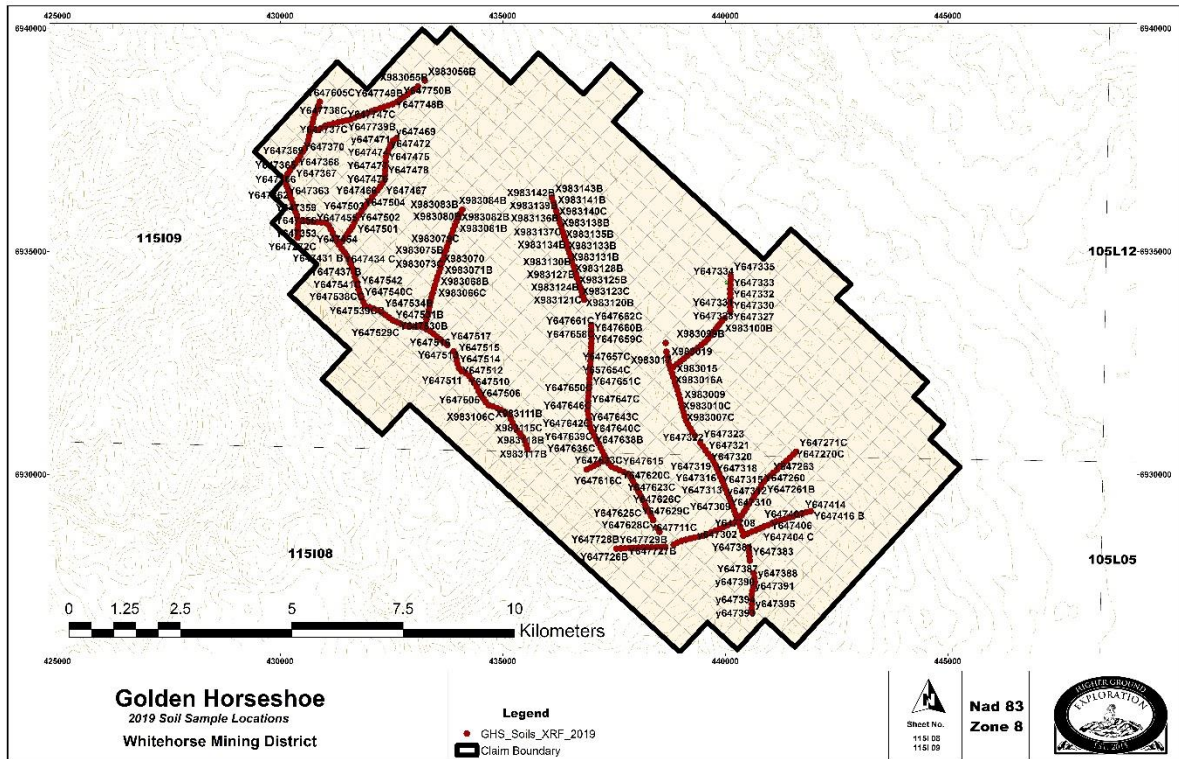


Figure 6. 2019 Ridge and Spur Soil Sample Locations

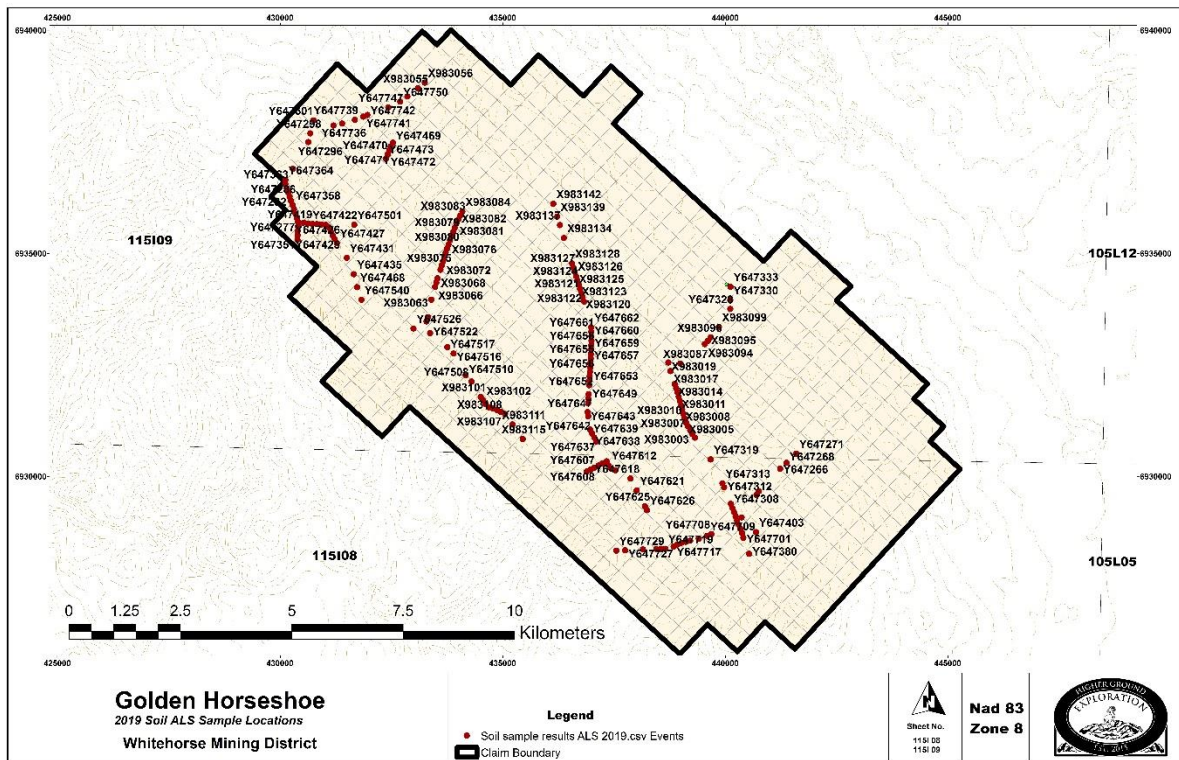


Figure 7. 2019 Assayed Soils

Golden Horseshoe
2019 Soil Li
Whitehorse Mining District

Legend

- Li (ppm)
 - 300,000 - 19,600,000
 - 19,600,001 - 44,600,000
- Claim Boundary

Nad 83 Zone 8

Golden Horseshoe
2019 Soil Cu
Whitehorse Mining District

Cu (ppm)

- 2.400000 - 25.000000
- 25.000001 - 65.200000

Legend

- Claim Boundary

Nad 83 Zone 8

Scale: 0 1 2 3 4 Kilometers

Coordinates: 430000, 435000, 440000, 445000 (Horizontal); 6030000, 6080000, 6130000 (Vertical)

Map Labels: Y647734, X983086, X983052, Y647733, Y647736, Y647470, Y647472, Y647473, Y647471, Y647298, Y647364, Y647356, Y647421, Y647423, Y647501, Y647410, Y647426, Y647427, Y647351, Y647425, X983083, X983084, X983080, X983082, X983081, X983079, X983076, X983075, X983071, X983072, X983073, X983068, X983067, X983063, X983053, Y647528, Y647522, Y647517, Y647516, Y647510, Y647506, X983105, X983107, X983106, X983111, X983115, Y647643, Y647646, Y647645, Y647639, Y647638, Y647637, Y647609, Y647614, Y647611, Y647613, Y647618, Y647621, Y647625, Y647626, Y647308, Y647307, Y647306, Y647304, Y647305, Y647711, Y647701, Y647709, Y647729, Y647722, Y647730, X983135, X983142, X983137, X983134, X983127, X983128, X983126, X983124, X983125, X983123, X983122, X983120, X983119, Y647662, Y647660, Y647659, Y647658, Y647657, Y647656, Y647653, X983019, X983096, X983099, X983094, X983095, X983087, X983017, X983014, X983013, X983011, X983012, X983008, X983010, X983009, X983007, X983006, X983004, X983003, Y647319, Y647268, Y647266, Y647312, Y647313, Y647259, Y647701, Y647709, Y647722, Y647729, Y647730.

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Higher Ground Exploration Services

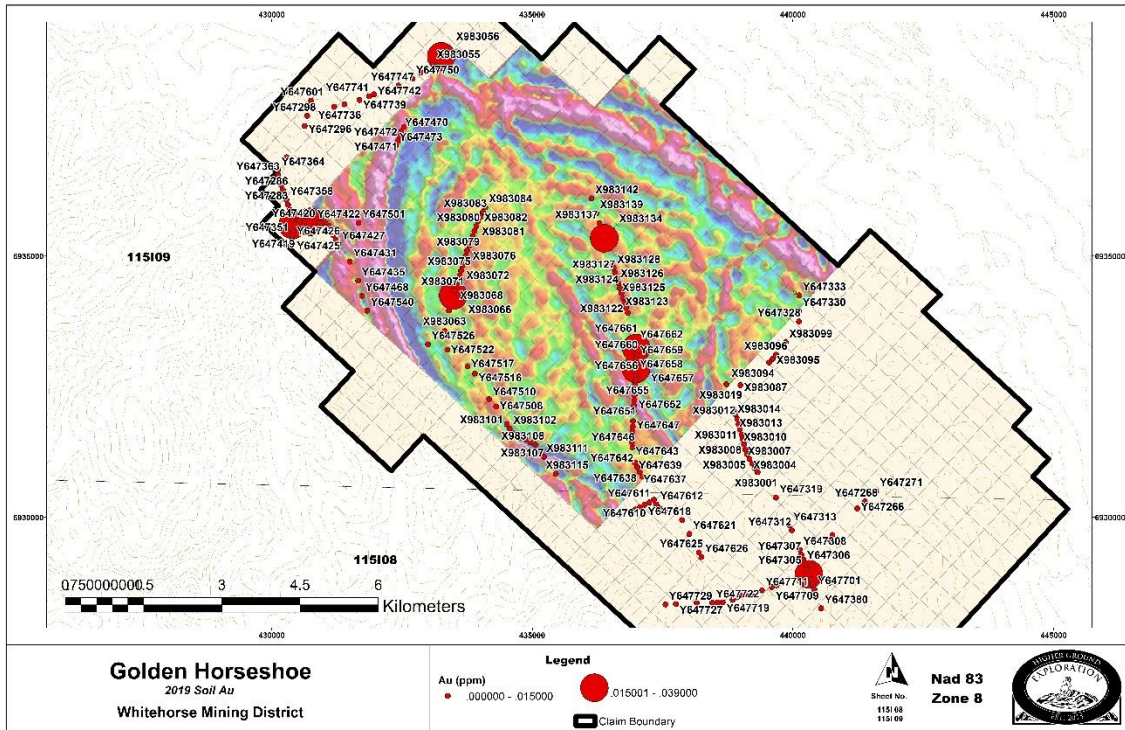


Figure 10. Soil Geochemistry Au

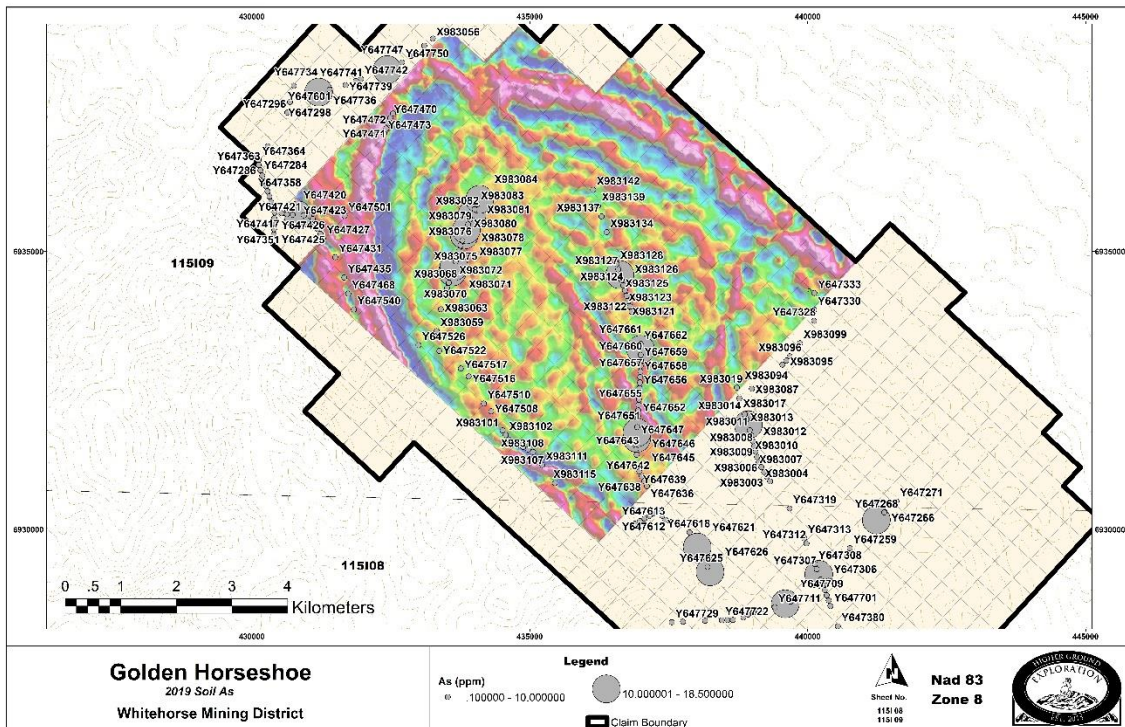


Figure 11. Soil Geochemistry As

Golden Horseshoe
2019 Soil Zn
Whitehorse Mining District

Legend

Zn (ppm)

- 8 - 75
- 76 - 93

Claim Boundary

Scale: 0 0.5 1 2 3 4 Kilometers

Map coordinates: 436000, 435000, 440000, 445000, 1151000, 1150000, 1149000, 1148000

Map labels: Y647601, Y647742, Y647741, Y647739, Y647296, Y647472, Y647470, Y647473, Y647471, Y647364, Y647288, Y647283, Y647358, Y647421, Y647423, Y647501, Y647417, Y647426, Y647427, Y647351, Y647425, Y647431, Y647435, Y647468, Y647540, X983063, X983067, X983059, Y647526, Y647522, Y647517, Y647516, Y647510, Y647508, X983101, X983102, X983108, X983107, X983111, X983115, Y647637, Y647609, Y647614, Y647618, Y647621, Y647625, Y647626, Y647307, Y647306, Y647304, Y647305, Y647711, Y647701, Y647729, Y647722, Y647703, Y647720, X983056, X983058, X983055, X983084, X983080, X983082, X983081, X983079, X983075, X983073, X983072, X983068, X983063, X983099, X983098, X983095, X983094, X983087, X983014, X983017, X983011, X983013, X983012, X983010, X983009, X983007, X983006, X983004, X983003, Y647319, Y647268, Y647256, Y647259, Y647313, Y647303, Y647304, Y647305, Y647711, Y647701, Y647729, Y647722, Y647703, Y647720, X983142, X983137, X983139, X983134, X983129, X983127, X983126, X983124, X983125, X983123, X983122, X983121, X983119, Y647662, Y647661, Y647660, Y647655, Y647659, Y647657, X983019, X983094, X983087, X983014, X983017, X983011, X983013, X983012, X983010, X983009, X983007, X983006, X983004, X983003, Y647319, Y647268, Y647256, Y647259, Y647313, Y647303, Y647304, Y647305, Y647711, Y647701, Y647729, Y647722, Y647703, Y647720, X983142, X983137, X983139, X983134, X983129, X983127, X983126, X983124, X983125, X983123, X983122, X983121, X983119, Y647662, Y647661, Y647660, Y647655, Y647659, Y647657, X983019, X983094, X983087, X983014, X983017, X983011, X983013, X983012, X983010, X983009, X983007, X983006, X983004, X983003, Y647319, Y647268, Y647256, Y647259, Y647313, Y647303, Y647304, Y647305, Y647711, Y647701, Y647729, Y647722, Y647703, Y647720, X983142, X983137, X983139, X983134, X983129, X983127, X983126, X983124, X983125, X983123, X983122, X983121, X983119, Y647662, Y647661, Y647660, Y647655, Y647659, Y647657, X983019, X983094, X983087, X983014, X983017, X983011, X983013, X983012, X983010, X983009, X983007, X983006, X983004, X983003, Y647319, Y647268, Y647256, Y647259, Y647313, Y647303, Y647304, Y647305, Y647711, Y647701, Y647729, Y647722, Y647703, Y647720, X983142, X983137, X983139, X983134, X983129, X983127, X983126, X983124, X983125, X983123, X983122, X983121, X983119, Y647662, Y647661, Y647660, Y647655, Y647659, Y647657, X983019, X983094, X983087, X983014, X983017, X983011, X983013, X983012, X983010, X983009, X983007, X983006, X983004, X983003, Y647319, Y647268, Y647256, Y647259, Y647313, Y647303, Y647304, Y647305, Y647711, Y647701, Y647729, Y647722, Y647703, Y647720, X983142, X983137, X983139, X983134, X983129, X983127, X983126, X983124, X983125, X983123, X983122, X983121, X983119, Y647662, Y647661, Y647660, Y647655, Y647659, Y647657, X983019, X983094, X983087, X983014, X983017, X983011, X983013, X983012, X983010, X983009, X983007, X983006, X983004, X983003, Y647319, Y647268, Y647256, Y647259, Y647313, Y647303, Y647304, Y647305, Y647711, Y647701, Y647729, Y647722, Y647703, Y647720, X983142, X983137, X983139, X983134, X983129, X983127, X983126, X983124, X983125, X983123, X983122, X983121, X983119, Y647662, Y647661, Y647660, Y647655, Y647659, Y647657, X983019, X983094, X983087, X983014, X983017, X983011, X983013, X983012, X983010, X983009, X983007, X983006, X983004, X983003, Y647319, Y647268, Y647256, Y647259, Y647313, Y647303, Y647304, Y647305, Y647711, Y647701, Y647729, Y647722, Y647703, Y647720, X983142, X983137, X983139, X983134, X983129, X983127, X983126, X983124, X983125, X983123, X983122, X983121, X983119, Y647662, Y647661, Y647660, Y647655, Y647659, Y647657, X983019, X983094, X983087, X983014, X983017, X983011, X983013, X983012, X983010, X983009, X983007, X983006, X983004, X983003, Y647319, Y647268, Y647256, Y647259, Y647313, Y647303, Y647304, Y647305, Y647711, Y647701, Y647729, Y647722, Y647703, Y647720, X983142, X983137, X983139, X983134, X983129, X983127, X983126, X983124, X983125, X983123, X983122, X983121, X983119, Y647662, Y647661, Y647660, Y647655, Y647659, Y647657, X983019, X983094, X983087, X983014, X983017, X983011, X983013, X983012, X983010, X983009, X983007, X983006, X983004, X983003, Y647319, Y647268, Y647256, Y647259, Y647313, Y647303, Y647304, Y647305, Y647711, Y647701, Y647729, Y647722, Y647703

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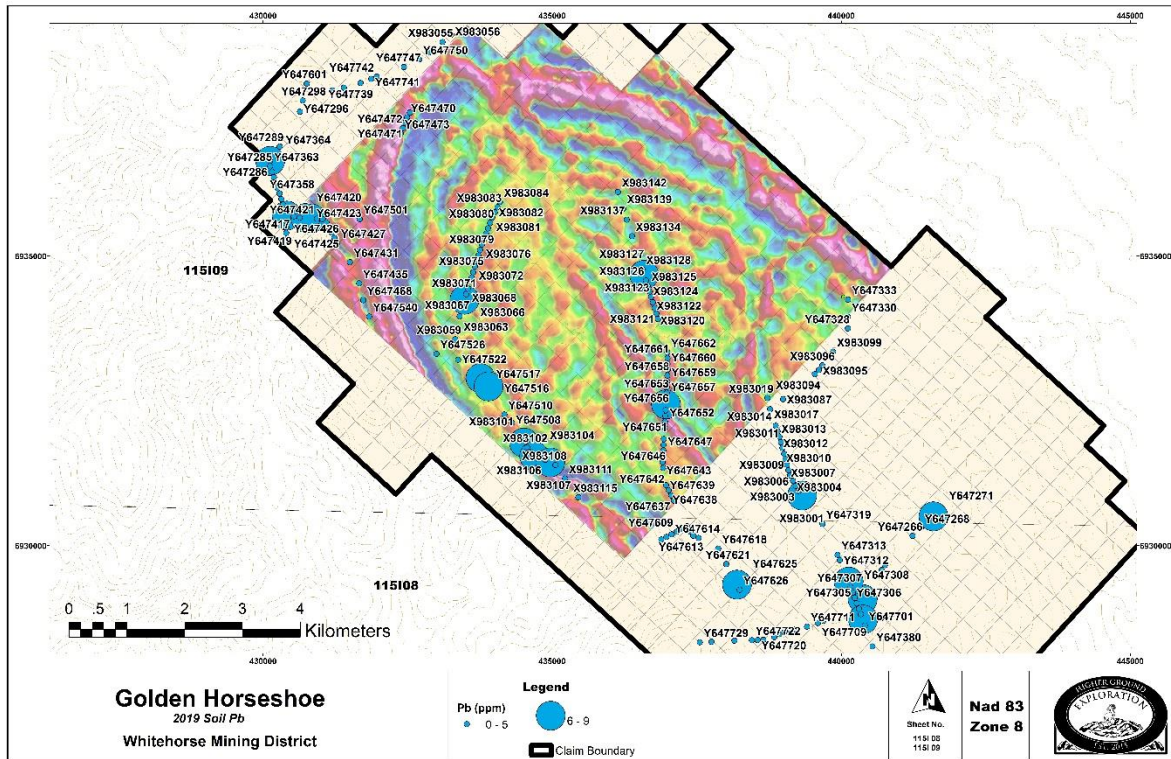


Figure 14. Soil Geochemistry Pb

Appendix II

Claims Work Performed On

GRANT_NUM	TENURE	STATUS	LABEL	CLAIM_NAME	CLAIM_NUM	OWNER	STAKE_DATE	RECORDED	EXPIRY_DAT	DISTRICT
YF50510	Quartz	Active	HALO 156	HALO	156	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YE95102	Quartz	Active	HALO 558	HALO	558	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE95127	Quartz	Active	HALO 583	HALO	583	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YF50432	Quartz	Active	HALO 78	HALO	78	Thi My Linh Pham - 100%	2016-08-16 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YE94818	Quartz	Active	HALO 274	HALO	274	Thi My Linh Pham - 100%	2018-10-17 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE95021	Quartz	Active	HALO 477	HALO	477	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE95098	Quartz	Active	HALO 554	HALO	554	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE94958	Quartz	Active	HALO 414	HALO	414	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE95104	Quartz	Active	HALO 560	HALO	560	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YF50529	Quartz	Active	HALO 175	HALO	175	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YE95062	Quartz	Active	HALO 518	HALO	518	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE94959	Quartz	Active	HALO 415	HALO	415	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE94883	Quartz	Active	HALO 339	HALO	339	Thi My Linh Pham - 100%	2018-10-17 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE95129	Quartz	Active	HALO 585	HALO	585	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE94835	Quartz	Active	HALO 291	HALO	291	Thi My Linh Pham - 100%	2018-10-17 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE94967	Quartz	Active	HALO 423	HALO	423	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YF52034	Quartz	Active	HALO 224	HALO	224	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YE94836	Quartz	Active	HALO 292	HALO	292	Thi My Linh Pham - 100%	2018-10-17 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE94831	Quartz	Active	HALO 287	HALO	287	Thi My Linh Pham - 100%	2018-10-17 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE95070	Quartz	Active	HALO 526	HALO	526	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE95023	Quartz	Active	HALO 479	HALO	479	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YF50527	Quartz	Active	HALO 173	HALO	173	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YF52066	Quartz	Active	HALO 256	HALO	256	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YE95125	Quartz	Active	HALO 581	HALO	581	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YF50509	Quartz	Active	HALO 155	HALO	155	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YF50562	Quartz	Active	HALO 208	HALO	208	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YF50064	Quartz	Active	HALO 24	HALO	24	Thi My Linh Pham - 100%	2016-07-15 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YF50476	Quartz	Active	HALO 122	HALO	122	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YF50063	Quartz	Active	HALO 23	HALO	23	Thi My Linh Pham - 100%	2016-07-15 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YF50445	Quartz	Active	HALO 91	HALO	91	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YE94961	Quartz	Active	HALO 417	HALO	417	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse

Claims Work Performed On

GRANT_NUM	TENURE	STATUS	LABEL	CLAIM_NAME	CLAIM_NUM	OWNER	STAKE_DATE	RECORDED	EXPIRY_DAT	DISTRICT
YF52064	Quartz	Active	HALO 254	HALO	254	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YF50098	Quartz	Active	HALO 58	HALO	58	Thi My Linh Pham - 100%	2016-07-15 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YE94880	Quartz	Active	HALO 336	HALO	336	Thi My Linh Pham - 100%	2018-10-17 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE95064	Quartz	Active	HALO 520	HALO	520	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE94812	Quartz	Active	HALO 268	HALO	268	Thi My Linh Pham - 100%	2018-10-17 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE95099	Quartz	Active	HALO 555	HALO	555	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE95074	Quartz	Active	HALO 530	HALO	530	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE94838	Quartz	Active	HALO 294	HALO	294	Thi My Linh Pham - 100%	2018-10-17 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE94814	Quartz	Active	HALO 270	HALO	270	Thi My Linh Pham - 100%	2018-10-17 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YF50524	Quartz	Active	HALO 170	HALO	170	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YE94945	Quartz	Active	HALO 401	HALO	401	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YF50531	Quartz	Active	HALO 177	HALO	177	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YF50478	Quartz	Active	HALO 124	HALO	124	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YF52037	Quartz	Active	HALO 227	HALO	227	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YE95137	Quartz	Active	HALO 593	HALO	593	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE95126	Quartz	Active	HALO 582	HALO	582	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YF50461	Quartz	Active	HALO 107	HALO	107	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YE94993	Quartz	Active	HALO 449	HALO	449	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE95020	Quartz	Active	HALO 476	HALO	476	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YF50552	Quartz	Active	HALO 198	HALO	198	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YF50493	Quartz	Active	HALO 139	HALO	139	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YE94824	Quartz	Active	HALO 280	HALO	280	Thi My Linh Pham - 100%	2018-10-17 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YF50062	Quartz	Active	HALO 22	HALO	22	Thi My Linh Pham - 100%	2016-07-15 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YE95106	Quartz	Active	HALO 562	HALO	562	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YF50060	Quartz	Active	HALO 20	HALO	20	Thi My Linh Pham - 100%	2016-07-15 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YF50088	Quartz	Active	HALO 48	HALO	48	Thi My Linh Pham - 100%	2016-07-15 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YE95068	Quartz	Active	HALO 524	HALO	524	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE94840	Quartz	Active	HALO 296	HALO	296	Thi My Linh Pham - 100%	2018-10-17 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE94985	Quartz	Active	HALO 441	HALO	441	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE95101	Quartz	Active	HALO 557	HALO	557	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE94947	Quartz	Active	HALO 403	HALO	403	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse

Claims Work Performed On

GRANT_NUM	TENURE	STATUS	LABEL	CLAIM_NAME	CLAIM_NUM	OWNER	STAKE_DATE	RECORDED	EXPIRY_DAT	DISTRICT
YE94817	Quartz	Active	HALO 273	HALO	273	Thi My Linh Pham - 100%	2018-10-17 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YF50065	Quartz	Active	HALO 25	HALO	25	Thi My Linh Pham - 100%	2016-07-15 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YF50494	Quartz	Active	HALO 140	HALO	140	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YF50057	Quartz	Active	HALO 17	HALO	17	Thi My Linh Pham - 100%	2016-07-15 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YF50444	Quartz	Active	HALO 90	HALO	90	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YF50099	Quartz	Active	HALO 59	HALO	59	Thi My Linh Pham - 100%	2016-07-15 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YE95057	Quartz	Active	HALO 513	HALO	513	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE95061	Quartz	Active	HALO 517	HALO	517	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YF50446	Quartz	Active	HALO 92	HALO	92	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YF50082	Quartz	Active	HALO 42	HALO	42	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YF50087	Quartz	Active	HALO 47	HALO	47	Thi My Linh Pham - 100%	2016-07-15 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YF50522	Quartz	Active	HALO 168	HALO	168	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YF50074	Quartz	Active	HALO 34	HALO	34	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YE94956	Quartz	Active	HALO 412	HALO	412	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YF50464	Quartz	Active	HALO 110	HALO	110	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YF50521	Quartz	Active	HALO 167	HALO	167	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YE94833	Quartz	Active	HALO 289	HALO	289	Thi My Linh Pham - 100%	2018-10-17 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YF50525	Quartz	Active	HALO 171	HALO	171	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YF50058	Quartz	Active	HALO 18	HALO	18	Thi My Linh Pham - 100%	2016-07-15 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YE95072	Quartz	Active	HALO 528	HALO	528	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YF50447	Quartz	Active	HALO 93	HALO	93	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YE95019	Quartz	Active	HALO 475	HALO	475	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE94948	Quartz	Active	HALO 404	HALO	404	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE95017	Quartz	Active	HALO 473	HALO	473	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE94825	Quartz	Active	HALO 281	HALO	281	Thi My Linh Pham - 100%	2018-10-17 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YF50479	Quartz	Active	HALO 125	HALO	125	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YF50477	Quartz	Active	HALO 123	HALO	123	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YF52062	Quartz	Active	HALO 252	HALO	252	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YE95022	Quartz	Active	HALO 478	HALO	478	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YF52060	Quartz	Active	HALO 250	HALO	250	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YF52035	Quartz	Active	HALO 225	HALO	225	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse

Claims Work Performed On

GRANT_NUM	TENURE	STATUS	LABEL	CLAIM_NAME	CLAIM_NUM	OWNER	STAKE_DATE	RECORDED	EXPIRY_DAT	DISTRICT
YF50551	Quartz	Active	HALO 197	HALO	197	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YE95059	Quartz	Active	HALO 515	HALO	515	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YF50431	Quartz	Active	HALO 77	HALO	77	Thi My Linh Pham - 100%	2016-08-16 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YE95128	Quartz	Active	HALO 584	HALO	584	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YF50463	Quartz	Active	HALO 109	HALO	109	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YE95066	Quartz	Active	HALO 522	HALO	522	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE94881	Quartz	Active	HALO 337	HALO	337	Thi My Linh Pham - 100%	2018-10-17 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YF50097	Quartz	Active	HALO 57	HALO	57	Thi My Linh Pham - 100%	2016-07-15 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YE94882	Quartz	Active	HALO 338	HALO	338	Thi My Linh Pham - 100%	2018-10-17 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE94986	Quartz	Active	HALO 442	HALO	442	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YF52036	Quartz	Active	HALO 226	HALO	226	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YF50564	Quartz	Active	HALO 210	HALO	210	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YF50526	Quartz	Active	HALO 172	HALO	172	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YE94816	Quartz	Active	HALO 272	HALO	272	Thi My Linh Pham - 100%	2018-10-17 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YF50096	Quartz	Active	HALO 56	HALO	56	Thi My Linh Pham - 100%	2016-07-15 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YE94994	Quartz	Active	HALO 450	HALO	450	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YF50511	Quartz	Active	HALO 157	HALO	157	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YE94819	Quartz	Active	HALO 275	HALO	275	Thi My Linh Pham - 100%	2018-10-17 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE94965	Quartz	Active	HALO 421	HALO	421	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE94842	Quartz	Active	HALO 298	HALO	298	Thi My Linh Pham - 100%	2018-10-17 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE94823	Quartz	Active	HALO 279	HALO	279	Thi My Linh Pham - 100%	2018-10-17 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE94957	Quartz	Active	HALO 413	HALO	413	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE94963	Quartz	Active	HALO 419	HALO	419	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YF50528	Quartz	Active	HALO 174	HALO	174	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YF50084	Quartz	Active	HALO 44	HALO	44	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YF50462	Quartz	Active	HALO 108	HALO	108	Thi My Linh Pham - 100%	2016-08-08 0:00	2016-08-16 0:00	2020-04-16 0:00	Whitehorse
YE95030	Quartz	Active	HALO 486	HALO	486	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE95031	Quartz	Active	HALO 487	HALO	487	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse
YE95065	Quartz	Active	HALO 521	HALO	521	Thi My Linh Pham - 100%	2018-10-16 0:00	2018-11-06 0:00	2019-11-06 0:00	Whitehorse



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Page: 1
Total # Pages: 6 (A - D)
Plus Appendix Pages
Finalized Date: 9-JAN-2020
Account: KLUDRIL

CERTIFICATE WH19318889

Project: GHS

This report is for 199 Soil samples submitted to our lab in Whitehorse, YT, Canada on 16-DEC-2019.

The following have access to data associated with this certificate:

JIM COYNE

NICOLAI. GOEPEL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-MS41	Ultra Trace Aqua Regia ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver



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CERTIFICATE OF ANALYSIS WH19318889

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.02	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
X983001		0.87	0.008	0.16	1.59	8.8	<0.02	<10	210	0.46	0.17	0.16	0.05	25.6	7.7	30
X983002		0.72	0.007	0.06	1.54	8.5	<0.02	<10	210	0.39	0.17	0.17	0.05	27.1	5.7	29
X983003		0.53	0.005	0.15	1.54	8.2	<0.02	<10	160	0.37	0.17	0.17	0.11	18.45	7.6	25
X983004		0.50	0.006	0.05	1.49	8.9	<0.02	<10	140	0.35	0.13	0.17	0.08	19.20	7.4	26
X983005		0.74	<0.005	0.08	1.02	5.8	<0.02	<10	140	0.21	0.11	0.14	0.08	15.05	4.6	17
X983006		1.22	0.005	0.07	1.47	9.2	<0.02	<10	250	0.46	0.15	0.24	0.09	26.8	7.8	27
X983007		1.00	<0.005	0.09	1.42	8.0	<0.02	<10	300	0.43	0.14	0.35	0.11	23.6	11.8	24
X983008		1.02	0.005	0.06	1.58	9.5	<0.02	<10	250	0.43	0.15	0.26	0.08	24.8	7.2	28
X983009		0.86	0.005	0.06	1.67	8.9	<0.02	<10	330	0.49	0.15	0.29	0.04	26.6	8.4	30
X983010		0.76	<0.005	0.13	1.77	8.5	<0.02	<10	150	0.43	0.17	0.15	0.11	18.85	7.5	27
X983011		1.03	0.005	0.04	1.44	7.8	<0.02	<10	250	0.46	0.14	0.27	0.05	28.9	8.5	28
X983012		0.73	0.005	0.18	2.64	12.2	<0.02	<10	350	0.62	0.20	0.43	0.12	26.9	12.6	40
X983013		0.82	<0.005	0.12	1.47	9.5	<0.02	<10	390	0.46	0.14	0.76	0.19	23.9	8.8	26
X983014		0.90	0.005	0.12	1.13	6.6	<0.02	<10	330	0.36	0.12	0.58	0.12	23.2	7.3	22
X983017		1.05	0.006	0.16	1.37	5.6	<0.02	<10	410	0.47	0.13	0.73	0.10	26.7	7.4	24
X983019		0.58	<0.005	0.10	1.26	8.5	<0.02	<10	300	0.38	0.11	0.83	0.20	21.5	9.4	23
X983052		0.58	0.007	0.13	1.12	9.0	<0.02	<10	300	0.43	0.13	0.57	0.14	29.9	9.2	24
X983055		0.66	0.006	0.11	1.09	7.3	<0.02	<10	310	0.36	0.12	0.74	0.07	24.0	7.1	23
X983056		0.65	0.024	0.14	1.04	7.7	<0.02	<10	300	0.36	0.11	0.71	0.13	21.8	7.3	23
X983099		0.50	0.009	0.10	0.84	2.6	<0.02	<10	250	0.30	0.08	0.53	0.09	20.1	5.3	17
X983111		0.94	0.006	0.01	1.62	9.4	<0.02	<10	100	0.36	0.11	0.21	0.12	17.65	10.1	27
X983115		0.70	<0.005	0.10	1.56	8.6	<0.02	<10	150	0.35	0.11	0.10	0.09	14.15	6.5	20
X983134		0.49	0.021	0.05	1.17	5.9	<0.02	<10	150	0.31	0.12	0.19	0.06	15.25	5.7	19
X983137		1.07	<0.005	0.03	1.38	2.9	<0.02	<10	340	0.26	0.08	0.31	0.03	44.9	6.1	13
X983139		0.96	0.011	0.02	1.47	8.6	<0.02	<10	250	0.52	0.14	0.26	0.02	39.1	8.3	31
X983142		0.57	<0.005	0.05	1.73	7.7	<0.02	<10	220	0.44	0.14	0.19	0.06	17.50	8.0	26
X983058		0.65	0.009	0.02	1.59	9.5	<0.02	<10	170	0.43	0.13	0.26	0.04	28.3	8.2	28
X983059		0.53	<0.005	0.02	1.43	8.1	<0.02	<10	230	0.48	0.12	0.28	0.04	29.3	8.1	27
X983063		0.81	<0.005	0.07	1.39	5.7	<0.02	<10	140	0.30	0.13	0.19	0.09	18.65	5.1	23
X983066		0.45	0.020	0.04	1.87	10.0	<0.02	<10	170	0.48	0.14	0.16	0.07	20.6	8.6	30
X983067		0.53	0.010	0.04	1.59	9.4	<0.02	<10	250	0.45	0.18	0.21	0.06	29.6	7.1	30
X983068		0.69	0.007	0.07	1.60	9.2	<0.02	<10	250	0.52	0.13	0.29	0.03	33.8	8.4	32
X983070		0.64	<0.005	0.08	2.06	11.2	<0.02	<10	180	0.47	0.17	0.18	0.09	29.6	9.0	34
X983071		0.54	0.007	0.04	1.73	10.6	<0.02	<10	230	0.51	0.14	0.22	0.05	29.0	8.1	33
X983072		0.71	0.006	0.07	2.02	7.4	<0.02	<10	180	0.36	0.16	0.30	0.07	29.2	8.5	23
X983087		0.61	0.007	0.06	1.16	7.1	<0.02	<10	270	0.41	0.11	0.46	0.09	25.3	6.8	23
X983094		0.49	<0.005	0.07	0.90	7.0	<0.02	<10	200	0.31	0.09	0.54	0.17	25.1	7.0	21
X983095		0.58	<0.005	0.04	0.89	4.8	<0.02	<10	200	0.28	0.08	0.39	0.06	25.6	5.2	18
X983096		0.79	0.007	0.10	1.34	8.6	<0.02	<10	370	0.48	0.14	0.55	0.09	30.6	7.5	26
X983073		0.74	0.005	0.02	1.69	4.3	<0.02	<10	340	0.46	0.10	0.41	0.02	120.5	7.4	20



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CERTIFICATE OF ANALYSIS WH19318889

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm 0.05	ppm 0.2	% 0.01	ppm 0.05	ppm 0.05	ppm 0.02	ppm 0.01	ppm 0.005	% 0.01	ppm 0.2	ppm 0.1	% 0.01	ppm 5	ppm 0.05
X983001		0.90	20.5	2.28	4.79	0.05	0.04	0.03	0.020	0.04	13.4	10.8	0.42	276	1.00
X983002		0.91	16.9	2.17	4.80	0.05	0.04	0.03	0.019	0.04	13.9	11.1	0.42	199	0.84
X983003		0.86	19.1	2.15	5.24	<0.05	0.02	0.03	0.022	0.05	9.7	10.3	0.36	274	0.96
X983004		0.74	15.8	2.16	4.45	0.05	0.04	0.02	0.019	0.04	9.8	10.6	0.41	229	0.85
X983005		0.60	14.0	1.62	3.82	<0.05	<0.02	0.02	0.015	0.04	7.6	6.8	0.24	159	0.60
X983006		0.64	23.6	2.07	4.50	0.06	0.03	0.03	0.018	0.04	13.8	10.2	0.40	259	0.70
X983007		0.77	25.0	2.05	4.22	<0.05	0.02	0.02	0.017	0.04	11.3	9.6	0.36	700	0.79
X983008		0.81	18.4	2.32	4.79	0.06	0.04	0.02	0.020	0.04	13.0	10.9	0.44	332	0.75
X983009		0.83	16.7	2.27	5.47	0.05	0.07	0.02	0.025	0.04	13.1	11.4	0.43	290	0.79
X983010		1.11	17.6	2.38	5.45	<0.05	0.05	0.02	0.023	0.06	10.2	12.0	0.38	217	0.82
X983011		0.73	15.9	2.17	4.56	0.06	0.06	0.03	0.021	0.03	13.7	10.6	0.44	307	0.66
X983012		2.06	32.6	2.88	8.66	0.07	0.03	0.02	0.028	0.08	14.2	23.0	0.71	428	0.91
X983013		0.74	30.4	2.11	4.37	0.05	0.05	0.04	0.020	0.05	11.8	11.6	0.46	332	0.56
X983014		0.55	21.3	1.90	3.54	<0.05	0.05	0.04	0.016	0.04	12.4	8.8	0.40	288	0.46
X983017		0.61	27.5	1.87	4.13	<0.05	0.04	0.06	0.018	0.03	13.5	9.6	0.39	158	0.33
X983019		0.74	27.3	1.91	3.68	0.06	0.02	0.03	0.015	0.05	11.1	9.2	0.42	693	0.64
X983052		0.49	26.8	2.00	3.58	0.07	0.05	0.04	0.018	0.07	15.6	9.3	0.40	299	1.02
X983055		0.47	19.5	1.88	3.52	0.06	0.04	0.06	0.016	0.04	12.6	9.4	0.41	208	0.76
X983056		0.46	24.2	1.89	3.35	0.05	0.04	0.04	0.016	0.04	11.3	7.6	0.36	494	0.76
X983099		0.42	19.7	1.21	2.67	<0.05	0.02	0.04	0.014	0.04	10.3	6.2	0.27	511	0.27
X983111		0.78	23.9	2.58	4.28	<0.05	0.07	0.03	0.019	0.06	8.9	13.9	0.43	385	0.78
X983115		0.70	25.1	2.02	4.06	<0.05	0.06	0.02	0.015	0.05	7.0	9.8	0.35	166	0.64
X983134		0.59	14.6	1.80	3.99	<0.05	0.02	0.01	0.014	0.05	7.6	8.9	0.28	212	0.57
X983137		1.14	18.1	2.32	6.80	0.08	0.03	0.01	0.016	0.54	26.2	35.3	0.62	332	0.29
X983139		0.64	25.9	2.36	4.78	0.07	0.08	0.04	0.020	0.05	19.7	10.9	0.45	277	0.56
X983142		0.80	23.4	2.26	5.35	<0.05	0.06	0.01	0.019	0.06	9.3	11.4	0.38	292	0.72
X983058		0.86	20.4	2.41	4.89	0.06	0.05	0.04	0.020	0.05	14.1	9.1	0.45	299	0.71
X983059		0.70	20.1	2.22	4.30	0.06	0.05	0.03	0.019	0.04	14.9	8.1	0.44	314	0.48
X983063		0.77	14.8	1.99	4.74	<0.05	<0.02	0.03	0.019	0.04	9.9	7.6	0.33	212	0.68
X983066		0.89	21.7	2.43	4.60	<0.05	0.07	0.02	0.023	0.05	10.0	11.8	0.46	237	0.75
X983067		0.89	19.6	2.33	4.92	0.06	0.05	0.03	0.021	0.05	15.0	10.7	0.42	218	0.82
X983068		0.89	21.0	2.39	5.62	0.08	0.09	0.03	0.021	0.04	16.9	10.9	0.46	294	1.00
X983070		1.18	15.3	2.72	6.26	0.05	0.06	0.02	0.026	0.06	13.7	13.9	0.49	277	1.18
X983071		0.99	18.7	2.62	5.93	0.06	0.07	0.02	0.024	0.05	14.8	10.6	0.46	304	1.03
X983072		1.04	13.6	2.43	8.20	0.07	0.03	0.01	0.023	0.06	34.8	14.9	0.43	257	0.89
X983087		0.55	17.8	1.93	3.90	0.05	0.03	0.01	0.017	0.04	13.0	8.3	0.37	277	0.52
X983094		0.54	24.4	1.97	3.35	0.06	0.09	0.03	0.019	0.07	13.0	7.1	0.38	182	0.58
X983095		0.48	16.6	1.47	3.20	0.06	0.03	0.03	0.010	0.05	13.2	7.5	0.34	208	0.44
X983096		0.69	26.4	2.06	4.70	0.08	0.06	0.04	0.022	0.06	17.6	11.5	0.44	261	0.60
X983073		1.06	15.9	2.50	7.87	0.17	0.08	0.01	0.020	0.43	75.3	23.8	0.65	370	0.35



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm 0.05	ppm 0.2	ppm 10	ppm 0.2	ppm 0.1	ppm 0.001	% 0.01	ppm 0.05	ppm 0.1	ppm 0.2	ppm 0.2	ppm 0.2	ppm 0.01	ppm 0.01
X983001		1.11	16.1	310	9.0	7.0	<0.001	<0.01	0.53	4.2	0.2	0.5	15.5	<0.01	0.02
X983002		1.08	13.5	350	8.3	6.9	<0.001	<0.01	0.42	4.3	0.3	0.5	16.5	<0.01	0.03
X983003		1.05	13.5	730	8.7	7.9	<0.001	<0.01	0.40	2.7	<0.2	0.5	16.7	<0.01	0.02
X983004		1.04	15.3	500	7.5	6.3	<0.001	<0.01	0.48	3.2	0.2	0.4	16.7	<0.01	0.02
X983005		0.42	9.5	390	5.4	5.0	<0.001	<0.01	0.28	1.4	<0.2	0.3	15.1	<0.01	0.02
X983006		0.88	21.2	310	7.2	5.3	<0.001	<0.01	0.57	4.1	<0.2	0.4	20.2	<0.01	0.02
X983007		0.76	16.6	500	6.6	5.6	<0.001	<0.01	0.45	3.4	0.2	0.4	25.2	<0.01	0.02
X983008		0.97	17.1	500	7.4	6.8	<0.001	<0.01	0.40	4.0	<0.2	0.5	21.4	<0.01	0.03
X983009		0.86	18.1	270	8.3	5.7	<0.001	<0.01	0.43	4.8	<0.2	0.6	25.1	<0.01	0.02
X983010		1.15	14.5	390	8.2	11.0	<0.001	<0.01	0.50	3.3	<0.2	0.6	16.3	<0.01	0.01
X983011		0.67	17.0	340	7.6	6.1	<0.001	<0.01	0.47	4.6	0.3	0.5	23.3	<0.01	0.02
X983012		1.81	27.2	400	9.9	15.8	<0.001	<0.01	0.47	5.3	0.2	0.8	39.5	<0.01	0.02
X983013		1.02	23.0	700	7.1	6.6	<0.001	0.01	0.57	3.8	0.3	0.4	41.7	<0.01	0.02
X983014		0.84	18.7	730	5.8	5.5	0.001	<0.01	0.48	3.7	<0.2	0.3	29.3	<0.01	0.02
X983017		0.90	19.1	760	6.7	4.7	<0.001	0.02	0.53	3.9	0.5	0.4	40.4	<0.01	0.02
X983019		0.70	22.4	770	5.0	6.1	<0.001	0.02	0.52	2.8	<0.2	0.3	52.7	<0.01	0.02
X983052		0.80	22.0	660	6.3	6.2	<0.001	0.01	0.60	4.0	1.3	0.3	39.4	<0.01	0.03
X983055		0.96	17.1	610	6.8	5.1	<0.001	0.02	0.57	3.4	1.1	0.3	50.8	<0.01	0.01
X983056		0.80	19.2	710	5.6	5.0	<0.001	0.02	0.52	3.4	0.9	0.3	48.2	<0.01	0.02
X983099		0.60	14.5	750	4.6	5.3	<0.001	0.01	0.45	2.5	0.5	0.2	32.3	<0.01	0.01
X983111		1.04	20.7	740	6.7	8.2	<0.001	<0.01	0.48	3.2	0.2	0.4	18.7	<0.01	0.03
X983115		0.97	17.1	290	5.9	6.7	<0.001	<0.01	0.47	2.6	<0.2	0.4	13.1	<0.01	0.02
X983134		0.81	10.6	580	6.3	8.5	<0.001	<0.01	0.36	2.2	<0.2	0.4	18.0	<0.01	0.02
X983137		1.34	8.0	900	4.1	46.7	<0.001	<0.01	0.19	3.0	<0.2	0.7	40.2	<0.01	0.01
X983139		0.67	17.8	400	7.5	6.5	<0.001	<0.01	0.52	5.7	<0.2	0.5	28.8	<0.01	0.04
X983142		0.90	15.9	820	7.6	11.4	<0.001	<0.01	0.47	3.1	<0.2	0.5	21.8	<0.01	0.02
X983058		0.87	16.4	710	7.6	6.2	<0.001	<0.01	0.43	4.8	<0.2	0.4	25.5	<0.01	0.02
X983059		0.69	16.3	470	6.8	4.6	<0.001	<0.01	0.41	5.2	<0.2	0.4	27.9	<0.01	0.02
X983063		0.54	10.9	1020	7.4	6.3	<0.001	<0.01	0.26	2.4	<0.2	0.4	18.4	<0.01	0.02
X983066		1.06	19.0	340	8.0	7.3	<0.001	<0.01	0.51	3.7	0.2	0.4	18.8	0.01	0.03
X983067		1.01	16.9	360	8.5	6.8	<0.001	<0.01	0.45	5.0	0.2	0.5	23.1	<0.01	0.02
X983068		0.93	17.4	320	9.1	6.7	<0.001	0.01	0.62	6.0	0.4	0.6	30.1	<0.01	0.02
X983070		1.15	18.0	390	9.5	10.6	<0.001	0.01	0.57	4.5	0.3	0.7	21.6	<0.01	0.02
X983071		0.85	16.1	560	8.8	7.7	<0.001	0.01	0.50	5.3	0.3	0.6	26.2	<0.01	0.03
X983072		1.14	11.1	540	10.4	10.4	<0.001	0.01	0.40	3.3	0.2	0.6	77.3	<0.01	0.02
X983087		0.93	15.7	640	5.6	5.7	<0.001	0.01	0.37	3.6	<0.2	0.4	30.8	<0.01	0.02
X983094		0.74	16.6	740	5.4	6.8	0.001	0.01	0.52	4.2	<0.2	0.3	35.0	<0.01	0.01
X983095		0.88	14.2	620	4.1	5.4	0.001	0.01	0.35	2.9	<0.2	0.3	26.2	<0.01	<0.01
X983096		1.16	22.5	530	8.3	7.9	0.001	0.01	0.55	4.9	0.5	0.5	36.6	<0.01	0.03
X983073		0.59	11.7	1020	5.4	34.2	<0.001	0.01	0.28	5.1	0.2	0.7	39.3	<0.01	0.01



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Sample Description	Method Analyte Units LOD	ME-MS41 Ti %	ME-MS41 Ti ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
X983001		0.058	0.11	1.35	51	0.26	4.58	46	1.9
X983002		0.060	0.10	1.07	50	0.24	6.66	42	1.4
X983003		0.049	0.09	0.62	50	0.24	2.88	38	0.7
X983004		0.059	0.09	0.69	49	0.19	3.26	38	1.7
X983005		0.039	0.06	0.48	41	0.13	2.52	28	<0.5
X983006		0.071	0.07	0.89	48	0.15	8.09	42	1.5
X983007		0.046	0.10	0.87	46	0.15	5.02	40	0.5
X983008		0.056	0.10	1.08	53	0.21	6.26	49	1.2
X983009		0.055	0.10	0.89	56	0.19	5.18	40	3.0
X983010		0.069	0.12	0.53	56	0.31	2.93	53	2.2
X983011		0.058	0.09	1.16	50	0.20	6.25	40	2.8
X983012		0.083	0.18	0.74	59	0.20	4.86	53	1.4
X983013		0.053	0.09	1.08	44	0.13	7.82	44	1.7
X983014		0.045	0.07	0.76	39	0.15	7.82	43	1.4
X983017		0.039	0.08	1.82	45	0.11	9.44	40	1.4
X983019		0.040	0.08	0.76	38	0.59	7.56	37	0.8
X983052		0.047	0.06	2.71	41	0.12	9.08	41	1.7
X983055		0.047	0.06	2.46	42	0.21	6.38	36	1.4
X983056		0.044	0.06	2.08	41	0.08	6.72	42	1.4
X983099		0.031	0.05	0.96	31	0.10	6.46	42	0.7
X983111		0.063	0.08	0.54	56	0.12	3.42	45	2.4
X983115		0.056	0.09	0.36	45	0.12	2.41	37	2.5
X983134		0.049	0.06	0.35	42	0.15	2.47	37	1.0
X983137		0.190	0.31	0.86	40	<0.05	5.92	92	1.3
X983139		0.074	0.09	1.02	53	0.14	11.15	43	3.7
X983142		0.060	0.10	0.50	52	0.17	2.74	53	2.9
X983058		0.062	0.11	0.91	55	0.16	7.86	41	1.4
X983059		0.058	0.08	0.91	53	0.11	8.89	38	1.5
X983063		0.046	0.09	0.89	49	0.16	3.59	40	<0.5
X983066		0.071	0.10	0.93	55	0.18	3.34	41	3.2
X983067		0.063	0.10	0.95	54	0.18	7.65	41	1.9
X983068		0.080	0.10	1.18	58	0.18	9.33	42	3.0
X983070		0.084	0.14	0.89	63	0.24	5.25	53	3.2
X983071		0.078	0.10	1.07	63	0.19	6.92	43	2.9
X983072		0.092	0.11	0.92	50	0.18	3.89	72	1.3
X983087		0.058	0.07	0.91	43	0.18	7.47	36	1.1
X983094		0.065	0.08	0.59	46	0.08	7.93	43	4.1
X983095		0.058	0.08	0.52	32	0.09	4.91	31	1.5
X983096		0.065	0.09	0.79	46	0.16	10.80	41	2.5
X983073		0.174	0.25	1.29	48	<0.05	10.25	92	3.9



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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.02	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
X983074		0.53	<0.005	0.07	1.93	8.5	0.04	<10	230	0.44	0.14	0.22	0.05	25.9	8.2	32
X983075		0.53	0.006	0.09	1.81	8.6	<0.02	<10	190	0.37	0.18	0.22	0.06	26.0	6.0	30
X983076		0.55	0.007	0.04	1.72	9.0	<0.02	<10	240	0.49	0.14	0.23	0.04	30.7	7.8	31
X983077		0.53	<0.005	0.03	2.18	10.6	<0.02	<10	200	0.50	0.17	0.18	0.07	24.9	9.2	34
X983078		0.49	0.008	0.03	1.84	10.1	<0.02	<10	220	0.51	0.14	0.22	0.04	30.0	8.6	33
X983079		0.65	<0.005	0.02	1.67	9.9	<0.02	<10	160	0.30	0.10	0.23	0.07	15.60	8.0	27
X983080		0.47	0.007	0.07	1.77	9.7	<0.02	<10	260	0.52	0.13	0.25	0.04	31.9	7.8	34
X983081		0.38	0.005	0.03	1.89	10.6	<0.02	<10	240	0.36	0.13	0.20	0.13	16.50	8.5	28
X983082		0.55	<0.005	0.03	1.79	9.0	<0.02	<10	230	0.41	0.11	0.24	0.07	16.60	8.7	29
X983083		0.59	0.005	0.03	1.41	6.4	<0.02	<10	180	0.25	0.10	0.22	0.07	14.60	6.5	22
X983084		0.65	<0.005	0.07	1.81	10.3	<0.02	<10	200	0.39	0.13	0.18	0.10	21.8	8.0	28
X983101		0.73	<0.005	0.02	1.30	7.2	<0.02	<10	130	0.27	0.13	0.25	0.06	22.5	7.0	23
X983102		0.62	0.008	0.05	1.66	8.9	<0.02	<10	180	0.41	0.16	0.24	0.06	29.0	6.0	29
X983103		0.93	<0.005	0.02	1.34	7.9	<0.02	<10	200	0.44	0.11	0.32	0.05	31.8	7.5	28
X983104		0.80	<0.005	0.06	1.67	8.8	<0.02	<10	130	0.37	0.12	0.15	0.07	18.30	8.1	25
X983105		0.93	0.005	0.06	1.42	7.5	<0.02	<10	200	0.41	0.12	0.34	0.05	35.9	6.6	28
X983106		0.93	0.006	0.04	1.83	9.7	<0.02	<10	140	0.34	0.15	0.21	0.05	23.5	6.4	31
X983107		1.00	0.006	0.02	1.50	8.5	<0.02	<10	230	0.50	0.11	0.28	0.07	34.4	8.8	27
X983108		0.77	0.005	0.02	1.43	8.8	<0.02	<10	260	0.48	0.11	0.33	0.07	37.5	8.0	27
X983119		0.80	0.005	0.02	1.55	7.5	<0.02	<10	160	0.31	0.12	0.15	0.04	18.00	6.7	25
X983120		0.97	0.009	0.08	1.31	6.4	0.10	<10	260	0.43	0.11	0.40	0.03	49.5	7.0	26
X983121		1.05	<0.005	0.04	1.22	3.6	<0.02	<10	240	0.30	0.09	0.38	0.05	57.6	6.1	10
X983122		0.84	<0.005	0.04	1.67	7.3	<0.02	<10	330	0.44	0.17	0.34	0.04	34.1	6.9	26
X983123		0.82	0.008	0.01	1.40	6.7	<0.02	<10	180	0.40	0.09	0.32	0.05	27.6	7.0	23
X983124		0.60	<0.005	0.07	1.55	7.8	<0.02	<10	240	0.35	0.13	0.23	0.03	22.2	6.2	27
X983125		0.69	<0.005	0.05	1.88	10.0	<0.02	<10	250	0.44	0.16	0.18	0.07	19.90	8.4	30
X983126		0.62	0.005	0.04	1.81	12.7	<0.02	<10	210	0.38	0.14	0.24	0.08	18.45	7.4	29
X983127		0.73	<0.005	0.08	1.49	7.4	<0.02	<10	350	0.33	0.11	0.25	0.09	16.25	7.0	25
X983128		0.80	<0.005	0.07	1.45	9.9	<0.02	<10	210	0.33	0.11	0.18	0.08	16.10	5.8	20
Y647252		0.49	<0.005	0.01	1.36	6.0	<0.02	<10	220	0.47	0.09	0.27	0.07	40.8	6.4	23
Y647258		0.40	0.006	0.09	1.34	4.8	<0.02	<10	270	0.38	0.10	0.35	0.04	28.5	6.4	21
Y647259		0.50	0.008	0.04	1.75	8.2	<0.02	<10	270	0.41	0.14	0.28	0.09	26.4	8.6	28
Y647266		0.50	<0.005	0.02	1.64	12.6	<0.02	<10	150	0.31	0.16	0.21	0.12	21.3	13.9	29
Y647268		0.50	0.006	0.04	1.77	10.0	<0.02	<10	230	0.53	0.12	0.30	0.06	33.6	9.9	32
Y647271		0.41	0.005	0.03	1.68	9.4	<0.02	<10	290	0.53	0.12	0.26	0.05	29.4	9.2	31
Y647289		0.69	0.007	0.01	1.29	6.2	<0.02	<10	180	0.46	0.08	0.33	0.10	57.3	8.0	25
Y647296		0.54	0.005	0.05	1.42	7.4	<0.02	<10	130	0.29	0.13	0.21	0.06	18.20	5.0	22
Y647298		0.73	0.012	0.02	1.38	8.0	<0.02	<10	280	0.50	0.08	0.36	0.04	36.6	8.3	29
Y647328		0.91	0.007	0.05	1.09	6.6	<0.02	<10	220	0.43	0.09	0.37	0.06	29.3	6.4	22
Y647330		0.55	0.007	0.02	1.33	5.8	<0.02	<10	180	0.37	0.12	0.30	0.05	29.9	6.5	20



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CERTIFICATE OF ANALYSIS WH19318889

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm 0.05	ppm 0.2	% 0.01	ppm 0.05	ppm 0.05	ppm 0.02	ppm 0.01	ppm 0.005	% 0.01	ppm 0.2	ppm 0.1	% 0.01	ppm 5	ppm 0.05
X983074		1.02	20.4	2.52	5.68	0.05	0.07	0.01	0.022	0.05	13.2	10.7	0.45	276	0.79
X983075		1.10	15.2	2.38	6.19	0.05	0.03	0.02	0.021	0.05	13.5	12.0	0.41	198	1.01
X983076		0.89	18.3	2.39	5.52	0.06	0.10	0.02	0.022	0.05	15.7	11.0	0.46	276	0.64
X983077		1.22	18.6	2.75	6.37	0.05	0.09	0.01	0.028	0.08	12.9	12.8	0.49	236	1.05
X983078		0.96	23.3	2.58	5.89	0.06	0.13	0.03	0.023	0.05	15.2	10.3	0.46	264	0.86
X983079		0.72	16.7	2.55	4.90	<0.05	0.11	0.01	0.020	0.05	8.6	15.7	0.40	232	0.82
X983080		0.85	18.8	2.54	5.43	0.06	0.14	0.03	0.023	0.05	15.2	10.1	0.46	305	0.84
X983081		1.01	18.6	2.46	5.48	<0.05	0.13	0.02	0.022	0.06	9.0	12.5	0.41	220	0.83
X983082		0.74	20.5	2.48	5.03	<0.05	0.11	0.01	0.019	0.05	8.7	9.4	0.43	232	0.72
X983083		0.67	18.9	1.94	4.46	0.05	0.05	<0.01	0.016	0.05	7.6	9.1	0.35	181	0.62
X983084		0.86	17.3	2.38	5.72	<0.05	0.07	0.02	0.022	0.05	11.5	11.6	0.40	208	0.96
X983101		0.96	12.1	2.21	5.69	<0.05	<0.02	0.01	0.020	0.09	12.7	11.9	0.39	275	0.65
X983102		1.14	17.5	2.37	6.07	0.06	<0.02	0.03	0.022	0.06	14.7	9.9	0.38	213	0.99
X983103		0.79	17.6	2.32	4.58	0.07	0.04	0.01	0.020	0.06	16.9	9.6	0.44	387	0.62
X983104		0.85	20.4	2.26	5.01	<0.05	0.03	0.02	0.022	0.06	8.9	10.6	0.39	222	0.78
X983105		0.92	19.5	2.27	5.11	0.09	0.02	0.02	0.019	0.08	19.1	12.4	0.44	289	0.51
X983106		1.05	19.5	2.57	5.89	0.05	0.02	0.07	0.023	0.06	12.2	10.1	0.45	209	0.86
X983107		0.97	19.3	2.40	5.15	0.07	0.05	0.03	0.020	0.08	16.9	12.8	0.47	378	0.63
X983108		0.87	24.4	2.41	4.67	0.06	0.06	0.02	0.019	0.08	20.4	12.3	0.46	397	0.61
X983119		0.77	17.2	2.19	5.04	0.05	0.03	0.01	0.023	0.04	9.3	12.6	0.39	206	0.74
X983120		0.74	23.4	2.08	4.78	0.07	0.06	0.05	0.018	0.05	19.9	11.6	0.42	258	0.52
X983121		1.17	14.8	1.73	5.71	0.10	<0.02	0.01	0.012	0.18	35.3	27.0	0.36	339	0.41
X983122		1.01	17.4	2.21	6.75	0.06	<0.02	0.01	0.020	0.09	18.5	21.5	0.38	189	0.62
X983123		1.18	16.3	2.25	5.48	0.06	0.04	0.01	0.017	0.18	14.3	16.1	0.44	311	0.51
X983124		0.92	17.9	2.07	5.13	<0.05	0.06	0.01	0.018	0.04	11.6	11.2	0.40	188	0.79
X983125		0.96	16.9	2.54	5.81	<0.05	0.12	<0.01	0.025	0.06	10.3	12.5	0.47	252	1.11
X983126		0.77	23.9	2.39	5.57	<0.05	0.07	0.01	0.023	0.08	9.5	13.0	0.45	187	0.82
X983127		0.68	19.6	2.05	4.55	<0.05	0.03	0.01	0.019	0.05	8.8	10.1	0.37	316	0.62
X983128		0.78	16.9	2.04	4.62	<0.05	0.04	0.01	0.018	0.06	8.6	13.4	0.33	208	0.67
Y647252		1.10	17.0	2.07	4.44	0.06	0.06	0.02	0.020	0.10	21.2	15.4	0.41	390	0.38
Y647258		0.77	20.2	1.66	4.04	<0.05	<0.02	0.04	0.017	0.05	15.1	15.1	0.31	208	0.45
Y647259		0.94	17.0	2.34	5.31	<0.05	0.02	0.03	0.022	0.06	13.5	11.4	0.43	338	0.65
Y647266		0.76	19.9	3.10	6.36	<0.05	0.03	0.01	0.026	0.06	10.8	11.1	0.47	721	1.25
Y647268		0.87	22.8	2.51	4.93	<0.05	0.04	0.03	0.023	0.06	16.5	12.1	0.51	355	0.63
Y647271		0.73	17.4	2.45	4.80	<0.05	0.10	0.02	0.022	0.06	15.7	11.2	0.48	297	0.51
Y647289		1.14	17.7	2.19	4.38	0.07	0.03	0.01	0.018	0.13	36.5	14.3	0.50	392	0.44
Y647296		0.72	14.2	2.01	4.64	<0.05	<0.02	0.03	0.017	0.05	9.6	9.9	0.33	166	0.59
Y647298		0.70	19.7	2.38	4.17	0.07	0.05	0.02	0.020	0.06	18.6	8.6	0.46	371	0.45
Y647328		0.62	22.1	1.67	3.27	0.05	0.08	0.02	0.014	0.08	15.1	8.9	0.38	224	0.58
Y647330		0.85	13.4	1.99	4.87	0.05	0.05	0.01	0.019	0.13	22.1	14.8	0.42	200	0.53



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm 0.05	ppm 0.2	ppm 10	ppm 0.2	ppm 0.1	ppm 0.001	% 0.01	ppm 0.05	ppm 0.1	ppm 0.2	ppm 0.2	ppm 0.2	ppm 0.01	ppm 0.01
X983074		1.02	16.5	250	8.4	8.1	<0.001	0.01	0.48	4.1	0.2	0.6	26.1	<0.01	0.03
X983075		1.44	13.3	480	9.3	9.8	0.001	0.01	0.43	3.8	0.3	0.6	21.5	<0.01	0.02
X983076		0.76	16.5	280	7.7	6.6	<0.001	0.01	0.49	5.0	0.3	0.6	25.2	<0.01	0.02
X983077		1.01	20.1	330	8.8	14.7	<0.001	0.01	0.62	4.4	0.2	0.7	21.7	<0.01	0.03
X983078		0.83	17.8	290	8.2	7.1	<0.001	0.01	0.56	4.9	<0.2	0.6	28.5	<0.01	0.02
X983079		0.75	16.3	700	6.1	7.2	<0.001	0.01	0.39	3.1	0.4	0.4	23.2	<0.01	0.02
X983080		0.56	15.9	240	8.1	6.1	<0.001	0.01	0.49	6.2	0.3	0.5	26.6	<0.01	0.02
X983081		0.79	18.4	640	7.8	10.6	<0.001	0.01	0.45	3.0	<0.2	0.5	24.6	<0.01	0.02
X983082		0.66	20.1	380	6.9	6.3	<0.001	0.01	0.51	3.5	<0.2	0.4	25.2	<0.01	0.02
X983083		0.88	15.3	470	5.3	7.1	<0.001	0.01	0.39	2.6	0.2	0.4	21.6	<0.01	0.02
X983084		1.08	15.8	340	8.2	8.4	<0.001	0.01	0.48	3.8	0.3	0.6	21.3	<0.01	0.02
X983101		1.18	13.8	590	7.0	13.4	<0.001	0.01	0.40	3.0	0.2	0.5	26.7	<0.01	0.03
X983102		1.27	13.0	600	9.1	9.5	<0.001	0.01	0.41	4.1	0.4	0.6	24.1	<0.01	0.02
X983103		0.69	17.1	510	6.8	8.4	<0.001	0.01	0.49	4.9	0.3	0.4	31.1	<0.01	0.02
X983104		0.99	16.7	380	7.0	9.6	<0.001	0.01	0.47	3.3	<0.2	0.5	17.9	<0.01	0.02
X983105		0.89	16.1	680	7.4	9.2	<0.001	0.01	0.46	5.0	0.3	0.5	31.8	<0.01	0.01
X983106		1.22	14.1	670	8.5	7.6	<0.001	0.01	0.41	3.8	0.5	0.6	21.3	<0.01	0.02
X983107		0.84	17.7	410	7.0	10.7	<0.001	0.01	0.47	5.9	<0.2	0.5	30.0	<0.01	0.02
X983108		0.68	19.9	570	6.8	9.0	<0.001	0.01	0.51	5.7	<0.2	0.4	33.1	<0.01	0.03
X983119		1.07	14.0	300	7.3	6.1	<0.001	0.01	0.41	2.5	0.2	0.5	18.0	<0.01	0.02
X983120		0.74	14.1	700	6.4	6.3	<0.001	0.01	0.40	5.2	<0.2	0.4	37.1	<0.01	0.01
X983121		1.26	6.2	910	4.9	22.0	0.001	0.01	0.17	2.2	<0.2	0.5	46.7	<0.01	0.01
X983122		1.16	14.2	620	9.7	14.0	<0.001	0.02	0.37	3.1	0.2	0.7	46.4	<0.01	0.03
X983123		1.42	13.9	690	6.8	20.7	<0.001	0.01	0.36	3.6	<0.2	0.6	33.4	<0.01	0.01
X983124		0.97	14.8	260	7.5	7.4	<0.001	0.01	0.51	3.2	0.6	0.6	24.1	<0.01	0.01
X983125		0.84	18.0	340	8.8	9.9	<0.001	0.01	0.60	3.5	0.3	0.6	20.0	<0.01	0.02
X983126		1.25	21.8	430	7.5	13.6	<0.001	0.01	0.57	3.6	<0.2	0.6	27.1	<0.01	0.02
X983127		0.85	16.3	390	6.0	9.4	<0.001	0.01	0.33	2.8	0.2	0.4	24.5	<0.01	0.01
X983128		0.85	15.5	420	5.9	10.8	<0.001	<0.01	0.39	2.5	0.2	0.5	18.1	<0.01	0.01
Y647252		0.81	15.1	490	8.0	11.8	<0.001	0.01	0.32	4.8	0.2	0.5	25.9	<0.01	0.01
Y647258		0.40	12.1	810	5.2	5.9	<0.001	0.04	0.29	1.6	0.4	0.3	29.8	<0.01	0.01
Y647259		1.01	15.9	750	7.1	8.0	<0.001	0.01	0.32	3.7	0.4	0.5	23.0	<0.01	0.02
Y647266		0.94	18.6	1030	10.1	9.3	<0.001	0.01	0.46	3.5	0.3	0.5	18.0	<0.01	0.03
Y647268		0.68	21.1	520	6.8	6.0	<0.001	0.01	0.47	5.1	0.5	0.4	27.2	<0.01	0.02
Y647271		0.64	19.3	480	7.0	6.1	<0.001	0.01	0.46	4.5	0.2	0.5	26.4	<0.01	0.02
Y647289		0.69	18.2	850	5.0	17.3	<0.001	0.01	0.36	3.3	0.3	0.3	26.6	<0.01	0.02
Y647296		0.56	11.0	570	6.4	5.4	<0.001	0.01	0.31	1.6	0.3	0.4	20.7	<0.01	0.02
Y647298		0.53	19.1	670	5.4	5.2	<0.001	0.01	0.38	6.5	0.2	0.4	36.3	<0.01	0.02
Y647328		0.65	21.8	410	4.0	7.4	0.001	0.01	0.46	3.5	0.4	0.3	24.7	<0.01	0.02
Y647330		0.74	13.0	620	5.5	14.1	<0.001	<0.01	0.28	2.9	0.3	0.4	29.6	<0.01	0.02



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Sample Description	Method Analyte Units LOD	ME-MS41 Ti %	ME-MS41 Ti ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
X983074		0.080	0.12	0.88	60	0.21	4.06	45	3.7
X983075		0.075	0.13	0.86	59	0.24	4.28	40	0.9
X983076		0.076	0.10	1.04	57	0.17	6.46	45	4.4
X983077		0.089	0.14	0.62	64	0.18	3.71	53	4.2
X983078		0.081	0.11	0.94	62	0.15	5.31	40	5.9
X983079		0.063	0.08	0.46	62	0.11	2.86	37	4.2
X983080		0.083	0.10	1.18	62	0.14	7.99	40	5.8
X983081		0.074	0.10	0.43	59	0.16	2.30	42	5.2
X983082		0.068	0.10	0.60	60	0.10	3.05	42	4.1
X983083		0.061	0.07	0.37	48	0.09	2.55	32	2.2
X983084		0.076	0.11	0.59	57	0.14	3.62	39	2.7
X983101		0.077	0.11	0.57	55	0.22	3.48	45	0.6
X983102		0.074	0.14	1.13	57	0.20	6.27	41	<0.5
X983103		0.080	0.11	1.01	56	0.11	8.11	43	2.1
X983104		0.070	0.10	0.61	53	0.13	2.75	39	1.7
X983105		0.076	0.12	1.10	52	0.12	9.16	47	0.8
X983106		0.076	0.13	0.78	62	0.23	4.15	39	0.7
X983107		0.081	0.12	0.95	54	0.17	10.05	50	2.6
X983108		0.073	0.11	1.61	55	0.11	10.05	50	2.3
X983119		0.065	0.09	0.50	52	0.17	2.40	36	1.0
X983120		0.078	0.09	1.53	49	0.11	10.85	40	3.3
X983121		0.095	0.19	1.56	37	0.09	8.69	55	0.6
X983122		0.068	0.13	2.31	55	0.16	5.75	43	<0.5
X983123		0.106	0.16	0.75	50	0.08	5.18	65	1.6
X983124		0.072	0.12	0.54	51	0.19	3.43	36	2.7
X983125		0.073	0.11	0.51	57	0.21	2.59	51	4.5
X983126		0.079	0.11	0.45	58	0.10	2.79	45	3.3
X983127		0.061	0.08	0.38	52	0.15	2.65	39	1.3
X983128		0.052	0.09	0.36	44	0.15	2.40	44	1.6
Y647252		0.071	0.11	1.25	43	0.26	11.10	53	2.5
Y647258		0.035	0.10	1.66	36	0.14	6.53	39	<0.5
Y647259		0.065	0.10	0.88	56	0.18	5.51	46	0.5
Y647266		0.074	0.09	0.59	71	0.26	3.21	53	1.1
Y647268		0.077	0.10	0.94	58	0.17	6.38	47	2.0
Y647271		0.070	0.08	0.94	57	0.16	5.36	43	4.2
Y647289		0.079	0.17	1.06	51	0.15	5.59	52	1.6
Y647296		0.048	0.09	0.58	48	0.20	2.83	34	<0.5
Y647298		0.074	0.09	0.80	57	0.52	10.65	42	2.0
Y647328		0.055	0.09	0.95	34	0.12	7.56	42	3.3
Y647330		0.072	0.10	1.18	42	0.16	4.79	53	2.2



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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.02	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
Y647333		1.03	<0.005	0.01	1.58	7.9	<0.02	<10	270	0.49	0.11	0.27	0.05	39.0	7.6	27
Y647734		0.60	0.006	0.05	1.48	10.3	<0.02	<10	130	0.31	0.16	0.19	0.08	24.9	6.5	28
Y647736		0.78	0.006	0.03	1.60	8.5	<0.02	<10	570	0.51	0.14	0.30	0.02	43.5	6.9	30
Y647739		0.78	0.005	0.02	2.04	9.2	<0.02	<10	190	0.42	0.12	0.20	0.05	21.9	8.9	31
Y647272		0.75	0.005	0.07	1.84	9.3	<0.02	<10	190	0.45	0.14	0.23	0.06	39.1	8.4	28
Y647273		0.73	0.005	0.03	1.93	8.0	<0.02	<10	190	0.47	0.10	0.29	0.06	35.2	10.1	29
Y647274		0.66	0.005	0.10	1.91	10.0	<0.02	<10	220	0.54	0.17	0.24	0.04	45.2	8.0	31
Y647275		0.66	0.018	0.04	1.87	4.7	<0.02	<10	200	0.51	1.27	0.42	0.12	101.0	10.2	24
Y647276		0.92	0.005	0.03	1.74	7.1	<0.02	<10	160	0.43	0.13	0.33	0.06	61.1	8.4	26
Y647277		0.72	<0.005	0.02	1.73	3.9	<0.02	<10	300	0.50	0.10	0.52	0.06	95.3	9.2	23
Y647278		0.61	<0.005	0.01	0.20	0.1	<0.02	<10	20	<0.05	0.01	0.11	<0.01	3.52	1.4	2
Y647279		0.67	<0.005	0.03	0.36	0.6	<0.02	<10	60	0.06	0.03	0.11	0.02	8.59	2.7	5
Y647280		0.65	0.005	0.06	1.19	5.7	<0.02	<10	170	0.31	0.09	0.23	0.10	32.3	5.4	18
Y647281		0.53	<0.005	0.09	0.40	0.9	<0.02	<10	110	0.13	0.03	0.11	0.03	12.80	2.3	5
Y647282		0.69	<0.005	0.05	0.95	4.7	<0.02	<10	100	0.24	0.07	0.18	0.05	18.20	4.8	15
Y647283		0.88	0.005	0.03	1.87	7.8	<0.02	<10	130	0.46	0.10	0.22	0.08	33.0	8.8	26
Y647284		0.88	0.007	0.04	1.00	5.5	<0.02	<10	110	0.30	0.08	0.17	0.02	29.0	4.3	16
Y647285		0.49	<0.005	0.04	0.39	0.5	<0.02	<10	70	0.10	0.04	0.11	0.04	4.97	1.6	4
Y647286		0.52	<0.005	0.09	1.24	6.5	<0.02	<10	200	0.31	0.15	0.24	0.10	21.8	6.0	21
Y647301		0.97	0.010	0.02	1.46	7.2	<0.02	<10	190	0.38	0.10	0.26	0.05	34.1	7.3	26
Y647302		1.03	0.006	0.01	1.53	9.0	<0.02	<10	250	0.50	0.10	0.33	0.04	33.6	9.1	31
Y647303		0.92	0.039	0.06	1.89	8.9	<0.02	<10	160	0.48	0.15	0.17	0.08	27.2	9.0	32
Y647304		0.85	0.013	0.06	1.88	8.7	<0.02	<10	190	0.46	0.14	0.15	0.08	21.2	9.0	27
Y647305		0.92	0.011	0.02	2.09	10.0	<0.02	<10	160	0.50	0.16	0.13	0.14	21.0	10.7	31
Y647306		0.79	<0.005	0.05	1.82	10.4	<0.02	<10	110	0.37	0.18	0.13	0.14	20.1	9.9	30
Y647307		1.09	<0.005	0.03	1.44	9.5	<0.02	<10	250	0.53	0.13	0.27	0.04	34.7	9.6	28
Y647308		0.97	0.007	0.01	1.31	8.8	<0.02	<10	200	0.53	0.11	0.27	0.08	34.0	9.0	27
Y647312		0.90	0.006	0.08	1.49	7.3	<0.02	<10	140	0.37	0.14	0.15	0.12	18.10	6.8	23
Y647313		1.15	0.007	0.07	1.62	8.6	<0.02	<10	150	0.45	0.13	0.18	0.06	20.3	9.2	27
Y647319		0.80	0.010	0.04	1.50	8.4	<0.02	<10	170	0.42	0.12	0.16	0.06	28.3	8.1	29
Y647351		1.00	<0.005	0.05	1.96	7.0	<0.02	<10	140	0.43	0.13	0.19	0.11	41.0	9.1	22
Y647358		0.87	0.005	0.02	1.51	8.0	<0.02	<10	180	0.52	0.11	0.14	0.08	47.0	8.6	25
Y647363		0.84	0.005	0.06	1.69	8.2	<0.02	<10	140	0.41	0.14	0.19	0.10	17.90	9.0	28
Y647364		0.70	<0.005	0.07	1.81	9.5	<0.02	<10	200	0.58	0.14	0.17	0.05	28.0	8.4	35
Y647380		0.80	<0.005	0.03	1.50	2.0	<0.02	<10	260	0.31	0.08	0.26	0.05	46.7	6.9	12
Y647403		0.58	0.006	0.07	1.58	9.0	<0.02	<10	150	0.38	0.13	0.17	0.06	19.40	7.9	27
Y647431		0.39	0.005	0.09	1.20	6.2	<0.02	<10	110	0.33	0.12	0.11	0.05	18.45	4.7	21
Y647435		0.57	0.005	0.06	1.43	8.6	<0.02	<10	170	0.41	0.11	0.33	0.07	34.4	9.8	25
Y647501		0.96	0.005	0.04	1.07	5.7	<0.02	<10	90	0.25	0.10	0.19	0.07	14.55	5.2	18
Y647508		0.68	<0.005	0.08	1.15	4.9	<0.02	<10	150	0.30	0.16	0.17	0.05	20.4	4.0	20



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
Y647333		0.74	16.8	2.28	5.01	0.05	0.10	0.01	0.022	0.09	21.2	14.2	0.45	210	0.55
Y647734		1.13	10.6	2.88	6.69	<0.05	0.02	0.01	0.019	0.06	14.3	11.1	0.37	308	1.03
Y647736		0.85	19.0	2.39	4.93	0.06	0.06	0.03	0.024	0.05	25.7	12.8	0.46	255	0.67
Y647739		1.07	16.2	2.59	5.62	<0.05	0.11	0.01	0.023	0.06	11.6	15.5	0.52	257	0.68
Y647272		1.24	15.0	2.56	5.80	0.05	0.02	0.03	0.023	0.08	23.0	16.1	0.47	338	0.82
Y647273		1.30	17.7	2.64	5.37	0.05	0.03	0.03	0.022	0.13	19.4	17.6	0.57	414	0.47
Y647274		1.27	17.4	2.63	5.75	0.05	0.02	0.04	0.023	0.08	24.5	17.0	0.49	297	0.95
Y647275		3.15	65.2	2.53	7.51	0.09	0.02	0.03	0.018	0.50	57.5	44.6	0.85	575	0.37
Y647276		2.03	15.6	2.56	6.46	0.07	0.02	0.02	0.019	0.25	41.1	27.1	0.64	403	0.61
Y647277		3.31	12.9	2.58	7.44	0.11	0.03	0.01	0.017	0.57	65.6	39.4	0.86	518	0.28
Y647278		0.06	2.4	0.61	1.26	<0.05	<0.02	<0.01	<0.005	0.02	1.8	0.3	0.03	31	<0.05
Y647279		0.20	7.4	1.21	2.51	<0.05	<0.02	0.01	<0.005	0.03	5.1	0.9	0.05	57	0.09
Y647280		1.02	24.2	1.92	4.41	0.05	<0.02	0.01	0.016	0.07	19.4	10.6	0.33	216	0.53
Y647281		0.28	7.3	1.00	2.30	<0.05	<0.02	0.02	0.005	0.04	7.5	1.4	0.06	62	0.14
Y647282		0.70	10.9	1.81	3.60	<0.05	<0.02	0.02	0.012	0.07	10.3	9.1	0.26	152	0.40
Y647283		1.40	15.7	2.43	5.20	0.05	0.03	0.02	0.020	0.09	19.1	18.5	0.49	285	0.52
Y647284		0.69	12.1	1.59	3.56	<0.05	<0.02	0.04	0.014	0.05	12.9	6.7	0.23	136	0.47
Y647285		0.27	9.7	0.61	2.00	<0.05	<0.02	0.01	<0.005	0.04	2.5	1.1	0.04	48	0.15
Y647286		0.88	11.8	2.07	4.57	<0.05	<0.02	0.04	0.017	0.09	12.1	12.7	0.38	265	0.55
Y647301		1.49	16.3	2.20	4.64	0.05	0.04	0.04	0.020	0.07	16.8	11.3	0.42	307	0.51
Y647302		0.85	19.4	2.50	4.70	0.07	0.06	0.03	0.024	0.06	17.0	10.4	0.49	366	0.56
Y647303		1.11	22.3	2.52	5.55	<0.05	0.03	0.03	0.025	0.06	13.9	12.4	0.46	312	0.73
Y647304		1.09	19.7	2.47	5.96	<0.05	0.02	0.02	0.024	0.07	11.2	17.6	0.42	440	0.85
Y647305		1.52	23.4	2.62	6.32	<0.05	0.05	0.01	0.026	0.11	9.7	21.1	0.52	288	1.03
Y647306		1.17	21.2	2.72	6.19	<0.05	0.03	0.02	0.024	0.06	10.4	14.2	0.42	346	1.01
Y647307		0.86	21.3	2.39	4.70	0.05	0.07	0.03	0.021	0.06	16.3	11.7	0.47	348	0.55
Y647308		0.75	22.9	2.33	4.28	<0.05	0.05	0.02	0.021	0.06	17.4	8.8	0.45	414	0.62
Y647312		0.95	13.7	2.07	4.98	<0.05	0.03	0.02	0.019	0.07	9.0	12.3	0.33	242	0.89
Y647313		0.86	19.9	2.24	4.58	<0.05	0.03	0.03	0.020	0.05	9.7	9.7	0.43	265	0.66
Y647319		0.84	16.5	2.24	4.47	<0.05	0.06	0.02	0.021	0.05	13.5	11.1	0.45	235	0.76
Y647351		1.79	14.7	2.48	6.91	0.05	0.02	0.02	0.021	0.15	23.4	28.1	0.46	378	0.63
Y647358		1.41	18.0	2.35	5.81	0.07	0.13	0.02	0.022	0.14	23.7	26.4	0.45	358	0.53
Y647363		0.94	17.6	2.36	5.39	<0.05	0.03	0.04	0.024	0.04	9.5	10.9	0.41	228	0.75
Y647364		0.86	19.9	2.50	5.32	<0.05	0.15	0.02	0.023	0.04	14.1	11.2	0.46	239	0.75
Y647380		1.10	12.0	2.14	7.17	0.06	0.06	0.01	0.015	0.42	31.0	27.9	0.54	305	0.38
Y647403		0.87	19.0	2.31	4.85	<0.05	0.02	0.03	0.020	0.05	9.2	11.1	0.41	227	0.77
Y647431		0.86	13.7	1.70	4.15	<0.05	<0.02	0.03	0.014	0.04	9.8	7.6	0.27	181	0.87
Y647435		0.81	18.0	2.38	4.70	0.06	<0.02	0.12	0.020	0.07	17.7	9.5	0.46	555	0.63
Y647501		0.75	11.7	1.72	3.84	<0.05	<0.02	0.02	0.015	0.04	7.4	6.8	0.27	143	0.60
Y647508		0.79	25.5	1.63	5.20	<0.05	<0.02	0.02	0.015	0.04	11.1	6.3	0.22	108	0.62



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm 0.05	ppm 0.2	ppm 10	ppm 0.2	ppm 0.1	ppm 0.001	% 0.01	ppm 0.05	ppm 0.1	ppm 0.2	ppm 0.2	ppm 0.2	ppm 0.01	ppm 0.01
Y647333		0.64	18.0	450	6.2	11.3	<0.001	0.01	0.42	3.8	0.2	0.5	36.6	<0.01	0.02
Y647734		1.19	11.0	1230	8.5	14.4	<0.001	0.01	0.34	2.9	<0.2	0.6	17.0	<0.01	0.03
Y647736		0.68	15.9	520	7.2	6.4	<0.001	0.01	0.42	5.9	0.3	0.5	30.7	<0.01	0.03
Y647739		0.88	17.2	430	6.5	10.7	<0.001	0.01	0.37	3.4	0.2	0.5	21.8	<0.01	0.02
Y647272		1.13	15.8	700	7.8	12.8	<0.001	0.01	0.37	3.9	0.2	0.5	21.7	<0.01	0.02
Y647273		0.94	20.1	700	6.5	15.6	<0.001	0.01	0.35	3.6	0.3	0.4	27.8	<0.01	0.02
Y647274		1.32	16.8	710	8.2	12.5	<0.001	0.01	0.44	4.0	0.3	0.5	21.2	<0.01	0.03
Y647275		1.16	19.9	1720	4.9	53.1	<0.001	0.01	0.25	2.7	0.2	0.4	26.9	<0.01	0.03
Y647276		1.18	16.7	1060	6.0	32.1	<0.001	0.01	0.29	3.1	<0.2	0.4	26.8	<0.01	0.02
Y647277		0.92	18.2	1710	5.1	64.7	<0.001	0.01	0.22	3.1	0.2	0.4	42.1	<0.01	0.01
Y647278		<0.05	0.9	350	<0.2	0.7	<0.001	0.01	<0.05	0.1	<0.2	<0.2	14.7	<0.01	0.01
Y647279		0.10	2.3	400	0.7	2.4	<0.001	0.01	0.06	0.4	<0.2	<0.2	12.9	<0.01	<0.01
Y647280		0.67	12.4	680	4.9	9.4	<0.001	0.02	0.28	2.1	0.3	0.4	22.5	<0.01	0.02
Y647281		0.07	2.9	480	1.2	2.5	<0.001	0.02	0.07	0.3	<0.2	<0.2	13.2	<0.01	0.01
Y647282		0.57	9.9	620	3.6	7.2	<0.001	0.01	0.23	1.8	0.2	0.2	17.5	<0.01	0.02
Y647283		1.23	17.9	630	6.3	13.4	<0.001	0.02	0.32	3.2	0.3	0.4	21.4	<0.01	0.02
Y647284		0.50	9.1	490	4.4	7.8	<0.001	0.01	0.25	1.9	0.4	0.3	18.1	<0.01	0.02
Y647285		0.15	1.8	360	0.9	1.7	<0.001	0.01	0.07	0.2	<0.2	<0.2	16.5	<0.01	0.01
Y647286		0.96	13.9	460	6.6	13.5	<0.001	0.01	0.36	2.1	0.2	0.4	28.2	<0.01	0.03
Y647301		0.77	15.8	340	6.0	10.2	<0.001	0.01	0.38	5.0	0.3	0.5	28.0	<0.01	0.03
Y647302		0.61	18.4	540	6.4	6.4	<0.001	0.01	0.40	6.6	0.2	0.4	35.1	<0.01	0.03
Y647303		1.22	18.5	460	7.9	10.5	<0.001	0.01	0.45	4.3	0.3	0.6	17.6	<0.01	0.02
Y647304		1.31	15.9	360	7.2	12.0	<0.001	0.01	0.41	3.1	0.4	0.6	16.9	<0.01	0.03
Y647305		1.15	24.7	280	9.5	16.9	<0.001	0.01	0.56	4.4	0.2	0.6	16.1	<0.01	0.03
Y647306		1.29	18.0	450	9.4	10.0	<0.001	0.01	0.46	3.6	0.5	0.6	14.5	0.01	0.02
Y647307		0.61	20.4	440	7.1	6.4	<0.001	<0.01	0.45	6.5	0.3	0.4	27.9	<0.01	0.03
Y647308		0.58	19.7	550	7.0	6.5	<0.001	<0.01	0.48	5.0	<0.2	0.4	28.0	<0.01	0.03
Y647312		1.14	13.5	390	7.5	10.9	<0.001	<0.01	0.41	2.6	<0.2	0.5	16.5	<0.01	0.02
Y647313		0.83	17.6	470	7.1	6.8	<0.001	<0.01	0.40	3.8	0.5	0.4	20.0	<0.01	0.02
Y647319		0.72	16.6	240	6.8	6.2	<0.001	<0.01	0.43	4.5	0.2	0.5	20.5	<0.01	0.02
Y647351		0.94	14.2	1070	7.6	21.9	<0.001	<0.01	0.30	3.1	0.2	0.5	23.0	<0.01	0.02
Y647358		0.80	17.3	160	8.8	20.6	<0.001	<0.01	0.40	6.9	0.3	0.7	20.7	<0.01	0.01
Y647363		0.94	15.6	570	7.4	7.3	<0.001	<0.01	0.31	3.4	0.2	0.5	19.6	<0.01	0.02
Y647364		0.56	19.5	130	8.0	6.2	<0.001	<0.01	0.48	5.0	0.3	0.5	21.8	<0.01	0.02
Y647380		0.96	8.4	1180	4.3	43.6	<0.001	<0.01	0.18	2.7	0.3	0.7	27.5	<0.01	0.02
Y647403		0.98	15.8	370	7.2	6.4	<0.001	0.01	0.39	2.9	0.4	0.4	20.1	<0.01	0.03
Y647431		0.78	9.8	460	6.1	7.0	<0.001	0.01	0.34	2.3	0.3	0.4	11.7	<0.01	0.02
Y647435		0.54	20.2	950	6.7	10.2	<0.001	0.01	0.42	2.8	0.3	0.4	29.6	<0.01	0.02
Y647501		0.51	10.0	500	5.3	5.7	<0.001	0.01	0.24	1.5	0.2	0.3	16.2	<0.01	0.03
Y647508		0.46	8.2	630	8.1	7.5	<0.001	<0.01	0.23	1.5	0.4	0.5	20.2	<0.01	0.02



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Sample Description	Method Analyte Units LOD	ME-MS41 Ti %	ME-MS41 Ti ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
Y647333		0.073	0.10	0.82	50	0.16	5.10	55	4.1
Y647734		0.078	0.11	0.53	69	0.32	3.08	45	0.6
Y647736		0.068	0.09	2.64	54	0.21	12.05	42	2.6
Y647739		0.086	0.12	0.63	60	0.21	3.01	46	4.4
Y647272		0.074	0.15	0.99	59	0.20	5.79	50	0.7
Y647273		0.092	0.19	0.76	59	0.17	4.02	58	1.2
Y647274		0.075	0.16	1.21	59	0.40	5.84	52	0.6
Y647275		0.131	0.41	1.76	53	0.11	3.31	80	0.8
Y647276		0.104	0.28	1.48	60	0.20	4.36	59	0.7
Y647277		0.140	0.49	1.82	54	0.13	5.03	88	1.1
Y647278		0.026	<0.02	0.11	22	<0.05	0.57	8	<0.5
Y647279		0.058	0.03	0.21	45	<0.05	1.19	17	<0.5
Y647280		0.061	0.11	0.82	47	0.17	4.02	37	<0.5
Y647281		0.037	0.04	0.41	34	0.06	1.67	16	<0.5
Y647282		0.062	0.08	0.40	44	0.10	2.42	30	<0.5
Y647283		0.078	0.17	0.77	54	0.17	3.74	49	1.2
Y647284		0.047	0.08	0.87	40	0.13	5.62	26	<0.5
Y647285		0.027	0.02	0.16	20	<0.05	0.66	10	<0.5
Y647286		0.061	0.10	0.52	47	0.23	2.52	41	0.5
Y647301		0.076	0.12	0.90	52	0.16	8.38	45	1.6
Y647302		0.079	0.10	0.96	60	0.16	11.60	44	2.1
Y647303		0.082	0.13	1.29	59	0.27	4.83	48	0.9
Y647304		0.072	0.12	0.64	56	0.25	3.20	48	0.8
Y647305		0.084	0.17	0.75	57	0.21	3.28	58	2.0
Y647306		0.072	0.10	0.65	63	0.25	3.26	43	1.3
Y647307		0.066	0.11	1.04	53	0.16	11.90	44	2.5
Y647308		0.064	0.10	0.99	53	0.18	6.52	44	1.9
Y647312		0.065	0.12	0.50	47	0.35	2.53	42	1.2
Y647313		0.065	0.10	0.87	51	0.20	3.71	40	1.3
Y647319		0.069	0.11	1.04	50	0.19	7.21	38	2.7
Y647351		0.063	0.15	1.76	48	0.19	6.64	62	0.9
Y647358		0.098	0.23	2.04	50	0.14	12.55	60	5.1
Y647363		0.064	0.11	0.82	55	0.23	3.17	41	1.0
Y647364		0.081	0.11	0.84	60	0.18	6.40	42	6.1
Y647380		0.161	0.27	0.76	37	0.08	4.68	93	2.9
Y647403		0.065	0.09	0.63	53	0.20	2.96	36	1.0
Y647431		0.053	0.11	0.82	41	0.22	2.93	30	<0.5
Y647435		0.061	0.12	0.71	54	0.15	5.61	47	0.6
Y647501		0.045	0.09	0.46	41	0.14	2.75	32	<0.5
Y647508		0.045	0.10	0.89	43	0.24	3.19	23	<0.5



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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.02	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
Y647510		0.51	<0.005	0.03	0.69	3.8	<0.02	<10	60	0.13	0.06	0.09	0.05	7.33	3.6	11
Y647516		0.89	<0.005	0.02	1.66	9.4	<0.02	<10	170	0.43	0.11	0.19	0.03	21.8	9.7	30
Y647517		0.87	<0.005	0.01	1.77	5.1	<0.02	<10	300	0.44	0.11	0.33	0.08	45.4	7.8	16
Y647522		1.16	<0.005	0.03	1.47	8.9	<0.02	<10	240	0.50	0.12	0.27	0.03	32.1	8.5	28
Y647526		0.93	<0.005	0.15	1.34	7.5	<0.02	<10	170	0.33	0.14	0.19	0.08	17.60	7.1	24
Y647540		0.85	0.007	0.02	1.59	9.5	<0.02	<10	210	0.49	0.12	0.21	0.06	25.8	9.7	29
Y647601		0.79	0.007	0.01	1.48	7.2	<0.02	<10	270	0.54	0.12	0.30	0.05	53.0	9.6	26
Y647618		0.68	0.012	0.03	1.36	8.2	<0.02	<10	230	0.51	0.14	0.28	0.04	30.0	8.3	28
Y647621		0.66	<0.005	0.13	1.86	10.6	<0.02	<10	180	0.47	0.13	0.20	0.05	18.00	8.4	30
Y647625		0.76	<0.005	0.03	1.84	6.9	<0.02	<10	200	0.44	0.10	0.21	0.08	43.5	8.1	21
Y647626		0.56	0.005	0.04	1.88	11.1	<0.02	<10	150	0.47	0.17	0.16	0.11	22.1	10.0	34
Y647417		0.60	0.005	0.10	1.24	6.9	<0.02	<10	150	0.44	0.13	0.28	0.06	37.0	7.2	24
Y647418		0.33	0.007	0.06	1.24	6.5	<0.02	<10	150	0.38	0.11	0.23	0.08	29.9	7.8	25
Y647419		0.65	0.022	0.04	1.13	6.0	<0.02	<10	170	0.34	0.09	0.21	0.10	27.3	8.0	20
Y647420		0.55	<0.005	0.07	1.68	10.1	<0.02	<10	390	0.47	0.17	0.25	0.05	44.1	7.2	31
Y647421		0.61	0.007	0.05	1.60	7.7	<0.02	<10	200	0.45	0.12	0.26	0.07	35.4	9.7	27
Y647422		0.68	0.005	0.02	1.34	5.7	<0.02	<10	220	0.41	0.10	0.34	0.17	57.1	8.5	27
Y647423		0.64	0.010	0.06	1.47	8.3	<0.02	<10	160	0.39	0.15	0.23	0.07	29.6	10.2	31
Y647424		0.75	0.005	0.02	1.52	7.8	<0.02	<10	280	0.55	0.11	0.33	0.08	58.3	9.5	27
Y647425		0.69	0.007	0.03	1.40	7.0	<0.02	<10	250	0.50	0.10	0.33	0.03	38.8	8.1	26
Y647426		0.56	<0.005	0.02	1.25	6.0	<0.02	<10	110	0.30	0.09	0.22	0.06	21.7	7.9	23
Y647427		0.50	0.005	0.07	0.70	2.8	<0.02	<10	60	0.14	0.13	0.09	0.05	14.05	2.4	11
Y647468		0.99	0.005	0.02	1.42	7.5	<0.02	<10	310	0.43	0.10	0.32	0.04	30.4	7.5	29
Y647469		0.87	<0.005	0.10	1.14	5.1	<0.02	<10	150	0.28	0.11	0.19	0.05	15.30	4.6	20
Y647470		0.82	0.005	0.06	1.60	8.5	<0.02	<10	200	0.45	0.16	0.21	0.06	25.4	7.6	30
Y647471		0.65	<0.005	0.07	1.72	9.5	<0.02	<10	270	0.52	0.16	0.19	0.06	22.7	8.0	31
Y647472		0.79	0.008	0.06	1.50	7.1	<0.02	<10	150	0.31	0.11	0.21	0.08	15.25	8.2	24
Y647473		0.71	0.006	0.07	1.76	9.5	<0.02	<10	290	0.55	0.17	0.17	0.07	28.1	8.2	34
Y647606		0.84	0.005	0.01	1.48	8.0	<0.02	<10	190	0.55	0.12	0.25	0.06	46.9	8.6	30
Y647607		0.81	<0.005	0.07	0.45	1.6	<0.02	<10	60	0.09	0.06	0.13	0.04	9.96	2.9	9
Y647608		0.89	0.005	0.02	1.01	4.2	<0.02	<10	190	0.32	0.07	0.32	0.03	28.3	5.5	22
Y647609		0.70	0.013	0.17	1.21	5.6	<0.02	<10	210	0.47	0.12	0.20	0.12	25.8	6.5	20
Y647610		0.83	0.015	0.01	1.58	7.2	<0.02	<10	250	0.51	0.12	0.25	0.09	42.9	8.9	27
Y647611		0.86	0.005	0.01	1.47	9.2	<0.02	<10	320	0.57	0.12	0.35	0.07	44.9	8.7	29
Y647612		0.80	0.005	0.03	1.39	8.1	<0.02	<10	200	0.55	0.11	0.26	0.04	37.1	8.4	30
Y647613		0.72	<0.005	0.07	1.29	6.4	<0.02	<10	180	0.33	0.14	0.18	0.08	18.30	9.3	21
Y647614		0.94	<0.005	0.04	1.66	9.6	<0.02	<10	180	0.46	0.13	0.24	0.06	25.4	9.4	29
Y647636		0.63	<0.005	0.03	1.49	9.3	<0.02	<10	290	0.52	0.11	0.26	0.06	32.1	9.7	30
Y647637		0.61	0.011	0.03	1.45	9.0	<0.02	<10	220	0.54	0.11	0.24	0.06	31.3	9.0	28
Y647638		0.61	0.009	0.02	1.48	8.9	<0.02	<10	240	0.48	0.11	0.26	0.03	33.7	8.6	31



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm 0.05	ppm 0.2	% 0.01	ppm 0.05	ppm 0.05	ppm 0.02	ppm 0.01	ppm 0.005	% 0.01	ppm 0.2	ppm 0.1	% 0.01	ppm 5	ppm 0.05
Y647510		0.40	8.4	1.30	3.04	<0.05	<0.02	0.01	0.009	0.04	3.5	5.4	0.13	124	0.41
Y647516		0.89	17.9	2.38	4.71	<0.05	0.07	0.04	0.022	0.05	11.4	10.0	0.46	280	0.68
Y647517		0.93	12.4	2.11	6.35	<0.05	0.02	0.01	0.018	0.12	23.4	17.6	0.47	378	0.48
Y647522		0.85	18.9	2.29	4.70	0.05	0.05	0.03	0.021	0.05	16.3	10.1	0.44	304	0.62
Y647526		0.80	14.0	2.42	5.40	<0.05	<0.02	0.02	0.019	0.04	9.0	9.5	0.33	199	0.77
Y647540		0.85	25.0	2.45	4.80	<0.05	0.04	0.03	0.021	0.05	12.2	9.9	0.45	282	0.76
Y647601		1.44	19.8	2.35	5.26	0.06	0.06	0.03	0.020	0.15	28.1	16.9	0.55	469	0.55
Y647618		0.72	20.0	2.29	4.50	0.05	0.07	0.04	0.021	0.05	15.3	10.2	0.43	293	0.55
Y647621		0.89	22.8	2.43	5.02	<0.05	0.08	0.03	0.022	0.06	9.2	11.5	0.46	225	0.75
Y647625		1.58	14.9	2.30	6.82	0.07	0.04	0.01	0.021	0.27	25.0	29.2	0.48	330	0.58
Y647626		1.12	18.2	2.64	5.90	<0.05	0.05	0.02	0.026	0.06	11.2	14.4	0.50	274	1.14
Y647417		1.22	16.0	2.12	4.59	0.06	0.06	0.02	0.018	0.10	21.3	13.7	0.47	282	0.59
Y647418		0.91	16.3	1.97	4.15	<0.05	0.02	0.02	0.017	0.08	15.8	11.1	0.39	321	0.76
Y647419		0.88	13.6	1.93	4.10	<0.05	0.02	0.02	0.015	0.09	14.6	10.1	0.36	306	0.59
Y647420		1.14	21.7	2.46	5.45	0.05	0.05	0.04	0.025	0.06	25.2	11.7	0.46	264	0.89
Y647421		1.13	16.8	2.49	5.33	<0.05	0.03	0.02	0.020	0.10	16.8	13.6	0.53	343	0.66
Y647422		1.14	18.2	2.11	4.73	0.07	0.07	0.01	0.017	0.14	28.0	11.7	0.48	359	0.51
Y647423		1.14	16.5	2.31	4.95	0.05	0.03	0.04	0.019	0.05	15.2	10.0	0.45	442	1.04
Y647424		1.19	17.4	2.48	5.53	0.07	0.04	0.02	0.018	0.14	27.9	13.4	0.56	413	0.57
Y647425		0.90	17.1	2.25	4.86	0.06	0.06	0.03	0.023	0.08	21.0	12.1	0.51	279	0.53
Y647426		0.84	14.3	2.08	4.21	<0.05	0.02	0.01	0.017	0.07	11.7	10.0	0.39	284	0.59
Y647427		0.87	8.7	1.21	4.83	<0.05	0.02	0.03	0.009	0.05	7.7	4.1	0.10	74	0.64
Y647468		0.63	23.3	2.23	4.39	<0.05	0.09	0.03	0.018	0.04	16.8	8.8	0.43	235	0.49
Y647469		0.65	14.5	1.61	4.11	<0.05	<0.02	0.03	0.016	0.04	8.2	7.6	0.28	156	0.60
Y647470		0.97	15.2	2.37	5.35	<0.05	0.04	0.03	0.021	0.04	13.0	10.7	0.42	250	0.95
Y647471		0.92	14.7	2.44	5.31	<0.05	0.05	0.02	0.025	0.04	12.2	12.3	0.44	238	0.83
Y647472		0.67	14.7	2.07	4.46	<0.05	0.05	0.02	0.016	0.04	7.9	10.4	0.38	249	0.72
Y647473		0.98	18.7	2.48	5.43	<0.05	0.08	0.02	0.024	0.04	14.4	12.4	0.46	311	0.93
Y647606		0.86	18.9	2.32	4.51	0.06	0.12	0.04	0.020	0.07	27.4	13.1	0.45	397	0.56
Y647607		0.36	6.2	1.11	2.84	<0.05	<0.02	0.01	0.007	0.04	6.8	4.1	0.13	86	0.30
Y647608		0.95	14.7	1.80	3.98	<0.05	0.04	0.02	0.015	0.11	15.7	19.0	0.40	257	0.44
Y647609		0.88	22.1	1.88	4.90	0.05	<0.02	0.01	0.016	0.07	13.6	11.7	0.30	342	0.69
Y647610		1.12	24.0	2.36	5.07	0.05	0.06	0.02	0.019	0.15	17.9	18.7	0.55	395	0.65
Y647611		1.25	30.1	2.48	5.32	0.07	0.12	0.04	0.023	0.17	23.7	20.3	0.49	419	0.61
Y647612		0.77	21.2	2.30	4.57	0.05	0.08	0.03	0.019	0.05	17.3	10.8	0.45	303	0.61
Y647613		0.88	16.0	2.03	5.37	<0.05	0.02	0.02	0.016	0.05	9.2	10.8	0.32	466	0.76
Y647614		0.89	18.6	2.48	4.73	<0.05	0.04	0.03	0.024	0.05	13.6	10.5	0.48	328	0.69
Y647636		0.76	22.0	2.32	4.71	<0.05	0.07	0.02	0.024	0.05	16.9	9.2	0.45	348	0.78
Y647637		0.75	21.2	2.33	4.38	0.05	0.06	0.02	0.022	0.06	14.9	8.9	0.45	353	0.78
Y647638		0.66	22.6	2.35	4.58	0.05	0.07	0.05	0.021	0.05	16.2	9.0	0.46	363	0.62



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm 0.05	ppm 0.2	ppm 10	ppm 0.2	ppm 0.1	ppm 0.001	% 0.01	ppm 0.05	ppm 0.1	ppm 0.2	ppm 0.2	ppm 0.2	ppm 0.01	ppm 0.01
Y647510		0.45	5.4	520	3.1	3.7	<0.001	<0.01	0.19	0.9	<0.2	0.2	11.9	<0.01	0.02
Y647516		0.90	17.6	290	7.0	5.8	<0.001	<0.01	0.44	4.4	0.4	0.4	25.1	<0.01	0.03
Y647517		0.63	10.0	760	8.0	14.0	<0.001	<0.01	0.22	2.5	0.2	0.4	74.0	<0.01	0.01
Y647522		0.85	17.1	450	6.9	5.9	<0.001	<0.01	0.41	5.3	0.2	0.4	26.2	<0.01	0.02
Y647526		0.91	13.0	390	7.1	7.6	<0.001	0.01	0.39	2.8	0.3	0.5	18.5	<0.01	0.02
Y647540		0.86	19.7	390	6.9	7.3	<0.001	0.01	0.41	4.0	0.3	0.4	25.6	<0.01	0.02
Y647601		0.63	21.0	710	6.2	19.6	<0.001	<0.01	0.40	5.0	0.4	0.4	28.1	<0.01	0.02
Y647618		0.55	17.4	330	6.9	5.5	<0.001	<0.01	0.43	5.8	0.2	0.4	30.1	<0.01	0.02
Y647621		1.02	20.3	360	7.5	7.3	<0.001	0.01	0.50	3.6	0.4	0.5	22.8	0.01	0.03
Y647625		1.32	15.1	790	7.0	30.5	<0.001	0.01	0.32	3.5	<0.2	0.7	17.6	<0.01	0.02
Y647626		1.12	19.7	530	9.1	10.2	<0.001	<0.01	0.56	3.9	0.2	0.6	17.4	<0.01	0.03
Y647417		0.79	17.1	640	6.6	14.4	<0.001	0.01	0.35	3.6	0.3	0.4	26.2	<0.01	0.03
Y647418		0.76	17.2	690	5.9	10.2	<0.001	0.01	0.37	2.9	0.3	0.3	21.1	<0.01	0.02
Y647419		0.69	15.8	570	6.0	10.7	<0.001	0.01	0.35	2.7	0.2	0.3	22.9	<0.01	0.02
Y647420		0.92	17.9	740	9.0	9.2	<0.001	0.01	0.42	4.9	0.4	0.5	25.3	<0.01	0.03
Y647421		0.81	18.7	740	7.1	13.2	<0.001	0.01	0.38	3.7	0.2	0.4	24.4	<0.01	0.02
Y647422		0.63	19.2	850	6.5	17.3	<0.001	<0.01	0.38	4.1	<0.2	0.4	30.8	<0.01	0.02
Y647423		0.86	16.4	880	7.7	8.7	<0.001	0.01	0.43	3.9	0.5	0.5	21.7	<0.01	0.02
Y647424		0.60	19.6	750	6.6	15.9	<0.001	0.01	0.40	5.1	<0.2	0.4	33.5	<0.01	0.02
Y647425		0.68	17.1	670	6.1	9.2	<0.001	<0.01	0.34	5.4	0.3	0.4	31.0	<0.01	0.02
Y647426		0.66	15.8	730	5.3	8.2	<0.001	0.01	0.28	2.4	<0.2	0.3	21.2	<0.01	0.01
Y647427		0.89	5.1	330	4.7	8.0	<0.001	0.01	0.22	1.2	<0.2	0.5	11.7	<0.01	0.01
Y647468		0.53	17.6	500	6.2	5.1	<0.001	<0.01	0.38	5.0	<0.2	0.4	30.6	<0.01	0.02
Y647469		0.63	11.0	430	5.4	5.5	<0.001	0.01	0.25	2.1	<0.2	0.3	18.5	<0.01	<0.01
Y647470		0.99	14.7	470	8.2	8.2	<0.001	0.01	0.35	4.3	0.3	0.5	20.1	<0.01	0.02
Y647471		1.07	17.7	310	8.5	7.7	<0.001	<0.01	0.41	3.8	<0.2	0.5	21.4	<0.01	0.02
Y647472		0.91	15.9	750	5.9	6.9	<0.001	<0.01	0.27	2.8	<0.2	0.4	19.6	<0.01	0.03
Y647473		0.94	18.2	200	8.5	8.5	<0.001	<0.01	0.58	5.1	0.2	0.6	19.3	<0.01	0.03
Y647606		0.54	20.5	420	6.7	9.2	<0.001	<0.01	0.43	5.6	0.5	0.4	23.4	<0.01	0.01
Y647607		0.20	5.2	410	2.4	4.9	<0.001	0.01	0.12	0.7	<0.2	0.2	13.8	<0.01	<0.01
Y647608		0.79	11.8	660	4.7	15.8	<0.001	<0.01	0.27	3.5	0.2	0.4	25.7	<0.01	0.01
Y647609		0.81	13.2	710	6.5	16.2	<0.001	0.01	0.38	1.9	0.3	0.4	23.0	<0.01	0.01
Y647610		0.86	21.2	450	6.3	18.5	<0.001	0.01	0.42	5.3	<0.2	0.5	24.3	<0.01	0.02
Y647611		0.56	20.5	570	7.1	19.7	<0.001	0.01	0.52	6.9	<0.2	0.5	35.7	<0.01	0.02
Y647612		0.51	18.5	310	6.2	5.9	<0.001	<0.01	0.43	6.9	0.2	0.4	30.3	<0.01	0.02
Y647613		1.17	11.8	520	7.4	12.3	<0.001	0.01	0.30	2.9	<0.2	0.5	21.9	<0.01	0.01
Y647614		1.02	18.2	570	7.1	6.8	<0.001	0.01	0.43	4.2	0.5	0.4	24.4	<0.01	0.02
Y647636		0.57	21.8	460	6.9	5.4	<0.001	<0.01	0.45	5.2	<0.2	0.4	26.3	<0.01	0.02
Y647637		0.66	20.6	460	7.1	5.9	<0.001	<0.01	0.45	5.0	0.2	0.4	25.7	<0.01	0.02
Y647638		0.60	18.3	420	6.5	5.5	<0.001	<0.01	0.43	6.4	0.3	0.4	28.8	<0.01	0.02



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Sample Description	Method Analyte Units LOD	ME-MS41 Ti %	ME-MS41 Ti ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
Y647510		0.044	0.04	0.19	34	0.11	1.13	20	<0.5
Y647516		0.073	0.10	0.89	55	0.17	4.06	39	3.1
Y647517		0.044	0.12	0.77	39	0.08	3.93	63	0.7
Y647522		0.071	0.09	1.00	52	0.20	8.19	39	2.4
Y647526		0.079	0.08	0.51	66	0.23	2.92	38	0.5
Y647540		0.069	0.13	0.83	57	0.17	4.28	44	1.9
Y647601		0.091	0.21	2.47	50	0.16	9.34	59	2.5
Y647618		0.071	0.09	1.22	53	0.16	9.43	42	2.6
Y647621		0.072	0.10	0.56	56	0.19	3.33	44	3.2
Y647625		0.113	0.26	1.85	47	0.14	7.29	63	1.7
Y647626		0.076	0.12	0.80	58	0.28	3.66	47	1.8
Y647417		0.074	0.17	1.27	49	0.18	5.55	51	2.1
Y647418		0.062	0.10	0.83	45	0.35	4.60	41	0.6
Y647419		0.065	0.10	0.60	45	0.24	4.18	43	0.8
Y647420		0.063	0.15	1.75	55	0.30	11.05	46	1.2
Y647421		0.079	0.14	1.20	53	0.30	5.02	56	1.1
Y647422		0.085	0.17	0.99	46	0.37	7.01	55	3.4
Y647423		0.068	0.14	0.97	52	0.25	6.87	45	0.8
Y647424		0.080	0.19	1.27	54	0.15	8.51	55	1.8
Y647425		0.072	0.11	1.14	51	0.32	10.10	45	2.4
Y647426		0.066	0.11	0.58	49	0.16	3.21	40	0.6
Y647427		0.069	0.09	0.51	37	0.16	1.58	18	0.9
Y647468		0.064	0.07	0.69	53	0.14	7.27	38	4.2
Y647469		0.047	0.07	0.65	40	0.17	3.31	32	<0.5
Y647470		0.066	0.10	1.08	54	0.22	6.16	43	1.5
Y647471		0.067	0.09	0.81	56	0.22	4.30	42	2.3
Y647472		0.062	0.07	0.57	49	0.19	3.23	37	1.5
Y647473		0.075	0.11	0.95	57	0.27	5.59	50	4.0
Y647606		0.074	0.11	1.21	52	0.18	7.53	45	5.8
Y647607		0.045	0.05	0.54	35	0.06	1.74	23	<0.5
Y647608		0.090	0.14	2.65	41	0.15	8.73	44	1.6
Y647609		0.053	0.09	1.17	44	0.23	5.25	41	<0.5
Y647610		0.105	0.18	1.51	51	0.14	7.84	57	2.5
Y647611		0.096	0.20	1.96	54	0.14	12.90	59	6.3
Y647612		0.074	0.11	1.11	55	0.17	13.35	41	4.0
Y647613		0.062	0.11	0.61	49	0.23	4.05	41	0.7
Y647614		0.068	0.10	0.94	55	0.19	4.97	44	1.8
Y647636		0.062	0.10	0.84	55	0.17	7.85	42	2.8
Y647637		0.065	0.10	0.93	52	0.39	7.93	42	2.7
Y647638		0.072	0.09	1.04	56	0.15	10.45	40	2.9



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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.02	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
Y647639		0.72	<0.005	0.02	1.81	9.2	<0.02	<10	210	0.49	0.13	0.26	0.08	39.9	10.7	28
Y647642		0.71	<0.005	0.02	1.31	5.3	<0.02	<10	170	0.36	0.08	0.16	0.05	29.4	7.3	17
Y647643		0.74	0.007	0.01	1.31	6.8	<0.02	<10	140	0.28	0.09	0.22	0.05	16.80	7.7	22
Y647645		0.59	0.005	0.03	1.37	11.8	<0.02	<10	320	0.54	0.18	0.31	0.10	34.0	10.0	30
Y647646		0.68	<0.005	0.05	1.74	11.1	<0.02	<10	250	0.55	0.20	0.17	0.12	28.0	11.1	28
Y647647		0.76	<0.005	0.02	1.43	8.2	<0.02	<10	240	0.46	0.11	0.30	0.03	31.3	9.3	30
Y647649		0.77	0.010	0.04	1.81	8.1	<0.02	<10	190	0.42	0.12	0.20	0.08	21.5	9.5	23
Y647650		0.73	<0.005	0.01	1.12	4.9	<0.02	<10	170	0.42	0.08	0.18	0.05	38.8	6.1	16
Y647651		0.65	<0.005	0.01	2.02	7.8	<0.02	<10	240	0.54	0.11	0.26	0.06	22.6	10.3	27
Y647652		0.64	<0.005	0.04	1.83	7.9	<0.02	<10	170	0.40	0.19	0.18	0.12	18.65	8.3	23
Y647653		0.57	<0.005	0.01	1.52	7.9	<0.02	<10	190	0.50	0.10	0.21	0.04	28.5	8.0	25
Y647654		0.49	0.013	0.04	1.52	8.2	<0.02	<10	190	0.46	0.11	0.22	0.04	26.8	9.0	30
Y647655		0.48	<0.005	0.04	1.52	7.8	<0.02	<10	200	0.35	0.14	0.16	0.07	14.55	6.3	23
Y647656		0.61	<0.005	0.04	1.96	9.0	<0.02	<10	180	0.52	0.12	0.17	0.06	21.0	8.4	29
Y647657		0.59	0.018	0.01	1.51	7.1	<0.02	<10	220	0.56	0.10	0.27	0.03	45.9	8.1	26
Y647658		0.62	0.008	0.03	1.60	7.3	<0.02	<10	230	0.47	0.10	0.20	0.05	21.7	7.9	28
Y647659		0.53	<0.005	0.05	1.71	8.6	<0.02	<10	210	0.51	0.12	0.18	0.07	16.85	7.9	30
Y647660		0.54	0.013	0.03	1.26	7.1	<0.02	<10	260	0.50	0.10	0.29	0.04	25.6	8.1	30
Y647661		0.67	0.018	0.02	1.37	11.5	<0.02	<10	300	0.56	0.22	0.33	0.04	31.1	8.5	31
Y647662		0.63	0.007	0.03	1.53	8.3	<0.02	<10	240	0.46	0.12	0.25	0.05	24.9	7.6	30
Y647741		0.77	<0.005	0.02	1.41	7.1	<0.02	<10	310	0.48	0.10	0.19	0.04	27.1	6.3	27
Y647742		0.64	<0.005	0.07	1.42	8.4	<0.02	<10	220	0.41	0.13	0.21	0.03	21.2	6.2	29
Y647747		0.89	0.007	0.14	1.34	18.5	<0.02	<10	390	0.55	0.19	0.78	0.19	32.2	10.9	32
Y647750		0.60	<0.005	0.15	1.27	8.7	<0.02	<10	410	0.52	0.13	0.56	0.05	26.0	8.0	27
Y647701		1.00	<0.005	0.02	1.67	5.1	<0.02	<10	270	0.42	0.10	0.20	0.05	63.2	6.6	18
Y647708		0.81	<0.005	0.08	1.90	9.6	<0.02	<10	150	0.48	0.14	0.13	0.13	18.05	8.4	32
Y647709		0.65	0.013	0.05	2.01	10.7	<0.02	<10	120	0.47	0.13	0.10	0.13	17.15	13.5	29
Y647711		0.92	0.009	0.02	1.47	8.2	<0.02	<10	220	0.53	0.12	0.22	0.04	34.6	8.3	27
Y647713		0.70	<0.005	0.05	1.74	8.4	<0.02	<10	150	0.37	0.13	0.18	0.05	20.2	6.6	27
Y647714		0.91	0.005	0.05	1.63	9.7	<0.02	<10	300	0.57	0.16	0.24	0.04	32.4	8.4	32
Y647715		0.77	<0.005	0.10	1.47	9.0	<0.02	<10	190	0.48	0.15	0.20	0.05	32.0	6.0	30
Y647716		0.76	0.009	0.04	1.35	7.7	<0.02	<10	270	0.46	0.09	0.28	0.06	24.7	8.0	27
Y647717		0.62	<0.005	0.05	1.35	7.8	<0.02	<10	100	0.30	0.13	0.10	0.10	17.30	5.3	21
Y647719		0.53	0.011	0.20	1.91	9.1	<0.02	<10	170	0.52	0.13	0.14	0.10	20.9	8.2	30
Y647720		0.76	<0.005	0.03	1.60	8.7	<0.02	<10	190	0.45	0.13	0.18	0.06	19.15	8.8	28
Y647722		0.80	0.005	0.08	1.75	8.0	0.02	<10	280	0.52	0.15	0.18	0.06	24.2	6.4	29
Y647723		0.72	<0.005	0.02	1.38	6.4	<0.02	<10	140	0.48	0.14	0.17	0.10	20.1	7.0	20
Y647727		0.75	0.005	0.05	1.09	6.5	<0.02	<10	270	0.42	0.09	0.35	0.03	22.8	5.7	26
Y647729		0.74	0.005	0.06	1.45	7.7	<0.02	<10	270	0.56	0.19	0.26	0.05	28.2	7.9	29



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
Y647639		1.34	19.0	2.55	5.92	0.06	0.07	0.02	0.023	0.19	19.6	20.2	0.58	379	0.69
Y647642		1.33	13.1	1.99	5.17	0.05	0.08	0.01	0.017	0.24	17.4	18.5	0.40	305	0.40
Y647643		0.86	16.0	2.24	4.43	<0.05	0.05	0.01	0.016	0.11	9.4	12.9	0.40	345	0.53
Y647645		0.62	29.5	2.31	4.41	0.06	0.04	0.05	0.020	0.05	17.3	11.7	0.51	345	0.75
Y647646		0.99	32.8	2.29	5.09	<0.05	0.04	0.02	0.024	0.08	13.2	12.6	0.44	352	0.91
Y647647		0.67	19.0	2.30	4.48	0.05	0.05	0.03	0.023	0.05	15.5	9.4	0.47	375	0.53
Y647649		1.27	20.4	2.31	5.52	<0.05	0.05	0.01	0.020	0.22	10.4	19.6	0.51	292	0.61
Y647650		1.25	12.8	1.76	4.65	0.06	0.11	0.02	0.016	0.22	23.9	13.8	0.38	372	0.43
Y647651		1.43	19.1	2.53	6.66	<0.05	0.06	0.01	0.019	0.22	12.0	25.8	0.60	428	0.59
Y647652		1.23	17.0	2.43	6.49	<0.05	0.03	0.01	0.024	0.11	11.0	15.6	0.40	278	0.80
Y647653		0.90	17.8	2.09	4.58	<0.05	0.08	0.02	0.016	0.09	14.6	10.6	0.40	257	0.50
Y647654		0.71	19.0	2.29	4.65	<0.05	0.08	0.02	0.022	0.05	13.5	9.7	0.44	262	0.55
Y647655		0.66	16.1	2.20	5.36	<0.05	0.04	<0.01	0.017	0.08	7.5	10.4	0.34	212	0.74
Y647656		1.13	22.2	2.50	5.43	<0.05	0.08	0.02	0.025	0.13	10.9	14.5	0.50	233	0.66
Y647657		0.86	20.6	2.26	5.34	0.05	0.11	0.01	0.019	0.10	22.9	13.7	0.48	261	0.50
Y647658		0.64	16.2	2.38	4.49	<0.05	0.08	<0.01	0.020	0.06	12.9	10.9	0.44	247	0.82
Y647659		0.71	17.0	2.35	4.59	<0.05	0.05	0.01	0.021	0.05	8.8	12.7	0.45	224	0.71
Y647660		0.46	17.3	2.15	3.85	<0.05	0.08	0.03	0.019	0.04	13.3	9.8	0.43	271	0.49
Y647661		0.64	24.9	2.23	4.25	0.06	0.10	0.03	0.020	0.06	16.7	10.8	0.49	355	0.46
Y647662		0.62	16.8	2.34	4.62	<0.05	0.07	0.01	0.020	0.04	12.6	11.5	0.45	249	0.58
Y647741		0.60	18.7	2.05	4.17	0.05	0.07	0.02	0.018	0.04	15.4	12.0	0.41	210	0.48
Y647742		0.66	13.3	2.24	4.65	<0.05	0.05	<0.01	0.019	0.04	11.1	11.9	0.42	218	0.64
Y647747		0.78	34.2	2.56	4.19	0.06	0.06	0.04	0.024	0.07	17.3	17.2	0.60	347	0.68
Y647750		0.44	21.6	2.18	3.95	0.05	0.04	0.04	0.019	0.04	13.8	11.8	0.44	355	0.39
Y647701		2.35	13.7	2.26	6.78	0.08	0.09	<0.01	0.020	0.39	37.5	41.8	0.51	421	0.35
Y647708		0.86	17.0	2.53	5.35	<0.05	0.08	0.02	0.023	0.05	9.2	14.4	0.45	253	0.86
Y647709		1.10	22.3	2.80	5.99	<0.05	0.05	0.01	0.024	0.08	8.5	19.4	0.39	603	1.09
Y647711		0.93	19.4	2.24	4.59	<0.05	0.04	0.08	0.021	0.07	15.5	14.7	0.45	373	0.57
Y647713		0.74	18.2	2.37	4.98	<0.05	0.04	0.01	0.022	0.05	10.3	13.9	0.41	211	0.73
Y647714		0.91	24.5	2.53	4.95	0.05	0.05	0.03	0.022	0.05	16.3	14.6	0.47	287	0.70
Y647715		0.90	20.5	2.29	5.09	0.05	0.05	0.02	0.019	0.05	16.4	12.3	0.43	221	0.85
Y647716		0.64	17.6	2.21	4.11	<0.05	0.08	0.01	0.019	0.04	12.9	9.8	0.44	256	0.46
Y647717		0.86	15.6	2.22	5.19	<0.05	0.02	<0.01	0.016	0.06	9.2	12.3	0.31	172	0.84
Y647719		0.83	21.4	2.41	4.79	<0.05	0.08	0.03	0.022	0.05	10.7	13.2	0.45	227	0.77
Y647720		0.84	16.7	2.43	4.93	<0.05	0.05	0.01	0.024	0.04	9.9	12.4	0.44	415	0.69
Y647722		0.93	16.4	2.42	5.38	<0.05	0.06	0.01	0.022	0.05	13.6	16.3	0.43	258	0.63
Y647723		0.67	15.2	1.88	4.35	<0.05	0.07	<0.01	0.016	0.07	9.5	14.1	0.35	434	0.48
Y647727		0.51	18.5	1.94	3.70	<0.05	0.06	0.02	0.018	0.04	12.4	9.4	0.39	254	0.44
Y647729		0.71	22.9	2.28	4.86	<0.05	0.04	0.04	0.021	0.04	15.0	12.2	0.41	342	0.77



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm 0.05	ppm 0.2	ppm 10	ppm 0.2	ppm 0.1	ppm 0.001	% 0.01	ppm 0.05	ppm 0.1	ppm 0.2	ppm 0.2	ppm 0.2	ppm 0.01	ppm 0.01
Y647639		1.02	20.7	710	6.5	23.8	<0.001	<0.01	0.44	4.3	0.3	0.6	29.1	<0.01	0.02
Y647642		0.93	12.3	350	6.7	29.0	<0.001	<0.01	0.28	3.7	0.3	0.5	19.3	<0.01	0.01
Y647643		0.92	13.5	660	6.1	13.0	<0.001	<0.01	0.36	2.9	0.3	0.4	21.3	<0.01	0.01
Y647645		0.60	29.5	390	8.3	6.3	<0.001	<0.01	0.67	5.5	<0.2	0.4	25.5	<0.01	0.01
Y647646		1.08	27.2	430	9.2	9.1	<0.001	<0.01	0.61	4.5	0.2	0.5	19.5	<0.01	0.02
Y647647		0.58	18.6	490	6.4	5.2	<0.001	<0.01	0.42	6.4	0.3	0.4	29.3	<0.01	0.03
Y647649		1.23	19.5	700	6.5	23.6	<0.001	0.01	0.35	3.2	0.2	0.5	24.6	<0.01	0.02
Y647650		0.99	11.5	370	9.8	26.5	<0.001	<0.01	0.36	4.3	<0.2	0.7	21.3	<0.01	0.01
Y647651		1.04	20.1	780	6.8	31.8	<0.001	0.01	0.35	4.4	0.2	0.6	28.5	<0.01	0.03
Y647652		1.00	13.6	430	10.6	15.9	<0.001	<0.01	0.37	2.7	0.2	0.6	27.8	<0.01	0.01
Y647653		0.64	16.6	440	9.0	10.1	<0.001	<0.01	0.37	4.2	0.3	0.4	27.2	<0.01	0.01
Y647654		0.59	17.8	430	6.6	6.2	<0.001	<0.01	0.42	4.6	0.2	0.4	24.5	<0.01	0.02
Y647655		0.92	14.5	570	7.8	9.0	<0.001	<0.01	0.40	2.7	0.2	0.4	23.4	<0.01	0.02
Y647656		0.86	19.4	370	7.1	16.8	<0.001	<0.01	0.48	3.8	0.2	0.5	24.4	<0.01	0.02
Y647657		0.55	17.5	540	6.2	11.6	<0.001	<0.01	0.38	4.6	0.3	0.4	34.9	<0.01	0.02
Y647658		0.50	17.3	240	8.8	4.6	<0.001	<0.01	0.54	3.7	0.3	0.4	23.6	<0.01	0.02
Y647659		0.84	17.4	280	6.9	5.1	<0.001	<0.01	0.48	3.1	0.3	0.4	19.6	<0.01	0.02
Y647660		0.41	15.6	330	5.9	3.7	<0.001	<0.01	0.41	5.8	0.3	0.4	25.6	<0.01	0.01
Y647661		0.45	21.4	470	6.7	5.0	<0.001	<0.01	0.58	6.3	0.2	0.4	27.2	<0.01	0.02
Y647662		0.72	17.0	370	6.7	4.8	<0.001	<0.01	0.45	4.0	0.3	0.4	22.3	<0.01	0.03
Y647741		0.59	15.1	270	6.3	5.0	<0.001	<0.01	0.48	3.6	0.4	0.4	19.1	<0.01	0.02
Y647742		0.67	12.9	320	7.3	4.8	<0.001	<0.01	0.41	3.7	0.2	0.5	19.5	<0.01	0.03
Y647747		0.82	33.0	780	8.5	8.1	<0.001	<0.01	1.13	4.4	0.2	0.4	37.3	<0.01	0.02
Y647750		0.72	20.3	670	6.5	4.3	<0.001	<0.01	0.53	4.3	0.3	0.4	32.6	<0.01	0.03
Y647701		1.15	12.3	630	4.7	49.4	<0.001	<0.01	0.29	3.8	0.2	0.8	16.2	<0.01	0.01
Y647708		0.95	16.2	310	7.6	7.7	<0.001	<0.01	0.47	4.0	0.3	0.5	15.5	0.01	0.02
Y647709		1.26	18.4	520	7.2	11.8	<0.001	<0.01	0.57	3.6	0.4	0.5	13.5	<0.01	0.04
Y647711		0.71	16.8	400	6.1	8.9	<0.001	<0.01	0.45	5.1	0.4	0.4	21.5	<0.01	0.02
Y647713		1.00	14.7	560	7.2	5.9	<0.001	<0.01	0.37	3.4	0.4	0.5	18.1	<0.01	0.02
Y647714		0.93	19.7	500	7.8	6.2	<0.001	<0.01	0.53	5.8	0.4	0.5	21.9	<0.01	0.02
Y647715		0.99	14.6	480	7.9	7.2	<0.001	<0.01	0.47	4.9	0.5	0.5	17.9	<0.01	0.03
Y647716		0.55	16.5	440	5.9	4.4	<0.001	<0.01	0.41	3.8	0.4	0.4	27.0	<0.01	0.01
Y647717		1.14	12.7	470	6.4	8.3	<0.001	<0.01	0.48	2.5	0.4	0.5	12.9	<0.01	0.03
Y647719		1.00	18.4	400	7.3	7.4	<0.001	<0.01	0.47	4.1	0.4	0.4	15.5	0.01	0.02
Y647720		0.93	16.1	450	7.2	8.5	<0.001	<0.01	0.45	3.7	0.4	0.5	18.6	<0.01	0.03
Y647722		0.96	13.6	260	8.5	7.6	<0.001	<0.01	0.39	3.7	0.4	0.5	17.5	<0.01	0.02
Y647723		0.94	14.6	480	11.8	9.8	<0.001	<0.01	0.35	2.8	0.3	0.4	15.7	<0.01	0.02
Y647727		0.58	15.3	590	5.1	4.1	<0.001	<0.01	0.40	4.5	0.3	0.3	29.4	<0.01	0.02
Y647729		0.98	14.8	410	7.6	5.2	<0.001	<0.01	0.37	4.7	0.6	0.5	24.5	<0.01	0.02



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CERTIFICATE OF ANALYSIS WH19318889

Sample Description	Method Analyte Units LOD	ME-MS41 Ti %	ME-MS41 Ti ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
Y647639		0.107	0.23	1.04	58	0.15	6.48	58	3.5
Y647642		0.098	0.24	1.47	42	0.09	6.62	54	3.4
Y647643		0.078	0.13	0.61	48	0.14	3.28	50	2.3
Y647645		0.071	0.08	0.74	47	0.35	11.80	51	1.9
Y647646		0.061	0.13	0.76	45	0.28	4.90	51	1.5
Y647647		0.070	0.07	0.96	54	0.22	10.35	39	1.9
Y647649		0.100	0.21	0.71	50	0.16	4.15	55	2.2
Y647650		0.094	0.23	2.21	34	0.09	8.69	58	3.8
Y647651		0.128	0.29	1.12	54	0.13	4.94	63	2.1
Y647652		0.057	0.13	0.81	50	0.18	3.22	72	1.1
Y647653		0.065	0.12	0.98	47	0.13	8.02	47	3.2
Y647654		0.068	0.08	0.94	53	0.16	5.04	41	3.3
Y647655		0.055	0.08	0.51	50	0.15	2.07	43	1.9
Y647656		0.100	0.16	0.74	54	0.17	3.35	52	3.5
Y647657		0.086	0.13	0.79	50	0.12	7.70	53	6.1
Y647658		0.061	0.07	0.93	53	0.13	3.90	48	3.0
Y647659		0.064	0.08	0.63	53	0.16	2.58	37	2.1
Y647660		0.062	0.05	0.90	50	0.14	9.22	37	2.8
Y647661		0.069	0.08	0.79	49	0.18	11.45	42	4.1
Y647662		0.062	0.08	0.85	53	0.17	5.90	40	2.3
Y647741		0.058	0.08	1.05	47	0.15	5.86	34	3.1
Y647742		0.059	0.07	1.04	53	0.21	4.06	36	1.8
Y647747		0.047	0.09	0.52	41	0.19	9.90	63	2.3
Y647750		0.052	0.05	1.23	47	0.16	8.42	38	1.6
Y647701		0.139	0.38	2.03	43	0.10	10.00	72	3.0
Y647708		0.071	0.09	0.73	60	0.23	3.18	42	3.1
Y647709		0.069	0.12	0.49	56	0.21	2.75	56	2.0
Y647711		0.069	0.10	0.97	51	0.15	8.48	43	1.3
Y647713		0.061	0.09	0.71	53	0.20	3.69	38	1.5
Y647714		0.066	0.10	1.36	55	0.25	9.37	47	1.7
Y647715		0.067	0.09	1.22	51	0.25	9.73	42	1.8
Y647716		0.058	0.07	0.65	51	0.14	5.39	38	3.0
Y647717		0.062	0.10	0.44	48	0.23	2.45	42	0.7
Y647719		0.070	0.09	1.40	53	0.23	5.54	39	2.9
Y647720		0.063	0.09	0.77	55	0.24	3.78	41	2.0
Y647722		0.067	0.11	1.48	56	0.20	5.19	47	2.1
Y647723		0.050	0.09	0.93	39	0.14	3.92	52	2.4
Y647727		0.059	0.06	1.13	44	0.15	8.41	35	1.8
Y647729		0.060	0.08	1.46	53	0.25	9.60	43	1.3



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CERTIFICATE OF ANALYSIS WH19318889

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG-21 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-AA23 ME-MS41



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Project: GHS

This report is for 199 Soil samples submitted to our lab in Whitehorse, YT, Canada on 16-DEC-2019.

The following have access to data associated with this certificate:

JIM COYNE

NICOLAI. GOEPEL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-MS41	Ultra Trace Aqua Regia ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver



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Sample Description	Method Analyte Units LOD	Au-AA23 Au ppm 0.005	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.02	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1	ME-MS41 Cs ppm 0.05
STANDARDS																
EMOG-17			63.4	1.57	562	0.85	10	50	0.45	5.66	0.92	20.1	39.2	740	44	5.82
EMOG-17			65.6	1.64	574	0.90	10	40	0.42	5.45	0.96	18.90	40.4	754	46	6.52
EMOG-17			66.3	1.56	582	0.92	<10	50	0.46	5.98	0.97	20.8	40.7	760	47	6.35
EMOG-17			65.9	1.55	576	0.88	<10	30	0.38	5.54	0.95	19.30	40.6	748	46	6.45
Target Range - Lower Bound			60.3	1.45	522	0.77	<10	30	0.32	5.32	0.87	18.35	37.6	680	42	5.57
Upper Bound			73.7	1.79	638	0.99	20	80	0.56	6.52	1.09	22.5	46.0	832	54	6.91
G313-5		7.11														
G313-5		7.15														
G313-5		7.00														
Target Range - Lower Bound		6.64														
Upper Bound		7.50														
KIP-19		2.47														
KIP-19		2.46														
Target Range - Lower Bound		2.28														
Upper Bound		2.58														
MRGeo08			4.25	2.61	33.1	<0.02	<10	420	0.81	0.67	1.06	2.18	69.4	18.1	86	10.20
MRGeo08			4.34	2.54	34.4	<0.02	<10	430	0.76	0.70	1.05	2.29	74.2	19.6	89	10.95
Target Range - Lower Bound			4.00	2.44	29.6	<0.02	<10	370	0.67	0.58	1.00	2.01	66.2	17.0	81	9.40
Upper Bound			4.92	3.00	36.4	0.04	20	530	0.95	0.73	1.24	2.47	81.0	21.0	102	11.60
OREAS 252		0.663														
OREAS 252		0.689														
Target Range - Lower Bound		0.629														
Upper Bound		0.719														
OREAS 905			0.52	0.84	33.6	0.38	<10	240	0.99	5.57	0.33	0.37	77.3	13.1	17	1.26
OREAS 905			0.55	0.78	34.1	0.39	<10	240	1.03	5.86	0.34	0.35	79.9	14.5	17	1.27
Target Range - Lower Bound			0.45	0.73	28.4	0.33	<10	200	0.78	4.97	0.29	0.30	69.7	12.4	15	1.05
Upper Bound			0.58	0.91	35.0	0.45	20	300	1.08	6.10	0.38	0.38	85.3	15.4	20	1.39
OREAS 920			0.10	2.44	5.2	<0.02	<10	80	0.70	0.64	0.31	0.06	69.2	14.4	41	2.07
OREAS 920			0.09	2.43	4.7	<0.02	<10	80	0.70	0.74	0.32	0.06	74.4	14.5	41	1.91
OREAS 920			0.09	2.33	5.3	<0.02	<10	80	0.71	0.70	0.32	0.05	73.8	15.0	41	2.14
OREAS 920			0.11	2.27	4.6	0.02	<10	70	0.70	0.53	0.31	0.06	70.6	14.3	40	1.88
Target Range - Lower Bound			0.07	2.18	4.2	<0.02	<10	50	0.59	0.60	0.28	0.04	64.8	13.4	37	1.84
Upper Bound			0.12	2.68	5.3	0.04	20	110	0.87	0.76	0.37	0.08	79.2	16.6	48	2.36
PMP-18		0.309														
PMP-18		0.313														
PMP-18		0.308														
Target Range - Lower Bound		0.285														
Upper Bound		0.331														



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QC CERTIFICATE OF ANALYSIS WH19318889

Sample Description	Method Analyte Units LOD	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01	ME-MS41 Nb ppm 0.05
STANDARDS																
EMOG-17		8260	4.53	5.68	0.15	0.42	0.56	0.849	0.64	19.5	17.7	0.76	638	1060	0.17	1.67
EMOG-17		8490	4.64	5.93	0.10	0.43	0.56	0.880	0.66	20.1	18.0	0.77	652	1080	0.18	1.29
EMOG-17		8400	4.68	6.11	0.13	0.43	0.59	0.915	0.67	20.7	18.6	0.79	652	1075	0.17	1.34
EMOG-17		8360	4.65	6.00	0.12	0.43	0.54	0.890	0.67	20.2	17.8	0.78	641	1045	0.17	1.30
Target Range - Lower Bound		7780	4.18	5.56	0.08	0.39	0.46	0.814	0.60	18.3	17.2	0.69	595	971	0.15	1.24
Upper Bound		8960	5.14	6.90	0.30	0.53	0.64	1.005	0.76	22.9	21.2	0.87	739	1185	0.20	1.80
G313-5																
G313-5																
G313-5																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		610	3.53	9.83	0.15	0.72	0.05	0.146	1.23	33.9	30.2	1.11	417	14.65	0.33	1.05
MRGeo08		616	3.61	9.45	0.14	0.73	0.07	0.163	1.26	36.6	31.2	1.15	412	14.20	0.32	1.08
Target Range - Lower Bound		587	3.22	8.73	0.07	0.64	0.04	0.137	1.12	33.2	29.6	1.03	378	13.10	0.30	0.75
Upper Bound		675	3.96	10.80	0.29	0.83	0.10	0.179	1.40	41.0	36.4	1.29	473	16.10	0.39	1.13
OREAS 252																
OREAS 252																
Target Range - Lower Bound																
Upper Bound																
OREAS 905		1550	3.46	6.68	0.12	1.15	0.02	0.579	0.32	39.0	4.3	0.15	347	3.09	0.10	0.32
OREAS 905		1545	3.46	6.22	0.09	1.15	0.02	0.593	0.31	39.9	4.7	0.15	344	2.89	0.09	0.25
Target Range - Lower Bound		1450	3.14	5.45	<0.05	1.02	<0.01	0.517	0.28	34.7	4.0	0.13	310	2.65	0.07	0.18
Upper Bound		1670	3.86	6.77	0.22	1.29	0.04	0.643	0.36	42.9	5.2	0.19	390	3.35	0.12	0.44
OREAS 920		110.0	3.56	6.46	0.11	0.58	<0.01	0.029	0.43	34.7	19.8	1.05	518	0.35	0.03	0.47
OREAS 920		110.5	3.61	6.50	0.09	0.55	<0.01	0.030	0.41	37.2	22.3	1.06	519	0.32	0.03	0.31
OREAS 920		109.5	3.56	6.86	0.09	0.59	<0.01	0.032	0.41	37.4	20.9	1.06	508	0.37	0.02	0.38
OREAS 920		109.5	3.52	6.47	0.09	0.53	0.17	0.029	0.39	35.9	22.2	1.05	494	0.34	0.03	0.30
Target Range - Lower Bound		102.0	3.26	6.12	<0.05	0.48	<0.01	0.019	0.37	33.3	19.0	0.93	454	0.26	<0.01	0.21
Upper Bound		118.0	4.00	7.60	0.22	0.63	0.02	0.043	0.47	41.1	23.4	1.15	566	0.50	0.04	0.47
PMP-18																
PMP-18																
PMP-18																
Target Range - Lower Bound																
Upper Bound																



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QC CERTIFICATE OF ANALYSIS WH19318889

Sample Description	Method Analyte Units LOD	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2	ME-MS41 Ti % 0.005
STANDARDS																
EMOG-17		7580	740	7200	69.4	0.298	3.07	702	4.7	5.6	1.9	49.1	0.01	1.20	10.0	0.207
EMOG-17		7750	750	7270	71.6	0.324	3.14	700	4.6	6.0	1.9	52.2	<0.01	1.28	10.4	0.214
EMOG-17		7780	760	7190	73.8	0.321	3.23	702	5.0	6.1	1.9	51.9	0.01	1.33	11.0	0.211
EMOG-17		7690	750	7090	72.0	0.316	3.18	678	4.7	6.1	1.9	50.0	0.01	1.22	10.9	0.210
Target Range - Lower Bound		6930	680	6510	66.5	0.287	2.90	574	4.3	5.5	1.5	47.5	<0.01	1.16	9.3	0.188
Upper Bound		8470	850	7950	81.5	0.353	3.56	776	5.5	7.2	2.6	58.5	0.03	1.44	11.8	0.240
G313-5																
G313-5																
G313-5																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		688	970	1060	139.0	0.008	0.30	3.54	7.3	0.6	3.5	75.5	0.02	0.01	20.9	0.373
MRGeo08		694	980	1060	143.0	0.009	0.31	3.20	7.3	1.0	3.3	75.6	0.02	0.02	22.2	0.385
Target Range - Lower Bound		622	900	959	132.0	0.006	0.27	2.80	6.7	0.6	2.8	72.1	<0.01	<0.01	19.1	0.338
Upper Bound		760	1130	1175	162.0	0.010	0.35	3.90	8.4	1.5	4.0	88.5	0.03	0.04	23.7	0.424
OREAS 252																
OREAS 252																
Target Range - Lower Bound																
Upper Bound																
OREAS 905		8.5	240	16.4	19.2	<0.001	0.07	1.20	1.7	2.6	1.4	13.1	<0.01	0.08	8.4	0.021
OREAS 905		9.3	240	16.2	18.6	<0.001	0.07	1.08	1.7	2.5	1.3	12.7	<0.01	0.07	8.9	0.020
Target Range - Lower Bound		7.8	610	14.4	16.3	<0.001	0.04	0.83	1.5	1.8	0.8	10.9	<0.01	0.04	7.4	0.008
Upper Bound		10.0	770	18.0	20.1	0.002	0.09	1.23	2.0	2.8	1.7	13.7	0.03	0.09	9.4	0.030
OREAS 920		37.3	680	22.1	24.1	<0.001	0.02	0.69	2.8	<0.2	1.0	16.9	0.02	0.01	15.8	0.115
OREAS 920		39.5	700	20.3	22.8	<0.001	0.03	0.58	2.7	0.2	1.0	16.4	0.01	0.02	15.4	0.121
OREAS 920		39.0	690	20.4	24.5	<0.001	0.03	0.60	2.9	0.3	1.1	17.5	0.02	0.01	16.6	0.124
OREAS 920		38.0	680	20.2	21.9	<0.001	0.03	0.62	2.6	0.4	1.0	16.3	0.01	0.02	15.4	0.112
Target Range - Lower Bound		34.4	630	19.2	22.2	<0.001	<0.01	0.45	2.5	<0.2	0.6	15.0	<0.01	<0.01	13.6	0.106
Upper Bound		42.4	790	23.9	27.4	0.002	0.05	0.77	3.3	0.6	1.6	18.8	0.02	0.04	17.0	0.140
PMP-18																
PMP-18																
PMP-18																
Target Range - Lower Bound																
Upper Bound																



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QC CERTIFICATE OF ANALYSIS WH19318889

Sample Description	Method Analyte Units LOD	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
STANDARDS								
EMOG-17		1.94	2.69	61	1.84	10.75	7370	11.6
EMOG-17		1.93	2.84	63	1.86	11.25	7470	12.9
EMOG-17		2.06	3.07	63	1.97	11.70	7530	12.9
EMOG-17		1.90	2.83	62	1.96	10.85	7440	12.5
Target Range - Lower Bound		1.71	2.57	58	1.65	10.20	6780	10.6
Upper Bound		2.37	3.25	74	2.35	12.60	8290	15.5
G313-5								
G313-5								
G313-5								
Target Range - Lower Bound								
Upper Bound								
KIP-19								
KIP-19								
Target Range - Lower Bound								
Upper Bound								
MRGeo08		0.79	5.45	96	3.00	18.70	765	22.5
MRGeo08		0.84	5.72	97	2.95	19.80	766	21.5
Target Range - Lower Bound		0.64	4.93	90	2.44	17.50	708	18.1
Upper Bound		0.92	6.13	112	3.42	21.5	870	25.7
OREAS 252								
OREAS 252								
Target Range - Lower Bound								
Upper Bound								
OREAS 905		0.11	2.27	5	0.58	7.13	65	45.0
OREAS 905		0.11	2.30	5	0.62	7.33	64	43.7
Target Range - Lower Bound		0.05	1.92	4	0.41	6.32	56	39.9
Upper Bound		0.15	2.46	8	0.73	7.84	72	55.1
OREAS 920		0.15	2.08	25	0.60	16.45	105	20.4
OREAS 920		0.15	2.06	24	0.45	17.20	104	20.7
OREAS 920		0.17	2.21	24	0.50	17.90	102	22.3
OREAS 920		0.14	1.93	23	0.61	16.40	103	19.0
Target Range - Lower Bound		0.09	1.89	21	0.31	15.80	93	17.6
Upper Bound		0.20	2.42	28	0.61	19.40	119	25.0
PMP-18								
PMP-18								
PMP-18								
Target Range - Lower Bound								
Upper Bound								



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QC CERTIFICATE OF ANALYSIS WH19318889

Sample Description	Method Analyte Units LOD	Au-AA23 Au ppm 0.005	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.02	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1	ME-MS41 Cs ppm 0.05
BLANKS																
BLANK		<0.005														
BLANK		0.005														
BLANK		<0.005														
BLANK		0.005														
BLANK		0.008														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
BLANK			<0.01	<0.01	<0.1	<0.02	<10	<10	<0.05	0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05
BLANK			<0.01	<0.01	<0.1	<0.02	<10	<10	<0.05	0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05
BLANK			<0.01	<0.01	<0.1	<0.02	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05
BLANK			<0.01	<0.01	<0.1	<0.02	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05
BLANK			<0.01	<0.01	<0.1	<0.02	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05
BLANK			<0.01	<0.01	0.1	<0.02	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05
Target Range - Lower Bound			<0.01	<0.01	<0.1	<0.02	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05
Upper Bound			0.02	0.02	0.2	0.04	20	20	0.10	0.02	0.02	0.02	0.04	0.2	2	0.10
DUPLICATES																
ORIGINAL		<0.005														
DUP		0.006														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
ORIGINAL		0.231														
DUP		0.209														
Target Range - Lower Bound		0.204														
Upper Bound		0.236														
ORIGINAL		3.28														
DUP		3.19														
Target Range - Lower Bound		3.07														
Upper Bound		3.40														
ORIGINAL		1.020														
DUP		0.988														
Target Range - Lower Bound		0.949														
Upper Bound		1.060														



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QC CERTIFICATE OF ANALYSIS WH19318889

Sample Description	Method Analyte Units LOD	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01	ME-MS41 Nb ppm 0.05
BLANKS																
BLANK																
BLANK																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.2	<0.01	<0.05	<0.05	<0.02	0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	0.01	<0.05
BLANK		<0.2	<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	0.01	<0.05
BLANK		<0.2	<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05
BLANK		<0.2	<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05
BLANK		<0.2	<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05
BLANK		<0.2	<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	0.1	<0.01	<5	<0.05	0.01	<0.05
Target Range - Lower Bound		<0.2	<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05
Upper Bound		0.4	0.02	0.10	0.10	0.04	0.02	0.010	0.02	0.4	0.2	0.02	10	0.10	0.02	0.10
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
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QC CERTIFICATE OF ANALYSIS WH19318889

Sample Description	Method Analyte Units LOD	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2	ME-MS41 Ti % 0.005
BLANKS																
BLANK																
BLANK																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.2	<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005
BLANK		<0.2	<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005
BLANK		<0.2	<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005
BLANK		<0.2	<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005
BLANK		<0.2	<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005
BLANK		<0.2	<10	<0.2	<0.1	<0.001	<0.01	0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005
Target Range - Lower Bound		<0.2	<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005
Upper Bound		0.4	20	0.4	0.2	0.002	0.02	0.10	0.2	0.4	0.4	0.4	0.02	0.02	0.4	0.010
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
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QC CERTIFICATE OF ANALYSIS WH19318889

Sample Description	Method Analyte Units LOD	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
BLANKS								
BLANK								
BLANK								
BLANK								
BLANK								
BLANK								
Target Range - Lower Bound								
Upper Bound								
BLANK		<0.02	<0.05	<1	<0.05	<0.05	<2	<0.5
BLANK		<0.02	<0.05	<1	<0.05	<0.05	<2	<0.5
BLANK		<0.02	<0.05	<1	<0.05	<0.05	<2	<0.5
BLANK		<0.02	<0.05	<1	<0.05	<0.05	<2	<0.5
BLANK		<0.02	<0.05	<1	<0.05	<0.05	<2	<0.5
BLANK		<0.02	<0.05	<1	<0.05	<0.05	<2	<0.5
Target Range - Lower Bound		<0.02	<0.05	<1	<0.05	<0.05	<2	<0.5
Upper Bound		0.04	0.10	2	0.10	0.10	4	1.0
DUPLICATES								
ORIGINAL								
DUP								
Target Range - Lower Bound								
Upper Bound								
ORIGINAL								
DUP								
Target Range - Lower Bound								
Upper Bound								
ORIGINAL								
DUP								
Target Range - Lower Bound								
Upper Bound								



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Sample Description	Method Analyte Units LOD	Au-AA23 Au ppm 0.005	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.02	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1	ME-MS41 Cs ppm 0.05
DUPLICATES																
ORIGINAL		0.019														
DUP		0.017														
Target Range - Lower Bound		0.012														
Upper Bound		0.024														
X983005			0.08	1.02	5.8	<0.02	<10	140	0.21	0.11	0.14	0.08	15.05	4.6	17	0.60
DUP			0.08	1.02	5.8	<0.02	<10	140	0.23	0.11	0.14	0.09	15.85	4.6	17	0.62
Target Range - Lower Bound			0.07	0.96	5.4	<0.02	<10	120	0.16	0.09	0.12	0.07	14.65	4.3	15	0.53
Upper Bound			0.09	1.08	6.2	0.04	20	160	0.28	0.13	0.16	0.10	16.25	4.9	19	0.69
X983074			0.07	1.93	8.5	0.04	<10	230	0.44	0.14	0.22	0.05	25.9	8.2	32	1.02
DUP			0.06	1.97	8.8	<0.02	<10	230	0.46	0.14	0.22	0.06	25.4	8.4	33	1.02
Target Range - Lower Bound			0.05	1.84	8.1	<0.02	<10	200	0.38	0.12	0.20	0.04	24.3	7.8	30	0.92
Upper Bound			0.08	2.06	9.2	0.04	20	260	0.52	0.16	0.24	0.07	27.0	8.8	35	1.12
Y647296			0.05	1.42	7.4	<0.02	<10	130	0.29	0.13	0.21	0.06	18.20	5.0	22	0.72
DUP			0.05	1.50	8.0	<0.02	<10	130	0.30	0.13	0.23	0.06	19.85	5.4	23	0.81
Target Range - Lower Bound			0.04	1.38	7.2	<0.02	<10	110	0.23	0.11	0.20	0.05	18.05	4.8	20	0.68
Upper Bound			0.06	1.54	8.2	0.04	20	150	0.36	0.15	0.24	0.07	20.00	5.6	25	0.85
Y647739		0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
Y647305		0.011														
DUP		0.006														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
Y647363			0.06	1.69	8.2	<0.02	<10	140	0.41	0.14	0.19	0.10	17.90	9.0	28	0.94
DUP			0.05	1.74	8.4	<0.02	<10	140	0.40	0.14	0.20	0.10	19.25	9.1	29	0.97
Target Range - Lower Bound			0.04	1.62	7.8	<0.02	<10	120	0.33	0.12	0.18	0.09	17.65	8.5	26	0.86
Upper Bound			0.07	1.81	8.8	0.04	20	160	0.48	0.16	0.21	0.12	19.50	9.6	31	1.05
Y647522		<0.005														
DUP		0.006														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														



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Sample Description	Method Analyte Units LOD	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01	ME-MS41 Nb ppm 0.05
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
X983005 DUP Target Range - Lower Bound Upper Bound		14.0 13.6 13.1 14.5	1.62 1.65 1.54 1.73	3.82 3.81 3.57 4.06	<0.05 <0.05 <0.05 0.10	<0.02 <0.02 <0.02 0.04	0.02 0.02 <0.01 0.03	0.015 0.013 0.008 0.020	0.04 0.04 0.03 0.05	7.6 7.9 7.2 8.3	6.8 6.7 6.3 7.2	0.24 0.25 0.22 0.27	159 160 147 172	0.60 0.61 0.52 0.69	0.02 0.02 <0.01 0.03	0.42 0.43 0.34 0.51
X983074 DUP Target Range - Lower Bound Upper Bound		20.4 20.6 19.6 21.4	2.52 2.57 2.41 2.68	5.68 5.64 5.33 5.99	0.05 0.06 <0.05 0.10	0.07 0.08 0.05 0.10	0.01 0.01 <0.01 0.02	0.022 0.023 0.016 0.029	0.05 0.05 0.04 0.06	13.2 13.4 12.4 14.2	10.7 10.9 10.2 11.4	0.45 0.46 0.42 0.49	276 280 259 297	0.79 0.77 0.69 0.87	0.02 0.02 <0.01 0.03	1.02 1.00 0.88 1.14
Y647296 DUP Target Range - Lower Bound Upper Bound		14.2 15.2 14.0 15.4	2.01 2.10 1.94 2.17	4.64 5.13 4.59 5.18	<0.05 <0.05 <0.05 0.10	<0.02 <0.02 <0.02 0.04	0.03 0.02 <0.01 0.04	0.017 0.019 0.012 0.024	0.05 0.06 0.04 0.07	9.6 10.5 9.3 10.8	9.9 9.6 9.2 10.3	0.33 0.35 0.31 0.37	166 172 156 182	0.59 0.66 0.54 0.71	0.02 0.02 <0.01 0.03	0.56 0.60 0.49 0.67
Y647739 DUP Target Range - Lower Bound Upper Bound																
Y647305 DUP Target Range - Lower Bound Upper Bound																
Y647363 DUP Target Range - Lower Bound Upper Bound		17.6 17.3 16.6 18.3	2.36 2.39 2.25 2.50	5.39 5.44 5.09 5.74	<0.05 <0.05 <0.05 0.10	0.03 0.03 <0.02 0.04	0.04 0.03 0.02 0.05	0.024 0.023 0.017 0.030	0.04 0.04 0.03 0.05	9.5 10.4 9.3 10.6	10.9 10.7 10.2 11.4	0.41 0.42 0.38 0.45	228 231 213 246	0.75 0.72 0.65 0.82	0.01 0.01 <0.01 0.02	0.94 0.93 0.81 1.06
Y647522 DUP Target Range - Lower Bound Upper Bound																



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Sample Description	Method Analyte Units LOD	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2	ME-MS41 Ti % 0.005
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
X983005 DUP Target Range - Lower Bound Upper Bound		9.5 9.4 8.8 10.1	390 400 370 420	5.4 5.3 4.9 5.8	5.0 5.2 4.7 5.5	<0.001 <0.001 <0.001 0.002	<0.01 <0.01 <0.01 0.02	0.28 0.29 0.21 0.36	1.4 1.4 1.2 1.6	<0.2 <0.2 <0.2 0.4	0.3 0.3 <0.2 0.4	15.1 14.8 14.0 15.9	<0.01 <0.01 <0.01 0.02	0.02 0.02 <0.01 0.03	0.3 0.4 <0.2 0.4	0.039 0.043 0.034 0.048
X983074 DUP Target Range - Lower Bound Upper Bound		16.5 16.7 15.6 17.6	250 250 230 270	8.4 8.1 7.6 8.9	8.1 8.3 7.7 8.7	<0.001 <0.001 <0.001 0.002	0.01 0.01 <0.01 0.02	0.48 0.47 0.39 0.56	4.1 4.1 3.8 4.4	0.2 0.3 <0.2 0.4	0.6 0.6 0.4 0.8	26.1 26.4 24.7 27.8	<0.01 <0.01 <0.01 0.02	0.03 0.01 <0.01 0.03	5.0 4.9 4.5 5.4	0.080 0.083 0.072 0.091
Y647296 DUP Target Range - Lower Bound Upper Bound		11.0 11.8 10.6 12.2	570 590 540 620	6.4 6.6 6.0 7.0	5.4 6.1 5.4 6.1	<0.001 <0.001 <0.001 0.002	0.01 0.01 <0.01 0.02	0.31 0.33 0.25 0.39	1.6 1.8 1.5 1.9	0.3 0.3 <0.2 0.4	0.4 0.5 <0.2 0.7	20.7 22.6 20.4 22.9	<0.01 <0.01 <0.01 0.02	0.02 0.03 <0.01 0.04	0.3 0.3 <0.2 0.4	0.048 0.052 0.043 0.058
Y647739 DUP Target Range - Lower Bound Upper Bound																
Y647305 DUP Target Range - Lower Bound Upper Bound																
Y647363 DUP Target Range - Lower Bound Upper Bound		15.6 15.5 14.6 16.5	570 580 540 610	7.4 7.7 7.0 8.1	7.3 7.5 6.9 7.9	<0.001 <0.001 <0.001 0.002	<0.01 0.01 <0.01 0.02	0.31 0.32 0.24 0.39	3.4 3.4 3.1 3.7	0.2 0.3 <0.2 0.4	0.5 0.5 0.3 0.7	19.6 20.8 19.0 21.4	<0.01 <0.01 <0.01 0.02	0.02 0.02 <0.01 0.03	2.6 2.7 2.3 3.0	0.064 0.066 0.057 0.073
Y647522 DUP Target Range - Lower Bound Upper Bound																



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Sample Description	Method Analyte Units LOD	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES						
X983005 DUP Target Range - Lower Bound Upper Bound		0.06 0.07 0.04 0.09	0.48 0.47 0.40 0.55	41 42 38 45	0.13 0.12 0.07 0.18	2.52 2.58 2.37 2.73	28 28 25 31	<0.5 <0.5 <0.5 1.0
X983074 DUP Target Range - Lower Bound Upper Bound		0.12 0.12 0.09 0.15	0.88 0.86 0.78 0.96	60 61 56 65	0.21 0.13 0.11 0.23	4.06 4.16 3.85 4.37	45 46 41 50	3.7 3.8 3.0 4.5
Y647296 DUP Target Range - Lower Bound Upper Bound		0.09 0.10 0.07 0.12	0.58 0.62 0.52 0.68	48 50 46 52	0.20 0.21 0.14 0.27	2.83 3.20 2.81 3.22	34 35 31 38	<0.5 <0.5 <0.5 1.0
Y647739 DUP Target Range - Lower Bound Upper Bound								
Y647305 DUP Target Range - Lower Bound Upper Bound								
Y647363 DUP Target Range - Lower Bound Upper Bound		0.11 0.11 0.08 0.14	0.82 0.84 0.74 0.92	55 57 52 60	0.23 0.22 0.16 0.29	3.17 3.26 3.00 3.43	41 42 37 46	1.0 1.1 <0.5 1.6
Y647522 DUP Target Range - Lower Bound Upper Bound								



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Sample Description	Method Analyte Units LOD	Au-AA23 Au ppm 0.005	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.02	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1	ME-MS41 Cs ppm 0.05
DUPLICATES																
Y647606			0.01	1.48	8.0	<0.02	<10	190	0.55	0.12	0.25	0.06	46.9	8.6	30	0.86
DUP			0.01	1.44	8.0	<0.02	<10	180	0.51	0.12	0.24	0.07	47.3	8.6	29	0.90
Target Range - Lower Bound			<0.01	1.38	7.5	<0.02	<10	160	0.45	0.10	0.22	0.05	44.7	8.1	27	0.79
Upper Bound			0.02	1.54	8.5	0.04	20	210	0.61	0.14	0.27	0.08	49.5	9.1	32	0.97
Y647642		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
Y647742		<0.005														
DUP		0.006														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
Y647701			0.02	1.67	5.1	<0.02	<10	270	0.42	0.10	0.20	0.05	63.2	6.6	18	2.35
DUP			0.02	1.68	5.2	<0.02	<10	270	0.40	0.10	0.20	0.05	68.6	7.0	18	2.40
Target Range - Lower Bound			<0.01	1.58	4.8	<0.02	<10	240	0.34	0.09	0.18	0.04	62.6	6.4	16	2.21
Upper Bound			0.03	1.77	5.5	0.04	20	300	0.48	0.12	0.22	0.06	69.2	7.2	20	2.54
ORIGINAL		0.075														
DUP		0.035														
Target Range - Lower Bound		0.047														
Upper Bound		0.063														
ORIGINAL		0.604														
DUP		0.598														
Target Range - Lower Bound		0.566														
Upper Bound		0.636														
ORIGINAL		0.043														
DUP		0.045														
Target Range - Lower Bound		0.037														
Upper Bound		0.051														



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Sample Description	Method Analyte Units LOD	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01	ME-MS41 Nb ppm 0.05
DUPLICATES																
Y647606		18.9	2.32	4.51	0.06	0.12	0.04	0.020	0.07	27.4	13.1	0.45	397	0.56	0.01	0.54
DUP		19.0	2.23	4.61	0.05	0.12	0.04	0.020	0.06	27.8	12.8	0.44	383	0.58	0.01	0.54
Target Range - Lower Bound		18.1	2.15	4.28	<0.05	0.09	0.03	0.014	0.05	26.0	12.2	0.41	366	0.49	<0.01	0.45
Upper Bound		19.8	2.40	4.84	0.10	0.15	0.05	0.026	0.08	29.2	13.7	0.48	415	0.65	0.02	0.63
Y647642																
DUP																
Target Range - Lower Bound																
Upper Bound																
Y647742																
DUP																
Target Range - Lower Bound																
Upper Bound																
Y647701		13.7	2.26	6.78	0.08	0.09	<0.01	0.020	0.39	37.5	41.8	0.51	421	0.35	0.02	1.15
DUP		14.0	2.24	7.02	0.07	0.09	0.01	0.020	0.39	40.8	39.8	0.51	419	0.38	0.01	1.14
Target Range - Lower Bound		13.2	2.13	6.51	<0.05	0.07	<0.01	0.014	0.36	37.0	38.7	0.47	394	0.30	<0.01	1.01
Upper Bound		14.5	2.37	7.30	0.10	0.11	0.02	0.026	0.42	41.3	42.9	0.55	446	0.43	0.02	1.28
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
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Sample Description	Method Analyte Units LOD	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2	ME-MS41 Ti % 0.005
DUPLICATES																
Y647606		20.5	420	6.7	9.2	<0.001	<0.01	0.43	5.6	0.5	0.4	23.4	<0.01	0.01	5.8	0.074
DUP		20.4	390	6.7	9.5	<0.001	<0.01	0.39	5.6	0.3	0.5	24.0	<0.01	0.02	5.9	0.074
Target Range - Lower Bound		19.2	370	6.2	8.8	<0.001	<0.01	0.33	5.2	<0.2	<0.2	22.3	<0.01	<0.01	5.4	0.065
Upper Bound		21.7	440	7.2	9.9	0.002	0.02	0.49	6.0	0.6	0.7	25.1	0.02	0.02	6.3	0.083
Y647642																
DUP																
Target Range - Lower Bound																
Upper Bound																
Y647742																
DUP																
Target Range - Lower Bound																
Upper Bound																
Y647701		12.3	630	4.7	49.4	<0.001	<0.01	0.29	3.8	0.2	0.8	16.2	<0.01	0.01	14.5	0.139
DUP		12.2	630	4.9	49.1	<0.001	<0.01	0.29	3.8	0.2	0.8	16.2	<0.01	0.01	17.0	0.140
Target Range - Lower Bound		11.4	590	4.4	46.7	<0.001	<0.01	0.22	3.5	<0.2	0.6	15.2	<0.01	<0.01	14.8	0.128
Upper Bound		13.1	670	5.2	51.8	0.002	0.02	0.36	4.1	0.4	1.0	17.2	0.02	0.02	16.7	0.151
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: KLUANE DRILLING LTD
 14 MACDONALD ROAD
 WHITEHORSE YT Y1A 4L2

Page: 5 - D
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 9-JAN-2020
 Account: KLUDRIL

Project: GHS

QC CERTIFICATE OF ANALYSIS WH19318889

Sample Description	Method Analyte Units LOD	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
DUPLICATES								
Y647606		0.11	1.21	52	0.18	7.53	45	5.8
DUP		0.11	1.20	50	0.16	7.49	44	5.8
Target Range - Lower Bound		0.08	1.09	47	0.11	7.08	40	4.9
Upper Bound		0.14	1.32	55	0.23	7.94	49	6.7
Y647642								
DUP								
Target Range - Lower Bound								
Upper Bound								
Y647742								
DUP								
Target Range - Lower Bound								
Upper Bound								
Y647701		0.38	2.03	43	0.10	10.00	72	3.0
DUP		0.38	2.21	43	0.10	9.89	71	3.0
Target Range - Lower Bound		0.33	1.96	40	<0.05	9.40	66	2.3
Upper Bound		0.43	2.28	46	0.16	10.50	77	3.7
ORIGINAL								
DUP								
Target Range - Lower Bound								
Upper Bound								
ORIGINAL								
DUP								
Target Range - Lower Bound								
Upper Bound								
ORIGINAL								
DUP								
Target Range - Lower Bound								
Upper Bound								



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To: KLUANE DRILLING LTD
14 MACDONALD ROAD
WHITEHORSE YT Y1A 4L2

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 9-JAN-2020
Account: KLUDRIL

Project: GHS

QC CERTIFICATE OF ANALYSIS WH19318889

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG-21 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-AA23 ME-MS41



HORIZON HELICOPTERS

Invoice 5432310
2019-10-16

Horizon Helicopters
20 Electra Crescent
Whitehorse, YT Y1A 0M7
Canada
Phone (867) 633-6044
cole@horizonhelicopters.ca

Sold to
Higher Ground Exploration

Attn: highergroundexploration@outlook.com

Job name: Carmacks Soil Sampling

Quantity	Unit Price	Description	Amount
3.2 Hours	\$1,350.00	C-GHZN (AS350SD) Flight Report #66744 on 2019-10-07	\$4,320.00
4.1 Hours	\$1,350.00	C-GHZN (AS350SD) Flight Report #66892 on 2019-10-08	\$5,535.00
3.1 Hours	\$1,350.00	C-GHZN (AS350SD) Flight Report #67020 on 2019-10-09	\$4,185.00
4.2 Hours	\$1,350.00	C-GHZN (AS350SD) Flight Report #67161 on 2019-10-10	\$5,670.00
432	\$1.20	FR#67161 Item: Fuel Whitehorse	\$518.40
1400	\$1.36	FR#67161 Item: Fuel Drum	\$1,904.00
Subtotal			\$22,132.40
Pre Tax			\$22,132.40
Tax (5%)			\$1,106.62
PAY THIS AMOUNT			\$23,239.02

Payment due within 30 days of invoice date. GST # 881858716 RT0001 Interest will be charged on overdue accounts at a rate of 2% per Month (24% per Annum) *Confidential Contract



Daily Flight Report 66744
2019-10-07

Horizon Helicopters

20 Electra Crescent
Whitehorse, YT Y1A 0M7
Canada

Phone (867) 633-6044
cole@horizonhelicopters.ca

Sold To:

Higher Ground Exploration

Attn:

highergroundexploration@outlook.com

Client

Higher Ground Exploration

Job Name

Carmacks Soil Sampling

Aircraft Ident

C-GHZN

TDG

no

Job Details

Flight Details

YXY-Carmacks Soil sampling

Crew

PIC: Ian Pitchforth

Passengers: 5

Flight Report Signed By

Leg Description	Up Time	Down Time	Total
Leg #1 to - Position to Carmacks	0830	0941	1.2
Leg #2 (5 Pax) to - Setouts	1024	1101	0.6
Leg #3 (4 Pax) to - Pickups (wait for 2 pads to be completed)	1753	1844	0.9
Leg #4 (5 Pax) to - Pickup and return to Carmacks	1908	1936	0.5
Billable Flight Report Hours		Total	3.2

*Thank you and we look forward to flying with you again.



HORIZON HELICOPTERS

Daily Flight Report 66892
2019-10-08

Horizon Helicopters

20 Electra Crescent
Whitehorse, YT Y1A 0M7
Canada

Phone (867) 633-6044
cole@horizonhelicopters.ca

Sold To:

Higher Ground Exploration

Attn:

highergroundexploration@outlook.com

Client

Job Name

Aircraft Ident

TDG

Higher Ground Exploration

Carmacks Soil Sampling

C-GHZN

no

Job Details**Flight Details**

Carmacks soil sampling

Crew

PIC: Ian Pitchforth

Passengers: 5

Flight Report Signed By

Leg Description	Up Time	Down Time	Total
Leg #1 (5 Pax) to - Hover exit training then setout 4 pax-staging-setout 5th pax, return to Carmacks	0936	1100	1.4
Leg #2 to - Sling fuel to staging	1201	1218	0.3
Leg #3 to - Sling fly basket to sample area, then standby	1222	1241	0.3
Leg #4 (1 Pax) to - Pickup samples, then bump Steven, then retrieve samples and head to staging	1304	1353	0.8
Leg #5 (4 Pax) to - Pickups, couple of pads not quite ready	1714	1757	0.7
Leg #6 (5 Pax) to - Pickup 5th pax and return to staging and then Carmacks	1815	1848	0.6
Billable Flight Report Hours		Total	4.1

*Thank you and we look forward to flying with you again.



Daily Flight Report 67020
2019-10-09

Horizon Helicopters

20 Electra Crescent
Whitehorse, YT Y1A 0M7
Canada

Phone (867) 633-6044
cole@horizonhelicopters.ca

Sold To:

Higher Ground Exploration

Attn:

highergroundexploration@outlook.com

Client

Higher Ground Exploration

Job Name

Carmacks Soil Sampling

Aircraft Ident

C-GHZN

TDG

no

Job Details

Flight Details

Carmacks soil sampling

Crew

PIC: Ian Pitchforth

Passengers: 5

Dangerous Good Carried: UN1950 - Aerosol, Bear
Spray - Class 2.1 Flamm Gas - PG II

DG Quantity and Unit: 5

Flight Report Signed By

Leg Description	Up Time	Down Time	Total
Leg #1 (5 Pax) to - Setouts	0925	1011	0.8
Leg #2 to - Drop sample bags to Nicolai	1035	1043	0.2
Leg #3 (1 Pax) to - Bump Chris and head to staging	1122	1147	0.4
Leg #4 to - Pickup samples and return to staging	1252	1335	0.7
Leg #5 (5 Pax) to - Pickups and return to Carmacks	1650	1748	1
Billable Flight Report Hours		Total	3.1

*Thank you and we look forward to flying with you again.



HORIZON HELICOPTERS

Daily Flight Report 67161
2019-10-10

Horizon Helicopters

20 Electra Crescent
Whitehorse, YT Y1A 0M7
Canada
Phone (867) 633-6044
cole@horizonhelicopters.ca

Sold To:

Higher Ground Exploration

Attn: highergroundexploration@outlook.com

Client

Higher Ground
Exploration

Job Name

**Carmacks Soil
Sampling**

Aircraft Ident

C-GHZN

TDG

no

Leg Description	Up Time	Down Time	Total
Leg #1 (4 Pax) to - Setouts	0902	0958	0.9
Leg #2 (1 Pax) to - Setout and return to staging	1003	1035	0.5
Leg #3 to - Pickup samples	1252	1335	0.7
Leg #4 (5 Pax) to - Pickups	1642	1724	0.7
Leg #5 (4 Pax) to - Staging to Carmacks	1728	1744	0.3
Leg #6 (1 Pax) to - Return to Whitehorse Fuel Whitehorse: 432L @ \$1.20 = \$518.40 Fuel Drum: 1400L @ \$1.36 = \$1,904.00	1802	1909	1.1
Billable Flight Report Hours		Total	4.2

Job Details

Flight Details

Carmacks soil sampling and return to
Whitehorse

Crew

PIC: Ian Pitchforth

Passengers: 5

Dangerous Good Carried: UN1950 -
Aerosol, Bear Spray - Class 2.1 Flamm
Gas - PG II

DG Quantity and Unit: 5

***** Flight Report Unsigned *****

*Thank you and we look forward to flying with you again.



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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To: **KLUANE DRILLING LTD**
14 MACDONALD ROAD
WHITEHORSE YT Y1A 4L2

Page 1 of 1

INVOICE NUMBER 5000204

BILLING INFORMATION

Certificate: **WH19318889**
Sample Type: **Soil**
Account: **KLUDRIL**
Date: **9-JAN-2020**
Project: **GHS**
P.O. No.:
Quote:
Terms: **Due on Receipt** **C1**
Comments:

		ANALYSED FOR		UNIT PRICE	TOTAL
QUANTITY	CODE	-	DESCRIPTION		
1	BAT-01		Administration Fee	37.60	37.60
199	PREP-41A		Dry, Sieve 180 um Soil barcode	1.55	308.45
143.66	PREP-41A		Weight Charge (kg) - Dry, Sieve 180 um Soil barcode	2.80	402.25
199	Au-AA23		Au 30g FA-AA finish	18.25	3,631.75
199	ME-MS41		Ultra Trace Aqua Regia ICP-MS	28.60	5,691.40

SUBTOTAL (CAD) \$ 10,071.45

R100938885 GST \$ 503.57

TOTAL PAYABLE (CAD) \$ 10,575.02

To: **KLUANE DRILLING LTD**
ATTN: NICOLAI. GOEPPEL
14 MACDONALD ROAD
WHITEHORSE YT Y1A 4L2

Payment may be made by: Cheque or Bank Transfer

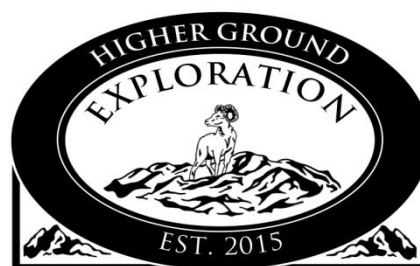
Beneficiary Name: ALS Canada Ltd.
Bank: Royal Bank of Canada
SWIFT: ROYCCAT2
Address: Vancouver, BC, CAN
Account: 003-00010-1001098
Please send payment info to accounting.canusa@alsglobal.com

Please Remit Payments To :
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7

Higher Ground Exploration Services

609 Drury Street
Whitehorse, YT Y1A 1T6

Phone (867) 336-1498
highergroundexploration@outlook.com



Invoice

BILL TO:

Kluane Drilling Ltd.
14 MacDonald Road
Whitehorse, YT, Y1A 4L2

TAX No. 784 848 095 RT 000 1

DATE: October 15, 2019
INVOICE # 1982

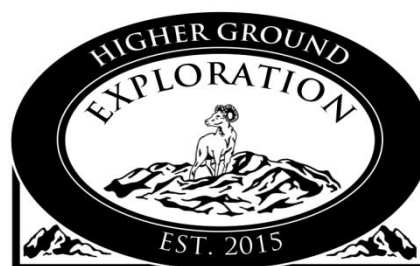
Description	Quantity	Rate	Amount
Golden Horseshoe - 2019 Soil Sampling			
2019-10-06: Soil Sampling Preparation	2	\$ 450.00	\$ 900.00
2019-10-07: Soil Sampling	5	\$ 450.00	\$ 2,250.00
2019-10-08: Soil Sampling	5	\$ 450.00	\$ 2,250.00
2019-10-09: Soil Sampling	5	\$ 450.00	\$ 2,250.00
2019-10-10: Soil Sampling	5	\$ 450.00	\$ 2,250.00
2019-10-11: Samples organization	2	\$ 450.00	\$ 900.00
Soil Augers	5	\$ 100.00	\$ 500.00
Truck	4	\$ 150.00	\$ 600.00
Truck	4	\$ 150.00	\$ 600.00
Expenses			\$ 6,134.24
Gear (Radio, GPS,etc.)	5	\$ 250.00	\$ 1,250.00

SUBTOTAL	\$	19,884.24
GST 5%	\$	994.21
TOTAL	\$	20,878.45

Higher Ground Exploration Services

609 Drury Street
Whitehorse, YT Y1A 1T6

Phone (867) 336-1498
highergroundexploration@outlook.com



Invoice

BILL TO:

Kluane Drilling Ltd.
14 MacDonald Road
Whitehorse, YT, Y1A 4L2

TAX No. 784 848 095 RT 000 1

DATE: November 3, 2019
INVOICE # 1989

Description	Quantity	Rate	Amount
Golden Horseshoe - 2019 Soil Sampling			
Sample XRF-ing	450	\$ 10.00	\$ 4,500.00

SUBTOTAL	\$	4,500.00
GST 5%	\$	225.00
TOTAL	\$	4,725.00

