

RAB DRILL REPORT
on the
LOONIE PROJECT

White Gold District, Yukon Territory

Loonie 1-80	YD88741-YD88820
Loonie 81-155, 157-300	YD130689-763, 765-908
Loonie 301-500	YE19951-YE20150

NTS: 1150/12

Latitude 63°38'N Longitude 139°42'W

Dawson Mining District

Work Performed: June 6 to July 8, 2017

For
White Gold Corp.
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1.0 Executive Summary

The 10,432 hectare Loonie Project, NTS map sheet 115O/12, is centered at a latitude of 63°38'N and a longitude of 139°42'W, approximately 50 km south of Dawson City, which lies 538 km by paved highway north of Whitehorse, Yukon Territory. The claims, situated within the Dawson Mining District, extend southwards from Reindeer Creek to beyond lower Lucky Joe Creek, east of the Yukon River within the unglaciated Yukon Plateau. White Gold Corp. of the Province of Ontario owns 100% of the Loonie Project, subject to a 2% net smelter royalty. The 2017 program was funded by White Gold Corp. and completed by GroundTruth Exploration Inc. of Dawson City, Yukon Territory. This report was prepared to support assessment filing requirements by White Gold Corp.

The Loonie property is underlain by a Devonian and older to Permian package of metamorphic rocks of the Yukon-Tanana terrane primarily consisting of orthogneiss, lesser quartzite and minor siliciclastic schistose metasedimentary rocks, amphibolite, and marble. The above units are intruded by Cretaceous and/or Jurassic intrusions and Eocene quartz-feldspar porphyry dykes.

Regionally the Loonie Project is located within the White Gold district, 30 km northwest of the JP Ross property and 50 km north of the Golden Saddle deposit, of White Gold Corp., and 40 km north of the VG zone on the QV property of Comstock Metals Ltd. The NI 43-101 compliant Indicated Resource at the Golden Saddle deposit as of December 31, 2015 is 9,788,000 tonnes grading 2.7 g/t Au, primarily mineable by open pit methods, with an additional 2,166,000 tonnes Inferred grading 1.8 g/t Au (*Kinross, 2016*). The VG zone at QV contains an Inferred Mineral Resource of 4.39 million tonnes at 1.65 g/t Au (*Pautler and Shahkar, 2014*). The author has not been able to independently verify the above information and it is not necessarily indicative of the mineralization on the Loonie Project which is the subject of this report.

The Loonie Project is also situated 80 km north of Goldcorp's Coffee deposit where mineralization is hosted by metamorphosed Paleozoic basement rocks of the Yukon-Tanana terrane (primarily a felsic orthogneiss) and the mid Cretaceous Coffee Creek pluton, part of the Dawson Range Batholith, with a strong structural control. Coffee has a NI 43-101 compliant Proven Reserve of 46.36 million tonnes grading 1.45 g/t Au, an Indicated Resource of 17.69 million tonnes grading 1.21 g/t Au and an Inferred Resource of 52.35 million tonnes grading 1.31 g/t Au (*Goldcorp, 2016*). The author has not been able to independently verify the above information and it is not necessarily indicative of the mineralization on the Loonie Project which is the subject of this report.

Historically, the Loonie Project covers the Rudolf and Stockade Minfile occurrences (Minfile Numbers 115O 050 and 156), as documented by the Yukon Geological Survey. Quartz veins, old placer pits, fine garnet, magnetite, pyrite and minor fine gold from panning are reported at the Rudolf. Approximately 70 reconnaissance ridge and spur soil samples from the Guilder grid area were collected by Kennecott Canada Exploration Inc. in 2003, in conjunction with their work on the Lucky Joe copper-gold prospect, yielding two values greater than 140 ppm Cu. The current Loonie claims were acquired by Shawn Ryan and Wildwood Explorations in 2010.

Documented previous exploration on the Loonie Project, undertaken from 2011 to 2014 by Geo Zone Exploration Limited, has included the collection of approximately 6,353 soil samples (covering about 25% of the property), mapping and prospecting over 5% of the property, 150 line kilometres of ground magnetic (about 10% coverage) and 80.1 line kilometres of ground ELF geophysical surveying (5% coverage), 1925m of small excavator trenching on the Peso

and Lira zones in 17 trenches, and 5.94 line kilometres of induced polarization geophysical surveying, an aerial drone survey (25% coverage) and 613m of rotary air blast drilling in 8 holes on the Lira zone. A structural and lithological analysis was completed in 2016 by White Gold Corp.

Exploration in 2017 by White Gold Corp. has consisted of: an aerial drone survey (25% coverage) over the Peso and Guilder zones; a 146 line km DIGHEM geophysical survey; 1,460m of GTprobe (bedrock interface) sampling; and 1,970m of rotary air blast drilling in 30 holes on the Lira zone. Only the rotary air blast drilling has been filed for assessment.

An east-northeasterly trending zone of shear hosted gold mineralization has been discovered at the Lira zone on the Loonie Project within the central property area. Mineralization has been discontinuously traced over a 620m extent by a total of 2,583m of RAB drilling and 546m of small excavator trenching in 11 trenches. The zone occurs within a 75 by 740m east-northeasterly trending gold soil anomaly with a peak value of 3700.1 ppb Au. RAB drill results include 4.93 g/t Au over 12.2m, including 20.7 g/t Au over 1.5m in LOORAB14-01, 4.6 g/t Au over 7.6m, including 17.1 g/t Au over 1.5m in 17LOO009, 4.1 g/t Au over 7.6m, including 11.5 g/t Au over 1.5m in 17LOO025, 5.2 g/t Au over 4.6m, including 9.3 g/t Au over 1.5m in 17LOO035 and 0.90 g/t Au over 16.8m in LOORAB14-08. Trench results include 13.3 g/t Au over 10m, 1.61 g/t Au over 15m and 3.8 g/t Au over 5m. The zone remains open to the west and at depth.

The Lira zone appears to consist of multiple mineralized segments with variable dips, which are controlled by the intersection of mineralized structure(s) with S2 fold hinges within brittle host rocks (e.g. felsic orthogneiss) and/or at lithologic contacts. The gold mineralization is hosted by quartz-carbonate, \pm muscovite-sericite, \pm clay, \pm Kspar altered felsic augen gneiss with quartz veining, disseminated pyrite(limonite), hematite and, locally, visible gold. The mineralization and alteration has similarities to the Golden Saddle deposit and VG zone at QV. A strong structural control indicated by fracturing, brecciation and gouge is evident, similar to Goldcorp's Coffee Project.

Anomalous gold values at the Lira zone are associated with anomalous silver, bismuth, tellurium and mercury. The maximum gold value from trenching on the Lira zone, consisting of 25.2 g/t Au over 5m from Trench 12-15, was accompanied by 5.6 ppm Ag, 10.8 ppm Bi, 23.5 ppm Te, and 1.02 ppm Hg. This is similar to the geochemical signature at the VG zone on the QV property of Comstock Metals Ltd. (*Comstock news release June 29, 2012*).

The east-northeasterly trend of the Lira zone is consistent with the orientation of many of the gold bearing zones in the White Gold district, including the Golden Saddle deposit at White Gold, several zones at Goldcorp's Coffee deposit, and the VG zone on the QV property of Comstock Metals Ltd.

The 2011 to 2012 soil geochemical surveys by Geo Zone Exploration Limited on the Loonie Project outlined another gold in soil anomaly (Peso), a copper-molybdenum \pm gold soil anomaly (SE Peso-Guilder) and a reconnaissance lead-zinc-copper \pm gold soil anomaly in the southern property area.

The Peso anomaly covers a 2 by 1.7 km gold-tungsten \pm antimony soil anomaly in the northern property area, with a maximum value of 404.3 ppb Au and anomalous copper at its southern end, which may be continuous, or associated with, the 2 by 1 km easterly trending Guilder copper-molybdenum \pm gold soil anomaly 1 km to the south, with maximum values of 920 ppm Cu. The LZ Cu copper showing, containing 0.11% Cu in a grab sample of malachite and

chalcocite bearing schist, was discovered east of the Peso anomaly, further suggesting an association between the southeastern Peso and the Guilder anomalies.

The Guilder copper-molybdenum ±gold soil anomaly at Loonie lies 10 km northwest of, and along the same mineralized northwest trending magnetic lineament hosting, Lucky Joe, a copper-gold porphyry drilled prospect owned by Golden Predator Mining Corp. A metal zonation has been identified at Lucky Joe, with the central portion of the mineralized system being enriched in copper, gold, silver and molybdenum (*Hulstein, 2003*). Historic drilling on the Lucky Joe Project has identified copper grades from 0.35% Cu to 0.6% Cu over intervals of 20 to 30m (maximum 0.95% Cu over 5.2m) in the 800m by 200m by 30m main mineralized zone, in which gold generally exhibits a 1:1 correlation with copper (*Deklerk, 2009*). Drilling along the 11.3 km long Lucky Joe copper-gold soil trend intersected 0.135% Cu and 0.032 g/t Au over 74.1m in DDH LJ05-03 (*Deklerk, 2009*). The author has not been able to independently verify the above information and it is not necessarily indicative of the mineralization on the Loonie Project which is the subject of this report. The Three Bears anomalous copper soil trend on the Lucky Joe (LJ) property is shown to extend almost to the Guilder zone (*Hulstein, 2003*).

At the Peso anomaly a highly silicified outcrop of brecciated quartzite carries anomalous gold (212 ppb). The brecciated quartzite, which is locally graphitic, variably silicified and locally contains anomalous zinc, antimony and molybdenum, may represent a thrust fault at the base of the Mississippian orthogneiss. A similar breccia, thought to represent a thrust, occurs just west of the Golden Saddle deposit on the White Gold Project of White Gold Corp., and is silicified and gold bearing at the Arc zone, just south of Golden Saddle.

A lead-zinc-copper soil anomaly with peripheral gold at Loonie, south of Lucky Joe Creek, is also suggestive of volcanogenic massive sulphide type mineralization which was discovered within the White Gold district on the Touleary property near Thistle Mountain in 2011 by Arcus Development Group Inc., returning 14.15m of 1.44% Cu, 16.5 g/t Ag and 0.77 g/t Au and 2.25m of 7.18% Cu, 116 g/t Ag, 3.55 g/t Au and 4.30% Zn (*Arcus news release, October 4, 2011*).

The deposit types for the Loonie Project are the orogenic vein (Golden Saddle, the VG zone at QV and Goldcorp's Coffee deposit), as well as metamorphosed copper-gold porphyry (Lucky Joe) and possible volcanogenic massive sulphide (Touleary).

The Loonie Project constitutes a property of merit based on favourable geological setting (White Gold district), geology (Permian to Mississippian orthogneiss, amphibolite and metasedimentary rocks of the Yukon-Tanana terrane, intruded by a younger intrusion), geophysical signature, gold and copper soil anomalies, significant trench and drill intercepts on the Lira zone, similarities and proximity to the Golden Saddle deposit of White Gold Corp. and other significant gold discoveries within the White Gold district, and similarities and proximity to the Lucky Joe copper-gold porphyry drilled prospect, 10 km to the southeast.

A two phase exploration program is recommended with a Phase 1 budget of \$215,000, consisting of additional soil grids in the Lira and southern property area, and IP geophysics and GTprobe (bedrock interface) lines in the Peso area. Phase 1 will also include a detailed integration and interpretation of the Lira drill data to determine the controls and configuration of the Lira vein system to guide continued drilling and detailed mapping and prospecting in select areas. Contingent on results from Phase 1, a \$500,000 Phase 2 drill budget is proposed to follow up the significant drill and trench intersections on the Lira zone with 1500m of diamond drilling in 6 holes, and to follow up significant soil results from the Lira and/or significant GTprobe and geophysical anomalies on the Peso from the Phase 1 program with 600m of RAB drilling in 6 holes.

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2.0 INTRODUCTION AND TERMS OF REFERENCE

2.1 Qualified Person, Participating Personnel and Scope

Ms. Jean M. Pautler, P.Geo. of JP Exploration Services Inc. (JPEx), was commissioned by White Gold Corp., a company duly incorporated under the laws of the Province of Ontario, to participate in and document the 2017 exploration program on the Loonie Project (consisting of the Loonie 1 to 155 & 157 to 500 claims) and to make recommendations for the next phase of exploration work in order to test the resource potential of the property. Based on the literature review and property examination recommendations are made for the next phase of exploration work. An estimate of costs has been made based on current rates for trenching, soil and geophysical surveys, drilling and professional fees in the Yukon Territory. The program was funded by White Gold Corp. and completed by GroundTruth Exploration Inc. of Dawson City, Yukon. This report was prepared to support assessment filing requirements by White Gold Corp.

The report describes the 2017 exploration program on the property, historical information, a review of recent exploration in the area, a site visit on September 3, on behalf of White Gold Corp., following their 2017 exploration program, and a detailed review of previous exploration work conducted on the property. The 2017 program consisted of a 146 line km DIGHEM airborne geophysical survey over the Peso and Lira zones, an aerial drone survey over the Peso and Guilder zones, 1,460m of GTprobe (bedrock interface) sampling and 1,970m of rotary air blast drilling in 30 holes on the Lira zone in 2017. Only the rotary air blast drilling is being filed for assessment purposes. Previous work by White Gold Corp. consisted of a structural and lithological analysis on the Lira zone in 2016 in preparation for drilling. Geo Zone Exploration Limited completed soil geochemical and geophysical surveys, trenching, and an aerial drone survey and initial RAB drilling over the Lira zone with minor mapping and prospecting from 2011 to 2014.

2.2 Terms, Definitions and Units

All costs contained in this report are denominated in Canadian dollars. Distances are reported in metres (m) and kilometres (km). GPS refers to global positioning system with co-ordinates reported in UTM grid, Zone 7, Nad 83 projection. Minfile showing refers to documented mineral occurrences on file with the Yukon Geological Survey. The annotation 020°/55°E refers to an azimuth of 020°, dipping 55° to the east. Ma refers to a million years in geological time.

RAB refers to rotary air blast, a type of percussion drilling. TMI refers to total magnetic intensity and ELF refers to an extremely low frequency type of geophysical survey. TMI refers to total magnetic intensity, and DIGHEM to a frequency domain electromagnetic type of airborne geophysical survey useful in the detection of conductors. IP refers to an induced polarization type of geophysical survey useful in detecting disseminated conductive sulphides.

The term ppm refers to parts per million, which is equivalent to grams per metric tonne (g/t) and ppb refers to parts per billion. The abbreviation oz/ton and oz/t refers to troy ounces per imperial short ton. The symbol % refers to weight percent unless otherwise stated.

Element abbreviations used in this report include gold (Au), silver (Ag), copper (Cu), arsenic (As), antimony (Sb), tellurium (Te), bismuth (Bi), mercury (Hg), lead (Pb), and zinc (Zn). Minerals found on the property include pyrite (iron sulphide), limonite (hydrated iron oxide), malachite (hydrated copper carbonate), chalcocite (copper sulphide) and visible gold. K-spar refers to potassium feldspar.

2.3 Source Documents

Sources of information are detailed below and include available public domain information and private company data.

- Research of the Minfile data available for the area at <http://data.geology.gov.yk.ca> on September 15, 2017.
- Research of mineral titles at <http://www.yukonminingrecorder.ca>, <http://mapservices.gov.yk.ca/YGS/> and <http://apps.gov.yk.ca/ymcs> on September 15, 2017.
- Review of company reports and annual assessment reports filed with the government at <http://virtua.gov.yk.ca:8080/?theme=emr>.
- Review of geological maps and reports completed by the Yukon Geological Survey or its predecessors.
- Review of published scientific papers on the geology and mineral deposits of the region and on mineral deposit types.
- Review of pertinent news releases of, and publicly available data on, White Gold Corp.
- Company data of White Gold Corp., including a review of the entire 2016-2017 exploration program, and option agreement. The option agreement is discussed in Section 4.2, "Land Tenure".
- A site visit on September 3, 2017, following the latest exploration program on the property and examinations of, and work conducted on, the property by the author on October 4, 2016, September 17-18, 2014, and June 29 to July 1, August 11 & 13 and September 22, 2012.
- The author has recent previous independent experience and knowledge of the area having conducted exploration, including property examinations, within the White Gold district in 2009 to 2017, property and regional exploration for Teck Exploration Ltd. in 1993 and 1998 to 2000, and prior experience conducting regional exploration with Kerr Addison Mines in the area from 1983 to 1987. The author has examined the White Gold, QV and Coffee deposits, and the Jua/Ten, Dime, Rosebute and Lucky Joe Projects.

2.4 Limitations, Restrictions and Assumptions

The author has relied in part upon work and reports completed by others in previous years in the preparation of this report as identified under Section 2.3, "Source Documents" and Section 15.0, "References". The author has assumed that the previous documented work on the property and in the region is valid and has not encountered any information to discredit such work. Thorough checks to confirm the results of such work and reports have not been done. Unless otherwise stated the author has not independently confirmed the accuracy of the data. Exploration assessment reports, listed in Section 15.0, "References", were completed by competent professionals and/or reputable prospectors and have been accepted by the Mining Recorder.

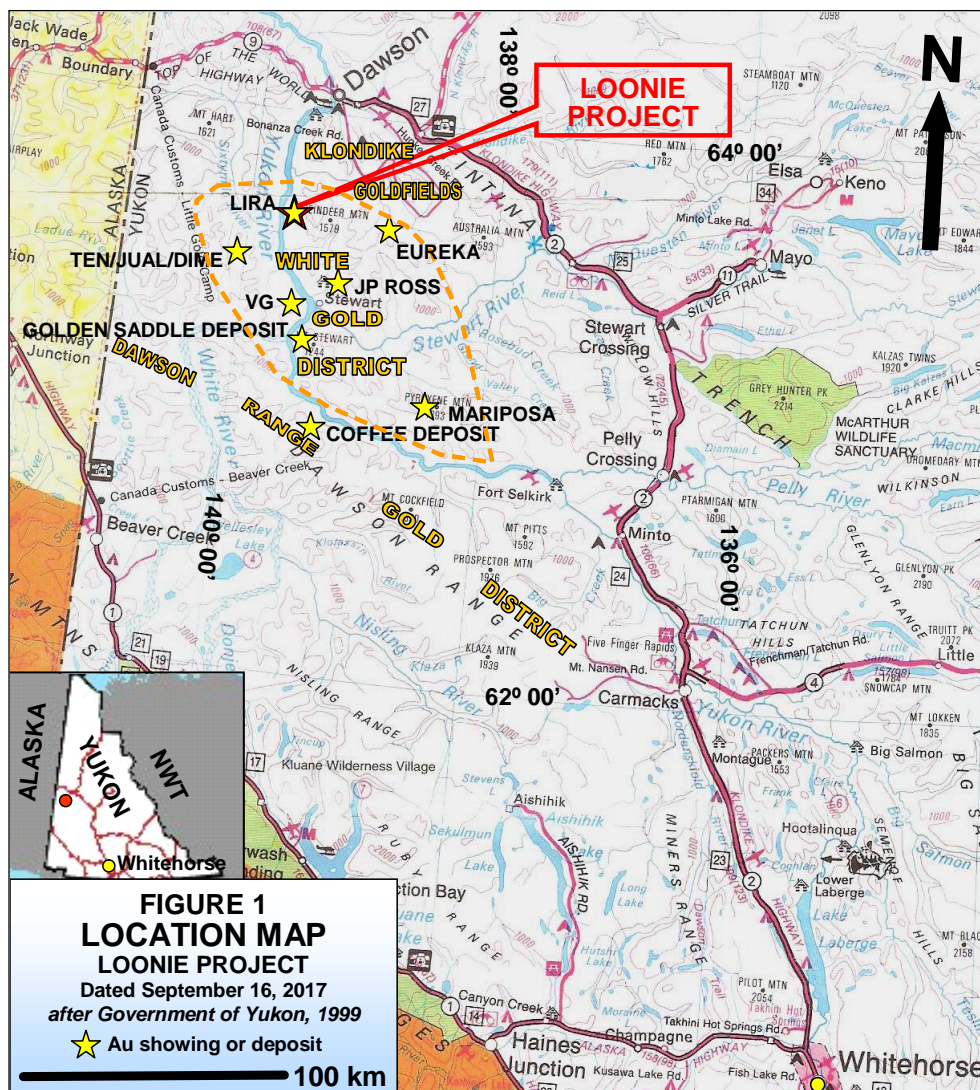
3.0 RELIANCE ON OTHER EXPERTS

While title documents and the option agreement were reviewed for this study as identified under Section 2.3, “Source Documents” and Section 15.0, “References”, this report does not constitute nor is it intended to represent a legal, or any other, opinion as to the validity of the title. The title and option information was relied upon to describe the ownership of the property, claim summary and property ownership in Section 4.2, “Land Tenure”.

4.0 PROPERTY DESCRIPTION AND LOCATION

4.1 Location (Figure 1)

The Loonie Project, NTS map sheet 1150/12 is located approximately 50 km south of Dawson City, Yukon Territory (Figure 1). Dawson City is 538 km by paved highway north of Whitehorse, Yukon Territory (Figure 1). The property is centered at a latitude and a longitude of 63°38'N, 139°42'W.



4.2 Land Tenure (Figures 2 and 3)

The Loonie Project consists of 499 Yukon Quartz Mining claims covering an area of approximately 10,430 hectares in the Dawson Mining District (*Figures 2 and 3*). The area is approximate since claim boundaries have not been legally surveyed. The mineral claims were located by GPS and staked in accordance with the Yukon Quartz Mining Act on claim sheet 115O/12, available for viewing in the Dawson Mining Recorder's Office. A table summarizing pertinent claim data follows.

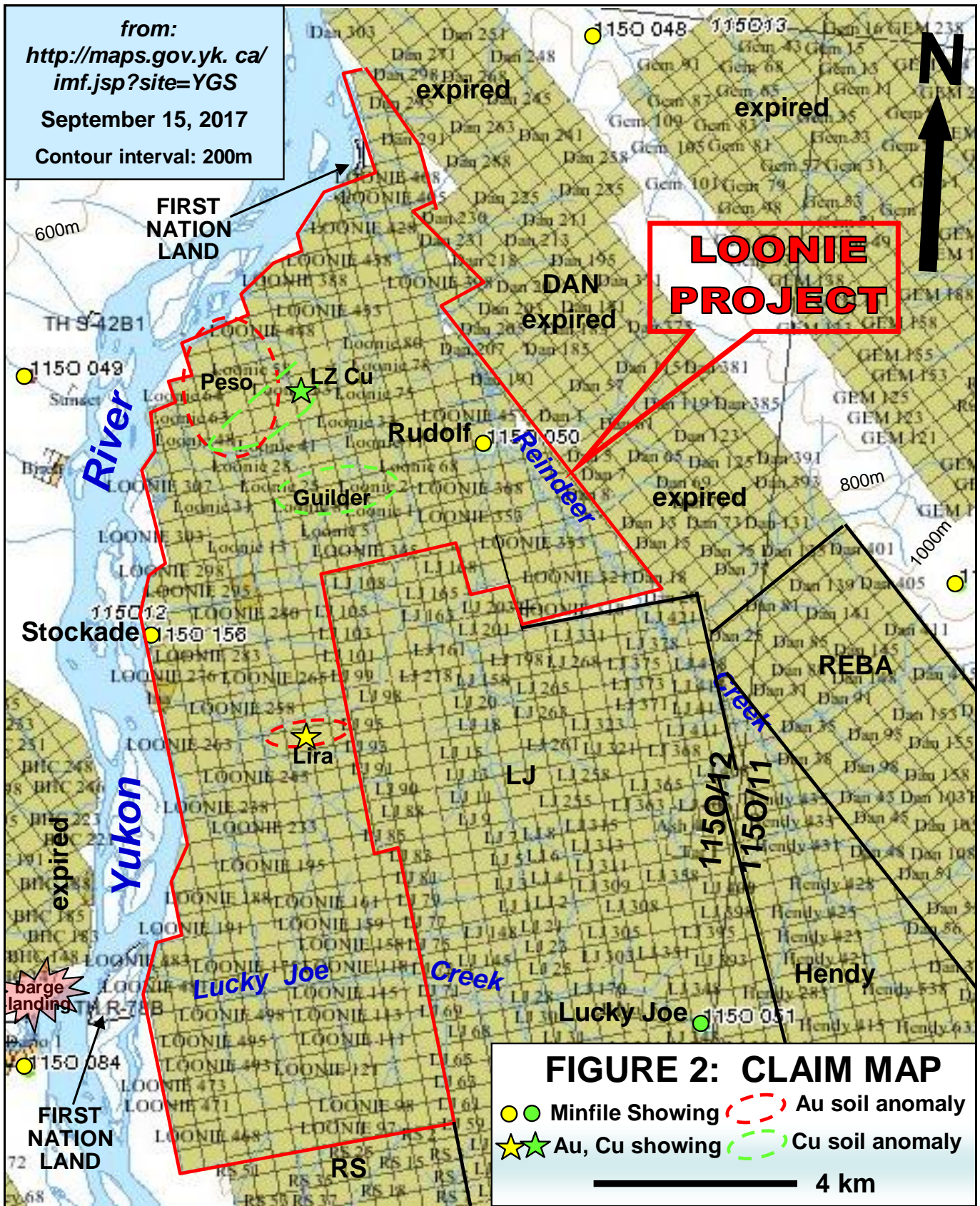
TABLE 1: Claim data

Claim Name	Grant No.	No. of Claims	Expiry Date
Loonie 1-80	YD88741-YD88820	80	04/04/2019
Loonie 81-155, 157-204	YD130689-763, 765-812	123	04/04/2018
Loonie 205-300, 301-14, 341-3,5,7,9	YD130813-908, YE19951-64, 991-3,5,7,9	116	04/04/2019
Loonie 315-340, 344,46,48	YE19965-990, 94,96,98	29	04/04/2018
Loonie 351, 387-392	YE20001, YE20037-042	7	04/04/2019
Loonie 350, 352-386, 393-418	YE20000, 002-036, YE20043-068	62	04/04/2018
Loonie 419,21,3,5,7,429, 431-454	YE20069,71,3,5,7,079, YE20081-104	30	04/04/2019
Loonie 420,2,4,6,8,430, 455-500	YE20070,2,4,6,8,80, YE20105-150	52	04/04/2018
TOTAL		499	

The Loonie 1 to 155 and 157 to 500 claims (no Loonie 156) are registered to (*website at <http://gysde.gov.yk.ca>*) and 100% owned by White Gold Corp., Ontario. The claims were acquired from Shawn Ryan and Wildwood Explorations Inc. (Wildwood) (the optionors) through an option to purchase agreement as part of a much larger package of claims within the White Gold district, Yukon Territory. The agreement, dated October 27, 2016 (Effective Date), between G4G Capital Corp. (name changed to White Gold Corp. on December 22, 2016), and the optionors was accepted for filing by the TSX Venture Exchange. The agreement is available in the office of White Gold Corp. The option to purchase has been exercised by White Gold Corp. (*December 22, 2016 news release at www.whitegoldcorp.ca*) and terms of the purchase have been fully met.

The optionors and a related party will each retain a 1% net smelter royalty over the properties (combined total of 2%) and any quartz mining claim staked by the company in an area of influence around the properties during the five year period following the date of the option to purchase agreement.

The Loonie Project is located within the Traditional Territory of the Tr'ondëk Hwëch'in First Nation. First Nations have settled their land claims in the area, with four small parcels of First Nations surveyed land (TH R-78B, TH S-10B 1, TH S-77B1 and TH S-174B), with surface rights only (Category B land), located on the western portions of the Loonie Project along the Yukon River (*Figures 2-4*).



TH R-78B and TH S-10B1 occur in the vicinity of Ogilvie Island on portions of the Loonie 481 and 483 claims (Figure 3), and TH S-77B and TH S-174B occur at the mouth of Reindeer Creek, overlapping portions of the Loonie 407 and 429 and 463 claims (Figure 4). The land claims are located on the margins of the Loonie Project 4-5 km from, and not along trend of, any known mineralization. White Gold Corp. does not intend to undertake any exploration activity on the Category B lands. No significant First Nation or other concerns are anticipated. The remainder of the land in which the mineral claims are situated is Crown Land and the mineral claims fall under the jurisdiction of the Yukon Government. Surface rights would have to be obtained from the government if the property were to go into development.

A mineral claim holder is required to perform assessment work and is required to document this work to maintain the title as outlined in the regulations of the Yukon Quartz Mining Act. The amount of work required is equivalent to \$100.00 of assessment work per quartz claim unit per year. Alternatively, the claim holder may pay the equivalent amount per claim unit per year to the Yukon Government as “Cash in Lieu” to maintain title to the claims.

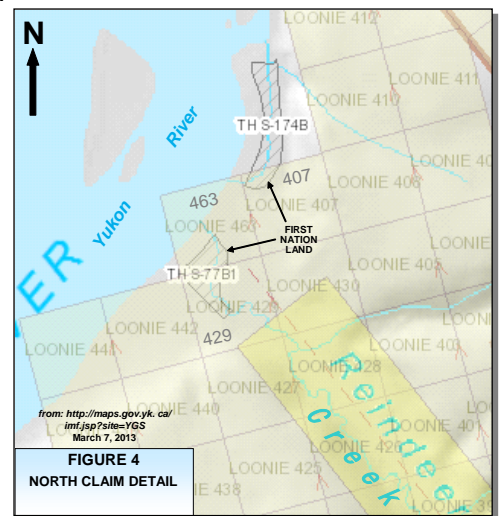
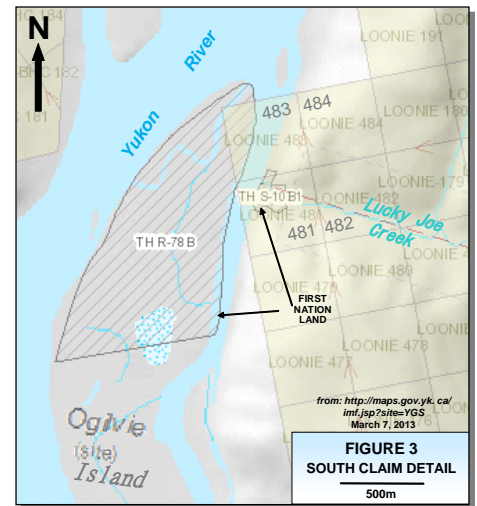
Preliminary exploration activities do not require permitting, but significant drilling, trenching, blasting, cut lines, and excavating may require a Mining Land Use Permit that must be approved under the Yukon Environmental Socioeconomic Assessment Act (YESSA). Previous work by Geo Zone was undertaken under a Class III permit, number LQ00393. The 2017 program was undertaken under a Class I permit and additional permitting will be applied for as needed. To the author’s knowledge, the Loonie Project area is not subject to any environmental liability.

5.0 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY (Figures 1 to 3)

5.1 Access, Local Resources and Infrastructure

The property is accessible via helicopter from Dawson City, 50 km north of the property (Figure 1). Dawson City is accessed by year-round highway approximately 538 km north of Whitehorse, Yukon. Daily flight service is also available from Whitehorse to Dawson City.

A suitable road accessible staging area occurs 15-20 km northeast of the property along the Indian River at the mouth of Bertha Creek at approximately 573380mE,



7073830mN, Nad 83, Zone 7. The site is accessible via the French Gulch road from the Bonanza Creek Road, which is accessed from the Klondike Highway at Guggieville. Other staging areas include the recently refurbished Lammers airstrip (*Figure 3*), which is located at approximately 7046980mN, 554360mE, Nad 83, Zone 7, at the mouth of Ten Mile Creek, approximately 10 km west of the Loonie claims, and accessible by fixed wing aircraft from Dawson City. There is barge access along the Yukon River to the mouth of the Sixty Mile River, 2 km west of the Loonie Project on the opposite side of the Yukon River (*Figure 2*).

Water is available from west to northwesterly flowing tributaries of the Yukon River including Reindeer and Lucky Joe Creeks and their tributaries.

Dawson City is the closest town of significant size, with a population of approximately 2020, but draws some 60,000 visitors each year. Facilities include an airport, with regular air service from Whitehorse, Yukon Territory and Fairbanks, Alaska, two helicopter bases, a hospital, police station, service stations, two grocery stores, accommodation and restaurants. Industrial services include tire repair, propane sales, welding and machine shops, heavy equipment repair and rental, a lumber mill, and freight and trucking companies. Heavy equipment and a mining oriented labour force are available for contract exploration and mining work. Main industries are tourism and gold mining. More complete facilities and a larger mining oriented labour force are available in Whitehorse.

5.2 Physiography, Climate and Infrastructure

The Loonie Project extends southwards from Reindeer Creek to beyond lower Lucky Joe Creek, east of the Yukon River, covering rolling hills with smooth ridges and deep narrow valleys within the unglaciated Yukon Plateau (*Figures 1-3*). The area is drained by west to northwesterly flowing tributaries of the Yukon River including Reindeer and Lucky Joe Creeks and their tributaries. Elevation ranges from just below 1100 feet along the Yukon River locally to 3100 feet on peaks in the eastern property area (*Figure 2*). Vegetation is typical boreal forest consisting of white spruce, birch and poplar on well-drained slopes and black spruce on poorly drained frozen north facing slopes. The northern portion of the property was burned in 1999 and the southern property area in 2004.

The area has a northern interior climate characterized by a wide temperature range with warm summers, long cold winters and light precipitation. Summers are warm, with daily averages in July of 23°C dropping to 8°C at night. Winters are cold, with January temperatures of -22.5°C during the day, dropping to an average of -31°C overnight and -45°C is not uncommon. Annual precipitation averages about 325 millimetres, including close to 200 mm of rain and 160 mm of snow. The exploration season lasts from late May until October.

Although there do not appear to be any topographic or physiographic impediments, and suitable lands appear to be available for a potential mine, including mill, tailings storage, heap leach and waste disposal sites, engineering studies have not been undertaken and there is no guarantee that areas for potential mine waste disposal, heap leach

pads, or areas for processing plants will be available within the subject property. The nearest source of hydro-electric power is Dawson City.

6.0 HISTORY (Figures 2, 5 and 6)

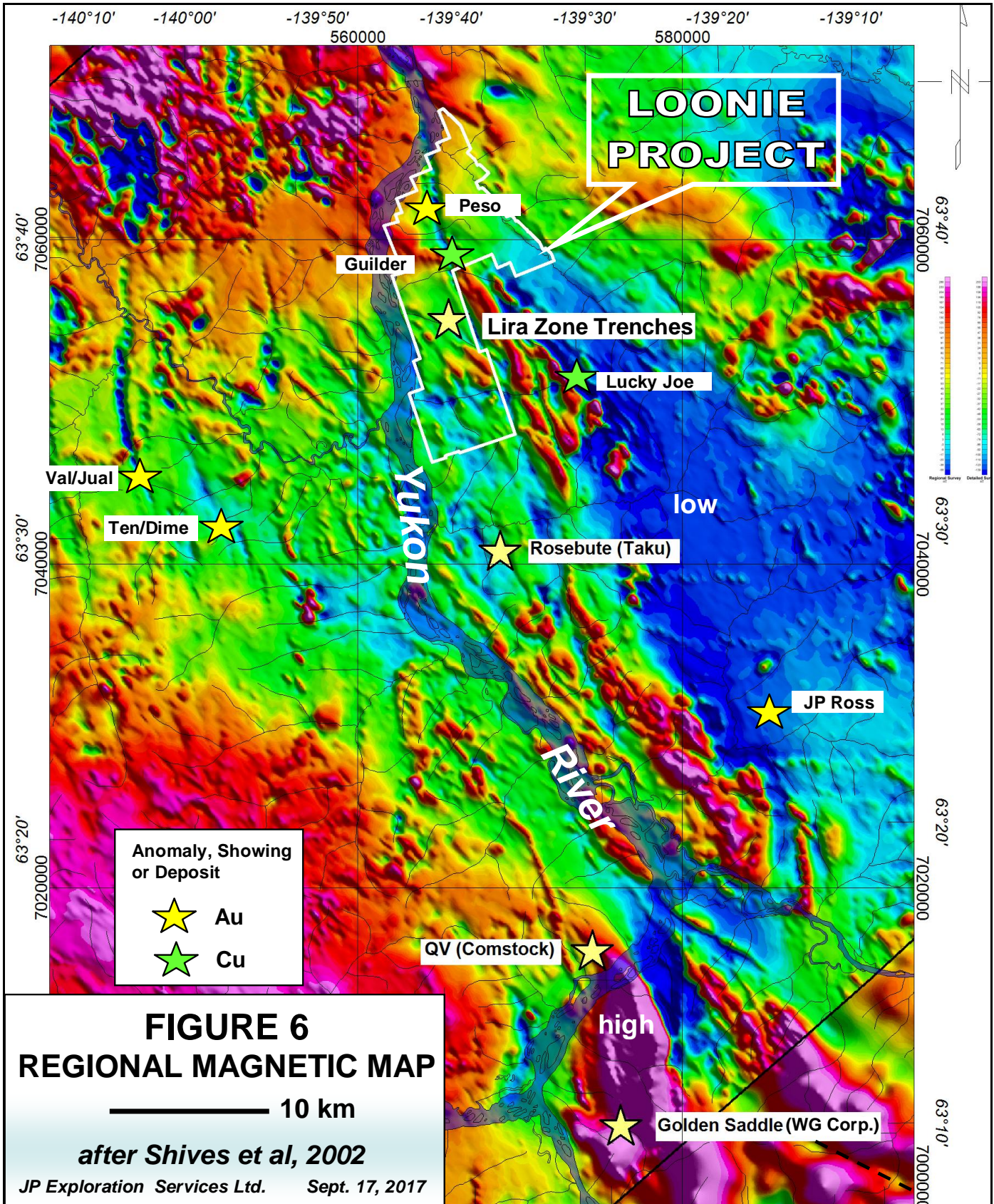
The Loonie Project covers the Rudolf and Stockade Minfile occurrences (Minfile Numbers 115O 050 and 156), as previously documented by the Yukon Geological Survey (*Deklerk, 2009*) (*Figures 2 and 5*). There is virtually no information about the original occurrences. The Rudolf was staked by J.S. Bay as the May and Hidden Treasure in June, 1899 and as the Golden Star claim in August, 1899, possibly to cover quartz veins (*Deklerk, 2009*). Quartz veins are reported 5 km upstream from the mouth of Reindeer Creek, corresponding to the Rudolph location, but with little or no gold mineralization (*Hermanutz, 1996*). Old placer pits are reported here and fine garnet, magnetite, pyrite and minor fine gold have been panned (*Bryde, 1992*). The Stockade was staked as the MC Stockade claim by F. Stretch in August, 1992, probably in conjunction with placer activity (*Deklerk, 2009*).

Eleven stream sediment samples from the Yukon Regional Geochemical Database are located on the Loonie property (*Heon, 2003*). Anomalous values include a 97th percentile copper silt anomaly (44 ppm) from the outlet of Reindeer Creek in the northern property area, 35 ppm Cu from the mouth of Lucky Joe Creek, and 32 ppm Cu from a small tributary east of a granitic stock. A 93rd percentile gold silt anomaly (13 ppb) was collected at the mouth of the unnamed creek that flows into the Yukon River just north of a granitic stock. (*Refer to Figure 5.*)

A regional airborne magnetic/radiometric survey flown by the Geological Survey of Canada (*Shives et al., 2002*) identified a prominent northwest trending magnetic structure extending through the Lucky Joe porphyry copper-gold prospect, which continues onto the Loonie property (*Figure 6*).

There is little previous work documented in Yukon Minfile (*Government of Yukon, 2017*), various government publications of the Yukon Geological Survey or its predecessor (*Mineral Industry Reports and Yukon Exploration and Geology*) and the Geological Survey of Canada, and company publications (primarily available as assessment reports filed with the government) on the Loonie Project prior to the acquisition by Shawn Ryan/Wildwood in 2010. Approximately 70 reconnaissance ridge and spur soil samples were collected from the Guilder grid area by Kennecott Canada Exploration Inc. in 2003 in conjunction with their work on the Lucky Joe copper-gold drilled prospect, yielding two values greater than 140 ppm Cu (*Hulstein, 2003*).

The Loonie Project was staked by Shawn Ryan (70%)/Wildwood (30%) in 2010 and subsequently optioned to Geo Zone Exploration Limited (Geo Zone) in February, 2011, which undertook exploration from 2011 to 2014, discussed below. The locations of the occurrences, known mineralized zones and important natural features are shown in Figures 2 and 5 in relation to the outside property boundaries.



The 2011 to 2012 programs by Geo Zone consisted of the collection of 6,353 soil samples (4,064 in 2011), 1925m of trenching in 17 trenches, 150 line kilometres of ground magnetic surveying, 80.1 line kilometres of ground ELF geophysical surveying, 0.54 line kilometres of induced polarization surveying and local prospecting with concurrent mapping by the author over the Peso, Guilder and Lira zones. The program identified the Peso and Lira gold soil anomalies and the Guilder copper soil anomaly (*Figure 7*). Trenching on the Lira zone defined a 400m long 070° trending zone of gold mineralization with trench results of 13.3 g/t Au over 10m, 1.61 g/t Au over 15m and 3.8 g/t Au over 5m, accompanied by anomalous silver, bismuth, tellurium and mercury and open to the west. No work was undertaken in 2013.

Geo Zone's 2014 program consisted of drone aerial photography, 5.4 line km of induced polarization geophysics, followed by 613m of RAB drilling in 8 holes over the Lira zone. The drill program, which only tested a 230m strike extent of the 740m long Lira gold in soil anomaly, open to the west, extended the 400m long, 070° trending zone of gold mineralization defined by trenching, an additional 50m to the west. Drill intercepts include 4.93 g/t Au over 12.2m, including 20.7 g/t Au over 1.5m in LOORAB14-01 and 0.90 g/t Au over 16.8m, including 2.11 g/t Au over 4.6m in LOORAB14-08.

All soil and trench samples were collected, and geophysical and drone surveys and RAB drilling undertaken, by GroundTruth Exploration Inc. Trenching was completed by Talus Exploration Inc., now merged with GroundTruth Exploration Inc., of Dawson City, Yukon. The drill program will be discussed in detail under Section 9.4, "Drilling". The geochemistry, geophysics and trenching will be discussed under their respective sections below.

6.1 Geochemistry (Figures 7 to 9)

At least 6,430 soil samples have been collected from the Loonie Project area, with 2,747 ridge and spur, 3,676 grid and about 7 reconnaissance soils documented. Soils cover about 25% of the property.

In 2011 GroundTruth Exploration Inc. of Dawson City, Yukon, collected 2,677 ridge and spur soil samples and 1,387 grid soils. The ridge and spur soil samples were collected across the entire property at a 50m sample spacing and the grid soils were collected from three separate grids (Peso, Lira and Guilder), based on anomalous gold results from the ridge and spurs, at a 50m sample spacing on lines spaced 100m apart. An additional 2,289 grid soil samples were collected in 2012, consisting of grid extension, infill and smaller mini-grids and creek bank soils. All grid samples were collected at a 50m sample spacing on north trending lines spaced 100m apart, except for infill grid samples which were collected at a 25m sample spacing on lines spaced 50m apart.

All soil samples were collected from the C-B horizons with one meter soil augers, or with a mattock where necessary, depending on vegetative cover and the thickness of the organic horizon. Approximately 400-500 grams of soil were collected and placed in well marked pre-numbered Kraft soil bags. Sample stations were marked on the ground with an aluminum metal tag in 2011 and a plastic bar coded tag in 2012, along with pink flagging. Sample locations were recorded by GPS in the field using UTM coordinates, Nad 83 datum, Zone 7 projection and pictures taken of each sample and sample site. A

total of 197 field soil duplicates (collected from the same site, but separate holes) were collected for quality control from 2011 to 2012.

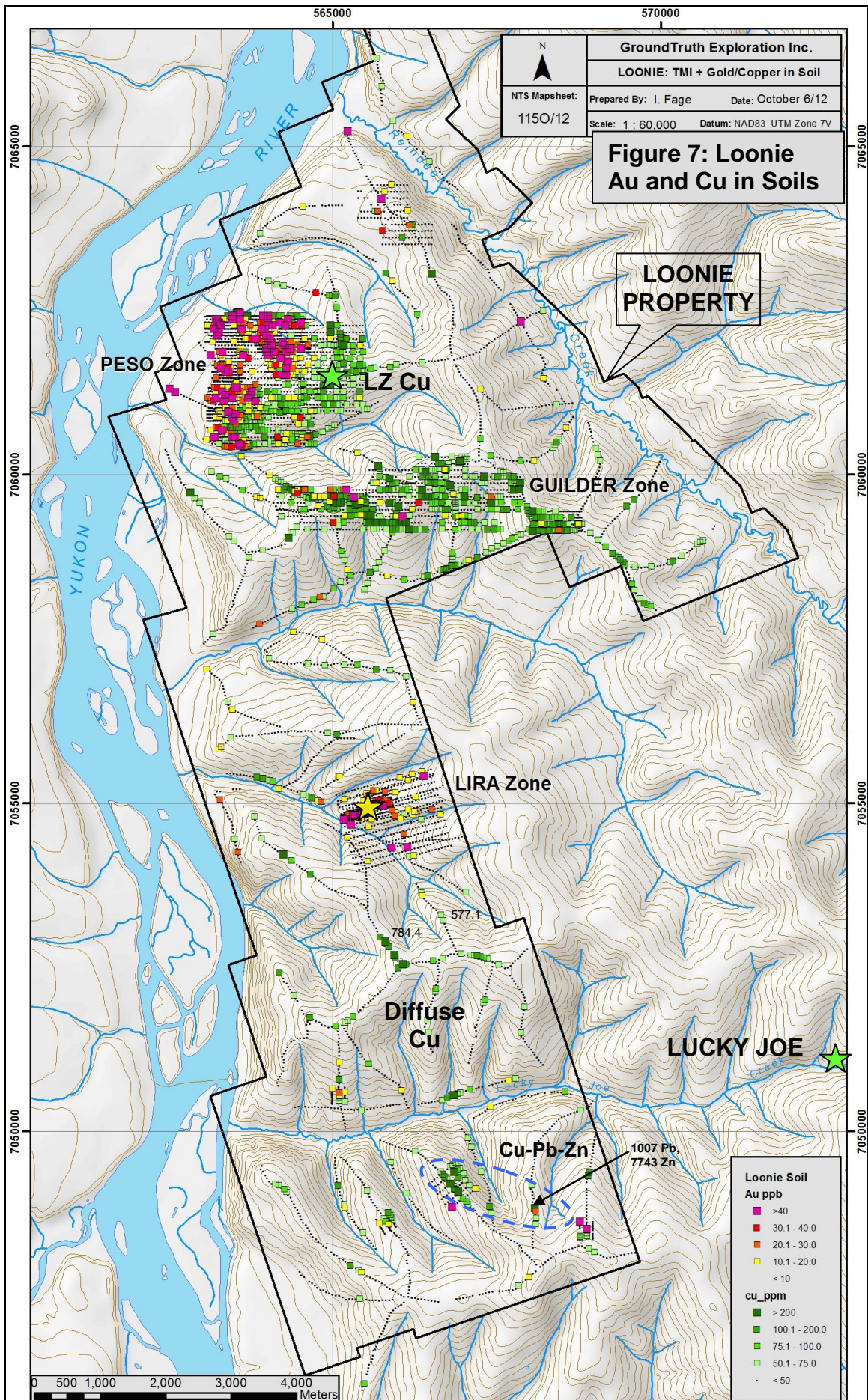
The ridge and spur and initial grid soil surveys completed in 2011 delineated two significant gold anomalies, a 2 by 1.7 km gold \pm antimony anomaly (Peso), with a maximum value of 216.6 ppb Au and anomalous copper at the southern end, in the northern property area, and a 75 by 740m east-northeasterly trending gold anomaly (Lira), with a maximum value 156.9 ppb Au, in the central property area. A 2 by 1 km easterly trending copper \pm gold anomaly (Guilder) was defined in the northern property area, 1 km south of the Peso gold anomaly and 10 km along strike of the Lucky Joe porphyry copper-gold prospect. (*Refer to Figure 7.*)

Grid extension and infill sampling in 2012 returned a maximum gold value of 404.3 ppb Au from the Peso anomaly (*Figure 8*). Infill sampling of a 250m long low order soil anomaly (maximum 156.9 ppm Au) within the Lira anomaly identified a 460m long east-northeasterly trending zone of anomalous soils, including values of 753.8, 2622.9, 3700.1, 919.2, 790.6 and 1037.5 ppb Au (*Figure 10*). This is the orientation of many of the gold bearing zones in the White Gold district, including the Golden Saddle deposit at White Gold, several zones at Goldcorp's Coffee deposit, and the VG deposit on the QV property of Comstock Metals Ltd. The anomaly was not initially defined due to the east-west line orientation, sub-parallel to the orientation of the zone.

At the Peso grid there is a sharp break between gold bearing soils to the northwest and copper bearing soils to the southeast (*Figure 8*). The gold (maximum 404.3 ppb) corresponds to anomalous tungsten. The southeastern half of the Peso soil anomaly displays the same geochemical signature (copper, molybdenum, bismuth, nickel, iron, lead, zinc, antimony, and lesser arsenic, \pm gold) as the Guilder copper anomaly (*Figure 9*) and may be continuous with the Guilder anomaly, which contains a maximum value of 920 ppm Cu. The antimony \pm arsenic in soil values extend slightly further northwest into the Peso gold anomaly.

A broad, diffuse (spotty) copper soil anomaly straddles lower Lucky Joe Creek, but includes values of 784.4 and 577.1 ppm Cu, 2.5 km north of Lucky Joe Creek and 2.5 km south of the Lira gold zone (*Figure 7*). A mini-grid, a further 4 km to the south, returned anomalous lead (maximum 247.7 ppm) and zinc (917 ppm) with anomalous copper (341 ppm), and a highly anomalous 1007.5 ppm Pb and 7743 ppm Zn from a ridge and spur 1 km further to the east, and anomalous gold to the south (*Figure 7*). The signature is suggestive of volcanogenic massive sulphide (VMS) type mineralization which was discovered within the White Gold district on the Touleary property near Thistle Mountain in 2011 by Arcus Development Group Inc., returning 14.15m of 1.44% Cu, 16.5 g/t Ag and 0.77 g/t Au (*Arcus news release, October 4, 2011*).

Approximately 53 reconnaissance rock samples were collected across the property by Geo Zone. Rock samples consisted of grab samples from quartz veins, veinlets, stringers, altered zones, breccias and pyritic or limonitic zones. The samples were placed in clear plastic sample bags and samples were located and recorded by GPS using UTM coordinates, Nad 83 datum, Zone 7 projection, numbered and secured in the field. No significant gold results were obtained except for in the Lira zone trenches. Malachite and chalcocite mineralization, hosted by quartz-feldspar-biotite schist was discovered in 2012 (LZ Cu showing) and returned 0.11% Cu with 6.1 g/t Ag (*Figure 7*).



563200

564000

564800

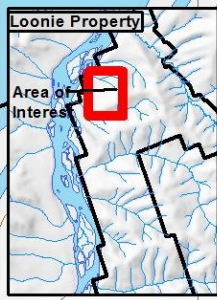
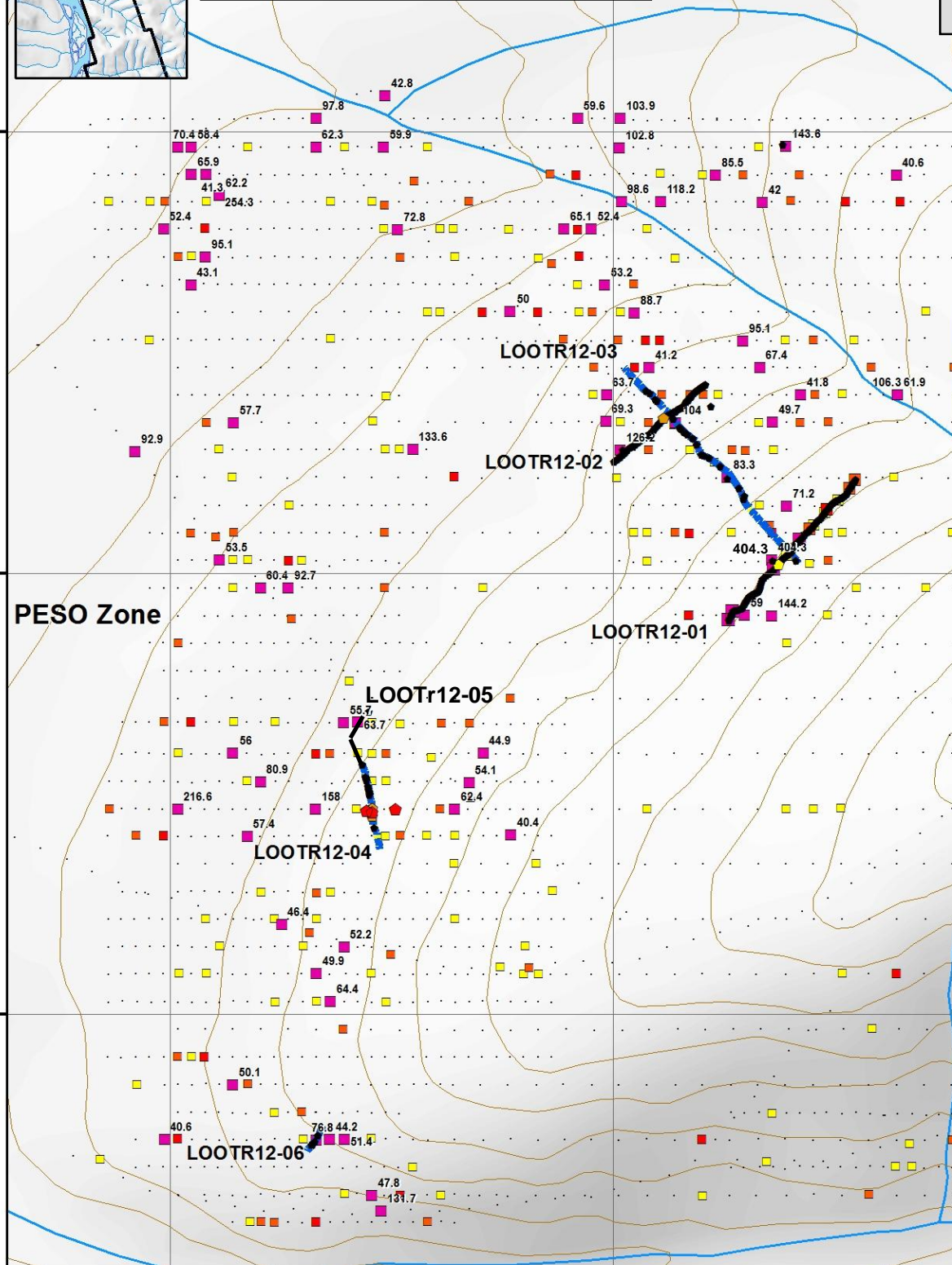


Figure 8 Peso Zone Trenches over Au Soils

 N NTS Mapsheet: 1150/12	GroundTruth Exploration Inc. LOONIE: Gold in Soil/Trench	
	Prepared By: I. Fage	Date: October 6/12
Scale: 1 : 10,000		Datum: NAD83 UTM Zone 7N

Figure 8

7062400
7061600
7060800



Loonie Rock Au ppb

- ◆ > 200
- ◆ 100.1 - 200.0
- ◆ 50.1 - 100.0
- ◆ 25.1 - 50.0
- ◆ < 25

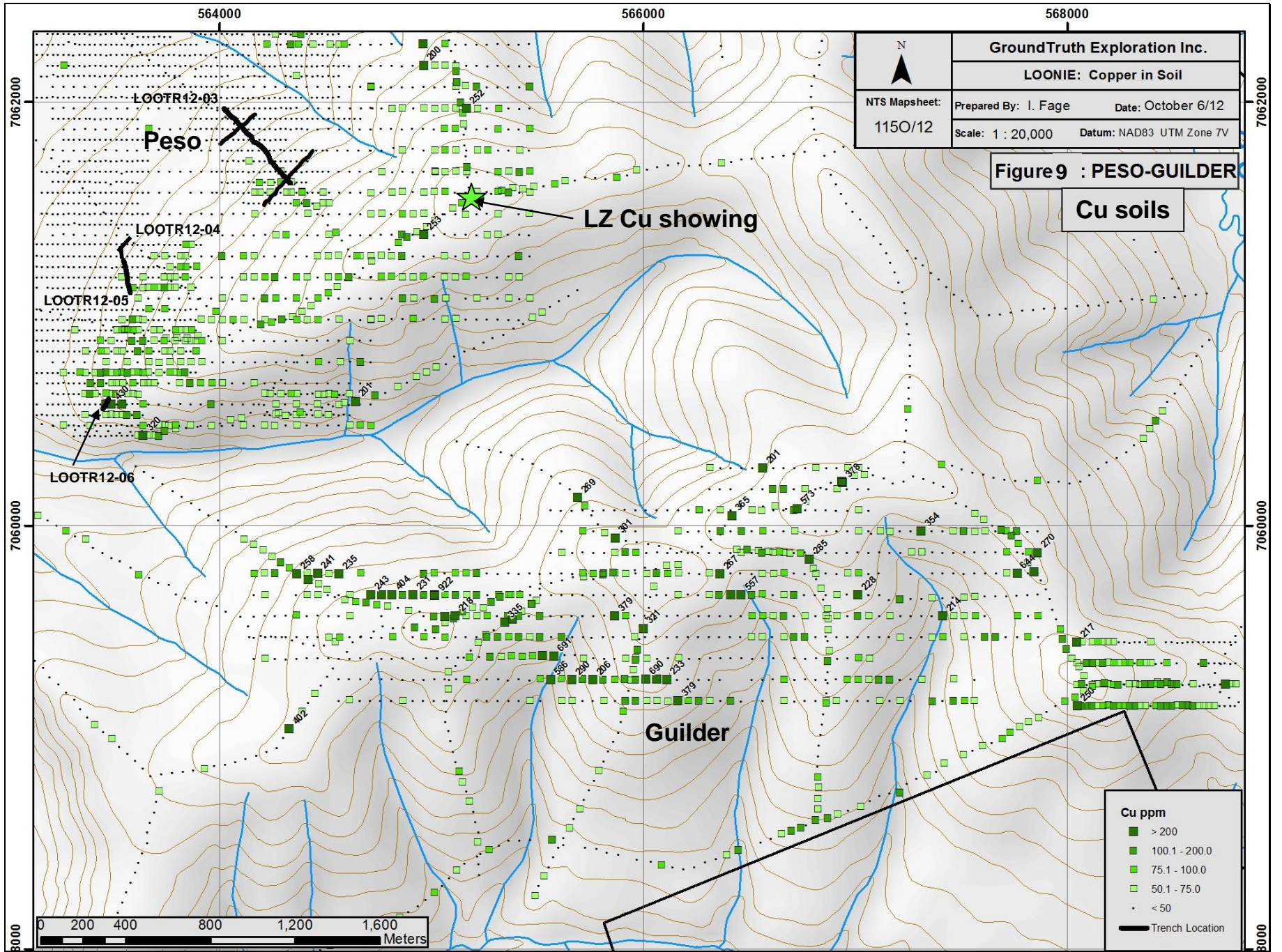
Loonie Soil Au ppb

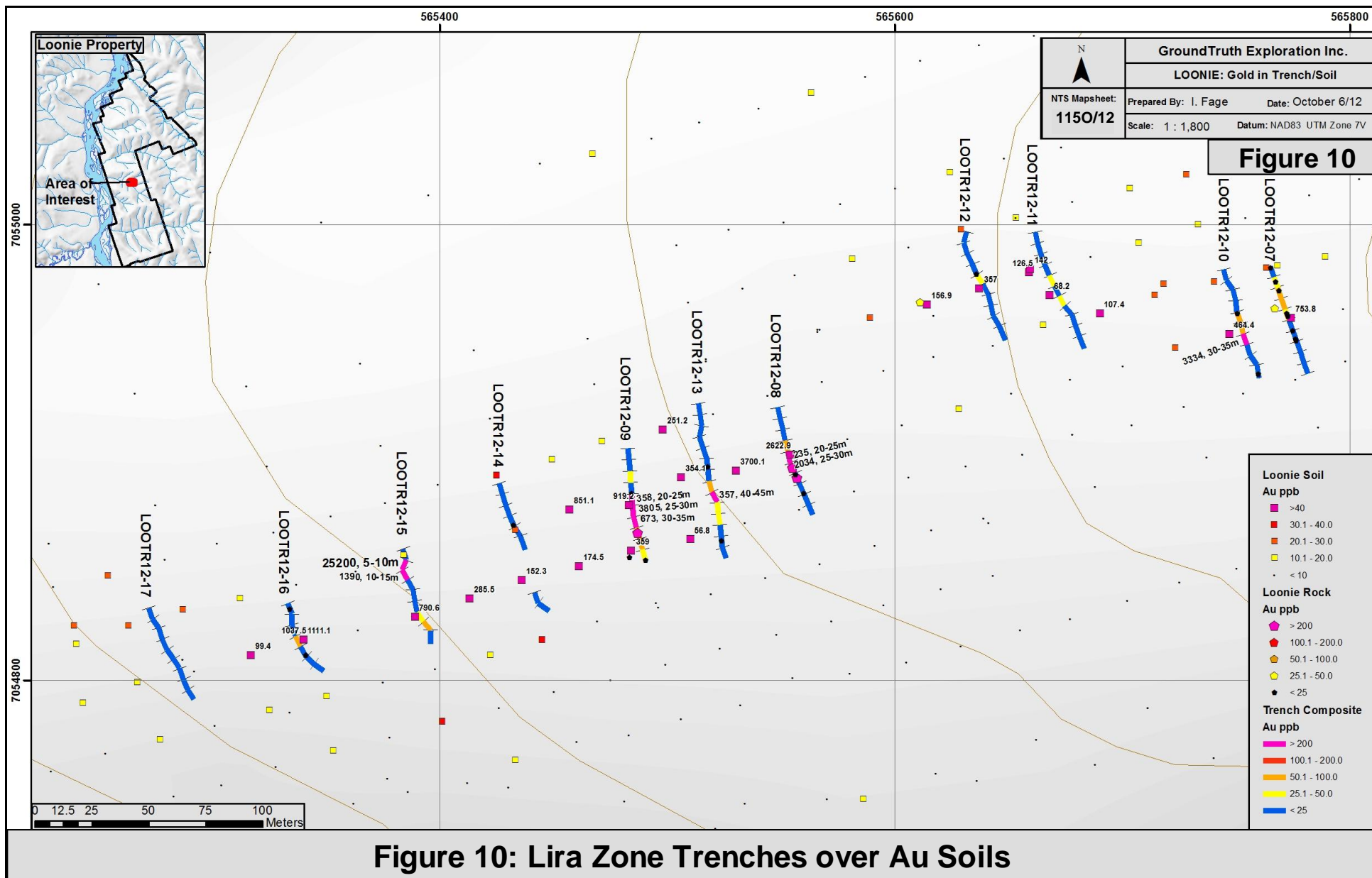
- > 40
- 30.1 - 40.0
- 20.1 - 30.0
- 10.1 - 20.0
- < 10

Trench Composite Au ppb

- > 200
- 100.1 - 200.0
- 50.1 - 100.0
- 25.1 - 50.0
- < 25







6.2 Trenching (Figures 8 to 10)

A total of approximately 1925m in 17 trenches was excavated in 2012 on the Loonie Project using a CanDig “Mining CD-21” excavator by Talus Exploration Inc. (now merged with GroundTruth Exploration Inc.), of Dawson City, Yukon for Geo Zone Exploration Limited. The trenches, approximately 50-100 cm deep, were excavated over soil geochemical anomalies obtained in the 2011-2012 surveys. Trenches TR12-01 and -02 were excavated as a series of pits across the trench line due to the trench line crossing the topography. A total of 425 bulk rock samples were collected from the trenches and an additional 105 soil samples were collected with 1m augers from the bottom of the pits along TR12-01 and -02, due to incomplete exposure along the trenches. Trench specifications are summarized in Table 2, below.

TABLE 2: Trench specifications

Trench Number	Nad 83 Easting	Zone 7 Northing	Az. (°)	Length (m)	Sample Number	No. of Samples
LOOTR12-01*	564439	7061773	223	352	1397051-77, 79-100, 102-150, 1397152-54, 156-57	103
LOOTR12-02*	564168	7061946	228	222	1399331-48, 51-400, 403-5	71
LOOTR12-03	564342	7061620	320	482	1397358, 60-84 1399251-56,58-60, 63-80, 1399282-300, 302-328	98
LOOTR12-04	563578	7061101	350	220	1399406-19, 22-39	32
LOOTR12-05	563562	7061355	218	50	overburden	0
LOOTR12-06	563477	7060595	207	53	1399451-62	12
LOOTR12-07	565782	7054936	343	50	1372552-61	10
LOOTR12-08	565548	7054926	168	50	13725562-71	10
LOOTR12-09	565476	7054901	166	50	13725572-82	11
LOOTR12-10	565741	7054983	157	51	1378828-37	10
LOOTR12-11	565659	7055003	158	56	1378814-22, 26-27	11
LOOTR12-12	565629	7054997	154	52	1378804-13	10
LOOTR12-13	565519	7054924	173	70	1378751-64	14
LOOTR12-14 †	565423	7054888	165	42.5	1378765-72	8
LOOTR12-15	565377	7054859	158	46	1378776-84	9
LOOTR12-16	565327	7054837	147	34	1378785-91	7
LOOTR12-17	565270	7054835	150	45	1378792-97, 801-3	9
TOTAL				1925.5		425

* series of pits excavated along trench line

† gap in Trench 14 from 31.5 to 46m

Trenches were measured out using a 30 or 100m tape and marked at 5m intervals with a plastic tag inscribed with the sample number at the halfway point within each interval. Samples, weighing approximately 4 kg over each 5m interval, consisted of approximately 40 split pieces (using a rock hammer) of randomly selected rock fragments of variable sizes either from the bottom of the trench or the windrow of rock on the side of the trench. Random sample intervals were re-sampled as duplicates and several select grab samples were collected of specific interesting lithologies.

Trenches LOO TR12-1 to -6 (1379m) were excavated over the Peso gold soil anomaly (Figure 8). Trench 12-1 tested the highest gold soil anomaly of 404.3 ppb Au. Trench 12-2 tested a 200m wide zone of anomalous gold with a maximum value of 126.2 ppb Au. Trench 12-3 was excavated along the spur line across the 404.3 ppb Au, an 83.3 and a 104 ppb Au soil. Due to topography Trenches TR12-01 and -02 were excavated as a series of pits across the trench line resulting in limited exposure along the

trenches. Trench 12-04 was excavated across the Breccia zone and Trench 12-05 perpendicular to the zone across a 63.7 ppb gold value. Trenches 12-04 and -05 lie upslope of 216.6 and 158.0 ppb gold in soil values, which appear to be groundwater transported anomalies from above. Trench 12-6 was excavated across a 76.8 ppb Au, 430.7 ppm Cu soil anomaly, which forms part of a northwest trending gold soil anomaly with values up to 131.7 ppb Au.

No significant gold results were obtained from trenching on the Peso gold soil anomaly. Soils from the pits along Trench 12-01 returned 164.6 and 110.6 ppb Au from within 60m of the highest value of 404.3 ppb Au in the central trench area, and 154.9 ppb Au was obtained from near the southern end of the trench near a 144.2 ppb Au soil. Soil anomalies appear to be transported from the steeper hillside above.

Trench 12-6 returned an elevated value of 166.3 ppm Cu over 20m from the 76.8 ppb Au, 430.7 ppm Cu soil anomaly within the southern quarter of the Peso soil anomaly, which exhibits similarities to, and may be continuous or associated with, the Guilder copper ±gold soil anomaly (*Figure 9*).

Trenches LOO TR12-7 to -17 (546m) were excavated over the Lira gold soil anomaly (*Figure 10*) to test the 460m long east-northeasterly trending zone of anomalous soils, including values of 753.8, 2622.9, 3700.1, 919.2, 790.6 and 1037.5 ppb Au. Trench results are summarized in Table 3.

TABLE 3: Significant trench results from Lira zone

Trench Number	From m	To m	Interval m	Au g/t
TR12-08	20	30	10	1.13
including	25	30	5	2.03
TR12-09	20	35	15	1.61
including	25	30	5	3.8
TR12-10	30	35	5	3.34
TR12-13	40	45	5	0.36
TR12-15	5	15	10	13.3
including	5	10	5	25.2
and	10	15	grab	86.6

The Lira zone returned significant values over a 400m strike extent from Trench 12-15 to Trench 12-10 (*Figure 9*). From west to east, the 070° trending zone appears to lie to the north of Trenches 12-17 and -16, returned 13.3 g/t over 10m in Trench 12-15 (including 25.2 g/t Au over 5m) extends through the gap in Trench 12-14, returned 1.61 g/t Au over 15m in Trench 12-09 (including 3.8 g/t Au over 5m), 0.36 g/t Au over 5m in Trench 12-13, 1.13 g/t Au over 10m in Trench 12-08, extends south of Trenches 12-12 and 12-11, and returned 3.34 g/t Au over 5m in Trench 12-10. Only slightly enhanced gold values were obtained from Trench 12-7, at the east end, consisting of 63.5 ppb Au over 10m. The augen gneiss exhibits significant alteration in the north end of Trench 12-17.

Anomalous gold values at the Lira zone are associated with anomalous silver, bismuth, tellurium and mercury. The 25.2 g/t Au from Trench 12-15, was accompanied by 5.6 ppm Ag, 10.8 ppm Bi, 23.5 ppm Te, and 1.02 ppm Hg. This is similar to the

geochemical signature at the VG zone on the QV property of Comstock Metals Ltd., which exhibits a positive correlation between gold and silver, bismuth, tellurium, mercury, molybdenum and lead (*Comstock Metals' News Release, June 29, 2012*).

The author supervised the 2012 program on the Loonie property and examined all trenches. Grab samples collected by the author during examination of the trenches prior to receipt of trench results returned similar values to those collected during the trenching program and include 0.67 g/t Au from silicified augen gneiss with quartz veinlets and stringers within the anomalous interval in Trench 12-8 (1.13 g/t Au over 10m) and 1.04 g/t Au from a gouge zone just south of the anomalous interval in Trench 12-9 (1.61 g/t Au over 15m). The anomalous interval in Trench 12-15 (13.3 g/t from 5-15m, including 25.2 g/t Au from 5-10m) was examined and a grab sample collected by the author between 10 and 15m returning 86.6 g/t Au with highly anomalous silver, bismuth, tellurium and mercury (*Photo 1 on page 39*). Subsequent sampling of this material by White Gold Corp. returned similar results of 99.2 and 110 g/t Au (*January 23, 2017 news release at www.whitegoldcorp.ca*), with the presence of visible gold documented.

6.3 Geophysics (Figures 11 to 13)

Geo Zone Exploration Limited completed 150 line kilometres of ground magnetic geophysics in two surveys (over about 10% of the property), 80.1 line kilometres of ground ELF surveying (about 5% of the property), and 5.94 line kilometres of induced polarization geophysical surveying on the Loonie Project in 2012 and 2014. All surveys were conducted by GroundTruth Exploration Inc., Dawson City, Yukon Territory.

The ground magnetic geophysical surveys were completed to help identify regional scale structures, lithological contacts and zones of alteration. One survey, consisting of 135 line kilometres was completed over the Peso and Guilder soil anomalies in the northern property area and a second, 15 line kilometre survey, was completed over the Lira zone. The surveys were completed along east-west grid lines using a line spacing of 100m.

In the Lira magnetic survey (*Figure 13*) the amplitudes are subdued compared to the values in the Peso-Guilder area. The Lira zone is hosted by felsic augen gneiss but Geological Survey of Canada mapping (*Gordey and Ryan, 2005*) shows mafic orthogneiss through this area. The higher magnetic signature in the western grid area may reflect the contrast between the felsic and more mafic gneisses. The east-northeast trending Lira zone appears to be generally defined along a magnetic break, which is offset along a northerly structure south of LOO-TR12-12. There is a lack of resolution at the scale of the trenches which can be rectified by more closely spaced lines.

The Peso-Guilder ground magnetic survey resolves the north-south magnetic low feature seen in the Geological Survey of Canada (*Shives et al., 2002*) magnetic data (*Figure 6*) into two separate and parallel low features (*Figure 11*). The lows are unlikely to be due to magnetite destruction caused by alteration due to the magnitude and are interpreted to be related to dykes, which are locally cut and displaced by later structures

(*Bob Lo, personal communication*). A quartz feldspar porphyry dyke, of probable Eocene age, was observed by the author in the west end of Trench 12-3, which corresponds to the western, northerly trending magnetic low. The southern disruption along this dyke (represented by the magnetic low anomaly) may be related to the possible thrust fault, thought to be defined by the quartzite breccia.

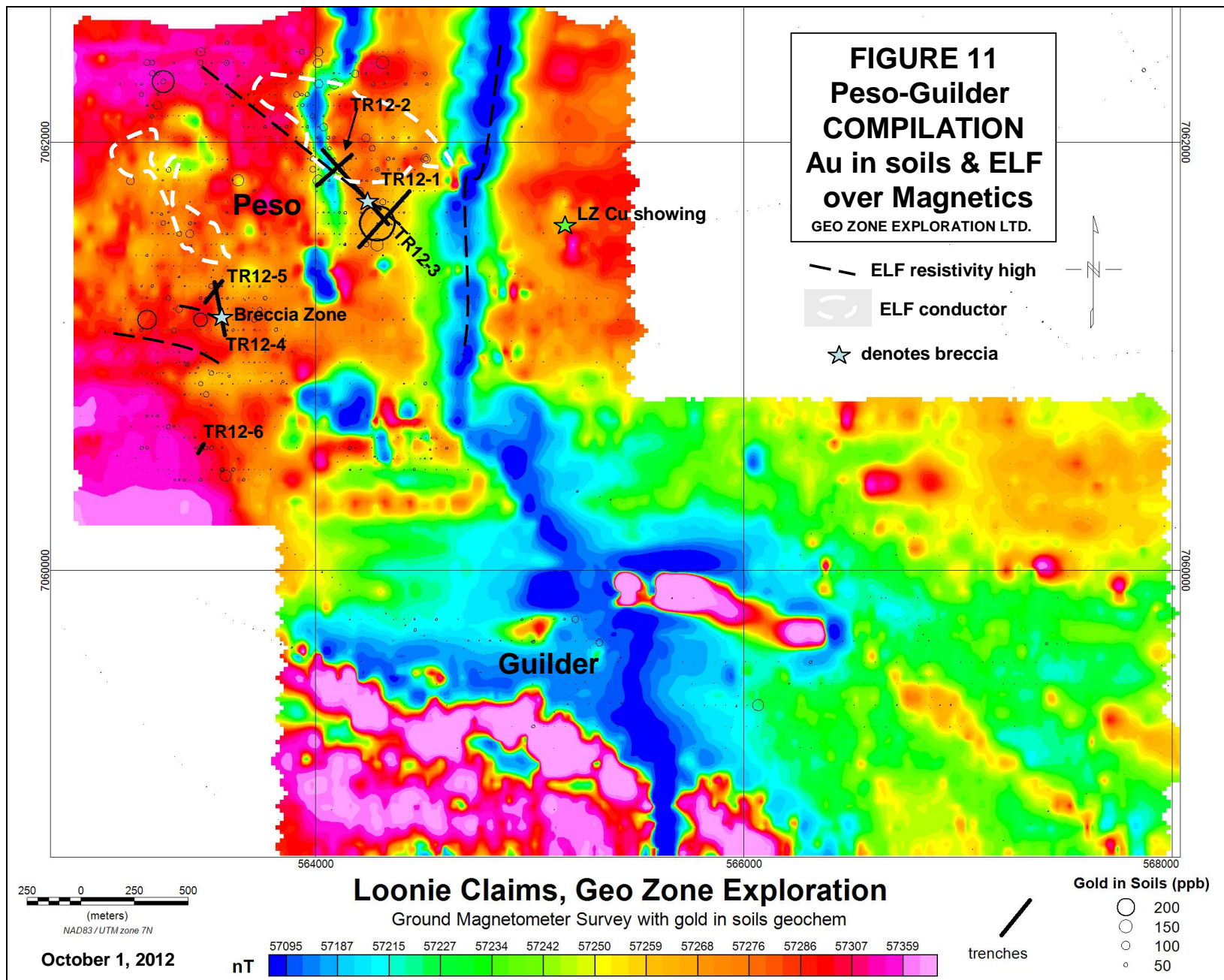
The ground ELF survey was completed by GroundTruth Exploration Inc. under the direction of George Lev. A total of 80.1 line kilometres was surveyed along east-west grid lines using a line spacing of 100m over the three grids with 43 km on Peso, 25 km on Guilder, and 12.1 line km on Lira. The ELF (Extremely Low Frequency) system is an AFMAG (Audio Frequency Magnetics) survey system, such as Geotech's airborne ZTEM system. ELF is a ground based system which harnesses the energy from global lightning strikes (*Braden, 2012*) and is designed to map conductivity, structure and alteration zones from approximately 10 to 1,000 meters depth depending on the conductivity of the region (*Bob Lo, personal communication*). Essentially the ELF is a more portable, cost effective CSAMT (Controlled-Source Audio-Frequency Magneto-Telluric) type survey, which is a deep penetrating electromagnetic type of geophysical survey.

The ELF survey over the Peso grid delineated three sub-parallel northwest to west-northwest trending resistivity high lineaments (*Bob Lo, personal communication*), two of which correspond to exposures of the quartzite breccia (*Figure 12*). The breccia may show up as a resistivity high due to the siliceous composition of the quartzite and silicification; the breccia was highly silicified just west of Trench 12-4. The breccia resembles the metasedimentary breccia exposed at the Arc zone at White Gold, just south of the Golden Saddle deposit.

A northerly trending resistivity high lineament (*Figure 12*) is evident east of Trenches 12-1 to -3, which corresponds to the eastern ground magnetic low (*Figure 11*) and the Geological Survey of Canada aeromagnetic low (*Figure 6*). The lineament is thought to reflect an Eocene quartz feldspar porphyry dyke, which tend to fill earlier structures in the regional area. Two more conductive areas are evident just north of current trenches (*Bob Lo, personal communication*). The larger is 800m long by up to 500m wide in centre and is cut by the western magnetic low lineament thought to represent a quartz feldspar porphyry dyke. The dyke is not represented by a resistivity high anomaly, so may also represent a significant structure. There are anomalous gold values associated with this trend (*Figure 11*).

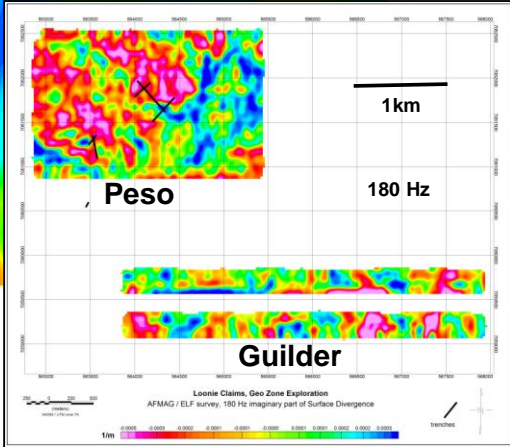
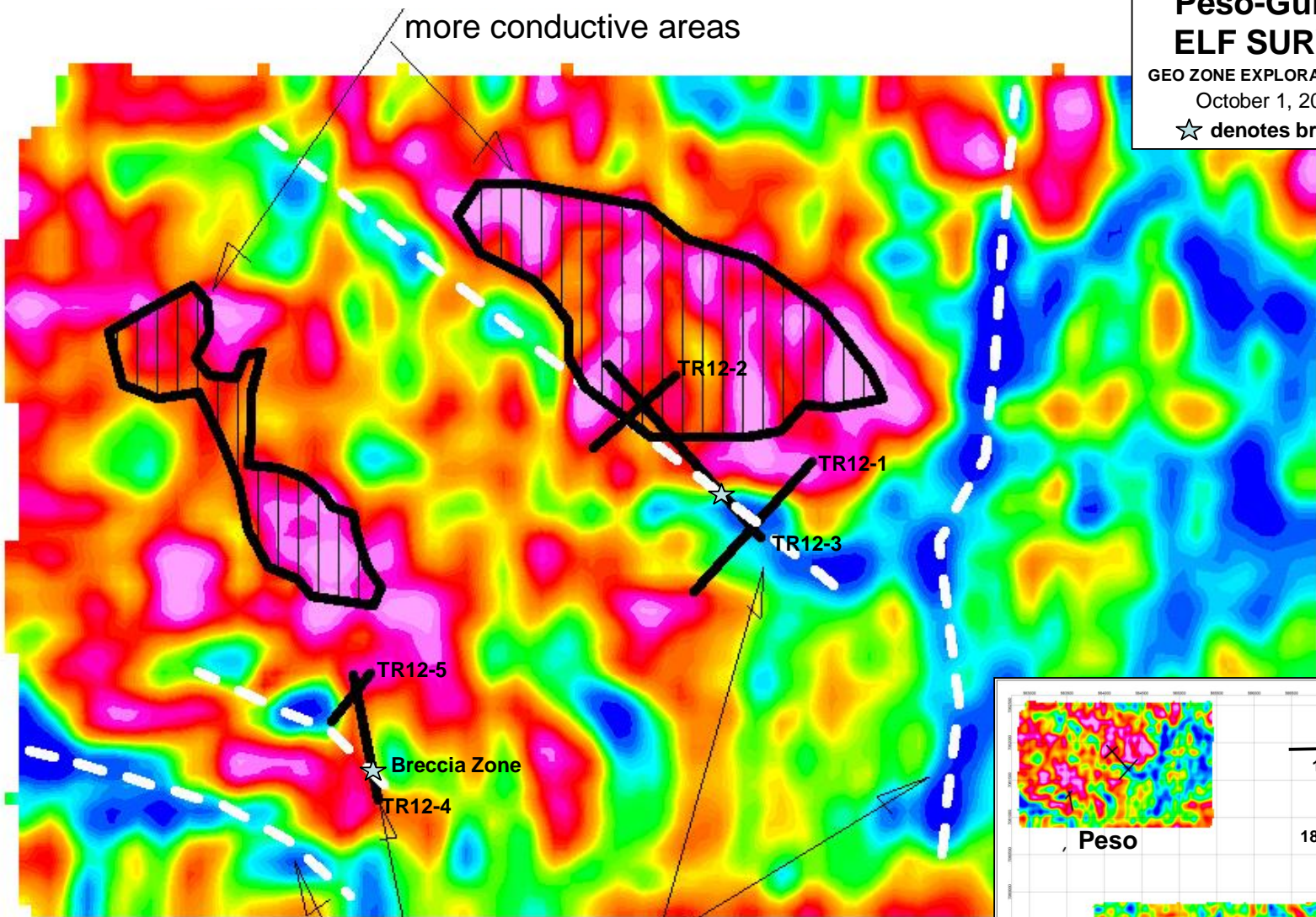
Limited ELF data on both the Guilder (only 2 lines surveyed) and Lira grids (only 12.1 line km survey) preclude detailed interpretations.

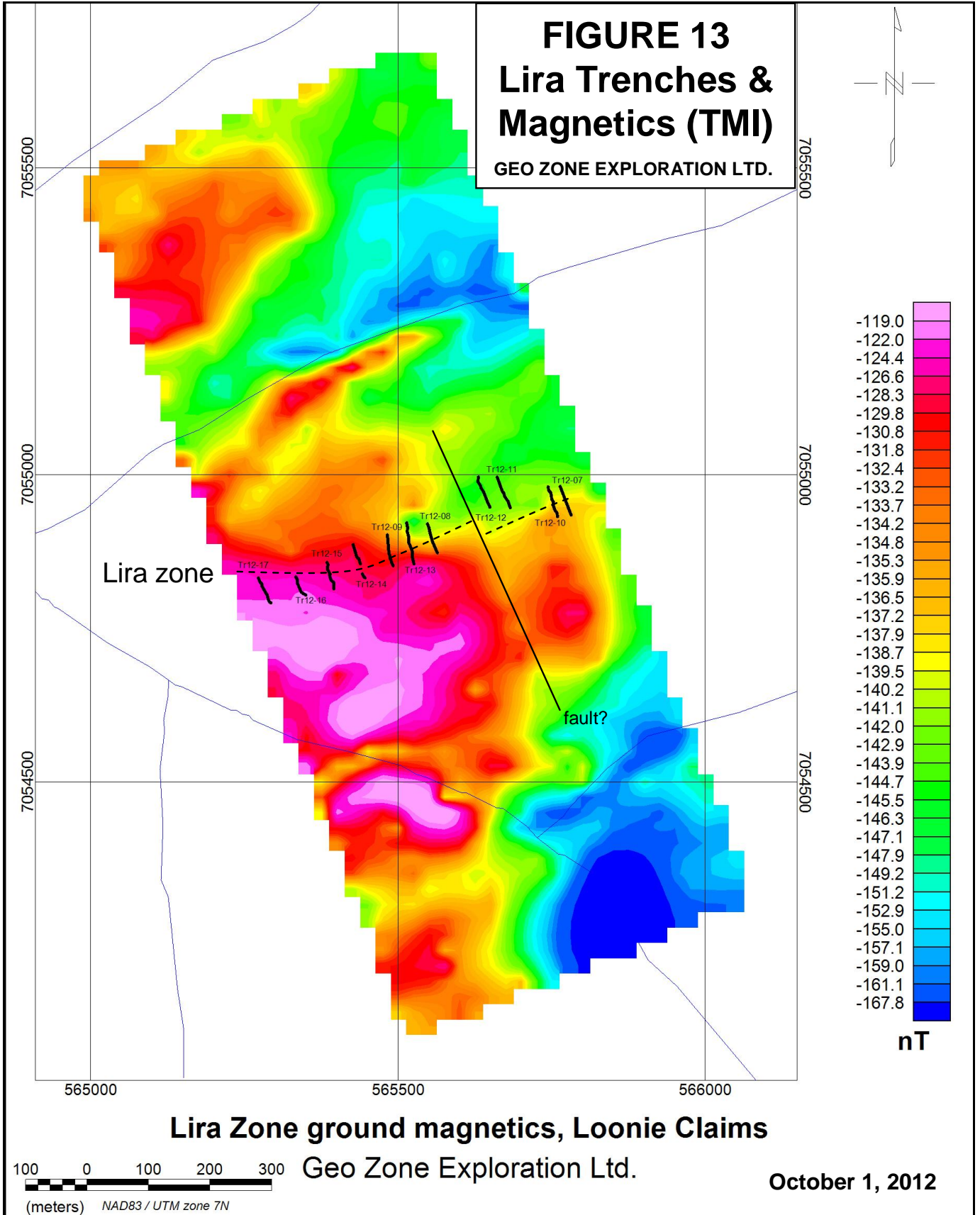
A test 0.54 line km detailed ground induced polarization survey was completed on the Lira zone in 2012 using various arrays along two north trending lines (2.5 to 5m electrode spacing) across trenches TR12-9 and -15 in an attempt to determine the usefulness of the newly acquired equipment. The survey showed a vertical chargeability high/resistivity low below the mineralization in Trench 9 on Line 1, 130-135m and vertical chargeability high/resistivity contrast on Line 2, 125 and 150m below the mineralization in Trench 15 (*Figures 14-15*).



PESO DETAIL

FIGURE 12
Peso-Guilder
ELF SURVEY
GEO ZONE EXPLORATION LTD.
October 1, 2012
☆ denotes breccia





The 5.4 line km of IP, completed in 2014, consisted of nine 340° trending, 415m long cross-lines at a 50m line spacing and three 250° trending, 555m long lines presumably along strike at a 75m line spacing to provide a three dimensional model (*Figures 14-15*). Dipole-dipole and inverse Schlumberger arrays were used, merged and inverted. Purpose of the survey was to determine the strike extent and dip direction of the Lira zone and detect any significant conductors and resistive or chargeability features that may be related to mineralization or lithology. Topography of the area surveyed is moderate, covering a low, broad ridge, below tree line (*Figure 16*).

The 2014 IP survey utilized an AGI SuperSting R8 system using a 5m electrode spacing (resulting in 1098 stations), to detect near surface mineralization related to soil and trench anomalies, and merged dipole-dipole and inverse Schlumberger arrays, which were merged. Three dimensional IP and Resistivity models are shown with trench results in *Figures 14 and 15*.

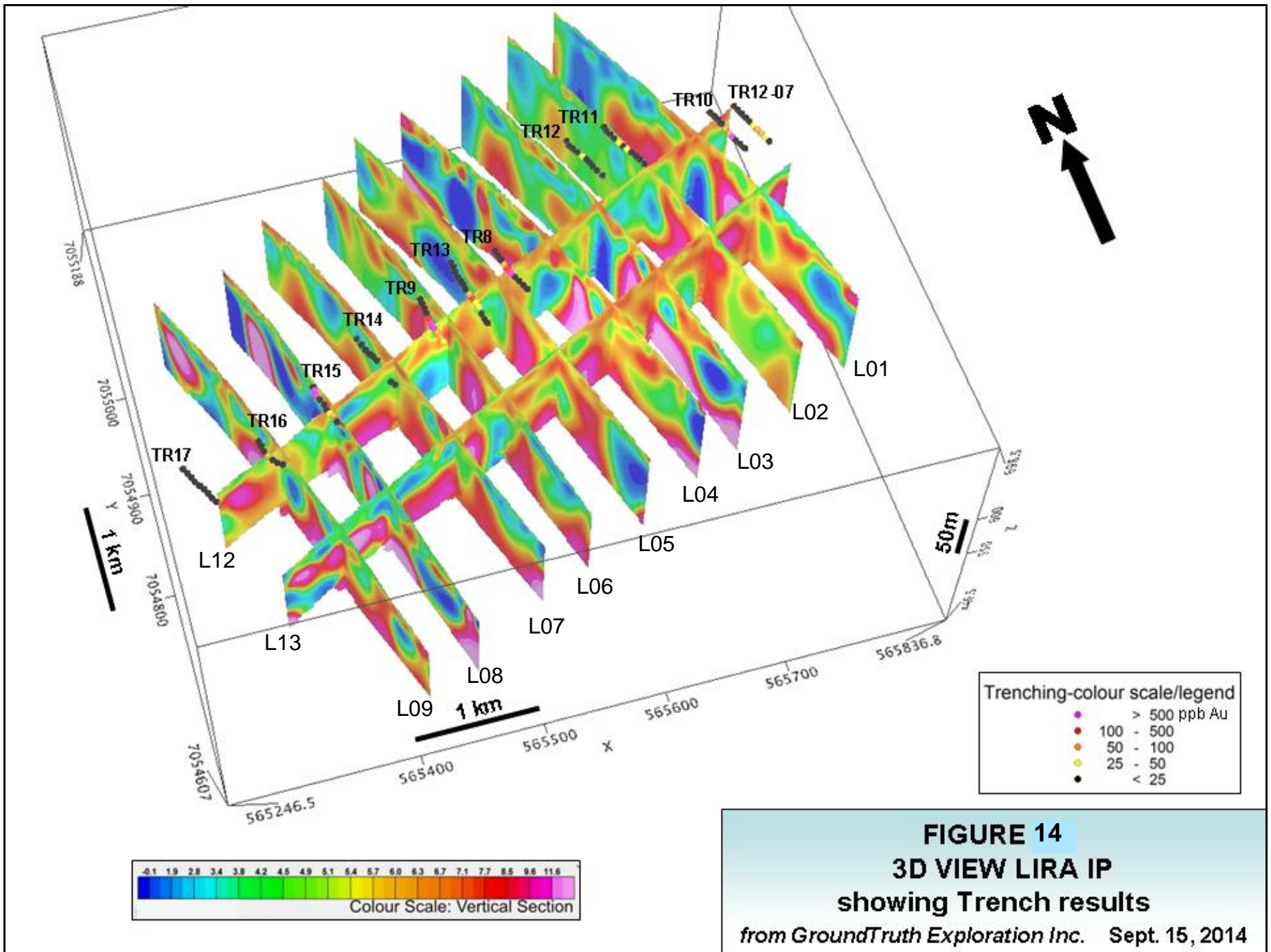
The east-northeast trending Lira zone appears to be generally defined along the boundary of a chargeability high/resistivity low to the south (*Figure 14*) with a resistivity high/chargeability low to the north (*Figure 15*), which generally corresponds to a magnetic break (*Figure 13*). There is a northerly break in the chargeability high (*Figure 14*), and to a lesser extent the resistivity high (*Figure 15*), in the vicinity of the high grade trench intercept in Trench 15. In detail high grade trench and soil results were interpreted to generally correspond to vertical chargeability high/low fingers and resistivity low/high contacts, both generally in the lows.

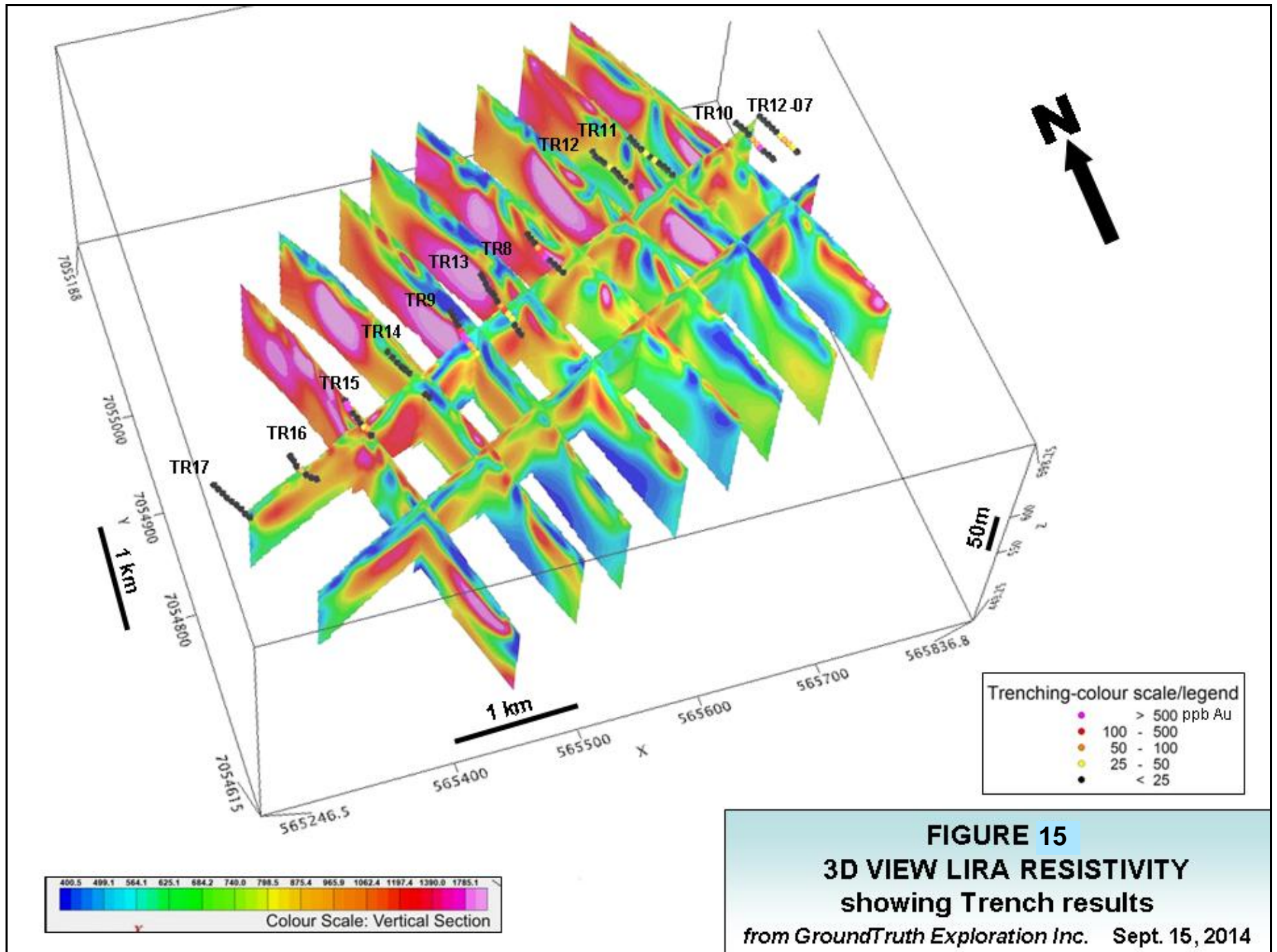
Further interpretation by Cooley (2016) suggests a direct association of the Lira zone with a consistent chargeability anomaly, located below and southeast of the surface mineralization (Cooley, 2016). Consequently, a moderate to steep south-southeast dip is interpreted. At least two additional IP chargeability anomalies occur on the southern IP sections flanking the central Lira anomaly, possibly representing additional parallel and blind mineralized structures (Cooley, 2016). The IP anomalies do not continue to surface, where the sulfides associated with gold mineralization are inferred to have been oxidized by surface weathering (Cooley, 2016).

6.4 Drone Aerial Photography (Figure 16)

An aerial drone survey, covering an approximate 3 by 6 km area (*Figure 14*), was undertaken for Geo Zone Exploration Limited by GroundTruth Exploration Inc. of Dawson City, Yukon over the Lira zone in 2014 to aid in geological and structural mapping, survey planning, geomorphology and provide up to date high resolution imagery and digital elevation models for control. The survey utilized an eBee unmanned aerial vehicle (UAV) with 4 cm ground resolution.

A northerly trending structure can be interpreted through the Trench 8 and 12 area (*Figure 16*), which corresponds to the magnetic break identified in the 2012 ground magnetic survey (*Figure 13*).





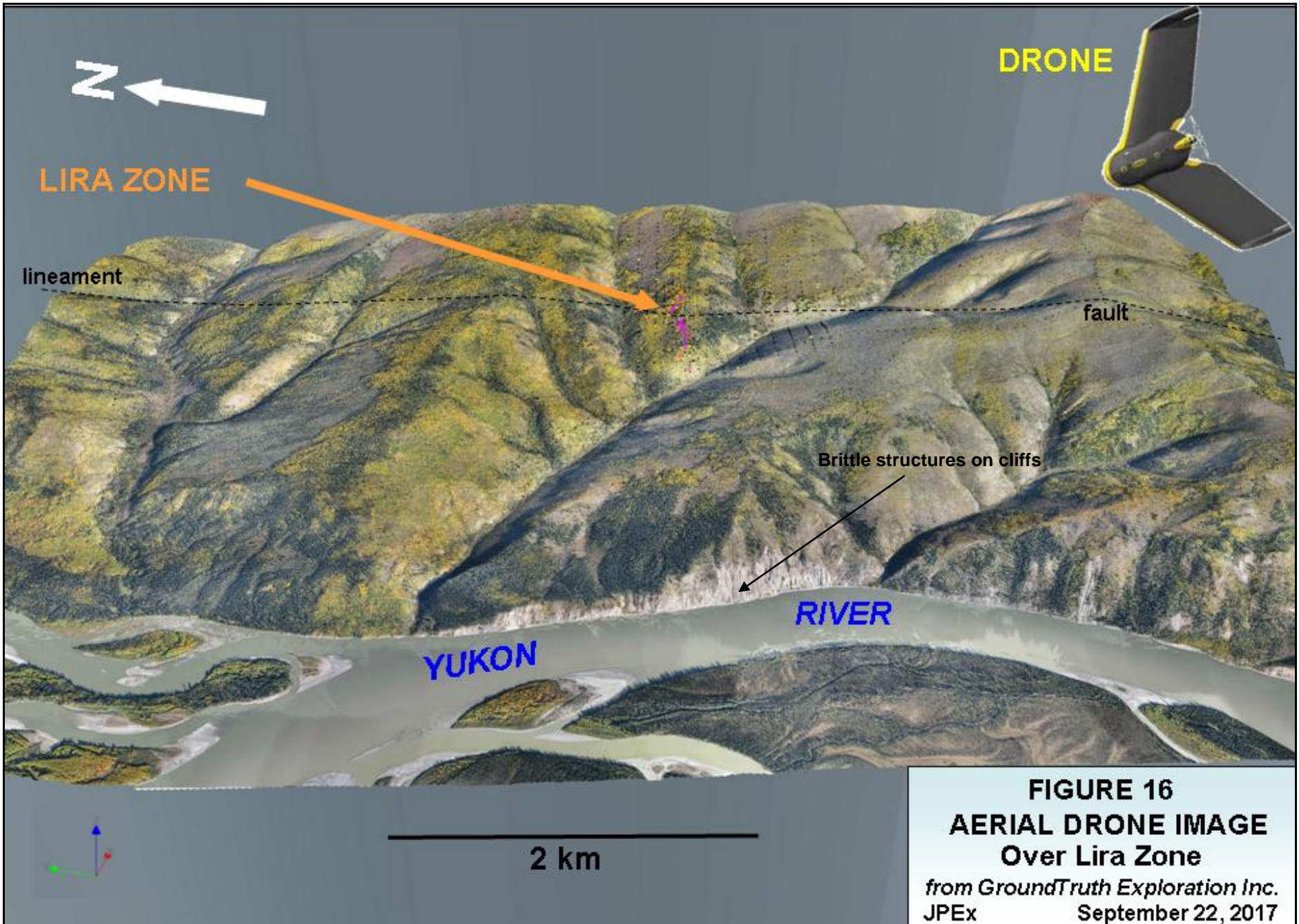


FIGURE 16
AERIAL DRONE IMAGE
Over Lira Zone
from GroundTruth Exploration Inc.
JPEX September 22, 2017

7.0 GEOLOGICAL SETTING AND MINERALIZATION

7.1 Regional Geology (Figure 17)

The regional geology of the area is primarily summarized from Gordey et al. (2006), Allan et al. (2013) and Colpron et al. (2016).

The Loonie Project occurs within the unglaciated Yukon Plateau portion of the Paleozoic Yukon-Tanana terrane, southwest of the Tintina and northeast of the Denali faults. It is dominated in the regional area by Late Devonian and older metasiliciclastic rocks of the Snowcap assemblage (**PDS**), which interfinger with, and are stratigraphically overlain by, Late Devonian to Mississippian intermediate to mafic amphibolite, with lesser metaclastic rocks, of the Finlayson assemblage (**DMF**). The metasiliciclastic rocks include metamorphosed fine clastic rocks, quartzite and conglomerate. The above lithologies include marble horizons (**DMc**) and are metamorphosed to amphibolite grade. Devonian metasedimentary rocks (quartzite and metapelite) of the Nasina assemblage (included in PDS on Figure 17) lie structurally above and may be part of the Finlayson assemblage.

Abundant orthogneiss bodies of the Mississippian mainly Simpson Range plutonic suite (**MSR**) and Permian Sulphur Creek orthogneiss (**PS**) occur throughout the region. The Mississippian orthogneiss compositions range from granite to potassium feldspar augen bearing to tonalite and diorite. The Sulphur Creek orthogneiss includes granitic and potassium feldspar augen orthogneiss and highly strained, mafic poor orthogneiss; the latter as observed at Sulphur Creek, north of the Indian River. Narrow bodies of Paleozoic ultramafic rocks (**mPum**), commonly serpentinized (**mPums**) also occur within the area.

The above units are interpreted to represent two arcs, an older Devonian to Mississippian arc consisting of amphibolite (**DMF**) and associated subvolcanic intrusions (**MSR**) built on a siliciclastic basement (**PDS**), and a Permian arc of granitic orthogneiss (**PgS**) and coeval metavolcanic rocks (**PKs**) built on the Devonian-Mississippian arc.

The above lithologies are intruded by plutons and stocks of Late Triassic to Early Jurassic commonly K-spar megacrystic granodiorite of the Minto suite (**LTrEJgM**), Early Jurassic aged granodiorite and quartz monzonite (**EJL**) and Cretaceous granodiorite (**Kg**), and are unconformably overlain by massive andesite flows and breccias of the Late Cretaceous Carmacks Group (**uKv**), locally with Early Cretaceous coarse clastic sedimentary rocks at the base of the sequence (**IKs**). Eocene feldspar \pm quartz porphyry dykes intrude the above (**Er**).

Northwest trending faults predominate on the Stewart River map sheet (115N,O), locally with more northerly trends evident in the south-central map area, which is shown on Figure 17. A northerly trending structure occurs at the Golden Saddle deposit of White Gold Corp., and continues through the QV property of Comstock Metals Ltd. Other northerly structures are evidenced by northerly trending Eocene dykes (*Unit Er on*

Figure 17) and aeromagnetic lineaments (*Figure 6*). Easterly trending faults are evident in the Loonie area and generally disrupt the northerly trends (*Figures 17 and 6*).

Mineralization within the White Gold district appears to be associated with east-northeasterly trending faults that disrupt northerly trending structures (e.g. Golden Saddle, QV, and White Gold Corp.'s Dime property). Some of these structures are evident on the regional magnetic map (*Figure 6*), but are more readily visible on the more detailed property scale magnetic maps. The Peso gold soil anomaly and east-northeasterly trending Lira gold zone at Loonie occur along a northerly trend of significant gold showings, extending 90 km from the north trending Supremo zone at Goldcorp's Coffee deposit (*Figure 1*), and including the Golden Saddle deposit, QV Project, and Taku Gold's Rosebute Project (*Figure 6*). The gold showings mentioned above are discussed in more detail under section 8.0, "Deposit Types" and section 15.0, "Adjacent Properties".

7.2 Property Geology (Figures 17 to 19)

Property scale mapping has not been undertaken on the Loonie Project, but local prospecting with concurrent mapping was conducted on the Peso, Guilder and Lira zones by the author in 2012, and a structural and lithologic analysis was completed over the Lira area by Michael Cooley, P.Geo. for White Gold Corp. The Yukon Geological Survey digital geology by Colpron et al. (2016) has been used as a base in Figure 18 (website at <http://mapservices.gov.yk.ca/YGS/Load.htm>), with modifications by the author. Outcrop is limited on the property, comprising approximately 1%, and generally confined to ridge tops and creek exposures.

The Loonie property is shown by the Yukon Geological Survey (YGS) to be primarily underlain by Mississippian Simpson Range orthogneiss (**MSR**), but the orthogneiss may be less extensive based on trench mapping. The oldest rocks underlying the property area are quartzite and lesser siliciclastic schistose metasedimentary rocks of the Devonian and older Snowcap assemblage (**PDS**). Isolated bands of Late Devonian to Mississippian Finlayson assemblage (**DMFv**) occur across the Loonie Project with minor occurrences of possible Permian felsic orthogneiss in the southern property area.

Quartzite and lesser siliciclastic schistose metasedimentary rocks of the Snowcap assemblage (**PDS**), were found to dominate in the Guilder and northwestern Peso zones. The band of metasedimentary rocks shown by the YGS along the southern Peso zone appears to occur slightly further to the north and may be thrust bounded. The southeastern Peso grid is underlain by an intermediate orthogneiss (**MSR**), possibly leading to the distinct geochemical signature (copper, molybdenum, bismuth, nickel, iron, lead, zinc, antimony, and lesser arsenic, ±gold).

Amphibolite (mafic metavolcanic rock) of the Finlayson assemblage (**DMFv**) has been mapped underlying the eastern portion of the Guilder copper soil anomaly, on trend of the amphibolite which hosts the Lucky Joe prospect. Minor marble (**DMc**) and actinolite-quartz-calcite-magnetite skarn occurs in the western portion, proximal to a Cretaceous

stock. Marble is also reported along Reindeer Creek (*Hermanutz, 1996*), east of the Guilder zone.

A Cretaceous intrusion (**Kg**) is shown by the YGS just west of the copper soil anomaly (Guilder) and was identified in the eastern Guilder zone, possibly as dykes. Unfoliated intrusive rock, possibly related to this intrusion, was identified in Trenches 12-1 to -3 within the Peso gold soil anomaly. In the regional area (*Figure 18*) similar intrusions, originally mapped as Cretaceous (Dead Rock syenite at White Gold and the Ten and Jua stocks), have been dated as Early Jurassic, suggesting that the intrusions in the Peso-Guilder area could be Early Jurassic. Mineralization at Golden Saddle (White Gold) has been dated as Late Jurassic (*Bailey et al., 2012*). The Trench 12-1 to -3 area at Loonie is complex with alternating zones of quartzite, schist and intrusion, suggestive of a roof pendant environment similar to that at Ten/Jua, 20 km to the southwest (*Figure 17*).

Quartz-feldspar porphyry dykes occur in the western end of Trench 3 in the Peso gold soil anomaly on the Loonie property. Eocene dykes (**Er**) in the regional area are typically unmineralized.

A brecciated quartzite was identified within the Peso gold soil anomaly in 2012, which may represent a thrust contact with the Mississippian orthogneiss. The quartzite is light coloured to locally graphitic. A similar breccia, thought to represent a thrust fault between a body of Permian orthogneiss and the Devonian and older metasedimentary package, occurs just west of the Golden Saddle deposit at White Gold (*Figure 17*).

In the structural and lithological analysis on the Lira zone by Cooley (2016) amphibolite was mapped along the Yukon River cliffs, south-southwest along trend of the Lira zone, slightly further north than shown by the YGS. The amphibolite is underlain by felsic orthogneiss and metasedimentary rocks (**PDS**), which dip shallowly to the north-northwest to northwest. The Lira grid appears to be primarily underlain by felsic augen gneiss of probable Permian age (**PS**), which is the main host of the Golden Saddle and Coffee deposits. The felsic gneiss/schist unit here was found to be enriched in thorium and potassium (*Cooley, 2016*). Lesser quartz-biotite schist and minor quartzite (**PDS**) also occur in the area. The units dip shallowly to the northwest.

Two probable potassic altered old brittle structures were identified by Cooley (2016) along the Yukon River cliffs 2.5 km southeast along trend of the Lira zone. The structures trended similar to the Lira zone (about 070°) with trends of 068°/72°S and 070°/62°S. A review of the IP data by Cooley (2016) shows a consistent chargeability anomaly downdip to the southeast of the trace of mineralization exposed in trenches, with possible buried mineralized targets flanking the Lira vein. The Lira vein is interpreted to trend about 070°/60-70°SSE, consequently drilling needs to be directed to the north-northwest (*Cooley, 2016*).

The YGS shows additional amphibolite (**DMFv**) about 1 km south of the Lira zone, and metasedimentary rocks of the Snowcap assemblage (**PDS**) and a marble horizon (**DMc**) further south. Permian orthogneiss (**PS**) is shown by the YGS in the southwest property area.

7.3 Mineralization (Figures 2, 5, 7, 10 and 23)

The Loonie Project covers the Rudolf and Stockade Minfile occurrences (Minfile Numbers 115O 050 and 156) (Figures 2 and 5), as previously documented by the Yukon Geological Survey (Deklerk, 2009). The Rudolf was staked by J.S. Bay as the May and Hidden Treasure in June, 1899 and as the Golden Star claim in August, 1899, (possibly covering quartz veins) and the Stockade was staked as the MC Stockade claim by F. Stretch in August, 1992, probably in conjunction with placer activity (Deklerk, 2009). Quartz veins (Hermanutz, 1996), old placer pits, and fine garnet, magnetite, pyrite and minor fine gold from panning (Bryde, 1992) are reported at the Rudolf.

Three significant soil anomalies were outlined on the Loonie Project in 2011 (Figure 7), two gold soil anomalies (Peso and Lira) and a copper \pm gold soil anomaly (Guilder). At the Lira, a discontinuous, shear hosted 620m long 070° trending zone with multiple

segments of significant gold mineralization has been defined by trenching and drilling. Trench results include 13.3 g/t Au over 10m (including 25.2 g/t Au over 5m), 1.61 g/t Au over 15m, and 3.8 and 3.3 g/t Au over 5m (Figure 10 and Table 3). RAB drill results include 4.93 g/t Au over 12.2m, including 20.7 g/t Au over 1.5m in LOORAB14-01, 0.90 g/t Au over 16.8m, including 2.11 g/t Au over 4.6m in LOORAB14-08 and 4.6 g/t Au over 7.6m, including 17.1 g/t Au over 1.5m in 17LOO009 (Figures



25-28 and Table 7). The gold mineralization is hosted by quartz-carbonate, \pm muscovite-sericite, \pm clay, \pm Kspar altered felsic augen gneiss with quartz veining, disseminated pyrite(limonite), hematite and, locally, visible gold, associated with a 070° trending structure as evidenced by fracturing, brecciation and gouge (Photo 1 - grab sample collected by author in 2012).

At the Peso gold anomaly a brecciated quartzite was identified which may represent a thrust at the base of the Mississippian orthogneiss. The brecciated quartzite is light coloured to locally graphitic, and is variably silicified. A highly silicified outcrop of the breccia, discovered by Ben McGrath of GroundTruth Exploration Inc., returned 212 ppb Au. The breccia was intersected in Trench 4, and intersected in Trench 3, 850 m to the northeast, but with no significant gold values. A sample of potassic-hematite-limonite altered and silicified gneiss, proximal to the breccia in Trench 4, returned high arsenic (937.8 ppm) with 142 ppb Au. In Trench 12-3 the breccia contains anomalous zinc, antimony, arsenic and molybdenum. A similar breccia, thought to represent a thrust

occurs just west of the Golden Saddle deposit, and is silicified and gold bearing at the Arc zone, just south of Golden Saddle.

Altered intrusive rocks (bleached and silicified) have also been delineated in the Trench 12-1 to -3 area within the Peso gold soil anomaly. The intrusion shows strong similarities to the altered Jurassic aged intrusion at the Jual and Ten properties owned by Bernie Kreft, and the Dime property of White Gold Corp., 20 km to the southwest of the Loonie.

The Peso gold anomaly is drained by a 13 ppb gold silt anomaly (*Heon, 2003*). It should be noted that the White Gold discovery leading to the Golden Saddle deposit was initially found by following up a 12 ppb Au government stream sediment anomaly.

The Guilder copper (molybdenum \pm gold) soil anomaly is drained by a 32 ppm Cu government stream sediment anomaly (*Heon, 2003*) and lies 10 km northwest of Lucky Joe, a metamorphosed porphyry copper-gold drilled prospect (Minfile Number 115O 051). The Three Bears anomalous copper soil trend on the Lucky Joe (LJ) property is shown to extend almost to the Guilder zone (*Hulstein, 2003*). A new copper showing (LZ Cu) consisting of malachite and chalcocite, hosted by quartz-feldspar-biotite schist, near an outcrop of augen gneiss was discovered 2 km further northwest along trend from Lucky Joe on the Loonie property by Morgan Fraughton in 2012 and returned 1114.8 ppm Cu with 6.1 g/t Ag (*Figure 9*). The showing lies within the drainage basin of the 44 ppm Cu silt anomaly (*Heon, 2003*) at the mouth of Reindeer Creek. A broad, more diffuse copper in soil anomaly straddles Lucky Joe Creek, which exhibits a 35 ppm Cu silt anomaly at its outlet, in the southern property area.

8.0 DEPOSIT TYPE

The Loonie Project lies within the White Gold district, about 30 km northwest of the JP Ross prospects and 50 km north of the Golden Saddle deposit, both of White Gold Corp., and 40 km north of the VG zone on the QV property of Comstock Metals Ltd. The NI 43-101 compliant indicated resource at the Golden Saddle deposit as of December 31, 2015 is 9,788,000 tonnes grading 2.7 g/t Au, primarily mineable by open pit methods, with an additional 2,166,000 tonnes Inferred grading 1.8 g/t Au (*Kinross, 2016*). The QV deposit has an initial open ended NI 43-101 compliant inferred open pitable resource of 4,390,000 tonnes grading 1.65 g/t Au (yielding 230,000 ounces), using a cut-off grade of 0.5 g/t Au (*Pautler and Shahkar, 2014*). The author has not been able to independently verify the above information and it is not necessarily indicative of the mineralization on the Loonie Project which is the subject of this report.

The Loonie Project is also situated 80 km north of Goldcorp's Coffee deposit where mineralization is hosted by metamorphosed Paleozoic basement rocks of the Yukon-Tanana terrane (primarily a felsic orthogneiss) and the Mid Cretaceous Coffee Creek pluton, part of the Dawson Range Batholith, with a strong structural control. Coffee has a NI 43-101 compliant Proven Reserve of 46.36 million tonnes grading 1.45 g/t Au, an Indicated Resource of 17.69 million tonnes grading 1.21 g/t Au and an Inferred Resource of 52.35 million tonnes grading 1.31 g/t Au (*Goldcorp, 2016*). The author has not been able to independently verify the above information and it is not necessarily indicative of the mineralization on the Loonie Project which is the subject of this report.

Gold mineralization within the White Gold district is characterized by the orogenic type. Mineralization is controlled by a brittle to brittle-ductile D4 deformation event dated as Middle to Late Jurassic (155-160 Ma), which corresponds to the age of regional exhumation and cooling in the region (*Allan et al., 2013*). Epizonal features (breccias, rapid crystallization textures) are prevalent (*Allan et al., 2013*) and gold is commonly associated with oxidized cubic pyrite. A common host rock is the felsic orthogneiss, due to its competency. The alteration assemblage includes sericite, silicification, carbonate, pervasive potassium feldspar and hematite (typical in the footwall zone). Most gold prospects in the White Gold district share a common relationship with small-displacement, easterly trending, sinistral strike-slip faults (*Allan et al., 2013*).

At the Lira zone on the Loonie Project gold mineralization is hosted by quartz-carbonate, \pm muscovite-sericite, \pm clay, \pm Kspar altered felsic augen gneiss with quartz veining, disseminated pyrite (limonite), hematite and, locally, visible gold. It is associated with a 070° trending structure, evidenced by fracturing, brecciation and gouge. A shear fault system is indicated by the interpretation that the vein consists of overlapping and semi- to non-continuous vein segments (*Cooley, 2016*). Consequently mineralization at the Lira is of the orogenic vein deposit type. The silicified and graphite bearing quartzite breccias at the Peso zone at Loonie show strong similarities to those at the Arc zone at the White Gold Project, just south of the Golden Saddle deposit, which is also orogenic.

The Loonie Project is also underlain by, and mineralization spatially associated with, an intrusive stock which is mapped as Cretaceous by the Geological Survey of Canada (*Gordey and Ryan, 2005*) (*Figure 17*). Altered intrusive rocks (bleached and silicified), probably related to the mapped stock, have been delineated in the Trench 12-1 to -3 area within the Peso gold soil anomaly. The intrusion shows strong similarities to the altered Jurassic aged intrusion, also originally mapped as Cretaceous by the Geological Survey of Canada, at the Dime property, 20 km to the southwest of the Loonie, where drilling intercepted 8.32 g/t Au over 1.45m and 0.90 g/t Au over 12.03m including 5.37 g/t Au over 1.6m from DDH 11-6, and 1.07 g/t Au over 10.65m from DDH 11-7 (*Pautler, 2012*). A Jurassic aged intrusion also hosts mineralization at the Jual gold occurrence, 4 km west of the Dime Project with reported values of 1.6 g/t Au over 25m, including 11.1 g/t Au over 3m from trenching (*Pautler, 2001*). An orogenic model has also been interpreted for these occurrences (*Murray Allan, personal communication*). The author documented the above information, but it is not necessarily indicative of the mineralization on the Loonie Project which is the subject of this report.

The Guilder copper \pm gold soil anomaly at Loonie lies 10 km northwest of, and along the same mineralized northwest trending magnetic lineament hosting, Lucky Joe, a copper-gold porphyry drilled prospect. Historic drilling on the Lucky Joe Project, owned by Golden Predator Mining Corporation, has identified copper grades from 0.35% Cu to 0.6% Cu over intervals of 20 to 30m (maximum 0.95% Cu over 5.2m) in the 800m by 200m by 30m main mineralized zone, in which gold generally exhibits a 1:1 correlation with copper (*Deklerk, 2009*). Drilling along the 11.3 km long Lucky Joe copper-gold soil trend intersected 0.135% Cu and 0.032 g/t Au over 74.1m in DDH LJ05-03 (*Deklerk, 2009*). The author has not been able to independently verify the above information and it is not necessarily indicative of the mineralization on the Loonie Project which is the

subject of this report. The Guilder and southeast Peso, which includes the LZ Cu showing, have potential to host mineralization of the copper-gold porphyry deposit type. A lead-zinc-copper soil anomaly with peripheral gold at Loonie, south of Lucky Joe Creek, is also suggestive of volcanogenic massive sulphide (VMS) type mineralization which was discovered within the White Gold district on the Touleary property near Thistle Mountain in 2011 by Arcus Development Group Inc., returning 14.15m of 1.44% Cu, 16.5 g/t Ag and 0.77 g/t Au and 2.25m of 7.18% Cu, 116 g/t Ag, 3.55 g/t Au and 4.30% Zn (*Arcus news release, October 4, 2011*). The author has not been able to independently verify the above information and it is not necessarily indicative of the mineralization on the Loonie Project which is the subject of this report. A close spaced airborne Vertical Time Domain electromagnetic (VTEM) survey is planned later this fall to identify areas of high chargeability that may represent thicker accumulations of massive sulphide along the current mineralized trend (*Website at <http://www.arcusdevelopmentgroup.com/>*).

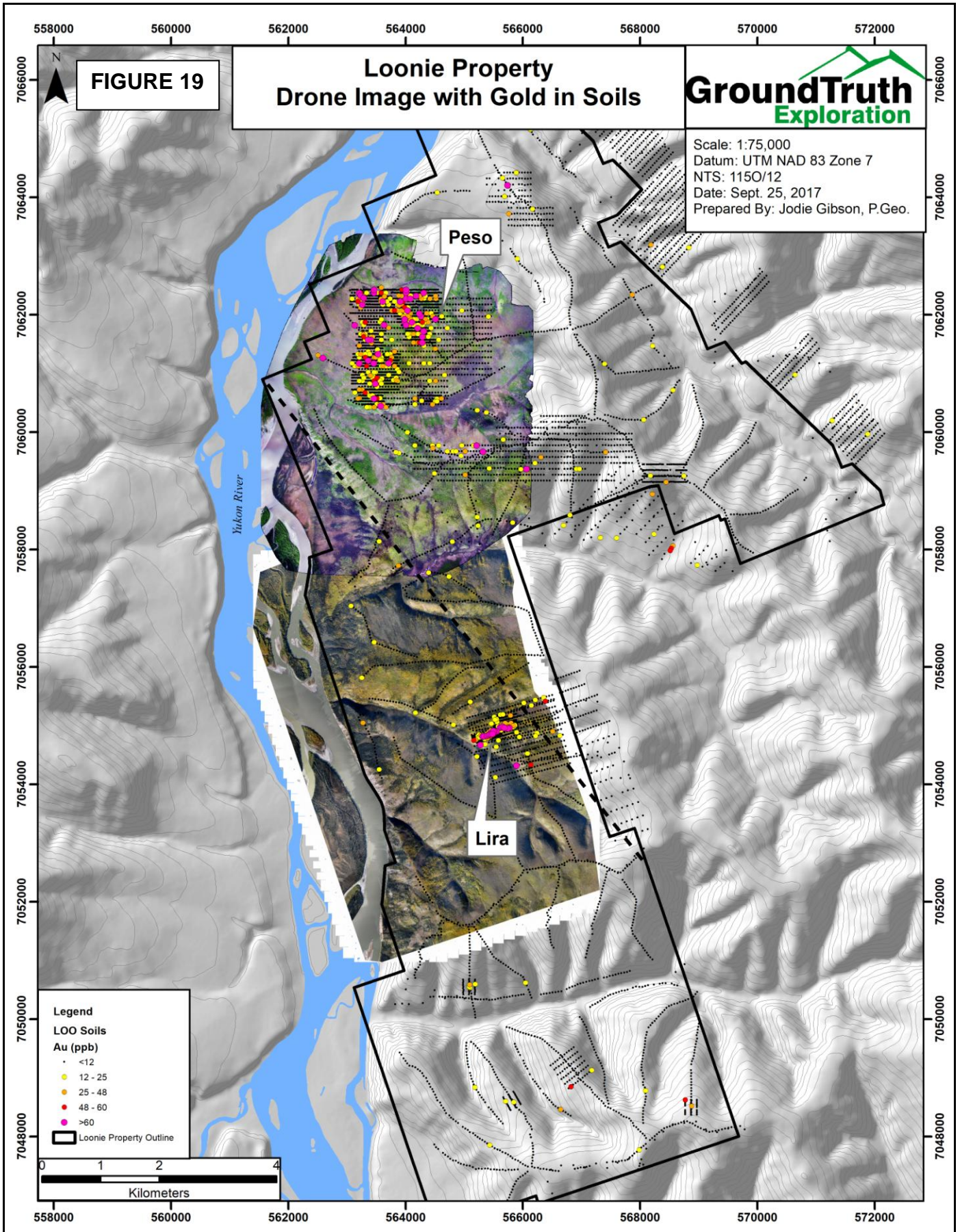
9.0 2017 EXPLORATION (Figures 19 to 25)

Exploration by White Gold Corp. on the Loonie Project in 2017 consisted of an aerial drone survey over the Peso and Guilder zones, a 146 line km airborne DIGHEM electromagnetic geophysical/magnetic survey, 1,460m of GTprobe (bedrock interface) sampling and 1,970m of rotary air blast (RAB) drilling in 30 holes on the Lira zone. All work was undertaken by, or under the direction of, GroundTruth Exploration Inc. of Dawson City, Yukon. Only the 2017 drilling has been filed for assessment and is discussed under Section 9.4, "Drilling". The remainder of the 2017 work is described below, under their respective sections, in order to integrate with the drill program and previous exploration.

9.1 Drone Aerial Photography (Figure 19)

An aerial drone survey, covering an approximate 4 by 5 km area (*Figure 19*), was undertaken for White Gold Corp. by GroundTruth Exploration Inc. of Dawson City, Yukon over the Peso and Guilder zones on the Loonie Project in 2017 to aid in geological and structural mapping, survey planning, geomorphology and provide up to date high resolution imagery and digital elevation models for control. Aerial drone imagery now covers at least 50% of the Loonie property. The survey utilized an eBee unmanned aerial vehicle (UAV) with 4 cm ground resolution. The survey image has been merged with the 2014 Lira survey in Figure 19 to provide continuity of the coverage.

A strong, persistent northwest trending structure is evident in the southwest Peso survey, which continues through to the Lira area, just east of the Lira zone. The existence of a fault to the east of the Lira zone was substantiated by prospecting in 2017 by White Gold Corp. with brecciation and alteration evident within it. Results have not been received for limited rock samples collected within the fault zone. Two GTprobe lines across the fault did not return anomalous gold results, as discussed under Section 9.3, "Probing" (*Figure 23*).



The 2017 Drone survey has not been filed for assessment so digital data has not been included in this report.

9.2 Geophysics (Figures 20-22)

White Gold Corp. contracted CGG Canada Services Ltd., an international organization with an office in Calgary, Alberta, to complete a 146 line kilometre airborne DIGHEM electromagnetic/magnetic geophysical survey in two separate blocks (Loonie North over the Peso and Loonie South over the Lira zone), with an additional 49 line kilometres as tie lines. The surveys, covering approximately 15-20% of the Loonie Project, were flown on May 27 and 28, 2017 to help identify regional scale structures, lithological contacts and characterize geophysical signatures for zones of mineralization. The survey utilized a DIGHEM multi-coil, multi-frequency electromagnetic system, supplemented by a high sensitivity magnetometer. Flight lines were flown at 045° for the Loonie North block and 340° for the Loonie South block with a line spacing of 100m and a nominal terrain clearance of 45m. General survey parameters for each are as follows:

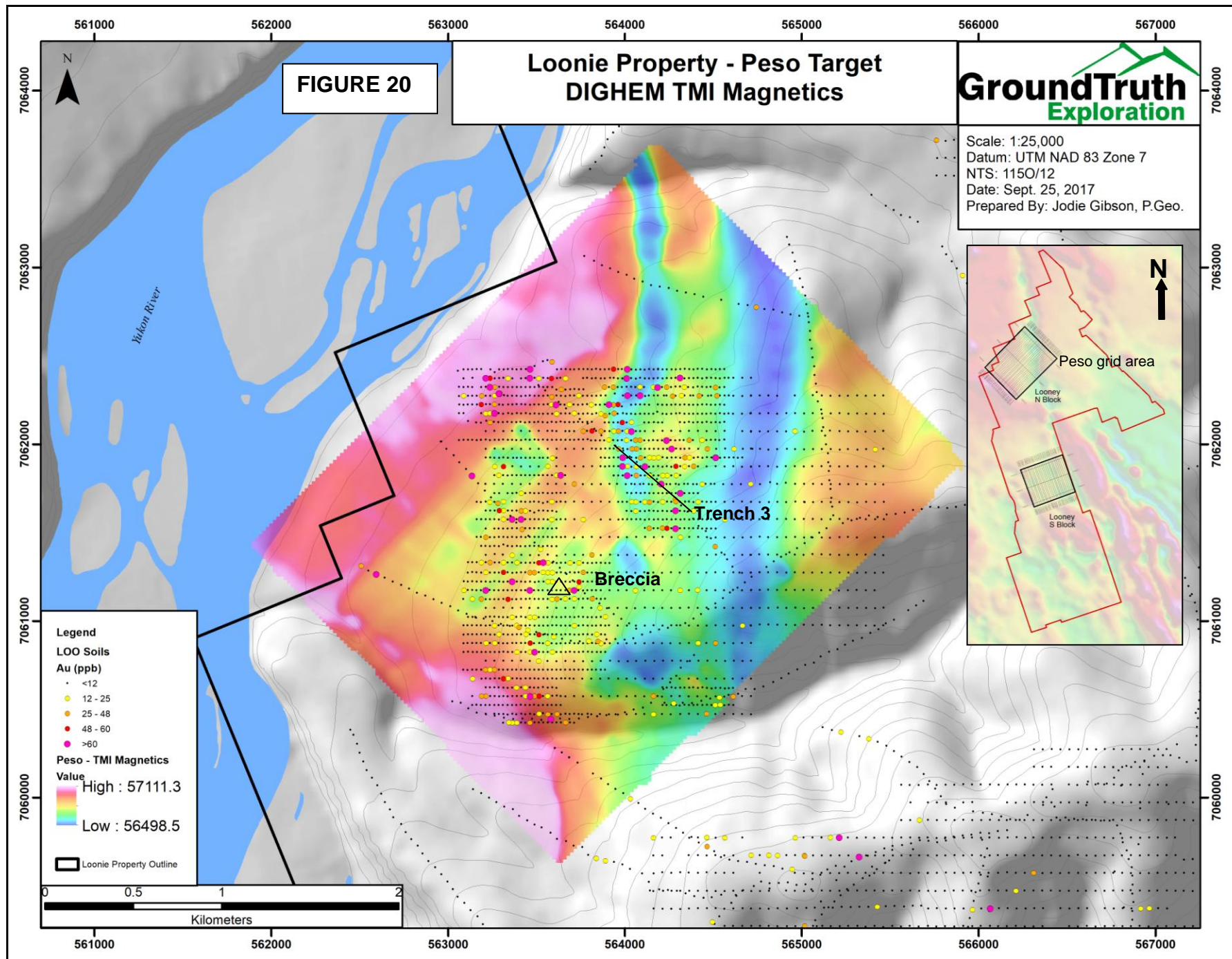
- Loonie N Block: Total 110 line-km; Flight line spacing 100m at 045°; Tie line spacing 1400m at 315°
- Loonie S Block: Total 85 line-km; Flight line spacing 100m at 340°; Tie line spacing 950m at 070°

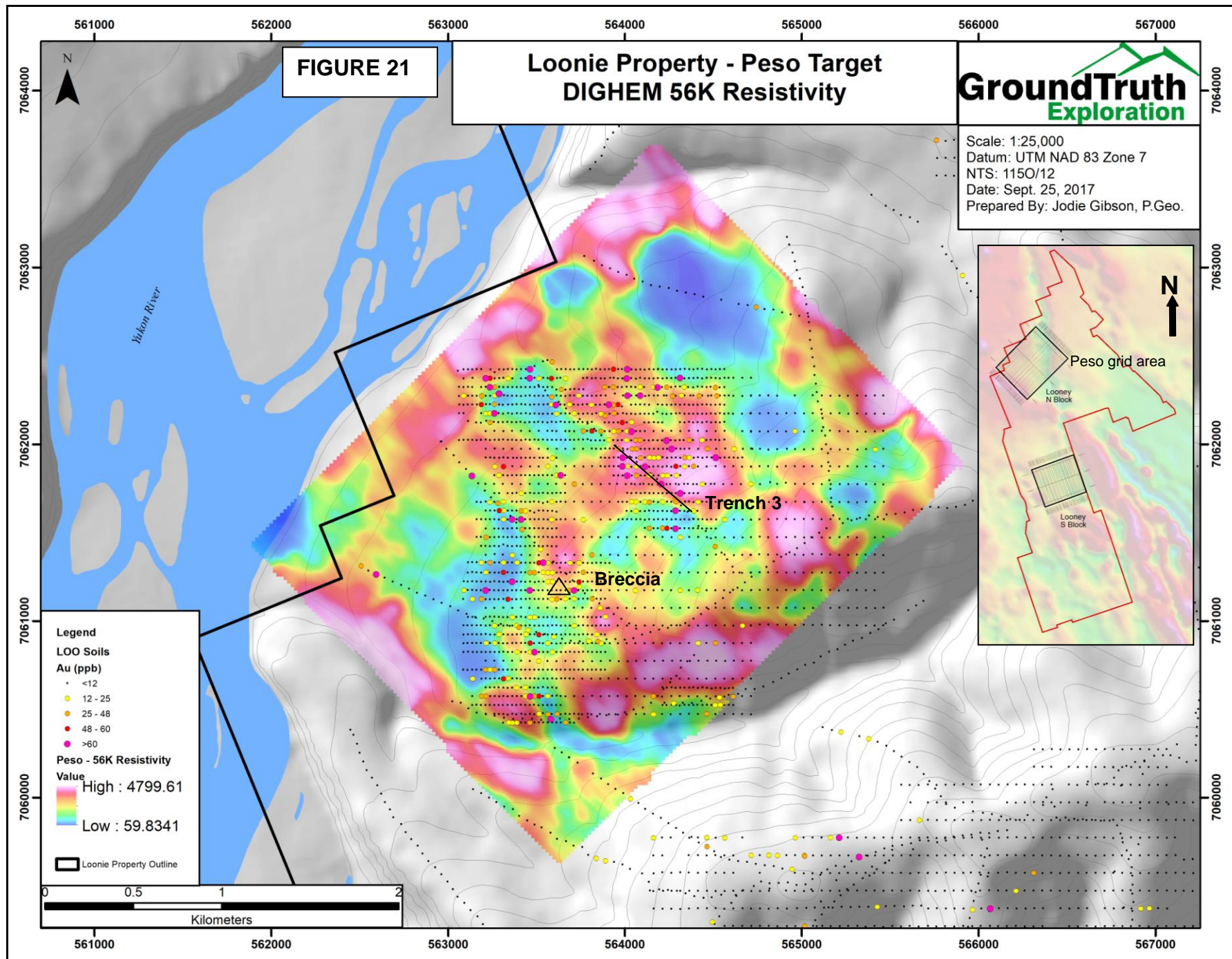
From the preliminary data, the Peso magnetic survey (*Figure 20*) mimics the linear northerly trending magnetic lows, evident in the previous ground survey, which appear to be due to dykes (quartz feldspar porphyry dykes of probable Eocene age were identified in the western end of Trench 3). This dyke appears to curve in this area (possibly around a Jurassic intrusion which was partly exposed in the trenches here) and anomalous gold in soil values mimic this curvature. The southern disruption along this dyke, represented by the magnetic low anomaly, may be related to the possible thrust fault, thought to be defined by the quartzite breccia. The survey further resolves the magnetic signature further to the west with at least three northeast trending lower order magnetic highs, which appear to be associated with gold in soil anomalies. Strong magnetic highs occur in the northwest and southwest Peso survey, possibly indicative of the mafic orthogneiss (**MSR**).

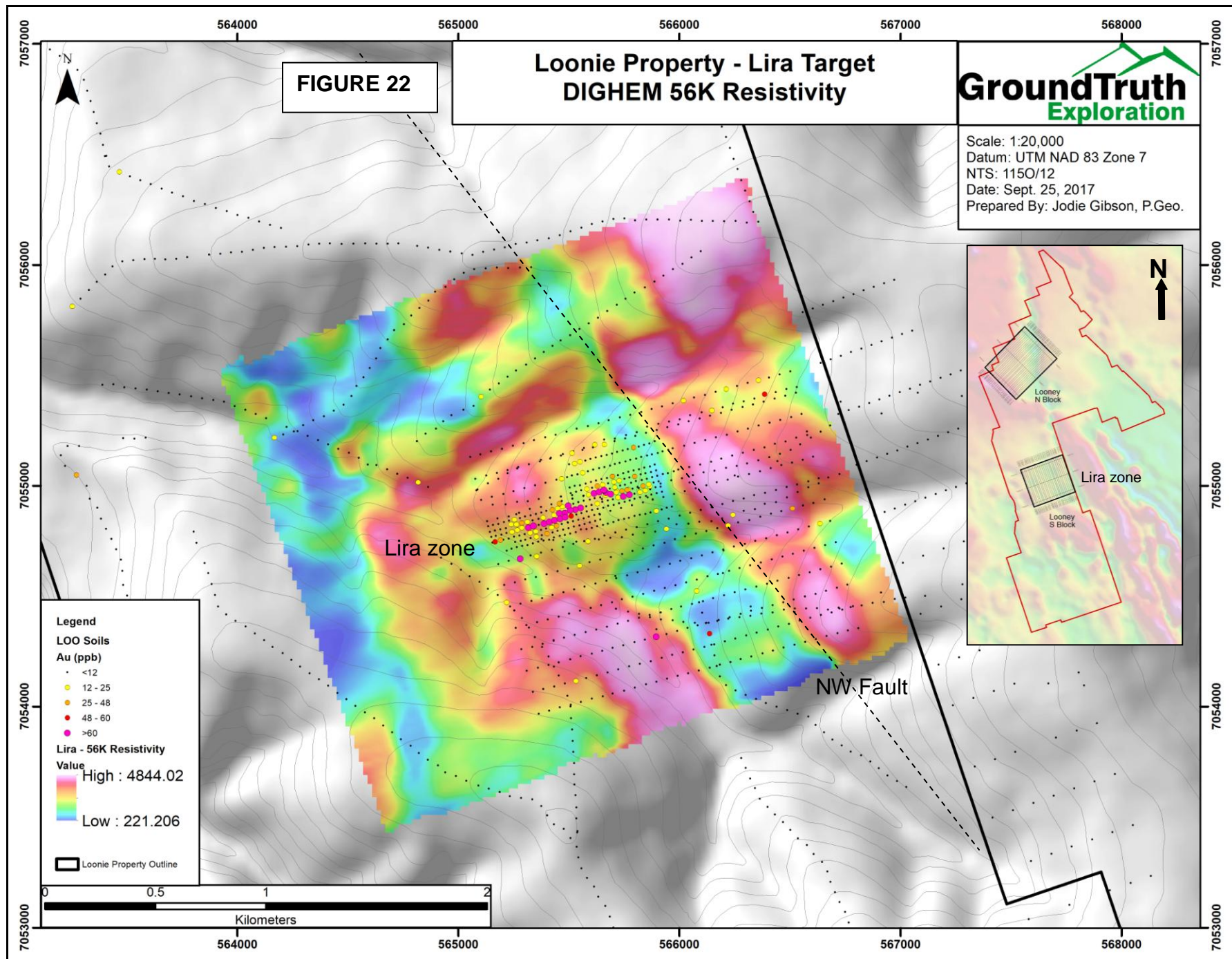
The soil anomalies in the Trench 1-3 area occur within a somewhat circular resistivity high anomaly following the same magnetic low pattern observed in the magnetic survey (*Figure 21*). The western Peso gold in soil anomalies occur within resistivity lows (*Figure 21*).

The east-northeast trending Lira zone follows a resistivity low anomaly, which may be offset by the northwest fault at its eastern end (*Figure 22*).

The 2017 DIGHEM survey has not been filed for assessment so digital data has not been included in this report.







9.3 Probing (Figure 23)

A total of 1460m of probing was completed along 8 lines between June 21 and 29, 2017 on the Loonie Project using a GTprobe bedrock interface probe by GroundTruth Exploration Inc. of Dawson City, Yukon, for White Gold Corp. Geoprobe sampling utilizes a remote controlled tracked vehicle with attached probe which samples the bedrock interface with minimal footprint, particularly effective in areas of thicker overburden and permafrost. A total of 300 samples were collected at 5m intervals, with an additional 12 samples collected for quality assurance and quality control as described under Section 11.0, "Sample Preparation, Analysis And Security". Depths ranged from 0.5 to 3.1m, averaging 1.5m. The lines covered the eastern extent of the Lira vein system over the gold soil geochemical anomaly from 2011-2012, and further east across both a northwest trending fault, identified in the aerial drone survey, and the strike projection of the extent of the Lira zone. Probe line specifications and significant results are summarized in Table 4 below.

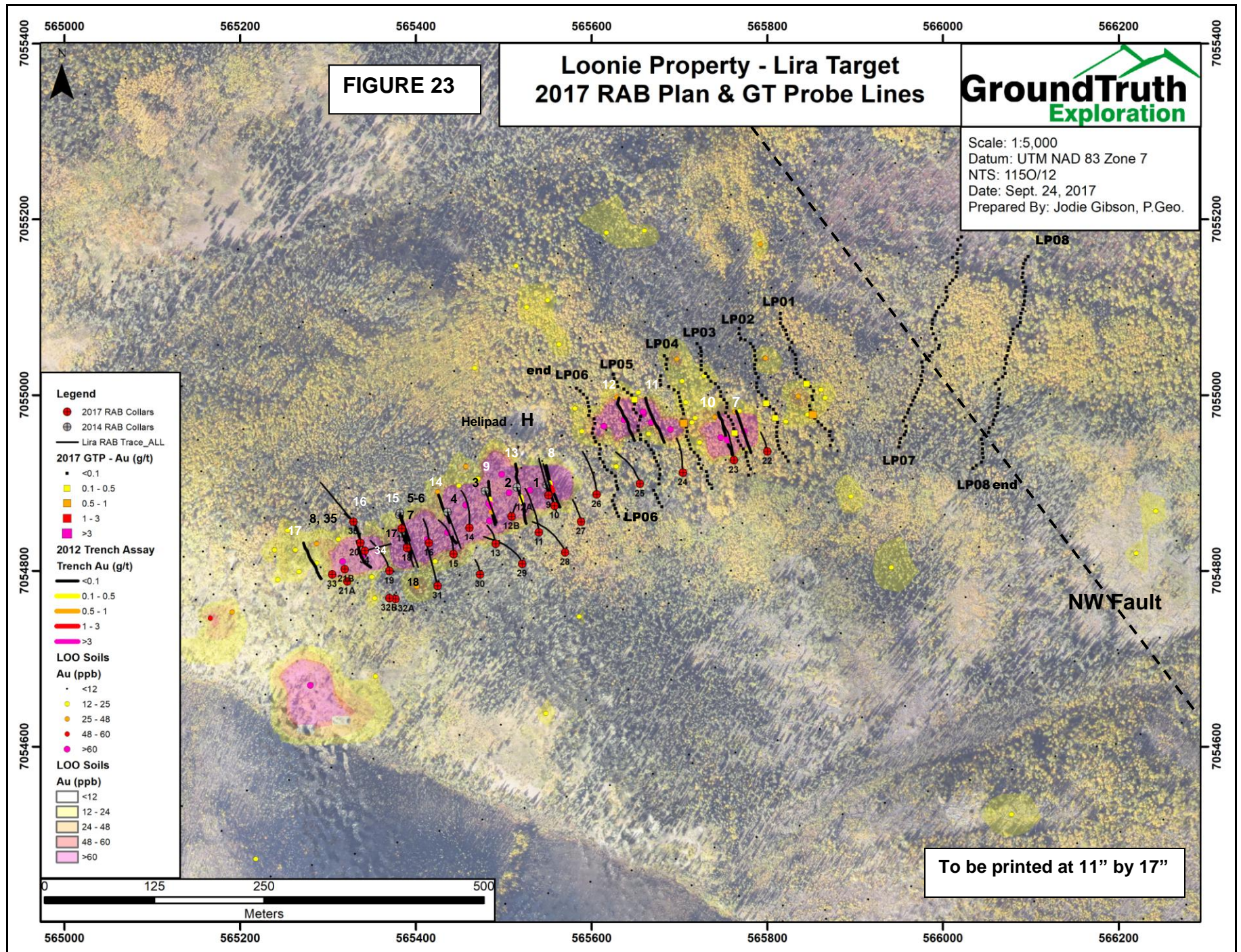
TABLE 4: GTprobe specifications and significant results

Line No.	Nad 83 Easting	Zone 7 Northing	Az. (°)	Length (m)	Sample Number	No.* of Samples	Stn. (m)	Au g/t
LP01	565872	7054943	340	160	1625288-321	34	40 75	0.628 0.109
LP02	565824	7054925	340	160	1625322-56	35	50 70	0.129 0.471
LP03	565779	7054909	340	160	1625357-90	34	50	0.16
LP04	565737	7054894	340	160	1625391-424	34	80	0.502
LP05	565680	7054873	340	160	1625425-59	35	125	0.119
LP06	565583	7055008	160	160	1625460-93	34		NSR
LP07	565950	7054941	015	250	1625494-500,1601001-46	53		NSR
LP08	566097	7055158	195	250	1601047-99	53		NSR
TOTAL				1460		312		

* includes 12 QAQC samples (6 standards & 6 blanks), NSR denotes no significant results

Seven samples returned greater than 0.10 g/t Au, with two anomalies evident on lines LP01 and LP02. The anomalies may represent two veins, represented by the GTprobe intersections on lines LP03 to LP05, diverging from a single Lira vein to the west. The intersections closely follow the gold in soil anomaly and previous low anomalous trench intersections in LOOTR12-07, 11-12. The 0.16 g/t Au intercept on line LP03 lies proximal to a significant trench intercept of 3.33 g/t Au over 5m in LOOTR12-10. The lack of an intersection on line LP06 suggests a sinistral displacement of the vein system here. A northerly trending fault was suggested in the ground magnetic survey over the Lira zone, but with a dextral sense of offset (*Figure 13*). Samples from lines LP07 and LP08, testing the northwesterly trending fault identified from the aerial drone image (*Figure 17*) did not return anomalous gold results.

The 2017 Probe survey has not been filed for assessment so complete data and assay certificates have not been included in this report.



9.4 DRILLING (Figures 23-28)

A total of 613m of rotary air blast (RAB) drilling in 8 holes was previously completed on the Lira zone of the Loonie Project from September 13 to 23, 2014 by Geo Zone Exploration Limited. The drilling covered a 230m strike extent of the 400m long, 070° trending zone of gold mineralization defined by trenching (*Figure 10*). The vein was interpreted to dip fairly steeply, with lithology dipping shallowly to the northwest. White Gold Corp. completed 1,970m of rotary air blast drilling in 30 holes on the Lira zone from June 9 to July 4, 2017 to test an alternate interpretation of the dip of the zone (moderate to steep south-southeast) along the entire strike length of the vein system, following a structural analysis in 2016 by Michael Cooley for White Gold Corp. Both the 2014 and 2017 drill programs will be discussed here for integration purposes.

Both drill programs were completed by GroundTruth Exploration Inc. of Dawson City, Yukon using their remote controlled, tracked, air/hydraulically operated rotary air blast (RAB) drill with a 44 hp turbo charged Kubota diesel engine. The drill uses a stationary 300/200 compressor and a 90 mm COP32 hammer. Drill rods are 1.5m long, drill hole diameter is 8.88 cm and chips range in size from powder to 3/8". The drill was mobilized and demobilized to/from the site by helicopter from a staging area 20 km to the north, with no helicopter support required between holes.

Chip trays are stored at the premises of GroundTruth Exploration Inc., Dawson City, Yukon Territory and complete sets of bagged duplicate samples for each drill hole are stored at each respective drill site for future use if necessary. All drill sites except 17LOO031 were inspected by the author during a site examination on September 3, 2017, following the completion of all work on the Loonie Project, and on September 17 to 18, 2014 to review drill progress, examine chips, site in the remainder of the holes and collect data and samples. The author re-logged chip trays from all 2014 drill holes in Dawson City and reviewed select intervals of the 2017 holes.

Drill hole specifications are summarized in Tables 5 and 6, below with drill hole locations shown in Figure 23, a longitudinal section in Figure 24 and cross sections in Figures 25-28.

Table 5: 2014 RAB drill specifications

Hole Number	Nad 83 Easting	Zone 7 Northing	Elev. (m)	Az. (°)	Dip (°)	Length (m)	Samples *	
							Numbers	No.
LOORAB14-01	565549	7054898	621	160	-65	76.2	1367801-1367854	54
LOORAB14-02	565515	7054895	621	160	-60	60.96	1367855-1367897	43
LOORAB14-03	565479	7054891	622	160	-60	76.2	1367898-1367951	54
LOORAB14-04	565436	7054867	614	160	-55	76.2	1367951-1368000, 1265686-1265689	53
LOORAB14-05	565381	7054864	604	160	-50	99.06	1346001-1346069	69
LOORAB14-06	565382	7054866	602	160	-70	99.06	1346070-1346139	70
LOORAB14-07	565384	7054843	593	160	-50	60.96	1346140-1346183	44
LOORAB14-08	565329	7054856	583	160	-50	64.01	1336184-1346228	45
TOTAL						612.65		432

* includes 30 QAQC samples (10 standards, 11 blanks and 9 duplicates)

Table 6: 2017 RAB drill specifications

Hole Number	Nad 83 Easting	Zone 7 Northing	Elev. (m)	Az. (°)	Dip (°)	Length (m)	Samples *	
							Numbers	No.
17LOO009	565551	7054886	628	345	60	88.392	1600097-157	65
17LOO010	565558	7054874	624	345	60	100.58	1600158-227	74
17LOO011	565540	7054844	617	345	60	100.58	1600228-250, 1540001-46	72
17LOO012-A	565509	7054862	616	345	60	10.67	1540047-53	7
17LOO012-B	565509	7054862	616	345	60	30.48	1540054-74	12
17LOO013	565491	7054831	596	345	60	48.77	1540075-108	36
17LOO014	565461	7054849	594	345	60	100.58	1540109-177	72
17LOO015	565443	7054819	586	345	60	100.58	1540178-247	74
17LOO016	565415	7054832	581	345	60	59.44	1540248-288	43
17LOO017	565384	7054848	576	345	60	30.48	1540289-309	22
17LOO018	565390	7054826	573	345	60	60.96	1540310-351	44
17LOO019	565370	7054800	569	345	60	91.44	1540352-414	66
17LOO020	565337	7054832	566	345	60	100.58	1540415-484	74
17LOO021-A	565322	7054788	554	345	60	15.24	1540485-94	10
17LOO021-B	565319	7054802	554	345	60	10.67	1540495-501	8
17LOO022	565800	7054936	665	345	60	45.72	1540502-32	32
17LOO023	565762	7054926	659	345	60	100.58	1540533-602	74
17LOO024	565704	7054912	648	345	60	100.58	1540603-671	72
17LOO025	565655	7054899	640	345	60	100.58	1540672-741	74
17LOO026	565606	7054887	630	345	60	100.58	1540742-810	73
17LOO027	565588	7054856	615	345	60	51.82	1540811-846	38
17LOO028	565570	7054821	605	345	60	100.58	1540847-915	73
17LOO029	565521	7054808	598	345	60	100.58	1540916-985	74
17LOO030	565473	7054796	590	345	60	36.58	1540986-1541010	26
17LOO031	565425	7054783	576	345	60	100.58	1541011-080	74
17LOO032-A	565377	7054768	566	345	60	12.19	1541081-088	8
17LOO032-B	565370	7054769	565	365	60	9.14	1541089-094	6
17LOO033	565305	7054796	555	345	60	9.14	1541095-101	8
17LOO034	565342	7054823	568	75	60	60.96	1541102-143	45
17LOO035	565329	7054856	568	320	50	91.44	1541144-206	66
TOTAL						1970.49		1422

* includes 71 QAQC samples (35 standards & 36 blanks)

Recovery averaged 19.6 litres of material, approximately 98% for the 2014 holes and most of the 2017 holes. Recovery problems were encountered in holes 17LOO012-A & B, 17LOO021-A & B, 17LOO032-A & B and 17LOO033, which did not reach target depth due to ground conditions. Since the mineralized zone was not encountered the poor recoveries do not have an impact on sample results of mineralized intervals. The western end of the Lira zone was not tested due to poor ground conditions which resulted in the loss of holes 17LOO021-A & B and 17LOO033 (*Figure 24*).

Two main lithologies were intersected in drilling, a felsic (quartz-feldspar-biotite) gneiss that correlates with the felsic feldspar augen orthogneiss, the main unit exposed in the 2012 trenches and a biotite (\pm feldspar) schist, which correlates with a metasedimentary unit exposed in the southern ends of trenches TR12-7 and TR12-15, and the northern ends of trenches TR12-9 and TR12-13. Feldspar augens were not detectable in the chips of felsic orthogneiss, which may be a meta-intrusion, due to the small chip size.

The felsic gneiss was intersected in all of the 2017 drill holes and in the top of all 2014 drill holes, except for RAB14-04, where it was intersected near the centre of the hole. Biotite schist dominates in the bottom of the 2014 holes, intercalated with minor intervals of felsic schist in RAB14-05, -07 and -08. Minor intervals of felsic schist dominated by muscovite as opposed to biotite were also intersected in the top of RAB14-04. The felsic schist is currently thought to represent more felsic intervals within the metasedimentary package, but may also represent alteration. RAB drill results are summarized in Table 7 below and are graphically shown on select sections (*Figures 24-28*).

Table 7: RAB drill results

Hole No.	From (m)	To (m)	Au (g/t)	Length (m) *	Target (g/t Au/m)	Description
LOORAB14-01	0	12.2	4.93	12.2	below TR8 1.13/10	silicified (sil), muscovite (musc), hematite altered felsic gneiss, ± quartz (qtz) stringers (strs) also includes some breccia
including	0	9.1	6.46	9.1		
including	6.1	9.1	10.8	3.0		
including	7.6	9.1	20.7	1.5		
LOORAB14-03	1.5	10.7	0.323	9.2	TR9 1.61/15	bleached to sil, ± muscovite ± clay altered felsic gneiss, ± qtz str
including	3.0	10.7	0.368	7.7		
LOORAB14-04	24.4	36.6	0.353	12.2	gap in TR14	muscovite altered felsic gneiss, minor dyke, ±silicified ±clay also includes quartz stringers
including	35.0	36.6	1.88	1.6		
LOORAB14-05	no significant results				TR15 22.5/5	thick section of biotite schist within zone
LOORAB14-06	no significant results					
LOORAB14-07	12.2	16.8	0.515	4.6	0.79 soil anomaly	muscovite altered felsic gneiss, dyke, ± sil, minor quartz str
LOORAB14-08	1.5	32.0	0.627	30.5	strike extent of Tr15 north of Tr16	mostly bleached to silicified ± muscovite altered felsic gneiss, (±dyke?) also includes quartz stringers felsic schist with muscovite (±dyke?)
including	7.6	24.4	0.899	16.8		
including	18.3	24.4	1.76	6.1		
including	19.8	24.4	2.11	4.6		
and	42.7	47.2	1.25	4.5		
17LOO009	0.0	7.6	4.6	7.6	below RAB14-01	silicified, hematite (hem) altered felsic gneiss
including	6.1	7.6	17.1	1.5		
17LOO016	13.7	21.3	0.6	7.6	between TR14 & 15	sil, lim altered felsic gneiss, sulphide (sx)
Including	13.7	16.8	1.2	3.0		
17LOO017	0.0	7.6	1.9	7.6	below TR15 22.5/5	sil, limonite, hem altered felsic gneiss, sulphide (sx)
Including	0.0	4.6	3.0	4.6		
Including	1.5	3.0	6.4	1.5		
17LOO018	9.1	21.3	0.8	12.2	below 17LOO017	sil, hem altered felsic gneiss, sulphide (sx)
Including	15.2	21.3	1.9	4.6		
Including	15.2	16.8	4.2	1.5		
17LOO023	25.9	27.4	3.5	1.5	TR10	sil, lim altered felsic gneiss, ser
17LOO025	64.0	71.6	4.1	7.6	below TR12	limonite, hem altered felsic gneiss, sulphide (sx)
including	64.0	65.5	11.5	1.5		
17LOO026	64.0	65.5	4.3	1.5	W of TR12	sil, limonite altered felsic gneiss
17LOO034	0.0	1.5	6.7	1.5	TR16	sericite, hem altered felsic gneiss
17LOO035	3.0	7.6	5.2	4.6	RAB14-08 0.9/16.8	sil, hem altered felsic gneiss sulphide (sx)
Including	3.0	4.6	9.3	1.5		

* Insufficient information is available to estimate the true thickness of these intercepts and, as such, the true thickness may be less than the down-hole length intercept reported above.

Significant gold values are associated with quartz (silicification and quartz stringers), muscovite-sericite alteration, local brecciation, pyrite (commonly oxidized) and possible

shearing and accompanied by anomalous tellurium, bismuth, mercury, silver and lead ±copper. There is a direct correlation between higher gold values and the presence of quartz stringers and overall a close association with the presence of limonite and hematite. The highest gold intercept of 20.7 g/t Au over 1.5m is the only interval where breccia was detected and was accompanied by 127.7 ppm Te, 28.9 ppm Bi, 3.85 ppm Hg, 6.4 ppm Ag and 23.4 ppm Pb. Mineralization is preferentially hosted within the felsic gneiss unit with some mineralization possibly occurring within narrow feldspar ±quartz porphyry dykes, and within one interval of felsic schist (lower intersection in LOORAB14-08, which may actually represent sheared and muscovite altered felsic gneiss).

The best gold intercept from the RAB drill program was 4.93 g/t Au over 12.2m, including 20.7 g/t Au over 1.5m in LOORAB14-01, vertically below the Trench 8 intercept of 1.13 g/t Au over 10m, including 2.03 g/t Au over 5m. Hole 17LOO009 was drilled from the south and intersected similar results in the top of the hole of 4.6 g/t Au over 7.6m, including 17.1 g/t Au over 1.5m. The zone here appears to dip northerly, since holes 17LOO010 and 28 did not appear to intersect the zone (*Figure 27*).

17LOO025 and 26 intersected mineralization within a gap in soil geochemistry between Trenches 8 and 12 with results of 4.1 g/t Au over 7.6m, including 11.5 g/t Au over 1.5m and 4.1 g/t Au over 1.5m, respectively (*Figure 24*). Based on soil geochemistry this zone may dip southerly (*Figure 23*). It may represent an offset continuation of the vein intersected in LOORAB14-01 and 17LOO009 or another zone.

17LOO017 and 18 were successful in intersecting the mineralized zone below the high grade trench intercept of 13.3 g/t Au over 10m, including 25.2 g/t Au over 5m from Trench 12-15, indicating a dip of 55° south-southeast (*Figure 26*).

LOORAB14-08 intersected significant results of 0.90 g/t Au over 16.8m, including 2.11 g/t Au over 4.6m, 50m further along strike to the west from the high grade trench intercept of 25.2 g/t Au over 5m in Trench 12-15. The top of 17LOO035 intersected 5.2 g/t Au over 4.6m, including 9.3 g/t Au over 1.5m (*Figure 25*). Another zone was intersected just below Trench 16 returning 6.7 g/t Au over 1.5m. It appears that two zones occur here that may dip 45-50° south-southeast (*Figure 25*).

There appears to be at least two or three different mineralized segments with variable dips along the Lira shear zone. Within the White Gold district lithology plays a key role in terms of both favourable host rock (competent felsic orthogneiss) and folding within it. Strong evidence exists from recent work that the thickest and strongest zones of mineralization at Golden Saddle are associated with the intersection of mineralized structure(s) with S2 fold hinges within brittle host rocks and/or at lithologic contacts (*Cooley, personal communication*). Further work is necessary to evaluate and interpret the controls to mineralization within the Lira system.

Drill sampling methods are discussed under Section 10.0, "Sample Preparation, Analyses And Security", below.

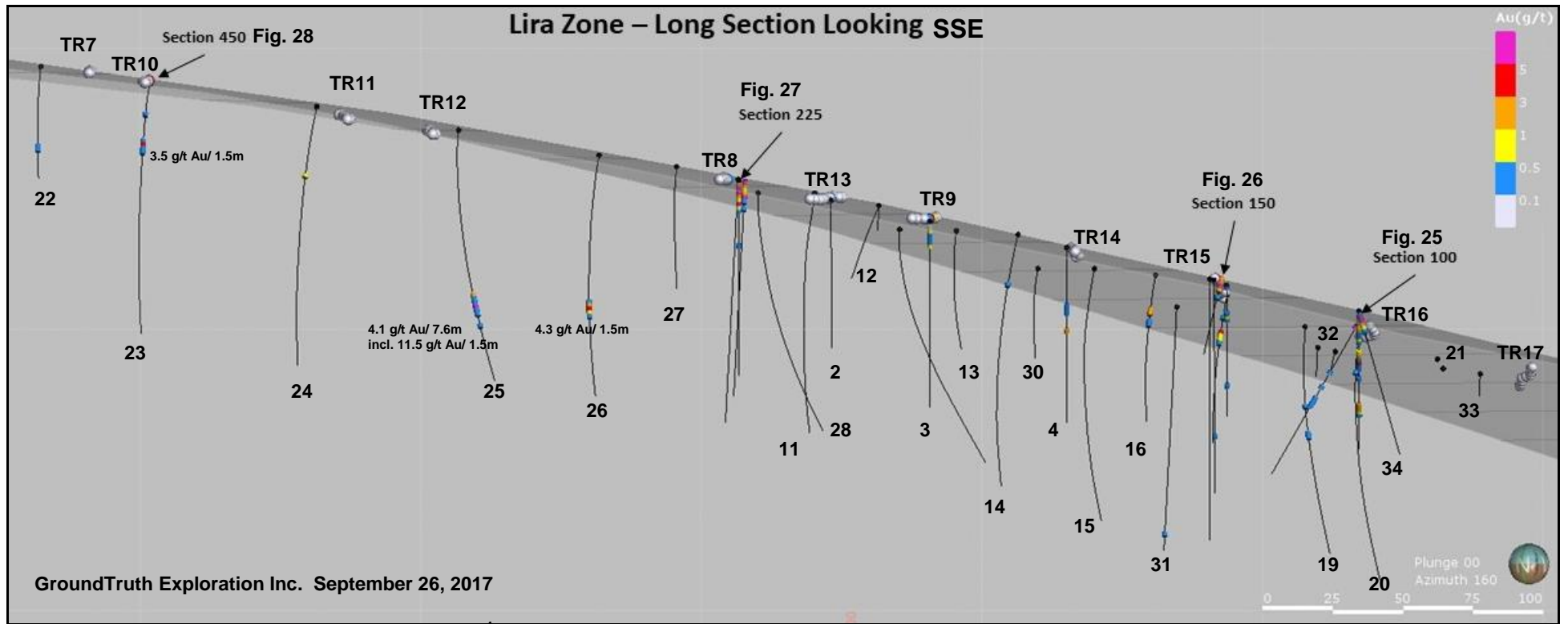


FIGURE 24: Lira Longitudinal RAB Drill Section

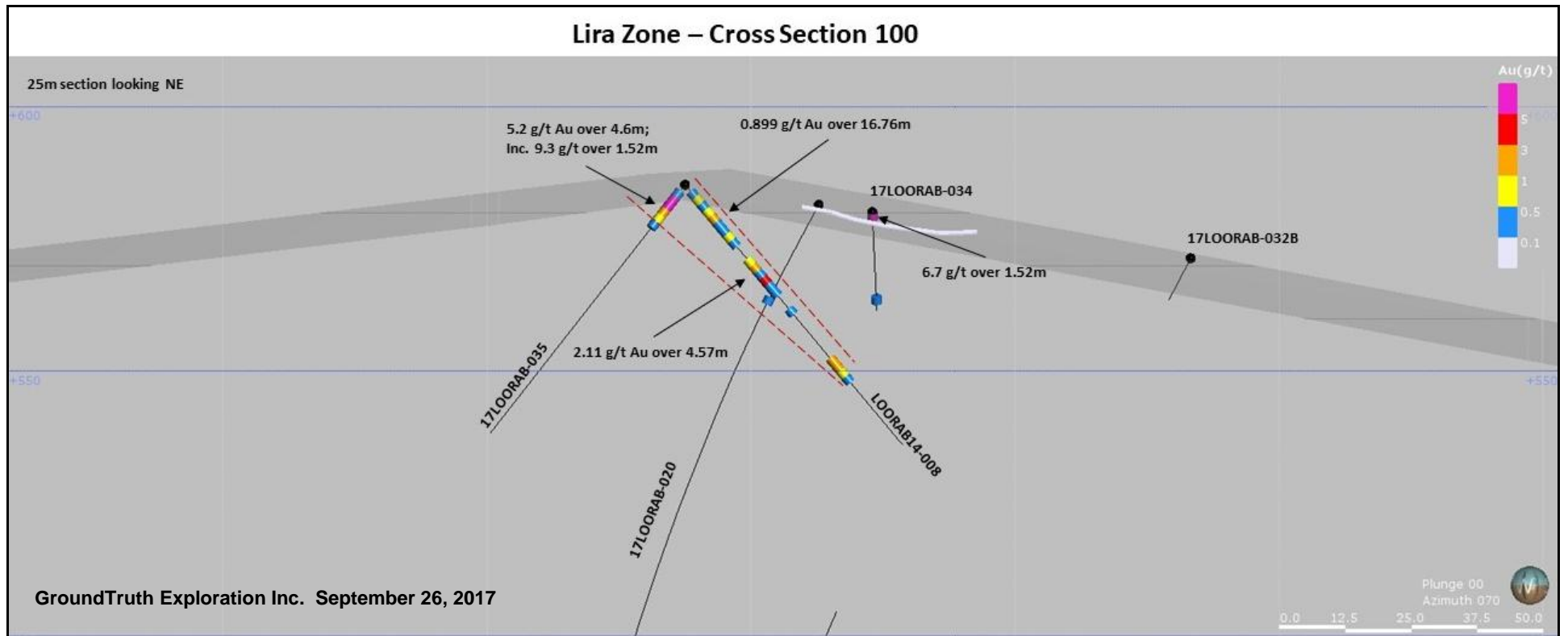


FIGURE 25: Lira RAB Drill Cross Section 100

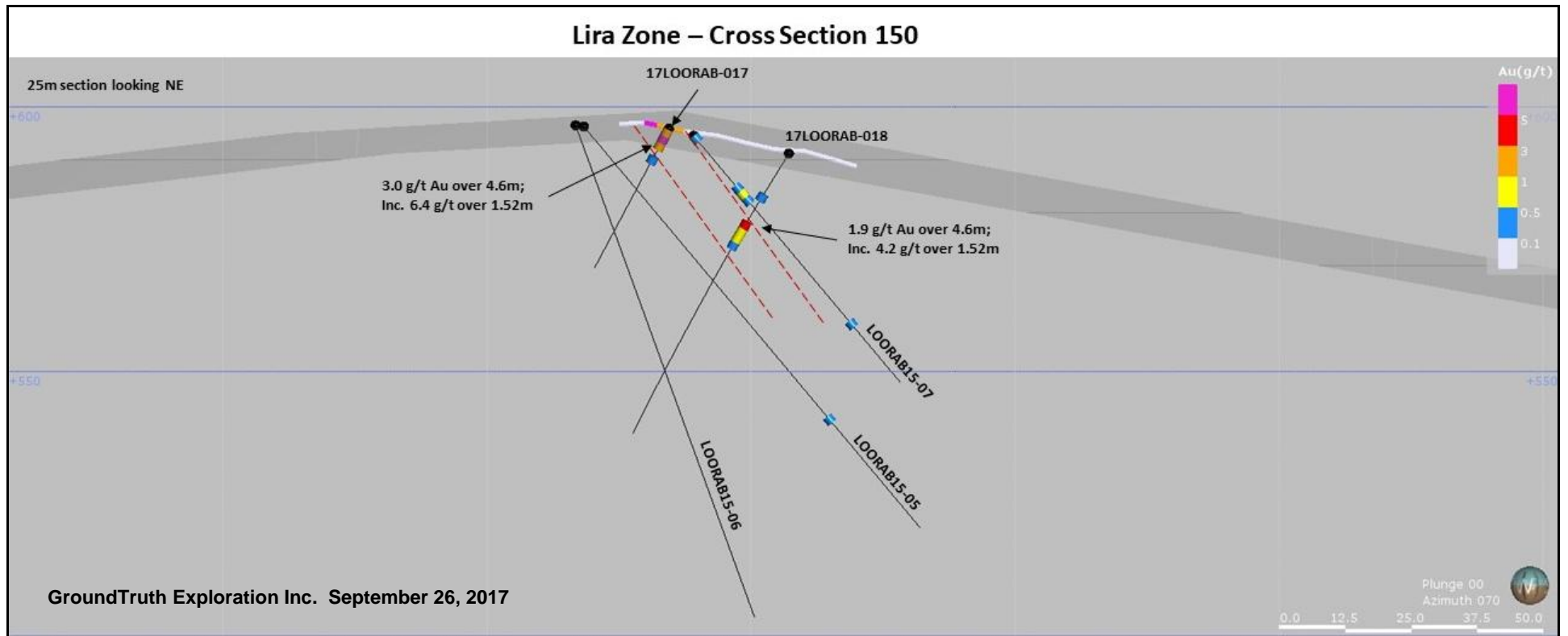


FIGURE 26: Lira RAB Drill Cross Section 150

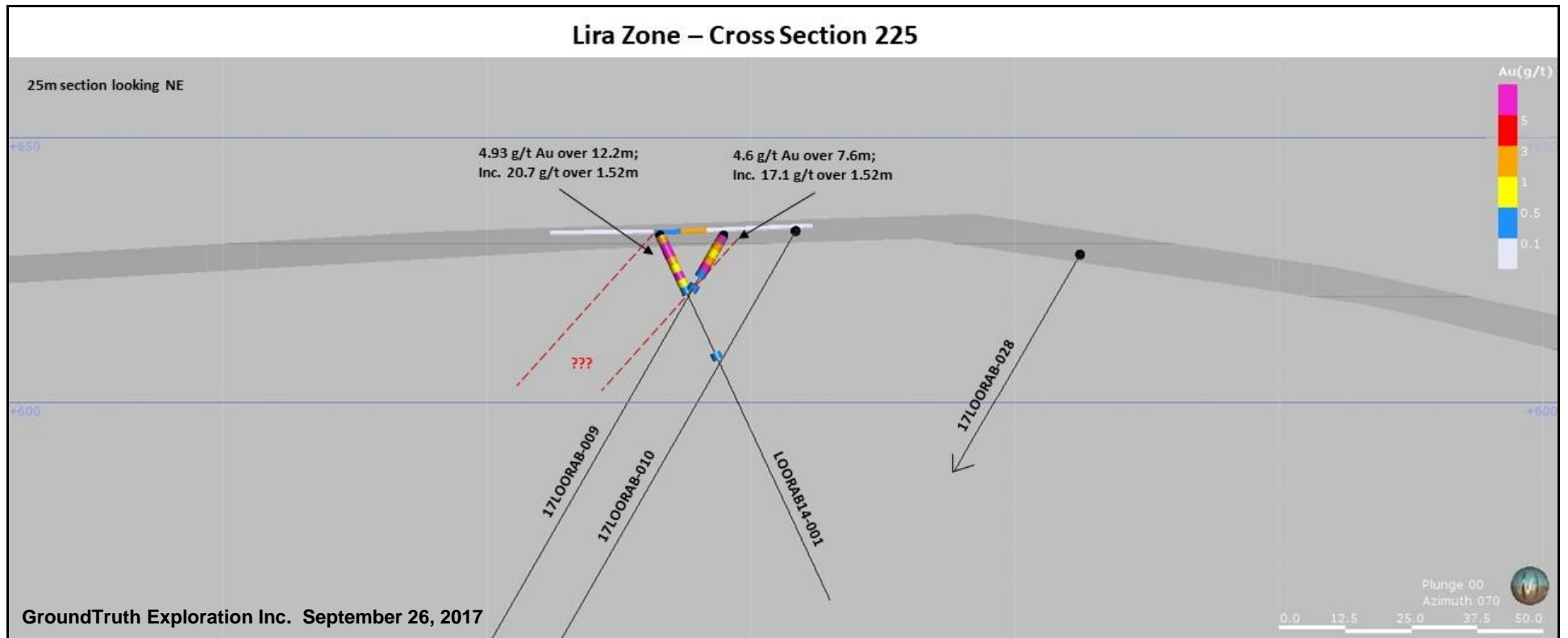


FIGURE 27: Lira RAB Drill Cross Section 250

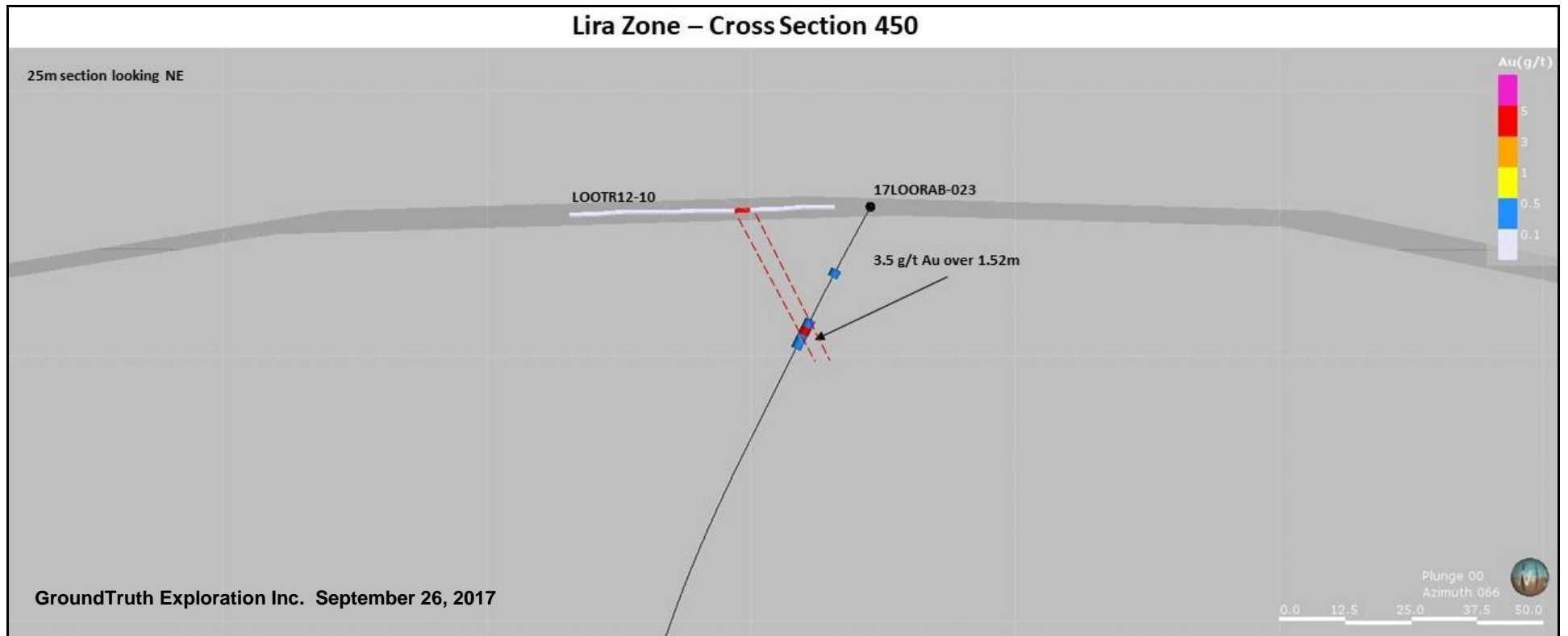


FIGURE 28: Lira RAB Drill Cross Section 450

10.0 SAMPLE PREPARATION, ANALYSIS AND SECURITY

All RAB samples from the 2014 and 2017 programs were collected at 1.5m intervals, logged, photographed and representative chips catalogued in chip trays for future reference. Cuttings are deposited from cyclone into a 20 litre bucket, which is dumped into an 8:1 splitter, with approximately 2.25 kg bagged as a sample and the remainder deposited into a retention bucket from which another 2.25 kg is bagged as a duplicate for retention and a small plastic container of chips is collected, dry and then wet sieved, and washed chips catalogued in chip trays. Remainder of retention bucket is discarded. Buckets and splitter are cleaned with pressurized air. Analytical sample is bagged in a 12"x20" ore bag, sample ID barcode inserted into bag and sealed with zip tie with external barcode sample ID attached.

The samples were logged on site by the geologist/sampler on the drill crew, who was Matt Hanewich in 2017 and Matthias O'Donnell in 2014. All 1.5m intervals in each drill hole were sampled, resulting in 402 samples in 2014 and 1351 samples in 2017.

A total of 30 quality assurance and quality control (QAQC) samples, consisting of 11 blanks, 10 standards and 9 duplicates, were inserted for quality control in 2014, and 71 QAQC samples, consisting of 36 blanks and 35 standards, were inserted in 2017 by GroundTruth Exploration Inc. personnel. The blank used in both programs was CDN-BL-10 (<0.01 g/t Au), consisting of granitic material (<http://www.cdnlabs.com/Certificates.htm>). The standard used in the 2014 program was CDN-GS-2K (1.97 ± 0.18 g/t) and standards CDN-GS-5U (5.20 g/t ± 0.27 g/t) and CDN-GS-P4F (0.498 g/t ± 0.056 g/t) were used in 2017 (<http://www.cdnlabs.com/Certificates.htm>). The standards and blanks returned results within acceptable limits. This indicates that the analytical results had an acceptable degree of precision and were free from contamination during sample preparation.

All drill samples were delivered by GroundTruth Exploration Inc. to the sample preparation facility of Bureau Veritas Mineral Laboratories (BVML) in Whitehorse, Yukon via Kluane Freight Lines Ltd. Samples were prepared, then internally sent to BVML's Vancouver, British Columbia facility for analysis. Sample preparation involved crushing 1 kg to 70% passing through 10 mesh, split 250g and pulverize to 85% passing through 200 mesh (PRP70-250).

Gold in all drill samples was analyzed by BVML's Group FA430 analysis, which involves a fire assay pre-concentration with an atomic absorption spectrometry (AAS) finish on a 30g sample. Over limit gold values were assayed by fire assay with a gravimetric finish. All 2017 and almost half of the 2014 samples were analyzed for Al, Sb, As, Ba, Bi, B, Cd, Ca, Cr, Co, Cu, Ga, Au, Fe, La, Pb, Mg, Mn, Hg, Mo, Na, Ni, P, Ag, K, Sc, Se, Sr, S, Te, Tl, Th, Ti, W, V and Zn by BVML's Group AQ200 analysis, a 36 element ICP package which involves a nitric-aqua regia digestion and mass spectrometry finish on a 0.5g sample, and the remaining 2014 samples were analyzed for 45 elements (32 of the above, with no B, Ga, Au, and Hg, and Be, Ce, Hf, In, Li, Nb, Rb, Re, Ta, Sn, U, Y and Zr added) by a 4 acid digestion ICP-mass spectrometry analysis on a 0.25g sample.

Quality control procedures were also implemented at the laboratory, involving the regular insertion of blanks and standards and check repeat analyses and resplits (re-analyses on the original sample prior to splitting). There is no evidence of any tampering with or contamination of the samples during collection, shipping, analytical preparation or analysis. All sample preparation was conducted by the laboratory. The laboratory is entirely independent from the issuer. Bureau Veritas Mineral Laboratories is, and Acme was, an ISO 9001 accredited facility. In the author's opinion the sample preparation, security, and analytical procedures were entirely adequate.

A sampling protocol should continue to be implemented by White Gold Corp., involving the routine and regular insertion of blanks, standards and duplicates sent to the primary laboratory, and re-assaying of selected mineralized pulps at a second independent laboratory in future trenching and drill programs on the project.

11.0 DATA VERIFICATION

The current geochemical data was verified by sourcing original analytical certificates and digital data. Analytical data quality assurance and quality control was indicated by the favourable reproducibility obtained in laboratory and company inserted standards, blanks and duplicates (repeats). There is a good correlation between the field duplicates collected for quality control. Quality control procedures are documented in Section 10.0, "Sample Preparation, Analysis and Security".

There does not appear to have been any tampering with or contamination of the samples during collection, shipping, analytical preparation or analysis. In the author's opinion, the data provided in this technical report is adequately reliable for its purposes.

12.0 ADJACENT PROPERTIES (Figure 2)

The 14,490 hectare Rosebute Project (consisting of 694 claims including the RS, Rose and Butte claims) of Taku Gold Corp. (Taku) adjoins the Loonie claims to the south. Exploration by Taku returned 6.17 g/t Au over 5m and 1.5 g/t Au over 20m from trenching on the north-northwest trending 1 km by 150-350m HudBay gold soil anomaly (with a maximum of 0.9 g/t Au in soil), 15 km south of the Lira zone on the Loonie Project. RAB drill intercepts from this zone by Independence Gold Corp. in 2016 under option included 0.50 g/t Au over 36.6m, 0.31 g/t Au over 38.1m and 0.15 g/t Au over 91.4m. (*Taku website at <http://www.takugold.com/news.html/>*). The author has not been able to independently verify the above information and it is not necessarily indicative of the mineralization on the Loonie Project which is the subject of this report.

Drilling by Taku on a north-northeast trending portion of the donut shaped (with a 1 km diameter hole) Norwest gold soil anomaly, 10 km south of the Lira zone on the Loonie, returned 0.95 g/t Au over 22.6m in RO-12-01 (*Taku website at http://www.takugold.com/news-08-22-2012.html*). The author has not been able to

independently verify the above information and it is not necessarily indicative of the mineralization on the Loonie Project which is the subject of this report.

The Loonie Project is adjoined to the southeast by the Lucky Joe Project (481 LJ, 48 Lucky Joe and additional claims) of Golden Predator Mining Corp., which covers the Lucky Joe metamorphosed copper-gold porphyry drilled prospect. Historic drilling on the Lucky Joe Project has identified copper grades from 0.35% Cu to 0.6% Cu over intervals of 20 to 30m (maximum 0.95% Cu over 5.2m) in the 800m by 200m by 30m main mineralized zone, in which gold generally exhibits a 1:1 correlation with copper (*Deklerk, 2009*). Drilling along the 11.3 km long Lucky Joe copper-gold soil trend intersected 0.135% Cu and 0.032 g/t Au over 74.1m in DDH LJ05-03 (*Deklerk, 2009*). The author has not been able to independently verify the above information and it is not necessarily indicative of the mineralization on the Loonie Project which is the subject of this report.

(Refer to Figure 2 and website at <http://gysde.gov.yk.ca.>)

The author is not able to verify the above information pertaining to these adjacent properties, and the information is not necessarily indicative of the mineralization on the Loonie property.

13.0 INTERPRETATION AND CONCLUSIONS

An east-northeasterly trending zone of shear hosted gold mineralization has been discovered at the Lira zone on the Loonie Project within the central property area. Mineralization has been discontinuously traced over a 620m extent by a total of 2,583m of RAB drilling and 546m of small excavator trenching in 11 trenches. The zone occurs within a 75 by 740m east-northeasterly trending gold soil anomaly with a peak value of 3700.1 ppb Au. RAB drill results include 4.93 g/t Au over 12.2m, including 20.7 g/t Au over 1.5m in LOORAB14-01, 4.6 g/t Au over 7.6m, including 17.1 g/t Au over 1.5m in 17LOO009, 4.1 g/t Au over 7.6m, including 11.5 g/t Au over 1.5m in 17LOO025, 5.2 g/t Au over 4.6m, including 9.3 g/t Au over 1.5m in 17LOO035 and 0.90 g/t Au over 16.8m. Trench results include 13.3 g/t Au over 10m, 1.61 g/t Au over 15m and 3.8 g/t Au over 5m. The zone remains open to the west and down dip.

The Lira shear zone appears to consist of multiple mineralized segments with variable dips, which are controlled by the intersection of mineralized structure(s) with S2 fold hinges within brittle host rocks (e.g. felsic orthogneiss) and/or at lithologic contacts. The gold mineralization is hosted by quartz-carbonate, \pm muscovite-sericite, \pm clay, \pm Kspar altered felsic augen gneiss with quartz veining, disseminated pyrite(limonite), hematite and, locally, visible gold. Similarities exist to the Golden Saddle deposit and VG zone at QV. A strong structural control indicated by fracturing, brecciation and gouge is evident, similar to Goldcorp's Coffee Project.

Anomalous gold values at the Lira zone are associated with anomalous silver, bismuth, tellurium and mercury. The maximum gold value from trenching on the Lira zone,

consisting of 25.2 g/t Au over 5m from Trench 12-15, was accompanied by 5.6 ppm Ag, 10.8 ppm Bi, 23.5 ppm Te, and 1.02 ppm Hg. This is similar to the geochemical signature at the VG zone on the QV property of Comstock Metals Ltd. (*Comstock news release June 29, 2012*).

The east-northeasterly trend of the Lira zone is consistent with the orientation of many of the gold bearing zones in the White Gold district, including the Golden Saddle deposit at White Gold, several zones at Goldcorp's Coffee Project, the VG zone on the QV property of Comstock Metals Ltd., and the West zone (Ten showing) at the Dime Project of White Gold Corp.

The 2011 to 2012 soil geochemical surveys by Geo Zone Exploration Limited on the Loonie Project outlined another gold in soil anomaly (Peso), a copper-molybdenum ±gold soil anomaly (SE Peso-Guilder) and a reconnaissance lead-zinc-copper ±gold soil anomaly in the southern property area.

The Peso anomaly covers a 2 by 1.7 km gold soil anomaly in the northern property area, with a maximum value of 404.3 ppb Au and anomalous copper-molybdenum at its southeastern end, which may be continuous, or associated with, the 2 by 1 km easterly trending Guilder copper-molybdenum ±gold soil anomaly 1 km to the south, with maximum values of 920 ppm Cu. The LZ Cu copper showing, containing 0.11% Cu in a grab sample of malachite and chalcocite bearing schist, was discovered to the east of the Peso anomaly, further suggesting an association between the southeastern Peso and the Guilder anomalies.

The Guilder copper-molybdenum ±gold soil anomaly at Loonie lies 10 km northwest, along the same mineralized northwest trending magnetic lineament which hosts Lucky Joe, a copper-gold porphyry drilled prospect owned by Golden Predator Mining Corp. A metal zonation has been identified at Lucky Joe, with the central portion of the mineralized system being enriched in copper, gold, silver and molybdenum (*Hulstein, 2003*). Historic drilling on the Lucky Joe Project has identified copper grades from 0.35% Cu to 0.6% Cu over intervals of 20 to 30m (maximum 0.95% Cu over 5.2m) in the 800m by 200m by 30m main mineralized zone, in which gold generally exhibits a 1:1 correlation with copper (*Deklerk, 2009*). Drilling along the 11.3 km long Lucky Joe copper-gold soil trend intersected 0.135% Cu and 0.032 g/t Au over 74.1m in DDH LJ05-03 (*Deklerk, 2009*). The Three Bears anomalous copper soil trend on the Lucky Joe (LJ) property is shown to extend almost to the Guilder zone (*Hulstein, 2003*).

At the Peso anomaly a highly silicified outcrop of brecciated quartzite carries anomalous gold (212 ppb). The brecciated quartzite, which is locally graphitic, variably silicified and contains anomalous zinc, occurs as a mappable unit and may represent a thrust at the base of the Mississippian orthogneiss. A similar breccia, thought to represent a thrust, occurs just west of the Golden Saddle deposit on the White Gold Project of Kinross Gold Corporation, and is silicified and gold bearing at the Arc deposit, just south of Golden Saddle.

Altered intrusive rocks (bleached and silicified) have also been delineated in the Trench 12-1 to -3 area within the Peso gold soil anomaly. The intrusion shows strong similarities

to the altered Jurassic aged intrusion at the Jual and Ten properties owned by Bernie Kreft, and the Dime property of White Gold Corp., 20 km to the southwest of the Loonie. Reported values from the Jual property include 1.6 g/t Au over 25m, including 11.1 g/t Au over 3m from trenching (*Pautler, 2001*).

In conclusion, the Loonie Project has potential to host gold mineralization similar to that at the Golden Saddle deposit of White Gold Corp. and other significant gold discoveries within the White Gold district, and copper-gold porphyry mineralization such as at the Lucky Joe drilled prospect, 10 km to the southeast. In addition, a lead-zinc-copper soil anomaly with peripheral gold at Loonie, south of Lucky Joe Creek, is also suggestive of volcanogenic massive sulphide (VMS) type mineralization which was discovered within the White Gold district on the Touleary property near Thistle Mountain in 2011 by Arcus Development Group Inc., returning 14.15m of 1.44% Cu, 16.5 g/t Ag and 0.77 g/t Au (*Arcus news release, October 4, 2011*).

14.0 RECOMMENDATIONS AND BUDGET (Figure 29)

Based on significant gold intercepts from RAB drilling and trenching on the Lira zone, open to the west and down dip, the presence of significant gold, copper and base metal soil anomalies, similarities and proximity to the Golden Saddle deposit of White Gold Corp. and other significant gold discoveries within the White Gold district, and similarities and proximity to the Lucky Joe copper-gold porphyry drilled prospect, 10 km to the southeast, further work is recommended on the Loonie Project.

A two phase exploration program is recommended with Phase 1 consisting of additional soil grids in the Lira and southern property area, and IP geophysics and GTprobe (bedrock interface) lines in the Peso area. Phase 1 will also include a detailed integration and interpretation of the Lira drill data to determine the controls and configuration of the Lira vein system to guide continued drilling, and detailed mapping and prospecting in select areas of anomalous soils and geology. Proposed work is shown on Figure 29.

The Lira soil grid requires extension to the west to cover the apparent westerly continuation of the gold soil anomaly and to the north to explore for parallel structures. Lines should be run at 165°, at a 100m line spacing and 25m sample spacing (*Figure 29*).

Additional grid soil sampling is recommended in the southern property area, less than 10 km north of gold intercepts from drilling and trenching on the adjacent Rosebute property of Taku Gold Corp. to cover an easterly trend of anomalous gold soils from ridge and spur traverses and anomalous copper-lead-zinc soils (volcanogenic massive sulphide potential) from a mini-grid and surrounding ridge and spurs just to the north. North trending lines at a 100m line spacing and 50m sample spacing are recommended.

GTprobe lines and induced polarization geophysics are recommended to follow up gold in soil anomalies on the Peso grid. Soil anomalies appear to be transported from the steeper hillside above, so the probe lines will target the upper portions of the anomalies and above. Proposed lines are tabulated below. The first two lines have been flagged in the field.

Table 8: Proposed GTprobe lines

Line Number	Nad 83 Easting	Zone 7 Northing	Az. (°)	Length (m)	Target
LP-A	564594	7061507	270	0	above Tr1-3 and 404.3 ppb Au soil
LP-A mid	564394	7061502			at 200m mark
LP-A end	564214	7061501		390	near south end of Tr1
LP-B	564514	7061398	350	0	above Tr1-3 and 404.3 ppb Au soil
LP-B end	564440	7061771		380	
LP-C	563652	7061234	305	0	above quartzite breccia
LP-C end	563870	7061090		250	
LP-D	563855	7061210	305	0	above quartzite breccia
LP-D end	563700	7061310		250	
LP-E	564310	7062468	180	0	above 143.6 ppb Au soil
LP-E end	564313	7062220		250	
TOTAL				1520	

A detailed integration and interpretation of the Lira drill data is recommended to determine the controls and configuration of the Lira vein system to guide continued drilling. Detailed mapping and prospecting is also recommended in select areas of anomalous soils and geology due to the limited coverage to date.

A Phase 2 drill program, contingent on results from Phase 1, is recommended with 1500m of diamond drilling with a helicopter supported rig to test the gold mineralization intersected in RAB drilling and trenches on the Lira zone with 6 holes, and 600m of RAB drilling in 6 holes to follow up significant soil results from the Lira and/or significant GTprobe and geophysical anomalies on the Peso zone from the Phase 1 program.

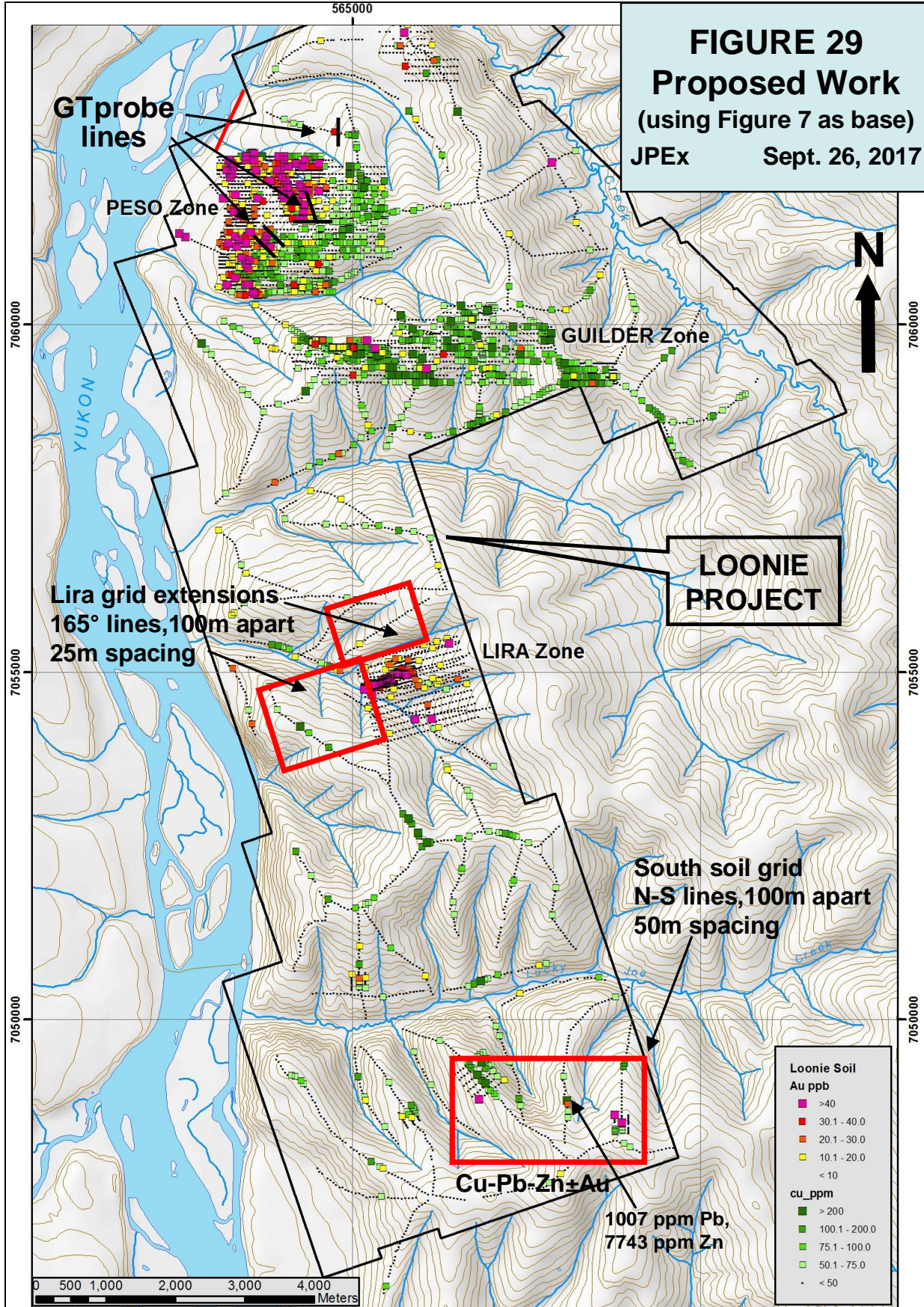
Based on the above recommendations, the following two phase exploration program with corresponding budget is proposed. Phase 2 is entirely contingent on results from Phase 1.

Phase 1

• structural, lithologic interpretation of drill data	\$15,000
• DIGHEM interpretation	10,000
• soil grids (750 samples - labour, assays, helicopter)	50,000
• geophysics (IP)	30,000
• GTprobe	30,000
• mapping and prospecting, assays	15,000
• camp, accommodation, food, communication	10,000
• helicopter	20,000
• preparation, compilation, report and drafting	7,000
• communication, supplies, travel & expediting	8,000
• contingency	<u>20,000</u>
TOTAL:	\$215,000

Phase 2 (contingent on results from Phase 1)

• diamond drilling (1500m in 6 holes, all in)	\$275,000
• RAB drilling (600m in 6 holes, all in)	75,000
• logging, sampling/technician, supervision	25,000
• assays (500 Au, ICP @40/each	20,000
• camp, accommodation, food, communication	20,000
• helicopter	25,000
• preparation, compilation, report and drafting	10,000
• communication, supplies, travel & expediting	10,000
• contingency	<u>40,000</u>
TOTAL:	\$500,000



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16.0 CERTIFICATE, DATE AND SIGNATURE

- 1) I, Jean Marie Pautler of 103-108 Elliott Street, Whitehorse, Yukon Territory am employed as a consultant geologist, authored and am responsible for all sections of this report entitled "RAB drill report on the Loonie Project, White Gold district, Yukon Territory", dated February 22, 2018.
- 2) I am a graduate of Laurentian University, Sudbury, Ontario with an Honours B.Sc. degree in geology (May, 1980) with over 35 years mineral exploration experience in the North American Cordillera. Pertinent experience includes the acquisition and delineation of the Tsacha epithermal gold deposit, British Columbia for Teck Exploration Ltd. and exploration and property examinations for Teck Exploration Ltd. in 1993 and 1998 to 2000, and with Kerr Addison Mines from 1983 to 1987 within the Dawson Range, White Gold and Klondike Gold districts of the Yukon. I have recent previous independent experience and knowledge of the area having conducted exploration, including property examinations, within the White Gold district from 2009 to 2017. I have examined the White Gold, Coffee and QV deposits and the Jual/Ten, Dime, Rosebute and Lucky Joe occurrences.
- 3) I am a registered member of the Association of Professional Engineers and Geoscientists of British Columbia, registration number 19804.
- 4) I examined the 2017 RAB drill sites and select chips and reviewed pertinent data on the Loonie property.
- 5) As stated in this report, in my professional opinion the property is of potential merit and further exploration work is justified.
- 6) I am entirely independent, as defined in section 1.5 of National Instrument 43-101, of White Gold Corp., Shawn Ryan, Wildwood Exploration Inc. and the Loonie property and any associated companies. I do not have any agreement, arrangement or understanding with White Gold Corp. and any affiliated company to be or become an insider, associate or employee. I do not own securities in White Gold Corp. or any affiliated companies and my professional relationship is at arm's length as an independent consultant, and I have no expectation that the relationship will change.

Dated at Carcross, Yukon Territory this 22nd day of February, 2018,

"Signed and Sealed"

"Jean Pautler"

Jean Pautler, P.Geol. (APEGBC Reg. No. 19804)
JP Exploration Services Inc.
#103-108 Elliott St. Whitehorse, Yukon Y1A 6C4

17.0 STATEMENT OF EXPENDITURES**June 6 to July 8, 2017**

RAB Drilling:	GroundTruth Exploration Inc., Dawson City, YT 1970m of RAB drilling in 30 holes		
	Wages & Drill: 31 days @ 4,908.71/day	\$152,170.00	
	Fuel & Consumables:	13,648.69	
	Drill Geologist: 31 days @ 550/day	<u>17,050.00</u>	
	in Invoice: GT-WGC2017-76	Total	182,868.69
Cook, Camp Equipment Rental, Food & Expediting:	GroundTruth Exploration Inc., Dawson City, YT		
	Cook, OFA 31 days @ 450/day	\$13,950.00	
	Camp Equipment Rental & Food	28,315.00	
	Expediting and Logistics	<u>9,300.00</u>	
	in Invoice: GT-WGC2017-76	Total	51,565.00
Geochemistry:	Bureau Veritas Mineral Laboratories, Vancouver, BC 1422 RAB samples for Au, ICP @ 33.00/sample		
		Total:	46,926.00
Helicopter:	Trans North Helicopters, Dawson City, YT		
	Astar: June 6 3.5 hrs	\$7,193.81	
	206: 3 supply runs 6.6 hrs	8,426.88	
	Astar: July 8 3.5 hrs	<u>7,193.81</u>	
	(not all flights charged)	Total:	22,814.50
Report & Drafting:	JP Exploration Services Inc., YT	Total	<u>5,000.00</u>
TOTAL:			\$309,174.19
Total Applied for Assessment:			\$226,200.00

Appendix I: Drill Logs

Appendix I

Date	Hole ID	Tech	Fromft	To_ft	From_m	To_m	Lithology	Altn	Remarks
08/06/2017	17LOO009	MH01	0	25	0.00	7.62	Felsic gneiss	SIL	Very bleached and veined, orangey pink colour from hematite staining
08/06/2017	17LOO009	MH01	25	55	7.62	16.76	Felsic gneiss	SIL	Not as bleached as rock above, more pinky than rock above due to some hematite staining and kfeld, some biotite present
08/06/2017	17LOO009	MH01	55	65	16.76	19.81	Felsic gneiss		Much more biotite rich, minor reddish staining, not as silicified as above rock
08/06/2017	17LOO009	MH01	65	105	19.81	32.00	Felsic gneiss		less biotite rich than 55-65 ft, pinkish colour that is coming more from kfeld, with minor hematite staining
08/06/2017	17LOO009	MH01	105	160	32.00	48.77	Felsic gneiss		Noticeably darker due to amount of biotite, kspar is present, and very mild staining
08/06/2017	17LOO009	MH01	160	195	48.77	59.44	Felsic gneiss	SIL	Very noticeable biotite decrease and bleaching of rock, hematite staining is present
09/06/2017	17LOO009	MH01	195	210	59.44	64.01	Felsic gneiss		Much more pinky feldspars, some biotite, and staining
09/06/2017	17LOO009	MH01	210	220	64.01	67.06	Felsic gneiss		Slightly more bleached than the last overlying rock, slightly less biotite
09/06/2017	17LOO009	MH01	220	230	67.06	70.10	Felsic gneiss		Slightly increased biotite, more pinky feldspars
09/06/2017	17LOO009	MH01	230	270	70.10	82.30	Felsic gneiss	SIL	Increase in amount of bleaching and decrease in biotite from 230 to 270 ft
09/06/2017	17LOO009	MH01	270	290	82.30	88.39	Felsic gneiss		Increasing biotite and decreased bleaching from 270 to 290
10/06/2017	17LOO010	MH01	0	30	0.00	9.14	Felsic gneiss		Loses biotite content towards 30ft depth, increased bleaching towards 30ft
10/06/2017	17LOO010	MH01	30	40	9.14	12.19	Felsic gneiss	SIL	Not much biotite remaining, the predominant colour (pinkish orange) is from hematite staining
10/06/2017	17LOO010	MH01	40	45	12.19	13.72	Felsic gneiss		Slightly pinkish, more biotite content than previous depth
10/06/2017	17LOO010	MH01	45	50	13.72	15.24	Felsic gneiss	SER	Appears to be more biotite than previous depth but more sericite present, more greyish look to the chips
10/06/2017	17LOO010	MH01	50	75	15.24	22.86	Felsic gneiss		Slightly varying biotite amounts, hematite staining amounts also have minor variation, slightly increased sericite in 65-70ft
10/06/2017	17LOO010	MH01	75	90	22.86	27.43	Felsic gneiss		Slight more sericite in 85-90 ft
10/06/2017	17LOO010	MH01	90	95	27.43	28.96	Felsic gneiss	HEM	Mostly colour difference from hematite stain, reduced amount of biotite
10/06/2017	17LOO010	MH01	95	110	28.96	33.53	Felsic gneiss	SER	Elevated sericite amounts, not much hematite staining, still decent amount of biotite present
10/06/2017	17LOO010	MH01	110	145	33.53	44.20	Felsic gneiss		Similar amount of hematite stain and biotite as previous depth unit but less sericite, 140-145 has increased biotite and less stain
10/06/2017	17LOO010	MH01	145	170	44.20	51.82	Biotite schist		Biotite and more biotite
10/06/2017	17LOO010	MH01	170	245	51.82	74.68	Felsic gneiss		Slightly varying ratios of biotite and hematite staining, decent amount of biotite, the rock is darker than most of previous orthogneiss
10/06/2017	17LOO010	MH01	245	280	74.68	85.34	Felsic gneiss		Lots of biotite content, could be slightly altered biotite schist or veining in biotite schist, or biotite rich orthogneiss?
10/06/2017	17LOO010	MH01	280	330	85.34	100.58	Felsic gneiss		Some of the schist is slightly more silicious possibly to do with veins, especially 290-300 and 325-330
12/06/2017	17LOO011	MH01	0	25	0.00	7.62	Felsic gneiss		Biotite rich, kfeld, not much going on here
12/06/2017	17LOO011	MH01	25	50	7.62	15.24	Felsic gneiss		Less biotite than above unit, some hematite staining, more remnant sulphide in 40-50ft
12/06/2017	17LOO011	MH01	50	60	15.24	18.29	Felsic gneiss	HEM	Bleached and hematite stained, remnant sulphide, 50-55 is most altered
12/06/2017	17LOO011	MH01	60	115	18.29	35.05	Biotite schist		Some hematite staining and quartz in some 5 ft intervals possibly from small quartz veins, but mostly biotite in all
12/06/2017	17LOO011	MH01	115	120	35.05	36.58	Felsic gneiss	SIL	Some quartz veining in this part most likely, still lots of biotite

Appendix I

Date	Hole ID	Tech	Fromft	To_ft	From_m	To_m	Lithology	Altn	Remarks
12/06/2017	17LOO011	MH01	120	130	36.58	39.62	Felsic gneiss		
12/06/2017	17LOO011	MH01	130	145	39.62	44.20	Felsic gneiss		More sericite content, possible small veins
12/06/2017	17LOO011	MH01	145	155	44.20	47.24	Felsic gneiss		
12/06/2017	17LOO011	MH01	155	180	47.24	54.86	Felsic gneiss	SIL	More quartz veining than in previous units, some remnant sulphides
12/06/2017	17LOO011	MH01	180	200	54.86	60.96	Felsic gneiss		Possibly just more fluid alteration of biotite schist or back into orthogneiss, some remnant sulphide but not much
12/06/2017	17LOO011	MH01	200	215	60.96	65.53	Felsic gneiss	SIL	Bleached and stained, only biotite remnants left, some sulphide remnants
12/06/2017	17LOO011	MH01	215	220	65.53	67.06	Felsic gneiss		More biotite and less staining but still remnants of sulphides
12/06/2017	17LOO011	MH01	220	225	67.06	68.58	Felsic gneiss		Less biotite, than previous depth, more staining and sulphide remnants
12/06/2017	17LOO011	MH01	225	230	68.58	70.10	Felsic gneiss	HEM	Deeper red staining. Decent amount of biotite
12/06/2017	17LOO011	MH01	230	235	70.10	71.63	Felsic gneiss		Similar staining to previous unit just more of a grey redish
12/06/2017	17LOO011	MH01	235	260	71.63	79.25	Felsic gneiss	SIL	All stained but is lighter orange and more bleached towards 260ft, fairly even amount remnant sulphide throughout which is not as much as at 60ft
12/06/2017	17LOO011	MH01	260	290	79.25	88.39	Felsic gneiss	SIL	More biotite than above unit but appears to have more remnant sulphide
12/06/2017	17LOO011	MH01	290	305	88.39	92.96	Felsic gneiss	SIL	Highest alteration in the middle 295-300, but it's bleached and stained, some biotite on outside 5ft but middle has barely any
12/06/2017	17LOO011	MH01	305	330	92.96	100.58	Felsic gneiss		More biotite but still some hematite staining, more biotite approaching 330
13/06/2017	17LOO012	MH01	0	30	0.00	9.14	Felsic gneiss	SIL	Biotite present, but is slightly bleached and is hematite stained, traces of remnant sulphide
13/06/2017	17LOO012	MH01	30	55	9.14	16.76	Felsic gneiss	SIL	More heavily veined, less biotite, lighter colour, 55-60 and 35-40 have slightly less biotite, more stained than previous unit
13/06/2017	17LOO012	MH01	55	75	16.76	22.86	Felsic gneiss	SIL	More quartz rich, more hematite staining, less biotite than previous, more remnant sulphide than other units
13/06/2017	17LOO012	MH01	75	85	22.86	25.91	Felsic gneiss	SIL	Not as hematite stained, slightly more biotite again, still some remnant sulphide
13/06/2017	17LOO012	MH01	85	95	25.91	28.96	Felsic gneiss	SIL	The most bleached unit, pale pink, barely any biotite
13/06/2017	17LOO012	MH01	95	100	28.96	30.48	Felsic gneiss	SIL	Still a decent amount of remnant sulphide and hematite staining, biotite has made its way back though, similar to unit 30-55
13/06/2017	17LOO013	MH01	0	10	0.00	3.05	Felsic gneiss	SIL	Little bit of hematite staining, small of biotite, moderate amount of remnant sulphide
13/06/2017	17LOO013	MH01	10	45	3.05	13.72	Felsic gneiss	SIL	Most likely quartz veins running through biotite schist, lots of biotite but some stained quartz throughout the unit
13/06/2017	17LOO013	MH01	45	50	13.72	15.24	Felsic gneiss	SIL	Good amount of remnant sulphide and bleaching, hematite staining
13/06/2017	17LOO013	MH01	50	95	15.24	28.96	Felsic gneiss	SIL	Most bleached at 60-65ft which has almost no biotite, the rest of this unit has similar amount of biotite as well as hematite staining
13/06/2017	17LOO013	MH01	95	115	28.96	35.05	Felsic gneiss	HEM	Looks like there is quartz veining and a good amount of remnant sulphide
13/06/2017	17LOO013	MH01	115	160	35.05	48.77	Felsic gneiss	SIL	All mildly hematite stained, 130-135 is less stained. Biotite amounts are moderate, the least amount of biotite is in 130-135 and 140-150 and the highest amount of remnant sulphide in the unit is in those same intervals
14/06/2017	17LOO014	MH01	0	15	0.00	4.57	Felsic gneiss		Orthogneiss with some remnant sulphide
14/06/2017	17LOO014	MH01	15	25	4.57	7.62	Felsic gneiss	SIL	Bleaching and hematite staining, similar amount of remnant sulphide as above unit maybe slightly more
14/06/2017	17LOO014	MH01	25	65	7.62	19.81	Felsic gneiss		Most altered interval is at 50-55ft, good amount of remnant sulphide, still biotite present

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Date	Hole ID	Tech	Fromft	To_ft	From_m	To_m	Lithology	Altn	Remarks
14/06/2017	17LOO014	MH01	65	75	19.81	22.86	Felsic gneiss	SIL	Light in colour, bleached and hematite stained, similar amount of remnant sulphide to previous unit, little to no biotite
14/06/2017	17LOO014	MH01	75	80	22.86	24.38	Felsic gneiss	SIL	Still some bleached and stained rock chips and remnant sulphide but there are also biotite rich chips
14/06/2017	17LOO014	MH01	80	105	24.38	32.00	Felsic gneiss		Slightly silicified and stained , similar amounts of remnant sulphide to previous units
14/06/2017	17LOO014	MH01	105	125	32.00	38.10	Felsic gneiss	SIL	More bleached / silicified towards 125ft, slightly lighter colour than previous unit, still similar amount of remnant sulphide
14/06/2017	17LOO014	MH01	125	150	38.10	45.72	Felsic gneiss		Probably some smaller quartz veins throughout, majority biotite
14/06/2017	17LOO014	MH01	150	180	45.72	54.86	Felsic gneiss	SIL	Drastic drop in biotite content, not as much remnant sulphide as in previous units
14/06/2017	17LOO014	MH01	180	225	54.86	68.58	Felsic gneiss		Couple of intervals that have slightly less biotite and more staining, not a whole lot of remnant sulphide throughout unit
14/06/2017	17LOO014	MH01	225	245	68.58	74.68	Felsic gneiss	SIL	Less biotite, orangey pink staining, some remnant sulphide
14/06/2017	17LOO014	MH01	245	330	74.68	100.58	Felsic gneiss		Slightly silicified 290-295 and 325-330, slightly more sulphide in the intervals approaching 230ft, lots of biotite throughout unit
15/06/2017	17LOO015	MH01	0	5	0.00	1.52	Felsic gneiss		Sort of a transition zone of the two rock types
15/06/2017	17LOO015	MH01	5	20	1.52	6.10	Felsic gneiss		Good amount of remnant sulphide, still lots of biotite present, 15-20 ft starts to get silicified
15/06/2017	17LOO015	MH01	20	50	6.10	15.24	Felsic gneiss	SIL	Good amount of remnant sulphide, about as much as in previous unit, more silicified and hematite stained than previous unit though
15/06/2017	17LOO015	MH01	55	75	16.76	22.86	Felsic gneiss	SIL	Even more silicious than previous unit, slightly more bleached with less to similar amounts of biotite, less remnant sulphide
15/06/2017	17LOO015	MH01	75	85	22.86	25.91	Felsic gneiss		Getting more biotite rich
15/06/2017	17LOO015	MH01	85	100	25.91	30.48	Felsic gneiss		Probably a few small quartz veins in the schist
15/06/2017	17LOO015	MH01	100	115	30.48	35.05	Felsic gneiss	SIL	More quartz content and redish hematite staining
15/06/2017	17LOO015	MH01	115	135	35.05	41.15	Felsic gneiss		More remnant sulphide, particularly around 125-130, increase in biotite from previous unit
15/06/2017	17LOO015	MH01	135	150	41.15	45.72	Felsic gneiss		More sulphide in 135-140 and 145-150, but 140-145 has more biotite content
15/06/2017	17LOO015	MH01	150	155	45.72	47.24	Felsic gneiss	SIL	Very bleached, some remnant sulphide, much less biotite
15/06/2017	17LOO015	MH01	155	170	47.24	51.82	Felsic gneiss	HEM	Deeper red colour from staining, a large amount of biotite, looks like there may have been very minor quartz veins in this section
15/06/2017	17LOO015	MH01	170	225	51.82	68.58	Felsic gneiss		Some hematite staining, mostly biotite and probably some minor quartz veining, 215-220 has slightly more sulphide
15/06/2017	17LOO015	MH01	225	230	68.58	70.10	Felsic gneiss		Slightly lighter in colour, appears to have more remnant sulphide
15/06/2017	17LOO015	MH01	230	280	70.10	85.34	Felsic gneiss		240-245 has slightly more reddish stain, the rest is majority biotite and a little bit of quartz
15/06/2017	17LOO015	MH01	280	290	85.34	88.39	Felsic gneiss		Possibly more quartz veins but still looks very similar to surrounding rock
15/06/2017	17LOO015	MH01	290	325	88.39	99.06	Felsic gneiss		305-310 has a little more pink in it, either stained quartz or kfeld, nothing to exciting though, mostly still biotite in this section
15/06/2017	17LOO015	MH01	325	330	99.06	100.58	Felsic gneiss	SIL	Looks pretty silicious and pink, still a little biotite and and barely any noticeable remnant sulphide
17/06/2017	17LOO016	MH01	0	5	0.00	1.52	Felsic gneiss		Slightly silicified, biotite rich, some remnant sulphide

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Date	Hole ID	Tech	Fromft	To_ft	From_m	To_m	Lithology	Altn	Remarks
17/06/2017	17LOO016	MH01	5	10	1.52	3.05	Felsic gneiss		Minor remnant sulphide
17/06/2017	17LOO016	MH01	10	40	3.05	12.19	Felsic gneiss		Still a good amount of biotite, more bleached and silicious than previous units, starting to see slightly more hematite staining
17/06/2017	17LOO016	MH01	40	70	12.19	21.34	Felsic gneiss	SIL	Orange from hematite staining, remnant sulphide seems to be mostly at the very beginning of unit and after the most bleached part of the unit which is at 50-55ft
17/06/2017	17LOO016	MH01	70	95	21.34	28.96	Felsic gneiss	HEM	Darker red stained, more biotite, slightly lighter approaching 95ft
17/06/2017	17LOO016	MH01	95	110	28.96	33.53	Felsic gneiss		Increase in biotite again, still slightly silicified
17/06/2017	17LOO016	MH01	110	130	33.53	39.62	Felsic gneiss	SIL	Decrease in biotite but has more biotite than 40-70 ft, not as bleached as as 40-70ft either
17/06/2017	17LOO016	MH01	130	135	39.62	41.15	Felsic gneiss		Lots of biotite, probably some smaller quartz veins
17/06/2017	17LOO016	MH01	135	140	41.15	42.67	Felsic gneiss	SIL	Not major silicification, still biotite present, minor staining and remnant sulphide
17/06/2017	17LOO016	MH01	140	145	42.67	44.20	Felsic gneiss		Still silicified but more biotite than surrounding rock, nothing much more remnant sulphide
17/06/2017	17LOO016	MH01	145	150	44.20	45.72	Felsic gneiss	SIL	Has less biotite than surrounding units, is more hematite stained than surrounding units as well
17/06/2017	17LOO016	MH01	150	170	45.72	51.82	Felsic gneiss	SIL	Not very stained but silicious, slightly more biotite than previous unit, nothing much in the way of remnant sulphide
17/06/2017	17LOO016	MH01	170	185	51.82	56.39	Felsic gneiss		Biotite rich, middle interval of this unit seems to have the most remnant sulphide, this unit has more remnant sulphide than last
17/06/2017	17LOO016	MH01	185	195	56.39	59.44	Felsic gneiss	SIL	Heavier hematite staining, little amount of biotite remaining, appears to be more remnant sulphide than previous unit
18/06/2017	17LOO017	MH01	0	5	0.00	1.52	Felsic gneiss	HEM	Darker orange staining, large pieces of biotite schist
18/06/2017	17LOO017	MH01	5	20	1.52	6.10	Felsic gneiss	HEM	Very orange stained, more silicified, definitely good amount of remnant sulphide
18/06/2017	17LOO017	MH01	20	25	6.10	7.62	Felsic gneiss	SIL	More bleached than the previous unit, less biotite but similar remnant sulphide contents
18/06/2017	17LOO017	MH01	25	30	7.62	9.14	Felsic gneiss	SIL	Very bleached and pale hematite staining, no biotite
18/06/2017	17LOO017	MH01	30	35	9.14	10.67	Felsic gneiss	SIL	Still bleached, but more remnant sulphide than previous unit
18/06/2017	17LOO017	MH01	35	45	10.67	13.72	Felsic gneiss	HEM	Back to more orange staining, some biotite but not much, good amount of remnant sulphide
18/06/2017	17LOO017	MH01	45	50	13.72	15.24	Felsic gneiss	SIL	More biotite than in any previous units, still some orange staining, and less remnant sulphide
18/06/2017	17LOO017	MH01	50	100	15.24	30.48	Biotite schist		Some remnant sulphides in 50-55ft, and some clay mineral in 85-90ft, all of this unit is very biotite rich
18/06/2017	17LOO018	MH01	0	15	0.00	4.57	Felsic gneiss	SER	Decreasing hematite staining with depth but increase in sericite and remnant sulphide, decently biotite rich
18/06/2017	17LOO018	MH01	15	25	4.57	7.62	Felsic gneiss	SIL	More silicified than previous unit, similar amount of remnant sulphide
18/06/2017	17LOO018	MH01	25	65	7.62	19.81	Felsic gneiss	SIL	All hematite stained, all bleached, the most remnant sulphides appear to be in 25-30ft and 35-40ft
18/06/2017	17LOO018	MH01	65	95	19.81	28.96	Felsic gneiss		Gets more biotite rich with depth in this unit, and gets less stained, not much in the way of remnant sulphide, a little more sericite from 90-95ft
18/06/2017	17LOO018	MH01	95	100	28.96	30.48	Felsic gneiss	SIL	More silicified than surrounding units, similar amounts of remnant sulphide to surrounding rock

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Date	Hole ID	Tech	Fromft	To_ft	From_m	To_m	Lithology	Altn	Remarks
18/06/2017	17LOO018	MH01	100	110	30.48	33.53	Felsic gneiss		Still somewhat silicious most likely small quartz veining, very little staining
18/06/2017	17LOO018	MH01	110	125	33.53	38.10	Felsic gneiss	SIL	Getting more silicified with depth but not as much staining as seen before, some quartz crystals aren't stained at all, decreased amount of biotite with depth as well
18/06/2017	17LOO018	MH01	125	155	38.10	47.24	Felsic gneiss	SIL	A little less biotite than the previous unit, definitely more stained and bleached, some remnant sulphide but not much visible
18/06/2017	17LOO018	MH01	155	165	47.24	50.29	Felsic gneiss	SIL	Very similar to the previous unit but less hematite staining and a little more biotite present
18/06/2017	17LOO018	MH01	165	170	50.29	51.82	Felsic gneiss	SIL	Very similar to previous unit with the exception that this unit is more hematite stained
18/06/2017	17LOO018	MH01	170	180	51.82	54.86	Felsic gneiss	SIL	Drastic decrease in biotite and an increase in how bleached this unit is
18/06/2017	17LOO018	MH01	180	185	54.86	56.39	Felsic gneiss		Still silicified but a large increase in biotite
18/06/2017	17LOO018	MH01	185	190	56.39	57.91	Felsic gneiss	SIL	Significantly bleached and stained, and what looks like stained clay minerals which are almost a light yellow colour
18/06/2017	17LOO018	MH01	190	200	57.91	60.96	Felsic gneiss	SIL	Increasing in biotite at 200ft, not much in the way of remnant sulphide, and is mildly hematite stained
19/06/2017	17LOO019	MH01	0	25	0.00	7.62	Felsic gneiss		Not much feldspar, more sericite at 0-5ft and less moving to 25ft, slightly more quartz moving from 0 to 25ft
19/06/2017	17LOO019	MH01	25	40	7.62	12.19	Felsic gneiss	SIL	Redish staining, small amounts of remnant sulphide, decreased biotite
19/06/2017	17LOO019	MH01	40	50	12.19	15.24	Felsic gneiss	SIL	More bleached than surrounding rock, appears to be slightly more remnant sulphide especially in 45-50ft
19/06/2017	17LOO019	MH01	50	60	15.24	18.29	Felsic gneiss	HEM	Darker red staining again, possibly some feldspars in there but hard to tell because of staining, some remnant sulphide more so in 50-55ft
19/06/2017	17LOO019	MH01	60	75	18.29	22.86	Felsic gneiss	SIL	Appears to be more silicious and have a lighter pink colour which could be feldspars, more biotite in 70-75ft
19/06/2017	17LOO019	MH01	75	85	22.86	25.91	Felsic gneiss	SIL	Looks silicified, even more pinky than previous unit though, and has less biotite, nothing much in the way of remnant sulphide
19/06/2017	17LOO019	MH01	85	95	25.91	28.96	Felsic gneiss		More biotite than surrounding rock, still some lighter pink crystals but much less
19/06/2017	17LOO019	MH01	95	110	28.96	33.53	Felsic gneiss	SIL	Very little biotite, looks like pinky feldspars but could be just stained quartz, nothing much for remnant sulphide
19/06/2017	17LOO019	MH01	110	145	33.53	44.20	Felsic gneiss		Not really any feldspar, mostly biotite quartz and some sericite, slightly more remnant sulphide in 120-125 ft
19/06/2017	17LOO019	MH01	145	180	44.20	54.86	Felsic gneiss	HEM	Biotite increase from 145 to 180ft, less pinky orange colour going towards 180ft, very little biotite at 145-150 ft interval
19/06/2017	17LOO019	MH01	180	190	54.86	57.91	Felsic gneiss		More biotite and less pinkish feldspar/stained quartz, slightly more bleached at 185-190
19/06/2017	17LOO019	MH01	190	195	57.91	59.44	Felsic gneiss	SIL	Still some biotite remaining but more bleached than surrounding rock,
19/06/2017	17LOO019	MH01	195	220	59.44	67.06	Felsic gneiss		Lots of biotite, minor reddish hematite staining from 205-215ft, even less staining on the rest of the unit, some pinky orange crystals, either feldspar or stained quartz
19/06/2017	17LOO019	MH01	220	300	67.06	91.44	Felsic gneiss		Almost all biotite, there is very tiny but more pinky crystals from 275ft onward and also more of a white clay mineral from 275ft onward
20/06/2017	17LOO020	MH01	0	5	0.00	1.52	Felsic gneiss		Large chips, platy mineral, some biotite but a lot of lighter micas, some orangy staining maybe from soil

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Date	Hole ID	Tech	Fromft	To_ft	From_m	To_m	Lithology	Altn	Remarks
21/06/2017	17LOO020	MH01	5	10	1.52	3.05	Felsic gneiss		Lots more biotite present, still large chips, even less orangy staining than previous unit
21/06/2017	17LOO020	MH01	10	20	3.05	6.10	Felsic gneiss		Nothing much happening, some quartz present, very little staining
21/06/2017	17LOO020	MH01	20	25	6.10	7.62	Felsic gneiss	SIL	A lot more quartz, a lot less biotite
21/06/2017	17LOO020	MH01	25	55	7.62	16.76	Felsic gneiss		Some remnant sulphide in 25-30ft, some quartz crystals but not stained much
21/06/2017	17LOO020	MH01	55	65	16.76	19.81	Felsic gneiss		Appears to have a little bit of kspar, 60-65ft is a little more hematite stained
21/06/2017	17LOO020	MH01	65	75	19.81	22.86	Felsic gneiss		Kspar, biotite, quartz, some staining on quartz but very little
21/06/2017	17LOO020	MH01	75	80	22.86	24.38	Felsic gneiss	SIL	More silicious and less biotite, still some kspar present maybe more of stained quartz
21/06/2017	17LOO020	MH01	80	85	24.38	25.91	Felsic gneiss		Similar to 65-75ft but, a little more quartz it looks like
21/06/2017	17LOO020	MH01	85	100	25.91	30.48	Felsic gneiss		Very biotite rich, some quartz but not much and minor stain on quartz
21/06/2017	17LOO020	MH01	100	105	30.48	32.00	Felsic gneiss		Appears to have some more feldspar than previous unit, decently biotite rich
21/06/2017	17LOO020	MH01	105	110	32.00	33.53	Felsic gneiss		Slightly more bleached and noticeable remnant sulphide
21/06/2017	17LOO020	MH01	110	150	33.53	45.72	Felsic gneiss		120-125 and 130-140 are slightly more biotite rich there may be smaller biotite schist areas in those intervals, the less biotite rich intervals tend to have some noticeable remnant sulphide
21/06/2017	17LOO020	MH01	150	170	45.72	51.82	Felsic gneiss	HEM	More of an orangy stain than the previous unit, more silicious, can't see much of remnant sulphide, no more than in previous unit
21/06/2017	17LOO020	MH01	170	210	51.82	64.01	Felsic gneiss		185-190ft is slightly more stained and has slightly less biotite, entire unit has a decent amount of biotite
21/06/2017	17LOO020	MH01	210	220	64.01	67.06	Felsic gneiss	SIL	Increase in quartz veining, slightly lighter colour, more so in 215-220
21/06/2017	17LOO020	MH01	220	230	67.06	70.10	Felsic gneiss		Subtle change from the previous unit, a bit more hematite stained
21/06/2017	17LOO020	MH01	230	240	70.10	73.15	Felsic gneiss		A little more silicious, lighter in colour, appears to have a little more remnant sulphide (may just be because of the lighter colour)
21/06/2017	17LOO020	MH01	240	250	73.15	76.20	Felsic gneiss		Transition from orthogneiss into more of a biotite schist
21/06/2017	17LOO020	MH01	250	285	76.20	86.87	Felsic gneiss		Majority biotite, tiny bit of quartz, not much for remnant sulphide
21/06/2017	17LOO020	MH01	285	290	86.87	88.39	Felsic gneiss		Slightly more reddish staining than surrounding rock, maybe a couple feldspar crystals in there
21/06/2017	17LOO020	MH01	290	330	88.39	100.58	Felsic gneiss		Slightly more remnant sulphide in interval 305-310ft, not much noticeable remnant sulphide in the rest of the unit, some scattered stained quartz and possibly feldspars but they are very few, also some unstained quartz
21/06/2017	17LOO021	MH01	0	10	0.00	3.05	Felsic gneiss		Appears to have lots of feldspar, less biotite than the next unit, nothing much noticeable for remnant sulphide
21/06/2017	17LOO021	MH01	10	20	3.05	6.10	Felsic gneiss		More biotite, may be some smaller layers of biotite schist in the unit, still a decent amount of feldspar, appears to be a little bit of hematite staining, in 15-20ft
21/06/2017	17LOO021	MH01	20	25	6.10	7.62	Felsic gneiss		Appears to have more quartz present and less feldspar
21/06/2017	17LOO021	MH01	25	50	7.62	15.24	Felsic gneiss		Biotite rich probably some biotite schist in this unit as well, still feldspar but not as much as in rock close to the surface, more unstained quartz than in previous units, still not much to be said for remnant sulphide
22/06/2017	17LOO022	MH01	0	5	0.00	1.52	Felsic gneiss		Lots of kspar, some biotite, not much quartz
22/06/2017	17LOO022	MH01	5	10	1.52	3.05	Felsic gneiss		More biotite rich than previous unit, some quartz crystals
22/06/2017	17LOO022	MH01	10	15	3.05	4.57	Felsic gneiss	SIL	Lots of quartz, the rest biotite, a very tiny bit of feldspar

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Date	Hole ID	Tech	Fromft	To_ft	From_m	To_m	Lithology	Altn	Remarks
22/06/2017	17LOO022	MH01	15	40	4.57	12.19	Felsic gneiss		25-30ft has large chips of white quartz and the rest biotite, the rest if the unit has less quartz and mostly biotite, little bit of hematite staining
22/06/2017	17LOO022	MH01	40	65	12.19	19.81	Felsic gneiss		Most of this unit is slightly lighter possibly to do with sericite, a little bit of feldspar, mostly biotite very similar to previous unit, little bit of hematite staining
22/06/2017	17LOO022	MH01	65	85	19.81	25.91	Felsic gneiss		Kfeld, biotite and some quartz
22/06/2017	17LOO022	MH01	85	90	25.91	27.43	Felsic gneiss		A lot less biotite, a lot more orangy feldspar and stained quartz, not much in the way of sulphides yet
22/06/2017	17LOO022	MH01	90	120	27.43	36.58	Felsic gneiss	SIL	Minimal biotite, bleached and stained, good mount of remnant sulphide
22/06/2017	17LOO022	MH01	120	125	36.58	38.10	Felsic gneiss	HEM	Darker reddish stain, some feldspar an quartz, not as much remnant sulphide as in previous unit
22/06/2017	17LOO022	MH01	125	135	38.10	41.15	Felsic gneiss	SIL	Less stained and a little more remnant sulphide than last unit, looks like more sericite as well because it's lighter in 130-135
22/06/2017	17LOO022	MH01	135	150	41.15	45.72	Felsic gneiss	SER	Still biotite present, more bleached but not as stained as previous units, some remnant sulphide but not as much as in unit 90-120ft
22/06/2017	17LOO023	MH01	0	5	0.00	1.52	Felsic gneiss		Kfeld, biotite, and sericite, covered in some orange mud
22/06/2017	17LOO023	MH01	5	15	1.52	4.57	Felsic gneiss		Mostly biotite and feldspar/sericite, minor amounts of remnant sulphide
23/06/2017	17LOO023	MH01	15	25	4.57	7.62	Felsic gneiss		Lighter than surrounding units, decent amount of remnant sulphide, little bit of feldspar/stained quartz, less biotite than surrounding rock
23/06/2017	17LOO023	MH01	25	65	7.62	19.81	Felsic gneiss		Pieces of kspar, some quartz and a decent amount of biotite, some intervals appear a little lighter which may either be feldspar or sericite, not much for remnant sulphide
23/06/2017	17LOO023	MH01	65	80	19.81	24.38	Felsic gneiss		
24/06/2017	17LOO023	MH01	80	85	24.38	25.91	Felsic gneiss	SIL	Not much biotite left, still orangy feldspars/ could be stained quartz, looking bleached, small amount of remnant sulphide
24/06/2017	17LOO023	MH01	85	90	25.91	27.43	Felsic gneiss	SIL	Almost no biotite remaining, more bleached than surrounding rock, nothing really visible for remnant sulphide
24/06/2017	17LOO023	MH01	90	100	27.43	30.48	Felsic gneiss	SIL	More biotite than previous unit, increase in kfeld, not as bleached as surrounding rock
24/06/2017	17LOO023	MH01	100	105	30.48	32.00	Felsic gneiss	SIL	Decrease in biotite, more bleached than surrounding rock
24/06/2017	17LOO023	MH01	105	120	32.00	36.58	Felsic gneiss		Increase in biotite and feldspar, still some quartz, little bit of remnant sulphide
24/06/2017	17LOO023	MH01	120	125	36.58	38.10	Felsic gneiss	SIL	Decrease in biotite, increase in feldspar/stained quartz, similar amount of remnant sulphide to previous unit..not much
24/06/2017	17LOO023	MH01	125	130	38.10	39.62	Felsic gneiss		Decently biotite rich, still similar in most other aspects to previous unit
24/06/2017	17LOO023	MH01	130	140	39.62	42.67	Felsic gneiss		Increase in feldspar especially in 130-135ft, 135-140ft has more biotite, a little bit of quartz in both
24/06/2017	17LOO023	MH01	140	155	42.67	47.24	Felsic gneiss		145-150 looks more hematite stained and more quartz,
24/06/2017	17LOO023	MH01	155	160	47.24	48.77	Felsic gneiss		Appears lighter, maybe more feldspar and sericite, less biotite, a little bit of quartz
24/06/2017	17LOO023	MH01	160	165	48.77	50.29	Felsic gneiss	SIL	Less biotite than surrounding rock, more bleached, not much remnant sulphide
24/06/2017	17LOO023	MH01	165	180	50.29	54.86	Felsic gneiss		
24/06/2017	17LOO023	MH01	180	215	54.86	65.53	Felsic gneiss	SIL	Bleached, lots of remnant sulphide in 185-190ft and a little bit throughout the rest of the unit
24/06/2017	17LOO023	MH01	215	220	65.53	67.06	Felsic gneiss		More biotite present than previously, looks like kspar and some quartz

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Date	Hole ID	Tech	Fromft	To_ft	From_m	To_m	Lithology	Altn	Remarks
24/06/2017	17LOO023	MH01	220	230	67.06	70.10	Felsic gneiss		Even more biotite present than in previous unit, some feldspar, appears to be lighter due to sericite maybe
24/06/2017	17LOO023	MH01	230	255	70.10	77.72	Felsic gneiss		Mostly biotite some quartz, nothing exciting
24/06/2017	17LOO023	MH01	255	260	77.72	79.25	Felsic gneiss		Less biotite than surrounding rock, looks like either stained quartz or kfeld and some unstained quartz
24/06/2017	17LOO023	MH01	260	300	79.25	91.44	Felsic gneiss		Some reddish pinky crystals scattered throughout the unit and some quartz
24/06/2017	17LOO023	MH01	300	325	91.44	99.06	Felsic gneiss		Bleaching and decrease in biotite progresses from 305 to 325ft, not much for remnant sulphide
24/06/2017	17LOO023	MH01	325	330	99.06	100.58	Felsic gneiss		Mainly biotite, little bit of quartz
24/06/2017	17LOO024	MH01	0	5	0.00	1.52	Felsic gneiss		Good amount of orangy mineral, looks rusty covered but could be some feldspar,
24/06/2017	17LOO024	MH01	5	15	1.52	4.57	Felsic gneiss	SER	Some remnant sulphide, powdery white colour, some biotite
24/06/2017	17LOO024	MH01	15	35	4.57	10.67	Felsic gneiss		More abundance of orangy pinky crystals, they are probably feldspar but some stained quartz
24/06/2017	17LOO024	MH01	35	75	10.67	22.86	Felsic gneiss	SIL	Remnant sulphide throughout the unit in various amounts, the most at 50-55ft
24/06/2017	17LOO024	MH01	75	90	22.86	27.43	Felsic gneiss	SIL	Still a similar amount of sulphide to previous unit but more biotite in this unit
24/06/2017	17LOO024	MH01	90	95	27.43	28.96	Felsic gneiss	SIL	Bleached rock, more uniformly stained than previous units, yellow orange coloured clay
24/06/2017	17LOO024	MH01	95	135	28.96	41.15	Felsic gneiss		All is quite biotite rich, some intervals have more feldspar / stained quartz than others, also a little more quartz in some intervals but not enough to divide it into separate rock type
24/06/2017	17LOO024	MH01	135	140	41.15	42.67	Felsic gneiss		Not much biotite, mostly orange feldspar/ stained quartz, can't see signs of any sulphide
24/06/2017	17LOO024	MH01	140	145	42.67	44.20	Felsic gneiss		Appears to be bleached, not much biotite, good amount of sericite
24/06/2017	17LOO024	MH01	145	175	44.20	53.34	Felsic gneiss		Varying amount of biotite and pinky crystals, barely any remnant sulphide, probably layers of schist alternating with gneiss
24/06/2017	17LOO024	MH01	175	200	53.34	60.96	Felsic gneiss		More biotite than previous unit, still some pinky crystals
24/06/2017	17LOO024	MH01	200	215	60.96	65.53	Felsic gneiss		Has yellowish clay like mineral especially in 205-210ft, little bit of quartz and the rest biotite
24/06/2017	17LOO024	MH01	215	225	65.53	68.58	Felsic gneiss		Looks more silicified than surrounding rock, kfeld, biotite
24/06/2017	17LOO024	MH01	225	235	68.58	71.63	Felsic gneiss		Majority biotite and some quartz
24/06/2017	17LOO024	MH01	235	245	71.63	74.68	Felsic gneiss		Appears to be more silicified and slightly hematite stained, little less biotite than surrounding rock
24/06/2017	17LOO024	MH01	245	285	74.68	86.87	Felsic gneiss		Majority biotite, the odd pinky crystal, the last interval looks slightly hematite stained
24/06/2017	17LOO024	MH01	285	290	86.87	88.39	Felsic gneiss		Biotite and kspar, kspar is possibly stained quartz hard to tell
24/06/2017	17LOO024	MH01	290	310	88.39	94.49	Felsic gneiss		
24/06/2017	17LOO024	MH01	310	315	94.49	96.01	Felsic gneiss		Almost same as the previous unit, just more quartz, some hematite stained pieces
24/06/2017	17LOO024	MH01	315	320	96.01	97.54	Felsic gneiss		Yellowish stain on the rock, maybe from the clay mineral..could be a small fracture in there
24/06/2017	17LOO024	MH01	320	330	97.54	100.58	Felsic gneiss		Majority biotite, some quartz and what could possibly be kfeld but could be stained quartz as well

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Date	Hole ID	Tech	Fromft	To_ft	From_m	To_m	Lithology	Altn	Remarks
26/06/2017	17LOO025	MH01	0	20	0.00	6.10	Felsic gneiss		Bright orangy feldspar/ stained quartz, biotite, more remnant sulphide in 5-10ft, less biotite in 15-20ft
26/06/2017	17LOO025	MH01	20	30	6.10	9.14	Felsic gneiss		Biotite and quartz, little bit of feldspar, little bit of remnant sulphide, tiny bit of hematite staining
26/06/2017	17LOO025	MH01	30	45	9.14	13.72	Felsic gneiss		Little bit of remnant sulphide, biotite and feldspar, with some quartz, more orange crystals
26/06/2017	17LOO025	MH01	45	60	13.72	18.29	Felsic gneiss	SIL	Most biotite is gone, most of the rock is reddish orange stained, not much for remnant sulphide though
26/06/2017	17LOO025	MH01	60	80	18.29	24.38	Felsic gneiss	SIL	Tiny bit more biotite, looks like more sericite, appears to be more remnant sulphide, 70-75ft has more orangy staining, 75-80ft has most remnant sulphides
26/06/2017	17LOO025	MH01	80	105	24.38	32.00	Felsic gneiss	SIL	Little more biotite than the previous 2 silicified units..more in certain intervals, more remnant sulphide than the previous units as well
26/06/2017	17LOO025	MH01	105	125	32.00	38.10	Felsic gneiss		Looks like more feldspar in the rock, lots of pinky crystals from 105-115ft, slightly more biotite in 115-125ft
26/06/2017	17LOO025	MH01	125	130	38.10	39.62	Felsic gneiss		More biotite rich than surrounding units
26/06/2017	17LOO025	MH01	130	135	39.62	41.15	Felsic gneiss		Looks more silicious than a lot of other surrounding rock
26/06/2017	17LOO025	MH01	135	185	41.15	56.39	Felsic gneiss		Various amounts of biotite and kspar but all similar rock, nothing much for remnant sulphide
26/06/2017	17LOO025	MH01	185	205	56.39	62.48	Felsic gneiss		Looks like some biotite schist in there, little more remnant sulphide in 195-205ft
26/06/2017	17LOO025	MH01	205	225	62.48	68.58	Felsic gneiss	HEM	Very orangy red stained, hard to see remnant sulphide, appears to be some biotite still present
26/06/2017	17LOO025	MH01	225	245	68.58	74.68	Felsic gneiss		Still hematite stained but less than previous unit, some remnant sulphide, more biotite than previous unit
26/06/2017	17LOO025	MH01	245	250	74.68	76.20	Felsic gneiss		Doesn't appear to be quite as silicious as previous unit or have as much lighter orange chips, but still slightly hematite stained
26/06/2017	17LOO025	MH01	250	255	76.20	77.72	Felsic gneiss		Similar to the previous unit but not hematite staining or very little
26/06/2017	17LOO025	MH01	255	265	77.72	80.77	Felsic gneiss		Majority biotite, a few pinky crystals but not many
26/06/2017	17LOO025	MH01	265	270	80.77	82.30	Felsic gneiss	SIL	Significant amount more quartz, not stained
26/06/2017	17LOO025	MH01	270	315	82.30	96.01	Felsic gneiss		Mostly biotite, some quartz, the odd little pinky chips
26/06/2017	17LOO025	MH01	315	330	96.01	100.58	Felsic gneiss		320-325ft is basically biotite schist like the previous unit, the other two intervals look like they have some feldspar and have more quartz
27/06/2017	17LOO026	MH01	0	5	0.00	1.52	Felsic gneiss		Looks decently silicious, a variety of biotite rich chips, feldspar chips and quartz
27/06/2017	17LOO026	MH01	5	10	1.52	3.05	Felsic gneiss		Lots of biotite, quartz and looks like a few pieces of feldspar
27/06/2017	17LOO026	MH01	10	20	3.05	6.10	Felsic gneiss	SER	Good amount of sericite, not much biotite, more bleached than surrounding rock, moderate amount of remnant sulphide
27/06/2017	17LOO026	MH01	20	70	6.10	21.34	Felsic gneiss	SIL	Good amount of quartz and feldspar, some bright orange chips..either kspar or staining, some biotite a little more biotite than the last unit, more silicious unit with less biotite at 55-60ft
28/06/2017	17LOO026	MH01	70	80	21.34	24.38	Felsic gneiss	SIL	Hematite stained, barely any biotite, looks like there is some kspar
28/06/2017	17LOO026	MH01	80	90	24.38	27.43	Felsic gneiss		Similar to unit 20-70ft, little bit more pinky crystals, probably a combo of kfeld and stained quartz
28/06/2017	17LOO026	MH01	90	105	27.43	32.00	Felsic gneiss	SER	Appears to have a decent amount of sericite, not as much after 100ft, still some biotite, decent amount of remnant sulphide

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Date	Hole ID	Tech	Fromft	To_ft	From_m	To_m	Lithology	Altn	Remarks
28/06/2017	17LOO026	MH01	105	120	32.00	36.58	Felsic gneiss		Biotite, feldspar, quartz
28/06/2017	17LOO026	MH01	120	130	36.58	39.62	Felsic gneiss	SER	Looks more bleached, more sericite, some remnant sulphide
28/06/2017	17LOO026	MH01	130	155	39.62	47.24	Felsic gneiss	SER	More biotite than previous unit, less remnant sulphide
28/06/2017	17LOO026	MH01	155	170	47.24	51.82	Felsic gneiss	SER	Most remnant sulphide in 155-160ft, less biotite than surrounding rock, more bleached than surrounding unit
28/06/2017	17LOO026	MH01	170	180	51.82	54.86	Biotite schist		Some more sericite and remnant sulphide in 170-175
28/06/2017	17LOO026	MH01	180	205	54.86	62.48	Biotite schist		Gets less biotite/ lighter colour as gets deeper in this unit
28/06/2017	17LOO026	MH01	205	225	62.48	68.58	Felsic gneiss	SIL	Quartz rich and orange staining, very little biotite
28/06/2017	17LOO026	MH01	225	245	68.58	74.68	Felsic gneiss	SER	Less bleached than previous unit, little bit of remnant sulphide
28/06/2017	17LOO026	MH01	245	260	74.68	79.25	Biotite schist		
28/06/2017	17LOO026	MH01	260	330	79.25	100.58	Felsic gneiss		Biotite rich, some intervals have a little more feldspar than other, some have a little less biotite than others but all generally the same rock unit, little remnant sulphide throughout
28/06/2017	17LOO027	MH01	0	30	0.00	9.14	Felsic gneiss		Chips rich in biotite, also chips that appear to be kspar, some quartz, looks like there is more biotite than feldspar
28/06/2017	17LOO027	MH01	30	55	9.14	16.76	Felsic gneiss		Some biotite but less than previous unit, more feldspar, more sericitic alteration in 40-45ft
28/06/2017	17LOO027	MH01	55	70	16.76	21.34	Felsic gneiss		Some sericite alteration, kspar, more biotite than surrounding units
28/06/2017	17LOO027	MH01	70	95	21.34	28.96	Felsic gneiss		Appears to be lots of kspar, little bit of biotite and some quartz, tiny bit of remnant sulphide, most remnant sulphide in 80-85
29/06/2017	17LOO027	MH01	95	120	28.96	36.58	Felsic gneiss		Some biotite, feldspar, not as many pinky chips as previous unit
29/06/2017	17LOO027	MH01	120	160	36.58	48.77	Felsic gneiss		Biotite and quartz, very biotite rich
29/06/2017	17LOO027	MH01	160	165	48.77	50.29	Felsic gneiss		Fairly silicious, some pinky chips, either stained quartz or kfeld or both, no remnant sulphide
29/06/2017	17LOO027	MH01	165	170	50.29	51.82	Felsic gneiss		Some sericitic alteration, no pinky chips, good amount of biotite
29/06/2017	17LOO028	MH01	0	10	0.00	3.05	Felsic gneiss		Decent amount of biotite rich chips and also a decent amount of feldspar
29/06/2017	17LOO028	MH01	10	65	3.05	19.81	Felsic gneiss		Little bit of sericite, biotite and quartz, remnant sulphide in interval 35-40ft, also some lighter chips in that interval
29/06/2017	17LOO028	MH01	65	110	19.81	33.53	Felsic gneiss		Appears to have more biotite than the last unit, a few pinky crystals in each interval, and a little bit of sericite alteration in some intervals
29/06/2017	17LOO028	MH01	110	120	33.53	36.58	Felsic gneiss		Slight decrease in biotite and lightening in colour
29/06/2017	17LOO028	MH01	120	125	36.58	38.10	Felsic gneiss		Little more hematite stain to this rock, possibly some remnant sulphide
29/06/2017	17LOO028	MH01	125	130	38.10	39.62	Felsic gneiss		Biotite rich chips and feldspar chips, decent amount of quartz
29/06/2017	17LOO028	MH01	130	135	39.62	41.15	Felsic gneiss	SIL	Definitely some remnant sulphide, quite bleached, barely any biotite
29/06/2017	17LOO028	MH01	135	140	41.15	42.67	Felsic gneiss	HEM	Little more biotite than previous unit, darker reddish stain, tough to tell but possibly a little more remnant sulphide
30/06/2017	17LOO028	MH01	140	145	42.67	44.20	Felsic gneiss		Still some remnant sulphide, a lot more biotite than surrounding rock
30/06/2017	17LOO028	MH01	145	155	44.20	47.24	Felsic gneiss		Good amount of quartz, lighter than surrounding rock, moderate amount of remnant sulphide
30/06/2017	17LOO028	MH01	155	160	47.24	48.77	Felsic gneiss		Biotite and quartz with some hematite staining

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Date	Hole ID	Tech	Fromft	To_ft	From_m	To_m	Lithology	Altn	Remarks
30/06/2017	17LOO028	MH01	160	175	48.77	53.34	Felsic gneiss		Decent amount of feldspar, orangy crystals are most likely a combo of kfeld and stained quartz, good amount of biotite, some remnant sulphide
30/06/2017	17LOO028	MH01	175	180	53.34	54.86	Felsic gneiss		Basically just biotite and quartz with a little hematite staining
30/06/2017	17LOO028	MH01	180	195	54.86	59.44	Felsic gneiss		Decrease in biotite with depth, some remnant sulphides, pinky crystals, little bit of sericite alteration
30/06/2017	17LOO028	MH01	195	215	59.44	65.53	Felsic gneiss		More bleached rock, some remnant sulphide, little bit of biotite but much less than previous unit
30/06/2017	17LOO028	MH01	215	235	65.53	71.63	Felsic gneiss		Kspar, more biotite than in previous unit, some remnant sulphide
30/06/2017	17LOO028	MH01	235	240	71.63	73.15	Felsic gneiss		More sericite than surrounding rock
30/06/2017	17LOO028	MH01	240	260	73.15	79.25	Felsic gneiss		Much lighter and orange than surrounding rock, more kspar, 255-260ft has a decent amount of remnant sulphide
30/06/2017	17LOO028	MH01	260	270	79.25	82.30	Felsic gneiss		More biotite than surrounding rock, tiny bit of remnant sulphide, still some orangy chips, kspar and stained quartz
30/06/2017	17LOO028	MH01	270	285	82.30	86.87	Felsic gneiss		Doesn't look like much kspar but more staining, barely any biotite left, more remnant sulphide in 280-285ft
30/06/2017	17LOO028	MH01	285	305	86.87	92.96	Felsic gneiss		Slight hematite staining, not much remnant sulphide
30/06/2017	17LOO028	MH01	305	320	92.96	97.54	Felsic gneiss		Mostly biotite and quartz, some pinky chips
30/06/2017	17LOO028	MH01	320	330	97.54	100.58	Felsic gneiss		Looks very similar to unit from 285-305ft
01/07/2017	17LOO029	MH01	0	5	0.00	1.52	Felsic gneiss		More kfeld than the next rock, some sericite
01/07/2017	17LOO029	MH01	5	15	1.52	4.57	Felsic gneiss		Not much kfeld, decent amount of sericite and remnant sulphide, still dark in colour lots of biotite
01/07/2017	17LOO029	MH01	15	45	4.57	13.72	Felsic gneiss		Rich in biotite, some kfeld and sericite, little bit of quartz
01/07/2017	17LOO029	MH01	45	55	13.72	16.76	Felsic gneiss	SIL	Similar to previous unit, bit less biotite and more sericite, more quartz, little more remnant sulphide
01/07/2017	17LOO029	MH01	55	65	16.76	19.81	Felsic gneiss	SER	Not much feldspar but good amount of sericite, mostly biotite, decent amount of remnant sulphide
01/07/2017	17LOO029	MH01	65	70	19.81	21.34	Felsic gneiss		Mainly biotite and quartz
01/07/2017	17LOO029	MH01	70	90	21.34	27.43	Felsic gneiss	SIL	Still some biotite left, some staining, hard to tell how much feldspar there is, maybe just stained quartz, little bit of remnant sulphide
01/07/2017	17LOO029	MH01	90	100	27.43	30.48	Felsic gneiss	SIL	Almost no biotite, quite bleached, good amount of quartz, definitely more remnant sulphide than previous unit
01/07/2017	17LOO029	MH01	100	125	30.48	38.10	Felsic gneiss		Looks like some biotite schist in interval 110-115ft but the rest doesn't have as much biotite and good amount of feldspar, some quartz
01/07/2017	17LOO029	MH01	125	145	38.10	44.20	Felsic gneiss		More biotite than previous unit, some sericite and some quartz, more remnant sulphide than surrounding rock
01/07/2017	17LOO029	MH01	145	200	44.20	60.96	Felsic gneiss		Very biotite rich, all units have at least a few pinky chips, some intervals have a little more quartz
01/07/2017	17LOO029	MH01	200	210	60.96	64.01	Felsic gneiss		Little brighter in colour, slightly more pinky chips/slightly more hematite stained, still similar to previous unit
01/07/2017	17LOO029	MH01	210	215	64.01	65.53	Felsic gneiss		Mainly biotite and quartz
01/07/2017	17LOO029	MH01	215	225	65.53	68.58	Felsic gneiss		Some more pinky chips/ slightly more hematite stained, little bit lighter than surrounding rock, still very similar to surrounding rock though

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Date	Hole ID	Tech	Fromft	To_ft	From_m	To_m	Lithology	Altn	Remarks
01/07/2017	17LOO029	MH01	225	255	68.58	77.72	Felsic gneiss		240-245ft has a few more pink chips/slightly more hematite stained , the rest are mainly biotite and quartz with a few pinky chips
01/07/2017	17LOO029	MH01	255	270	77.72	82.30	Felsic gneiss		Slightly more hematite stained than surrounding rock, less biotite than previous unit, more pinky quartz and feldspar
01/07/2017	17LOO029	MH01	270	290	82.30	88.39	Felsic gneiss		More unstained quartz than surrounding rock, biotite and some pinky chips..combo of kspar and stained quartz
01/07/2017	17LOO029	MH01	290	295	88.39	89.92	Biotite schist		Little more hematite stain than surrounding rock, still similar to previous units, little more biotite in 280-285ft
01/07/2017	17LOO029	MH01	295	315	89.92	96.01	Biotite schist		More biotite than previous biotite schists, appears to be almost all biotite, very dark
01/07/2017	17LOO029	MH01	315	330	96.01	100.58	Biotite schist		Majority biotite and some unstained quartz
01/07/2017	17LOO030	MH01	0	25	0.00	7.62	Felsic gneiss		Good amount of kspar, increase of biotite with depth
01/07/2017	17LOO030	MH01	25	40	7.62	12.19	Felsic gneiss		Little bit bleached compared to surrounding rock, light orangy colour, still a little biotite present, 35-40ft has more rusty colour and appears to have more remnant sulphide
01/07/2017	17LOO030	MH01	40	55	12.19	16.76	Felsic gneiss		Little more biotite than previous unit, fairly similar to last unit though
01/07/2017	17LOO030	MH01	55	75	16.76	22.86	Felsic gneiss		Another increase in biotite from previous unit, still kfeld and quartz but not as much quartz
01/07/2017	17LOO030	MH01	75	85	22.86	25.91	Felsic gneiss	SER	Good amount of sericite and biotite, little bit of feldspar, some remnant sulphide
01/07/2017	17LOO030	MH01	85	120	25.91	36.58	Felsic gneiss		Majority biotite and quartz, more pinky chips in some intervals (feldspar/stained quartz), last couple intervals appear have more rusty areas on the chips
02/07/2017	17LOO031	MH01	0	25	0.00	7.62	Felsic gneiss		Lots of kspar, some biotite and increases with depth
02/07/2017	17LOO031	MH01	25	35	7.62	10.67	Felsic gneiss	SER	Good amount of remnant sulphide in 25-30ft, mostly sericite and biotite, some quartz
02/07/2017	17LOO031	MH01	35	85	10.67	25.91	Felsic gneiss	SIL	Decent amount of quartz present, mild staining, some remnant sulphide, most in 35-40, 50-55, and 60-65ft
02/07/2017	17LOO031	MH01	85	135	25.91	41.15	Felsic gneiss		Mostly biotite, some quartz, a few pinky crystals (either stained quartz or kfeld)
02/07/2017	17LOO031	MH01	135	175	41.15	53.34	Felsic gneiss		Very similar to previous unit, little bit more pinky chips, a tiny bit of hematite stain in certain intervals
02/07/2017	17LOO031	MH01	175	220	53.34	67.06	Felsic gneiss		Still very similar to last 2 units, less pink chips, but mostly biotite an quartz
02/07/2017	17LOO031	MH01	220	250	67.06	76.20	Felsic gneiss		Still similar to previous units but some more pinky orange chips, looks like kfeld
02/07/2017	17LOO031	MH01	250	260	76.20	79.25	Felsic gneiss		Still similar to previous units just more kspar than surrounding rock, maybe a little more quartz
02/07/2017	17LOO031	MH01	260	300	79.25	91.44	Felsic gneiss		Almost identical to unit 220-250ft, a lot of biotite and some pinky orange chips of kfeld, some stained and unstained quartz as well
02/07/2017	17LOO031	MH01	300	325	91.44	99.06	Felsic gneiss		Significant amount more of reddish pink kfeld and stained quartz, also some unstained quartz
02/07/2017	17LOO031	MH01	325	330	99.06	100.58	Biotite schist		Decrease in pinkish chips with depth, last interval is majority biotite and quartz
03/07/2017	17LOO032	MH01	0	10	0.00	3.05	Felsic gneiss		Decent amount of biotite and feldspar, has an orangy dirty colour, slightly more reddish in the first interval
03/07/2017	17LOO032	MH01	10	40	3.05	12.19	Felsic gneiss		More biotite rich, some hematite staining on certain chips little more feldspar/ quartz in 10-15 and 35-40ft
03/07/2017	17LOO033	MH01	0	20	0.00	6.10	Felsic gneiss		Kfeld, some biotite, good amount of quartz

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Date	Hole ID	Tech	Fromft	To_ft	From_m	To_m	Lithology	Altn	Remarks
03/07/2017	17LOO033	MH01	20	30	6.10	9.14	Felsic gneiss		Increase in amount of biotite and decrease in kspar, similar amount of quartz, rusty patches on some chips
04/07/2017	17LOO034	MH01	0	5	0.00	1.52	Felsic gneiss		Looks stained from soil, kfeld, biotite, sericite
04/07/2017	17LOO034	MH01	5	10	1.52	3.05	Felsic gneiss		Larger biotite rich chips and some smaller kfeld/ stained chips
04/07/2017	17LOO034	MH01	10	35	3.05	10.67	Felsic gneiss		Much more biotite rich than surrounding rock, could be a biotite schist but there still looks to be some feldspar, also some quartz
04/07/2017	17LOO034	MH01	35	50	10.67	15.24	Felsic gneiss	SIL	Still a little bit of biotite, bleached and stained
04/07/2017	17LOO034	MH01	50	75	15.24	22.86	Felsic gneiss	SIL	More remnant sulphide than surrounding rock, some intervals more bleached than others
04/07/2017	17LOO034	MH01	75	90	22.86	27.43	Felsic gneiss	SIL	Looks like there is a little more kfeld and less quartz than surrounding rock, less altered
04/07/2017	17LOO034	MH01	90	115	27.43	35.05	Felsic gneiss		More bleached and orangy than the previous unit, tough to say what is kspar and what has been bleached and stained, little bit of remnant sulphide
04/07/2017	17LOO034	MH01	115	135	35.05	41.15	Felsic gneiss	SIL	More biotite than previous unit, not as bleached, still a decent amount of quartz and pinky orange chips
04/07/2017	17LOO034	MH01	135	150	41.15	45.72	Felsic gneiss		Increase in biotite, pretty dark in colour now, still some pinky orange chips, probably a combo of stained quartz and kfeld
04/07/2017	17LOO034	MH01	150	155	45.72	47.24	Felsic gneiss	SIL	Pinky orange colour, barely any biotite, hard to tell if there is any kfeld or if it's just stained quartz, some tiny pieces of remnant sulphide
04/07/2017	17LOO034	MH01	155	170	47.24	51.82	Felsic gneiss	SIL	More of deep reddish stain, still lots of quartz and there is unstained quartz, similar amount of remnant sulphide
04/07/2017	17LOO034	MH01	170	175	51.82	53.34	Felsic gneiss	SIL	Brighter orange stain and no biotite, quite bleached, lots of quartz
04/07/2017	17LOO034	MH01	175	185	53.34	56.39	Felsic gneiss	SIL	Little more biotite than the previous unit, still orangy stain on chips, can see more remnant sulphide than in previous unit
04/07/2017	17LOO034	MH01	185	200	56.39	60.96	Felsic gneiss		Increase in biotite and decrease in quartz, looks like more feldspar instead of just staining, little bit of sericite
04/07/2017	17LOO035	MH01	0	5	0.00	1.52	Felsic gneiss		Some biotite, looks like it's coated with some soil or has been altered near surface
04/07/2017	17LOO035	MH01	5	30	1.52	9.14	Felsic gneiss		
04/07/2017	17LOO035	MH01	30	60	9.14	18.29	Felsic gneiss		More biotite, still a good amount of quartz, reddish hematite stain, not really bleached much
04/07/2017	17LOO035	MH01	60	65	18.29	19.81	Felsic gneiss		Increase in biotite, not as much kspar
04/07/2017	17LOO035	MH01	65	70	19.81	21.34	Felsic gneiss	SIL	Red orange stain, little bit of biotite, could be mostly stained quartz or a lot of kfeld
04/07/2017	17LOO035	MH01	70	75	21.34	22.86	Felsic gneiss	SIL	More bleached than surrounding rock, little bit of biotite, little bit of sericite, some pinky chips..probably a combo of stained quartz and kspar
04/07/2017	17LOO035	MH01	75	100	22.86	30.48	Felsic gneiss		Very slightly more biotite than the last unit, not really bleached, does look like it has some red orange staining which could also be mostly kfeld
05/07/2017	17LOO035	MH01	100	110	30.48	33.53	Felsic gneiss	SIL	Bleached unit with a good amount of remnant sulphide
05/07/2017	17LOO035	MH01	110	120	33.53	36.58	Biotite schist		Mostly biotite, very dark colour
05/07/2017	17LOO035	MH01	120	140	36.58	42.67	Felsic gneiss		Still a good amount of biotite, very mild reddish stain, good amount of feldspar and some unstained quartz
05/07/2017	17LOO035	MH01	140	160	42.67	48.77	Felsic gneiss		More orangy red colour, more remnant sulphide than previous unit, maybe a little less biotite but similar

Appendix I

Date	Hole ID	Tech	Fromft	To_ft	From_m	To_m	Lithology	Altn	Remarks
05/07/2017	17LOO035	MH01	160	245	48.77	74.68	Felsic gneiss		Some intervals have a little bit of remnant sulphide, 185-190 has a little bit of sericite alteration, some interval have slightly more quartz in them, 225-230 and 240-245 have some more remnant sulphide
05/07/2017	17LOO035	MH01	245	250	74.68	76.20	Felsic gneiss	SIL	Less biotite than surrounding rock and more bleached, similar amount of remnant sulphide to the intervals in the last unit that had the most remnant sulphide
05/07/2017	17LOO035	MH01	250	260	76.20	79.25	Felsic gneiss	SIL	Getting more biotite with depth, still some remnant sulphide
05/07/2017	17LOO035	MH01	260	290	79.25	88.39	Felsic gneiss		Mostly biotite and quartz, more red staining in the last interval 285-290
05/07/2017	17LOO035	MH01	290	300	88.39	91.44	Felsic gneiss		Decrease in biotite, and increase in feldspar, nothing noticeable for remnant sulphide

**Appendix II:
Drill Database with Assays**

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pct	as_pp	au_ppl	th_pp	
1600097	17L00009	0	5	SR03	20	Dry	Rock	WHI17000128	3.57	5.741	2.5	7.6	5.8	16	3.3	4.3	2.8	107	1.94	1.5	5332	10.5	
1600098	17L00009	5	10	SR03	23	Dry	Rock	WHI17000128	4.55	2.346	3	9.1	4.8	16	2.2	2.4	2	58	1.3	2.8	2401	13.1	
1600099	17L00009	10	15	SR03	35	Dry	Rock	WHI17000128	5.08	0.511	1.9	5	2.7	14	0.3	2.1	1.8	55	1.33	1.2	463.7	17.5	
1600101	17L00009	15	20	SR03	20	Dry	Rock	WHI17000128	3.03	1.427	1.1	3.2	2.8	11	0.6	2.3	1.9	36	1.24	0.6	1365	21.2	
1600102	17L00009	20	25	SR03	20	Dry	Rock	WHI17000128	3.81	10	3.7	14.9	11.7	23	6.7	1.6	3.8	45	3.3	4.4	18088	10.6	
1600103	17L00009	25	30	SR03	20	Dry	Rock	WHI17000128	3.26	0.185	13.9	10.8	3.8	24	0.05	1.2	4.1	336	1.09	0.6	150.7	14.3	
1600104	17L00009	30	35	SR03	20	Dry	Rock	WHI17000128	3.72	0.062	5.8	8.1	3.8	29	0.05	1.9	2.6	242	1.08	0.25	59.4	12.7	
1600105	17L00009	35	40	SR03	20	Dry	Rock	WHI17000128	3.56	0.14	3.6	4.9	2.9	22	0.05	1	2.2	221	0.96	0.25	130	15.1	
1600106	17L00009	40	45	SR03	20	Dry	Rock	WHI17000128	3.59	0.09	2.4	7.9	2.5	23	0.05	1.2	2.6	252	1.01	0.5	75.8	13.6	
1600107	17L00009	45	50	SR03	20	Dry	Rock	WHI17000128	3.7	0.037	12.3	5.4	3.3	19	0.05	2	2.1	214	0.89	0.25	29.1	14.7	
1600108	17L00009	50	55	SR03	20	Dry	Rock	WHI17000128	3.79	0.038	6.3	5.9	2.7	17	0.05	1.2	1.9	192	0.81	0.25	31.4	15.1	
1600109	17L00009	55	60	SR03	20	Dry	Rock	WHI17000128	3.84	0.025	1.7	4.7	1.6	22	0.05	1.8	2.5	281	1	0.25	21.7	15.9	
1600110	17L00009	60	65	SR03	20	Dry	Rock	WHI17000128	4.21	0.029	1.7	3.7	1.9	30	0.05	2.1	2.5	332	1.19	0.25	24.8	12.5	
1600111	17L00009	65	70	SR03	20	Dry	Rock	WHI17000128	3.6	0.034	2.1	9	2.4	21	0.05	1.2	2.3	284	1	1.9	30.5	16.3	
1600112	17L00009	70	75	SR03	20	Dry	Rock	WHI17000128	3.46	0.025	1	5.4	2.9	18	0.05	1.1	1.4	207	0.82	1	18.5	12.5	
1600113	17L00009	75	80	SR03	20	Dry	Rock	WHI17000128	3.65	0.018	1	5.8	3.5	29	0.05	2.3	2.1	253	1.01	0.25	16.9	9.5	
1600114	17L00009	80	85	SR03	20	Dry	Rock	WHI17000128	3.71	0.026	1.2	5.9	3.3	23	0.05	1	2.1	332	1.1	0.25	23	14.4	
1600115	17L00009	85	90	SR03	20	Dry	Rock	WHI17000128	3.8	0.031	1.2	7.3	1.8	19	0.05	1.4	1.9	220	0.99	0.25	27.7	15.4	
1600116	17L00009	90	95	SR03	20	Dry	REP	WHI17000128	4.76	0.031	1.5	5.4	2.4	24	0.05	2.3	2.3	272	1.12	0.25	26.8	13.7	
1600116	17L00009	90	95	SR03	20	Dry	Rock	WHI17000128		0.029													
1600117	17L00009	95	100	SR03	20	Dry	Rock	WHI17000128	4.25	0.016	0.9	6.9	2.7	21	0.05	1.1	2	225	0.9	0.25	14.5	15.1	
1600118	17L00009	100	105	SR03	20	Dry	Rock	WHI17000128	4.24	0.019	1.5	5.2	3.7	25	0.05	1	1.7	283	0.9	0.25	19.1	10.9	
1600119	17L00009	105	110	SR03	20	Dry	Rock	WHI17000128	4.3	0.039	1.2	6	2.5	23	0.05	2.9	2.3	194	0.99	0.25	40.7	12.5	
1600121	17L00009	110	115	SR03	20	Dry	Rock	WHI17000128	4.46	0.011	1	6	2.5	20	0.05	0.9	1.6	209	0.83	0.25	11	9.9	
1600122	17L00009	115	120	SR03	20	Dry	Rock	WHI17000128	4.07	0.01	0.9	7.5	2.1	18	0.05	1.2	1.8	249	0.97	0.25	7.7	15.3	
1600123	17L00009	120	125	SR03	20	Dry	Rock	WHI17000128	3.84	0.013	1.3	4.7	2.3	33	0.05	2.6	2.7	388	1.25	0.25	12.5	17.5	
1600124	17L00009	125	130	SR03	20	Dry	Rock	WHI17000128	4.07	0.007	1.2	12.3	2.2	20	0.05	1.4	2	241	1.01	0.25	7	14.3	
1600125	17L00009	130	135	SR03	20	Dry	Rock	WHI17000128	4.41	0.008	1.2	7.8	2	19	0.05	1.2	1.6	205	0.93	0.25	11.1	15	
1600125	17L00009	130	135	SR03	20	Dry	REP	WHI17000128			1.2	7.5	1.9	20	0.05	1.3	1.8	204	0.92	0.25	12	15.4	
1600126	17L00009	135	140	SR03	20	Dry	Rock	WHI17000128	3.99	0.012	1.4	6.3	2.9	28	0.05	2.8	2.7	273	1.17	0.25	13.9	13	
1600132	17L00009	165	170	SR03	20	Dry	Rock	WHI17000128	3.67	0.0025	1.1	4.4	3.5	14	0.05	0.9	1.4	302	0.7	0.25	4.5	14.7	
1600133	17L00009	170	175	SR03	20	Dry	Rock	WHI17000128	3.82	0.0025	0.9	5.9	2.9	19	0.05	0.9	1.5	274	0.77	1.1	2	12.1	
1600134	17L00009	175	180	SR03	20	Dry	Rock	WHI17000128	3.79	0.0025	1.6	6.6	4	21	0.05	2.3	2.1	307	1	0.25	2.7	13.3	
1600135	17L00009	180	185	SR03	20	Dry	DUP	WHI17000128	4.04	0.0025	1.1	4.2	3.9	23	0.05	1.1	2.3	312	0.9	0.25	3.6	13.3	
1600135	17L00009	180	185	SR03	20	Dry	Rock	WHI17000128		0.0025	0.9	4.8	3.8	23	0.05	1	2.2	318	0.92	0.25	4.1	13.5	
1600136	17L00009	185	190	SR03	20	Dry	Rock	WHI17000128	4.03	0.0025	1.2	3.8	3.8	31	0.05	1.3	1.8	299	0.91	0.25	1.3	15.3	
1600137	17L00009	190	195	SR03	20	Dry	Rock	WHI17000128	4.27	0.0025	1.2	4.9	4.1	31	0.05	2.4	2.2	322	1.03	0.25	3.1	12	

Appendix II

sample	sr_pi	cd_ppr	sbppm	bippm	vppm	capct	p_pct	la_cr	mg_pct	ba_ppr	tipct	bppr	al_pct	na_pct	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga_	seppm	teppr	
1600097	12	0.05	0.1	5.3	4	0.05	0.02	21	6	0.03	116	0.002	10	0.38	0.023	0.21	1.6	0.65	0.9	0.05	0.13	1	0.25	16.8
1600098	7	0.05	0.05	1	3	0.05	0.012	12	4	0.03	84	0.002	10	0.47	0.013	0.18	1.3	0.12	0.8	0.05	0.025	1	0.25	3.3
1600099	4	0.05	0.05	0.1	3	0.07	0.012	5	4	0.02	47	0.001	10	0.41	0.003	0.15	0.9	0.2	0.9	0.05	0.025	1	0.25	0.5
1600101	5	0.05	0.05	0.4	3	0.05	0.01	11	4	0.03	60	0.001	10	0.48	0.021	0.19	0.5	0.26	0.8	0.05	0.025	1	0.25	1.6
1600102	10	0.05	0.3	6.1	19	0.1	0.025	8	4	0.05	98	0.002	10	0.63	0.031	0.16	0.2	1.63	3.1	0.05	0.025	2	0.25	19
1600103	15	0.05	0.05	0.05	7	0.9	0.02	47	2	0.02	101	0.003	10	0.6	0.008	0.14	0.3	0.06	1.8	0.05	0.025	2	0.25	0.1
1600104	28	0.05	0.05	0.05	16	1.48	0.032	23	4	0.09	71	0.01	10	0.54	0.008	0.17	0.4	0.005	2.1	0.05	0.025	2	0.25	0.1
1600105	12	0.05	0.05	0.05	7	0.49	0.019	27	2	0.08	66	0.013	10	0.57	0.022	0.2	0.4	0.02	2	0.05	0.025	2	0.25	0.1
1600106	11	0.05	0.05	0.05	8	0.29	0.02	30	3	0.08	86	0.02	10	0.39	0.039	0.18	0.7	0.005	1.7	0.05	0.025	2	0.25	0.1
1600107	34	0.05	0.05	0.05	6	1.24	0.013	27	5	0.05	57	0.009	10	0.45	0.028	0.14	0.3	0.005	2.1	0.05	0.025	2	0.25	0.1
1600108	27	0.05	0.05	0.05	4	1.16	0.015	27	2	0.05	58	0.005	10	0.38	0.007	0.12	0.4	0.005	1.7	0.05	0.025	1	0.25	0.1
1600109	17	0.05	0.05	0.05	9	0.77	0.016	27	4	0.25	98	0.04	10	0.71	0.035	0.37	0.7	0.005	2	0.1	0.025	3	0.25	0.1
1600110	19	0.05	0.05	0.05	10	0.83	0.015	22	5	0.24	78	0.048	10	0.64	0.039	0.34	0.6	0.005	2.2	0.1	0.025	3	0.25	0.1
1600111	14	0.05	0.05	0.05	7	0.69	0.014	29	4	0.08	76	0.02	10	0.44	0.035	0.18	0.5	0.005	1.8	0.05	0.025	2	0.25	0.1
1600112	29	0.05	0.05	0.05	7	1.08	0.017	23	3	0.07	52	0.016	10	0.45	0.035	0.17	0.4	0.005	1.9	0.05	0.025	2	0.25	0.1
1600113	40	0.05	0.05	0.05	11	1.28	0.019	17	6	0.18	65	0.03	10	0.72	0.036	0.25	0.5	0.005	1.9	0.05	0.025	3	0.25	0.1
1600114	30	0.05	0.05	0.05	8	1.28	0.013	28	3	0.11	75	0.029	10	0.52	0.031	0.21	0.4	0.005	2.1	0.05	0.025	2	0.25	0.1
1600115	13	0.05	0.05	0.05	7	0.35	0.013	27	3	0.11	61	0.037	10	0.51	0.054	0.27	0.9	0.01	1.7	0.1	0.025	2	0.25	0.1
1600116	20	0.05	0.05	0.05	10	0.64	0.016	26	7	0.15	72	0.037	10	0.52	0.047	0.25	1.1	0.01	2.1	0.1	0.025	3	0.25	0.1
1600116																								
1600117	33	0.05	0.05	0.05	6	0.9	0.013	25	4	0.09	50	0.023	10	0.49	0.038	0.2	0.8	0.005	1.9	0.05	0.025	2	0.25	0.1
1600118	46	0.05	0.05	0.05	6	1.77	0.015	25	3	0.06	101	0.004	10	0.35	0.029	0.13	0.4	0.005	1.5	0.05	0.025	1	0.25	0.1
1600119	19	0.05	0.05	0.05	6	0.56	0.015	25	7	0.11	69	0.014	10	0.51	0.057	0.19	0.5	0.01	1.7	0.05	0.025	2	0.25	0.1
1600121	22	0.05	0.05	0.05	7	0.5	0.013	18	5	0.11	60	0.021	10	0.44	0.043	0.17	0.9	0.005	1.7	0.05	0.025	2	0.25	0.1
1600122	16	0.05	0.05	0.05	7	0.56	0.013	26	4	0.12	64	0.036	10	0.53	0.045	0.25	0.7	0.005	2	0.1	0.025	3	0.25	0.1
1600123	21	0.05	0.05	0.05	11	0.88	0.019	32	7	0.22	70	0.039	10	0.62	0.042	0.26	0.5	0.01	3	0.1	0.025	3	0.25	0.1
1600124	17	0.05	0.05	0.05	8	0.72	0.016	26	4	0.11	66	0.027	10	0.49	0.038	0.2	0.7	0.005	2.1	0.05	0.025	2	0.25	0.1
1600125	17	0.05	0.05	0.05	8	0.43	0.015	21	6	0.12	61	0.024	10	0.48	0.047	0.18	1	0.005	1.9	0.05	0.025	2	0.25	0.1
1600125	17	0.05	0.05	0.05	8	0.43	0.015	22	5	0.12	65	0.024	10	0.48	0.046	0.18	1.2	0.01	1.9	0.05	0.025	2	0.25	0.1
1600126	32	0.05	0.05	0.05	12	1.09	0.018	24	8	0.18	69	0.028	10	0.63	0.044	0.22	0.8	0.005	2.2	0.05	0.025	3	0.25	0.1
1600132	32	0.05	0.05	0.05	3	1.68	0.014	26	4	0.04	138	0.001	10	0.35	0.019	0.18	0.4	0.02	1.3	0.05	0.025	1	0.25	0.1
1600133	29	0.05	0.05	0.05	5	1.42	0.016	25	3	0.04	55	0.005	10	0.54	0.006	0.16	0.4	0.005	1.6	0.05	0.025	2	0.25	0.1
1600134	42	0.05	0.05	0.05	4	1.95	0.014	28	7	0.04	58	0.002	10	0.42	0.005	0.15	0.4	0.005	1.3	0.05	0.025	1	0.25	0.1
1600135	40	0.05	0.05	0.05	5	1.86	0.017	26	5	0.05	71	0.005	10	0.43	0.027	0.17	0.5	0.005	1.7	0.05	0.025	1	0.25	0.1
1600135	39	0.05	0.05	0.05	5	1.87	0.016	26	5	0.05	73	0.005	10	0.49	0.03	0.19	0.4	0.005	1.7	0.05	0.025	2	0.25	0.1
1600136	38	0.05	0.05	0.1	5	1.82	0.014	29	5	0.06	64	0.006	10	0.37	0.033	0.15	0.7	0.01	1.9	0.05	0.025	1	0.25	0.1
1600137	66	0.05	0.05	0.05	7	2.48	0.018	22	8	0.18	149	0.003	10	0.4	0.047	0.17	0.7	0.005	1.4	0.05	0.025	1	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pct	as_pp	au_ppl	th_pp
1600138	17L00009	195	200	SR03	20	Dry	Rock	WHI17000128	4.53	0.0025	1	8.3	3	30	0.05	1.6	2.5	263	1.01	0.25	4.1	11.2
1600139	17L00009	200	205	SR03	20	Dry	Rock	WHI17000128	4.84	0.0025	1.3	5.8	3.7	38	0.05	3.4	3.2	336	1.36	0.25	3.1	12
1600141	17L00009	205	210	SR03	20	Dry	Rock	WHI17000128	3.84	0.008	1.2	5.1	2.7	24	0.05	1.1	1.8	237	0.86	0.25	5.4	14.6
1600142	17L00009	210	215	SR03	20	Dry	Rock	WHI17000128		0.0025												
1600142	17L00009	210	215	SR03	20	Dry	REP	WHI17000128	3.54	0.0025	1.3	5	3.5	26	0.05	1.1	1.9	307	0.98	0.25	6.4	12.4
1600143	17L00009	215	220	SR03	20	Dry	Rock	WHI17000128	4.14	0.0025	1.4	4.2	2.8	26	0.05	2.5	2.2	313	1.12	0.25	3.9	14.5
1600144	17L00009	220	225	SR03	20	Dry	Rock	WHI17000128	3.6	0.006	1.4	5.6	2.6	32	0.05	1.4	2.2	250	1.05	0.25	3.6	17.2
1600145	17L00009	225	230	SR03	20	Dry	Rock	WHI17000128	4.57	0.0025	1.2	5.1	3	36	0.05	1.5	2.2	337	1.09	0.25	2.3	11.9
1600146	17L00009	230	235	SR03	20	Dry	Rock	WHI17000128	4.24	0.0025	1.5	5.8	3	35	0.05	2.3	2.7	274	1.12	0.25	3	12.5
1600147	17L00009	235	240	SR03	20	Dry	Rock	WHI17000128	4.74	0.0025	1.4	5.7	3.1	38	0.05	1.5	2.3	278	1.09	0.8	3.1	11.1
1600148	17L00009	240	245	SR03	20	Dry	Rock	WHI17000128	3.65	0.0025	1.2	4.1	4.4	34	0.05	1.4	2.3	310	1.02	0.9	2.4	13.2
1600149	17L00009	245	250	SR03	20	Dry	Rock	WHI17000128	4.5	0.0025	1.8	2.6	4.8	32	0.05	2.6	3.1	416	1.17	0.25	1.9	13.1
1600150	17L00009	250	255	SR03	20	Dry	Rock	WHI17000128	3.17	0.0025	1.7	2.8	4.8	36	0.05	1.6	2.7	405	1.11	1	3.4	10.4
1600151	17L00009	255	260	SR03	20	Dry	Rock	WHI17000128	2.99	0.0025	2.1	2.9	5.4	41	0.05	1.3	3.2	467	1.46	1.8	1.9	10.4
1600152	17L00009	260	265	SR03	20	Dry	Rock	WHI17000128	4.12	0.0025	2	2.7	4.8	30	0.05	2.1	2.1	354	1.13	1.5	2	11.6
1600153	17L00009	265	270	SR03	20	Dry	Rock	WHI17000128	4.17	0.0025	1.3	4.2	6.9	22	0.05	0.9	1.5	356	0.88	0.8	0.9	10.9
1600154	17L00009	270	275	SR03	20	Dry	Rock	WHI17000128	3.61	0.0025	1.7	6	4.4	30	0.05	1.6	2.3	458	1.07	1	0.25	14.7
1600155	17L00009	275	280	SR03	20	Dry	Rock	WHI17000128	4.84	0.0025	1.8	11.2	3.9	45	0.05	3.1	3	325	1.27	1.5	0.9	13.4
1600156	17L00009	280	285	SR03	20	Dry	Rock	WHI17000128	4	0.0025	1.7	12.3	4.4	60	0.05	2.6	2.7	333	1.1	1.7	0.6	8.4
1600157	17L00009	285	290	SR03	16	Dry	Rock	WHI17000128	2.62	0.0025	2.2	10.9	3.2	64	0.05	3.5	3.3	338	1.26	1.2	0.25	12.7
1600100	17L00009			SR03			CDN-GS-P4F	WHI17000128	0.09	0.515	6.3	268	15.7	51	0.5	110.5	15.5	440	2.85	179	359.9	3.8
1600120	17L00009			SR03			CDN-BL-10	WHI17000128	0.13	0.0025	2.3	25.4	2.4	45	0.2	22.4	9.9	394	2.27	4.6	0.7	1
1600140	17L00009			SR03			CDN-GS-5U	WHI17000128	0.08	5.063	8.3	203	23.6	81	0.7	14.6	11	593	4.15	11.7	3977	3
1600158	17L00010	0	5	SR03	19	Dry	Rock	WHI17000128	3.09	0.0025	3.3	11.2	2.7	35	0.05	4.3	2.9	259	1.17	0.6	1.9	13.6
1600159	17L00010	5	10	SR03	20	Dry	Rock	WHI17000128	5.2	0.0025	1.1	8.2	2.7	30	0.05	2.6	2.5	256	1	0.25	1.2	7.6
1600161	17L00010	10	15	SR03	25	Dry	Rock	WHI17000128	5.63	0.0025	1.2	8.8	2.2	23	0.05	1.7	2.6	231	1.03	0.5	1	13.1
1600162	17L00010	15	20	SR03	20	Dry	Rock	WHI17000128	3.15	0.0025	1.7	13.3	3.4	25	0.05	4	2.9	281	1.35	0.6	0.25	13.7
1600163	17L00010	20	25	SR03	20	Dry	Rock	WHI17000128	3.39	0.0025	1.3	6.6	3.4	25	0.05	1.2	2.7	329	1.22	0.25	0.25	13.4
1600164	17L00010	25	30	SR03	20	Dry	Rock	WHI17000128	3.63	0.0025	1.6	9.9	3.4	25	0.05	3.4	2.8	240	1.33	0.5	1.3	12.4
1600165	17L00010	30	35	SR03	20	Dry	Rock	WHI17000128			1.5	9.6	4.2	15	0.05	1.2	2.1	181	0.86	0.5	4.4	13.3
1600165	17L00010	30	35	SR03	20	Dry	REP	WHI17000128	3.16	0.006	1.4	10.4	4.3	17	0.05	1.2	2.1	183	0.9	0.5	4.4	13.8
1600166	17L00010	35	40	SR03	20	Dry	Rock	WHI17000128	3.61	0.0025	1.6	4.6	4.2	16	0.05	2.3	1.9	260	0.98	0.25	1.2	13.4
1600167	17L00010	40	45	SR03	20	Dry	Rock	WHI17000128	3.95	0.0025	1.4	5.6	4.4	23	0.05	1	2.2	394	1.04	0.25	1.8	12
1600173	17L00010	70	75	SR03	20	Dry	Rock	WHI17000128	3.23	0.0025	2.2	4.9	6.1	40	0.05	1.4	4.3	674	1.74	0.25	0.25	9.8
1600174	17L00010	75	80	SR03	20	Dry	Rock	WHI17000128	3.49	0.0025	0.6	2.9	3.6	49	0.05	1.5	7.2	761	2.66	0.25	0.25	7.8
1600174	17L00010	75	80	SR03	20	Dry	DUP	WHI17000128		0.0025	0.8	2.5	3.5	53	0.05	1.9	7.2	748	2.7	0.25	0.25	7.6
1600175	17L00010	80	85	SR03	20	Dry	Rock	WHI17000128	3.5	0.0025	1	5.2	3.5	48	0.05	2.6	6.2	771	2.5	0.25	0.25	7.1
1600176	17L00010	85	90	SR03	20	Dry	Rock	WHI17000128	3.12	0.0025	1.5	3.8	4.4	55	0.05	2	6.4	869	2.48	0.25	0.25	8.6
1600177	17L00010	90	95	SR03	20	Dry	Rock	WHI17000128	2.94	0.0025	2.5	3.7	6.4	34	0.05	1.3	3.2	577	1.5	0.25	3	10.4
1600178	17L00010	95	100	SR03	20	Dry	Rock	WHI17000128	3.68	0.0025	0.9	3.7	3.1	23	0.05	2.3	2	307	0.99	0.25	0.9	14.1
1600179	17L00010	100	105	SR03	20	Dry	Rock	WHI17000128	3.35	0.0025	1.3	2.9	3.9	23	0.05	1	2.2	346	1.09	0.25	0.25	14
1600181	17L00010	105	110	SR03	20	Dry	Rock	WHI17000128	3.21	0.0025	1.3	2.7	3.8	27	0.05	1	1.9	409	1.02	0.25	0.25	13.9
1600182	17L00010	110	115	SR03	20	Dry	Rock	WHI17000128	3.2	0.0025	1.3	1.7	5.5	117	0.05	2	2.1	588	1.71	0.25	0.25	17.1

Appendix II

sample	sr_pi	cd_ppr	sbbpm	bippm	vppm	capct	p_pct	la_cr	mg_pct	ba_pct	tipct	bppal	al_pct	na_pct	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga	seppm	teppr	
1600138	61	0.05	0.05	0.05	10	1.46	0.027	22	6	0.12	72	0.003	10	0.43	0.05	0.15	0.5	0.005	1.8	0.05	0.025	2	0.25	0.1
1600139	74	0.05	0.1	0.05	14	1.61	0.031	23	9	0.19	43	0.004	10	0.49	0.041	0.14	0.6	0.005	2.7	0.05	0.025	2	0.25	0.1
1600141	46	0.05	0.05	0.05	6	1.15	0.017	25	6	0.08	31	0.003	10	0.37	0.035	0.16	0.5	0.005	1.7	0.05	0.025	1	0.25	0.1
1600142																								
1600142	47	0.05	0.05	0.05	5	1.76	0.013	25	5	0.06	60	0.002	10	0.37	0.029	0.15	0.4	0.005	1.5	0.05	0.025	1	0.25	0.1
1600143	27	0.05	0.05	0.05	7	0.8	0.018	25	8	0.12	57	0.005	10	0.58	0.033	0.15	0.3	0.005	1.8	0.05	0.025	2	0.25	0.1
1600144	19	0.05	0.1	0.05	7	0.66	0.016	28	7	0.15	36	0.003	10	0.44	0.041	0.13	0.6	0.005	2.1	0.05	0.025	2	0.25	0.1
1600145	27	0.05	0.1	0.05	11	1.01	0.023	22	5	0.12	72	0.004	10	0.49	0.048	0.17	0.3	0.005	1.7	0.05	0.025	2	0.25	0.1
1600146	43	0.05	0.05	0.05	7	1.4	0.021	26	8	0.1	57	0.006	10	0.46	0.032	0.17	0.4	0.005	1.7	0.05	0.025	2	0.25	0.1
1600147	54	0.05	0.1	0.05	8	1.84	0.025	23	7	0.08	58	0.003	10	0.43	0.038	0.19	0.4	0.01	1.5	0.05	0.025	2	0.25	0.1
1600148	52	0.05	0.05	0.05	6	1.85	0.018	26	6	0.06	74	0.002	10	0.33	0.025	0.18	0.4	0.005	1.6	0.05	0.025	1	0.25	0.1
1600149	41	0.05	0.05	0.05	6	1.55	0.018	25	8	0.06	179	0.002	10	0.41	0.043	0.19	0.3	0.005	1.4	0.05	0.025	1	0.25	0.1
1600150	51	0.05	0.05	0.05	6	2.08	0.017	23	5	0.06	402	5E-04	10	0.33	0.027	0.17	0.3	0.005	1	0.05	0.025	1	0.25	0.1
1600151	60	0.05	0.1	0.05	8	2.89	0.018	25	5	0.08	286	0.001	10	0.43	0.02	0.14	0.4	0.005	1.6	0.05	0.025	1	0.25	0.1
1600152	76	0.05	0.1	0.05	7	2.56	0.015	25	8	0.06	187	0.001	10	0.34	0.022	0.12	0.4	0.005	2	0.05	0.025	1	0.25	0.1
1600153	166	0.05	0.05	0.05	5	5.22	0.012	24	5	0.08	101	0.002	10	0.33	0.021	0.11	0.3	0.005	1.6	0.05	0.025	1	0.25	0.1
1600154	85	0.05	0.05	0.05	7	2.46	0.017	30	5	0.09	101	0.006	10	0.38	0.026	0.13	0.4	0.005	2.1	0.05	0.025	2	0.25	0.1
1600155	65	0.05	0.05	0.05	10	2.16	0.018	26	9	0.1	69	0.008	10	0.51	0.024	0.14	0.3	0.005	2.2	0.05	0.025	2	0.25	0.1
1600156	69	0.1	0.1	0.05	19	2.6	0.033	20	9	0.14	68	0.013	10	0.54	0.019	0.17	0.4	0.01	3.5	0.05	0.025	3	0.25	0.1
1600157	47	0.05	0.05	0.05	17	1.31	0.026	26	14	0.2	74	0.036	10	0.71	0.04	0.3	1	0.005	3.5	0.1	0.025	4	0.25	0.1
1600100	85	0.2	1.7	0.1	64	1.77	0.036	9	104	1.4	128	0.109	10	2.7	0.31	0.21	0.9	0.03	3.3	0.05	0.1	6	0.25	0.1
1600120	41	0.1	0.3	0.05	57	0.78	0.06	4	30	0.73	94	0.132	10	1.49	0.073	0.13	12.2	0.005	4.8	0.05	0.025	5	0.25	0.1
1600140	78	0.2	4.4	0.5	107	0.96	0.06	8	19	0.88	135	0.152	10	1.79	0.187	0.23	5.2	0.17	3.6	0.05	0.025	5	0.25	0.1
1600158	8	0.05	0.2	0.05	12	0.13	0.019	25	6	0.21	61	0.042	10	0.63	0.03	0.28	0.8	0.005	2.1	0.1	0.025	3	0.25	0.1
1600159	20	0.05	0.05	0.05	11	0.37	0.016	17	5	0.23	70	0.038	10	0.62	0.051	0.27	1.3	0.005	1.9	0.1	0.025	3	0.25	0.1
1600161	19	0.05	0.05	0.05	9	0.77	0.016	25	3	0.17	54	0.035	10	0.5	0.04	0.26	1.1	0.005	1.8	0.1	0.025	2	0.25	0.1
1600162	29	0.05	0.05	0.05	9	0.88	0.019	30	7	0.16	84	0.039	10	0.68	0.042	0.31	0.8	0.005	2.3	0.1	0.025	3	0.25	0.1
1600163	30	0.05	0.05	0.05	10	1.16	0.023	27	2	0.17	82	0.035	10	0.68	0.026	0.3	0.6	0.005	2.2	0.1	0.025	3	0.25	0.1
1600164	14	0.05	0.1	0.05	9	0.74	0.023	26	6	0.12	63	0.02	10	0.63	0.028	0.26	0.5	0.005	1.9	0.1	0.025	2	0.25	0.1
1600165	16	0.05	0.05	0.05	4	1.19	0.013	26	2	0.05	48	0.003	10	0.38	0.019	0.17	0.6	0.005	0.9	0.05	0.025	1	0.25	0.1
1600165	16	0.05	0.05	0.05	4	1.25	0.013	27	2	0.06	49	0.003	10	0.4	0.02	0.18	0.5	0.005	1	0.05	0.025	1	0.25	0.1
1600166	13	0.05	0.05	0.05	5	0.46	0.014	29	5	0.06	60	0.013	10	0.5	0.031	0.2	0.5	0.005	1.4	0.05	0.025	2	0.25	0.1
1600167	28	0.05	0.05	0.05	9	0.72	0.021	25	2	0.14	86	0.028	10	0.57	0.021	0.24	0.8	0.005	1.8	0.05	0.025	2	0.25	0.1
1600173	92	0.05	0.2	0.05	21	2.55	0.03	26	3	0.26	150	0.056	10	0.89	0.023	0.4	0.4	0.005	3.1	0.1	0.025	3	0.25	0.1
1600174	97	0.05	0.05	0.05	43	1.38	0.079	30	3	0.61	189	0.172	10	1.64	0.03	0.93	0.3	0.005	4.8	0.3	0.025	6	0.25	0.1
1600174	98	0.05	0.05	0.05	43	1.4	0.078	30	3	0.61	182	0.165	10	1.63	0.028	0.94	0.4	0.005	4.6	0.3	0.025	7	0.25	0.1
1600175	81	0.05	0.05	0.05	37	1.73	0.064	29	6	0.53	163	0.144	10	1.29	0.045	0.81	0.5	0.005	4.5	0.3	0.025	6	0.25	0.1
1600176	75	0.1	0.05	0.05	34	2.57	0.064	34	4	0.51	190	0.146	10	1.51	0.027	0.82	0.3	0.005	5.6	0.3	0.025	6	0.25	0.1
1600177	93	0.05	0.05	0.05	11	4.57	0.019	27	3	0.13	103	0.017	10	0.51	0.019	0.21	0.3	0.005	2	0.05	0.025	2	0.25	0.1
1600178	40	0.05	0.05	0.05	9	1.2	0.015	26	6	0.15	51	0.035	10	0.65	0.028	0.29	0.6	0.005	1.8	0.1	0.025	3	0.25	0.1
1600179	40	0.05	0.05	0.05	9	1.59	0.015	30	3	0.15	62	0.035	10	0.63	0.014	0.27	0.7	0.005	2.2	0.1	0.025	3	0.25	0.1
1600181	44	0.05	0.05	0.05	8	1.64	0.013	27	3	0.15	59	0.031	10	0.67	0.019	0.25	0.8	0.005	2.2	0.05	0.025	3	0.25	0.1
1600182	37	0.1	0.1	0.4	14	1.39	0.018	34	5	0.28	62	0.039	10	0.9	0.025	0.35	0.4	0.005	2.6	0.2	0.025	4	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pc	as_pp	au_ppl	th_pp	
1600183	17L00010	115	120	SR03	20	Dry	Rock	WHI17000128	3.06	0.0025	0.9	4.7	4.3	47	0.05	1	2	412	1.11	0.25	0.25	15.3	
1600184	17L00010	120	125	SR03	20	Dry	Rock	WHI17000128	3.21	0.0025	1	8.3	3	28	0.05	1.1	2.4	258	1.17	0.25	3.1	15.6	
1600185	17L00010	125	130	SR03	20	Dry	Rock	WHI17000128	3.63	0.0025	1.2	5.4	2.3	25	0.05	2.4	2.4	290	1.26	0.25	0.25	14.6	
1600186	17L00010	130	135	SR03	20	Dry	Rock	WHI17000128	3.25	0.0025	1.4	5.9	3.9	32	0.05	1.2	2.5	392	1.18	0.8	0.25	12.6	
1600187	17L00010	135	140	SR03	20	Dry	Rock	WHI17000128	3.1	0.0025	1.4	3.5	2.1	21	0.05	3	1.8	266	0.98	0.25	0.25	15.4	
1600188	17L00010	140	145	SR03	20	Dry	Rock	WHI17000128	3.4	0.0025	1.8	4.1	1.9	36	0.05	2.6	3.9	470	1.67	0.25	0.25	14.5	
1600189	17L00010	145	150	SR03	20	Dry	Rock	WHI17000128	3.83	0.0025	1.3	9.6	2	62	0.05	1.4	11.7	1132	3.64	0.25	0.25	4.4	
1600190	17L00010	150	155	SR03	11	Dry	Rock	WHI17000128	1.7	0.0025	0.9	8.3	1.9	66	0.05	2.3	12.1	1122	3.89	0.25	0.25	5.1	
1600191	17L00010	155	160	SR03	22	Dry	REP	WHI17000129	3.75	0.0025	1.3	10.9	1.8	64	0.05	3.6	11.5	997	3.52	0.25	0.25	3.8	
1600191	17L00010	155	160	SR03	22	Dry	Rock	WHI17000129			1.1	11.6	1.7	62	0.05	3.5	12.1	960	3.53	0.25	0.8	4	
1600192	17L00010	160	165	SR03	20	Dry	Rock	WHI17000129	3.41	0.0025	1.2	7.2	1.5	57	0.05	1.9	12.4	902	3.48	0.25	0.25	3.8	
1600193	17L00010	165	170	SR03	20	Dry	Rock	WHI17000129	3.42	0.0025	1.2	13.2	2	65	0.05	2.5	11.4	997	4.19	0.25	0.25	4.4	
1600194	17L00010	170	175	SR03	20	Dry	Rock	WHI17000129	3.99	0.0025	1.3	6.9	1.9	39	0.05	4.7	6.1	717	2.14	0.5	0.7	8.2	
1600195	17L00010	175	180	SR03	20	Dry	Rock	WHI17000129	3.68	0.012	1.2	5.8	2.8	42	0.05	1.7	5.5	640	2.17	0.6	7.3	7	
1600196	17L00010	180	185	SR03	20	Dry	Rock	WHI17000129	3.54	0.0025	2.1	7.4	2.3	37	0.05	1.7	4.4	518	1.91	0.6	0.25	8.9	
1600197	17L00010	185	190	SR03	20	Dry	Rock	WHI17000129	3.48	0.0025	1.3	5.3	2.8	44	0.05	4.2	6.3	584	2.08	0.25	0.25	8	
1600198	17L00010	190	195	SR03	20	Dry	Rock	WHI17000129	3.91	0.0025	1.7	4.6	2.7	38	0.05	1.9	4.5	564	1.88	0.5	0.25	10.5	
1600199	17L00010	195	200	SR03	20	Dry	Rock	WHI17000129	3.45	0.0025	1.9	4.1	2.6	40	0.05	1.5	5	564	1.96	0.5	0.25	9.8	
1600201	17L00010	200	205	SR03	20	Dry	Rock	WHI17000129	3.94	0.0025	1.2	8.8	2.9	45	0.05	2.8	5.4	555	2	1	0.25	9.8	
1600202	17L00010	205	210	SR03	20	Dry	Rock	WHI17000129	3.82	0.0025	1.3	22.9	3.5	41	0.05	1.5	4.3	525	1.81	0.25	0.25	10.4	
1600203	17L00010	210	215	SR03	20	Dry	Rock	WHI17000129	3.97	0.0025	1.2	7.2	4.1	38	0.05	1.2	4.2	568	1.84	0.25	0.25	9	
1600204	17L00010	215	220	SR03	20	Dry	Rock	WHI17000129	3.6	0.0025	1.4	10.2	2.8	39	0.05	1.7	4.2	488	1.73	0.25	2.1	8.9	
1600205	17L00010	220	225	SR03	20	Dry	Rock	WHI17000129	3.65	0.006	1.4	6.3	2.9	44	0.05	1.7	4.4	479	1.81	0.5	1.7	10.2	
1600206	17L00010	225	230	SR03	20	Dry	Rock	WHI17000129	3.6	0.0025	1.1	3.8	2.6	34	0.05	1.4	3.9	383	1.61	0.25	1.7	7.8	
1600207	17L00010	230	235	SR03	20	Dry	Rock	WHI17000129	4.14	0.0025	1.4	13.9	2.8	36	0.05	1.7	3.8	390	1.54	0.25	0.8	7.9	
1600208	17L00010	235	240	SR03	20	Dry	Rock	WHI17000129	4.14	0.0025	1.1	15.6	3.3	42	0.05	1.6	4.5	546	1.86	0.25	1.6	9.9	
1600209	17L00010	240	245	SR03	20	Dry	Rock	WHI17000129	3.99	0.0025	1.4	8.2	3.7	41	0.05	1.6	4.9	593	1.91	0.25	0.8	9.4	
1600210	17L00010	245	250	SR03	20	Dry	Rock	WHI17000129	3.37	0.0025	1.4	4	2.7	43	0.05	1.7	4.6	488	1.86	0.9	0.25	10.5	
1600211	17L00010	250	255	SR03	20	Dry	Rock	WHI17000129	4.96	0.0025	1.7	5.9	2.1	48	0.05	2	4.7	474	1.91	0.25	0.8	9.2	
1600212	17L00010	255	260	SR03	20	Dry	Rock	WHI17000129	3.74	0.0025	1.8	5.8	3	46	0.05	2.7	4.9	533	1.89	0.8	2	9.6	
1600213	17L00010	260	265	SR03	20	Dry	Rock	WHI17000129		0.0025													
1600213	17L00010	260	265	SR03	20	Dry	REP	WHI17000129	4.16	0.0025	1.5	7.4	3	41	0.05	2.1	4.5	510	1.81	0.9	0.25	8.5	
1600214	17L00010	265	270	SR03	20	Dry	Rock	WHI17000129	4.27	0.0025	1.8	8.4	2.7	43	0.05	2.4	4.8	494	1.82	0.25	0.25	10.4	
1600215	17L00010	270	275	SR03	20	Dry	Rock	WHI17000129	4.13	0.0025	1.3	7.3	2.8	41	0.05	2.6	5	554	1.87	0.25	0.25	9	
1600216	17L00010	275	280	SR03	20	Dry	Rock	WHI17000129	3.88	0.0025	1.9	8.6	3	46	0.05	2.1	5.3	579	1.93	0.25	0.25	7.4	
1600217	17L00010	280	285	SR03	20	Dry	Rock	WHI17000129	4.08	0.0025	2	8.3	2	48	0.05	2.3	4.6	509	1.9	0.25	0.25	9.9	
1600218	17L00010	285	290	SR03	20	Dry	Rock	WHI17000129	4.47	0.0025	1.9	7.5	2.6	48	0.05	2.3	5	498	1.91	0.25	0.25	10.4	
1600219	17L00010	290	295	SR03	20	Dry	Rock	WHI17000129	4.44	0.0025	2.4	3.4	2.7	44	0.05	2.3	4.1	410	1.57	0.25	0.25	7.2	
1600219	17L00010	290	295	SR03	20	Dry	DUP	WHI17000129		0.0025	2.5	6	2.9	47	0.05	2.2	4	418	1.63	0.25	0.25	8	
1600221	17L00010	295	300	SR03	20	Dry	Rock	WHI17000129	3.92	0.0025	3	3.7	2	47	0.05	2.4	4.5	427	1.8	0.25	0.25	9.6	
1600222	17L00010	300	305	SR03	20	Dry	Rock	WHI17000129	3.71	0.0025	2.8	10.2	2.7	48	0.05	2.4	4.6	444	1.91	0.25	0.25	10.5	
1600223	17L00010	305	310	SR03	20	Dry	Rock	WHI17000129	3.29	0.0025	3.5	8.6	2.6	48	0.05	2.4	4.8	491	2.03	0.25	0.25	10.3	
1600224	17L00010	310	315	SR03	20	Dry	Rock	WHI17000129			2.6	6.5	2.6	40	0.05	2.1	4.1	489	1.82	0.25	0.25	9.7	

Appendix II

sample	sr_pct	cd_ppm	sbbpm	bipm	vppm	capct	p_pct	la_cr	mg_pct	ba_pct	tipct	bppal_pct	na_pct	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga	seppm	teppr		
1600183	50	0.1	0.05	0.05	8	1.17	0.014	33	4	0.16	51	0.039	10	0.77	0.025	0.29	0.6	0.005	2.6	0.05	0.025	3	0.25	0.1
1600184	17	0.05	0.05	0.05	9	0.41	0.015	30	4	0.16	52	0.039	10	0.62	0.04	0.29	0.7	0.005	2.3	0.1	0.025	3	0.25	0.1
1600185	18	0.05	0.05	0.05	10	0.52	0.016	31	7	0.17	55	0.048	10	0.74	0.041	0.34	0.7	0.005	2.4	0.1	0.025	3	0.25	0.1
1600186	31	0.05	0.05	0.05	9	1.6	0.016	29	4	0.14	75	0.024	10	0.55	0.025	0.22	0.6	0.005	2	0.05	0.025	3	0.25	0.1
1600187	13	0.05	0.05	0.05	8	0.42	0.012	26	7	0.15	50	0.037	10	0.57	0.038	0.27	0.8	0.005	1.9	0.05	0.025	3	0.25	0.1
1600188	20	0.05	0.05	0.05	19	0.56	0.022	28	9	0.42	101	0.078	10	0.9	0.042	0.5	1.2	0.005	3.1	0.2	0.025	4	0.25	0.1
1600189	102	0.05	0.05	0.05	75	1.99	0.063	16	5	1.15	469	0.197	10	1.84	0.05	1.07	0.4	0.005	9.2	0.2	0.025	7	0.25	0.1
1600190	67	0.05	0.05	0.05	80	1.29	0.058	14	5	1.29	492	0.221	10	2.22	0.045	1.28	0.3	0.005	9.6	0.2	0.025	9	0.25	0.1
1600191	64	0.05	0.05	0.05	74	1.26	0.061	12	14	1.2	498	0.216	10	1.84	0.049	1.18	0.5	0.005	6.5	0.2	0.025	7	0.25	0.1
1600191	62	0.05	0.05	0.05	74	1.26	0.069	12	13	1.2	501	0.22	10	1.86	0.049	1.19	0.5	0.005	6.5	0.2	0.025	7	0.25	0.1
1600192	69	0.05	0.05	0.05	70	1.29	0.061	13	7	1.2	487	0.225	10	1.81	0.056	1.18	0.5	0.005	6.5	0.3	0.025	7	0.25	0.1
1600193	73	0.05	0.05	0.05	75	1.88	0.061	16	9	1.15	294	0.187	10	1.8	0.038	1.08	0.3	0.005	10.7	0.2	0.025	7	0.25	0.1
1600194	49	0.05	0.05	0.05	40	1.63	0.039	21	13	0.58	211	0.129	10	1.14	0.041	0.68	0.7	0.005	5	0.2	0.025	5	0.25	0.1
1600195	69	0.05	0.05	0.05	28	2.46	0.036	23	6	0.4	146	0.067	10	0.85	0.035	0.4	0.5	0.005	5.5	0.1	0.025	4	0.25	0.1
1600196	58	0.05	0.05	0.05	22	1.22	0.032	29	8	0.32	88	0.056	10	0.71	0.044	0.3	0.5	0.005	4.3	0.05	0.025	4	0.25	0.1
1600197	59	0.05	0.05	0.05	31	1.72	0.053	23	12	0.56	108	0.058	10	1	0.043	0.37	0.5	0.005	4.7	0.1	0.025	5	0.25	0.1
1600198	74	0.05	0.05	0.05	22	1.85	0.034	29	8	0.34	101	0.084	10	0.88	0.05	0.42	0.6	0.005	4.5	0.1	0.025	4	0.25	0.1
1600199	67	0.05	0.05	0.05	24	1.63	0.033	30	8	0.34	96	0.087	10	0.84	0.038	0.45	0.6	0.005	4.7	0.1	0.025	4	0.25	0.1
1600201	48	0.05	0.1	0.05	27	1.45	0.045	29	8	0.4	100	0.057	10	0.93	0.039	0.34	0.4	0.01	4.6	0.05	0.025	5	0.25	0.1
1600202	93	0.05	0.05	0.5	22	2.04	0.03	31	7	0.4	104	0.09	10	0.87	0.041	0.43	0.6	0.005	4.9	0.1	0.025	4	0.25	0.1
1600203	101	0.05	0.05	0.2	22	2.85	0.033	26	8	0.37	99	0.07	10	0.74	0.033	0.35	0.6	0.005	4.6	0.1	0.025	4	0.25	0.1
1600204	52	0.05	0.05	0.2	22	1.45	0.036	25	7	0.28	91	0.063	10	0.82	0.055	0.35	0.5	0.005	4.4	0.1	0.025	4	0.25	0.1
1600205	56	0.05	0.4	0.05	20	1.68	0.035	29	7	0.31	75	0.069	10	0.82	0.044	0.36	0.6	0.005	4.6	0.1	0.025	4	0.25	0.1
1600206	41	0.05	0.05	0.05	19	1.2	0.032	22	7	0.28	76	0.064	10	0.8	0.034	0.36	0.4	0.005	4.1	0.1	0.025	4	0.25	0.1
1600207	46	0.05	0.05	0.3	17	1.13	0.028	22	7	0.25	74	0.057	10	0.88	0.039	0.33	0.3	0.005	3.8	0.1	0.025	4	0.25	0.1
1600208	65	0.05	0.05	0.3	21	1.66	0.033	28	6	0.34	79	0.088	10	1.02	0.038	0.46	0.4	0.005	4.8	0.1	0.025	5	0.25	0.1
1600209	87	0.05	0.05	0.05	22	2.06	0.032	27	8	0.34	77	0.095	10	0.88	0.035	0.47	0.4	0.005	4.7	0.1	0.025	4	0.25	0.1
1600210	51	0.05	0.1	0.05	23	1.24	0.032	27	7	0.31	80	0.091	10	0.87	0.049	0.47	0.6	0.005	4.6	0.1	0.025	4	0.25	0.1
1600211	35	0.05	0.05	0.05	23	0.86	0.032	26	10	0.38	89	0.086	10	0.94	0.055	0.45	0.6	0.005	4.3	0.1	0.025	5	0.25	0.1
1600212	58	0.05	0.05	0.05	22	1.53	0.035	26	12	0.37	92	0.086	10	0.89	0.045	0.45	0.6	0.005	4.1	0.2	0.025	4	0.25	0.1
1600213																								
1600213	67	0.05	0.05	0.05	22	1.81	0.035	25	9	0.33	79	0.07	10	0.9	0.049	0.41	0.4	0.005	4.2	0.1	0.025	4	0.25	0.1
1600214	60	0.05	0.05	0.05	21	1.5	0.033	28	9	0.36	99	0.082	10	0.9	0.054	0.45	0.6	0.005	3.8	0.2	0.025	4	0.25	0.1
1600215	79	0.05	0.05	0.05	24	1.92	0.037	25	11	0.41	74	0.055	10	0.88	0.036	0.34	0.4	0.005	3.4	0.1	0.025	4	0.25	0.1
1600216	89	0.05	0.05	0.1	26	1.93	0.038	25	10	0.44	90	0.077	10	0.99	0.047	0.43	0.6	0.005	3.4	0.1	0.025	5	0.25	0.1
1600217	43	0.05	0.05	0.05	27	0.79	0.035	25	10	0.44	122	0.112	10	1	0.055	0.55	1	0.005	3.1	0.2	0.025	5	0.25	0.1
1600218	52	0.05	0.05	0.05	24	1.08	0.033	28	11	0.41	101	0.105	10	0.95	0.052	0.53	0.8	0.005	3.6	0.2	0.025	4	0.25	0.1
1600219	57	0.05	0.05	0.05	19	1.21	0.027	20	11	0.31	97	0.08	10	0.82	0.059	0.41	1	0.005	2.9	0.1	0.025	4	0.25	0.1
1600219	56	0.05	0.05	0.05	19	1.22	0.028	21	12	0.32	96	0.085	10	0.85	0.06	0.43	0.9	0.005	3.1	0.1	0.025	4	0.25	0.1
1600221	45	0.05	0.05	0.05	21	0.88	0.029	25	12	0.41	103	0.1	10	0.99	0.052	0.52	0.7	0.01	3.6	0.1	0.025	5	0.25	0.1
1600222	47	0.05	0.05	0.05	23	0.91	0.029	27	13	0.39	110	0.106	10	0.96	0.058	0.52	0.8	0.005	3.9	0.2	0.025	5	0.25	0.1
1600223	48	0.05	0.05	0.05	25	0.86	0.033	29	14	0.42	111	0.117	10	0.94	0.049	0.56	1.2	0.005	3.5	0.2	0.025	4	0.25	0.1
1600224	48	0.05	0.05	0.05	23	0.82	0.027	24	11	0.36	107	0.101	10	0.92	0.06	0.5	0.8	0.005	3.3	0.2	0.025	4	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pc	as_pp	au_ppl	th_pp
1600224	17L00010	310	315	SR03	20	Dry	REP	WHI17000129	3.84	0.0025	2.8	6.9	2.8	43	0.05	2.2	4.3	494	1.89	0.25	2	10.3
1600225	17L00010	315	320	SR03	20	Dry	Rock	WHI17000129	3.68	0.0025	4.3	9.3	6.3	51	0.05	2.5	4.4	521	1.89	0.25	0.25	8
1600226	17L00010	320	325	SR03	20	Dry	Rock	WHI17000129	3.45	0.0025	6.7	14	8.8	53	0.1	1.9	4.3	495	1.77	0.25	0.9	9.6
1600227	17L00010	325	330	SR03	20	Dry	Rock	WHI17000129	3.65	0.0025	5.6	16.2	8.7	60	0.1	2.4	4.5	488	1.94	0.25	1	9.6
1600160	17L00010			SR03			CDN-GS-P4F	WHI17000128	0.09	0.53	6.3	288	15.2	50	0.6	109.3	15.3	434	2.83	173.3	464	3.4
1600180	17L00010			SR03			CDN-BL-10	WHI17000128	0.13	0.0025	2.4	25	2.4	43	0.2	23.2	10.2	390	2.42	4.6	3.8	0.9
1600200	17L00010			SR03			CDN-GS-5U	WHI17000129	0.09	5.088	7.7	199	21.9	77	1	15.2	12	568	4.08	12	5699	2.8
1600220	17L00010			SR03			CDN-BL-10	WHI17000129	0.15	0.0025	2.3	26	2.2	41	0.3	23.3	9.9	387	2.28	4.7	0.25	0.9
1600228	17L00011	0	5	SR03	15	Dry	Rock	WHI17000129	3.17	0.0025	1.7	7.2	2.4	42	0.05	4.9	4.5	486	1.92	1	3	11.3
1600229	17L00011	5	10	SR03	20	Dry	Rock	WHI17000129	5.17	0.0025	1.4	7	3.7	49	0.05	3	5	621	1.99	1	0.8	10.2
1600230	17L00011	10	15	SR03	20	Dry	Rock	WHI17000129	5.14	0.0025	1.4	3.4	4.2	56	0.05	2.5	4.2	626	1.83	0.25	1.2	12
1600231	17L00011	15	20	SR03	18	Dry	Rock	WHI17000129	3.56	0.0025	1.1	4.1	2.6	33	0.05	2.4	3.2	411	1.44	0.25	0.25	11.3
1600232	17L00011	20	25	SR03	20	Dry	Rock	WHI17000129	3.91	0.0025	1.3	5.7	2.8	40	0.05	2	3.5	462	1.52	0.25	1.1	13.2
1600233	17L00011	25	30	SR03	20	Dry	Rock	WHI17000129	4.64	0.0025	0.8	11.2	2.6	30	0.05	1.9	2.3	309	1.05	0.25	1.3	13.1
1600234	17L00011	30	35	SR03	20	Dry	Rock	WHI17000129	3.17	0.0025	1.1	3.7	2.5	37	0.05	1.6	2.1	313	1.15	0.25	0.25	15
1600235	17L00011	35	40	SR03	20	Dry	Rock	WHI17000129	4.11	0.0025	0.7	4.6	3	49	0.05	1.6	2.3	297	1.19	0.25	1.2	15.4
1600236	17L00011	40	45	SR03	20	Dry	Rock	WHI17000129	3.48	0.0025	1.2	3.9	2.8	31	0.05	1.7	2.2	342	1.16	0.25	0.6	15.9
1600237	17L00011	45	50	SR03	20	Dry	Rock	WHI17000129	3.75	0.0025	0.8	5	2.3	31	0.05	1.4	1.9	204	0.95	0.25	0.7	18.1
1600238	17L00011	50	55	SR03	20	Dry	Rock	WHI17000129	2.99	0.0025	1.4	3.6	4.3	32	0.05	1.5	2.9	455	1.33	0.25	2.4	13.4
1600239	17L00011	55	60	SR03	20	Dry	Rock	WHI17000129	2.94	0.0025	1.6	5	4.3	58	0.05	2	9.2	883	2.77	0.7	1.7	9.1
1600241	17L00011	60	65	SR03	20	Dry	Rock	WHI17000129	2.8	0.0025	1.1	7.2	2.3	59	0.05	1.6	11.3	1079	3.51	0.25	1.4	5.3
1600242	17L00011	65	70	SR03	20	Dry	Rock	WHI17000129	3.56	0.0025	0.9	8.2	1.4	71	0.05	1.8	13	1046	3.68	0.25	0.6	3.7
1600243	17L00011	70	75	SR03	20	Dry	Rock	WHI17000129	3.47	0.0025	0.9	6.5	1.7	67	0.05	1.7	13.1	1066	3.81	0.25	0.25	3.8
1600244	17L00011	75	80	SR03	20	Dry	Rock	WHI17000129	3.65	0.0025	1.1	6.5	2.4	66	0.05	2.5	14.1	1313	3.82	0.25	0.25	4.6
1600245	17L00011	80	85	SR03	20	Dry	Rock	WHI17000129	3.82	0.0025	0.9	8.3	1.4	66	0.05	2.9	14.2	1013	3.68	0.25	0.7	3.7
1600246	17L00011	85	90	SR03	20	Dry	Rock	WHI17000129	4.77	0.0025	1.1	10.3	2.3	62	0.05	2.2	13.1	925	3.37	0.25	0.25	4.7
1600247	17L00011	90	95	SR03	20	Dry	Rock	WHI17000129	4.14	0.0025	1.1	4.3	2.2	66	0.05	2.7	9.7	934	3.33	0.25	0.25	4.2
1600248	17L00011	95	100	SR03	20	Dry	REP	WHI17000129		0.0025												
1600248	17L00011	95	100	SR03	20	Dry	Rock	WHI17000129	4.26	0.0025	0.9	8.2	1.9	74	0.05	1.7	13	986	3.62	0.25	1	3.8
1600249	17L00011	100	105	SR03	20	Dry	Rock	WHI17000129	4.11	0.013	1.2	6.8	2.9	59	0.05	1.8	10.4	882	3.21	0.25	3	5.6
1600250	17L00011	105	110	SR03	20	Dry	Rock	WHI17000129	3.6	0.0025	1.2	10.8	2.3	67	0.05	3.1	12.8	1059	3.48	0.6	0.25	4.6
1540001	17L00011	110	115	SR03	20	Dry	Rock	WHI17000127	3.34	0.0025	1.8	9.2	2.8	66	0.05	2	12.5	1102	3.79	0.25	0.25	5
1540002	17L00011	115	120	SR03	20	Dry	Rock	WHI17000127	3.66	0.0025	1.9	7.8	2	39	0.05	2	4.5	597	1.7	0.25	0.25	11.5
1540003	17L00011	120	125	SR03	20	Dry	Rock	WHI17000127	4.42	0.0025	1.3	3.2	1.9	44	0.05	2	4.9	511	1.94	0.25	0.6	9.4
1540004	17L00011	125	130	SR03	20	Dry	Rock	WHI17000127	3.81	0.0025	1.3	3.5	3.1	48	0.05	2	4.9	526	1.98	0.6	0.25	9
1540005	17L00011	130	135	SR03	20	Dry	Rock	WHI17000127	3.34	0.0025	1.2	3.2	2.8	39	0.05	1.9	4.4	501	1.78	0.25	0.25	11
1540006	17L00011	135	140	SR03	20	Dry	Rock	WHI17000127	3.73	0.0025	1.1	2.8	3.2	41	0.05	1.8	5.3	552	2	0.25	1.4	9.6
1540007	17L00011	140	145	SR03	20	Dry	REP	WHI17000127	3.22	0.006	1.4	10.2	3.9	52	0.05	6.2	8.9	702	2.42	0.25	0.25	9.2
1540007	17L00011	140	145	SR03	20	Dry	Rock	WHI17000127			1.3	11	4.2	51	0.05	5.8	9	691	2.46	0.25	0.25	9.1
1540008	17L00011	145	150	SR03	20	Dry	Rock	WHI17000127	3.3	0.0025	1.4	2	2.5	41	0.05	2.5	5.3	511	2	0.25	0.25	10.7
1540009	17L00011	150	155	SR03	20	Dry	Rock	WHI17000127	3.82	0.0025	1.3	1.6	1.8	43	0.05	2.1	5.5	551	2.05	0.25	0.25	9.6
1540010	17L00011	155	160	SR03	20	Dry	Rock	WHI17000127	3.27	0.0025	1.3	4.7	1.2	34	0.05	2.9	5.8	440	2.15	0.25	0.25	9.2
1540011	17L00011	160	165	SR03	20	Dry	Rock	WHI17000127	3.73	0.0025	1.9	2.8	1.4	35	0.05	1.7	5.3	497	2.38	0.25	0.25	9.2

Appendix II

sample	sr_pi	cd_ppr	sbppm	bippm	vppm	capct	p_pct	la_cr	mg_pct	ba_pct	tipct	bppal	al_pct	na_pct	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga	seppm	teppr	
1600224	50	0.05	0.05	0.05	24	0.87	0.032	26	11	0.38	117	0.107	10	0.95	0.063	0.52	0.8	0.005	3.6	0.2	0.025	5	0.25	0.1
1600225	53	0.2	0.05	0.2	24	1.12	0.029	23	13	0.38	105	0.1	10	0.96	0.057	0.5	0.9	0.005	3.3	0.2	0.025	5	0.25	0.1
1600226	52	0.3	0.05	0.3	20	1.13	0.03	27	11	0.36	83	0.076	10	0.9	0.045	0.43	0.7	0.005	3.3	0.2	0.025	4	0.25	0.1
1600227	56	0.1	0.05	0.5	24	0.96	0.031	29	11	0.41	101	0.093	10	1.05	0.045	0.49	0.9	0.005	3.6	0.2	0.025	5	0.25	0.1
1600160	73	0.3	1.8	0.1	63	1.69	0.032	9	106	1.38	122	0.094	10	2.57	0.297	0.21	0.9	0.03	3.1	0.05	0.11	5	0.25	0.1
1600180	40	0.3	0.3	0.05	57	0.79	0.062	4	31	0.77	95	0.124	10	1.48	0.074	0.13	12.3	0.01	5.2	0.05	0.025	5	0.25	0.1
1600200	72	0.2	3.9	0.5	100	0.89	0.062	7	20	0.86	134	0.151	10	1.71	0.182	0.23	5	0.15	3.7	0.05	0.025	5	0.25	0.1
1600220	39	0.2	0.3	0.05	55	0.76	0.064	4	31	0.75	97	0.126	10	1.48	0.074	0.12	11.9	0.02	4.6	0.05	0.025	4	0.25	0.1
1600228	12	0.05	0.05	0.05	26	0.18	0.031	36	10	0.38	104	0.091	10	1.03	0.046	0.45	0.6	0.005	3.6	0.1	0.025	4	0.25	0.1
1600229	38	0.1	0.05	0.05	26	1.16	0.045	27	8	0.32	115	0.101	10	0.93	0.043	0.52	0.7	0.005	3.4	0.2	0.025	4	0.25	0.1
1600230	44	0.1	0.05	0.05	21	1.57	0.033	28	5	0.3	95	0.096	10	0.91	0.044	0.5	0.9	0.005	3.3	0.2	0.025	4	0.25	0.1
1600231	26	0.05	0.05	0.05	15	0.68	0.022	23	4	0.23	71	0.056	10	0.69	0.048	0.35	0.7	0.005	2.7	0.1	0.025	3	0.25	0.1
1600232	22	0.05	0.05	0.05	14	1.06	0.024	28	5	0.21	67	0.053	10	0.63	0.038	0.32	0.5	0.005	2.6	0.1	0.025	3	0.25	0.1
1600233	16	0.05	0.05	0.05	9	0.8	0.016	27	4	0.11	62	0.029	10	0.57	0.043	0.25	0.5	0.005	1.8	0.05	0.025	3	0.25	0.1
1600234	18	0.05	0.05	0.05	10	0.53	0.014	29	6	0.14	55	0.04	10	0.51	0.065	0.26	1.4	0.005	2.2	0.05	0.025	2	0.25	0.1
1600235	14	0.3	0.05	0.05	9	0.47	0.015	30	6	0.13	51	0.044	10	0.57	0.044	0.26	1.1	0.005	2.3	0.1	0.025	3	0.25	0.1
1600236	16	0.05	0.05	0.05	8	0.63	0.015	30	5	0.12	58	0.036	10	0.57	0.048	0.25	1	0.005	1.8	0.05	0.025	3	0.25	0.1
1600237	11	0.05	0.05	0.05	7	0.39	0.014	27	4	0.11	46	0.035	10	0.56	0.044	0.25	0.9	0.005	1.7	0.05	0.025	2	0.25	0.1
1600238	32	0.05	0.05	0.05	8	2.06	0.013	29	5	0.09	61	0.015	10	0.41	0.025	0.16	0.8	0.005	1.6	0.05	0.025	2	0.25	0.1
1600239	33	0.05	0.05	0.05	48	2.02	0.046	22	4	0.63	240	0.111	10	1.38	0.028	0.59	0.4	0.005	7.5	0.2	0.025	5	0.25	0.1
1600241	47	0.05	0.05	0.05	74	1.4	0.061	18	4	1.04	406	0.209	10	1.79	0.049	0.98	0.5	0.005	10.9	0.2	0.025	7	0.25	0.1
1600242	58	0.05	0.05	0.05	77	1.41	0.068	12	6	1.28	492	0.244	10	1.98	0.05	1.22	0.4	0.005	7.7	0.2	0.025	8	0.25	0.1
1600243	71	0.05	0.05	0.05	87	1.97	0.064	14	3	1.21	455	0.194	10	1.98	0.048	1.02	0.3	0.005	9.3	0.2	0.025	8	0.25	0.1
1600244	102	0.05	0.05	0.05	86	2.77	0.066	17	8	1.31	505	0.214	10	2.08	0.046	1.18	0.4	0.005	8.7	0.2	0.025	8	0.25	0.1
1600245	49	0.05	0.05	0.05	81	1.07	0.062	12	8	1.36	556	0.252	10	2.11	0.055	1.36	0.4	0.005	5.4	0.3	0.025	7	0.25	0.1
1600246	78	0.05	0.05	0.05	76	1.75	0.054	16	6	1.15	477	0.194	10	1.92	0.052	1.11	0.3	0.01	6.1	0.3	0.025	7	0.25	0.1
1600247	72	0.05	0.05	0.05	80	1.43	0.053	15	6	1.17	429	0.206	10	1.89	0.071	1.14	0.4	0.005	7.5	0.2	0.025	8	0.25	0.1
1600248																								
1600248	52	0.05	0.05	0.05	95	1.2	0.067	13	8	1.35	541	0.206	10	2.01	0.052	1.22	0.4	0.005	7.3	0.2	0.025	8	0.25	0.1
1600249	63	0.05	0.1	0.05	62	1.65	0.06	18	6	0.97	380	0.183	10	1.74	0.049	1	0.5	0.005	7	0.2	0.025	8	0.25	0.1
1600250	70	0.05	0.05	0.05	79	1.63	0.059	17	9	1.19	404	0.202	10	1.88	0.06	1.14	0.4	0.005	9.2	0.2	0.025	8	0.25	0.1
1540001	55	0.05	0.05	0.05	88	2.06	0.064	19	5	1.07	377	0.207	10	1.85	0.033	1.2	0.3	0.005	12.7	0.2	0.025	7	0.25	0.1
1540002	37	0.05	0.05	0.05	20	1.32	0.03	30	6	0.34	114	0.079	10	0.81	0.035	0.45	0.8	0.005	3.4	0.2	0.025	4	0.25	0.1
1540003	28	0.05	0.05	0.05	27	0.82	0.035	30	7	0.4	134	0.118	10	1	0.055	0.59	0.9	0.005	4.8	0.2	0.025	5	0.25	0.1
1540004	37	0.05	0.05	0.05	28	1.15	0.038	27	7	0.42	119	0.105	10	0.95	0.045	0.55	0.8	0.005	3.9	0.2	0.025	5	0.25	0.1
1540005	35	0.05	0.05	0.05	20	1.08	0.028	30	7	0.32	95	0.083	10	0.77	0.041	0.43	0.8	0.005	4	0.1	0.025	5	0.25	0.1
1540006	44	0.05	0.05	0.05	24	1.13	0.034	26	7	0.41	108	0.112	10	0.88	0.044	0.54	1	0.005	5.1	0.1	0.025	5	0.25	0.1
1540007	55	0.05	0.05	0.1	46	2.06	0.045	26	28	0.78	145	0.134	10	1.33	0.029	0.81	0.8	0.005	7	0.3	0.025	6	0.25	0.1
1540007	57	0.05	0.05	0.1	47	2.1	0.049	27	28	0.8	147	0.138	10	1.36	0.03	0.83	0.7	0.005	7.5	0.3	0.025	6	0.25	0.1
1540008	26	0.05	0.05	0.05	26	0.5	0.035	32	9	0.43	115	0.135	10	0.93	0.055	0.63	1.6	0.005	4.5	0.1	0.025	5	0.25	0.1
1540009	33	0.05	0.05	0.05	28	0.69	0.032	28	7	0.47	113	0.131	10	0.98	0.049	0.63	1	0.005	4.7	0.1	0.025	5	0.25	0.1
1540010	31	0.05	0.05	0.05	28	1.24	0.034	26	9	0.54	122	0.111	10	1.01	0.035	0.61	0.6	0.005	5	0.1	0.025	5	0.25	0.1
1540011	35	0.05	0.05	0.05	27	1.73	0.028	28	8	0.59	117	0.13	10	1	0.05	0.7	0.8	0.005	5.1	0.1	0.025	5	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pc	as_pp	au_ppl	th_pp	
1540011	17L00011	160	165	SR03	20	Dry	DUP	WHI17000127		0.0025	2.1	3	1.5	35	0.05	1.8	5.2	526	2.45	0.25	0.25	9.8	
1540012	17L00011	165	170	SR03	20	Dry	Rock	WHI17000127	3.02	0.0025	1.6	3.7	2.6	42	0.05	1.6	4.8	655	2.28	0.25	0.25	8.9	
1540013	17L00011	170	175	SR03	20	Dry	Rock	WHI17000127	3	0.0025	1.5	8.8	1.8	37	0.05	1.8	4.6	554	2.15	0.25	0.25	10.3	
1540014	17L00011	175	180	SR03	20	Dry	Rock	WHI17000127	3.76	0.0025	1.3	3.8	2.6	39	0.05	1.7	4.4	514	1.89	0.25	0.25	11.1	
1540015	17L00011	180	185	SR03	20	Dry	Rock	WHI17000127	3.14	0.006	1.4	3.2	3.9	42	0.05	1.6	4.7	552	1.99	0.25	0.25	11.8	
1540016	17L00011	185	190	SR03	20	Dry	Rock	WHI17000127	2.9	0.0025	1.2	15.1	2.7	35	0.05	1.7	4.5	533	1.83	0.25	0.25	11.3	
1540017	17L00011	190	195	SR03	20	Dry	Rock	WHI17000127	3.61	0.006	1.7	57.5	2.7	37	0.1	1.9	3.8	496	1.68	0.25	1.8	11.4	
1540018	17L00011	195	200	SR03	20	Dry	Rock	WHI17000127	3.25	0.0025	1.5	5.6	2.9	41	0.05	1.8	4.2	542	1.83	0.25	0.25	10.1	
1540019	17L00011	200	205	SR03	20	Dry	Rock	WHI17000127	3.01	0.013	3.3	37.3	5.6	30	0.1	1.3	3.5	509	1.47	0.25	12	10.5	
1540021	17L00011	205	210	SR03	20	Dry	Rock	WHI17000127	3.09	0.006	10.8	19.3	6.1	32	0.05	1.4	4.4	484	1.68	2.6	0.5	9.6	
1540022	17L00011	210	215	SR03	20	Dry	Rock	WHI17000127	3.62	0.005	7.6	67.2	8.7	42	0.1	1.8	5.1	576	1.85	0.7	1.8	9.1	
1540023	17L00011	215	220	SR03	20	Dry	Rock	WHI17000127	3.1	0.0025	9	36	14.4	56	0.1	1.7	4.5	657	1.92	0.25	0.25	8.5	
1540024	17L00011	220	225	SR03	20	Dry	Rock	WHI17000127	3.49	0.0025	8.6	10.2	8.3	45	0.05	1.5	4.7	569	1.85	0.9	0.25	8.9	
1540025	17L00011	225	230	SR03	20	Dry	Rock	WHI17000127	3.1	0.0025	8	18.7	8.2	43	0.05	1.7	4.7	588	2.01	0.25	0.25	8.4	
1540026	17L00011	230	235	SR03	20	Dry	Rock	WHI17000127	3.59	0.0025	11.7	50	6.6	38	0.2	2	3.9	373	1.63	0.25	0.25	9	
1540027	17L00011	235	240	SR03	20	Dry	Rock	WHI17000127	3.38	0.0025	16.8	8.8	13.3	51	0.2	1.7	5.8	827	1.91	4	1	8.5	
1540028	17L00011	240	245	SR03	20	Dry	Rock	WHI17000127	3.29	0.0025	12	6.3	6.6	40	0.1	1.7	4.2	473	1.87	1.5	0.25	9.1	
1540029	17L00011	245	250	SR03	20	Dry	Rock	WHI17000127	3.67	0.0025	5.8	9.6	7.7	42	0.05	1.6	4.8	506	1.89	1.1	0.25	8.4	
1540030	17L00011	250	255	SR03	20	Dry	Rock	WHI17000127	3.21	0.0025	13	8.9	11	53	0.2	3.1	5.6	776	2.17	1.4	0.25	6.9	
1540031	17L00011	255	260	SR03	20	Dry	Rock	WHI17000127	3.78	0.0025	9.4	7.6	6.1	33	0.1	1.4	3.5	366	1.45	0.7	0.25	9.4	
1540032	17L00011	260	265	SR03	20	Dry	Rock	WHI17000127	3.01	0.0025	2.8	5.8	6.4	40	0.05	1.7	4.3	522	1.91	0.6	0.25	9.1	
1540033	17L00011	265	270	SR03	20	Dry	Rock	WHI17000127	2.61	0.0025	7.9	30	10.5	41	0.1	1.6	4.4	754	1.74	0.5	4.4	10.3	
1540034	17L00011	270	275	SR03	20	Dry	Rock	WHI17000127	2.87	0.0025	6.4	6.3	6	41	0.05	2.4	4.6	577	2.01	1.3	0.25	8.2	
1540035	17L00011	275	280	SR03	20	Dry	Rock	WHI17000127	3.29	0.0025	4	7.5	4.7	41	0.05	2.6	6	578	2.22	1.8	0.25	6.6	
1540036	17L00011	280	285	SR03	20	Dry	Rock	WHI17000127	3.64	0.0025	6.9	12.9	6.9	43	0.05	3.7	6.5	657	2.34	0.7	0.25	9.5	
1540037	17L00011	285	290	SR03	20	Dry	Rock	WHI17000127	3.12	0.0025	10.4	22.5	10.6	56	0.05	2.9	6.9	945	2.48	1.1	0.25	9.7	
1540038	17L00011	290	295	SR03	20	Dry	Rock	WHI17000127	3.07	0.0025	3.1	9.2	9.3	37	0.05	1.6	4.3	442	1.8	1.9	0.25	8.6	
1540039	17L00011	295	300	SR03	20	Dry	Rock	WHI17000127	3.83	0.0025	2.3	13.9	11.2	41	0.2	2	5.1	707	2.08	2.1	0.25	7.8	
1540041	17L00011	300	305	SR03	20	Dry	Rock	WHI17000127	3.39	0.0025	2.9	10.8	5.8	38	0.05	1.9	4.3	543	1.82	1.1	0.25	9.6	
1540042	17L00011	305	310	SR03	20	Dry	Rock	WHI17000127	3.18	0.0025	2.1	39.1	4.3	36	0.05	2.2	4.5	434	1.8	0.6	0.25	9.4	
1540043	17L00011	310	315	SR03	20	Dry	Rock	WHI17000127	2.86	0.0025	3.4	25.5	4.6	30	0.05	2	3.9	498	1.68	0.25	0.25	9.4	
1540044	17L00011	315	320	SR03	20	Dry	Rock	WHI17000127	3.65	0.0025	3.7	7.4	4.1	39	0.05	2.2	3.8	504	1.89	0.7	0.25	9.5	
1540045	17L00011	320	325	SR03	20	Dry	REP	WHI17000127		0.006	4.1	7.7	4	37	0.05	2.1	4.5	511	2.1	0.25	0.25	9.6	
1540045	17L00011	320	325	SR03	20	Dry	Rock	WHI17000127	2.74	0.0025	3.8	7.4	4.1	37	0.05	2	4.6	542	2.07	0.25	0.25	9.7	
1540045	17L00011	320	325	SR03	20	Dry	DUP	WHI17000127		0.016													
1540046	17L00011	325	330	SR03	20	Dry	Rock	WHI17000127	3.71	0.0025	5.1	5	3.5	39	0.05	2.2	4.8	496	1.97	0.25	0.25	9.1	
1540020	17L00011			SR03			CDN-GS-P4F	WHI17000127	0.09	0.562	6.5	281	16	51	0.7	112.6	15	455	2.82	174.1	336.9	3.4	
1540040	17L00011			SR03			CDN-BL-10	WHI17000127			2.2	24.4	2.4	41	0.2	22.2	9.7	401	2.34	4.3	0.25	0.9	
1540040	17L00011			SR03			REP	WHI17000127	0.13	0.0025	2.2	25	2.3	39	0.3	22.3	9.9	400	2.3	4.1	0.25	1	
1600240	17L00011			SR03			CDN-BL-10	WHI17000129	0.14	0.0025	2.3	26.8	2.4	44	0.2	22.7	10.5	375	2.33	4.7	0.25	1	
1540047	17L00012	0	5	SR03	20	Dry	Rock	WHI17000127	3.68	0.026	1.7	7.6	3.8	36	0.05	5.1	3.8	442	1.6	0.7	23.8	12.6	
1540054	17L00012	0	5	SR03	20	Dry	Rock	WHI17000127	2.3	0.012	1.5	9.6	4.1	27	0.05	6.6	3.6	384	1.38	1.2	10.4	13.3	
1540048	17L00012	5	10	SR03	20	Dry	Rock	WHI17000127	4.88	0.0025	1.2	4.4	3.4	33	0.05	2.5	2.7	346	1.2	0.25	0.25	9.2	

Appendix II

sample	sr_pi	cd_ppr	sbppm	bippm	vppm	capct	p_pct	la_cr	mg_pc	ba_pr	tipct	bppal	al_pc	na_pc	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga	seppm	teppr	
1540011	36	0.05	0.05	0.05	27	1.79	0.029	29	8	0.6	119	0.137	10	1.03	0.048	0.71	0.8	0.005	5.5	0.1	0.025	5	0.25	0.1
1540012	73	0.05	0.05	0.05	26	2.06	0.042	30	6	0.6	154	0.114	10	1.13	0.036	0.69	0.6	0.005	4.6	0.1	0.025	6	0.25	0.1
1540013	41	0.05	0.05	0.05	26	1.24	0.03	31	7	0.54	129	0.126	10	1.05	0.046	0.68	0.7	0.005	5.6	0.2	0.025	6	0.25	0.1
1540014	57	0.05	0.05	0.05	22	1.15	0.032	30	7	0.35	108	0.11	10	0.95	0.033	0.53	0.7	0.005	4.9	0.1	0.025	5	0.25	0.1
1540015	60	0.05	0.1	0.05	22	1.6	0.032	32	7	0.32	108	0.094	10	0.84	0.032	0.48	0.6	0.005	5	0.1	0.025	4	0.25	0.1
1540016	42	0.05	0.05	0.05	19	1.3	0.028	34	7	0.31	164	0.069	10	0.78	0.035	0.4	0.6	0.005	4.5	0.1	0.025	4	0.25	0.1
1540017	37	0.05	0.05	0.05	13	1.26	0.029	30	8	0.32	52	0.021	10	0.69	0.039	0.2	0.4	0.005	3.8	0.05	0.025	4	0.25	0.1
1540018	48	0.05	0.05	0.05	20	1.3	0.032	28	7	0.36	80	0.074	10	0.84	0.04	0.42	0.5	0.005	4.6	0.2	0.025	4	0.25	0.1
1540019	85	0.05	0.05	0.3	9	2.65	0.027	27	6	0.17	79	0.014	10	0.49	0.022	0.23	0.3	0.01	3.1	0.05	0.025	2	0.25	0.1
1540021	62	0.1	0.2	0.1	11	2.44	0.03	29	8	0.12	82	0.005	10	0.37	0.024	0.19	0.3	0.01	3.8	0.05	0.025	2	0.25	0.1
1540022	92	0.2	0.1	0.2	15	2.31	0.032	28	8	0.17	117	0.014	10	0.46	0.018	0.19	0.4	0.005	4.7	0.05	0.025	2	0.25	0.1
1540023	109	0.2	0.05	0.2	20	2.94	0.028	26	6	0.61	225	0.043	10	0.66	0.003	0.28	0.4	0.005	4.4	0.05	0.025	3	0.25	0.1
1540024	86	0.2	0.05	0.1	18	2.64	0.03	28	6	0.22	203	0.046	10	0.69	0.017	0.32	0.4	0.005	4.7	0.1	0.025	3	0.25	0.1
1540025	90	0.1	0.1	0.2	21	2.16	0.03	27	8	0.25	89	0.053	10	0.66	0.028	0.32	0.6	0.005	5	0.1	0.025	3	0.25	0.1
1540026	43	0.1	0.05	1.1	18	1.7	0.031	28	8	0.19	56	0.044	10	0.64	0.011	0.31	0.5	0.005	4.9	0.1	0.025	3	0.25	0.1
1540027	121	0.1	0.2	1.2	24	2.64	0.03	26	7	0.29	260	0.008	10	0.47	0.007	0.18	0.3	0.005	4.3	0.05	0.025	2	0.25	0.1
1540028	66	0.1	0.2	1.7	18	1.36	0.029	29	8	0.15	210	0.005	10	0.42	0.026	0.17	0.3	0.01	4.4	0.05	0.025	2	0.25	0.1
1540029	107	0.05	0.2	0.4	23	2.33	0.031	26	8	0.44	154	0.004	10	0.36	0.028	0.16	0.4	0.005	3.8	0.05	0.025	2	0.25	0.1
1540030	134	0.1	0.1	1.6	30	3.36	0.032	22	11	0.66	543	0.004	10	0.37	0.022	0.17	0.4	0.005	3.7	0.05	0.025	1	0.25	0.1
1540031	64	0.05	0.1	1.3	20	1.26	0.028	27	7	0.28	69	0.009	10	0.41	0.025	0.18	0.3	0.005	4.4	0.05	0.025	2	0.25	0.1
1540032	94	0.05	0.05	0.2	23	1.99	0.028	26	8	0.6	63	0.044	10	0.63	0.014	0.28	0.4	0.005	4.6	0.05	0.025	3	0.25	0.1
1540033	107	0.2	0.05	2.4	17	2.38	0.029	29	7	0.2	148	0.026	10	0.54	0.007	0.22	0.4	0.005	4	0.05	0.025	2	0.25	0.1
1540034	109	0.05	0.1	0.2	24	2.05	0.04	29	11	0.32	147	0.062	10	0.74	0.008	0.34	0.7	0.005	5.7	0.1	0.025	4	0.25	0.1
1540035	82	0.05	0.1	0.1	28	1.92	0.036	30	10	0.35	141	0.08	10	0.92	0.023	0.45	0.6	0.005	5	0.1	0.025	5	0.25	0.1
1540036	122	0.05	0.1	0.1	34	3	0.038	28	15	0.38	105	0.076	10	0.83	0.022	0.4	0.5	0.005	6.4	0.1	0.025	4	0.25	0.1
1540037	160	0.1	0.1	0.7	23	3.68	0.032	31	12	0.27	255	0.047	10	0.8	0.013	0.34	0.4	0.005	5.3	0.2	0.025	3	0.25	0.1
1540038	92	0.05	0.2	0.3	18	2.29	0.028	24	9	0.46	45	0.017	10	0.51	0.009	0.2	0.4	0.02	4	0.05	0.025	2	0.25	0.1
1540039	131	0.05	0.2	0.5	15	3.62	0.025	22	10	0.84	92	0.004	10	0.38	0.016	0.17	0.5	0.03	2.7	0.05	0.025	1	0.25	0.1
1540041	82	0.05	0.05	0.2	15	2.03	0.029	23	10	0.33	47	0.016	10	0.52	0.031	0.21	0.5	0.005	3.3	0.05	0.025	2	0.25	0.1
1540042	57	0.05	0.1	1.1	20	1.05	0.034	28	11	0.31	49	0.047	10	0.64	0.03	0.3	0.7	0.005	4.4	0.05	0.025	3	0.25	0.1
1540043	56	0.05	0.1	0.8	20	0.93	0.03	26	9	0.24	65	0.038	10	0.61	0.027	0.25	0.4	0.005	4.7	0.05	0.025	3	0.25	0.1
1540044	57	0.05	0.1	0.2	20	1.22	0.029	28	9	0.33	89	0.068	10	0.78	0.025	0.36	0.5	0.005	4.7	0.1	0.025	4	0.25	0.1
1540045	60	0.05	0.2	0.05	22	1.38	0.033	28	11	0.22	73	0.055	10	0.7	0.035	0.32	0.6	0.005	5.1	0.1	0.025	3	0.25	0.1
1540045	59	0.05	0.1	0.05	22	1.42	0.034	28	10	0.22	70	0.056	10	0.7	0.033	0.32	0.6	0.005	5.4	0.1	0.025	3	0.25	0.1
1540045																								
1540046	58	0.05	0.2	0.05	19	1.46	0.029	24	11	0.26	60	0.053	10	0.64	0.041	0.31	0.7	0.005	4.4	0.05	0.025	3	0.25	0.1
1540020	82	0.2	1.5	0.1	65	1.79	0.032	9	107	1.4	128	0.109	10	2.65	0.311	0.23	1.2	0.04	3.4	0.05	0.1	6	0.25	0.1
1540040	38	0.1	0.3	0.05	55	0.76	0.051	4	28	0.75	92	0.132	10	1.46	0.072	0.13	12.7	0.005	5	0.05	0.025	5	0.25	0.1
1540040	37	0.2	0.3	0.05	56	0.74	0.059	4	29	0.74	85	0.126	10	1.45	0.071	0.13	12.5	0.005	4.6	0.05	0.025	4	0.25	0.1
1600240	39	0.2	0.3	0.05	56	0.78	0.063	4	30	0.75	97	0.129	10	1.48	0.073	0.13	12.6	0.02	4.8	0.05	0.025	5	0.25	0.1
1540047	13	0.05	0.05	0.05	16	0.6	0.024	28	9	0.15	99	0.038	10	0.7	0.009	0.26	0.7	0.02	3.1	0.05	0.025	3	0.25	0.1
1540054	16	0.05	0.05	0.05	13	0.55	0.019	27	10	0.12	131	0.031	10	0.69	0.016	0.22	0.5	0.005	2.6	0.05	0.025	3	0.25	0.1
1540048	27	0.05	0.05	0.05	11	1.91	0.016	19	5	0.08	191	0.016	10	0.47	0.002	0.15	0.8	0.005	2.3	0.05	0.025	2	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pc	as_pp	au_ppl	th_pp
1540055	17L00012	5	10	SR03	20	Dry	Rock	WHI17000127	4.38	0.009	0.9	9.4	4.1	25	0.05	3.1	2.4	314	1.17	0.6	0.25	14.5
1540049	17L00012	10	15	SR03	20	Dry	Rock	WHI17000127	4.65	0.006	1.5	3.1	4.6	38	0.05	2.6	2.9	350	1.27	0.25	0.25	11
1540056	17L00012	10	15	SR03	20	Dry	Rock	WHI17000127	3.44	0.0025	1.4	4.8	9.5	23	0.05	2.8	2.8	421	1.21	0.25	0.25	14.5
1540050	17L00012	15	20	SR03	20	Dry	Rock	WHI17000127	1.74	0.0025	1	6	4.6	42	0.05	1.7	2.3	482	1	0.25	0.25	13
1540057	17L00012	15	20	SR03	20	Dry	Rock	WHI17000127	2.7	0.0025	0.9	5.8	2.3	34	0.05	2.4	2.4	378	1.23	0.25	0.25	15.8
1540051	17L00012	20	25	SR03	20	Dry	Rock	WHI17000127	3.19	0.0025	1	6.3	3.7	31	0.05	2	2.5	352	1.2	0.25	0.25	14.7
1540058	17L00012	20	25	SR03	20	Dry	Rock	WHI17000127	2.62	0.0025	0.6	8.9	3.1	32	0.05	1.9	2.2	338	1.18	0.25	0.25	15.3
1540052	17L00012	25	30	SR03	15	Dry	Rock	WHI17000127	2.02	0.0025	1.4	8.2	5.1	44	0.05	2	3.7	502	1.56	1.3	0.25	13.9
1540059	17L00012	25	30	SR03	20	Dry	Rock	WHI17000127	2.74	0.0025	0.7	7	3.3	51	0.05	2.6	3.3	540	1.75	0.25	0.25	7.5
1540053	17L00012	30	35	SR03	3	Dry	Rock	WHI17000127	0.33	0.0025	1.3	8.1	3.4	28	0.05	2.5	2.8	329	1.18	2.9	0.25	15.5
1540061	17L00012	30	35	SR03	20	Dry	Rock	WHI17000127	2.91	0.0025	1	5.9	4	44	0.05	2.7	3.8	501	1.66	0.25	0.25	9.2
1540062	17L00012	35	40	SR03	20	Dry	Rock	WHI17000127	2.66	0.0025	0.7	7.1	2.5	18	0.05	2.5	2.6	256	1.15	0.25	0.25	15.5
1540063	17L00012	40	45	SR03	20	Dry	Rock	WHI17000127	2.66	0.0025	1.1	10.5	5.2	34	0.05	2.5	3.3	431	1.47	0.25	0.25	15.6
1540064	17L00012	45	50	SR03	20	Dry	Rock	WHI17000127	3.18	0.006	1	6.2	3.2	30	0.05	2.2	3.1	424	1.51	0.25	3.2	13.4
1540065	17L00012	50	55	SR03	20	Dry	Rock	WHI17000127	3.03	0.0025	0.8	7.6	3.2	33	0.05	2	3.4	449	1.52	0.25	3.3	12.4
1540066	17L00012	55	60	SR03	20	Dry	Rock	WHI17000127	3.23	0.0025	0.8	6.8	3	22	0.05	2	2.3	299	1.24	0.25	2.9	17.9
1540067	17L00012	60	65	SR03	20	Dry	Rock	WHI17000127	2.35	0.0025	0.9	9.2	4.1	21	0.05	2	2.4	304	1.16	0.25	2	14.5
1540068	17L00012	65	70	SR03	20	Dry	Rock	WHI17000127	3.07	0.0025	1.5	12.1	3.9	23	0.05	2.2	3.1	383	1.27	0.25	13.1	14.4
1540069	17L00012	70	75	SR03	20	Dry	REP	WHI17000127	1.94	0.006	1.4	9.8	3.7	23	0.05	2.2	3	453	1.31	13	6.5	11.8
1540069	17L00012	70	75	SR03	20	Dry	Rock	WHI17000127		0.006												
1540070	17L00012	75	80	SR03	20	Dry	Rock	WHI17000127	2.79	0.0025	0.7	8.1	3.2	35	0.05	2	5.2	536	2.09	1.7	4.1	10.3
1540071	17L00012	80	85	SR03	20	Dry	Rock	WHI17000127	3.07	0.008	1	5.1	5.9	45	0.05	1.4	6.8	1241	2.55	2.3	6.5	6.1
1540072	17L00012	85	90	SR03	20	Wet	Rock	WHI17000127	2.61	0.006	0.8	7.5	3.6	24	0.05	2.3	2.5	346	1.2	4.8	6.3	13.4
1540073	17L00012	90	95	SR03	20	Wet	Rock	WHI17000127	1.65	0.0025	0.5	7	3	26	0.05	1.9	2.1	365	1.09	5.6	4.6	10.6
1540074	17L00012	95	100	SR03	20	Wet	Rock	WHI17000127	1.11	0.0025	0.7	7.1	3.1	32	0.05	2.2	2.8	385	1.39	11.6	5.3	10.6
1540060	17L00012			SR03			CDN-GS-5U	WHI17000127	0.09	4.818	8.2	196	23.2	79	0.9	14.2	11.9	586	4.34	11.9	5356	2.9
1540075	17L00013	0	5	SR03	20	Dry	Rock	WHI17000127	4.33	0.011	1.4	12.1	4.3	46	0.05	4.1	6.5	726	2.36	2.3	8.5	10.2
1540075	17L00013	0	5	SR03	20	Dry	REP	WHI17000127			1.5	11.8	4.1	48	0.05	3.8	6.6	775	2.39	1.9	7	9.8
1540076	17L00013	5	10	SR03	20	Dry	Rock	WHI17000127	5.31	0.0025	1.8	12.5	4.6	50	0.05	3	6.1	737	2.46	1	4.5	6.5
1540077	17L00013	10	15	SR03	25	Dry	Rock	WHI17000127	5.16	0.0025	0.5	18.7	2.5	41	0.05	2	4.3	484	1.64	0.7	2.8	9.6
1540078	17L00013	15	20	SR03	20	Dry	Rock	WHI17000127	3.94	0.0025	0.7	11.9	4.8	40	0.05	2.8	4.1	433	1.65	0.5	1.5	7.2
1540079	17L00013	20	25	SR03	20	Dry	Rock	WHI17000127	5.16	0.0025	0.6	7	4.5	45	0.05	2	3.8	446	1.67	0.7	0.25	8.6
1540079	17L00013	20	25	SR03	20	Dry	DUP	WHI17000127		0.0025	0.6	6	4.3	42	0.05	2.1	3.5	427	1.63	0.5	1.4	8
1540081	17L00013	25	30	SR03	20	Dry	Rock	WHI17000127	4.36	0.0025	0.7	8.5	3	40	0.05	2.2	4.4	421	1.79	0.5	1.8	11.1
1540082	17L00013	30	35	SR03	20	Dry	Rock	WHI17000127	4	0.0025	0.8	5.2	3.4	38	0.05	2.4	4.4	506	1.92	0.5	0.9	10.8
1540083	17L00013	35	40	SR03	20	Dry	Rock	WHI17000127	4.69	0.0025	0.9	5.6	2.8	40	0.05	2.2	4.6	552	1.93	0.8	0.6	12.1
1540084	17L00013	40	45	SR03	20	Dry	Rock	WHI17000127	3.52	0.0025	1	3.8	4.1	37	0.05	2.2	4.6	602	1.91	0.25	0.25	10.1
1540085	17L00013	45	50	SR03	20	Dry	Rock	WHI17000127	4.25	0.0025	1.4	5	4.5	34	0.05	2.1	3.7	552	1.67	0.5	0.8	7.6
1540086	17L00013	50	55	SR03	20	Dry	Rock	WHI17000127	4.42	0.0025	2.6	45.6	22.7	38	0.2	2.1	2.7	337	1.44	0.25	0.25	12.3
1540087	17L00013	55	60	SR03	20	Dry	Rock	WHI17000127	4.64	0.0025	3.1	12.3	5.9	29	0.05	1.8	2.6	394	1.26	0.8	0.25	11.7
1540088	17L00013	60	65	SR03	20	Dry	Rock	WHI17000127	3.76	0.0025	2.8	10.8	5.8	26	0.05	2	2.7	455	1.29	1.2	0.5	10.6
1540089	17L00013	65	70	SR03	20	Dry	Rock	WHI17000127	3.85	0.0025	1.4	6.2	3.9	31	0.05	1.8	2.7	431	1.34	0.5	2.4	11.3
1540090	17L00013	70	75	SR03	20	Dry	Rock	WHI17000127	4.23	0.0025	1.6	4.8	4.5	55	0.05	2.3	3.7	698	1.86	0.6	0.25	15.9

Appendix II

sample	sr_pi	cd_ppr	sbppm	bippm	vppm	capct	p_pct	la_cr	mg_pc	ba_pr	tipct	bppal	al_pc	na_pc	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga	seppm	teppr	
1540055	35	0.05	0.05	0.05	8	0.83	0.013	26	7	0.12	76	0.034	10	0.64	0.036	0.26	0.8	0.005	1.8	0.1	0.025	3	0.25	0.1
1540049	34	0.05	0.05	0.05	10	2.44	0.013	24	6	0.07	106	0.008	10	0.46	0.003	0.12	0.9	0.005	1.6	0.05	0.025	2	0.25	0.1
1540056	23	0.05	0.05	0.05	9	0.94	0.017	29	5	0.12	91	0.033	10	0.62	0.005	0.26	1.1	0.005	2.1	0.1	0.025	3	0.25	0.1
1540050	48	0.05	0.05	0.05	7	3.38	0.014	24	5	0.09	94	0.018	10	0.51	0.002	0.17	0.7	0.005	1.7	0.05	0.025	2	0.25	0.1
1540057	20	0.05	0.05	0.05	9	0.95	0.016	31	6	0.17	85	0.039	10	0.68	0.033	0.3	0.8	0.005	2.2	0.1	0.025	3	0.25	0.1
1540051	26	0.05	0.05	0.05	10	1.67	0.016	29	5	0.08	121	0.018	10	0.54	0.002	0.16	0.6	0.01	2.2	0.05	0.025	2	0.25	0.1
1540058	32	0.05	0.05	0.05	9	1.22	0.023	27	5	0.13	87	0.025	10	0.54	0.028	0.25	0.8	0.005	1.3	0.05	0.025	3	0.25	0.1
1540052	40	0.05	0.05	0.05	14	2.58	0.015	30	4	0.07	155	0.011	10	0.43	0.002	0.12	0.8	0.005	2.4	0.05	0.025	2	0.25	0.1
1540059	37	0.05	0.05	0.05	39	1.35	0.038	13	8	0.39	240	0.113	10	1.18	0.021	0.61	0.7	0.005	2.4	0.2	0.025	6	0.25	0.1
1540053	28	0.05	0.05	0.05	9	1.56	0.016	28	8	0.08	180	0.019	10	0.63	0.002	0.17	1.1	0.005	2.8	0.05	0.025	3	0.25	0.1
1540061	31	0.05	0.05	0.05	27	1.86	0.028	17	6	0.26	173	0.064	10	0.79	0.014	0.39	0.6	0.005	2.4	0.1	0.025	4	0.25	0.1
1540062	21	0.05	0.05	0.05	7	1.02	0.014	28	6	0.1	71	0.024	10	0.59	0.031	0.24	0.7	0.005	1.7	0.05	0.025	3	0.25	0.1
1540063	55	0.05	0.05	0.05	11	2.94	0.017	31	7	0.15	86	0.031	10	0.55	0.017	0.25	0.7	0.005	2.3	0.05	0.025	3	0.25	0.1
1540064	36	0.05	0.05	0.05	15	1.41	0.023	32	6	0.19	96	0.055	10	0.73	0.023	0.34	0.7	0.005	3.2	0.1	0.025	4	0.25	0.1
1540065	24	0.05	0.05	0.05	14	1.11	0.023	28	6	0.17	104	0.048	10	0.66	0.022	0.32	0.6	0.005	3.3	0.1	0.025	3	0.25	0.1
1540066	26	0.05	0.05	0.05	9	0.76	0.016	33	6	0.12	64	0.032	10	0.57	0.041	0.24	0.8	0.005	2.7	0.05	0.025	3	0.25	0.1
1540067	25	0.05	0.05	0.05	6	0.98	0.013	26	5	0.08	64	0.012	10	0.55	0.02	0.17	0.8	0.005	1.6	0.05	0.025	2	0.25	0.1
1540068	25	0.05	0.05	0.05	6	1.22	0.014	26	7	0.07	82	0.011	10	0.51	0.015	0.16	0.8	0.005	1.5	0.05	0.025	2	0.25	0.1
1540069	34	0.05	0.05	0.05	9	1.45	0.015	22	5	0.07	100	0.009	10	0.4	0.022	0.14	0.9	0.005	1.5	0.05	0.025	1	0.25	0.1
1540069																								
1540070	66	0.05	0.05	0.05	29	2.33	0.033	23	6	0.3	120	0.051	10	0.8	0.023	0.4	0.4	0.005	5.4	0.1	0.025	3	0.25	0.1
1540071	122	0.05	0.05	0.05	33	5.88	0.035	23	3	0.5	406	0.009	10	0.53	0.004	0.19	0.05	0.005	7.2	0.05	0.025	2	0.25	0.1
1540072	67	0.05	0.05	0.05	6	1.98	0.013	27	7	0.14	179	0.004	10	0.39	0.03	0.13	0.4	0.005	1.9	0.05	0.025	1	0.25	0.1
1540073	49	0.05	0.05	0.05	7	1.81	0.011	23	4	0.23	80	0.009	10	0.34	0.033	0.14	0.2	0.005	1.7	0.05	0.025	2	0.25	0.1
1540074	42	0.05	0.05	0.05	12	1.99	0.021	23	6	0.26	67	0.02	10	0.45	0.038	0.18	0.5	0.005	2.6	0.05	0.025	2	0.25	0.1
1540060	74	0.2	4.5	0.5	103	0.95	0.06	8	19	0.89	131	0.16	10	1.8	0.19	0.24	5.1	0.18	3.7	0.05	0.025	5	0.25	0.1
1540075	23	0.05	0.2	0.05	34	1.13	0.038	27	7	0.2	141	0.039	10	0.71	0.027	0.26	0.4	0.005	6.4	0.05	0.025	3	0.25	0.1
1540075	24	0.05	0.2	0.05	34	1.16	0.039	28	7	0.21	140	0.041	10	0.71	0.027	0.26	0.4	0.005	6.6	0.05	0.025	3	0.25	0.1
1540076	40	0.05	0.2	0.1	36	2.58	0.043	20	6	0.21	167	0.049	10	0.71	0.009	0.32	0.5	0.005	6.6	0.1	0.025	3	0.25	0.1
1540077	28	0.05	0.05	0.1	24	1.04	0.04	22	4	0.36	97	0.1	10	0.87	0.011	0.55	1	0.005	3.7	0.2	0.025	4	0.25	0.1
1540078	55	0.05	0.05	0.1	22	1.69	0.037	18	7	0.3	122	0.082	10	0.97	0.014	0.5	0.6	0.005	2.7	0.2	0.025	4	0.25	0.1
1540079	44	0.05	0.05	0.05	23	1.55	0.037	25	5	0.31	150	0.087	10	0.82	0.034	0.46	0.6	0.005	3.4	0.1	0.025	4	0.25	0.1
1540079	44	0.05	0.05	0.05	23	1.54	0.036	23	4	0.3	136	0.084	10	0.82	0.036	0.46	0.5	0.005	3.3	0.1	0.025	4	0.25	0.1
1540081	37	0.05	0.05	0.05	21	1.16	0.031	31	6	0.3	119	0.092	10	0.86	0.048	0.49	0.6	0.005	4.1	0.2	0.025	4	0.25	0.1
1540082	46	0.05	0.05	0.05	23	1.25	0.031	29	6	0.37	114	0.112	10	0.99	0.039	0.58	0.8	0.005	4.5	0.1	0.025	4	0.25	0.1
1540083	44	0.05	0.05	0.05	24	1.23	0.031	33	5	0.39	141	0.119	10	0.93	0.052	0.63	0.8	0.005	5.2	0.2	0.025	4	0.25	0.1
1540084	66	0.05	0.05	0.05	21	2.04	0.034	29	6	0.32	136	0.089	10	0.89	0.028	0.51	0.4	0.005	4.7	0.1	0.025	4	0.25	0.1
1540085	61	0.05	0.05	0.1	16	2.58	0.034	23	5	0.22	181	0.045	10	0.72	0.008	0.32	0.5	0.005	2.8	0.05	0.025	3	0.25	0.1
1540086	17	0.2	0.05	1.8	7	0.76	0.026	30	6	0.09	114	0.022	10	0.51	0.023	0.22	0.8	0.005	2.3	0.05	0.025	2	0.25	0.1
1540087	40	0.05	0.05	0.3	7	1.32	0.023	31	5	0.08	103	0.016	10	0.43	0.031	0.21	0.9	0.005	2	0.05	0.025	2	0.25	0.1
1540088	70	0.05	0.05	0.2	6	2.14	0.025	28	6	0.07	196	0.003	10	0.38	0.023	0.21	0.7	0.005	1.3	0.05	0.025	1	0.25	0.1
1540089	44	0.05	0.05	0.05	10	1.53	0.022	29	4	0.12	121	0.023	10	0.48	0.03	0.21	0.7	0.005	2.5	0.05	0.025	2	0.25	0.1
1540090	53	0.05	0.05	0.05	17	2.56	0.027	37	6	0.34	188	0.044	10	0.82	0.04	0.34	0.4	0.005	4.1	0.1	0.025	5	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pc	as_pp	au_ppl	th_pp
1540091	17L00013	75	80	SR03	20	Dry	Rock	WHI17000127	3.73	0.0025	1	6.6	3.4	38	0.05	2	2.8	424	1.37	0.25	0.25	11.3
1540092	17L00013	80	85	SR03	20	Dry	Rock	WHI17000127	4.89	0.0025	1	7.3	3.8	32	0.05	2.3	2.8	436	1.49	0.6	0.25	11.5
1540093	17L00013	85	90	SR03	20	Dry	Rock	WHI17000127	4.37	0.0025	1	8.1	4.8	41	0.05	2.4	2.9	466	1.48	0.7	0.25	10.1
1540094	17L00013	90	95	SR03	20	Dry	Rock	WHI17000127	3.9	0.0025	1.3	6.1	4.9	39	0.05	2.2	2.5	416	1.41	0.8	0.25	10.1
1540095	17L00013	95	100	SR03	20	Dry	Rock	WHI17000127	4.73	0.0025	2.7	5.1	4.3	48	0.05	2	3.6	638	1.75	0.25	0.25	11.6
1540096	17L00013	100	105	SR03	20	Dry	Rock	WHI17000127	4.11	0.0025	5.1	12.1	2.9	49	0.05	2.4	4.6	474	1.96	0.25	0.25	10.6
1540097	17L00013	105	110	SR03	20	Dry	Rock	WHI17000127	4.11	0.0025	19.3	14	3.9	52	0.05	2.1	4.3	667	2.05	0.6	0.25	10.9
1540098	17L00013	110	115	SR03	20	Dry	Rock	WHI17000127	4.45	0.0025	3.5	10.2	3.3	41	0.05	2.5	3.1	386	1.55	0.25	0.25	11.2
1540099	17L00013	115	120	SR03	20	Dry	Rock	WHI17000127	4.27	0.0025	3.1	7.7	3.6	39	0.05	2	2.7	452	1.35	0.6	0.8	10.3
1540101	17L00013	120	125	SR03	20	Dry	Rock	WHI17000127	3.88	0.0025	1.7	9.1	4.6	36	0.05	2.1	3.2	392	1.38	0.25	8.4	13.6
1540102	17L00013	125	130	SR03	20	Dry	Rock	WHI17000127	4.35	0.0025	2.3	5.3	6	42	0.05	2.2	3	610	1.57	0.25	5.1	9
1540103	17L00013	130	135	SR03	20	Dry	Rock	WHI17000127	4.28	0.0025	1.2	5.7	3.8	34	0.05	2.5	2.7	388	1.53	0.25	3.6	10.2
1540104	17L00013	135	140	SR03	20	Dry	Rock	WHI17000127	4.26	0.0025	1.3	13.5	4.4	32	0.05	2.4	3	379	1.47	1.2	3.5	11.2
1540105	17L00013	140	145	SR03	20	Dry	Rock	WHI17000127	4.57	0.0025	2.6	10.4	3.4	32	0.05	2.5	2.8	349	1.39	1.1	1.3	13.7
1540106	17L00013	145	150	SR03	20	Dry	Rock	WHI17000127	4.87	0.0025	2	7.5	3.4	30	0.05	2.4	2.8	352	1.41	0.5	1.5	13.9
1540107	17L00013	150	155	SR03	10	Dry	Rock	WHI17000127	1.67	0.0025	3.3	8.5	4.4	33	0.05	2.5	3.2	499	1.66	0.25	1.6	12.6
1540108	17L00013	155	160	SR03	2	Dry	Rock	WHI17000127	0.42	0.0025	3.7	7.9	3.4	34	0.05	1.9	2.2	353	1.25	0.8	0.9	9.6
1540080	17L00013			SR03			CDN-BL-10	WHI17000127	0.12	0.0025	2.4	25.7	2.3	43	0.3	22.6	10.3	387	2.31	4.8	1.8	1.4
1540100	17L00013			SR03			CDN-GS-P4F	WHI17000127	0.09	0.425	6.5	290	15.9	52	0.7	114.5	15.5	476	2.86	180.3	470	3.4
1540109	17L00014	0	5	SR03	20	Dry	Rock	WHI17000127	2.9	0.069	1.5	13.3	3.9	38	0.05	3.2	5.2	648	1.88	0.7	68.1	10.7
1540110	17L00014	5	10	SR03	20	Dry	Rock	WHI17000127			1.5	3.6	3.9	36	0.05	2.2	4.7	527	1.74	0.8	7.8	10.7
1540110	17L00014	5	10	SR03	20	Dry	REP	WHI17000127	3.45	0.007	1.6	3.3	3.7	33	0.05	2.6	4.6	516	1.73	0.8	7.4	10.2
1540111	17L00014	10	15	SR03	25	Dry	Rock	WHI17000127	4.25	0.0025	1.2	8.7	3.6	30	0.05	1.8	3.7	464	1.64	0.25	4.1	10.3
1540112	17L00014	15	20	SR03	20	Dry	Rock	WHI17000127	3.09	0.0025	2.6	13.7	4.9	27	0.05	2.4	4.2	443	1.41	1.3	5.8	8.7
1540113	17L00014	20	25	SR03	20	Dry	DUP	WHI17000127	2.73	0.0025	1.6	7.5	5.2	29	0.05	1.4	3.6	321	1.48	2.3	2.3	10.1
1540113	17L00014	20	25	SR03	20	Dry	Rock	WHI17000127		0.0025	1.6	6.9	5	26	0.05	1.4	3.7	319	1.53	2.4	2.2	10.1
1540114	17L00014	25	30	SR03	20	Dry	Rock	WHI17000127	3.12	0.0025	0.9	7.1	4.2	36	0.05	1.5	4.8	472	1.8	1.2	4	10.8
1540115	17L00014	30	35	SR03	20	Dry	Rock	WHI17000127	2.93	0.0025	1	4.9	3.1	23	0.05	1.2	3.4	302	1.16	0.6	2.5	9.6
1540116	17L00014	35	40	SR03	20	Dry	Rock	WHI17000127	3.2	0.0025	4	7.1	5.7	31	0.05	1.1	3.5	422	1.37	0.25	2.4	9.5
1540117	17L00014	40	45	SR03	20	Dry	Rock	WHI17000127	2.92	0.0025	2.2	44.8	6.2	25	0.1	1	3.6	333	1.12	0.25	1.7	9.2
1540118	17L00014	45	50	SR03	20	Dry	Rock	WHI17000127	3.52	0.011	2.7	57.6	9.1	37	0.1	1.8	5.2	610	1.69	0.8	11.1	10.2
1540119	17L00014	50	55	SR03	20	Dry	REP	WHI17000127		0.0025												
1540119	17L00014	50	55	SR03	20	Dry	Rock	WHI17000127	3.43	0.0025	2.6	1.9	8	43	0.05	1.4	3.4	433	1.54	0.25	1.5	11.1
1540121	17L00014	55	60	SR03	20	Dry	Rock	WHI17000127	3.09	0.0025	1.5	2.5	4.1	33	0.05	1.3	3.3	373	1.55	0.25	0.6	13
1540122	17L00014	60	65	SR03	20	Dry	Rock	WHI17000127	3.25	0.005	2.4	3.6	4.2	29	0.05	1	2.9	453	1.29	0.25	3.8	9
1540123	17L00014	65	70	SR03	20	Dry	Rock	WHI17000127	3.12	0.145	2.7	51.4	5.4	21	0.2	1.3	3.7	313	1.1	1	176.3	9.5
1540124	17L00014	70	75	SR03	20	Dry	Rock	WHI17000127	3.33	0.013	8.1	53.1	6.1	30	0.2	1.2	4.3	296	1.37	0.7	14	10.2
1540125	17L00014	75	80	SR03	20	Dry	Rock	WHI17000127	3.81	0.0025	3	8.4	5.5	36	0.05	1.5	3.9	515	1.51	0.25	6.3	9.3
1540126	17L00014	80	85	SR03	20	Dry	Rock	WHI17000127	3.28	0.0025	1.7	4.5	4.5	43	0.05	1.2	4.5	665	1.87	0.25	4.5	12.5
1540127	17L00014	85	90	SR03	20	Dry	Rock	WHI17000127	3.48	0.0025	3.4	6.1	4.7	34	0.05	1.5	3.9	438	1.72	0.25	4.9	11.9
1540128	17L00014	90	95	SR03	20	Dry	Rock	WHI17000127	3.29	0.0025	4.7	8.7	4	37	0.05	1.6	4.6	480	1.78	0.25	2.9	10.6
1540129	17L00014	95	100	SR03	20	Dry	Rock	WHI17000127	3.7	0.0025	6.4	12.3	4.4	32	0.05	1.4	4	478	1.77	0.25	2.3	9.6
1540130	17L00014	100	105	SR03	20	Dry	Rock	WHI17000127	3.76	0.0025	8	3.2	5.3	35	0.05	1.4	4.5	555	1.81	0.25	3.2	11.5

Appendix II

sample	sr_pi	cd_ppr	sbppm	bippm	vppm	capct	p_pct	la_cr	mg_pct	ba_pct	tipct	bppal	al_pct	na_pct	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga	seppm	teppr	
1540091	28	0.05	0.05	0.05	11	1.04	0.023	31	6	0.15	87	0.043	10	0.56	0.04	0.28	0.6	0.005	3.2	0.1	0.025	3	0.25	0.1
1540092	40	0.05	0.05	0.05	11	1.55	0.023	31	7	0.14	84	0.037	10	0.54	0.052	0.25	1	0.005	2.7	0.05	0.025	3	0.25	0.1
1540093	40	0.05	0.05	0.05	13	1.17	0.03	25	6	0.19	93	0.044	10	0.6	0.055	0.3	0.9	0.005	2.7	0.05	0.025	3	0.25	0.1
1540094	24	0.05	0.05	0.05	11	0.6	0.023	31	7	0.17	81	0.045	10	0.58	0.05	0.28	0.8	0.005	2.6	0.05	0.025	3	0.25	0.1
1540095	41	0.05	0.05	0.05	19	1.82	0.027	35	6	0.28	133	0.056	10	0.72	0.032	0.36	0.6	0.005	4	0.1	0.025	4	0.25	0.1
1540096	31	0.05	0.05	0.2	21	0.77	0.031	31	8	0.35	91	0.11	10	1	0.031	0.56	0.6	0.005	4.2	0.2	0.025	5	0.25	0.1
1540097	34	0.05	0.05	0.3	21	1.07	0.032	30	6	0.28	116	0.086	10	0.9	0.028	0.49	0.7	0.005	4.5	0.2	0.025	4	0.25	0.1
1540098	16	0.1	0.05	0.1	12	0.54	0.026	30	8	0.18	57	0.056	10	0.67	0.053	0.35	0.8	0.005	2.7	0.2	0.025	3	0.25	0.1
1540099	41	0.05	0.05	0.05	11	1.17	0.024	30	6	0.18	51	0.049	10	0.53	0.048	0.3	0.8	0.005	2.5	0.1	0.025	3	0.25	0.1
1540101	35	0.05	0.05	0.1	13	0.97	0.034	33	7	0.19	72	0.05	10	0.63	0.046	0.33	0.9	0.005	2.6	0.1	0.025	3	0.25	0.1
1540102	66	0.1	0.05	0.05	12	2.32	0.023	28	6	0.17	230	0.043	10	0.58	0.019	0.27	0.7	0.005	2.9	0.05	0.025	3	0.25	0.1
1540103	49	0.05	0.05	0.05	12	1.47	0.024	32	8	0.18	131	0.056	10	0.76	0.008	0.32	0.6	0.005	3.5	0.1	0.025	3	0.25	0.1
1540104	39	0.05	0.05	0.05	14	0.94	0.029	28	8	0.19	75	0.062	10	0.66	0.04	0.33	0.9	0.005	3.5	0.1	0.025	3	0.25	0.1
1540105	36	0.05	0.05	0.05	10	0.94	0.021	35	9	0.14	73	0.046	10	0.66	0.033	0.27	0.8	0.005	3.2	0.1	0.025	3	0.25	0.1
1540106	40	0.05	0.05	0.05	10	0.98	0.021	30	7	0.15	69	0.053	10	0.68	0.04	0.3	0.9	0.005	2.9	0.05	0.025	3	0.25	0.1
1540107	38	0.05	0.05	0.05	13	1.01	0.026	31	10	0.2	94	0.075	10	0.82	0.022	0.37	0.8	0.005	3.9	0.2	0.025	4	0.25	0.1
1540108	38	0.05	0.05	0.05	11	1.1	0.018	24	13	0.14	87	0.042	10	0.6	0.031	0.25	0.3	0.005	2.6	0.05	0.025	3	0.25	0.1
1540080	40	0.2	0.3	0.05	56	0.73	0.058	4	29	0.74	98	0.124	10	1.49	0.073	0.13	13.1	0.005	4.2	0.05	0.025	5	0.25	0.1
1540100	79	0.3	2	0.2	65	1.71	0.036	9	108	1.41	129	0.1	10	2.63	0.31	0.23	1	0.04	2.8	0.05	0.1	5	0.25	0.1
1540109	18	0.05	0.1	0.05	26	1.2	0.033	25	5	0.25	141	0.052	10	0.92	0.006	0.33	0.6	0.01	4.8	0.1	0.025	3	0.25	0.1
1540110	23	0.05	0.05	0.05	21	1.43	0.034	30	5	0.23	137	0.068	10	0.86	0.003	0.35	0.6	0.005	5.2	0.1	0.025	4	0.25	0.1
1540110	23	0.05	0.05	0.05	21	1.43	0.034	30	5	0.23	138	0.067	10	0.87	0.003	0.35	0.5	0.005	5.1	0.05	0.025	4	0.25	0.1
1540111	26	0.05	0.05	0.2	16	2.24	0.03	25	4	0.12	101	0.03	10	0.66	0.001	0.21	0.6	0.005	4.6	0.05	0.025	2	0.25	0.1
1540112	33	0.05	0.1	0.4	9	3.07	0.029	28	4	0.08	114	0.003	10	0.46	5E-04	0.2	0.7	0.005	2.8	0.05	0.025	1	0.25	0.1
1540113	30	0.05	0.1	0.2	17	1.94	0.037	24	3	0.09	68	0.013	10	0.58	5E-04	0.19	0.5	0.005	4.7	0.05	0.025	2	0.25	0.1
1540113	28	0.05	0.1	0.2	18	1.96	0.039	24	3	0.1	73	0.014	10	0.69	0.002	0.2	0.4	0.005	4.8	0.05	0.025	2	0.25	0.1
1540114	29	0.05	0.05	0.2	21	1.68	0.038	29	5	0.24	122	0.065	10	0.91	0.003	0.41	0.6	0.005	5.2	0.2	0.025	3	0.25	0.1
1540115	28	0.05	0.05	0.1	11	1.85	0.037	23	3	0.11	65	0.018	10	0.68	0.001	0.26	0.4	0.005	2.9	0.05	0.025	2	0.25	0.1
1540116	46	0.05	0.05	0.1	9	2.52	0.034	23	3	0.09	218	0.01	10	0.59	0.002	0.25	0.5	0.005	2.8	0.05	0.025	2	0.25	0.1
1540117	26	0.05	0.05	0.3	8	1.62	0.032	22	4	0.07	150	0.01	10	0.58	0.002	0.23	0.4	0.005	3.3	0.05	0.025	2	0.25	0.1
1540118	32	0.1	0.1	0.2	19	2.06	0.036	26	3	0.14	148	0.03	10	0.74	0.003	0.28	0.3	0.005	4.5	0.05	0.025	2	0.25	0.1
1540119																								
1540119	36	0.1	0.05	0.05	14	2.57	0.022	29	4	0.18	148	0.039	10	0.73	0.007	0.24	0.6	0.005	3.4	0.05	0.025	3	0.25	0.1
1540121	30	0.05	0.05	0.05	13	1.61	0.025	32	5	0.25	116	0.041	10	0.76	0.013	0.29	0.4	0.005	3.9	0.05	0.025	3	0.25	0.1
1540122	25	0.05	0.05	0.05	12	1.57	0.031	23	3	0.08	112	0.013	10	0.61	0.002	0.19	0.3	0.005	3	0.05	0.025	2	0.25	0.1
1540123	20	0.05	0.1	0.5	7	0.71	0.024	24	3	0.04	304	0.001	10	0.58	0.003	0.2	0.2	0.02	2.3	0.05	0.025	2	0.25	0.4
1540124	30	0.2	0.1	1.3	10	1.2	0.033	26	4	0.06	458	0.006	10	0.53	0.002	0.19	0.3	0.02	3.1	0.05	0.025	2	0.25	0.1
1540125	51	0.05	0.05	0.2	16	2.28	0.031	21	4	0.13	656	0.026	10	0.8	0.002	0.23	0.2	0.005	4.2	0.05	0.025	3	0.25	0.1
1540126	38	0.05	0.05	0.05	21	2.39	0.033	43	4	0.2	400	0.066	10	0.86	0.002	0.35	0.5	0.005	5.2	0.1	0.025	4	0.25	0.1
1540127	37	0.05	0.05	0.05	18	1.55	0.033	43	6	0.15	303	0.043	10	0.69	0.002	0.27	0.4	0.005	5	0.1	0.025	3	0.25	0.1
1540128	39	0.05	0.1	0.05	18	1.45	0.029	29	5	0.18	217	0.046	10	0.79	0.023	0.29	0.4	0.005	5	0.1	0.025	3	0.25	0.1
1540129	84	0.05	0.1	0.05	17	1.87	0.031	23	6	0.18	64	0.037	10	0.67	0.045	0.25	0.6	0.005	4.4	0.05	0.025	3	0.25	0.1
1540130	89	0.05	0.1	0.05	20	2.03	0.031	31	6	0.23	64	0.042	10	0.64	0.036	0.25	0.5	0.005	5.3	0.05	0.025	3	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pc	as_pp	au_ppl	th_pp
1540131	17L00014	105	110	SR03	20	Dry	Rock	WHI17000127	3.08	0.0025	4	4.7	5.8	34	0.05	1.3	4.5	731	1.78	0.25	1.7	10.6
1540132	17L00014	110	115	SR03	20	Dry	Rock	WHI17000127	3.57	0.0025	2.9	3.1	4.4	35	0.05	1.3	4.7	586	1.79	0.6	1.3	10.7
1540133	17L00014	115	120	SR03	20	Dry	Rock	WHI17000127	3.46	0.0025	1.8	3.8	3.1	43	0.05	1.7	4.2	496	1.73	0.25	0.8	7.9
1540134	17L00014	120	125	SR03	20	Dry	Rock	WHI17000127	3.75	0.0025	3.8	3.5	3.3	37	0.05	1.4	3.6	466	1.54	0.25	1.7	8.1
1540135	17L00014	125	130	SR03	20	Dry	Rock	WHI17000127	4	0.0025	16	2.9	6.3	35	0.05	1.3	4.1	524	1.8	0.25	0.8	10.1
1540136	17L00014	130	135	SR03	20	Dry	Rock	WHI17000127	3.8	0.0025	1.7	8.1	5.7	50	0.05	1.3	4.2	511	1.74	0.25	1.6	10.5
1540137	17L00014	135	140	SR03	20	Dry	Rock	WHI17000127	4.06	0.0025	1.5	8	5.2	64	0.05	1.8	5	650	2	0.25	1.6	9.8
1540138	17L00014	140	145	SR03	20	Dry	Rock	WHI17000127	3.97	0.0025	1.1	6.6	3.6	47	0.05	1.5	4.4	566	1.85	0.25	1.4	9.5
1540139	17L00014	145	150	SR03	20	Dry	REP	WHI17000128		0.0025												
1540139	17L00014	145	150	SR03	20	Dry	Rock	WHI17000128	3.78	0.0025	2.4	10.5	8	56	0.05	1.3	4.4	752	1.97	0.6	0.25	9.7
1540141	17L00014	150	155	SR03	20	Dry	REP	WHI17000128	3.6	0.009	1.8	18	6.9	51	0.05	1.4	3.7	590	1.63	0.6	1.7	9.1
1540141	17L00014	150	155	SR03	20	Dry	Rock	WHI17000128			2	17.9	6.8	49	0.05	1.6	3.7	590	1.64	0.6	0.6	9
1540142	17L00014	155	160	SR03	20	Dry	Rock	WHI17000128	3.2	0.0025	2.2	6.4	4.7	28	0.05	1.2	2.8	435	1.21	0.25	2	9.5
1540143	17L00014	160	165	SR03	20	Dry	Rock	WHI17000128	3.57	0.0025	1.3	4.6	3.7	24	0.05	1.4	2.2	349	1.17	0.25	1.6	10.2
1540144	17L00014	165	170	SR03	20	Dry	Rock	WHI17000128	3.65	0.0025	1.3	5.6	3.4	26	0.05	1.2	2.3	406	1.12	0.25	0.9	11.8
1540145	17L00014	170	175	SR03	20	Dry	Rock	WHI17000128	3.39	0.0025	1.7	5.5	2.5	29	0.05	1.3	2.7	401	1.31	0.25	0.25	12.8
1540146	17L00014	175	180	SR03	20	Dry	Rock	WHI17000128	3.75	0.0025	1.5	4.6	2.3	33	0.05	1.5	3	454	1.34	0.25	0.25	11.9
1540147	17L00014	180	185	SR03	20	Dry	Rock	WHI17000128	3.4	0.0025	1.7	3.3	2.6	38	0.05	1.8	4.4	558	1.76	0.25	0.25	10.9
1540148	17L00014	185	190	SR03	20	Dry	Rock	WHI17000128	3.84	0.0025	1.9	3.2	3.1	33	0.05	4.1	4.1	458	1.71	0.25	0.25	11.5
1540149	17L00014	190	195	SR03	20	Dry	Rock	WHI17000128	3.57	0.0025	1.3	6	3	37	0.05	2	5.2	502	1.99	0.25	0.25	10.3
1540150	17L00014	195	200	SR03	20	Dry	Rock	WHI17000128	3.73	0.0025	1.4	6	2.6	38	0.05	1.9	5	549	1.86	0.25	0.25	9.1
1540151	17L00014	200	205	SR03	20	Dry	Rock	WHI17000128	3.32	0.0025	1.7	5.4	2.1	46	0.05	2	5.3	556	2.15	0.25	0.25	10.9
1540152	17L00014	205	210	SR03	18	Dry	Rock	WHI17000128	3.26	0.0025	2	2.8	2.9	43	0.05	1.5	5.1	611	2.07	0.25	0.25	10.7
1540153	17L00014	210	215	SR03	20	Dry	REP	WHI17000128			2	3.3	2.3	39	0.05	1.5	4.7	489	1.89	0.25	0.25	10.5
1540153	17L00014	210	215	SR03	20	Dry	Rock	WHI17000128	3.82	0.0025	2	3.4	2.4	40	0.05	1.4	4.9	496	1.95	0.25	0.25	10.1
1540154	17L00014	215	220	SR03	15	Dry	Rock	WHI17000128	0.66	0.0025	1.2	5	2	35	0.05	1	3.1	262	1.4	0.25	0.25	6.3
1540155	17L00014	220	225	SR03	20	Dry	Rock	WHI17000128	3.23	0.0025	1.8	7	3.1	42	0.05	1.5	4.7	417	1.96	0.25	0.25	8.7
1540156	17L00014	225	230	SR03	20	Dry	Rock	WHI17000128	3.38	0.0025	1.7	4.5	3.5	34	0.05	1.3	3.6	361	1.48	0.25	0.25	8.3
1540157	17L00014	230	235	SR03	20	Dry	Rock	WHI17000128	3.87	0.0025	1.9	8.1	3.6	44	0.05	1.5	4.4	457	1.81	0.7	0.25	9.6
1540158	17L00014	235	240	SR03	20	Dry	Rock	WHI17000128		0.0025	1.7	9.6	3.1	41	0.05	1.4	4.6	418	1.87	0.25	0.25	9.8
1540158	17L00014	235	240	SR03	20	Dry	DUP	WHI17000128	3.46	0.0025	1.7	9.7	3.2	41	0.05	1.7	5.2	422	1.94	0.5	0.25	9.7
1540159	17L00014	240	245	SR03	20	Dry	Rock	WHI17000128	3.78	0.0025	2.9	9.3	3.8	44	0.05	1.6	4.8	621	1.84	0.25	0.25	9.3
1540161	17L00014	245	250	SR03	20	Dry	Rock	WHI17000128	3.5	0.0025	1.5	6.1	2.8	43	0.05	1.6	4.6	550	1.8	0.25	0.25	8
1540162	17L00014	250	255	SR03	20	Dry	Rock	WHI17000128	3.88	0.0025	1.7	6.8	3.6	46	0.05	2.1	5.8	571	2.25	0.25	0.25	11.4
1540163	17L00014	255	260	SR03	20	Dry	Rock	WHI17000128	3.8	0.0025	2.9	5.1	1.9	41	0.05	1.6	4.9	516	1.96	0.25	0.25	10.3
1540164	17L00014	260	265	SR03	20	Dry	Rock	WHI17000128	3.92	0.0025	2.5	5.2	2.1	50	0.05	2.1	5	534	2.03	0.25	0.25	9.6
1540165	17L00014	265	270	SR03	20	Dry	Rock	WHI17000128	3.94	0.0025	5.4	5.2	2	45	0.05	1.5	5.1	637	2.07	0.25	0.25	8.8
1540166	17L00014	270	275	SR03	20	Dry	Rock	WHI17000128	4.14	0.0025	4.4	6.7	2	45	0.05	2.5	6.1	582	2.25	0.25	0.25	8.8
1540167	17L00014	275	280	SR03	20	Dry	Rock	WHI17000128	3.64	0.0025	3.6	4.6	1.7	40	0.05	1.7	4.8	510	1.96	0.25	0.25	9.3
1540168	17L00014	280	285	SR03	20	Dry	Rock	WHI17000128	3.87	0.0025	6.8	7.1	2.3	40	0.05	1.5	5.3	580	2.11	0.25	0.25	10.2
1540169	17L00014	285	290	SR03	20	Dry	Rock	WHI17000128	3.21	0.0025	4.7	10	3.3	38	0.05	2	6.5	636	2.23	0.25	0.25	9.1
1540170	17L00014	290	295	SR03	20	Dry	Rock	WHI17000128	3.33	0.0025	2.7	6.3	3.2	41	0.05	1.8	5.3	538	2.23	0.25	0.5	10.6
1540171	17L00014	295	300	SR03	20	Dry	Rock	WHI17000128	3.58	0.0025	9.1	4.2	2	35	0.05	1.6	4.7	498	1.91	0.25	0.7	10.2

Appendix II

sample	sr_pi	cd_ppr	sbppm	bippm	vppm	capct	p_pct	la_cr	mg_pct	ba_pct	tipct	bppml	al_pct	na_pct	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga	seppm	teppr	
1540131	84	0.05	0.1	0.05	18	2.68	0.032	31	5	0.17	150	0.034	10	0.65	0.016	0.24	0.3	0.005	5.4	0.05	0.025	3	0.25	0.1
1540132	36	0.05	0.1	0.05	24	1.56	0.041	27	5	0.22	114	0.057	10	0.82	0.009	0.36	0.3	0.005	6.2	0.1	0.025	4	0.25	0.1
1540133	48	0.05	0.1	0.05	20	1.01	0.037	24	6	0.35	99	0.08	10	0.88	0.055	0.43	0.8	0.005	3.3	0.1	0.025	4	0.25	0.1
1540134	54	0.05	0.05	0.05	16	1.58	0.026	22	6	0.22	108	0.04	10	0.68	0.039	0.26	0.5	0.005	3.5	0.05	0.025	3	0.25	0.1
1540135	89	0.05	0.2	0.05	18	2.76	0.033	26	6	0.15	62	0.022	10	0.49	0.024	0.18	0.4	0.005	4.3	0.05	0.025	2	0.25	0.1
1540136	72	0.2	0.1	0.05	18	1.27	0.034	38	6	0.32	95	0.064	10	0.78	0.045	0.34	0.6	0.005	3.5	0.1	0.025	4	0.25	0.1
1540137	70	0.2	0.05	0.1	22	1.09	0.036	30	7	0.4	122	0.12	10	0.97	0.057	0.55	1	0.005	4.5	0.2	0.025	5	0.25	0.1
1540138	45	0.1	0.1	0.05	20	0.82	0.03	27	6	0.37	79	0.08	10	0.89	0.054	0.4	0.9	0.005	4	0.1	0.025	4	0.25	0.1
1540139																								
1540139	78	0.3	0.2	0.2	19	1.75	0.033	29	5	0.28	130	0.03	10	0.69	0.033	0.24	0.5	0.005	4	0.05	0.025	3	0.25	0.1
1540141	60	0.1	0.2	0.3	16	1.2	0.032	28	5	0.15	106	0.024	10	0.53	0.034	0.2	0.5	0.005	3.7	0.05	0.025	2	0.25	0.1
1540141	60	0.2	0.2	0.3	17	1.21	0.032	27	6	0.15	110	0.024	10	0.53	0.035	0.2	0.5	0.005	3.7	0.05	0.025	2	0.25	0.1
1540142	64	0.05	0.2	0.2	9	1.49	0.026	25	4	0.12	156	0.016	10	0.39	0.003	0.19	0.5	0.005	2.5	0.05	0.025	1	0.25	0.1
1540143	60	0.05	0.05	0.05	9	1.41	0.03	25	5	0.19	43	0.021	10	0.52	0.013	0.21	0.5	0.005	2.5	0.05	0.025	2	0.25	0.1
1540144	44	0.05	0.1	0.05	8	1.14	0.026	30	6	0.19	40	0.023	10	0.37	0.012	0.18	0.8	0.005	2.6	0.05	0.025	2	0.25	0.1
1540145	40	0.05	0.05	0.05	12	0.89	0.025	28	6	0.22	55	0.055	10	0.57	0.03	0.32	1.6	0.01	3.2	0.1	0.025	3	0.25	0.1
1540146	68	0.05	0.05	0.05	11	1.25	0.029	31	6	0.35	71	0.034	10	0.46	0.025	0.24	0.9	0.005	3	0.05	0.025	2	0.25	0.1
1540147	60	0.05	0.05	0.05	19	1.39	0.033	27	7	0.43	107	0.053	10	0.8	0.03	0.39	0.8	0.005	3.7	0.1	0.025	4	0.25	0.1
1540148	75	0.05	0.1	0.05	23	1.47	0.032	38	7	0.31	59	0.056	10	0.67	0.03	0.34	0.8	0.005	4.2	0.05	0.025	3	0.25	0.1
1540149	81	0.05	0.1	0.05	27	1.5	0.04	29	7	0.32	67	0.06	10	0.76	0.039	0.37	0.5	0.005	5.5	0.1	0.025	4	0.25	0.1
1540150	93	0.05	0.1	0.05	24	1.74	0.037	26	7	0.33	62	0.026	10	0.48	0.03	0.2	0.4	0.005	4.3	0.05	0.025	2	0.25	0.1
1540151	52	0.05	0.1	0.05	31	0.83	0.037	28	8	0.44	103	0.11	10	0.98	0.051	0.59	0.7	0.005	5.3	0.2	0.025	5	0.25	0.1
1540152	62	0.05	0.1	0.05	27	1.43	0.032	28	7	0.4	118	0.081	10	0.84	0.031	0.46	0.6	0.005	5.1	0.1	0.025	4	0.25	0.1
1540153	48	0.05	0.2	0.05	23	0.93	0.035	26	7	0.34	89	0.056	10	0.77	0.037	0.34	0.4	0.005	4.3	0.1	0.025	4	0.25	0.1
1540153	50	0.05	0.2	0.05	23	0.96	0.036	26	7	0.35	90	0.059	10	0.78	0.039	0.35	0.4	0.005	4.7	0.1	0.025	4	0.25	0.1
1540154	35	0.05	0.1	0.05	16	0.66	0.025	17	5	0.21	50	0.034	10	0.51	0.031	0.22	0.2	0.005	3	0.05	0.025	3	0.25	0.1
1540155	58	0.05	0.2	0.05	23	1.07	0.034	25	7	0.27	70	0.047	10	0.71	0.039	0.3	0.5	0.005	4.3	0.05	0.025	4	0.25	0.1
1540156	64	0.05	0.1	0.05	18	1.16	0.031	24	7	0.26	53	0.029	10	0.5	0.02	0.22	0.4	0.005	4.1	0.05	0.025	3	0.25	0.1
1540157	54	0.05	0.05	0.05	22	1.01	0.035	26	7	0.2	68	0.025	10	0.53	0.031	0.21	0.3	0.005	5	0.05	0.025	2	0.25	0.1
1540158	44	0.05	0.2	0.05	23	0.8	0.033	29	8	0.26	45	0.018	10	0.6	0.031	0.17	0.4	0.005	4.5	0.05	0.025	3	0.25	0.1
1540158	45	0.05	0.2	0.05	25	0.82	0.035	29	8	0.26	44	0.017	10	0.59	0.031	0.17	0.4	0.005	4.2	0.05	0.025	3	0.25	0.1
1540159	51	0.05	0.1	0.05	22	0.79	0.035	27	8	0.2	135	0.029	10	0.55	0.033	0.23	0.4	0.005	3.7	0.05	0.025	3	0.25	0.1
1540161	82	0.05	0.05	0.05	26	1.38	0.031	21	8	0.6	204	0.085	10	0.76	0.031	0.49	0.8	0.005	3.9	0.1	0.025	4	0.25	0.1
1540162	73	0.05	0.1	0.05	35	1.07	0.043	35	9	0.54	184	0.121	10	1	0.034	0.64	1.3	0.005	5.5	0.2	0.025	5	0.25	0.1
1540163	54	0.05	0.05	0.05	28	0.85	0.037	26	9	0.44	123	0.116	10	0.9	0.043	0.59	1.6	0.005	4.1	0.2	0.025	4	0.25	0.1
1540164	45	0.05	0.6	0.05	27	0.88	0.034	26	9	0.44	110	0.098	10	0.95	0.048	0.55	1.2	0.005	3.6	0.2	0.025	4	0.25	0.1
1540165	55	0.05	0.05	0.05	25	1.2	0.037	27	9	0.54	91	0.078	10	0.91	0.037	0.45	1	0.005	3.6	0.1	0.025	5	0.25	0.1
1540166	54	0.05	0.05	0.05	32	0.97	0.044	26	10	0.57	153	0.11	10	1.08	0.054	0.62	1.5	0.005	4.1	0.2	0.025	5	0.25	0.1
1540167	46	0.05	0.05	0.05	27	0.82	0.031	26	10	0.42	105	0.111	10	0.93	0.04	0.57	1.8	0.005	3.5	0.2	0.025	4	0.25	0.1
1540168	77	0.05	0.05	0.05	26	1.35	0.034	32	9	0.43	118	0.102	10	0.94	0.044	0.55	1.5	0.005	4	0.2	0.025	5	0.25	0.1
1540169	89	0.05	0.1	0.05	34	1.72	0.045	27	9	0.44	217	0.098	10	0.9	0.028	0.55	1	0.005	5	0.2	0.025	4	0.25	0.1
1540170	81	0.05	0.1	0.05	33	1.36	0.043	31	8	0.44	157	0.083	10	0.95	0.034	0.52	0.8	0.005	5	0.2	0.025	4	0.25	0.1
1540171	58	0.05	0.1	0.05	24	1.12	0.036	28	9	0.45	73	0.078	10	0.78	0.035	0.41	1.4	0.005	3.6	0.1	0.025	4	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pc	as_pp	au_ppl	th_pp
1540172	17L00014	300	305	SR03	20	Dry	Rock	WHI17000128	3.78	0.0025	7	5.2	2.3	30	0.05	1.7	5.3	531	2.02	0.25	0.7	9.2
1540173	17L00014	305	310	SR03	20	Dry	Rock	WHI17000128	3.51	0.0025	3.1	5.1	2.2	38	0.05	1.4	5	501	2.03	0.25	0.25	8.5
1540174	17L00014	310	315	SR03	20	Dry	Rock	WHI17000128	3.11	0.0025	2.4	3.6	3.1	30	0.05	1.6	4.7	685	1.87	0.25	0.25	8.5
1540175	17L00014	315	320	SR03	20	Dry	Rock	WHI17000128	4.09	0.0025	3	4.6	3	41	0.05	2.2	5.4	574	2.05	0.25	0.25	10.3
1540176	17L00014	320	325	SR03	20	Dry	Rock	WHI17000128	3.24	0.0025	2	5.5	2.3	35	0.05	1.7	5.2	500	1.97	0.25	0.25	10.4
1540177	17L00014	325	330	SR03	20	Dry	Rock	WHI17000128	3.4	0.0025	1.8	3.9	2.6	30	0.05	1.4	4.3	449	1.77	0.25	0.25	9
1540120	17L00014			SR03			CDN-BL-10	WHI17000127	0.12	0.0025	2.1	25.5	2.3	41	0.3	23	10.4	382	2.25	4.3	6.8	0.9
1540140	17L00014			SR03			CDN-GS-5U	WHI17000128	0.08	5.332	8.1	203	22.5	77	0.9	15	11.4	554	4.25	11.6	6136	2.8
1540160	17L00014			SR03			CDN-BL-10	WHI17000128		0.0025												
1540160	17L00014			SR03			CDN-BL-10	WHI17000128	0.12	0.0025	2.2	24.9	2.4	43	0.3	22.9	9.7	384	2.35	4.8	0.25	0.9
1540178	17L00015	0	5	SR03	20	Dry	Rock	WHI17000134	3.9	0.015	1.2	6.7	2.9	35	0.05	3.8	4.3	545	1.75	0.6	12.7	10.5
1540179	17L00015	5	10	SR03	16	Dry	Rock	WHI17000134	3.35	0.0025	1.5	3.4	1.9	37	0.05	2.5	3.9	517	1.76	0.25	3.9	11.3
1540181	17L00015	10	15	SR03	20	Dry	Rock	WHI17000134	4.13	0.0025	1.2	2.5	2.4	36	0.05	2.2	4.4	466	1.81	0.25	1.1	11
1540182	17L00015	15	20	SR03	27	Dry	Rock	WHI17000134	4.37	0.0025	1.5	2	3.8	37	0.05	2.1	4	558	1.74	0.25	1.7	10.6
1540183	17L00015	20	25	SR03	18	Dry	Rock	WHI17000134	3.75	0.0025	1.2	3.4	3	25	0.05	1.7	2.6	377	1.16	0.25	2.4	11.8
1540184	17L00015	25	30	SR03	20	Dry	Rock	WHI17000134	4.53	0.0025	1.3	3	3.3	33	0.05	2.9	3.2	417	1.43	0.25	1.8	12.3
1540185	17L00015	30	35	SR03	20	Dry	Rock	WHI17000134	3.61	0.005	1.3	14.9	4.7	41	0.05	1.7	2.9	510	1.47	0.25	4.3	11.8
1540186	17L00015	35	40	SR03	20	Dry	Rock	WHI17000134	4.3	0.005	0.9	21.6	4.2	34	0.05	1.4	2.4	391	1.23	0.25	4.3	12.3
1540187	17L00015	40	45	SR03	20	Dry	Rock	WHI17000134	4.79	0.0025	1.7	13.6	4.6	49	0.05	2.1	2.7	466	1.33	0.25	1.1	11.1
1540188	17L00015	45	50	SR03	20	Dry	Rock	WHI17000128	4	0.0025	0.9	9.7	4.4	35	0.05	1.1	2.5	421	1.23	0.25	0.25	13.9
1540189	17L00015	50	55	SR03	20	Dry	Rock	WHI17000128	3.99	0.0025	1	7.5	4.7	32	0.05	1.1	2.5	469	1.24	0.25	0.25	11.9
1540190	17L00015	55	60	SR03	20	Dry	Rock	WHI17000128	4.21	0.0025	0.7	17.6	3	34	0.05	1.4	2.5	422	1.23	0.25	0.25	8.3
1540191	17L00015	60	65	SR03	20	Dry	Rock	WHI17000128	4.19	0.0025	1.2	8.4	3.9	36	0.05	1.2	2.5	522	1.39	0.25	0.25	13
1540192	17L00015	65	70	SR03	20	Dry	Rock	WHI17000128	3.87	0.0025	1	8.3	2.4	37	0.05	1.5	2.6	464	1.35	0.25	0.25	14.4
1540193	17L00015	70	75	SR03	20	Dry	Rock	WHI17000134	3.77	0.0025	1.5	2.6	4.9	44	0.05	1.8	3.1	666	1.73	0.6	1.1	12.5
1540194	17L00015	75	80	SR03	20	Dry	Rock	WHI17000134	4.45	0.0025	3.8	5.7	3.1	36	0.05	1.7	3.3	486	1.54	0.25	0.25	10.6
1540195	17L00015	80	85	SR03	20	Dry	Rock	WHI17000134	4.56	0.0025	1.5	5	4	38	0.05	1.8	4.6	508	1.93	0.8	1.2	9.4
1540196	17L00015	85	90	SR03	20	Dry	Rock	WHI17000134	4.48	0.0025	1.3	2.6	2.9	44	0.05	1.6	5.2	595	2.06	0.7	0.8	10.7
1540197	17L00015	90	95	SR03	20	Dry	Rock	WHI17000134	4.05	0.0025	1	3.4	3.4	38	0.05	1.8	4.8	552	1.92	0.25	0.25	11.8
1540198	17L00015	95	100	SR03	20	Dry	REP	WHI17000134			1.9	2.4	3.3	38	0.05	1.8	4.7	620	1.98	0.25	0.25	10.4
1540198	17L00015	95	100	SR03	20	Dry	Rock	WHI17000134	3.69	0.0025	1.8	3.1	3.4	38	0.05	1.8	4.7	610	1.97	0.25	0.25	10.6
1540199	17L00015	100	105	SR03	20	Dry	Rock	WHI17000134	3.46	0.0025	4.2	4.1	3.8	30	0.05	1.6	3.6	463	1.68	0.25	0.25	11.4
1540201	17L00015	105	110	SR03	20	Dry	Rock	WHI17000134	3.42	0.0025	9.7	4.6	3.9	30	0.05	1.6	2.9	428	1.4	0.25	0.25	13.8
1540202	17L00015	110	115	SR03	20	Dry	DUP	WHI17000134	3.84	0.0025	4.1	6.2	3.5	27	0.05	1.8	3.2	342	1.46	0.25	0.25	13.6
1540202	17L00015	110	115	SR03	20	Dry	Rock	WHI17000134		0.0025	4.2	6.2	3.5	27	0.05	1.8	3.2	343	1.46	0.6	0.25	13.6
1540203	17L00015	115	120	SR03	20	Dry	Rock	WHI17000134	4.02	0.0025	3.9	5.9	3.7	50	0.05	2.4	5.8	520	2.36	0.6	0.25	8.4
1540204	17L00015	120	125	SR03	20	Dry	Rock	WHI17000134	3.56	0.0025	1.6	2.5	2.6	37	0.05	2.1	4.5	419	1.91	0.25	0.25	9.3
1540205	17L00015	125	130	SR03	20	Dry	Rock	WHI17000134	3.95	0.0025	3.8	2.5	4.8	41	0.05	2	5.1	622	2.15	0.25	0.25	10.4
1540206	17L00015	130	135	SR03	20	Dry	Rock	WHI17000134	3.8	0.0025	1.7	2.9	2	39	0.05	1.9	4.4	452	1.75	0.25	0.25	8.7
1540207	17L00015	135	140	SR03	20	Dry	Rock	WHI17000134	4.53	0.0025	1.6	4.4	4.3	50	0.05	2.3	5.8	578	2.19	0.25	0.25	9.8
1540208	17L00015	140	145	SR03	20	Dry	Rock	WHI17000134	4.23	0.0025	1.6	7.1	3	40	0.05	2.4	5.6	548	2.19	0.25	0.7	9.8
1540209	17L00015	145	150	SR03	20	Dry	Rock	WHI17000134	4.53	0.0025	2.1	4.3	5	36	0.05	2.2	5.3	540	2.02	0.6	0.25	9.3
1540210	17L00015	150	155	SR03	20	Dry	Rock	WHI17000134	4.29	0.025	2.9	2.8	4.5	30	0.05	1.1	4	729	1.45	0.25	19.7	8

Appendix II

sample	sr_pi	cd_ppr	sbbpm	bippm	vppm	capct	p_pct	la_cr	mg_pct	ba_pct	tipct	bppal	al_pct	na_pct	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga	seppm	teppr	
1540172	65	0.05	0.1	0.05	28	1.34	0.035	28	9	0.5	82	0.084	10	0.89	0.042	0.46	1.3	0.005	3.6	0.1	0.025	5	0.25	0.1
1540173	51	0.05	0.1	0.05	26	0.92	0.032	23	10	0.47	67	0.079	10	0.89	0.034	0.42	1.5	0.005	3.5	0.1	0.025	5	0.25	0.1
1540174	103	0.05	0.05	0.05	22	2.48	0.033	26	9	0.36	132	0.065	10	0.8	0.033	0.38	1	0.005	3.5	0.1	0.025	4	0.25	0.1
1540175	84	0.05	0.2	0.05	26	1.61	0.037	29	9	0.41	76	0.08	10	0.78	0.032	0.4	1.3	0.005	4.3	0.1	0.025	4	0.25	0.1
1540176	63	0.05	0.2	0.05	24	0.99	0.035	31	10	0.37	88	0.071	10	0.87	0.039	0.39	1.2	0.005	3.9	0.1	0.025	4	0.25	0.1
1540177	70	0.05	0.1	0.05	22	1.37	0.03	24	8	0.39	118	0.047	10	0.62	0.027	0.31	0.7	0.005	4	0.05	0.025	3	0.25	0.1
1540120	36	0.2	0.3	0.05	54	0.73	0.058	4	29	0.73	85	0.121	10	1.42	0.074	0.13	11.7	0.005	4.4	0.05	0.025	4	0.25	0.1
1540140	72	0.2	4	0.5	99	0.91	0.06	8	19	0.86	136	0.133	10	1.69	0.181	0.23	5.2	0.17	3.2	0.05	0.025	5	0.25	0.1
1540160																								
1540160	39	0.2	0.3	0.05	56	0.78	0.057	4	31	0.74	95	0.122	10	1.48	0.074	0.13	12.5	0.01	4.8	0.05	0.025	5	0.25	0.1
1540178	10	0.05	0.05	0.05	21	0.26	0.034	28	6	0.34	132	0.094	10	0.87	0.026	0.46	0.8	0.005	4.1	0.2	0.025	4	0.25	0.1
1540179	16	0.05	0.05	0.05	21	0.49	0.031	26	6	0.37	141	0.102	10	0.82	0.043	0.49	1	0.005	4.3	0.1	0.025	4	0.25	0.1
1540181	24	0.05	0.05	0.05	22	0.7	0.034	27	5	0.34	109	0.101	10	0.84	0.036	0.51	1	0.005	4.1	0.1	0.025	4	0.25	0.1
1540182	41	0.05	0.05	0.05	20	1.82	0.032	28	4	0.24	112	0.08	10	0.73	0.025	0.41	0.8	0.005	4.5	0.1	0.025	4	0.25	0.1
1540183	22	0.05	0.05	0.05	10	0.85	0.025	33	4	0.12	85	0.036	10	0.49	0.039	0.24	1.4	0.005	2.7	0.05	0.025	2	0.25	0.1
1540184	14	0.05	0.05	0.05	13	0.45	0.032	30	6	0.22	98	0.062	10	0.68	0.033	0.34	0.9	0.005	3.6	0.1	0.025	4	0.25	0.1
1540185	17	0.05	0.05	0.2	13	1.06	0.025	35	3	0.18	128	0.041	10	0.69	0.018	0.27	0.6	0.005	3.6	0.1	0.025	3	0.25	0.1
1540186	18	0.05	0.05	0.6	10	0.73	0.023	35	4	0.14	81	0.047	10	0.63	0.032	0.29	0.7	0.005	2.8	0.1	0.025	3	0.25	0.1
1540187	44	0.3	0.05	0.5	10	1.45	0.026	32	5	0.17	112	0.046	10	0.59	0.028	0.28	0.6	0.005	2.8	0.1	0.025	3	0.25	0.1
1540188	40	0.05	0.05	0.3	11	1.08	0.021	29	3	0.15	91	0.039	10	0.51	0.04	0.25	0.9	0.005	3.1	0.05	0.025	3	0.25	0.1
1540189	43	0.1	0.05	0.2	10	1.47	0.024	30	4	0.12	93	0.034	10	0.47	0.025	0.22	0.8	0.005	3	0.05	0.025	2	0.25	0.1
1540190	28	0.05	0.05	0.2	11	1.02	0.028	24	4	0.15	85	0.039	10	0.53	0.041	0.26	0.9	0.005	2.6	0.1	0.025	3	0.25	0.1
1540191	22	0.05	0.1	0.3	13	0.96	0.027	35	4	0.14	103	0.039	10	0.48	0.027	0.24	0.7	0.005	3.9	0.1	0.025	3	0.25	0.1
1540192	11	0.05	0.05	0.1	12	0.22	0.027	30	4	0.2	92	0.065	10	0.69	0.038	0.34	1.1	0.005	3.8	0.1	0.025	4	0.25	0.1
1540193	64	0.05	0.05	0.05	12	2.56	0.028	31	5	0.21	106	0.025	10	0.64	0.028	0.21	0.5	0.005	3.7	0.05	0.025	3	0.25	0.1
1540194	52	0.05	0.05	0.05	14	1.49	0.029	30	5	0.22	85	0.051	10	0.64	0.031	0.31	0.5	0.005	3.2	0.1	0.025	3	0.25	0.1
1540195	65	0.05	0.1	0.05	19	1.65	0.036	28	5	0.24	80	0.029	10	0.64	0.03	0.23	0.4	0.005	3.9	0.05	0.025	3	0.25	0.1
1540196	43	0.05	0.05	0.05	20	0.92	0.033	30	5	0.38	109	0.054	10	0.82	0.038	0.32	0.4	0.005	3.7	0.05	0.025	4	0.25	0.1
1540197	57	0.05	0.05	0.05	23	1.25	0.038	32	5	0.43	106	0.076	10	0.99	0.026	0.43	0.5	0.005	4.2	0.1	0.025	5	0.25	0.1
1540198	38	0.05	0.05	0.05	24	1.27	0.036	28	5	0.33	125	0.087	10	0.85	0.021	0.47	0.5	0.005	4.1	0.1	0.025	4	0.25	0.1
1540198	37	0.05	0.05	0.05	24	1.27	0.035	28	5	0.33	127	0.087	10	0.86	0.021	0.46	0.5	0.005	4.1	0.1	0.025	4	0.25	0.1
1540199	30	0.05	0.05	0.05	15	1.31	0.024	27	5	0.17	79	0.038	10	0.55	0.027	0.24	0.6	0.005	2.7	0.05	0.025	3	0.25	0.1
1540201	39	0.05	0.05	0.2	12	1.14	0.019	27	5	0.21	60	0.047	10	0.62	0.032	0.3	0.6	0.005	2.4	0.2	0.025	3	0.25	0.1
1540202	34	0.05	0.05	0.3	19	0.75	0.024	22	6	0.2	68	0.05	10	0.62	0.033	0.3	1.1	0.005	2.5	0.1	0.025	3	0.25	0.1
1540202	34	0.05	0.05	0.3	19	0.75	0.026	23	6	0.2	66	0.05	10	0.63	0.034	0.31	1.1	0.005	2.6	0.1	0.025	3	0.25	0.1
1540203	41	0.05	0.05	0.05	36	1.07	0.054	27	6	0.5	96	0.046	10	0.93	0.028	0.32	0.4	0.005	4.5	0.05	0.025	5	0.25	0.1
1540204	37	0.05	0.1	0.05	28	0.87	0.04	27	6	0.37	85	0.083	10	0.86	0.033	0.43	0.5	0.005	4.3	0.1	0.025	4	0.25	0.1
1540205	59	0.05	0.05	0.05	29	2.54	0.032	34	6	0.33	116	0.106	10	0.84	0.008	0.5	0.6	0.005	5	0.1	0.025	4	0.25	0.1
1540206	35	0.05	0.05	0.05	23	0.95	0.032	24	6	0.44	140	0.098	10	0.87	0.032	0.53	0.7	0.005	3.5	0.1	0.025	4	0.25	0.1
1540207	51	0.05	0.1	0.05	30	1.09	0.038	30	7	0.44	123	0.081	10	0.89	0.036	0.43	0.6	0.005	4.9	0.1	0.025	5	0.25	0.1
1540208	48	0.05	0.05	0.05	32	1	0.037	30	8	0.46	122	0.114	10	0.99	0.034	0.58	0.9	0.005	4.3	0.2	0.025	5	0.25	0.1
1540209	89	0.05	0.1	0.05	25	2.01	0.035	31	6	0.25	111	0.056	10	0.79	0.015	0.37	0.4	0.005	5.1	0.1	0.025	4	0.25	0.1
1540210	79	0.05	0.05	0.05	12	2.61	0.031	25	3	0.13	277	0.004	10	0.53	0.005	0.19	0.1	0.005	3.9	0.05	0.025	2	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pc	as_pp	au_ppl	th_pp	
1540211	17L00015	155	160	SR03	20	Dry	Rock	WHI17000134	4.52	0.007	1.1	4.3	3.5	34	0.05	1.4	4.1	464	1.61	0.25	5.2	8.8	
1540212	17L00015	160	165	SR03	20	Dry	Rock	WHI17000134	4.12	0.0025	1.1	3.7	3.6	37	0.05	1.5	4.1	517	1.78	0.25	0.25	8.7	
1540213	17L00015	165	170	SR03	20	Dry	Rock	WHI17000128	4.41	0.0025	1.1	3.9	4.5	37	0.05	1.1	4.4	544	1.7	0.25	0.25	9.1	
1540214	17L00015	170	175	SR03	20	Dry	Rock	WHI17000128	4.57	0.0025	1.4	9.6	3.7	39	0.05	1.5	4.9	442	1.8	0.25	0.25	10.1	
1540215	17L00015	175	180	SR03	20	Dry	Rock	WHI17000128	4.53	0.0025	1.5	10.8	3.3	42	0.05	2.6	4.4	440	1.94	0.25	0.8	8.9	
1540216	17L00015	180	185	SR03	20	Dry	Rock	WHI17000128	4.23	0.005	2.1	5.6	3.7	54	0.05	1.9	6.6	815	2.04	0.6	2.1	10.2	
1540216	17L00015	180	185	SR03	20	Dry	REP	WHI17000128			1.9	5.1	3.6	50	0.05	1.7	6.4	752	2.04	0.6	2.9	9.6	
1540217	17L00015	185	190	SR03	20	Dry	Rock	WHI17000128	4.27	0.0025	1.5	4.1	8.6	52	0.05	2.6	7.9	627	2.19	0.25	2	8.6	
1540218	17L00015	190	195	SR03	20	Dry	Rock	WHI17000134	4.37	0.0025	1.7	5.1	4.5	43	0.05	1.8	4.4	480	1.83	0.25	0.25	9.4	
1540219	17L00015	195	200	SR03	20	Dry	Rock	WHI17000134	3.18	0.0025	3.2	5.1	3.5	39	0.05	2	4.5	582	1.92	0.25	0.25	8.7	
1540221	17L00015	200	205	SR03	20	Dry	Rock	WHI17000134	4.96	0.007	2.3	4	3.1	41	0.05	1.8	4.8	502	1.88	0.25	0.5	7.6	
1540222	17L00015	205	210	SR03	20	Dry	Rock	WHI17000134	4.5	0.0025	2	4.4	2.8	44	0.05	2.2	5.2	506	2.05	0.25	0.25	7.1	
1540223	17L00015	210	215	SR03	20	Dry	Rock	WHI17000134	4.52	0.0025	2.4	6.7	3.2	43	0.05	2.7	6.4	599	2.29	0.25	0.25	8.2	
1540224	17L00015	215	220	SR03	20	Dry	REP	WHI17000134	4.31	0.0025	1.5	5	2.7	38	0.05	2.6	5	491	2.07	0.25	0.25	8.6	
1540224	17L00015	215	220	SR03	20	Dry	Rock	WHI17000134		0.0025													
1540225	17L00015	220	225	SR03	20	Dry	Rock	WHI17000134	4.59	0.0025	1.6	5	2.2	33	0.05	2.3	5.1	434	1.99	0.25	0.25	8.2	
1540226	17L00015	225	230	SR03	20	Dry	Rock	WHI17000134	4.57	0.0025	2.4	3.2	3.1	33	0.05	1.9	5.2	658	1.89	0.25	0.25	7.4	
1540227	17L00015	230	235	SR03	20	Dry	Rock	WHI17000134	4.18	0.0025	2.2	4.6	3.7	34	0.05	2.2	5.4	841	2.06	0.6	0.25	8.9	
1540228	17L00015	235	240	SR03	20	Dry	Rock	WHI17000134	4.43	0.0025	2.8	3	2.4	34	0.05	1.9	5	661	2.02	0.25	0.25	8.3	
1540229	17L00015	240	245	SR03	20	Dry	Rock	WHI17000134	5.08	0.0025	3	3.3	2.1	33	0.05	2	4.6	478	1.96	0.25	0.25	8.3	
1540230	17L00015	245	250	SR03	20	Dry	Rock	WHI17000134	4.1	0.0025	2.5	2.9	1.5	34	0.05	2	4.7	469	1.86	0.25	0.25	9.5	
1540231	17L00015	250	255	SR03	20	Dry	Rock	WHI17000134	3.95	0.0025	1.5	3.6	2.1	31	0.05	1.8	3.8	544	1.74	0.25	0.25	10.1	
1540232	17L00015	255	260	SR03	20	Dry	Rock	WHI17000134	5.04	0.0025	1.4	4.6	1.8	35	0.05	2	4.6	524	1.98	0.25	0.25	9.2	
1540233	17L00015	260	265	SR03	20	Dry	Rock	WHI17000134	4.72	0.0025	1.5	5.1	1.4	31	0.05	1.9	4.3	473	1.93	0.25	0.25	9	
1540234	17L00015	265	270	SR03	20	Dry	Rock	WHI17000134	5.15	0.0025	1.5	3.5	1.4	34	0.05	2	4.2	465	1.89	0.25	0.25	10.5	
1540235	17L00015	270	275	SR03	20	Dry	Rock	WHI17000134	3.67	0.0025	1.4	4.5	1.6	37	0.05	1.8	4.8	526	1.99	0.25	0.25	9.4	
1540236	17L00015	275	280	SR03	20	Dry	Rock	WHI17000134	3.91	0.0025	1.6	4.3	1	36	0.05	2	4.8	499	2.12	0.25	0.25	7.9	
1540237	17L00015	280	285	SR03	20	Dry	REP	WHI17000134			1.8	5.1	1.6	36	0.05	2.4	5.5	490	2.24	0.25	0.25	7.2	
1540237	17L00015	280	285	SR03	20	Dry	Rock	WHI17000134	3.98	0.0025	1.8	5	1.6	40	0.05	2.5	5.8	464	2.24	0.25	0.25	6.9	
1540238	17L00015	285	290	SR03	20	Dry	Rock	WHI17000134	4.15	0.0025	1.5	2.4	1.4	64	0.05	1.8	6.1	831	2.62	0.25	0.25	9	
1540239	17L00015	290	295	SR03	20	Dry	Rock	WHI17000134	4.09	0.0025	1.3	3.3	2.4	35	0.05	2.2	5.1	560	2.09	0.25	0.25	9.7	
1540241	17L00015	295	300	SR03	20	Dry	DUP	WHI17000134		0.009	1.8	4.5	2	28	0.05	1.8	3.7	422	1.64	0.25	0.25	11.1	
1540241	17L00015	295	300	SR03	20	Dry	Rock	WHI17000134	3.94	0.0025	1.8	4.7	1.9	29	0.05	1.9	3.8	428	1.63	0.25	0.25	11	
1540242	17L00015	300	305	SR03	20	Dry	Rock	WHI17000134	4.25	0.0025	2.5	4.5	2.9	38	0.05	2.8	4.8	495	1.99	0.25	0.25	10	
1540243	17L00015	305	310	SR03	20	Dry	Rock	WHI17000134	3.42	0.0025	2.2	4	3.6	37	0.05	2.7	4.7	489	1.91	1	0.25	9.8	
1540244	17L00015	310	315	SR03	20	Dry	REP	WHI17000134	3.51	0.0025	2.9	3.4	2.4	35	0.05	2	4.3	499	1.93	1.8	0.25	10.2	
1540244	17L00015	310	315	SR03	20	Dry	Rock	WHI17000134		0.0025													
1540245	17L00015	315	320	SR03	20	Dry	Rock	WHI17000134	3.54	0.0025	2.3	9	2.2	36	0.05	3.6	6.6	579	2.26	0.25	0.25	8.3	
1540246	17L00015	320	325	SR03	20	Dry	Rock	WHI17000134	3.36	0.0025	1.5	4.5	2.8	33	0.05	1.9	4.6	526	1.85	2.1	0.25	10.1	
1540247	17L00015	325	330	SR03	20	Dry	Rock	WHI17000134	4.07	0.0025	1.9	7	2.6	18	0.05	1.8	2.8	289	1.12	2.2	0.25	16	
1540180	17L00015			SR03			CDN-GS-P4F	WHI17000134	0.09	0.552	6.4	281	15.2	51	0.5	108.7	14.7	441	2.84	178.8	365.5	3.3	
1540200	17L00015			SR03			CDN-BL-10	WHI17000134	0.12	0.0025	2.5	24.3	2.4	43	0.3	23.2	9.9	401	2.38	4.5	0.25	0.9	
1540220	17L00015			SR03			CDN-GS-5U	WHI17000134	0.09	5.275	7.8	194	22.7	77	0.9	14.5	11.3	577	4.18	11.8	6112	2.9	

Appendix II

sample	sr_pct	cd_ppm	sbppm	bipm	vppm	capct	p_pct	la_cr	mg_pct	ba_pct	tipct	bppm	al_pct	na_pct	k_pct	w_ppm	hgppm	sc_ppm	tlppm	s_pct	ga	seppm	teppm	
1540211	94	0.05	0.05	0.05	17	1.94	0.032	26	5	0.19	53	0.017	10	0.56	0.018	0.17	0.2	0.005	4.4	0.05	0.025	3	0.25	0.1
1540212	106	0.05	0.05	0.05	22	1.97	0.034	26	5	0.24	75	0.043	10	0.65	0.022	0.26	0.3	0.005	4.4	0.05	0.025	3	0.25	0.1
1540213	113	0.05	0.05	0.05	20	2.42	0.034	27	5	0.27	64	0.036	10	0.72	0.025	0.26	0.3	0.005	4.5	0.05	0.025	4	0.25	0.1
1540214	72	0.05	0.05	0.05	23	1.46	0.032	29	5	0.38	87	0.06	10	0.91	0.036	0.38	0.4	0.005	4.1	0.1	0.025	5	0.25	0.1
1540215	58	0.05	0.05	0.05	29	1.3	0.034	27	8	0.38	122	0.067	10	0.95	0.049	0.41	0.5	0.005	4.2	0.1	0.025	5	0.25	0.1
1540216	62	0.05	0.05	0.05	30	0.76	0.034	27	6	0.48	206	0.097	10	1.25	0.048	0.5	0.5	0.005	4.5	0.1	0.025	6	0.25	0.1
1540216	60	0.05	0.05	0.05	29	0.76	0.033	25	5	0.48	192	0.094	10	1.24	0.047	0.5	0.4	0.005	4.7	0.1	0.025	6	0.25	0.1
1540217	48	0.1	0.05	0.05	26	0.78	0.034	26	9	0.37	132	0.067	10	0.96	0.042	0.4	0.4	0.005	4.8	0.05	0.025	5	0.25	0.1
1540218	57	0.05	0.05	0.05	24	1.03	0.033	24	7	0.35	126	0.067	10	0.72	0.034	0.33	0.7	0.005	4.2	0.1	0.025	4	0.25	0.1
1540219	81	0.05	0.1	0.05	24	1.84	0.037	25	7	0.26	124	0.06	10	0.75	0.019	0.32	0.6	0.005	4.3	0.1	0.025	4	0.25	0.1
1540221	53	0.05	0.05	0.05	24	1.37	0.032	23	8	0.36	96	0.075	10	0.81	0.03	0.42	0.7	0.005	3.8	0.1	0.025	4	0.25	0.1
1540222	52	0.05	0.05	0.05	29	1.24	0.036	21	8	0.44	108	0.099	10	0.99	0.034	0.53	0.6	0.005	4.1	0.2	0.025	5	0.25	0.1
1540223	76	0.05	0.05	0.05	38	1.85	0.044	23	8	0.52	128	0.109	10	1.05	0.026	0.6	0.7	0.005	4.8	0.2	0.025	5	0.25	0.1
1540224	73	0.05	0.05	0.05	29	1.69	0.034	24	8	0.42	149	0.091	10	0.93	0.031	0.48	0.5	0.005	4.3	0.2	0.025	5	0.25	0.1
1540224																								
1540225	56	0.05	0.05	0.05	28	1.45	0.037	26	8	0.34	89	0.075	10	0.91	0.026	0.4	0.4	0.005	4.1	0.1	0.025	4	0.25	0.1
1540226	106	0.05	0.05	0.05	24	2.67	0.035	24	8	0.32	89	0.053	10	0.79	0.019	0.3	0.4	0.005	4.1	0.1	0.025	4	0.25	0.1
1540227	170	0.05	0.05	0.05	26	2.94	0.037	29	8	0.45	111	0.084	10	0.94	0.032	0.45	0.6	0.005	3.8	0.1	0.025	4	0.25	0.1
1540228	79	0.05	0.05	0.05	23	1.66	0.029	25	8	0.4	91	0.079	10	0.9	0.037	0.41	0.6	0.005	3.5	0.1	0.025	4	0.25	0.1
1540229	59	0.05	0.1	0.05	21	1.17	0.033	26	8	0.37	127	0.025	10	0.77	0.032	0.19	0.5	0.005	3.2	0.05	0.025	4	0.25	0.1
1540230	49	0.05	0.05	0.05	20	1	0.029	25	8	0.35	111	0.069	10	0.8	0.036	0.39	0.7	0.005	3.1	0.1	0.025	4	0.25	0.1
1540231	81	0.05	0.05	0.05	18	1.69	0.025	29	8	0.32	128	0.064	10	0.79	0.038	0.33	0.7	0.005	2.8	0.1	0.025	4	0.25	0.1
1540232	63	0.05	0.05	0.05	24	1.14	0.031	28	9	0.4	78	0.091	10	0.9	0.045	0.46	0.8	0.005	3.7	0.2	0.025	4	0.25	0.1
1540233	44	0.05	0.05	0.05	25	0.81	0.03	23	10	0.39	93	0.113	10	0.93	0.05	0.57	1.4	0.005	3.3	0.2	0.025	4	0.25	0.1
1540234	40	0.05	0.05	0.05	23	0.71	0.027	32	9	0.37	90	0.103	10	0.89	0.046	0.54	1.3	0.005	3	0.2	0.025	4	0.25	0.1
1540235	63	0.05	0.05	0.05	24	0.94	0.032	30	8	0.45	128	0.116	10	0.98	0.044	0.58	1.5	0.005	3.3	0.2	0.025	5	0.25	0.1
1540236	36	0.05	0.05	0.05	27	0.6	0.036	25	10	0.59	105	0.118	10	1.04	0.051	0.64	1.3	0.005	3.7	0.2	0.025	5	0.25	0.1
1540237	56	0.05	0.05	0.05	30	1.04	0.041	22	9	0.61	98	0.094	10	1.02	0.035	0.59	0.9	0.005	4.5	0.2	0.025	4	0.25	0.1
1540237	57	0.05	0.05	0.05	30	1.04	0.042	22	10	0.61	98	0.092	10	1.03	0.035	0.59	0.9	0.01	4.2	0.2	0.025	5	0.25	0.1
1540238	129	0.05	0.05	0.05	29	2.5	0.033	24	8	1.06	480	0.103	10	1.55	0.04	0.84	0.4	0.005	4	0.2	0.025	8	0.25	0.1
1540239	75	0.05	0.05	0.05	28	1.23	0.035	28	10	0.49	216	0.112	10	1.02	0.042	0.6	0.9	0.005	3.5	0.2	0.025	4	0.25	0.1
1540241	50	0.05	0.05	0.05	18	0.92	0.024	30	11	0.33	144	0.083	10	0.76	0.044	0.43	1.3	0.005	2.4	0.1	0.025	4	0.25	0.1
1540241	50	0.05	0.05	0.05	19	0.91	0.025	30	10	0.33	139	0.079	10	0.76	0.044	0.43	1.2	0.005	2.4	0.2	0.025	4	0.25	0.1
1540242	64	0.05	0.05	0.05	23	1.11	0.034	32	15	0.43	446	0.065	10	0.91	0.046	0.4	0.8	0.005	2.8	0.1	0.025	4	0.25	0.1
1540243	63	0.05	0.05	0.05	18	1.2	0.03	28	12	0.44	70	0.02	10	0.83	0.038	0.2	0.6	0.01	2.5	0.05	0.025	4	0.25	0.1
1540244	52	0.05	0.05	0.05	20	1.05	0.028	30	12	0.41	70	0.057	10	0.84	0.038	0.36	1	0.005	2.7	0.1	0.025	4	0.25	0.1
1540244																								
1540245	67	0.05	0.05	0.05	31	1.25	0.039	27	15	0.56	89	0.093	10	1.05	0.036	0.49	1.4	0.005	4.3	0.1	0.025	5	0.25	0.1
1540246	82	0.05	0.1	0.05	20	1.99	0.031	42	10	0.37	71	0.061	10	0.87	0.031	0.36	0.9	0.01	3.4	0.1	0.11	4	0.25	0.1
1540247	55	0.05	0.05	0.05	8	1.47	0.014	49	11	0.17	48	0.024	10	0.51	0.032	0.19	3.1	0.01	1.6	0.05	0.12	3	0.25	0.1
1540180	82	0.2	1.6	0.1	64	1.79	0.035	9	109	1.39	125	0.103	10	2.69	0.325	0.22	0.9	0.03	3.3	0.05	0.09	6	0.25	0.1
1540200	41	0.2	0.3	0.05	58	0.81	0.062	4	31	0.78	97	0.133	10	1.56	0.081	0.13	12.1	0.005	4.8	0.05	0.025	5	0.25	0.1
1540220	77	0.2	4.3	0.5	102	0.91	0.059	8	19	0.86	136	0.149	10	1.76	0.189	0.23	5.3	0.17	3.4	0.05	0.025	5	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pc	as_pp	au_ppl	th_pp
1540240	17L00015			SR03			CDN-BL-10	WHI17000134	0.14	0.0025	2.2	24.1	2.1	42	0.3	22.7	10.2	396	2.4	4.5	0.25	0.8
1540248	17L00016	0	5	SR03	20	Dry	Rock	WHI17000134	3.71	0.008	0.9	5.4	1.1	30	0.05	4.8	4.6	466	2.01	0.25	6.2	7.4
1540249	17L00016	5	10	SR03	20	Dry	Rock	WHI17000134	5.23	0.0025	0.8	6.6	1.9	36	0.05	2.7	4.6	489	1.96	0.25	2.9	7.4
1540250	17L00016	10	15	SR03	20	Dry	Rock	WHI17000134	5.39	0.0025	0.6	3.1	2.6	30	0.05	2	3.8	470	1.6	0.25	1.6	8.8
1540251	17L00016	15	20	SR03	20	Dry	Rock	WHI17000134	3.17	0.0025	0.6	2.2	2.2	35	0.05	1.8	3.8	483	1.75	0.25	0.5	9
1540252	17L00016	20	25	SR03	20	Dry	Rock	WHI17000134	3.97	0.0025	0.7	3	3.1	33	0.05	1.6	4	537	1.73	0.25	0.25	8.7
1540253	17L00016	25	30	SR03	20	Dry	Rock	WHI17000134	3.58	0.0025	1.3	2	3.8	28	0.05	2	3.6	612	1.65	0.25	0.25	8
1540254	17L00016	30	35	SR03	20	Dry	Rock	WHI17000134	4.06	0.0025	0.6	2.6	2	29	0.05	1.6	2.7	359	1.3	0.25	0.25	9.7
1540255	17L00016	35	40	SR03	20	Dry	Rock	WHI17000134	3.21	0.0025	0.7	1.6	1.4	45	0.05	1.5	2.6	475	1.58	0.25	0.25	9.4
1540256	17L00016	40	45	SR03	20	Dry	Rock	WHI17000134	3.27	0.0025	1.8	9.2	3.6	48	0.05	1.6	3.3	571	1.74	0.25	2.4	11.4
1540257	17L00016	45	50	SR03	20	Dry	Rock	WHI17000134	2.97	1.172	1.5	14.8	4.9	17	0.8	1.5	4.5	289	1.18	1.2	1048	10.6
1540258	17L00016	50	55	SR03	20	Dry	Rock	WHI17000134	3.79	1.24	2.4	4.4	3.2	15	0.7	1.7	6.1	252	1.52	0.25	1230	9.6
1540259	17L00016	55	60	SR03	20	Dry	Rock	WHI17000134	3.28	0.078	1.5	3.8	5.6	15	0.05	1.6	2.2	491	1.04	0.25	75.6	11.4
1540261	17L00016	60	65	SR03	20	Dry	Rock	WHI17000134	3.04	0.144	2.9	2.3	4.5	33	0.2	1.5	3.1	1160	1.6	0.25	135.3	14.7
1540262	17L00016	65	70	SR03	18	Dry	Rock	WHI17000134	3.18	0.237	1.2	1.2	3.2	25	0.1	1.7	2.8	495	1.28	0.6	189.4	10.2
1540263	17L00016	70	75	SR03	20	Dry	Rock	WHI17000134	3.67	0.02	0.9	5.7	6.7	23	0.05	1.7	3.2	380	1.65	1.8	18	9.9
1540264	17L00016	75	80	SR03	20	Dry	Rock	WHI17000134	4.12	0.009	0.7	4.5	4.1	26	0.05	1.5	3.8	389	1.64	0.8	6.9	10.1
1540265	17L00016	80	85	SR03	20	Dry	Rock	WHI17000134	3.03	0.0025	1.3	4	4.3	33	0.05	1.5	5	611	1.94	1	4.1	10.3
1540266	17L00016	85	90	SR03	20	Dry	Rock	WHI17000134	3.42	0.0025	1	5.6	4.4	35	0.05	2	4.3	451	1.67	0.25	4.1	10.2
1540267	17L00016	90	95	SR03	20	Dry	Rock	WHI17000134	3.92	0.005	1.3	3.9	4.6	35	0.05	2.1	4.6	638	1.87	0.7	4.1	9.8
1540268	17L00016	95	100	SR03	20	Dry	Rock	WHI17000134	4.41	0.0025	1	3.6	3.4	34	0.05	1.5	4.5	528	1.76	0.25	3.3	11.8
1540269	17L00016	100	105	SR03	20	Dry	Rock	WHI17000134	3.83	0.0025	1.4	7.7	3.9	36	0.05	5.5	3.9	479	1.68	0.25	1.8	12.9
1540270	17L00016	105	110	SR03	20	Dry	Rock	WHI17000134	3.69	0.0025	1.4	6.3	3.8	41	0.05	1.9	4.4	602	1.83	0.25	1.7	11.3
1540271	17L00016	110	115	SR03	20	Dry	Rock	WHI17000134	3.7	0.0025	1.7	6.7	5.8	33	0.05	1.6	2.8	483	1.4	0.5	2.3	13.1
1540272	17L00016	115	120	SR03	20	Dry	Rock	WHI17000134			4.9	34.1	4.3	28	0.3	1.6	2.9	358	1.34	0.8	3.3	11.5
1540272	17L00016	115	120	SR03	20	Dry	REP	WHI17000134	3.24	0.006	5.3	34.4	4.5	28	0.3	1.8	2.8	360	1.36	0.25	3.3	11.2
1540273	17L00016	120	125	SR03	20	Dry	Rock	WHI17000134	4.89	0.006	3	32.9	6.1	49	0.05	2.1	5.3	417	1.89	0.5	4.4	10.1
1540274	17L00016	125	130	SR03	20	Dry	Rock	WHI17000134	4.26	0.0025	3.9	66.9	11.6	43	0.1	1.9	3.2	332	1.36	0.25	1.4	12.2
1540275	17L00016	130	135	SR03	20	Dry	Rock	WHI17000134		0.0025	1.9	98.8	7.5	54	0.1	1.9	5	624	2.14	0.25	1.7	11.9
1540275	17L00016	130	135	SR03	20	Dry	DUP	WHI17000134	3.76	0.0025	1.7	101	7.5	50	0.1	1.8	5.2	631	2.15	0.25	1.9	11.7
1540276	17L00016	135	140	SR03	20	Dry	Rock	WHI17000134	3.93	0.0025	3	11.6	5.6	42	0.05	2.5	4.4	519	1.75	0.5	2.4	11.3
1540277	17L00016	140	145	SR03	20	Dry	Rock	WHI17000134	3.79	0.0025	2.7	12.8	2.9	33	0.05	2	3.1	389	1.42	0.25	2.5	13.1
1540278	17L00016	145	150	SR03	20	Dry	Rock	WHI17000134	4.02	0.0025	2.4	20.3	3.2	26	0.05	1.9	3	321	1.37	0.5	5.6	12.8
1540279	17L00016	150	155	SR03	20	Dry	Rock	WHI17000134	3.94	0.0025	2.2	12.9	9.1	45	0.05	2	3.1	408	1.52	0.25	0.6	10.1
1540281	17L00016	155	160	SR03	20	Dry	Rock	WHI17000134	4.44	0.0025	1.8	4.3	3.2	30	0.05	1.8	2.8	423	1.43	0.25	1.1	11.3
1540282	17L00016	160	165	SR03	20	Dry	Rock	WHI17000134	3.83	0.0025	2.1	3.1	2.4	24	0.05	2	3	411	1.4	0.25	1.2	13.1
1540283	17L00016	165	170	SR03	20	Dry	Rock	WHI17000134	3.99	0.0025	3.3	2.6	1.4	28	0.05	2	3.1	400	1.52	0.5	1.5	13.7
1540284	17L00016	170	175	SR03	20	Dry	Rock	WHI17000134	4.25	0.0025	1.9	5.3	2.9	40	0.05	1.9	4.4	550	1.9	0.25	1.2	11.9
1540285	17L00016	175	180	SR03	20	Dry	Rock	WHI17000134	3.97	0.0025	2.6	4.7	3.4	40	0.05	2.1	4.7	656	1.95	0.25	1.4	12.3
1540286	17L00016	180	185	SR03	20	Dry	Rock	WHI17000134	3.71	0.0025	2.2	7.3	5	61	0.05	2	4.9	798	1.93	0.25	0.8	11.8
1540287	17L00016	185	190	SR03	17	Dry	Rock	WHI17000134	2.43	0.0025	5.1	6.1	5.5	56	0.05	3.7	4.7	692	1.95	0.25	1	12.8
1540288	17L00016	190	195	SR03	11	Dry	Rock	WHI17000134	2.49	0.0025	5.1	7.3	6	53	0.05	2.5	5.5	996	1.97	0.6	1.4	11.8
1540260	17L00016			SR03			CDN-GS-P4F	WHI17000134	0.16	0.5	7.1	275	16	48	0.6	112.3	15.3	467	2.82	170.7	259.5	3.4

Appendix II

sample	sr_pi	cd_ppr	sbppm	bippm	vppm	capct	p_pct	la_cr	mg_pc	ba_pr	tipct	bppal	al_pc	na_pc	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga	seppm	teppr	
1540240	36	0.2	0.2	0.05	59	0.83	0.058	4	31	0.79	94	0.127	10	1.57	0.08	0.13	11.2	0.01	4.8	0.05	0.025	5	0.25	0.1
1540248	8	0.05	0.05	0.05	24	0.21	0.031	20	7	0.5	111	0.099	10	0.95	0.032	0.49	0.4	0.005	4.3	0.1	0.025	4	0.25	0.1
1540249	29	0.05	0.05	0.05	28	0.78	0.034	21	5	0.46	136	0.111	10	0.95	0.034	0.62	0.8	0.005	4.2	0.2	0.025	4	0.25	0.1
1540250	47	0.05	0.05	0.05	18	1.14	0.028	24	4	0.28	88	0.069	10	0.74	0.033	0.41	0.8	0.005	3.4	0.1	0.025	3	0.25	0.1
1540251	30	0.05	0.1	0.05	19	0.79	0.029	22	4	0.34	92	0.071	10	0.79	0.033	0.41	0.7	0.005	3.6	0.1	0.025	4	0.25	0.1
1540252	53	0.05	0.1	0.05	19	1.62	0.032	25	4	0.28	101	0.062	10	0.8	0.024	0.4	0.5	0.005	4.2	0.1	0.025	4	0.25	0.1
1540253	49	0.05	0.05	0.05	18	2.53	0.037	26	4	0.18	102	0.034	10	0.59	0.019	0.26	0.4	0.005	4	0.05	0.025	3	0.25	0.1
1540254	25	0.05	0.05	0.05	13	0.96	0.025	27	4	0.22	70	0.052	10	0.61	0.039	0.32	1	0.005	2.6	0.05	0.025	3	0.25	0.1
1540255	25	0.05	0.05	0.05	18	1.45	0.032	23	4	0.46	81	0.064	10	0.77	0.042	0.43	0.9	0.005	3.5	0.2	0.025	4	0.25	0.1
1540256	36	0.05	0.1	0.3	15	1.98	0.026	34	4	0.28	105	0.038	10	0.62	0.032	0.28	0.5	0.005	4	0.1	0.025	3	0.25	0.1
1540257	11	0.05	0.1	0.9	6	0.36	0.02	27	4	0.04	60	0.005	10	0.33	0.02	0.13	0.9	0.05	1.7	0.05	0.025	1	0.25	1.3
1540258	11	0.05	0.05	0.9	5	0.18	0.017	25	3	0.03	80	0.002	10	0.33	0.021	0.14	1.2	0.07	1	0.05	0.025	0.5	0.25	1.3
1540259	34	0.05	0.05	0.1	4	1.17	0.027	40	4	0.04	89	0.002	10	0.32	0.028	0.13	1.1	0.02	1.2	0.05	0.025	0.5	0.25	0.1
1540261	19	0.05	0.05	0.1	6	0.99	0.027	38	4	0.04	266	0.001	10	0.34	0.026	0.1	1	0.01	1.7	0.05	0.025	1	0.25	0.3
1540262	16	0.05	0.05	0.05	5	0.94	0.028	34	4	0.04	114	0.001	10	0.33	0.021	0.14	0.7	0.02	1.5	0.05	0.025	0.5	0.25	0.1
1540263	64	0.05	0.3	0.05	16	2.1	0.032	29	4	0.05	51	0.004	10	0.34	0.021	0.13	0.2	0.005	4.6	0.05	0.025	1	0.25	0.1
1540264	38	0.05	0.3	0.05	15	1.2	0.03	28	5	0.19	44	0.003	10	0.54	0.026	0.15	0.4	0.005	3.8	0.05	0.025	2	0.25	0.1
1540265	42	0.05	0.2	0.05	14	1.34	0.034	29	4	0.12	115	0.011	10	0.5	0.02	0.16	0.4	0.005	4.6	0.05	0.025	2	0.25	0.1
1540266	69	0.05	0.1	0.2	17	2.08	0.047	29	5	0.17	46	0.009	10	0.54	0.027	0.16	0.3	0.005	4.9	0.05	0.025	2	0.25	0.1
1540267	51	0.05	0.1	0.05	19	2.48	0.031	26	5	0.2	99	0.04	10	0.61	0.031	0.27	0.3	0.005	3.9	0.05	0.025	3	0.25	0.1
1540268	49	0.05	0.05	0.05	18	1.43	0.035	32	5	0.3	94	0.08	10	0.85	0.026	0.42	0.7	0.005	4.6	0.1	0.025	4	0.25	0.1
1540269	46	0.05	0.05	0.1	15	1.33	0.032	33	14	0.22	99	0.059	10	0.75	0.026	0.33	0.7	0.005	3.5	0.1	0.025	3	0.25	0.1
1540270	34	0.05	0.05	0.1	17	1.3	0.031	32	5	0.25	118	0.062	10	0.83	0.027	0.37	0.7	0.005	4.1	0.1	0.025	4	0.25	0.1
1540271	49	0.1	0.05	0.05	12	1.6	0.025	39	5	0.14	100	0.041	10	0.51	0.028	0.24	0.9	0.005	2.9	0.1	0.025	3	0.25	0.1
1540272	47	0.1	0.05	1.4	9	1.3	0.022	31	6	0.14	52	0.035	10	0.48	0.037	0.23	1.4	0.005	2.4	0.05	0.025	3	0.25	0.1
1540272	48	0.05	0.05	1.3	9	1.3	0.025	33	7	0.15	56	0.036	10	0.48	0.037	0.23	1.5	0.005	2.4	0.1	0.025	2	0.25	0.1
1540273	53	0.2	0.1	0.5	19	1.82	0.036	28	7	0.17	65	0.026	10	0.55	0.034	0.27	1.1	0.005	3.3	0.1	0.025	2	0.25	0.1
1540274	38	0.4	0.05	0.2	8	0.91	0.024	31	6	0.16	53	0.042	10	0.49	0.037	0.26	1.5	0.005	2.4	0.1	0.025	3	0.25	0.1
1540275	71	0.2	0.05	1.9	22	1.41	0.042	31	6	0.4	100	0.09	10	0.94	0.037	0.46	1.3	0.005	3.9	0.2	0.025	5	0.25	0.1
1540275	71	0.2	0.05	1.9	22	1.41	0.039	29	6	0.41	98	0.087	10	0.94	0.037	0.46	1.2	0.005	3.9	0.2	0.025	4	0.25	0.1
1540276	61	0.05	0.05	0.2	19	1.55	0.038	26	7	0.21	57	0.051	10	0.64	0.041	0.3	1.4	0.005	3.4	0.1	0.025	3	0.25	0.1
1540277	37	0.05	0.05	0.2	12	0.77	0.025	35	8	0.19	57	0.054	10	0.55	0.051	0.29	2.3	0.005	3.2	0.1	0.025	3	0.25	0.1
1540278	36	0.05	0.05	0.2	10	0.81	0.022	30	8	0.14	45	0.038	10	0.46	0.045	0.23	2.5	0.005	2.9	0.05	0.025	3	0.25	0.1
1540279	51	0.1	0.05	0.4	14	0.89	0.031	28	9	0.25	66	0.077	10	0.69	0.041	0.38	2.4	0.005	3.4	0.2	0.025	4	0.25	0.1
1540281	34	0.05	0.05	0.05	12	0.64	0.023	31	8	0.22	57	0.072	10	0.62	0.046	0.37	3.6	0.005	2.9	0.1	0.025	3	0.25	0.1
1540282	31	0.05	0.05	0.05	12	0.51	0.023	30	9	0.22	61	0.071	10	0.61	0.053	0.36	3.5	0.005	3	0.1	0.025	3	0.25	0.1
1540283	36	0.05	0.05	0.05	10	0.56	0.024	33	10	0.39	78	0.072	10	0.67	0.055	0.41	3.4	0.005	2.7	0.1	0.025	4	0.25	0.1
1540284	55	0.05	0.05	0.05	20	0.96	0.03	35	9	0.48	91	0.104	10	0.88	0.051	0.52	1.5	0.005	3.7	0.2	0.025	4	0.25	0.1
1540285	38	0.05	0.05	0.05	20	0.74	0.033	32	8	0.45	127	0.117	10	0.91	0.049	0.58	1.5	0.005	3.9	0.2	0.025	4	0.25	0.1
1540286	45	0.1	0.05	0.05	18	0.92	0.034	34	8	0.42	156	0.096	10	0.9	0.039	0.47	1.2	0.005	3.7	0.2	0.025	5	0.25	0.1
1540287	58	0.05	0.05	0.05	16	1.21	0.03	37	14	0.26	108	0.046	10	0.67	0.037	0.27	1.4	0.005	3.6	0.05	0.025	4	0.25	0.1
1540288	73	0.1	0.1	0.1	17	1.62	0.033	36	12	0.25	153	0.021	10	0.66	0.029	0.17	0.8	0.005	4.3	0.05	0.025	3	0.25	0.1
1540260	75	0.2	1.9	0.1	65	1.69	0.031	9	117	1.44	129	0.11	10	2.56	0.302	0.22	1	0.03	3	0.05	0.1	5	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pc	as_pp	au_ppl	th_pp	
1540280	17L00016			SR03			CDN-BL-10	WHI17000134	0.13	0.0025	2.3	24.5	2.7	43	0.3	23.3	10.1	387	2.32	4.4	1.2	1.1	
1540289	17L00017	0	5	SR03	12	Dry	Rock	WHI17000134	2.55	1.175	1.7	12.1	3.2	29	0.5	6.9	5.3	385	1.58	0.6	1058	16.6	
1540290	17L00017	5	10	SR03	22	Dry	Rock	WHI17000134	5.69	6.426	3.5	7.3	3.9	8	2.5	2.9	5.3	171	1.88	1.1	6934	13.6	
1540291	17L00017	10	15	SR03	22	Dry	Rock	WHI17000134	4.49	1.434	3.5	31	3.7	35	0.6	2.7	12.5	709	1.9	1.2	1234	9.4	
1540292	17L00017	15	20	SR03	16	Dry	Rock	WHI17000134	2.96	0.083	6.7	21.7	3.3	28	0.05	2.2	2.9	392	1.48	0.6	55.1	9.9	
1540293	17L00017	20	25	SR03	20	Dry	Rock	WHI17000134	3.62	0.253	10.1	9.1	4.2	22	0.1	2.1	3.9	354	1.2	1.7	241.6	12.6	
1540294	17L00017	25	30	SR03	20	Dry	Rock	WHI17000134	3.34	0.096	2.7	9.5	2.8	13	0.05	2.3	2.4	263	0.93	0.5	73.4	15	
1540295	17L00017	30	35	SR03	20	Dry	Rock	WHI17000134	3.32	0.049	2.6	6.2	4.8	21	0.05	2.6	3.3	333	1.14	0.25	67.4	14	
1540296	17L00017	35	40	SR03	20	Dry	Rock	WHI17000134	3.59	0.016	1.2	4.4	3.6	19	0.05	2.2	1.8	220	0.93	0.25	8.8	15	
1540297	17L00017	40	45	SR03	20	Dry	REP	WHI17000134	3.62	0.011	1.6	12.7	3.6	20	0.05	2	2.4	420	1.32	0.5	8.5	14	
1540297	17L00017	40	45	SR03	20	Dry	Rock	WHI17000134		0.013													
1540298	17L00017	45	50	SR03	20	Dry	Rock	WHI17000134	3.72	0.008	1	4.1	2.5	30	0.05	1.9	4.5	475	1.68	0.7	3.1	12.5	
1540299	17L00017	50	55	SR03	20	Wet	Rock	WHI17000134	3.06	0.0025	1.6	3.8	2.9	46	0.05	1.2	10.7	1170	3.24	0.25	1.4	5.9	
1540301	17L00017	55	60	SR03	20	Damp	Rock	WHI17000134	2.45	0.0025	1.8	5.2	2.7	51	0.05	2.3	12.3	1540	3.49	0.25	4.5	5.4	
1540302	17L00017	60	65	SR03	20	Wet	Rock	WHI17000134	2.16	0.0025	2.6	6.7	2.1	61	0.05	4.5	12.8	1132	3.53	0.5	3.7	4.9	
1540303	17L00017	65	70	SR03	20	Dry	Rock	WHI17000134	2.34	0.0025	1.7	4.4	1.4	56	0.05	2.1	12.1	1101	3.42	0.25	2.5	3.9	
1540304	17L00017	70	75	SR03	20	Dry	Rock	WHI17000134	2.4	0.0025	1.7	7.6	1.6	58	0.05	3.7	14.4	973	3.53	0.25	1.6	4.6	
1540305	17L00017	75	80	SR03	20	Wet	Rock	WHI17000134	2.54	0.0025	1.6	6.8	1.3	50	0.05	3.2	11.7	922	3.22	1.1	2.4	4.3	
1540306	17L00017	80	85	SR03	20	Dry	REP	WHI17000134	1.78	0.0025	1.7	5.5	1.2	53	0.05	2	11.5	973	3.35	0.5	1.2	4.9	
1540306	17L00017	80	85	SR03	20	Dry	Rock	WHI17000134			1.8	5.8	1.2	58	0.05	2.3	12.8	1058	3.36	0.25	1.1	4.8	
1540307	17L00017	85	90	SR03	20	Dry	Rock	WHI17000134	2.24	0.0025	3.8	4.6	2	62	0.05	1.7	13.6	1434	3.54	1.8	1.3	3.6	
1540308	17L00017	90	95	SR03	20	Dry	Rock	WHI17000134	2.3	0.0025	6.4	6	2.9	58	0.05	1.8	12.1	1279	3.38	1.6	0.25	4.5	
1540309	17L00017	95	100	SR03	20	Dry	DUP	WHI17000134		0.0025	2.4	6.9	2	64	0.05	2.1	13.6	1062	3.44	0.5	0.25	4.5	
1540309	17L00017	95	100	SR03	20	Dry	Rock	WHI17000134	2.63	0.0025	2.4	6.3	1.9	56	0.05	1.9	13.1	979	3.43	0.6	0.9	4.1	
1540300	17L00017			SR03			CDN-GS-5U	WHI17000134	0.09	5.118	8.8	198	24.3	79	0.8	15.6	12.1	544	4	11.3	4706	3.1	
1540310	17L00018	0	5	SR03	10	Dry	Rock	WHI17000134	1.79	0.008	2	8.6	3.2	50	0.05	3.5	5.2	552	1.84	0.25	5.2	10.1	
1540311	17L00018	5	10	SR03	24	Dry	Rock	WHI17000134	3.77	0.006	1.2	3.3	3.1	41	0.05	2.4	4.7	578	1.87	0.25	1.5	10.2	
1540312	17L00018	10	15	SR03	20	Dry	Rock	WHI17000134	3.57	0.0025	3.7	1.7	6.6	48	0.05	2.3	5.7	876	2.24	0.25	1.2	8.8	
1540313	17L00018	15	20	SR03	20	Dry	Rock	WHI17000134	2.76	0.0025	0.7	2.6	4.8	30	0.05	1.9	4.1	527	1.64	0.25	0.8	9.2	
1540314	17L00018	20	25	SR03	20	Dry	Rock	WHI17000134	3.03	0.0025	1.2	2.5	3.9	32	0.05	2.1	3.7	460	1.64	0.25	1.7	11.2	
1540315	17L00018	25	30	SR03	20	Dry	Rock	WHI17000134	2.9	0.011	1.9	3.5	4.9	59	0.05	1.8	3.8	834	2.14	0.25	6.4	10.6	
1540316	17L00018	30	35	SR03	20	Dry	Rock	WHI17000134	2.96	0.123	1.4	12.5	3.6	24	0.2	2.2	2.9	368	1.14	0.25	111.9	11.8	
1540317	17L00018	35	40	SR03	20	Dry	REP	WHI17000134	2.92	0.074	2.3	18	5.2	39	0.05	1.8	3.5	559	1.58	0.25	61	10.4	
1540317	17L00018	35	40	SR03	20	Dry	Rock	WHI17000134		0.076													
1540318	17L00018	40	45	SR03	20	Dry	Rock	WHI17000134	3.06	0.044	2.3	25.4	3.7	20	0.05	1.7	2.5	404	1.03	0.25	33.6	11.6	
1540319	17L00018	45	50	SR03	20	Dry	Rock	WHI17000134	2.81	0.086	2.7	60.1	9.5	54	0.2	2.1	2.6	298	1.16	0.25	51	13.1	
1540321	17L00018	50	55	SR03	20	Dry	Rock	WHI17000135	2.59	4.201	2.1	15.3	6.8	21	3.1	2.4	3.4	285	1.6	0.25	4223	10.4	
1540322	17L00018	55	60	SR03	20	Dry	Rock	WHI17000135	2.77	0.744	3.8	3.5	5	26	0.7	2.3	6.8	886	2.45	0.25	792.4	12.7	
1540323	17L00018	60	65	SR03	20	Dry	Rock	WHI17000135	2.73	0.689	2	4.7	4.7	16	0.8	2.2	4.5	382	1.2	0.25	759.9	9.7	
1540324	17L00018	65	70	SR03	20	Dry	REP	WHI17000135	3.16	0.193	1	10.4	3.7	40	0.2	2.2	5.9	557	2.01	0.9	218.2	8.5	
1540324	17L00018	65	70	SR03	20	Dry	Rock	WHI17000135			1.1	10.5	3.8	40	0.2	2.2	5.8	580	2.02	0.8	194.9	8.8	
1540325	17L00018	70	75	SR03	20	Dry	Rock	WHI17000135	3.01	0.028	1	12.8	2.9	49	0.05	2.6	6.5	526	2.32	0.25	24.8	7.1	
1540326	17L00018	75	80	SR03	20	Dry	Rock	WHI17000135	2.48	0.038	0.8	10.1	3.8	35	0.05	1.8	4.3	506	1.77	0.25	46.9	8.3	

Appendix II

sample	sr_pct	cd_ppm	sbppm	bipm	vppm	capct	p_pct	la_cr	mg_pct	ba_pct	tipct	bppal_pct	na_pct	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga	seppm	teppr			
1540280	39	0.2	0.3	0.05	56	0.78	0.061	4	29	0.76	96	0.135	10	1.48	0.075	0.12	13.2	0.01	4.7	0.05	0.025	5	0.25	0.1	
1540289	10	0.05	0.1	0.2	17	0.15	0.025	30	13	0.25	93	0.04	10	0.71	0.028	0.25	0.8	0.09	3.7	0.05	0.025	3	0.25	0.4	
1540290	32	0.05	0.1	2.5	4	0.07	0.015	23	6	0.05	169	0.005	10	0.32	0.038	0.19	1.6	0.36	1	0.05	0.15	1	0.25	5.8	
1540291	20	0.05	0.1	0.7	13	0.82	0.046	29	4	0.05	125	0.006	10	0.45	0.022	0.17	0.5	0.15	3.6	0.05	0.025	1	0.25	1.3	
1540292	20	0.05	0.1	0.05	11	1.43	0.033	25	3	0.07	84	0.012	10	0.4	0.016	0.17	0.4	0.04	2.1	0.05	0.025	2	0.25	0.1	
1540293	16	0.05	0.1	0.2	8	0.95	0.025	33	4	0.04	102	0.006	10	0.39	0.002	0.15	0.3	0.02	2.2	0.05	0.025	1	0.25	0.3	
1540294	8	0.05	0.05	0.05	4	0.21	0.016	27	5	0.02	53	0.001	10	0.31	0.001	0.11	0.9	0.01	1.1	0.05	0.025	0.5	0.25	0.1	
1540295	30	0.05	0.05	0.05	10	1.16	0.02	28	6	0.06	65	0.004	10	0.34	0.006	0.12	0.7	0.005	1.9	0.05	0.025	1	0.25	0.1	
1540296	24	0.05	0.05	0.05	6	0.77	0.014	28	4	0.05	49	0.006	10	0.31	0.029	0.12	0.7	0.005	1.1	0.05	0.025	1	0.25	0.1	
1540297	32	0.05	0.1	0.05	6	1.07	0.015	28	4	0.07	90	0.012	10	0.38	0.018	0.14	0.7	0.005	1.5	0.05	0.025	1	0.25	0.1	
1540297																									
1540298	32	0.05	0.1	0.05	23	1.01	0.027	26	5	0.34	127	0.064	10	0.75	0.027	0.38	0.8	0.005	3.6	0.1	0.025	3	0.25	0.1	
1540299	71	0.05	0.1	0.05	67	2.88	0.058	21	3	0.81	379	0.168	10	1.41	0.019	0.84	0.3	0.005	8.6	0.2	0.025	6	0.25	0.1	
1540301	110	0.05	0.05	0.05	81	3.96	0.062	20	6	1.13	491	0.194	10	1.82	0.027	1.1	0.3	0.005	8.8	0.2	0.025	7	0.25	0.1	
1540302	63	0.05	0.05	0.05	75	1.79	0.06	16	14	1.29	385	0.194	10	1.9	0.033	1.09	0.4	0.005	6.2	0.2	0.025	8	0.25	0.1	
1540303	62	0.05	0.05	0.05	68	1.57	0.062	15	6	1.27	396	0.211	10	1.92	0.043	1.08	0.5	0.005	5.3	0.2	0.025	7	0.25	0.1	
1540304	60	0.05	0.05	0.05	81	1.51	0.056	14	10	1.35	422	0.218	10	2.03	0.04	1.23	0.6	0.005	4.5	0.2	0.025	7	0.25	0.1	
1540305	45	0.05	0.05	0.05	68	1.19	0.059	15	9	1.18	355	0.184	10	1.74	0.044	1	0.4	0.005	4.3	0.2	0.025	6	0.25	0.1	
1540306	48	0.05	0.05	0.05	65	1.27	0.059	14	6	1.28	366	0.197	10	1.87	0.039	1.05	0.5	0.005	4.3	0.2	0.025	7	0.25	0.1	
1540306	54	0.05	0.05	0.05	65	1.28	0.066	14	6	1.28	361	0.196	10	1.86	0.04	1.05	0.5	0.005	4.1	0.2	0.025	8	0.25	0.1	
1540307	131	0.05	0.1	0.05	81	3.97	0.044	21	3	1.44	338	0.079	10	2.03	0.014	0.64	0.1	0.01	7.9	0.1	0.025	10	0.25	0.1	
1540308	126	0.05	0.2	0.05	63	3.3	0.051	24	6	1.28	206	0.077	10	1.87	0.017	0.58	0.2	0.02	6.8	0.1	0.025	9	0.25	0.1	
1540309	75	0.05	0.05	0.05	73	1.51	0.051	15	6	1.32	298	0.156	10	1.9	0.029	0.86	0.4	0.005	5.5	0.1	0.025	8	0.25	0.1	
1540309	65	0.05	0.05	0.05	73	1.51	0.052	13	6	1.33	290	0.148	10	1.88	0.028	0.85	0.4	0.005	5.4	0.1	0.025	7	0.25	0.1	
1540300	71	0.2	4.4	0.5	99	0.87	0.057	8	21	0.85	130	0.143	10	1.68	0.172	0.23	5.6	0.15	3.3	0.05	0.025	5	0.25	0.1	
1540310	33	0.05	0.05	0.05	22	1.61	0.035	28	8	0.31	123	0.074	10	0.78	0.018	0.41	0.6	0.005	3.9	0.1	0.025	4	0.25	0.1	
1540311	30	0.05	0.05	0.05	21	1.43	0.034	30	5	0.34	139	0.094	10	0.85	0.018	0.48	0.8	0.005	4.1	0.1	0.025	4	0.25	0.1	
1540312	68	0.05	0.05	0.05	21	4.61	0.035	31	4	0.29	333	0.068	10	0.7	0.004	0.39	0.7	0.005	4.5	0.1	0.025	3	0.25	0.1	
1540313	73	0.05	0.05	0.05	20	2.55	0.032	29	4	0.29	114	0.077	10	0.78	0.02	0.43	0.4	0.005	3.7	0.1	0.025	3	0.25	0.1	
1540314	35	0.05	0.05	0.05	17	1.64	0.036	31	4	0.22	109	0.057	10	0.68	0.008	0.33	0.5	0.005	4	0.05	0.025	3	0.25	0.1	
1540315	51	0.05	0.05	0.05	11	3.88	0.03	32	3	0.13	161	0.007	10	0.37	0.014	0.1	0.4	0.005	2.3	0.05	0.025	1	0.25	0.1	
1540316	19	0.05	0.05	0.3	6	1.25	0.024	30	4	0.05	90	0.003	10	0.32	0.02	0.14	0.6	0.005	1.1	0.05	0.025	1	0.25	0.1	
1540317	28	0.1	0.05	0.3	10	4.13	0.02	27	3	0.06	304	0.003	10	0.27	0.01	0.14	0.4	0.005	1.4	0.05	0.025	0.5	0.25	0.1	
1540317																									
1540318	13	0.05	0.05	0.8	5	0.52	0.022	29	4	0.05	97	0.007	10	0.35	0.021	0.16	0.4	0.005	1.4	0.05	0.025	1	0.25	0.1	
1540319	11	0.1	1.2	1.9	4	0.41	0.026	32	5	0.05	89	0.007	10	0.34	0.016	0.14	0.7	0.005	1.6	0.05	0.025	1	0.25	0.4	
1540321	14	0.05	0.05	2.3	4	0.44	0.02	23	6	0.04	64	0.003	10	0.45	0.041	0.2	0.5	0.12	1.2	0.05	0.025	1	0.25	4.4	
1540322	32	0.05	0.05	0.4	5	1.76	0.027	31	4	0.06	172	0.001	10	0.44	0.029	0.24	0.4	0.03	1.1	0.05	0.025	1	0.25	1.2	
1540323	23	0.05	0.05	0.5	4	1.86	0.024	26	5	0.05	123	0.001	10	0.41	0.027	0.25	0.4	0.02	0.9	0.05	0.025	1	0.25	0.8	
1540324	37	0.05	0.2	0.1	20	1.14	0.033	27	5	0.16	387	0.014	10	0.54	0.036	0.17	0.3	0.02	4.5	0.05	0.025	2	0.25	0.2	
1540324	36	0.05	0.2	0.1	20	1.15	0.035	29	5	0.16	403	0.015	10	0.54	0.036	0.17	0.2	0.02	4.6	0.05	0.025	3	0.25	0.2	
1540325	38	0.05	0.1	0.05	32	1.51	0.047	23	8	0.32	89	0.034	10	0.77	0.044	0.26	0.4	0.005	5.5	0.05	0.025	4	0.25	0.1	
1540326	69	0.05	0.1	0.05	20	1.86	0.037	26	4	0.24	79	0.02	10	0.5	0.026	0.18	0.3	0.005	4.5	0.05	0.025	2	0.25	0.1	

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pct	as_pp	au_ppl	th_pp
1540327	17L00018	80	85	SR03	20	Dry	Rock	WHI17000135	2.86	0.012	0.9	7.7	2.2	34	0.05	2.1	4.1	438	1.68	0.25	10.6	8.8
1540328	17L00018	85	90	SR03	20	Dry	Rock	WHI17000135	2.45	0.017	0.9	6.2	2.2	42	0.05	2.4	4.2	489	1.72	0.25	16.1	9.2
1540329	17L00018	90	95	SR03	20	Dry	Rock	WHI17000135	3.21	0.011	0.6	6	3	38	0.05	2.2	4.5	531	1.9	0.25	9.8	9.3
1540330	17L00018	95	100	SR03	20	Dry	Rock	WHI17000135	2.93	0.011	1.7	8.8	3.8	33	0.05	2.2	3.7	521	1.63	0.25	8.9	10.8
1540331	17L00018	100	105	SR03	20	Dry	Rock	WHI17000135	3.4	0.014	1	6.9	2.6	37	0.05	2.6	4.4	479	1.95	0.25	11.9	8.8
1540332	17L00018	105	110	SR03	20	Dry	Rock	WHI17000135	2.77	0.011	1.1	5.7	2.9	42	0.05	4.1	4.6	530	1.82	0.25	13.2	8.4
1540333	17L00018	110	115	SR03	20	Dry	Rock	WHI17000135		0.01												
1540333	17L00018	110	115	SR03	20	Dry	REP	WHI17000135	3.18	0.012	1.2	7.9	1.7	42	0.05	2.5	3.8	569	1.8	0.25	9.2	12.3
1540334	17L00018	115	120	SR03	20	Dry	Rock	WHI17000135	2.8	0.006	1.1	6.1	1.5	40	0.05	2	2.9	472	1.53	0.25	5.9	12.2
1540335	17L00018	120	125	SR03	20	Dry	Rock	WHI17000135	2.8	0.006	1.5	9.6	2.2	31	0.05	2.8	2.9	373	1.56	0.25	7.5	9.4
1540336	17L00018	125	130	SR03	20	Dry	Rock	WHI17000135	3.14	0.014	4.5	30.7	3.8	33	0.05	2.5	2.8	440	1.46	0.25	14.7	12.3
1540337	17L00018	130	135	SR03	20	Dry	Rock	WHI17000135	3.21	0.0025	3	28.1	4.9	33	0.05	2.4	2.7	399	1.46	0.25	5.9	9.2
1540338	17L00018	135	140	SR03	20	Dry	Rock	WHI17000135	2.98	0.009	9.4	33.8	7.9	36	0.2	2.2	2.9	345	1.46	0.25	7	11.8
1540339	17L00018	140	145	SR03	20	Dry	Rock	WHI17000135	2.98	0.011	4.8	34.1	15.2	37	0.4	3.1	2.8	374	1.5	0.25	11.5	10.5
1540341	17L00018	145	150	SR03	20	Dry	Rock	WHI17000135	2.56	0.007	3.5	11.6	4	26	0.05	2.1	2.7	349	1.26	0.25	3.5	10.8
1540342	17L00018	150	155	SR03	20	Dry	DUP	WHI17000135	2.93	0.0025	2.1	10.5	2.9	32	0.05	2.2	2.9	433	1.37	0.25	4.4	11.9
1540342	17L00018	150	155	SR03	20	Dry	Rock	WHI17000135		0.0025	2.3	9.9	2.8	32	0.05	2.1	2.6	447	1.4	0.25	4.6	12.5
1540343	17L00018	155	160	SR03	20	Dry	Rock	WHI17000135	3.01	0.006	1.7	5.8	1.4	32	0.05	2.9	3.5	401	1.56	0.25	4.8	10.4
1540344	17L00018	160	165	SR03	20	Dry	Rock	WHI17000135	2.96	0.0025	2	5.2	2.1	31	0.05	2.3	2.9	396	1.46	0.25	3.2	10.9
1540345	17L00018	165	170	SR03	20	Dry	Rock	WHI17000135	2.76	0.0025	1.4	6.8	3.5	34	0.05	2.1	3.1	307	1.56	0.25	3.1	10.8
1540346	17L00018	170	175	SR03	17	Dry	Rock	WHI17000135	2.52	0.0025	1.6	6.5	8.3	38	0.05	2.1	3	591	1.47	1	1.5	8.5
1540347	17L00018	175	180	SR03	20	Dry	Rock	WHI17000135	3.35	0.0025	2.7	8	3.6	27	0.05	2.6	2.3	448	1.21	0.25	3.6	9.8
1540348	17L00018	180	185	SR03	20	Dry	Rock	WHI17000135	3.27	0.0025	1.7	10.7	5.1	52	0.05	2.3	3.8	462	1.66	0.25	2.3	11.1
1540349	17L00018	185	190	SR03	20	Dry	Rock	WHI17000135	2.78	0.0025	5.1	8.8	5.8	37	0.05	1.9	3.1	535	1.42	0.25	2.5	9.2
1540350	17L00018	190	195	SR03	20	Dry	Rock	WHI17000135	2.48	0.0025	2.6	7.4	3	32	0.05	2.5	2.7	403	1.21	0.25	1.5	10.9
1540351	17L00018	195	200	SR03	20	Dry	Rock	WHI17000135	3.01	0.0025	1.7	4.2	4.1	36	0.05	2.2	2.5	453	1.4	0.25	2.6	7.1
1540320	17L00018			SR03			CDN-BL-10	WHI17000134	0.13	0.0025	2.4	28.2	2.4	43	0.4	23.5	10.8	426	2.42	4.8	1.4	0.9
1540340	17L00018			SR03			CDN-GS-P4F	WHI17000135	0.11	0.552	6.7	283	14.8	53	0.6	113.3	14.9	449	2.87	168.4	348.2	3.1
1540352	17L00019	0	5	SR03	20	Dry	Rock	WHI17000135	2.49	0.008	1.5	14.1	5.9	45	0.05	7.1	4.5	496	1.66	1.3	7.1	8.8
1540353	17L00019	5	10	SR03	20	Dry	Rock	WHI17000135	3.18	0.0025	1.5	8.1	3.7	42	0.05	3.1	3.1	541	1.57	0.25	2.3	9.4
1540354	17L00019	10	15	SR03	26	Dry	Rock	WHI17000135	4.44	0.0025	0.7	7.6	2.9	30	0.05	2.3	2.6	407	1.31	0.25	0.6	11.4
1540355	17L00019	15	20	SR03	20	Dry	Rock	WHI17000135	2.38	0.0025	0.7	7.4	3.9	37	0.05	2.1	2.6	479	1.49	0.25	0.9	12.2
1540356	17L00019	20	25	SR03	20	Dry	Rock	WHI17000135	2.87	0.0025	1.1	8	3.2	37	0.05	2.1	2.6	450	1.47	0.25	0.25	10.5
1540357	17L00019	25	30	SR03	20	Dry	Rock	WHI17000135			1.1	4.3	4.7	31	0.05	1	2	458	1.22	0.25	0.5	11.2
1540357	17L00019	25	30	SR03	20	Dry	REP	WHI17000135	2.33	0.0025	1.1	4.3	4.8	30	0.05	1.2	2	454	1.22	0.25	0.25	11.6
1540358	17L00019	30	35	SR03	20	Dry	Rock	WHI17000135	2.51	0.0025	1.1	7.4	4.7	33	0.05	2.3	2.4	485	1.39	0.25	0.25	13.5
1540359	17L00019	35	40	SR03	20	Dry	Rock	WHI17000135	2.49	0.0025	1	5.2	3.6	29	0.05	2.1	2.5	391	1.42	0.25	1.1	14
1540361	17L00019	40	45	SR03	20	Dry	Rock	WHI17000135	2.46	0.0025	1.1	7.3	4.2	28	0.05	2	2.3	413	1.21	0.25	0.25	10.2
1540362	17L00019	45	50	SR03	20	Dry	Rock	WHI17000135	2.44	0.0025	1.1	10.3	4.9	38	0.05	2.2	3.1	448	1.59	0.25	0.6	9.1
1540363	17L00019	50	55	SR03	20	Dry	Rock	WHI17000135	2.78	0.0025	0.7	7.7	5.2	38	0.05	2	3.4	435	1.56	0.25	1.4	9.6
1540364	17L00019	55	60	SR03	20	Dry	Rock	WHI17000135	3.57	0.0025	1	10.1	3.9	39	0.05	2.8	3.2	398	1.71	0.25	0.25	8.8
1540365	17L00019	60	65	SR03	20	Dry	Rock	WHI17000135	2.59	0.0025	1	5.3	4.4	35	0.05	2.4	3.2	423	1.43	0.25	0.9	11.3
1540366	17L00019	65	70	SR03	20	Dry	Rock	WHI17000135	2.48	0.0025	0.9	9.5	3.2	30	0.05	2.3	2.7	360	1.52	0.25	0.25	13.5

Appendix II

sample	sr_pi	cd_ppr	sbppm	bipppm	vppm	capct	p_pct	la_cr	mg_pct	ba_pct	tipct	bppal	al_pct	na_pct	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga	seppm	teppr	
1540327	37	0.05	0.05	0.05	17	1.07	0.029	26	6	0.27	65	0.045	10	0.71	0.047	0.27	0.3	0.005	3.6	0.05	0.025	3	0.25	0.1
1540328	35	0.05	0.05	0.05	15	0.95	0.028	27	5	0.39	55	0.043	10	0.76	0.042	0.26	0.3	0.005	3	0.05	0.025	4	0.25	0.1
1540329	49	0.05	0.1	0.05	18	1.15	0.029	28	6	0.37	57	0.057	10	0.88	0.05	0.31	0.4	0.005	3.5	0.05	0.025	4	0.25	0.1
1540330	64	0.05	0.2	0.05	15	1.87	0.031	29	5	0.24	56	0.011	10	0.57	0.039	0.14	0.2	0.005	3.1	0.05	0.025	3	0.25	0.1
1540331	32	0.05	0.2	0.05	18	0.99	0.031	26	7	0.41	49	0.026	10	0.89	0.054	0.23	0.2	0.005	3.2	0.05	0.025	4	0.25	0.1
1540332	44	0.05	0.1	0.05	20	1.29	0.04	24	8	0.44	64	0.047	10	0.87	0.045	0.29	0.3	0.005	3.3	0.05	0.025	5	0.25	0.1
1540333																								
1540333	33	0.05	0.05	0.05	19	1.01	0.029	33	8	0.55	80	0.077	10	0.94	0.076	0.47	0.7	0.005	4	0.1	0.025	5	0.25	0.1
1540334	39	0.05	0.05	0.05	17	1.01	0.026	28	6	0.6	65	0.077	10	0.76	0.074	0.44	0.8	0.005	3.6	0.1	0.025	4	0.25	0.1
1540335	27	0.05	0.05	0.3	13	0.59	0.019	25	8	0.29	53	0.042	10	0.67	0.068	0.3	0.9	0.005	2.6	0.1	0.025	3	0.25	0.1
1540336	46	0.05	0.05	0.6	10	0.93	0.022	30	8	0.21	61	0.033	10	0.57	0.046	0.22	0.9	0.005	2.6	0.05	0.025	3	0.25	0.1
1540337	56	0.05	0.1	0.8	11	1.12	0.022	29	7	0.21	57	0.039	10	0.66	0.05	0.27	0.7	0.005	2.2	0.1	0.025	3	0.25	0.1
1540338	33	0.1	0.05	5.5	10	0.53	0.021	30	7	0.23	48	0.05	10	0.6	0.048	0.28	1.5	0.005	2.3	0.1	0.025	3	0.25	0.1
1540339	34	0.1	0.05	2.6	9	0.7	0.021	29	10	0.19	66	0.046	10	0.63	0.058	0.3	1.1	0.005	2	0.1	0.025	3	0.25	0.1
1540341	42	0.05	0.05	0.3	9	0.93	0.023	29	7	0.2	70	0.043	10	0.58	0.041	0.28	1.1	0.005	2.2	0.1	0.025	3	0.25	0.1
1540342	31	0.05	0.05	0.2	10	1.07	0.024	28	9	0.29	49	0.036	10	0.63	0.062	0.28	0.8	0.005	2.8	0.05	0.025	3	0.25	0.1
1540342	33	0.05	0.05	0.2	10	1.08	0.026	31	9	0.3	53	0.039	10	0.66	0.066	0.29	0.8	0.005	3	0.05	0.025	3	0.25	0.1
1540343	35	0.05	0.05	0.05	16	0.64	0.029	27	9	0.5	90	0.072	10	0.75	0.072	0.43	0.9	0.005	3.9	0.1	0.025	4	0.25	0.1
1540344	45	0.05	0.05	0.05	11	0.75	0.025	29	7	0.41	63	0.059	10	0.72	0.047	0.36	0.8	0.005	2.9	0.05	0.025	4	0.25	0.1
1540345	26	0.05	0.05	0.05	12	0.5	0.024	26	8	0.25	58	0.057	10	0.83	0.055	0.34	0.5	0.005	2.5	0.1	0.025	4	0.25	0.1
1540346	82	0.1	0.05	0.05	10	2.59	0.019	23	7	0.49	35	0.023	10	0.45	0.025	0.17	0.4	0.005	2.3	0.05	0.025	2	0.25	0.1
1540347	24	0.05	0.05	0.05	8	0.6	0.021	26	12	0.15	86	0.033	10	0.59	0.046	0.23	0.6	0.005	2.1	0.05	0.025	3	0.25	0.1
1540348	45	0.2	0.05	0.05	18	0.92	0.029	33	8	0.31	68	0.078	10	0.82	0.037	0.43	0.6	0.005	3.7	0.1	0.025	4	0.25	0.1
1540349	90	0.2	0.05	0.1	9	2.06	0.024	28	8	0.17	81	0.02	10	0.6	0.033	0.2	0.4	0.005	2.2	0.05	0.025	2	0.25	0.1
1540350	45	0.05	0.05	0.05	7	1.06	0.022	29	9	0.13	49	0.022	10	0.48	0.046	0.2	0.6	0.005	2	0.05	0.025	2	0.25	0.1
1540351	75	0.05	0.05	0.05	13	1.67	0.033	22	8	0.23	74	0.035	10	0.73	0.046	0.28	0.5	0.005	2.2	0.05	0.025	3	0.25	0.1
1540320	40	0.3	0.3	0.05	58	0.81	0.059	5	32	0.78	94	0.135	10	1.52	0.08	0.13	12.8	0.01	4.6	0.05	0.025	5	0.25	0.1
1540340	79	0.2	1.5	0.1	65	1.76	0.033	8	107	1.43	119	0.102	10	2.66	0.32	0.23	1.1	0.05	3.1	0.05	0.1	6	0.25	0.1
1540352	10	0.05	0.1	0.05	18	0.24	0.029	25	7	0.24	113	0.063	10	0.74	0.035	0.3	0.7	0.005	3.1	0.1	0.025	4	0.25	0.1
1540353	17	0.05	0.05	0.05	12	0.81	0.025	26	6	0.2	102	0.049	10	0.76	0.042	0.3	0.9	0.005	3.3	0.1	0.025	4	0.25	0.1
1540354	22	0.05	0.05	0.4	9	0.73	0.022	28	5	0.18	76	0.059	10	0.57	0.038	0.32	1.3	0.005	2.5	0.1	0.025	3	0.25	0.1
1540355	48	0.05	0.2	0.1	11	1.13	0.025	35	5	0.2	87	0.066	10	0.73	0.048	0.36	0.7	0.005	3	0.1	0.025	3	0.25	0.1
1540356	24	0.05	0.05	0.1	13	0.78	0.027	30	4	0.19	89	0.064	10	0.62	0.046	0.34	0.9	0.005	3.2	0.1	0.025	3	0.25	0.1
1540357	28	0.05	0.05	0.05	9	0.94	0.024	34	2	0.11	74	0.033	10	0.44	0.023	0.21	0.7	0.005	2.8	0.05	0.025	2	0.25	0.1
1540357	29	0.05	0.05	0.05	9	0.93	0.025	35	2	0.11	76	0.033	10	0.43	0.023	0.2	0.6	0.005	2.7	0.05	0.025	2	0.25	0.1
1540358	29	0.05	0.05	0.05	9	0.98	0.024	37	4	0.13	85	0.036	10	0.54	0.037	0.24	0.6	0.01	2.9	0.1	0.025	3	0.25	0.1
1540359	22	0.05	0.05	0.05	8	0.81	0.024	46	5	0.11	82	0.024	10	0.73	0.019	0.23	0.6	0.005	2.9	0.05	0.025	3	0.25	0.1
1540361	29	0.05	0.05	0.1	8	1.25	0.022	28	3	0.11	82	0.019	10	0.6	0.007	0.2	0.8	0.005	2.8	0.05	0.025	2	0.25	0.1
1540362	29	0.1	0.1	0.1	16	1.59	0.043	30	4	0.16	102	0.021	10	0.83	0.008	0.25	0.4	0.005	2.9	0.05	0.025	3	0.25	0.1
1540363	35	0.05	0.1	0.05	13	1.12	0.032	26	4	0.24	76	0.033	10	0.68	0.033	0.23	0.5	0.01	2.6	0.05	0.025	3	0.25	0.1
1540364	30	0.05	0.2	0.05	14	0.77	0.031	25	7	0.29	73	0.034	10	0.82	0.061	0.27	0.5	0.005	2.5	0.05	0.025	4	0.25	0.1
1540365	11	0.05	0.2	0.05	9	0.38	0.027	31	5	0.16	79	0.024	10	0.67	0.013	0.22	0.8	0.005	2.3	0.05	0.025	3	0.25	0.1
1540366	20	0.05	0.05	0.05	9	0.58	0.026	32	6	0.19	68	0.026	10	0.8	0.052	0.23	0.5	0.005	2.3	0.05	0.025	3	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pct	as_pp	au_ppl	th_pp	
1540367	17L00019	70	75	SR03	20	Dry	Rock	WHI17000135	3.81	0.0025	0.9	10.8	3.6	37	0.05	2.6	3	366	1.35	0.25	0.25	10.1	
1540368	17L00019	75	80	SR03	20	Dry	Rock	WHI17000135	3.16	0.0025	1	8.7	3	28	0.05	1.9	2	270	1.16	0.25	0.6	12.9	
1540369	17L00019	80	85	SR03	20	Dry	Rock	WHI17000135	2.32	0.0025	0.9	8.9	2.9	24	0.05	2.2	2.2	293	1.13	0.25	1.1	12.4	
1540370	17L00019	85	90	SR03	20	Dry	Rock	WHI17000135	2.97	0.005	1.1	10.5	2.7	29	0.05	2.3	2.8	375	1.43	0.25	2.2	10.6	
1540371	17L00019	90	95	SR03	20	Dry	Rock	WHI17000135	2.9	0.0025	1	13	3	29	0.05	2.2	2.5	372	1.32	0.25	2.2	10.5	
1540372	17L00019	95	100	SR03	20	Dry	Rock	WHI17000135	2.89	0.0025	1.1	9.6	3.4	30	0.05	2.1	2.5	422	1.38	0.25	3.2	10.6	
1540373	17L00019	100	105	SR03	20	Dry	Rock	WHI17000135	3.79	0.032	1.2	8.1	3.6	36	0.05	2.2	3.2	510	1.47	0.25	20.8	11.1	
1540374	17L00019	105	110	SR03	20	Dry	Rock	WHI17000135	3.4	0.147	1.4	7.2	3.2	29	0.2	2.5	4.2	403	1.43	0.25	128.3	10.8	
1540375	17L00019	110	115	SR03	20	Dry	Rock	WHI17000135	4.38	0.038	0.9	9	3.5	42	0.05	2.2	4.8	548	1.9	0.25	30.7	9.8	
1540376	17L00019	115	120	SR03	20	Dry	DUP	WHI17000135	4.26	0.007	1	5.1	3	38	0.05	2.6	4.7	557	2.01	0.25	2.3	10.3	
1540376	17L00019	115	120	SR03	20	Dry	Rock	WHI17000135		0.0025	1	5.3	3	40	0.05	2.2	4.6	548	1.98	0.25	4.8	10.4	
1540377	17L00019	120	125	SR03	20	Dry	Rock	WHI17000135	4.06	0.0025	1.6	6.8	3.8	42	0.05	2.4	4.7	611	1.9	0.25	1.1	9.8	
1540378	17L00019	125	130	SR03	20	Dry	Rock	WHI17000135	4.11	0.0025	0.9	11.1	3.2	48	0.05	1.8	4.4	561	1.92	0.25	0.25	8.8	
1540379	17L00019	130	135	SR03	17	Dry	Rock	WHI17000135	3.19	0.072	1.4	5.3	2.7	38	0.05	2.4	5.5	524	1.93	0.25	60.6	10.2	
1540381	17L00019	135	140	SR03	20	Dry	Rock	WHI17000135	4.51	0.019	1.4	12	3.4	46	0.05	2.4	4.8	581	1.97	0.25	11.2	10.2	
1540382	17L00019	140	145	SR03	20	Dry	REP	WHI17000135	4.18	0.231	2.1	16.1	4.3	45	0.2	2.2	4.7	542	1.93	0.6	208.6	9.9	
1540382	17L00019	140	145	SR03	20	Dry	Rock	WHI17000135		0.219													
1540383	17L00019	145	150	SR03	20	Dry	Rock	WHI17000135	3.99	0.227	1.7	8.6	4.3	25	0.2	2.2	3	393	1.25	0.5	210.7	12	
1540384	17L00019	150	155	SR03	20	Dry	Rock	WHI17000135	4.76	0.018	1.4	11.9	3.4	31	0.05	2.2	2.5	436	1.34	0.25	18.1	11.2	
1540385	17L00019	155	160	SR03	20	Dry	Rock	WHI17000135	4.25	0.011	1.3	10.2	3.8	30	0.05	2.2	2.5	484	1.35	0.25	8.8	11.1	
1540386	17L00019	160	165	SR03	20	Dry	Rock	WHI17000135	3.84	0.009	1.2	6.8	3.1	30	0.05	2.2	2.7	411	1.48	0.25	3.1	12.2	
1540387	17L00019	165	170	SR03	20	Dry	Rock	WHI17000135	4.03	0.018	1.5	10.4	3.1	29	0.05	2.3	3.1	413	1.38	0.25	5.9	10.1	
1540388	17L00019	170	175	SR03	20	Dry	Rock	WHI17000135	3.71	0.005	1.4	13.8	2.7	30	0.05	2.1	2.7	376	1.41	0.25	1.8	11.1	
1540389	17L00019	175	180	SR03	20	Dry	Rock	WHI17000135	3.63	0.007	1.7	6.9	5.8	25	0.05	2.5	2.4	326	1.24	0.25	5.6	11.8	
1540390	17L00019	180	185	SR03	20	Dry	Rock	WHI17000135	4.33	0.006	2	7.1	2.2	29	0.05	2.1	2.6	363	1.45	0.25	5.3	11.4	
1540391	17L00019	185	190	SR03	20	Dry	Rock	WHI17000135	2.56	0.0025	1.5	10.9	3.2	31	0.05	2.6	2.9	439	1.36	0.25	3.2	10.4	
1540392	17L00019	190	195	SR03	20	Dry	Rock	WHI17000135	3.74	0.007	2	9.9	2.9	29	0.05	2.1	2.9	403	1.48	0.25	6	10.6	
1540392	17L00019	190	195	SR03	20	Dry	REP	WHI17000135			2	10.6	2.9	29	0.05	1.9	3	407	1.44	0.25	6.8	10.4	
1540393	17L00019	195	200	SR03	20	Dry	Rock	WHI17000135	4.05	0.0025	1.7	19.6	2.4	35	0.05	2	3.5	405	1.62	0.25	3.7	10.4	
1540394	17L00019	200	205	SR03	20	Dry	Rock	WHI17000135	3.64	0.005	1.3	7.5	2.8	41	0.05	2.5	4.6	497	1.99	0.25	0.8	8.8	
1540395	17L00019	205	210	SR03	20	Dry	Rock	WHI17000135	4.05	0.0025	2.2	10.4	4.3	49	0.05	2.6	5.5	680	2.23	1.4	1.2	7.3	
1540396	17L00019	210	215	SR03	20	Dry	Rock	WHI17000135	4.69	0.0025	1.9	13.6	3.2	42	0.05	2.5	5.1	530	2.06	0.25	4.5	9.3	
1540397	17L00019	215	220	SR03	20	Dry	Rock	WHI17000135	3.59	0.01	1.4	11.9	2.9	51	0.05	3.1	5.1	540	2.03	0.25	5.7	9.4	
1540398	17L00019	220	225	SR03	20	Dry	Rock	WHI17000135	5.29	0.0025	1.8	8	2.4	43	0.05	2.4	4.7	512	1.97	0.25	1.8	9.8	
1540399	17L00019	225	230	SR03	20	Dry	Rock	WHI17000135	3.44	0.0025	1.5	9.9	2.8	51	0.05	2.7	5.3	595	2.14	0.25	0.25	10.1	
1540401	17L00019	230	235	SR03	20	Dry	Rock	WHI17000135	3.89	0.0025	2.2	11.2	3.5	49	0.05	3.2	6.1	606	2.38	0.25	0.7	10.7	
1540402	17L00019	235	240	SR03	20	Dry	Rock	WHI17000135	4.08	0.0025	2.3	9.3	3.7	53	0.05	2.5	5.1	548	2.03	0.25	0.25	10.4	
1540403	17L00019	240	245	SR03	20	Dry	Rock	WHI17000135	3.89	0.0025	2.9	13.8	4.8	61	0.05	2.3	6.3	736	2.47	0.25	0.25	9.1	
1540404	17L00019	245	250	SR03	20	Dry	Rock	WHI17000135	4.6	0.0025	3.2	12.8	3.3	53	0.05	2.9	5.4	575	2.14	0.25	0.25	9.1	
1540405	17L00019	250	255	SR03	20	Dry	Rock	WHI17000135	4.4	0.0025	2.2	13	2.8	37	0.05	2.6	4.4	488	1.93	0.25	0.25	9.7	
1540406	17L00019	255	260	SR03	20	Dry	Rock	WHI17000135	4.06	0.0025	1.6	8.4	2.2	45	0.05	3.4	5.1	549	2.02	0.9	1.1	9.8	
1540407	17L00019	260	265	SR03	20	Dry	Rock	WHI17000135	4.4	0.0025	1.8	12	3	49	0.05	3.4	4.9	577	2.05	0.5	1.2	11.3	
1540408	17L00019	265	270	SR03	18	Dry	Rock	WHI17000135	3.67	0.0025	1.5	10.4	4.2	47	0.05	3	5.1	538	1.99	0.25	0.25	9	

Appendix II

sample	sr_pi	cd_ppr	sbppm	bippm	vppm	capct	p_pct	la_cr	mg_pc	ba_prt	tipct	bppal	al_pc	na_pc	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga	seppm	teppr	
1540367	36	0.05	0.1	0.05	12	0.83	0.03	26	8	0.29	62	0.033	10	0.64	0.051	0.23	1	0.005	2	0.05	0.025	3	0.25	0.1
1540368	29	0.05	0.05	0.05	7	0.8	0.018	28	6	0.12	56	0.018	10	0.56	0.062	0.19	0.5	0.005	1.6	0.05	0.025	2	0.25	0.1
1540369	25	0.05	0.05	0.05	7	0.83	0.019	30	5	0.15	50	0.012	10	0.49	0.053	0.16	0.5	0.005	1.6	0.05	0.025	2	0.25	0.1
1540370	23	0.05	0.05	0.1	9	0.61	0.024	25	7	0.24	65	0.03	10	0.7	0.058	0.25	0.5	0.005	2.1	0.1	0.025	3	0.25	0.1
1540371	26	0.05	0.05	0.05	8	0.7	0.024	28	5	0.22	52	0.016	10	0.59	0.041	0.17	0.5	0.005	1.7	0.05	0.025	3	0.25	0.1
1540372	28	0.05	0.1	0.05	8	0.97	0.025	28	7	0.2	75	0.014	10	0.68	0.047	0.21	0.4	0.005	1.8	0.05	0.025	3	0.25	0.1
1540373	37	0.05	0.05	0.05	9	1.27	0.028	30	5	0.31	155	0.014	10	0.67	0.032	0.17	0.5	0.005	2.1	0.05	0.025	3	0.25	0.1
1540374	38	0.05	0.1	0.2	8	1.08	0.025	29	7	0.25	167	0.011	10	0.7	0.058	0.21	0.3	0.005	1.6	0.05	0.025	3	0.25	0.3
1540375	58	0.05	0.1	0.05	21	1.7	0.035	28	6	0.4	76	0.048	10	0.9	0.034	0.29	0.4	0.005	3.2	0.1	0.025	4	0.25	0.1
1540376	53	0.05	0.2	0.05	21	1.56	0.033	30	7	0.42	66	0.042	10	0.99	0.046	0.31	0.3	0.005	3.4	0.05	0.025	4	0.25	0.1
1540376	53	0.05	0.2	0.05	20	1.54	0.033	31	7	0.41	68	0.041	10	1.01	0.05	0.31	0.3	0.005	3.4	0.05	0.025	4	0.25	0.1
1540377	76	0.05	0.2	0.05	19	2.04	0.034	29	6	0.36	85	0.029	10	0.79	0.032	0.23	0.3	0.005	3.3	0.05	0.025	4	0.25	0.1
1540378	42	0.05	0.1	0.05	20	1.29	0.037	23	6	0.45	72	0.048	10	0.94	0.036	0.28	0.4	0.005	3	0.05	0.025	4	0.25	0.1
1540379	36	0.05	0.1	0.05	17	1.15	0.031	29	7	0.45	72	0.031	10	0.97	0.049	0.26	0.4	0.005	2.7	0.05	0.025	4	0.25	0.1
1540381	53	0.05	0.2	0.05	21	1.54	0.038	28	7	0.4	302	0.023	10	0.84	0.032	0.2	0.4	0.005	3.1	0.05	0.025	4	0.25	0.1
1540382	32	0.05	0.2	0.2	18	1.05	0.033	27	6	0.37	76	0.02	10	0.93	0.04	0.23	0.2	0.005	3.5	0.05	0.025	4	0.25	0.1
1540382																								
1540383	49	0.05	0.1	0.1	5	1.42	0.03	34	6	0.09	174	0.004	10	0.46	0.041	0.19	0.3	0.02	1.7	0.05	0.025	2	0.25	0.4
1540384	50	0.05	0.05	0.05	7	1.36	0.025	30	8	0.14	71	0.009	10	0.62	0.054	0.19	0.3	0.005	2.3	0.05	0.025	3	0.25	0.1
1540385	54	0.05	0.1	0.05	7	1.37	0.024	30	7	0.16	35	0.009	10	0.51	0.039	0.16	0.4	0.005	2.5	0.05	0.025	2	0.25	0.1
1540386	46	0.05	0.1	0.05	9	1.08	0.024	33	8	0.21	49	0.026	10	0.75	0.057	0.23	0.4	0.005	2.6	0.05	0.025	3	0.25	0.1
1540387	49	0.05	0.05	0.05	11	1.13	0.03	26	8	0.25	61	0.029	10	0.64	0.049	0.23	0.6	0.005	2.4	0.05	0.025	3	0.25	0.1
1540388	34	0.05	0.05	0.05	10	0.81	0.025	31	8	0.21	62	0.032	10	0.67	0.063	0.24	0.6	0.005	2.5	0.05	0.025	3	0.25	0.1
1540389	32	0.05	0.2	0.1	8	0.95	0.023	29	7	0.2	47	0.021	10	0.54	0.045	0.22	0.6	0.01	1.8	0.05	0.025	3	0.25	0.1
1540390	27	0.05	0.05	0.05	10	0.65	0.022	30	9	0.24	52	0.039	10	0.65	0.069	0.27	1	0.005	2.4	0.05	0.025	3	0.25	0.1
1540391	31	0.05	0.05	0.05	9	0.86	0.028	26	7	0.21	78	0.02	10	0.64	0.039	0.22	0.7	0.005	1.9	0.05	0.025	3	0.25	0.1
1540392	27	0.05	0.05	0.05	10	0.67	0.025	29	9	0.22	149	0.034	10	0.77	0.048	0.27	0.5	0.005	2	0.05	0.025	3	0.25	0.1
1540392	27	0.05	0.05	0.05	10	0.65	0.025	29	9	0.22	149	0.034	10	0.76	0.048	0.27	0.5	0.005	2.1	0.05	0.025	3	0.25	0.1
1540393	27	0.05	0.1	0.05	15	0.52	0.027	27	8	0.36	98	0.047	10	0.74	0.042	0.27	0.7	0.01	2.3	0.05	0.025	4	0.25	0.1
1540394	45	0.05	0.1	0.05	22	1.25	0.033	24	9	0.45	60	0.033	10	1.03	0.062	0.28	0.3	0.005	3	0.05	0.025	5	0.25	0.1
1540395	91	0.05	0.2	0.05	32	2.56	0.045	26	8	0.56	37	0.009	10	0.96	0.032	0.14	0.3	0.02	3.7	0.05	0.025	5	0.25	0.1
1540396	60	0.05	0.2	0.05	25	1.44	0.035	26	10	0.46	56	0.028	10	0.95	0.062	0.24	0.3	0.005	3.1	0.05	0.025	5	0.25	0.1
1540397	38	0.05	0.05	0.05	21	1.06	0.033	28	10	0.56	50	0.016	10	0.94	0.058	0.18	0.1	0.005	2.4	0.05	0.025	5	0.25	0.1
1540398	37	0.05	0.05	0.05	26	0.67	0.03	25	12	0.47	101	0.095	10	0.99	0.07	0.47	0.7	0.005	2.9	0.1	0.025	5	0.25	0.1
1540399	42	0.05	0.05	0.05	30	0.81	0.033	28	9	0.64	132	0.117	10	1.16	0.071	0.57	1	0.005	3.4	0.1	0.025	6	0.25	0.1
1540401	50	0.05	0.05	0.05	36	1.1	0.042	27	10	0.65	119	0.113	10	1.36	0.077	0.57	0.5	0.005	4.3	0.2	0.025	7	0.25	0.1
1540402	45	0.1	0.05	0.05	28	0.94	0.032	28	9	0.52	80	0.085	10	1	0.058	0.43	0.5	0.005	3.2	0.1	0.025	5	0.25	0.1
1540403	61	0.05	0.05	0.05	35	1.36	0.049	25	9	0.64	132	0.112	10	1.29	0.069	0.56	0.6	0.005	4	0.2	0.025	6	0.25	0.1
1540404	49	0.05	0.1	0.05	28	0.96	0.04	24	10	0.54	96	0.084	10	1.05	0.066	0.44	1.1	0.005	2.8	0.2	0.025	5	0.25	0.1
1540405	52	0.05	0.1	0.05	27	0.96	0.029	25	11	0.45	100	0.061	10	1.01	0.068	0.38	0.9	0.005	2.3	0.1	0.09	5	0.25	0.1
1540406	34	0.05	0.05	0.05	26	0.75	0.031	25	13	0.68	89	0.074	10	1.08	0.046	0.42	0.6	0.005	2.9	0.05	0.05	6	0.25	0.1
1540407	43	0.05	0.05	0.05	24	1.1	0.031	32	13	0.65	92	0.058	10	1.08	0.08	0.34	0.3	0.005	3	0.05	0.025	6	0.25	0.1
1540408	45	0.05	0.05	0.05	25	0.9	0.034	26	10	0.54	85	0.075	10	0.99	0.049	0.4	0.5	0.005	2.7	0.1	0.025	6	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pc	as_pp	au_ppl	th_pp
1540409	17L00019	270	275	SR03	20	Dry	Rock	WHI17000135	4.62	0.0025	1.4	8.9	45.3	44	0.05	2.8	5.1	523	2.07	0.25	0.25	9
1540410	17L00019	275	280	SR03	20	Dry	DUP	WHI17000135		0.0025	12	7.6	18.4	60	0.05	2.2	5.2	551	1.95	0.9	0.25	8.9
1540410	17L00019	275	280	SR03	20	Dry	Rock	WHI17000135	4.63	0.0025	12.9	7.4	18.8	47	0.05	2	5.2	555	2	1	0.25	9.1
1540411	17L00019	280	285	SR03	20	Dry	Rock	WHI17000135	4.49	0.0025	4.6	9	7.2	41	0.05	2.6	4.6	458	1.86	0.25	0.25	10.4
1540412	17L00019	285	290	SR03	20	Dry	Rock	WHI17000135	4.14	0.0025	2.5	8	4.2	43	0.05	3.2	5.2	522	2.04	0.25	0.25	9.1
1540413	17L00019	290	295	SR03	20	Dry	Rock	WHI17000135	4.07	0.0025	2.1	11.9	3.3	45	0.05	2.8	5.4	524	2.06	0.25	0.25	8.5
1540414	17L00019	295	300	SR03	20	Dry	Rock	WHI17000135	2.96	0.0025	1.8	10.5	2.8	45	0.05	3.6	6.6	538	2.24	0.25	0.25	8.1
1540360	17L00019			SR03			CDN-BL-10	WHI17000135	0.13	0.0025	2.4	24.4	2.5	43	0.2	23.2	9.9	398	2.37	4.5	1.4	1
1540380	17L00019			SR03			CDN-GS-5U	WHI17000135	0.09	5.111	8.1	196	23.6	76	0.8	14.7	11.1	577	4.17	11.2	4741	3
1540400	17L00019			SR03			CDN-BL-10	WHI17000135	0.13	0.0025	2.1	23.1	2.3	42	0.3	21.9	9.8	388	2.35	4.6	1	0.9
1540415	17L00020	0	5	SR03	10	Dry	REP	WHI17000135	0.94	0.04	2	16.4	3.5	34	0.05	7.8	3.9	467	1.68	1.2	35.3	12.9
1540415	17L00020	0	5	SR03	10	Dry	Rock	WHI17000135		0.043												
1540416	17L00020	5	10	SR03	25	Dry	Rock	WHI17000135	5.56	0.014	1.8	21.9	2.6	42	0.05	7.7	4.5	488	1.79	0.25	10.3	12.5
1540417	17L00020	10	15	SR03	26	Dry	Rock	WHI17000135	6.11	0.01	1.1	10.4	2.6	38	0.05	3.3	4.4	563	1.6	0.25	6.7	10.9
1540418	17L00020	15	20	SR03	16	Dry	Rock	WHI17000135	3.36	0.0025	0.9	11.4	3.3	41	0.05	3	4.6	573	1.88	0.25	2.2	10.6
1540419	17L00020	20	25	SR03	20	Dry	Rock	WHI17000135	2.83	0.01	1.2	17	2.8	34	0.05	2.9	5	531	1.85	0.5	6.7	10.3
1540421	17L00020	25	30	SR03	20	Dry	Rock	WHI17000166	2.89	0.0025	0.9	7.2	2.8	36	0.05	1.5	4.4	578	1.74	0.5	2.3	11.2
1540421	17L00020	25	30	SR03	20	Dry	REP	WHI17000166			1	7	2.9	37	0.05	1.6	4.8	604	1.74	0.7	2.8	11.9
1540422	17L00020	30	35	SR03	20	Dry	Rock	WHI17000166	3.38	0.0025	0.7	3.9	2.2	36	0.05	1.4	4.3	525	1.7	0.25	1.4	11.2
1540423	17L00020	35	40	SR03	20	Dry	Rock	WHI17000166	3.42	0.0025	0.7	5.6	1.4	39	0.05	1.7	5	460	1.99	0.25	1.3	9.5
1540424	17L00020	40	45	SR03	20	Dry	Rock	WHI17000166	3.33	0.0025	0.5	4.3	1.5	50	0.05	1.1	4.8	513	1.9	0.25	0.8	11.4
1540425	17L00020	45	50	SR03	20	Dry	Rock	WHI17000166	2.98	0.0025	0.8	5.8	2.3	42	0.05	1.5	4.8	568	1.85	0.25	1.8	10.4
1540426	17L00020	50	55	SR03	20	Dry	Rock	WHI17000166	3.06	0.0025	0.7	5.9	2.2	43	0.05	1.5	4.9	581	1.93	0.25	2.6	9.8
1540427	17L00020	55	60	SR03	20	Dry	Rock	WHI17000166	3.37	0.016	0.7	5	2.6	47	0.05	1.7	4.9	614	1.95	0.5	3	8.6
1540428	17L00020	60	65	SR03	20	Dry	Rock	WHI17000166	3.26	0.013	0.6	8.8	2.9	39	0.05	1.3	4	576	1.62	0.25	8.5	8.9
1540429	17L00020	65	70	SR03	18	Dry	Rock	WHI17000166	3.38	0.176	1.3	6	2.5	25	0.1	1.5	2.2	368	1.01	0.25	173.6	14.3
1540430	17L00020	70	75	SR03	20	Dry	Rock	WHI17000166	3.02	0.022	1.2	7.2	2.5	21	0.05	1.1	1.9	294	0.91	0.25	21.5	15.8
1540431	17L00020	75	80	SR03	20	Dry	Rock	WHI17000166	2.93	0.034	1.5	3.8	2.7	17	0.05	1.1	2	265	0.85	0.25	62.3	14.4
1540432	17L00020	80	85	SR03	18	Dry	Rock	WHI17000166	3.42	0.062	0.9	5.6	2.5	23	0.05	1.6	2.5	330	0.99	0.25	60.6	15.7
1540433	17L00020	85	90	SR03	20	Dry	Rock	WHI17000166	3.67	0.007	0.9	5.4	1.9	58	0.05	1.5	7.6	863	2.6	0.25	5.6	9
1540434	17L00020	90	95	SR03	20	Dry	Rock	WHI17000166	3.28	0.0025	1.6	5.9	2.1	53	0.05	1.1	7.9	978	2.88	0.25	2.9	6.7
1540435	17L00020	95	100	SR03	20	Dry	Rock	WHI17000166	3.94	0.0025	1.9	5.4	1.7	37	0.05	1.5	5.7	707	2.14	0.25	1.5	10.5
1540436	17L00020	100	105	SR03	20	Dry	Rock	WHI17000166	3.05	0.0025	7.5	5.8	1.6	29	0.05	1.3	3.3	404	1.34	0.25	1.8	13.6
1540437	17L00020	105	110	SR03	20	Dry	REP	WHI17000166	2.53	0.0025	6.4	12.5	2.3	33	0.05	1.2	3.3	469	1.44	0.25	2.6	12.3
1540437	17L00020	105	110	SR03	20	Dry	Rock	WHI17000166		0.0025												
1540438	17L00020	110	115	SR03	20	Dry	Rock	WHI17000166	2.65	0.0025	2	6.4	2.7	46	0.05	1.3	4.5	622	1.81	0.25	1.6	12.7
1540439	17L00020	115	120	SR03	20	Dry	Rock	WHI17000166	3.28	0.0025	1.4	5.7	1.5	37	0.05	1.2	4.5	456	1.96	0.25	0.7	11
1540441	17L00020	120	125	SR03	20	Dry	Rock	WHI17000166	3.52	0.0025	1.9	17.3	0.9	44	0.05	1.9	5.2	513	2.09	0.25	0.7	12
1540442	17L00020	125	130	SR03	20	Dry	Rock	WHI17000166	3.78	0.0025	1.5	4.9	1.1	39	0.05	1.3	4.4	394	1.8	0.6	0.25	11.1
1540443	17L00020	130	135	SR03	20	Dry	Rock	WHI17000166	3.54	0.0025	1.4	4.3	1.2	53	0.05	1.3	4.6	576	2	0.25	0.25	12.6
1540444	17L00020	135	140	SR03	18	Dry	Rock	WHI17000166	3.35	0.0025	1.3	5.4	1.8	35	0.05	1.5	4.4	523	1.75	0.25	0.8	11.2
1540445	17L00020	140	145	SR03	20	Dry	Rock	WHI17000166		0.0025	2.4	4.1	4.2	40	0.05	1.3	4.9	859	2.06	0.25	0.8	10.4
1540445	17L00020	140	145	SR03	20	Dry	DUP	WHI17000166	2.67	0.0025	2.5	3.7	4.3	42	0.05	1.3	5.1	765	2.06	0.25	0.5	11.3

Appendix II

sample	sr_pi	cd_ppr	sbbpm	bippm	vppm	capct	p_pct	la_cr	mg_pct	ba_pct	tipct	bppl	al_pct	na_pct	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga	seppm	teppr	
1540409	56	0.05	0.05	0.05	27	0.68	0.031	26	9	0.56	92	0.086	10	1.19	0.059	0.48	0.4	0.005	2.8	0.1	0.025	6	0.25	0.1
1540410	60	0.05	0.8	0.05	25	0.99	0.036	27	8	0.62	77	0.069	10	1.13	0.041	0.4	0.4	0.02	2.7	0.1	0.025	6	0.25	0.1
1540410	61	0.05	0.05	0.05	26	0.97	0.035	27	8	0.63	79	0.07	10	1.15	0.045	0.41	0.4	0.02	2.7	0.1	0.025	7	0.25	0.1
1540411	58	0.05	0.05	0.05	22	0.81	0.028	27	11	0.46	81	0.08	10	1.03	0.058	0.43	0.8	0.01	2.2	0.2	0.025	5	0.25	0.1
1540412	52	0.05	0.05	0.05	24	0.66	0.032	21	14	0.5	110	0.109	10	1.07	0.078	0.52	1.4	0.005	2.5	0.2	0.025	5	0.25	0.1
1540413	50	0.05	0.05	0.05	26	0.63	0.033	23	13	0.5	102	0.122	10	1.05	0.065	0.57	1.5	0.005	2.1	0.2	0.025	5	0.25	0.1
1540414	68	0.05	0.05	0.05	30	0.88	0.04	21	12	0.65	111	0.112	10	1.26	0.064	0.52	1.2	0.005	2.1	0.2	0.025	6	0.25	0.1
1540360	42	0.1	0.3	0.05	58	0.8	0.058	4	30	0.77	99	0.132	10	1.52	0.076	0.13	12.9	0.02	4.5	0.05	0.025	5	0.25	0.1
1540380	77	0.2	4.7	0.5	100	0.88	0.061	8	18	0.86	136	0.146	10	1.72	0.18	0.23	5	0.15	2.8	0.05	0.025	5	0.25	0.1
1540400	40	0.2	0.3	0.05	57	0.8	0.057	4	29	0.76	95	0.123	10	1.52	0.077	0.13	13.3	0.01	4.4	0.1	0.025	5	0.25	0.1
1540415	12	0.05	0.2	0.05	20	0.27	0.024	33	8	0.28	114	0.061	10	0.79	0.029	0.28	0.4	0.02	3	0.1	0.025	3	0.25	0.1
1540415																								
1540416	9	0.05	0.05	0.2	17	0.22	0.028	30	11	0.43	84	0.051	10	0.85	0.063	0.31	0.8	0.02	2.4	0.1	0.025	4	0.25	0.1
1540417	18	0.05	0.05	0.05	17	0.79	0.029	28	6	0.39	113	0.062	10	0.78	0.043	0.37	1.1	0.01	2.1	0.1	0.025	4	0.25	0.1
1540418	21	0.05	0.05	0.1	20	0.7	0.03	27	7	0.37	141	0.082	10	0.9	0.067	0.5	0.6	0.005	2.5	0.2	0.025	4	0.25	0.1
1540419	15	0.05	0.05	0.05	17	0.53	0.032	26	6	0.47	97	0.063	10	0.86	0.057	0.34	0.8	0.005	2.5	0.05	0.025	4	0.25	0.1
1540421	22	0.05	0.05	0.05	19	0.58	0.028	35	3	0.43	118	0.09	10	0.86	0.05	0.43	0.8	0.005	3.8	0.05	0.025	4	0.25	0.1
1540421	24	0.05	0.1	0.05	19	0.58	0.031	37	3	0.42	121	0.095	10	0.86	0.05	0.43	0.8	0.005	3.6	0.1	0.025	4	0.25	0.1
1540422	22	0.05	0.05	0.05	20	0.56	0.031	32	4	0.41	122	0.105	10	0.87	0.048	0.47	0.7	0.005	4.6	0.1	0.025	4	0.25	0.1
1540423	18	0.05	0.05	0.05	32	0.42	0.042	24	4	0.63	181	0.13	10	1.06	0.058	0.61	0.8	0.005	5.2	0.1	0.025	6	0.25	0.1
1540424	20	0.05	0.05	0.05	26	0.8	0.032	29	3	0.6	157	0.118	10	1.04	0.05	0.56	0.7	0.005	5.6	0.2	0.025	5	0.25	0.1
1540425	25	0.05	0.05	0.05	23	0.95	0.045	28	4	0.45	124	0.085	10	0.94	0.045	0.44	0.5	0.005	4.6	0.1	0.025	4	0.25	0.1
1540426	26	0.05	0.05	0.05	23	0.85	0.038	30	4	0.5	125	0.082	10	1.03	0.044	0.43	0.5	0.005	5	0.1	0.025	5	0.25	0.1
1540427	38	0.05	0.1	0.05	21	1.6	0.041	27	4	0.52	80	0.021	10	1.03	0.037	0.21	0.2	0.005	4.7	0.05	0.025	6	0.25	0.1
1540428	28	0.05	0.2	0.05	17	1.56	0.045	28	3	0.41	66	0.006	10	0.85	0.027	0.16	0.2	0.005	4.2	0.05	0.025	4	0.25	0.1
1540429	18	0.05	0.2	0.1	8	1.17	0.026	33	4	0.21	52	0.004	10	0.56	0.027	0.16	0.3	0.02	2.7	0.05	0.025	2	0.25	0.1
1540430	24	0.05	0.05	0.05	5	1.11	0.021	31	3	0.19	40	0.006	10	0.53	0.03	0.17	0.3	0.005	1.6	0.05	0.025	2	0.25	0.1
1540431	25	0.05	0.05	0.05	5	0.98	0.02	28	4	0.13	125	0.009	10	0.39	0.032	0.16	0.8	0.005	1.3	0.05	0.025	2	0.25	0.1
1540432	18	0.05	0.05	0.05	8	0.73	0.021	31	4	0.22	70	0.02	10	0.54	0.031	0.18	0.6	0.02	1.9	0.05	0.025	3	0.25	0.1
1540433	29	0.05	0.1	0.05	37	1.02	0.044	22	4	0.8	138	0.101	10	1.44	0.037	0.54	0.3	0.005	5.5	0.1	0.025	6	0.25	0.1
1540434	40	0.05	0.1	0.05	46	1.37	0.054	20	3	0.89	242	0.135	10	1.6	0.025	0.72	0.2	0.005	7.5	0.2	0.025	7	0.25	0.1
1540435	47	0.05	0.05	0.05	31	1.21	0.046	27	5	0.56	141	0.133	10	1.11	0.04	0.66	0.5	0.005	5	0.2	0.025	5	0.25	0.1
1540436	38	0.05	0.05	0.05	14	1.17	0.024	35	5	0.25	121	0.066	10	0.61	0.038	0.36	0.9	0.005	2.4	0.1	0.025	3	0.25	0.1
1540437	51	0.05	0.05	0.05	15	1.67	0.03	31	4	0.28	135	0.064	10	0.69	0.027	0.37	0.8	0.005	3	0.1	0.025	3	0.25	0.1
1540437																								
1540438	29	0.05	0.05	0.05	22	0.97	0.035	35	4	0.35	137	0.097	10	0.87	0.034	0.5	0.7	0.005	3.9	0.2	0.025	4	0.25	0.1
1540439	26	0.05	0.05	0.05	25	0.73	0.037	30	5	0.53	119	0.12	10	0.91	0.05	0.6	1	0.005	5.7	0.1	0.025	5	0.25	0.1
1540441	25	0.05	0.05	0.05	27	0.54	0.038	32	7	0.54	135	0.144	10	0.97	0.054	0.68	1.1	0.005	5.4	0.2	0.025	5	0.25	0.1
1540442	42	0.05	0.05	0.05	23	0.81	0.033	32	5	0.38	94	0.088	10	0.69	0.054	0.41	0.9	0.005	5.7	0.1	0.025	4	0.25	0.1
1540443	27	0.05	0.05	0.05	26	1.06	0.035	31	6	0.66	121	0.122	10	1	0.058	0.58	1	0.005	6	0.2	0.025	5	0.25	0.1
1540444	29	0.05	0.1	0.05	21	0.75	0.036	30	5	0.38	99	0.093	10	0.84	0.042	0.45	0.8	0.005	4.1	0.1	0.025	4	0.25	0.1
1540445	85	0.05	0.1	0.05	23	2.51	0.039	31	5	0.31	241	0.083	10	0.79	0.03	0.44	0.5	0.005	5.2	0.1	0.025	4	0.25	0.1
1540445	87	0.05	0.2	0.05	22	2.47	0.036	33	5	0.31	246	0.084	10	0.77	0.029	0.43	0.6	0.005	5	0.1	0.025	4	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pc	as_pp	au_ppl	th_pp
1540446	17L00020	145	150	SR03	20	Dry	Rock	WHI17000166	2.84	0.0025	1.5	5.1	3.8	32	0.05	1.6	3.1	381	1.47	0.25	0.25	12.4
1540447	17L00020	150	155	SR03	20	Dry	Rock	WHI17000166	3.36	0.009	2.8	22.4	7.2	40	0.05	1.5	2.9	546	1.32	0.25	3.9	13
1540448	17L00020	155	160	SR03	20	Dry	Rock	WHI17000166	2.84	0.0025	2.3	23.9	10.9	52	0.1	1.1	2.6	465	1.29	0.25	0.25	12.8
1540449	17L00020	160	165	SR03	20	Dry	Rock	WHI17000166	2.8	0.0025	2.2	24.3	4.6	37	0.05	1.2	3.1	527	1.32	0.6	2	13.8
1540450	17L00020	165	170	SR03	20	Dry	Rock	WHI17000166	3.48	0.0025	2	4.8	3.9	30	0.05	2.8	3	497	1.47	0.25	1.3	12.3
1540451	17L00020	170	175	SR03	20	Dry	Rock	WHI17000166	3.6	0.0025	1.8	7.6	3.2	25	0.05	1.3	2.2	389	1.25	0.25	0.25	14.3
1540452	17L00020	175	180	SR03	20	Dry	Rock	WHI17000166	3.5	0.0025	1.9	8.8	5.3	41	0.05	1.7	3.1	479	1.49	0.25	0.25	12.3
1540453	17L00020	180	185	SR03	20	Dry	Rock	WHI17000166	2.79	0.0025	1.6	3.2	4.1	45	0.05	3.2	3.7	534	1.57	1	0.25	12.1
1540454	17L00020	185	190	SR03	20	Dry	REP	WHI17000166			2.4	6.2	4.7	35	0.05	1.3	2.8	423	1.33	1.5	0.25	11.6
1540454	17L00020	185	190	SR03	20	Dry	Rock	WHI17000166	3.37	0.0025	2.4	6	4.8	34	0.05	1.3	2.9	436	1.31	1.6	0.25	11.7
1540455	17L00020	190	195	SR03	20	Dry	Rock	WHI17000166	4.03	0.0025	2.1	5	3.8	39	0.05	1.6	3.4	505	1.6	1.3	0.25	11.5
1540456	17L00020	195	200	SR03	20	Dry	Rock	WHI17000166	3.49	0.0025	2.6	6.1	4.7	48	0.05	2.2	4.1	599	1.87	0.8	0.25	10.7
1540457	17L00020	200	205	SR03	20	Dry	Rock	WHI17000166	3.21	0.0025	1.9	5.1	10.6	45	0.05	1.4	2.6	435	1.35	1	0.25	9.9
1540458	17L00020	205	210	SR03	20	Dry	Rock	WHI17000166	3.14	0.0025	2	3.6	4.7	35	0.05	1.3	2.7	470	1.44	0.25	0.25	11.1
1540459	17L00020	210	215	SR03	20	Dry	Rock	WHI17000166	3.3	0.0025	2	4.1	5.8	34	0.05	2.3	2.7	498	1.49	0.7	0.25	11.8
1540461	17L00020	215	220	SR03	20	Dry	Rock	WHI17000166	3.39	0.0025	1.1	5	3.4	30	0.05	1.1	2.6	415	1.32	0.7	0.25	11.2
1540462	17L00020	220	225	SR03	20	Dry	Rock	WHI17000166	3.68	0.0025	1.8	5.8	3.7	32	0.05	1.9	3.1	387	1.43	0.9	0.25	13.3
1540463	17L00020	225	230	SR03	20	Dry	Rock	WHI17000166	2.97	0.0025	2.3	5.1	5.1	41	0.05	2.5	3.8	544	1.73	0.5	0.25	9.2
1540464	17L00020	230	235	SR03	20	Dry	Rock	WHI17000166	3.89	0.0025	2.4	5.3	3.2	30	0.05	1.5	2.6	375	1.38	0.5	1	10.6
1540465	17L00020	235	240	SR03	20	Dry	Rock	WHI17000166	3.63	0.0025	2	6.3	3.7	33	0.05	1.4	3	460	1.48	0.25	0.25	10.4
1540466	17L00020	240	245	SR03	20	Dry	Rock	WHI17000166	3	0.0025	1.8	2.3	3.1	33	0.05	2.5	2.9	453	1.59	0.25	1.6	12
1540467	17L00020	245	250	SR03	20	Dry	Rock	WHI17000166	3.32	0.0025	1.9	2.2	2.7	32	0.05	1.5	2.7	403	1.34	0.25	0.25	11.3
1540468	17L00020	250	255	SR03	20	Dry	Rock	WHI17000166	3.62	0.0025	5.2	6.8	3.4	46	0.05	2	5.4	574	2.08	0.6	1	8.7
1540469	17L00020	255	260	SR03	20	Dry	Rock	WHI17000166	3.44	0.0025	3.6	4.9	3.2	43	0.05	2.7	5.4	525	2.04	0.8	0.8	9
1540470	17L00020	260	265	SR03	20	Dry	Rock	WHI17000166	3.62	0.0025	3.3	4.3	3.1	41	0.05	1.8	5.4	574	2.01	0.6	0.25	9.6
1540471	17L00020	265	270	SR03	20	Dry	Rock	WHI17000166	3.3	0.0025	2	3	2.6	37	0.05	1.6	4.9	581	1.99	0.25	0.25	9.7
1540472	17L00020	270	275	SR03	20	Dry	Rock	WHI17000166	3.63	0.0025	2.7	3.5	2.6	40	0.05	3.1	5.5	539	2.06	0.25	0.7	9.5
1540473	17L00020	275	280	SR03	20	Dry	Rock	WHI17000166	3.81	0.0025	1.8	4.1	2	35	0.05	1.5	4.5	490	1.76	0.6	0.25	9.9
1540474	17L00020	280	285	SR03	20	Dry	Rock	WHI17000166	3.43	0.0025	26.8	8.4	3	34	0.05	1.4	3.3	392	1.4	0.25	0.8	13.9
1540475	17L00020	285	290	SR03	20	Dry	Rock	WHI17000166	3.73	0.0025	25.8	6.9	3.8	34	0.05	2.6	3.7	393	1.5	0.25	0.25	11.6
1540476	17L00020	290	295	SR03	20	Dry	Rock	WHI17000166	3.1	0.0025	3.4	5.3	3.9	39	0.05	1.5	5.3	517	1.9	0.25	0.25	9
1540477	17L00020	295	300	SR03	20	Dry	Rock	WHI17000166	2.86	0.0025	2.2	4.4	4.3	51	0.05	1.8	6.4	600	2.17	0.25	0.25	8.8
1540478	17L00020	300	305	SR03	20	Dry	Rock	WHI17000166	3.45	0.0025	2.1	4.6	3	39	0.05	2.7	4.9	484	1.95	0.25	0.25	9.7
1540479	17L00020	305	310	SR03	20	Dry	Rock	WHI17000166	3.61	0.0025	1.7	5.7	2.5	39	0.05	1.7	5.1	525	1.9	0.9	0.25	7.2
1540479	17L00020	305	310	SR03	20	Dry	DUP	WHI17000166		0.0025	1.8	5.8	2.5	41	0.05	1.6	5.2	517	1.88	0.9	0.25	8
1540481	17L00020	310	315	SR03	20	Dry	Rock	WHI17000166	3.58	0.0025	1.5	5.3	3	57	0.05	1.6	5.4	489	1.77	1.8	0.25	8.7
1540482	17L00020	315	320	SR03	20	Dry	Rock	WHI17000166	3.37	0.0025	1.5	7	3.2	33	0.05	1.5	4.2	451	1.64	0.6	0.25	7.9
1540483	17L00020	320	325	SR03	20	Dry	Rock	WHI17000166	3.38	0.0025	1.7	5.8	2.5	38	0.05	2.6	5.7	482	1.95	0.25	0.25	8.6
1540484	17L00020	325	330	SR03	20	Dry	Rock	WHI17000166	3.69	0.0025	1.9	4.7	2.1	37	0.05	2	5.2	473	1.91	0.25	0.25	8.7
1540420	17L00020			SR03			CDN-GS-P4F	WHI17000166	0.11	0.432	6.6	296	16.4	50	1	112	14.5	485	2.81	169.1	567.3	3.6
1540440	17L00020			SR03			CDN-BL-10	WHI17000166	0.13	0.0025	2.6	28.8	2.7	47	0.3	23.4	11.2	403	2.39	5.3	0.6	1.1
1540460	17L00020			SR03			CDN-GS-P4F	WHI17000166	0.09	5.03	7.8	192	23.6	76	0.8	15.1	11.1	544	4.04	11.5	4526	2.7
1540480	17L00020			SR03			CDN-BL-10	WHI17000166	0.12	0.0025	2.3	24.8	2.4	46	0.3	24	10.9	396	2.41	4.4	0.25	1

Appendix II

sample	sr_pi	cd_ppr	sbbpm	bippm	vppm	capct	p_pct	la_cr	mg_pc	ba_pt	tipct	bppal	al_pc	na_pc	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga	seppm	teppr	
1540446	64	0.05	0.05	0.05	16	1.15	0.033	34	6	0.23	92	0.066	10	0.71	0.039	0.37	0.6	0.005	4.4	0.1	0.025	3	0.25	0.1
1540447	105	0.3	0.05	0.4	9	2.47	0.026	34	5	0.15	1281	0.026	10	0.65	0.026	0.24	0.5	0.005	2.9	0.05	0.025	3	0.25	0.1
1540448	69	0.4	0.05	1.4	8	1.35	0.024	33	6	0.16	133	0.036	10	0.54	0.032	0.27	0.8	0.005	2.7	0.2	0.025	2	0.25	0.1
1540449	58	0.1	0.05	0.4	11	1.29	0.028	33	5	0.18	135	0.032	10	0.64	0.04	0.24	0.6	0.005	3.1	0.05	0.025	3	0.25	0.1
1540450	37	0.05	0.05	0.05	12	0.87	0.028	31	11	0.24	91	0.037	10	0.63	0.042	0.25	0.5	0.005	3.6	0.05	0.025	4	0.25	0.1
1540451	50	0.05	0.05	0.05	10	0.8	0.021	34	7	0.24	67	0.036	10	0.65	0.074	0.26	0.9	0.005	2.6	0.05	0.025	3	0.25	0.1
1540452	60	0.05	0.05	0.05	15	1.06	0.036	30	8	0.36	66	0.056	10	0.74	0.049	0.32	1.3	0.005	3.1	0.1	0.025	4	0.25	0.1
1540453	37	0.05	0.05	0.05	14	0.92	0.027	28	10	0.47	62	0.055	10	0.81	0.076	0.34	0.8	0.005	3.4	0.1	0.025	4	0.25	0.1
1540454	46	0.05	0.05	0.05	11	0.97	0.024	28	7	0.22	55	0.033	10	0.51	0.042	0.21	1.1	0.005	2.8	0.05	0.025	3	0.25	0.1
1540454	47	0.05	0.05	0.05	11	0.98	0.026	29	7	0.22	56	0.033	10	0.5	0.042	0.21	1.1	0.005	2.6	0.05	0.025	3	0.25	0.1
1540455	45	0.05	0.05	0.05	15	0.84	0.03	28	8	0.3	69	0.055	10	0.72	0.069	0.33	0.8	0.005	3.1	0.1	0.025	4	0.25	0.1
1540456	55	0.05	0.05	0.1	19	1.22	0.028	26	9	0.41	153	0.076	10	0.81	0.044	0.42	1	0.005	3.5	0.1	0.025	4	0.25	0.1
1540457	39	0.1	0.05	0.05	11	0.84	0.025	25	7	0.21	106	0.058	10	0.64	0.06	0.35	1	0.005	2.7	0.1	0.025	4	0.25	0.1
1540458	65	0.05	0.05	0.05	11	1.33	0.028	29	5	0.22	100	0.05	10	0.67	0.035	0.31	0.6	0.005	3.1	0.1	0.025	3	0.25	0.1
1540459	70	0.05	0.05	0.05	12	1.43	0.03	28	9	0.24	80	0.05	10	0.67	0.048	0.3	0.8	0.005	3	0.1	0.025	3	0.25	0.1
1540461	58	0.05	0.05	0.05	11	1.15	0.025	28	6	0.25	54	0.053	10	0.62	0.032	0.29	0.8	0.005	3.3	0.1	0.025	3	0.25	0.1
1540462	57	0.05	0.05	0.05	13	0.95	0.031	40	8	0.27	67	0.058	10	0.74	0.056	0.35	1	0.005	3.6	0.1	0.025	4	0.25	0.1
1540463	70	0.05	0.05	0.05	19	1.15	0.033	25	10	0.33	85	0.069	10	0.77	0.048	0.4	0.9	0.005	3.4	0.2	0.025	4	0.25	0.1
1540464	42	0.05	0.05	0.05	12	0.74	0.028	27	8	0.24	66	0.054	10	0.62	0.055	0.29	1.2	0.005	3.2	0.1	0.025	4	0.25	0.1
1540465	51	0.05	0.05	0.05	13	1.08	0.029	26	8	0.32	111	0.051	10	0.61	0.048	0.28	1.2	0.005	2.8	0.1	0.025	4	0.25	0.1
1540466	43	0.05	0.05	0.05	13	0.87	0.028	31	9	0.33	100	0.056	10	0.8	0.062	0.36	0.8	0.005	3.2	0.1	0.025	4	0.25	0.1
1540467	39	0.05	0.05	0.05	12	1.04	0.025	29	8	0.3	76	0.06	10	0.68	0.044	0.33	0.8	0.005	2.9	0.1	0.025	4	0.25	0.1
1540468	64	0.05	0.05	0.05	24	1.26	0.038	25	9	0.55	110	0.069	10	1.02	0.058	0.42	0.7	0.005	3.5	0.1	0.025	5	0.25	0.1
1540469	49	0.05	0.05	0.05	23	1.09	0.04	25	11	0.52	82	0.067	10	0.97	0.048	0.39	0.6	0.005	3.8	0.1	0.025	5	0.25	0.1
1540470	48	0.05	0.05	0.05	24	1.15	0.035	27	9	0.5	91	0.06	10	1	0.067	0.36	0.5	0.005	3.7	0.05	0.025	5	0.25	0.1
1540471	51	0.05	0.05	0.05	28	1.27	0.035	25	8	0.56	89	0.1	10	1	0.047	0.55	0.8	0.005	4.2	0.1	0.025	5	0.25	0.1
1540472	40	0.05	0.05	0.05	27	0.91	0.032	25	15	0.48	108	0.108	10	1.02	0.068	0.6	1.1	0.005	3.7	0.2	0.025	5	0.25	0.1
1540473	31	0.05	0.05	0.05	22	0.76	0.034	25	8	0.46	77	0.09	10	0.87	0.051	0.46	0.8	0.005	3.4	0.2	0.025	4	0.25	0.1
1540474	24	0.05	0.05	0.2	16	0.42	0.022	25	9	0.3	61	0.073	10	0.77	0.074	0.43	1.7	0.005	2.3	0.2	0.025	4	0.25	0.1
1540475	40	0.05	0.05	0.2	17	0.99	0.025	24	11	0.29	45	0.04	10	0.72	0.042	0.28	0.9	0.005	2.4	0.1	0.025	4	0.25	0.1
1540476	67	0.05	0.05	0.05	25	1.77	0.035	27	8	0.43	84	0.075	10	1.11	0.031	0.42	0.4	0.005	3.9	0.1	0.025	6	0.25	0.1
1540477	68	0.05	0.05	0.05	31	1.85	0.05	27	8	0.56	140	0.082	10	1.11	0.035	0.43	0.4	0.005	3.6	0.1	0.025	6	0.25	0.1
1540478	50	0.05	0.05	0.05	23	1.35	0.036	25	10	0.43	90	0.082	10	0.99	0.055	0.43	0.5	0.005	3.1	0.1	0.025	5	0.25	0.1
1540479	73	0.05	0.05	0.05	23	1.45	0.037	22	7	0.47	86	0.058	10	1.04	0.053	0.37	0.5	0.005	2.7	0.1	0.025	5	0.25	0.1
1540479	73	0.05	0.05	0.05	22	1.5	0.035	23	8	0.47	85	0.058	10	0.97	0.041	0.35	0.6	0.005	2.7	0.1	0.025	5	0.25	0.1
1540481	107	0.05	0.9	0.05	22	1.69	0.037	28	9	0.52	60	0.044	10	1.14	0.026	0.38	0.5	0.005	2.6	0.1	0.025	6	0.25	0.1
1540482	85	0.05	0.05	0.05	20	1.25	0.027	24	8	0.44	77	0.06	10	1.03	0.045	0.42	0.6	0.005	2.2	0.1	0.025	5	0.25	0.1
1540483	58	0.05	0.05	0.05	27	0.87	0.035	25	10	0.53	97	0.105	10	1.06	0.046	0.56	1	0.005	2.5	0.2	0.025	5	0.25	0.1
1540484	55	0.05	0.05	0.05	26	0.72	0.033	21	11	0.49	94	0.113	10	1.06	0.06	0.56	1.1	0.005	2.5	0.2	0.025	5	0.25	0.1
1540420	78	0.3	1.7	0.1	64	1.75	0.035	9	105	1.4	139	0.108	10	2.65	0.302	0.21	1	0.03	3	0.05	0.1	6	0.25	0.1
1540440	44	0.2	0.3	0.05	59	0.83	0.068	5	29	0.79	116	0.142	10	1.56	0.079	0.13	13.3	0.005	5.1	0.05	0.025	5	0.25	0.1
1540460	66	0.2	3.4	0.5	98	0.87	0.068	7	18	0.85	133	0.133	10	1.68	0.178	0.22	5.1	0.15	3.1	0.05	0.025	5	0.25	0.1
1540480	37	0.2	0.3	0.05	58	0.81	0.065	4	30	0.79	96	0.124	10	1.5	0.078	0.13	13.3	0.02	4.5	0.05	0.025	5	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pp	as_pp	au_pp	plth_pp
1540485	17L00021	0	5	SR03	10	Dry	Rock	WHI17000166	3.06	0.007	2.8	20	5.3	45	0.05	7.7	4	472	1.69	1.3	4	10.5
1540495	17L00021	0	5	SR03	10	Dry	Rock	WHI17000166	2.38	0.013	1.5	46.7	6.9	45	0.05	5.4	3	422	1.39	0.25	10.7	11.5
1540486	17L00021	5	10	SR03	24	Dry	Rock	WHI17000166	5.39	0.018	1	12	3.3	36	0.05	2.7	3.1	463	1.38	1	16.5	11.5
1540496	17L00021	5	10	SR03	20	Dry	Rock	WHI17000166	6.85	0.007	1.1	25.2	6.3	48	0.2	3.5	3.1	398	1.44	0.25	5.8	11.3
1540487	17L00021	10	15	SR03	22	Dry	Rock	WHI17000166	5.96	0.008	1	5.9	2.2	31	0.05	3.6	3.2	398	1.42	0.25	5.5	12.3
1540497	17L00021	10	15	SR03	25	Dry	Rock	WHI17000166	6.41	0.006	0.9	41.1	7.4	67	0.2	1.9	2.6	394	1.35	0.25	3.8	11.1
1540488	17L00021	15	20	SR03	19	Dry	Rock	WHI17000166	4.59	0.0025	0.9	5.5	3.9	44	0.05	2.6	3.3	534	1.49	0.25	3.7	12.6
1540498	17L00021	15	20	SR03	16	Dry	Rock	WHI17000166	2.96	0.0025	0.7	74.1	5.8	53	0.2	1.3	2.7	382	1.31	0.25	3.9	11.3
1540489	17L00021	20	25	SR03	18	Dry	Rock	WHI17000166			0.8	3.9	1.6	51	0.05	3.1	3.4	675	1.59	0.25	1	14
1540489	17L00021	20	25	SR03	18	Dry	REP	WHI17000166	3.94	0.0025	0.6	3.9	1.6	51	0.05	3	3.4	684	1.55	0.25	1.2	13.1
1540499	17L00021	20	25	SR03	20	Dry	Rock	WHI17000166	3.59	0.0025	0.7	10.2	2.7	44	0.05	2.1	2.9	396	1.35	0.25	1.1	10.6
1540490	17L00021	25	30	SR03	20	Dry	Rock	WHI17000166	5.34	0.0025	1.1	5.2	2.6	38	0.05	4.4	2.8	457	1.53	0.25	1	12.8
1540501	17L00021	25	30	SR03	17	Dry	Rock	WHI17000166	4.82	0.0025	0.7	7.5	2.9	37	0.05	1.2	2.7	427	1.32	0.25	1.1	11.6
1540491	17L00021	30	35	SR03	20	Dry	Rock	WHI17000166	4.47	0.009	0.8	6.4	3.8	46	0.05	1.4	2.5	397	1.28	0.25	2	8.7
1540492	17L00021	35	40	SR03	19	Dry	Rock	WHI17000166	3.76	0.0025	0.8	6.7	4.7	48	0.05	1.7	3	438	1.54	0.25	0.6	11.3
1540493	17L00021	40	45	SR03	20	Dry	Rock	WHI17000166	4.29	0.0025	1.3	9.6	10.7	90	0.05	3.6	5.2	802	2.48	0.25	1.1	9.3
1540494	17L00021	45	50	SR03	6	Dry	Rock	WHI17000166	1.63	0.0025	1.3	13	8.7	63	0.05	1.8	3.9	548	1.83	0.25	0.9	8.5
1540500	17L00021			SR03			CDN-GS-P4F	WHI17000166	0.09	0.837	6.7	277	14.8	50	0.8	106.6	15.5	440	2.8	170.9	635.3	3.3
1540502	17L00022	0	5	SR03	11	Dry	Rock	WHI17000166	2.74	0.0025	0.8	7.2	3.1	40	0.05	4.2	4.1	367	1.35	0.7	0.25	7.7
1540503	17L00022	5	10	SR03	23	Dry	Rock	WHI17000166	6.34	0.0025	2.3	24.9	2.5	62	0.05	5.9	7.3	557	2.06	0.6	0.25	8.7
1540504	17L00022	10	15	SR03	24	Dry	Rock	WHI17000166	6.48	0.0025	1.1	18.7	2.1	51	0.05	2.1	3.9	393	1.38	0.25	0.25	6
1540505	17L00022	15	20	SR03	12	Dry	REP	WHI17000166	2.91	0.0025	1.4	13.9	2.7	73	0.05	2.1	4.7	457	1.7	0.25	1	7.8
1540505	17L00022	15	20	SR03	12	Dry	Rock	WHI17000166		0.0025												
1540506	17L00022	20	25	SR03	18	Dry	Rock	WHI17000166	4.89	0.0025	1.4	10.2	1.8	52	0.05	3	4.9	435	1.84	0.25	0.5	7.9
1540507	17L00022	25	30	SR03	20	Dry	Rock	WHI17000166	4.87	0.0025	0.6	4.6	1.7	38	0.05	1.3	4.6	424	1.64	0.25	0.25	7.2
1540508	17L00022	30	35	SR03	20	Dry	Rock	WHI17000166	4.48	0.0025	0.9	4.6	1.6	50	0.05	2	4	361	1.49	0.25	0.25	5.6
1540509	17L00022	35	40	SR03	20	Dry	Rock	WHI17000166	4.88	0.0025	1.5	9	2.5	44	0.05	3.5	5.1	517	1.95	0.25	0.25	8
1540510	17L00022	40	45	SR03	20	Dry	Rock	WHI17000166	4.66	0.0025	1.4	5.7	2.8	49	0.05	1.4	5.1	512	1.89	0.25	0.25	9.4
1540511	17L00022	45	50	SR03	20	Dry	Rock	WHI17000166	4.81	0.0025	1	10.7	1.8	56	0.05	3.1	4.6	364	1.74	0.25	0.25	6
1540512	17L00022	50	55	SR03	20	Dry	Rock	WHI17000166	4.34	0.0025	0.8	6.7	1.9	46	0.05	2.1	4.9	402	1.74	0.25	0.25	8.4
1540513	17L00022	55	60	SR03	20	Dry	Rock	WHI17000166		0.0025	0.9	7.3	2.2	44	0.05	1.7	5.9	516	2.06	0.25	0.25	8.7
1540513	17L00022	55	60	SR03	20	Dry	DUP	WHI17000166	4.49	0.0025	0.8	6.9	2.2	43	0.05	1.4	5.5	500	2.05	0.25	0.25	8.3
1540514	17L00022	60	65	SR03	20	Dry	Rock	WHI17000166	4.57	0.0025	1	7.4	1.9	39	0.05	2.7	5.2	464	1.87	0.25	0.25	9.4
1540515	17L00022	65	70	SR03	20	Dry	Rock	WHI17000166	4.09	0.014	0.8	7.4	2.1	40	0.05	1.4	4.8	430	1.72	0.25	0.6	9.9
1540516	17L00022	70	75	SR03	20	Dry	Rock	WHI17000166	4.21	0.013	1.2	9.2	2	48	0.05	1.6	4	395	1.58	0.25	8	8
1540517	17L00022	75	80	SR03	20	Dry	Rock	WHI17000166	4.74	0.0025	1.4	6	2.8	51	0.05	2.5	3.4	340	1.5	0.25	0.25	5.2
1540518	17L00022	80	85	SR03	20	Dry	Rock	WHI17000166	3.74	0.0025	2	7.7	3.2	50	0.05	1.5	4	417	1.69	0.25	0.25	7.1
1540519	17L00022	85	90	SR03	20	Dry	Rock	WHI17000166	4.12	0.009	2.4	27.5	4.3	21	0.05	1	2.7	353	1.24	0.25	5.1	8.3
1540521	17L00022	90	95	SR03	20	Dry	Rock	WHI17000166	3.15	0.016	4.1	26	6.8	35	0.05	1.4	3.8	565	1.56	0.5	12.5	7.1
1540522	17L00022	95	100	SR03	20	Dry	Rock	WHI17000166	3.98	0.006	3.7	18.3	9	52	0.05	2.3	6.5	704	2.64	0.25	55.1	7.6
1540523	17L00022	100	105	SR03	20	Dry	Rock	WHI17000166	2.97	0.009	3.3	62.7	6.3	50	0.05	1.6	5.9	688	2.22	0.6	6.8	9.5
1540524	17L00022	105	110	SR03	20	Dry	Rock	WHI17000166	3.47	0.131	1.9	33.9	5.1	34	0.05	2.3	4.4	386	1.58	0.25	216.8	8.9
1540525	17L00022	110	115	SR03	20	Dry	Rock	WHI17000166	3.83	0.132	1.9	18	4.5	31	0.05	0.9	4.5	451	1.57	0.25	115.4	10.4

Appendix II

sample	sr_pct	cd_ppm	sbppm	bipm	vppm	capct	p_pct	la	cr	mg_pct	ba_pct	tipct	bppm	al_pct	na_pct	k_pct	w_ppm	hgppm	sc_ppm	tlppm	s_pct	ga	seppm	teppm
1540485	12	0.1	0.05	0.7	16	0.18	0.026	27	17	0.26	116	0.067	10	0.81	0.058	0.39	1	0.005	3.3	0.1	0.025	4	0.25	0.1
1540495	9	0.05	0.05	0.8	12	0.13	0.025	34	6	0.21	98	0.051	10	0.69	0.038	0.27	0.9	0.01	2.8	0.1	0.025	4	0.25	0.1
1540486	7	0.1	0.2	0.1	13	0.13	0.027	32	6	0.19	122	0.051	10	0.66	0.035	0.29	1	0.005	3.4	0.1	0.025	3	0.25	0.1
1540496	14	0.2	0.05	1.3	11	0.16	0.024	27	7	0.24	97	0.053	10	0.69	0.071	0.34	1.6	0.005	2.3	0.1	0.025	3	0.25	0.1
1540487	9	0.05	0.05	0.05	13	0.12	0.025	35	8	0.26	100	0.066	10	0.71	0.049	0.35	1.7	0.005	3.1	0.1	0.025	4	0.25	0.1
1540497	11	0.1	0.05	0.8	13	0.17	0.024	25	5	0.24	90	0.052	10	0.62	0.051	0.3	1.5	0.005	2.1	0.1	0.025	4	0.25	0.1
1540488	12	0.05	0.05	0.05	14	0.15	0.026	29	7	0.33	142	0.06	10	0.77	0.064	0.36	0.7	0.005	3.2	0.1	0.025	4	0.25	0.1
1540498	16	0.2	0.05	0.8	12	0.27	0.025	29	4	0.25	88	0.072	10	0.66	0.078	0.34	7.8	0.005	2.7	0.1	0.025	3	0.25	0.1
1540489	11	0.05	0.05	0.05	20	0.18	0.034	31	12	0.64	117	0.088	10	0.99	0.075	0.46	0.7	0.005	4.6	0.1	0.025	5	0.25	0.1
1540489	10	0.05	0.05	0.05	20	0.18	0.03	28	11	0.63	108	0.082	10	0.97	0.074	0.45	0.5	0.005	4.4	0.2	0.025	5	0.25	0.1
1540499	12	0.1	0.05	0.1	12	0.2	0.024	25	4	0.26	83	0.06	10	0.64	0.059	0.33	1.8	0.005	2.4	0.1	0.025	3	0.25	0.1
1540490	12	0.05	0.05	0.05	16	0.14	0.024	28	9	0.33	102	0.066	10	0.81	0.065	0.36	0.9	0.005	3.1	0.1	0.025	4	0.25	0.1
1540501	21	0.05	0.05	0.05	11	0.37	0.022	27	4	0.26	78	0.056	10	0.7	0.09	0.31	1.2	0.005	2.4	0.1	0.025	3	0.25	0.1
1540491	15	0.05	0.05	0.05	14	0.17	0.025	23	4	0.29	88	0.051	10	0.69	0.054	0.3	1	0.005	2.1	0.1	0.025	4	0.25	0.1
1540492	15	0.05	0.05	0.05	14	0.18	0.026	26	4	0.33	98	0.061	10	0.84	0.082	0.38	0.9	0.005	2.6	0.1	0.025	4	0.25	0.1
1540493	13	0.1	0.05	0.05	25	0.23	0.042	31	7	0.65	168	0.1	10	1.24	0.046	0.54	0.5	0.005	4.8	0.2	0.025	7	0.25	0.1
1540494	12	0.1	0.05	0.05	17	0.18	0.033	24	5	0.43	122	0.05	10	0.91	0.055	0.3	0.3	0.005	3	0.05	0.025	5	0.25	0.1
1540500	76	0.3	1.5	0.1	65	1.73	0.033	8	100	1.43	122	0.097	10	2.68	0.317	0.21	1.1	0.03	3	0.05	0.11	5	0.25	0.1
1540502	29	0.05	0.1	0.1	17	0.28	0.028	22	5	0.32	88	0.018	10	0.9	0.039	0.19	0.3	0.005	2.7	0.05	0.025	5	0.25	0.1
1540503	28	0.05	0.05	0.1	28	0.45	0.042	25	12	0.65	107	0.051	10	1.16	0.052	0.36	0.4	0.005	3.2	0.1	0.025	5	0.25	0.1
1540504	28	0.05	0.05	0.2	18	0.53	0.027	15	5	0.38	89	0.058	10	0.81	0.059	0.36	1.2	0.005	1.9	0.1	0.025	4	0.25	0.1
1540505	24	0.05	0.05	0.05	24	0.44	0.033	19	4	0.46	138	0.088	10	0.97	0.067	0.53	0.9	0.005	2.7	0.2	0.025	5	0.25	0.1
1540505																								
1540506	28	0.05	0.05	0.05	27	0.64	0.04	21	6	0.46	146	0.097	10	0.99	0.064	0.58	0.7	0.005	2.5	0.2	0.025	5	0.25	0.1
1540507	26	0.05	0.05	0.05	23	0.57	0.03	20	4	0.42	110	0.095	10	0.97	0.074	0.57	0.9	0.005	2.3	0.2	0.025	4	0.25	0.1
1540508	31	0.05	0.05	0.05	25	0.58	0.03	17	6	0.46	98	0.086	10	0.92	0.066	0.53	0.8	0.005	2	0.2	0.025	5	0.25	0.1
1540509	49	0.05	0.05	0.05	28	1.26	0.032	23	7	0.46	250	0.107	10	1.09	0.066	0.62	0.8	0.005	3	0.2	0.025	5	0.25	0.1
1540510	36	0.05	0.05	0.2	27	1.16	0.034	29	4	0.47	101	0.089	10	1.06	0.048	0.56	0.4	0.005	3.2	0.2	0.025	5	0.25	0.1
1540511	32	0.05	0.05	0.05	30	0.51	0.036	17	7	0.46	118	0.093	10	0.98	0.075	0.57	0.7	0.005	2.2	0.2	0.025	5	0.25	0.1
1540512	37	0.05	0.05	0.05	30	0.63	0.035	22	5	0.47	120	0.09	10	1.06	0.088	0.58	0.6	0.005	2.7	0.2	0.025	5	0.25	0.1
1540513	39	0.05	0.05	0.05	32	0.84	0.042	30	3	0.55	126	0.112	10	1.19	0.065	0.66	0.5	0.005	2.9	0.2	0.025	6	0.25	0.1
1540513	36	0.05	0.05	0.05	31	0.8	0.039	27	3	0.54	120	0.112	10	1.12	0.055	0.63	0.6	0.005	2.8	0.2	0.025	5	0.25	0.1
1540514	34	0.05	0.05	0.05	22	0.73	0.036	24	6	0.43	91	0.07	10	0.97	0.066	0.42	0.6	0.005	2.3	0.2	0.025	5	0.25	0.1
1540515	37	0.05	0.05	0.05	20	0.86	0.032	32	4	0.41	61	0.04	10	0.85	0.045	0.29	0.4	0.005	2.9	0.05	0.025	4	0.25	0.1
1540516	32	0.05	0.05	0.05	24	0.83	0.032	25	4	0.44	82	0.053	10	0.92	0.074	0.39	0.5	0.005	2.8	0.1	0.025	5	0.25	0.1
1540517	48	0.05	0.05	0.05	26	1.27	0.036	18	6	0.37	61	0.035	10	0.77	0.061	0.28	0.3	0.005	2.5	0.1	0.025	5	0.25	0.1
1540518	51	0.05	0.05	0.05	25	1.31	0.032	22	5	0.37	80	0.068	10	0.88	0.061	0.43	0.5	0.005	3.3	0.1	0.025	5	0.25	0.1
1540519	60	0.05	0.2	0.1	12	2.19	0.031	25	3	0.1	72	0.013	10	0.51	0.031	0.21	0.3	0.005	2.8	0.05	0.025	2	0.25	0.1
1540521	69	0.05	0.05	0.1	16	3.81	0.034	21	4	0.09	103	0.005	10	0.42	0.003	0.13	0.5	0.005	3.5	0.05	0.025	1	0.25	0.1
1540522	56	0.05	0.1	0.2	40	4.21	0.057	25	9	0.12	226	0.005	10	0.73	0.003	0.15	0.2	0.01	7.5	0.05	0.025	2	0.25	0.1
1540523	42	0.05	0.05	1.3	20	1.73	0.038	25	5	0.05	124	0.003	10	0.48	0.004	0.08	0.3	0.05	4.5	0.05	0.025	1	0.25	0.1
1540524	50	0.05	0.05	0.5	11	2.27	0.034	24	6	0.1	314	0.002	10	0.58	0.021	0.15	0.2	0.05	2.3	0.05	0.025	1	0.25	0.2
1540525	48	0.05	0.1	0.2	13	2.37	0.038	27	3	0.07	114	0.002	10	0.5	0.007	0.18	0.2	0.01	3.3	0.05	0.025	1	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pc	as_pp	au_ppl	th_pp
1540526	17L00022	115	120	SR03	20	Dry	Rock	WHI17000166	4	0.006	3	5.6	4.1	34	0.05	1	4.3	540	1.75	0.8	3.6	10.1
1540527	17L00022	120	125	SR03	20	Dry	Rock	WHI17000166	3.99	0.0025	3.8	6.3	4.2	34	0.05	2.2	4.9	517	2	0.9	2.1	10.3
1540528	17L00022	125	130	SR03	20	Dry	Rock	WHI17000166	4.43	0.0025	0.9	4.4	5.3	37	0.05	1.2	4.4	484	1.76	0.25	0.25	10.9
1540529	17L00022	130	135	SR03	20	Dry	Rock	WHI17000166	3.77	0.0025	1.6	58	5.3	49	0.05	1.2	5.7	586	2.27	0.25	1	10.2
1540530	17L00022	135	140	SR03	20	Dry	Rock	WHI17000166	3.75	0.0025	2.8	13.8	4.5	37	0.05	2.2	3.8	501	1.71	0.7	0.7	10
1540531	17L00022	140	145	SR03	20	Dry	Rock	WHI17000166	3.87	0.0025	1.4	3.2	3.7	31	0.05	1.1	2.3	360	1.17	0.25	0.25	9.7
1540532	17L00022	145	150	SR03	20	Dry	Rock	WHI17000166	3.7	0.0025	1.3	2.8	4.5	31	0.05	0.8	2.2	440	1.12	1.4	0.25	9
1540520	17L00022			SR03			Coarse Blar	WHI17000166	0.16	0.0025	0.4	1.2	4.4	19	0.1	2.6	0.5	101	0.17	2.6	1.4	0.2
1540533	17L00023	0	5	SR03	19	Dry	Rock	WHI17000166	2.74	0.0025	1.1	8.1	5.2	38	0.05	4.4	4.9	525	2	0.25	0.25	8.4
1540534	17L00023	5	10	SR03	24	Dry	REP	WHI17000166		0.0025												
1540534	17L00023	5	10	SR03	24	Dry	Rock	WHI17000166	4.01	0.0025	0.3	4.2	5.4	28	0.05	1.4	3.5	419	1.48	0.25	0.25	6.1
1540535	17L00023	10	15	SR03	26	Dry	Rock	WHI17000166	4.53	0.0025	0.4	2.5	4.7	36	0.05	1.2	4.3	505	1.71	0.5	0.25	9.6
1540536	17L00023	15	20	SR03	20	Dry	Rock	WHI17000166	2.73	0.0025	0.7	3.3	5.7	43	0.05	2.1	5	578	1.95	0.25	0.25	10
1540537	17L00023	20	25	SR03	20	Dry	Rock	WHI17000166	2.85	0.0025	1.6	13.5	6.1	51	0.05	1.4	3.7	529	1.5	0.25	0.25	6.8
1540538	17L00023	25	30	SR03	20	Dry	Rock	WHI17000192	3.29	0.0025	3.8	17.8	5.2	59	0.05	1.1	4	476	1.68	0.25	0.25	7.3
1540539	17L00023	30	35	SR03	20	Dry	Rock	WHI17000192	2.94	0.0025	2	30.8	5.6	43	0.05	1.6	4.3	563	1.74	0.25	0.25	8.9
1540541	17L00023	35	40	SR03	20	Dry	Rock	WHI17000192	2.94	0.0025	3.9	42	6.8	43	0.2	1	4.4	568	1.6	0.25	2.2	8.5
1540542	17L00023	40	45	SR03	20	Dry	Rock	WHI17000192	3.33	0.0025	2.2	30.3	6.9	59	0.1	2.3	4.8	547	1.8	0.5	8.5	9
1540543	17L00023	45	50	SR03	20	Dry	Rock	WHI17000192	2.75	0.304	2.5	65.6	4.1	33	0.2	1.9	4.3	426	1.65	0.25	254.3	9.2
1540544	17L00023	50	55	SR03	20	Dry	Rock	WHI17000192	3.44	0.024	1	22	3.7	46	0.05	1.3	4.2	418	1.57	0.25	10.6	10.9
1540545	17L00023	55	60	SR03	20	Dry	Rock	WHI17000192	3.49	0.006	0.9	7.6	4.6	50	0.05	2.7	3.5	373	1.47	0.25	8.7	5.8
1540546	17L00023	60	65	SR03	20	Dry	Rock	WHI17000192	3.34	0.0025	0.9	8.5	4.1	37	0.05	1.6	3.3	434	1.52	0.25	2.1	7.1
1540547	17L00023	65	70	SR03	20	Dry	Rock	WHI17000192	3	0.006	0.7	6	5	34	0.05	1	2.8	371	1.27	1.1	1.3	5.5
1540548	17L00023	70	75	SR03	20	Dry	Rock	WHI17000192	2.55	0.01	1	10.5	4.1	38	0.05	2.2	3.8	367	1.62	0.25	4.8	6.7
1540549	17L00023	75	80	SR03	20	Dry	Rock	WHI17000192			1.2	11.4	4.4	35	0.05	2	4.2	452	1.62	0.5	38.7	6.5
1540549	17L00023	75	80	SR03	20	Dry	REP	WHI17000192	2.76	0.042	1.1	11.8	4.5	35	0.05	1.8	4	446	1.62	0.7	35	6.6
1540550	17L00023	80	85	SR03	20	Dry	Rock	WHI17000192	2.64	0.225	1.5	31.3	3.6	27	0.2	1.6	3.4	563	1.4	0.25	484.8	7.6
1540550	17L00023	80	85	SR03	20	Dry	DUP	WHI17000192		0.161	1.9	34.3	3.9	30	0.1	1.9	3.3	585	1.39	0.25	109.9	7.5
1540551	17L00023	85	90	SR03	20	Dry	Rock	WHI17000192	3.12	3.496	2.3	8.9	4	12	2.4	1.1	4.7	218	1.47	0.9	3821	7.5
1540552	17L00023	90	95	SR03	20	Dry	Rock	WHI17000192	3.37	0.486	1.5	10.8	2.4	35	0.4	2.2	5.3	411	1.7	0.25	431	9
1540553	17L00023	95	100	SR03	20	Dry	Rock	WHI17000192	3.66	0.178	1.1	105	3	28	0.2	1.9	4.5	377	1.34	0.25	147.5	7.4
1540554	17L00023	100	105	SR03	20	Dry	Rock	WHI17000192	3.32	0.028	0.7	27.4	3.6	27	0.05	1.1	3.1	394	1.4	0.25	22.4	8.4
1540555	17L00023	105	110	SR03	20	Dry	Rock	WHI17000192	3.8	0.01	0.9	3.3	3.8	40	0.05	3.2	3.5	374	1.38	0.25	8.7	6
1540556	17L00023	110	115	SR03	20	Dry	Rock	WHI17000192	3.54	0.008	0.9	5	4.1	39	0.05	1.8	4.2	596	1.79	0.25	7.9	9.1
1540557	17L00023	115	120	SR03	20	Dry	Rock	WHI17000192	3.43	0.008	0.8	7.1	3.6	38	0.05	1.2	3.9	433	1.7	0.25	12.3	10.1
1540558	17L00023	120	125	SR03	20	Dry	Rock	WHI17000192	3.34	0.014	1.2	6.8	3.2	32	0.05	2.3	4.5	461	1.67	1	5.8	8.5
1540559	17L00023	125	130	SR03	20	Dry	REP	WHI17000192	3.1	0.0025	2.1	7.6	3.2	35	0.05	1.7	4.2	418	1.75	1.3	4.9	8.5
1540559	17L00023	125	130	SR03	20	Dry	Rock	WHI17000192		0.0025												
1540561	17L00023	130	135	SR03	20	Dry	Rock	WHI17000192	3.76	0.0025	2.7	8.6	4	33	0.05	2.2	4.2	469	1.82	0.25	2.5	8.3
1540562	17L00023	135	140	SR03	20	Dry	Rock	WHI17000192	4.13	0.0025	2.8	22.9	3.8	35	0.05	2.2	3.8	484	1.74	1	2.7	7
1540563	17L00023	140	145	SR03	20	Dry	Rock	WHI17000192	3.58	0.0025	1.8	14.9	2.2	40	0.05	2.3	4.6	510	1.95	0.25	3.7	8.9
1540564	17L00023	145	150	SR03	20	Dry	Rock	WHI17000192	3.74	0.0025	1.7	8.9	3.1	34	0.05	1.2	3.8	452	1.63	1	4.4	8.5
1540565	17L00023	150	155	SR03	20	Dry	Rock	WHI17000192	3.9	0.0025	1.9	9	2.2	37	0.05	1.7	4	422	1.73	0.25	2.7	8.6

Appendix II

sample	sr_pi	cd_ppr	sbppm	bippm	vppm	capct	p_pct	la_cr	mg_pct	ba_pct	tipct	bppal	al_pct	na_pct	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga	seppm	teppr	
1540526	44	0.05	0.1	0.2	20	1.98	0.033	27	3	0.09	79	0.014	10	0.66	0.016	0.21	0.2	0.005	4.8	0.05	0.025	2	0.25	0.1
1540527	61	0.05	0.1	0.2	21	2.04	0.035	29	6	0.12	67	0.015	10	0.58	0.025	0.21	0.3	0.005	4.3	0.05	0.025	2	0.25	0.1
1540528	64	0.05	0.1	0.05	19	2.2	0.03	27	4	0.24	55	0.043	10	0.82	0.027	0.32	0.4	0.005	3.7	0.05	0.025	3	0.25	0.1
1540529	53	0.05	0.1	0.3	32	2.24	0.05	27	4	0.32	81	0.069	10	0.94	0.006	0.44	0.5	0.005	4.8	0.2	0.025	4	0.25	0.1
1540530	59	0.05	0.05	0.1	15	2.39	0.027	27	6	0.16	82	0.045	10	0.81	0.004	0.3	0.5	0.005	3.3	0.1	0.025	3	0.25	0.1
1540531	43	0.05	0.05	0.05	12	1.58	0.019	20	5	0.19	62	0.051	10	0.72	0.004	0.31	0.6	0.005	2.7	0.1	0.025	3	0.25	0.1
1540532	67	0.05	0.05	0.05	11	2.62	0.021	19	4	0.16	64	0.04	10	0.78	0.005	0.28	0.4	0.005	2.9	0.1	0.025	3	0.25	0.1
1540520	276	0.3	1.3	0.05	17	20.65	0.018	1	3	12.22	18	0.002	10	0.1	0.002	0.02	0.2	0.005	0.4	0.05	0.025	0.5	0.25	0.1
1540533	15	0.05	0.1	0.2	27	0.55	0.036	31	6	0.36	110	0.082	10	1.09	0.01	0.47	0.8	0.005	4.5	0.2	0.025	5	0.25	0.1
1540534																								
1540534	61	0.05	0.1	0.05	23	2.7	0.034	19	3	0.28	94	0.061	10	1.08	0.004	0.42	0.6	0.005	4	0.1	0.025	4	0.25	0.1
1540535	73	0.05	0.05	0.05	24	3.04	0.034	26	2	0.3	101	0.067	10	0.91	0.005	0.43	0.7	0.005	4.9	0.1	0.025	4	0.25	0.1
1540536	82	0.05	0.05	0.05	24	3.6	0.034	28	4	0.25	127	0.059	10	0.98	0.009	0.39	0.3	0.005	4.6	0.1	0.025	4	0.25	0.1
1540537	50	0.2	0.05	0.3	21	3.38	0.029	20	3	0.19	103	0.045	10	0.77	0.003	0.31	0.4	0.005	3.5	0.1	0.025	3	0.25	0.1
1540538	74	0.1	0.05	0.4	23	1.96	0.03	24	3	0.31	107	0.084	10	1.08	0.04	0.5	0.4	0.005	3.6	0.2	0.025	5	0.25	0.1
1540539	77	0.05	0.05	0.3	20	2.35	0.031	24	4	0.31	150	0.058	10	0.96	0.031	0.39	0.4	0.005	3.9	0.1	0.025	4	0.25	0.1
1540541	70	0.2	0.05	3.2	21	3.11	0.03	26	2	0.3	84	0.06	10	1.01	0.033	0.38	0.4	0.01	4.3	0.1	0.025	4	0.25	0.1
1540542	47	0.2	0.05	1.5	22	1.77	0.031	25	5	0.34	86	0.055	10	0.92	0.032	0.36	0.4	0.03	4.4	0.1	0.025	4	0.25	0.1
1540543	44	0.05	0.1	0.4	16	1.82	0.032	25	5	0.32	96	0.02	10	0.99	0.05	0.3	0.2	0.04	3.4	0.05	0.025	4	0.25	0.3
1540544	37	0.1	0.1	0.3	18	1.41	0.03	28	3	0.3	74	0.036	10	0.8	0.03	0.27	0.4	0.01	3.6	0.1	0.025	3	0.25	0.1
1540545	53	0.05	0.1	0.1	22	1.54	0.03	19	7	0.29	95	0.034	10	0.79	0.063	0.28	0.4	0.005	2.5	0.1	0.025	4	0.25	0.1
1540546	61	0.05	0.1	0.05	18	2.17	0.027	21	4	0.29	74	0.038	10	0.82	0.038	0.29	0.3	0.005	3	0.1	0.025	4	0.25	0.1
1540547	71	0.05	0.1	0.05	15	3.08	0.028	18	3	0.2	85	0.013	10	0.83	0.023	0.23	0.2	0.02	2.9	0.05	0.025	4	0.25	0.1
1540548	59	0.05	0.05	0.05	17	2.13	0.028	22	5	0.22	83	0.028	10	0.69	0.033	0.24	0.3	0.005	2.8	0.05	0.025	3	0.25	0.1
1540549	59	0.05	0.1	0.05	16	2.52	0.03	21	5	0.16	65	0.009	10	0.72	0.048	0.21	0.1	0.005	2.9	0.05	0.025	3	0.25	0.1
1540549	59	0.05	0.2	0.05	16	2.49	0.03	20	5	0.17	62	0.009	10	0.71	0.048	0.21	0.2	0.005	2.9	0.05	0.025	3	0.25	0.1
1540550	36	0.05	0.05	0.1	9	2.62	0.028	23	5	0.1	86	0.003	10	0.56	0.034	0.22	0.2	0.05	2	0.05	0.025	2	0.25	0.1
1540550	37	0.05	0.05	0.1	9	2.64	0.03	24	4	0.11	85	0.004	10	0.52	0.03	0.21	0.3	0.06	1.9	0.05	0.025	2	0.25	0.2
1540551	27	0.05	0.1	1.3	4	1.02	0.03	20	3	0.07	92	0.002	10	0.4	0.042	0.24	0.4	0.44	1.1	0.05	0.12	1	0.25	5.2
1540552	29	0.05	0.1	0.3	11	1.44	0.036	24	6	0.21	75	0.004	10	0.7	0.045	0.26	0.2	0.05	2.4	0.05	0.025	3	0.25	1.5
1540553	24	0.05	0.1	0.4	7	1.53	0.032	23	5	0.11	71	0.003	10	0.52	0.042	0.23	0.3	0.05	2.4	0.05	0.025	2	0.25	0.4
1540554	56	0.05	0.2	0.05	12	2.01	0.032	24	4	0.1	63	0.004	10	0.52	0.043	0.22	0.2	0.02	3.1	0.05	0.025	2	0.25	0.1
1540555	69	0.05	0.1	0.05	17	1.76	0.03	17	7	0.26	49	0.018	10	0.65	0.047	0.21	0.3	0.005	2.7	0.05	0.025	3	0.25	0.1
1540556	79	0.05	0.2	0.05	20	1.85	0.028	22	6	0.34	251	0.034	10	0.82	0.058	0.29	0.3	0.005	3.6	0.05	0.025	4	0.25	0.1
1540557	66	0.05	0.2	0.05	20	1.49	0.032	26	4	0.26	89	0.032	10	0.64	0.043	0.25	0.3	0.005	3.9	0.05	0.025	3	0.25	0.1
1540558	67	0.05	0.1	0.05	17	2.09	0.033	27	7	0.17	81	0.017	10	0.63	0.034	0.24	0.2	0.02	4	0.05	0.025	3	0.25	0.1
1540559	56	0.05	0.1	0.05	21	1.54	0.031	24	5	0.27	60	0.053	10	0.82	0.039	0.35	0.2	0.005	3.9	0.1	0.025	4	0.25	0.1
1540559																								
1540561	83	0.05	0.05	0.05	20	2.02	0.031	25	6	0.36	58	0.048	10	0.68	0.036	0.31	0.4	0.005	4	0.1	0.025	3	0.25	0.1
1540562	69	0.05	0.2	0.1	19	2.2	0.029	21	6	0.38	69	0.035	10	0.78	0.045	0.31	0.3	0.005	3.1	0.1	0.025	4	0.25	0.1
1540563	50	0.05	0.05	0.1	26	0.98	0.034	27	7	0.43	128	0.101	10	0.96	0.056	0.52	0.9	0.005	3.5	0.2	0.025	5	0.25	0.1
1540564	64	0.05	0.1	0.05	19	1.52	0.028	24	5	0.32	66	0.048	10	0.87	0.058	0.33	0.5	0.005	3.3	0.1	0.025	4	0.25	0.1
1540565	34	0.05	0.1	0.2	17	0.71	0.028	25	7	0.36	77	0.06	10	0.82	0.063	0.35	1.1	0.005	2.8	0.1	0.025	4	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pc	as_pp	au_ppl	th_pp	
1540566	17L00023	155	160	SR03	20	Dry	Rock	WHI17000192	3.43	0.0025	1.9	3.1	4.8	31	0.05	2.1	3.4	469	1.45	1.1	3.4	6.7	
1540567	17L00023	160	165	SR03	20	Dry	Rock	WHI17000192	3.25	0.0025	0.9	2.6	7.3	42	0.05	0.9	4.1	759	1.83	1.4	5	6.7	
1540568	17L00023	165	170	SR03	20	Dry	Rock	WHI17000192	3.41	0.0025	1.1	13.2	4.5	40	0.05	2.1	4.6	509	1.73	0.25	0.9	7.2	
1540569	17L00023	170	175	SR03	20	Dry	Rock	WHI17000192	3.87	0.0025	1.5	32.2	5.1	43	0.05	2.7	4.8	599	1.96	0.25	5	7.6	
1540570	17L00023	175	180	SR03	20	Dry	Rock	WHI17000192	3.91	0.0025	2.1	24.6	4.7	33	0.05	1.4	3.2	376	1.38	0.25	1.8	9.4	
1540571	17L00023	180	185	SR03	20	Dry	Rock	WHI17000192	2.86	0.0025	2.9	5.5	3.8	34	0.05	1.5	2.3	404	1.27	1.8	2.3	10.6	
1540572	17L00023	185	190	SR03	20	Dry	Rock	WHI17000192	2.25	0.0025	3.1	13.4	5.1	48	0.05	2.2	4.2	616	2.07	0.8	2.7	9.3	
1540573	17L00023	190	195	SR03	20	Dry	Rock	WHI17000192	2.58	0.0025	1.6	5.2	8.7	35	0.05	0.8	3	642	1.58	1.8	1.3	8.2	
1540574	17L00023	195	200	SR03	20	Dry	Rock	WHI17000192	2.64	0.0025	1.4	4.2	5.8	34	0.05	1.5	2.6	525	1.44	2.6	0.9	10.5	
1540575	17L00023	200	205	SR03	20	Dry	Rock	WHI17000192	2.4	0.0025	1.7	4.6	5.1	38	0.05	2.5	4.6	588	1.85	2	1.3	9.7	
1540576	17L00023	205	210	SR03	20	Dry	Rock	WHI17000192	3.14	0.0025	1.1	3.2	3.3	34	0.05	1.3	3.7	391	1.48	1	0.25	9.8	
1540577	17L00023	210	215	SR03	20	Dry	Rock	WHI17000192	3.41	0.0025	1.7	3.4	5.7	38	0.05	1.6	4.2	564	1.8	6.4	1.4	8.5	
1540578	17L00023	215	220	SR03	20	Dry	REP	WHI17000192	3.77	0.0025	1.3	2.8	5.2	44	0.05	1.9	4.2	549	1.79	1	0.25	8.1	
1540578	17L00023	215	220	SR03	20	Dry	Rock	WHI17000192		0.0025													
1540579	17L00023	220	225	SR03	20	Dry	Rock	WHI17000192	3.54	0.0025	1.2	4.1	3.6	48	0.05	1.5	4.8	537	1.9	0.25	1.5	9.3	
1540581	17L00023	225	230	SR03	20	Dry	Rock	WHI17000192	2.78	0.0025	1.1	3	4.3	46	0.05	1.5	4.4	521	1.95	0.25	0.25	9.1	
1540582	17L00023	230	235	SR03	20	Dry	Rock	WHI17000192	3.78	0.0025	1.7	4.1	2.4	41	0.05	2.8	5	511	2.02	0.25	0.8	9	
1540583	17L00023	235	240	SR03	20	Dry	Rock	WHI17000192	4.33	0.0025	1.7	6.5	2.3	39	0.05	1.6	4.6	524	1.94	0.25	0.25	8.9	
1540583	17L00023	235	240	SR03	20	Dry	REP	WHI17000192			1.8	6.9	2.4	44	0.05	1.6	4.8	495	1.91	0.25	1.5	9.1	
1540584	17L00023	240	245	SR03	20	Dry	Rock	WHI17000192	4.14	0.0025	1.6	3.8	3.1	38	0.05	2.9	5.1	576	1.97	0.25	0.6	10	
1540584	17L00023	240	245	SR03	20	Dry	DUP	WHI17000192		0.0025	1.5	3.5	2.8	34	0.05	2.6	4.5	556	1.95	0.25	2.1	9.7	
1540585	17L00023	245	250	SR03	20	Dry	Rock	WHI17000192	3.89	0.0025	1.5	4.7	3	43	0.05	1.9	4.7	579	2.05	0.25	1.1	9.5	
1540586	17L00023	250	255	SR03	20	Dry	Rock	WHI17000192	3.4	0.0025	1.2	7.9	5.7	50	0.05	2.7	5.9	612	2.13	0.25	1.5	8.4	
1540587	17L00023	255	260	SR03	20	Dry	Rock	WHI17000192	3.15	0.0025	1.6	3.9	4.1	34	0.05	2.3	4.3	469	1.93	0.25	1.2	10.7	
1540588	17L00023	260	265	SR03	20	Dry	Rock	WHI17000192	3.74	0.0025	1	5.7	4.7	44	0.05	1.7	4.7	546	1.85	0.25	2.2	8	
1540589	17L00023	265	270	SR03	20	Dry	Rock	WHI17000192	3.74	0.0025	1.8	4.1	3.1	40	0.05	2.2	4.8	516	2.02	0.25	1.9	10.1	
1540590	17L00023	270	275	SR03	20	Dry	Rock	WHI17000192	3.84	0.0025	1.5	6.6	4.2	44	0.05	3.7	6	697	2.28	0.25	1.4	8.5	
1540591	17L00023	275	280	SR03	20	Dry	Rock	WHI17000192	3.66	0.0025	1.4	4.2	2.3	38	0.05	2.1	5.2	552	2.09	0.25	1	9.9	
1540592	17L00023	280	285	SR03	20	Dry	Rock	WHI17000192	3.67	0.0025	2.8	6.3	2.6	39	0.05	2.8	5.3	526	2.21	0.25	1.1	9	
1540593	17L00023	285	290	SR03	20	Dry	Rock	WHI17000192	3.55	0.0025	1.6	5.6	2.2	42	0.05	3	6.1	561	2.18	0.25	1.1	7.3	
1540594	17L00023	290	295	SR03	20	Dry	Rock	WHI17000192	3.84	0.0025	1.7	5.7	2.2	39	0.05	2	5	522	2	0.6	1.9	9.1	
1540595	17L00023	295	300	SR03	20	Dry	Rock	WHI17000192	3.45	0.0025	1.7	4.6	1.8	39	0.05	2.1	5.3	586	2.18	0.25	2.7	9.7	
1540596	17L00023	300	305	SR03	20	Dry	Rock	WHI17000192	3.07	0.0025	2	2.9	2.4	38	0.05	2.7	5.2	613	2.04	0.25	1.1	9.6	
1540597	17L00023	305	310	SR03	20	Dry	Rock	WHI17000192	3.6	0.0025	1.6	5.8	2.2	41	0.05	1.7	4.9	479	1.84	0.6	2.6	8.9	
1540598	17L00023	310	315	SR03	20	Dry	Rock	WHI17000192	3.21	0.0025	1.4	5	3	43	0.05	3.1	5.9	633	2.26	0.7	1.2	8.5	
1540599	17L00023	315	320	SR03	20	Dry	Rock	WHI17000192	2.4	0.0025	1.4	12.3	3	46	0.05	4	7.2	712	2.54	0.25	1	8.4	
1540601	17L00023	320	325	SR03	20	Dry	Rock	WHI17000192	3.04	0.0025	1.3	8.2	2.8	36	0.05	1.7	4.8	536	1.99	0.8	0.25	8.1	
1540602	17L00023	325	330	SR03	20	Dry	Rock	WHI17000192	3.8	0.0025	2	5.4	2.1	42	0.05	3.3	5.4	562	2.28	0.25	2.3	9.2	
1540540	17L00023			SR03			CDN-GS-5U	WHI17000192	0.09	4.972	8.6	202	23.2	77	0.8	15	11.3	585	4.2	12.3	4845	2.9	
1540560	17L00023			SR03			Coarse Blar	WHI17000192	0.16	0.0025	0.3	2.4	4.4	21	0.1	3	0.4	103	0.17	2.8	3.3	0.3	
1540580	17L00023			SR03			CDN-GS-P4F	WHI17000192	0.08	0.48	6.5	272	15	53	0.6	111.7	14.6	485	2.88	168.3	565.3	3.2	
1540600	17L00023			SR03			Coarse Blar	WHI17000192	0.16	0.0025	0.3	2.2	4.5	21	0.1	2.9	0.5	116	0.17	3.1	2.2	0.3	
1540603	17L00024	0	5	SR03	11	Dry	Rock	WHI17000192	1.89	0.007	1.8	9.4	5.2	28	0.05	5.9	3.8	337	1.46	1	6.7	8.7	

Appendix II

sample	sr_pi	cd_ppr	sbppm	bippm	vppm	capct	p_pct	la_cr	mg_pct	ba_pct	tipct	bppal	al_pct	na_pct	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga	seppm	teppr	
1540566	78	0.05	0.1	0.05	16	2.25	0.024	20	7	0.28	72	0.036	10	0.77	0.034	0.27	0.9	0.01	2.9	0.05	0.025	3	0.25	0.1
1540567	119	0.05	0.05	0.05	16	4.52	0.024	21	4	1.06	31	0.01	10	0.54	0.006	0.15	0.3	0.005	3.2	0.05	0.025	2	0.25	0.1
1540568	75	0.05	0.1	0.1	17	2.27	0.028	20	6	0.36	47	0.022	10	0.78	0.04	0.27	0.4	0.005	3.4	0.05	0.025	3	0.25	0.1
1540569	119	0.05	0.05	0.6	22	2.23	0.035	21	8	0.45	40	0.02	10	0.54	0.037	0.18	0.3	0.005	4.4	0.05	0.025	2	0.25	0.1
1540570	52	0.05	0.05	0.8	15	1.59	0.03	26	6	0.23	53	0.044	10	0.82	0.042	0.29	0.5	0.005	3.5	0.1	0.025	4	0.25	0.1
1540571	51	0.05	0.05	0.05	10	2.4	0.025	31	6	0.21	46	0.033	10	0.8	0.01	0.26	0.5	0.005	3.3	0.05	0.025	4	0.25	0.1
1540572	100	0.05	0.05	0.8	14	4.14	0.02	25	7	0.54	612	0.021	10	0.79	0.003	0.2	0.4	0.005	2.8	0.05	0.025	3	0.25	0.1
1540573	162	0.05	0.05	0.1	11	7.09	0.017	22	4	0.67	816	0.019	10	0.52	0.001	0.16	0.4	0.005	2.4	0.05	0.025	2	0.25	0.1
1540574	87	0.05	0.05	0.05	11	2.52	0.022	27	7	0.49	217	0.026	10	1	0.003	0.24	0.3	0.01	3.4	0.05	0.025	3	0.25	0.1
1540575	109	0.05	0.05	0.1	22	3.25	0.038	27	8	0.5	305	0.041	10	0.88	0.002	0.33	0.4	0.01	4.5	0.1	0.025	4	0.25	0.1
1540576	54	0.05	0.05	0.05	21	1.73	0.031	26	5	0.44	296	0.046	10	1.06	0.003	0.32	0.3	0.005	4.7	0.1	0.025	4	0.25	0.1
1540577	119	0.05	0.2	0.05	19	3.36	0.03	23	6	0.62	208	0.015	10	0.85	0.004	0.22	0.1	0.02	4.5	0.05	0.025	3	0.25	0.1
1540578	112	0.05	0.05	0.05	21	2.86	0.032	24	8	0.5	252	0.05	10	0.95	0.044	0.35	0.3	0.01	3.9	0.1	0.025	4	0.25	0.1
1540578																								
1540579	47	0.05	0.05	0.05	26	1.24	0.033	26	7	0.48	132	0.105	10	1.11	0.048	0.6	0.6	0.005	4.7	0.1	0.025	5	0.25	0.1
1540581	58	0.05	0.05	0.05	28	1.81	0.033	26	7	0.49	184	0.107	10	1.4	0.014	0.59	0.4	0.005	4.9	0.2	0.025	5	0.25	0.1
1540582	60	0.05	0.05	0.05	31	1.26	0.035	26	10	0.48	112	0.11	10	1.09	0.055	0.61	1	0.005	4.3	0.2	0.025	5	0.25	0.1
1540583	57	0.05	0.05	0.05	34	0.94	0.033	25	8	0.48	135	0.125	10	1.14	0.078	0.67	1.2	0.005	4.1	0.2	0.025	6	0.25	0.1
1540583	58	0.05	0.05	0.05	33	0.93	0.033	25	8	0.47	138	0.127	10	1.16	0.077	0.67	1.2	0.005	4.2	0.2	0.025	6	0.25	0.1
1540584	75	0.05	0.05	0.05	32	1.34	0.032	30	11	0.46	122	0.119	10	1.1	0.063	0.62	0.8	0.005	4	0.2	0.025	5	0.25	0.1
1540584	69	0.05	0.05	0.05	32	1.34	0.03	27	9	0.45	117	0.11	10	1.06	0.061	0.61	0.8	0.005	4	0.2	0.025	5	0.25	0.1
1540585	60	0.05	0.05	0.05	34	1.05	0.032	25	9	0.48	116	0.128	10	1.17	0.069	0.69	0.9	0.005	3.8	0.2	0.025	5	0.25	0.1
1540586	102	0.05	0.1	0.05	39	1.84	0.04	23	14	0.62	120	0.102	10	1.24	0.049	0.6	0.5	0.005	4.7	0.2	0.025	6	0.25	0.1
1540587	94	0.05	0.05	0.05	26	1.41	0.028	32	10	0.41	81	0.058	10	1.06	0.066	0.41	0.5	0.005	2.9	0.1	0.025	5	0.25	0.1
1540588	89	0.05	0.05	0.05	28	1.7	0.032	24	9	0.48	87	0.076	10	1.18	0.052	0.51	0.4	0.005	3.7	0.1	0.025	6	0.25	0.1
1540589	79	0.05	0.05	0.05	29	1.04	0.03	27	10	0.46	100	0.115	10	1.06	0.064	0.59	0.8	0.005	4	0.2	0.025	5	0.25	0.1
1540590	140	0.05	0.05	0.05	36	2.58	0.038	28	12	0.58	124	0.108	10	1.26	0.061	0.63	0.5	0.005	4.5	0.2	0.025	6	0.25	0.1
1540591	101	0.05	0.05	0.05	30	1.13	0.034	27	8	0.52	105	0.119	10	1.22	0.061	0.67	0.7	0.005	3.7	0.2	0.025	6	0.25	0.1
1540592	151	0.05	0.05	0.05	31	1.05	0.033	24	11	0.53	107	0.11	10	1.31	0.08	0.67	0.7	0.005	4	0.2	0.025	6	0.25	0.1
1540593	179	0.05	0.05	0.05	32	1.16	0.043	22	11	0.61	87	0.087	10	1.18	0.054	0.53	0.6	0.005	3.4	0.2	0.025	5	0.25	0.1
1540594	162	0.05	0.05	0.05	28	1.1	0.032	22	10	0.49	94	0.089	10	1.2	0.077	0.57	0.4	0.005	3.8	0.2	0.025	6	0.25	0.1
1540595	87	0.05	0.05	0.05	29	1.17	0.034	28	10	0.54	97	0.117	10	1.19	0.061	0.65	0.7	0.005	4.2	0.2	0.025	6	0.25	0.1
1540596	206	0.05	0.05	0.05	24	1.88	0.033	28	11	0.56	109	0.075	10	1.12	0.057	0.47	0.5	0.005	3.7	0.1	0.025	6	0.25	0.1
1540597	63	0.05	0.05	0.05	23	1.23	0.033	24	8	0.5	112	0.082	10	1.03	0.057	0.49	0.6	0.005	3.6	0.1	0.025	5	0.25	0.1
1540598	93	0.05	0.05	0.05	36	2.38	0.039	24	11	0.57	105	0.111	10	1.37	0.055	0.62	0.5	0.005	5.2	0.2	0.025	7	0.25	0.1
1540599	89	0.05	0.05	0.05	46	2.34	0.051	24	10	0.74	125	0.131	10	1.38	0.04	0.69	0.4	0.005	5.8	0.2	0.025	7	0.25	0.1
1540601	88	0.05	0.05	0.05	30	2.27	0.036	25	8	0.45	126	0.072	10	1.11	0.033	0.45	0.4	0.005	4.7	0.1	0.025	5	0.25	0.1
1540602	67	0.05	0.05	0.05	31	1.16	0.037	26	12	0.49	126	0.122	10	1.21	0.07	0.65	0.6	0.005	4.4	0.2	0.025	6	0.25	0.1
1540540	78	0.2	4.2	0.5	108	0.98	0.059	8	19	0.89	132	0.158	10	1.85	0.201	0.25	5.6	0.15	3.3	0.1	0.025	5	0.25	0.1
1540560	286	0.3	1.4	0.05	16	21.45	0.016	2	3	10.41	16	0.002	10	0.11	0.003	0.02	0.2	0.005	0.4	0.05	0.025	0.5	0.25	0.1
1540580	79	0.2	1.6	0.1	66	1.91	0.031	9	109	1.45	127	0.109	10	2.79	0.337	0.23	1	0.04	3.3	0.05	0.09	6	0.25	0.1
1540600	277	0.3	1.3	0.05	16	20.26	0.014	1	3	11.45	18	0.003	10	0.12	0.002	0.02	0.2	0.005	0.4	0.05	0.025	0.5	0.25	0.1
1540603	12	0.05	0.1	0.05	18	0.22	0.02	19	7	0.23	88	0.042	10	1.03	0.028	0.28	0.4	0.005	3.2	0.05	0.025	4	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pct	as_pp	au_ppl	th_pp
1540604	17L00024	5	10	SR03	25	Dry	Rock	WHI17000192	3.75	0.0025	1.1	3.8	2.1	19	0.05	3.6	2.3	257	1.03	0.25	1.6	12.9
1540605	17L00024	10	15	SR03	30	Dry	Rock	WHI17000192	4.36	0.0025	0.8	2.9	3.2	23	0.05	1.8	2.5	351	1.05	0.25	0.25	12.6
1540606	17L00024	15	20	SR03	20	Dry	Rock	WHI17000192	3.07	0.0025	0.6	3.2	2.4	20	0.05	2.2	2	251	1.01	0.25	1	15.2
1540607	17L00024	20	25	SR03	20	Dry	Rock	WHI17000192	3.15	0.0025	0.7	3.3	2.7	19	0.05	2.4	2.2	298	1.12	0.25	0.8	12.3
1540608	17L00024	25	30	SR03	20	Dry	Rock	WHI17000192	3.15	0.0025	0.5	3.6	3	22	0.05	1.3	2.4	312	1.06	0.25	0.9	13.6
1540609	17L00024	30	35	SR03	20	Dry	Rock	WHI17000192	3.38	0.0025	0.6	2.1	2.3	29	0.05	1.9	1.8	250	1.01	0.25	0.7	9
1540610	17L00024	35	40	SR03	20	Dry	Rock	WHI17000192	3.12	0.0025	0.6	1.3	5.6	32	0.05	1.9	1.5	302	0.8	0.25	0.8	2
1540611	17L00024	40	45	SR03	20	Dry	Rock	WHI17000192	2.88	0.0025	0.5	2.7	3.4	26	0.05	1.2	2.2	292	0.96	0.25	0.25	11.3
1540612	17L00024	45	50	SR03	20	Dry	Rock	WHI17000192	2.2	0.01	0.7	5.7	5.1	29	0.05	2.2	3.5	337	1.27	0.25	2.1	8.2
1540613	17L00024	50	55	SR03	20	Dry	Rock	WHI17000192	3.18	0.0025	0.7	4.4	5.7	63	0.05	2.9	4.3	421	1.41	3.8	2.2	1.5
1540614	17L00024	55	60	SR03	20	Dry	Rock	WHI17000192	2.89	0.0025	0.7	4.3	3.8	25	0.05	1.3	3.1	377	1.24	0.25	0.25	10.6
1540615	17L00024	60	65	SR03	20	Dry	Rock	WHI17000192	2.94	0.0025	0.9	3.9	3.4	18	0.05	1.6	2.1	325	0.98	0.25	0.25	13.5
1540616	17L00024	65	70	SR03	20	Dry	Rock	WHI17000192	2.97	0.0025	1.4	4.4	3	16	0.05	2.3	2.3	276	0.91	0.25	1.8	12.7
1540617	17L00024	70	75	SR03	20	Dry	Rock	WHI17000192	3.68	0.0025	1.1	3.4	3	20	0.05	1.4	2.3	301	0.96	0.25	1.8	15.3
1540618	17L00024	75	80	SR03	20	Dry	REP	WHI17000192		0.0025	1.3	3.5	3.4	27	0.05	2.2	2.7	391	1.3	0.25	0.7	11.3
1540618	17L00024	75	80	SR03	20	Dry	Rock	WHI17000192	2.97	0.0025	1.2	2.9	3.3	25	0.05	2	2.9	397	1.29	0.25	0.6	11.1
1540618	17L00024	75	80	SR03	20	Dry	DUP	WHI17000192			1.2	2.7	3.4	27	0.05	2	2.5	380	1.27	0.25	1	11.1
1540619	17L00024	80	85	SR03	20	Dry	Rock	WHI17000192	3	0.0025	1.5	3.4	3.2	25	0.05	1.8	2.5	428	1.21	0.25	0.8	12.1
1540621	17L00024	85	90	SR03	20	Dry	Rock	WHI17000192	3.14	0.005	1.8	3.6	4.5	24	0.05	2.4	2.4	413	1.03	0.25	1.5	10.9
1540622	17L00024	90	95	SR03	20	Dry	Rock	WHI17000192	2.15	0.882	7.5	10.1	5.7	21	0.5	1.8	5.8	552	1.17	0.25	931.9	9.4
1540623	17L00024	95	100	SR03	20	Dry	Rock	WHI17000192	2.6	0.026	27.3	9.8	5.8	41	0.05	2.3	4.4	497	1.8	0.25	24.2	9.1
1540624	17L00024	100	105	SR03	20	Dry	Rock	WHI17000192	2.88	0.013	2.8	7.4	2.8	36	0.05	2.2	4.4	494	1.78	0.25	11.9	8.4
1540625	17L00024	105	110	SR03	20	Dry	Rock	WHI17000192	3.09	0.016	2.5	6.2	2.8	43	0.05	1.4	4.4	470	1.89	0.25	13	9.8
1540626	17L00024	110	115	SR03	20	Dry	Rock	WHI17000192	3.17	0.008	2.2	5.2	2.1	35	0.05	2.3	4.4	475	1.92	0.25	3.3	8.9
1540627	17L00024	115	120	SR03	20	Dry	Rock	WHI17000192	3.27	0.006	1.9	6.8	2.5	43	0.05	1.5	4.6	498	1.83	0.25	2.2	11.6
1540628	17L00024	120	125	SR03	20	Dry	Rock	WHI17000192	3.42	0.008	1.7	8.9	2.4	39	0.05	1.8	4.4	487	1.91	0.25	3.6	8.8
1540629	17L00024	125	130	SR03	20	Dry	Rock	WHI17000192	3.46	0.006	2.3	8	4.1	48	0.05	1.5	4.3	527	1.85	0.25	3.4	9.5
1540630	17L00024	130	135	SR03	20	Dry	Rock	WHI17000192	3.03	0.005	2.1	16.1	5.9	45	0.05	2.7	5.3	635	2.05	0.8	1.4	9.4
1540631	17L00024	135	140	SR03	20	Dry	Rock	WHI17000192	3.4	0.0025	0.9	4	5.3	35	0.05	2.2	4.3	588	1.7	0.25	1.7	7.8
1540632	17L00024	140	145	SR03	20	Dry	Rock	WHI17000192	3.23	0.0025	1	8.9	3.8	35	0.05	1.2	3.5	421	1.39	0.7	2.5	8.1
1540633	17L00024	145	150	SR03	20	Dry	REP	WHI17000192		0.0025												
1540633	17L00024	145	150	SR03	20	Dry	Rock	WHI17000192	3.23	0.0025	1.2	12.1	3.1	40	0.05	2.9	4.8	496	1.93	1	2.4	8.1
1540634	17L00024	150	155	SR03	20	Dry	Rock	WHI17000192	3.32	0.008	1.2	10.3	3.3	33	0.05	2.4	3.4	417	1.4	2.4	3	8.7
1540635	17L00024	155	160	SR03	20	Dry	Rock	WHI17000192	3.31	0.006	1.3	9.4	3.4	35	0.05	1.8	3.7	455	1.63	0.8	2.9	9.6
1540636	17L00024	160	165	SR03	20	Dry	Rock	WHI17000192	3.3	0.0025	2.1	16.4	4.3	45	0.05	3.2	5	597	2.1	0.9	2.9	8.8
1540637	17L00024	165	170	SR03	20	Dry	Rock	WHI17000192	3.42	0.0025	1.4	24.8	3.6	40	0.05	2.3	4.2	491	1.98	0.6	1.7	9
1540638	17L00024	170	175	SR03	20	Dry	Rock	WHI17000192	3.27	0.0025	1.3	35.8	4	43	0.05	1.7	6.4	670	2.23	0.25	1.4	7.5
1540639	17L00024	175	180	SR03	20	Dry	Rock	WHI17000192	3.48	0.0025	1.6	27.8	3.2	44	0.05	2.6	5.7	594	2.22	0.25	1.1	8.9
1540641	17L00024	180	185	SR03	20	Dry	Rock	WHI17000192	3.31	0.0025	1.2	6.2	3.4	42	0.05	1.4	4.3	557	1.8	0.25	1.8	9.8
1540642	17L00024	185	190	SR03	20	Dry	Rock	WHI17000192	3.51	0.0025	1.3	2.7	2.6	38	0.05	2.3	4.5	558	1.94	0.25	3.1	9.2
1540643	17L00024	190	195	SR03	20	Dry	Rock	WHI17000192	3.33	0.0025	1.5	35.9	3.2	39	0.05	1.6	4.2	493	1.8	0.25	2.1	9.4
1540644	17L00024	195	200	SR03	20	Dry	Rock	WHI17000192	3.28	0.0025	2.3	38.4	2.8	39	0.05	2	4.9	532	2.06	0.25	0.8	9.3
1540645	17L00024	200	205	SR03	20	Dry	Rock	WHI17000192	3	0.0025	1.6	29.2	3.5	45	0.05	4.4	5.5	596	2.16	0.25	3.1	9.6

Appendix II

sample	sr_pi	cd_ppr	sbbpm	bippm	vppm	capct	p_pct	la_cr	mg_pc	ba_pi	tipct	bppi	al_pc	na_pc	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga	seppm	teppr	
1540604	9	0.05	0.05	0.05	7	0.54	0.017	26	6	0.17	51	0.034	10	0.74	0.006	0.29	1.4	0.005	1.7	0.05	0.025	3	0.25	0.1
1540605	26	0.05	0.05	0.05	7	1.65	0.018	26	3	0.21	70	0.042	10	0.91	0.014	0.37	1	0.005	1.6	0.1	0.025	3	0.25	0.1
1540606	16	0.05	0.05	0.05	8	0.59	0.014	25	4	0.18	61	0.047	10	0.7	0.03	0.32	1	0.005	2.1	0.1	0.025	3	0.25	0.1
1540607	20	0.05	0.05	0.05	9	0.8	0.014	27	6	0.17	65	0.046	10	0.69	0.047	0.32	0.9	0.005	2	0.1	0.025	3	0.25	0.1
1540608	25	0.05	0.05	0.05	10	0.98	0.016	29	3	0.19	76	0.051	10	0.7	0.032	0.33	0.8	0.005	2.5	0.1	0.025	3	0.25	0.1
1540609	22	0.05	0.05	0.05	9	0.98	0.016	19	4	0.22	79	0.044	10	0.77	0.055	0.34	0.8	0.005	1.7	0.1	0.025	4	0.25	0.1
1540610	50	0.05	0.05	0.05	9	3.52	0.016	6	4	0.14	89	0.024	10	0.78	0.007	0.19	0.3	0.005	1.6	0.05	0.025	4	0.25	0.1
1540611	31	0.05	0.1	0.05	8	1.35	0.018	24	2	0.19	66	0.036	10	0.99	0.006	0.32	0.5	0.005	1.9	0.05	0.025	4	0.25	0.1
1540612	41	0.05	0.1	0.05	20	2.38	0.033	20	5	0.19	74	0.027	10	0.9	0.003	0.26	0.4	0.005	3.3	0.05	0.025	4	0.25	0.1
1540613	53	0.05	0.8	0.05	29	3.14	0.05	9	9	0.33	114	0.032	10	1.03	0.017	0.35	0.4	0.005	2.8	0.1	0.025	6	0.25	0.1
1540614	51	0.05	0.05	0.05	17	2.05	0.025	23	4	0.26	89	0.05	10	0.9	0.01	0.38	0.6	0.005	3.2	0.1	0.025	4	0.25	0.1
1540615	35	0.05	0.05	0.05	9	1.55	0.017	24	4	0.13	68	0.031	10	0.87	0.003	0.3	0.4	0.005	2.3	0.1	0.025	3	0.25	0.1
1540616	25	0.05	0.05	0.05	7	1.31	0.018	25	6	0.09	70	0.015	10	0.62	0.003	0.2	0.4	0.005	2.1	0.05	0.025	2	0.25	0.1
1540617	29	0.05	0.05	0.05	8	1.77	0.015	23	3	0.1	109	0.02	10	0.81	0.002	0.21	0.4	0.005	2.3	0.05	0.025	3	0.25	0.1
1540618	33	0.05	0.05	0.05	12	2.33	0.021	25	5	0.16	222	0.033	10	0.79	0.003	0.27	0.4	0.005	2.4	0.05	0.025	3	0.25	0.1
1540618	33	0.05	0.05	0.05	12	2.39	0.019	25	5	0.15	223	0.033	10	0.73	0.002	0.27	0.4	0.005	2.3	0.05	0.025	3	0.25	0.1
1540618	33	0.05	0.05	0.05	12	2.33	0.02	25	4	0.15	210	0.032	10	0.72	0.001	0.26	0.4	0.005	2.5	0.1	0.025	3	0.25	0.1
1540619	33	0.05	0.05	0.05	12	1.99	0.022	25	4	0.16	106	0.037	10	0.83	0.003	0.3	0.4	0.005	2.5	0.1	0.025	3	0.25	0.1
1540621	65	0.05	0.05	0.05	10	2.51	0.018	21	6	0.14	114	0.029	10	0.86	0.003	0.23	0.5	0.005	2.6	0.05	0.025	4	0.25	0.1
1540622	45	0.05	0.1	0.5	11	1.85	0.031	21	5	0.11	176	0.006	10	0.89	0.004	0.29	0.3	0.06	3	0.05	0.025	3	0.25	1.1
1540623	50	0.05	0.1	0.1	19	1.47	0.03	25	6	0.32	125	0.059	10	1.04	0.043	0.43	0.4	0.005	3.9	0.1	0.025	4	0.25	0.1
1540624	34	0.05	0.05	0.05	20	1.01	0.03	30	6	0.34	121	0.07	10	0.91	0.044	0.42	0.5	0.005	3.3	0.1	0.025	4	0.25	0.1
1540625	40	0.05	0.1	0.05	25	1.04	0.035	27	5	0.35	121	0.068	10	1.03	0.057	0.42	0.2	0.005	4.2	0.2	0.025	5	0.25	0.1
1540626	31	0.05	0.05	0.05	22	0.77	0.03	26	7	0.38	90	0.083	10	1	0.059	0.48	0.3	0.005	3.4	0.2	0.025	4	0.25	0.1
1540627	39	0.05	0.1	0.05	20	0.87	0.031	35	5	0.41	67	0.045	10	0.93	0.054	0.31	0.2	0.005	3.4	0.05	0.025	5	0.25	0.1
1540628	40	0.05	0.1	0.2	22	0.99	0.028	25	6	0.37	77	0.055	10	0.99	0.063	0.38	0.2	0.005	3.7	0.1	0.025	5	0.25	0.1
1540629	67	0.05	0.2	0.1	21	1.37	0.03	26	5	0.34	77	0.03	10	0.91	0.066	0.28	0.2	0.005	3.8	0.05	0.025	5	0.25	0.1
1540630	114	0.1	0.2	0.2	29	2.19	0.041	30	8	0.3	725	0.046	10	0.81	0.044	0.31	0.2	0.005	5.3	0.1	0.025	4	0.25	0.1
1540631	95	0.05	0.1	0.05	19	3.07	0.028	23	7	0.2	67	0.009	10	0.46	0.045	0.13	0.1	0.005	3.9	0.05	0.025	2	0.25	0.1
1540632	62	0.05	0.1	0.1	16	1.66	0.026	24	4	0.21	65	0.032	10	0.61	0.049	0.24	0.4	0.005	3.1	0.05	0.025	3	0.25	0.1
1540633																								
1540633	74	0.05	0.1	0.2	24	1.68	0.036	24	12	0.31	125	0.053	10	0.87	0.061	0.34	0.7	0.01	4.6	0.1	0.025	4	0.25	0.1
1540634	58	0.05	0.2	0.05	12	1.6	0.03	24	7	0.3	109	0.013	10	0.72	0.038	0.22	0.2	0.005	2.6	0.05	0.025	3	0.6	0.1
1540635	74	0.05	0.2	0.1	16	1.55	0.029	26	6	0.36	109	0.013	10	0.79	0.058	0.2	0.3	0.005	3.1	0.05	0.025	4	0.25	0.1
1540636	91	0.05	0.1	0.5	30	2.08	0.039	27	10	0.43	195	0.077	10	0.97	0.046	0.44	0.6	0.005	4.4	0.1	0.025	5	0.25	0.1
1540637	89	0.05	0.05	0.7	23	1.47	0.029	26	7	0.38	408	0.079	10	1	0.056	0.43	0.4	0.005	4.2	0.1	0.025	5	0.25	0.1
1540638	104	0.05	0.05	0.8	42	2.03	0.043	23	8	0.66	455	0.105	10	1.18	0.039	0.59	0.5	0.005	5.4	0.2	0.025	5	0.25	0.1
1540639	74	0.1	0.05	0.9	36	1.31	0.041	28	10	0.6	171	0.086	10	1.1	0.051	0.5	0.6	0.005	4.8	0.1	0.025	5	0.25	0.1
1540641	60	0.05	0.05	0.2	24	1.01	0.031	31	6	0.42	113	0.099	10	1.08	0.072	0.52	0.6	0.005	3.7	0.2	0.025	5	0.25	0.1
1540642	57	0.05	0.05	0.05	25	0.96	0.029	28	9	0.47	117	0.117	10	1.07	0.07	0.57	0.7	0.005	3.8	0.2	0.025	5	0.25	0.1
1540643	54	0.05	0.05	1.1	21	0.84	0.03	23	7	0.41	97	0.075	10	0.9	0.061	0.38	1.1	0.005	2.9	0.1	0.025	5	0.25	0.1
1540644	65	0.05	0.1	1.2	23	1	0.031	28	8	0.45	235	0.069	10	0.99	0.066	0.39	0.9	0.005	3.2	0.1	0.06	5	0.25	0.1
1540645	69	0.05	0.05	0.6	29	1.4	0.035	28	18	0.55	90	0.114	10	1.1	0.049	0.54	1.2	0.005	4.3	0.2	0.05	6	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pct	as_pp	au_ppl	th_pp	
1540646	17L00024	205	210	SR03	20	Dry	Rock	WHI17000192	2.63	0.0025	2	35.3	4.9	44	0.05	2.2	5.1	701	1.97	0.5	1.6	8.8	
1540647	17L00024	210	215	SR03	20	Dry	Rock	WHI17000192	2.98	0.0025	1.9	14.6	2.4	48	0.05	2.6	4.1	575	1.86	0.25	1.7	8.8	
1540648	17L00024	215	220	SR03	20	Dry	Rock	WHI17000192	3.16	0.0025	2.1	27.5	4.6	31	0.05	2	2.5	373	1.41	0.25	1.2	10.8	
1540649	17L00024	220	225	SR03	20	Dry	Rock	WHI17000192	2.91	0.0025	3	17.5	3.8	27	0.05	2.5	3.3	450	1.35	0.25	1.7	10	
1540650	17L00024	225	230	SR03	20	Dry	Rock	WHI17000192	2.89	0.005	1.8	42	3.5	44	0.05	1.1	4.2	569	1.71	0.25	0.9	8.2	
1540651	17L00024	230	235	SR03	20	Dry	Rock	WHI17000192	3.19	0.006	2	12	1.6	45	0.05	2	3.5	453	1.65	0.25	1.4	9.2	
1540652	17L00024	235	240	SR03	20	Dry	Rock	WHI17000192		0.0025	2.3	33.7	3.4	35	0.05	3.1	3	430	1.37	0.25	1.3	10.8	
1540652	17L00024	235	240	SR03	20	Dry	REP	WHI17000192		0.0025													
1540652	17L00024	235	240	SR03	20	Dry	DUP	WHI17000192	3.39	0.0025	2.1	33	3.3	34	0.05	1.9	3.1	428	1.36	0.25	2	10.7	
1540653	17L00024	240	245	SR03	20	Dry	Rock	WHI17000192	2.93	0.0025	2.1	4.6	2.4	28	0.05	2.2	2.9	437	1.33	0.25	2.2	10.8	
1540654	17L00024	245	250	SR03	20	Dry	Rock	WHI17000192	2.93	0.0025	1.8	4	2.2	38	0.05	1.4	4.2	535	1.61	0.25	0.7	9.8	
1540655	17L00024	250	255	SR03	20	Dry	Rock	WHI17000192	3.35	0.0025	1.5	4	1.8	37	0.05	2.2	4.9	508	2	0.25	0.25	9.7	
1540656	17L00024	255	260	SR03	20	Dry	Rock	WHI17000192	3.3	0.0025	1.5	3.3	2.1	41	0.05	2.6	5.2	513	1.95	0.25	0.9	8.7	
1540657	17L00024	260	265	SR03	20	Dry	Rock	WHI17000192	3.45	0.0025	1.3	8.4	2.2	40	0.05	1.9	4.6	503	1.89	0.25	1.8	8.7	
1540658	17L00024	265	270	SR03	20	Dry	Rock	WHI17000192	3.08	0.0025	1.5	5.3	1.8	37	0.05	2.1	4.2	482	1.77	0.25	0.25	7.7	
1540659	17L00024	270	275	SR03	20	Dry	Rock	WHI17000192	3.18	0.0025	1.4	3.9	2.2	39	0.05	2.5	4.9	637	2.05	0.25	1.9	9.6	
1540661	17L00024	275	280	SR03	20	Dry	Rock	WHI17000192	3.85	0.0025	1.3	3.7	2.3	40	0.05	1.6	5	616	2.07	0.25	0.9	10.2	
1540662	17L00024	280	285	SR03	20	Dry	Rock	WHI17000192	3.63	0.0025	1.3	4.7	2.8	38	0.05	2.1	4.3	524	1.87	0.25	0.25	7.9	
1540663	17L00024	285	290	SR03	20	Dry	Rock	WHI17000192	3.24	0.0025	1.4	3.9	3.1	34	0.05	2.3	4.1	507	1.65	0.25	0.25	7.1	
1540664	17L00024	290	295	SR03	20	Dry	Rock	WHI17000192	3.23	0.0025	1.3	4.1	2.8	45	0.05	1.8	3.5	572	1.64	0.25	1.4	4.2	
1540665	17L00024	295	300	SR03	20	Dry	Rock	WHI17000192	2.98	0.0025	1.3	4.6	3.5	43	0.05	2.3	5.4	606	2.1	0.25	0.9	7.6	
1540666	17L00024	300	305	SR03	20	Dry	Rock	WHI17000192	3.1	0.0025	1.5	5.4	4.3	50	0.05	3.1	5.8	604	2.14	0.6	1.1	7.6	
1540667	17L00024	305	310	SR03	20	Dry	Rock	WHI17000192	2.92	0.0025	1.2	5.6	3.9	46	0.05	1.6	4.6	557	1.84	0.25	0.25	8.3	
1540668	17L00024	310	315	SR03	20	Dry	Rock	WHI17000192	3.29	0.0025	1.3	5.5	2.5	40	0.05	2.6	5	466	2.01	0.25	1	7.9	
1540669	17L00024	315	320	SR03	20	Dry	Rock	WHI17000192	3.38	0.0025	1.4	5.1	3.1	37	0.05	2.8	5.4	509	1.94	0.6	0.7	8.4	
1540670	17L00024	320	325	SR03	20	Dry	Rock	WHI17000192	3.08	0.0025	1.3	5.3	2.1	40	0.05	1.6	4.8	506	1.94	0.25	0.25	11.3	
1540671	17L00024	325	330	SR03	20	Dry	Rock	WHI17000192	3.33	0.0025	1.5	6.3	2	38	0.05	2.2	5	526	2.02	0.25	1	8.6	
1540620	17L00024			SR03			CDN-GS-5U	WHI17000192	0.09	5.34	8.5	204	23.9	80	0.9	14.9	10.9	594	4.36	12.3	5695	3.1	
1540640	17L00024			SR03			Coarse Blar	WHI17000192	0.15	0.006	0.4	4.3	4.4	26	0.1	2.6	0.8	148	0.3	3.3	1.8	0.8	
1540660	17L00024			SR03			CDN-GS-P4F	WHI17000192	0.08	0.587	6.3	279	14.8	50	0.7	112.1	14.8	448	2.8	166	322.5	3.3	
1540672	17L00025	0	5	SR03	15	Dry	Rock	WHI17000192	1.18	0.0025	1.8	6	2.4	19	0.05	7.4	2.5	253	1.28	0.25	2.2	13.9	
1540673	17L00025	5	10	SR03	27	Dry	Rock	WHI17000192	4.46	0.0025	1.1	5.7	2.9	25	0.05	3.4	2	305	1.01	0.25	0.25	11.4	
1540674	17L00025	10	15	SR03	32	Dry	Rock	WHI17000192	5.13	0.0025	0.8	3.9	2.8	36	0.05	4	2.4	277	1.1	0.25	0.25	5.8	
1540675	17L00025	15	20	SR03	19	Dry	Rock	WHI17000192	2.66	0.012	0.6	10.5	3.9	38	0.05	4.3	4.5	330	1.36	0.25	1.1	3.7	
1540676	17L00025	20	25	SR03	20	Dry	Rock	WHI17000193	3.02	0.0025	0.6	6.9	1.9	35	0.05	2.3	3.9	383	1.55	0.25	0.25	11.1	
1540677	17L00025	25	30	SR03	20	Dry	Rock	WHI17000193		3	0.0025	0.5	2	2.1	32	0.05	1.8	3.4	492	1.61	0.25	0.25	11
1540678	17L00025	30	35	SR03	20	Dry	Rock	WHI17000193	3.66	0.0025	0.9	4.4	2.1	25	0.05	1.3	2.7	343	1.32	0.25	0.7	15	
1540679	17L00025	35	40	SR03	20	Dry	Rock	WHI17000193		0.0025													
1540679	17L00025	35	40	SR03	20	Dry	REP	WHI17000193	4.02	0.0025	0.6	2.4	2.3	27	0.05	2	2.5	407	1.26	0.25	0.25	12.9	
1540681	17L00025	40	45	SR03	17	Dry	Rock	WHI17000193	1.63	0.0025	3.6	5	2	20	0.05	1.1	1.9	252	1.07	0.7	0.25	14.7	
1540682	17L00025	45	50	SR03	20	Dry	Rock	WHI17000193	3.8	0.0025	0.7	2.3	2.2	25	0.05	0.9	1.9	234	1.08	0.25	0.25	12.2	
1540683	17L00025	50	55	SR03	20	Dry	Rock	WHI17000193	2.82	0.0025	0.7	3.6	2.6	21	0.05	0.9	2	302	0.99	0.5	0.25	12.5	
1540684	17L00025	55	60	SR03	20	Dry	Rock	WHI17000193	3.32	0.014	0.6	2.7	3.3	23	0.05	1.1	1.7	321	0.86	0.25	12.3	8.4	

Appendix II

sample	sr_pct	cd_ppm	sbppm	bipppm	vppm	capct	p_pct	la_pct	cr_pct	mg_pct	ba_pct	tipct	bppct	al_pct	na_pct	k_pct	w_ppm	hgppm	sc_ppm	tlppm	s_pct	ga_pct	seppm	teppm	
1540646	66	0.1	0.05	1.3	21	1.87	0.031	25	8	0.48	91	0.078	10	1.1	0.046	0.41	0.5	0.04	3.9	0.2	0.025	6	0.25	0.1	
1540647	36	0.05	0.05	0.3	20	1.04	0.027	25	9	0.49	87	0.094	10	1.06	0.064	0.49	0.7	0.02	3.6	0.1	0.025	7	0.25	0.1	
1540648	36	0.05	0.05	0.3	13	0.85	0.023	28	8	0.26	568	0.051	10	0.78	0.065	0.31	0.7	0.005	2.4	0.05	0.025	4	0.25	0.1	
1540649	52	0.05	0.1	0.3	14	1.75	0.026	26	8	0.28	59	0.04	10	0.74	0.042	0.26	0.5	0.02	2.6	0.05	0.025	4	0.25	0.1	
1540650	52	0.05	0.05	1.5	20	1.89	0.028	27	6	0.38	73	0.061	10	1.07	0.048	0.37	0.4	0.01	3.9	0.1	0.025	5	0.25	0.1	
1540651	27	0.05	0.05	0.2	17	0.67	0.027	25	9	0.43	103	0.093	10	0.91	0.071	0.46	1.1	0.01	3.3	0.1	0.025	5	0.25	0.1	
1540652	38	0.05	0.05	0.6	14	1.07	0.026	27	8	0.29	67	0.059	10	0.78	0.066	0.33	0.8	0.005	2.9	0.1	0.025	4	0.25	0.1	
1540652																									
1540652	37	0.1	0.05	0.5	14	1.08	0.026	27	7	0.29	64	0.059	10	0.74	0.056	0.32	0.9	0.005	2.8	0.1	0.025	4	0.25	0.1	
1540653	50	0.05	0.05	0.05	13	1.31	0.025	25	9	0.3	51	0.046	10	0.75	0.06	0.3	0.6	0.01	2.7	0.05	0.025	4	0.25	0.1	
1540654	66	0.05	0.05	0.05	21	1.86	0.031	26	6	0.49	134	0.073	10	0.97	0.038	0.42	0.4	0.005	3.3	0.1	0.025	4	0.25	0.1	
1540655	59	0.05	0.05	0.05	32	0.66	0.031	25	9	0.45	106	0.121	10	1.08	0.076	0.6	0.9	0.005	3.7	0.2	0.025	5	0.25	0.1	
1540656	70	0.05	0.05	0.05	31	1.05	0.035	26	9	0.48	133	0.102	10	1.03	0.056	0.54	0.7	0.005	3.2	0.2	0.025	5	0.25	0.1	
1540657	56	0.05	0.05	0.05	28	0.82	0.036	22	8	0.5	87	0.089	10	1.09	0.081	0.49	0.5	0.005	3.5	0.1	0.025	5	0.25	0.1	
1540658	48	0.05	0.05	0.05	24	0.88	0.029	21	8	0.47	83	0.084	10	0.96	0.075	0.43	0.5	0.005	3.4	0.1	0.025	5	0.25	0.1	
1540659	72	0.05	0.05	0.05	31	1.27	0.032	27	9	0.57	71	0.074	10	1.07	0.069	0.39	0.3	0.005	4	0.05	0.025	6	0.25	0.1	
1540661	81	0.05	0.05	0.05	34	1.3	0.036	29	7	0.57	108	0.117	10	1.19	0.064	0.59	0.4	0.005	4.3	0.2	0.025	6	0.25	0.1	
1540662	107	0.05	0.1	0.05	25	1.46	0.03	24	9	0.45	63	0.054	10	1.03	0.059	0.36	0.3	0.005	3.7	0.1	0.025	5	0.25	0.1	
1540663	58	0.05	0.05	0.05	27	1.25	0.028	22	9	0.43	70	0.062	10	0.92	0.056	0.37	0.4	0.005	3	0.1	0.025	5	0.25	0.1	
1540664	64	0.05	0.05	0.05	31	1.25	0.03	11	9	0.47	135	0.091	10	1.02	0.074	0.48	0.7	0.005	2.6	0.1	0.025	5	0.25	0.1	
1540665	113	0.05	0.05	0.05	33	1.68	0.041	23	9	0.6	109	0.052	10	1.14	0.052	0.36	0.3	0.005	3.6	0.1	0.025	6	0.25	0.1	
1540666	87	0.05	0.05	0.05	31	1.43	0.037	24	11	0.66	58	0.055	10	1.24	0.048	0.35	0.3	0.02	4.3	0.05	0.06	7	0.25	0.1	
1540667	109	0.05	0.2	0.05	27	1.22	0.034	25	7	0.48	85	0.096	10	1.08	0.047	0.47	0.4	0.02	4.4	0.1	0.05	6	0.25	0.1	
1540668	65	0.05	0.05	0.05	36	1.09	0.032	22	9	0.45	96	0.096	10	1.12	0.066	0.51	0.6	0.005	3.8	0.2	0.14	6	0.25	0.1	
1540669	140	0.05	0.1	0.05	26	1.62	0.034	25	9	0.43	60	0.066	10	1.09	0.035	0.42	0.3	0.02	3.8	0.1	0.025	6	0.25	0.1	
1540670	73	0.05	0.05	0.05	28	1.07	0.032	35	8	0.46	94	0.117	10	1.2	0.073	0.62	0.6	0.005	4.1	0.2	0.025	5	0.25	0.1	
1540671	82	0.05	0.05	0.05	29	1.16	0.034	23	9	0.47	96	0.114	10	1.11	0.057	0.59	0.8	0.005	3.7	0.2	0.025	5	0.25	0.1	
1540620	77	0.2	4.4	0.5	107	1	0.059	8	19	0.89	142	0.16	10	1.86	0.201	0.24	5.5	0.19	3.4	0.05	0.025	6	0.25	0.1	
1540640	255	0.2	1.5	0.05	17	19.37	0.014	3	4	10.46	32	0.008	10	0.23	0.005	0.05	0.2	0.01	0.8	0.05	0.025	0.5	0.25	0.1	
1540660	79	0.3	1.7	0.1	65	1.74	0.033	9	109	1.42	126	0.106	10	2.69	0.317	0.22	1	0.03	2.9	0.05	0.09	6	0.25	0.1	
1540672	11	0.05	0.05	0.05	10	0.1	0.018	26	12	0.18	67	0.044	10	0.74	0.064	0.3	0.6	0.005	2.5	0.1	0.025	4	0.25	0.1	
1540673	10	0.05	0.05	0.05	8	0.17	0.015	40	6	0.15	66	0.036	10	0.63	0.052	0.26	0.8	0.005	2.1	0.1	0.025	3	0.25	0.1	
1540674	31	0.05	0.05	0.05	17	1.03	0.022	14	10	0.22	69	0.032	10	0.74	0.075	0.27	0.8	0.005	2.1	0.05	0.025	4	0.25	0.1	
1540675	38	0.05	0.05	0.05	25	1.46	0.032	9	13	0.41	79	0.036	10	0.83	0.05	0.29	0.6	0.005	2.6	0.1	0.025	5	0.25	0.1	
1540676	26	0.05	0.05	0.05	20	0.93	0.027	22	11	0.46	65	0.079	10	0.79	0.036	0.42	0.8	0.005	2.6	0.1	0.025	5	0.25	0.1	
1540677	25	0.05	0.05	0.05	18	0.79	0.029	25	4	0.41	70	0.091	10	0.85	0.027	0.47	0.7	0.005	2.9	0.2	0.025	5	0.25	0.1	
1540678	23	0.05	0.05	0.05	11	0.78	0.021	29	7	0.28	46	0.055	10	0.61	0.037	0.34	0.9	0.005	1.8	0.1	0.025	4	0.25	0.1	
1540679																									
1540679	23	0.05	0.05	0.05	11	0.9	0.02	25	5	0.29	47	0.046	10	0.61	0.024	0.29	0.8	0.005	1.9	0.1	0.025	4	0.25	0.1	
1540681	19	0.05	0.05	0.05	6	0.55	0.017	27	3	0.15	29	0.028	10	0.4	0.028	0.18	0.6	0.005	1.5	0.05	0.025	3	0.25	0.1	
1540682	18	0.05	0.05	0.05	9	0.96	0.019	23	6	0.16	36	0.017	10	0.45	0.024	0.17	0.6	0.005	1.5	0.05	0.025	3	0.25	0.1	
1540683	22	0.05	0.05	0.05	7	1.32	0.018	24	3	0.12	49	0.022	10	0.38	0.017	0.16	0.7	0.005	1.7	0.05	0.025	2	0.25	0.1	
1540684	33	0.05	0.05	0.05	9	2.53	0.036	17	5	0.07	65	0.007	10	0.34	0.025	0.15	0.4	0.005	1	0.05	0.025	1	0.25	0.1	

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pc	as_pp	au_ppl	th_pp
1540685	17L00025	60	65	SR03	20	Dry	Rock	WHI17000193	3.41	0.0025	0.6	3.3	2.9	24	0.05	1.1	2.1	297	1.06	0.25	1.9	12.2
1540686	17L00025	65	70	SR03	20	Dry	Rock	WHI17000193	3.57	0.0025	0.8	2.5	3.7	24	0.05	0.8	2.1	312	1.26	0.25	0.9	13.6
1540687	17L00025	70	75	SR03	20	Dry	Rock	WHI17000193	3.71	0.0025	0.7	2.7	2.9	19	0.05	1.1	1.8	325	0.99	0.5	0.25	13.8
1540688	17L00025	75	80	SR03	20	Dry	Rock	WHI17000193	3.37	0.015	1	3.1	2.7	18	0.05	0.9	1.8	306	1.02	0.25	13	13.8
1540689	17L00025	80	85	SR03	20	Dry	Rock	WHI17000193	3.56	0.0025	0.8	2.1	2.9	25	0.05	1.2	3	466	1.47	0.25	0.6	14.5
1540690	17L00025	85	90	SR03	20	Dry	Rock	WHI17000193	3.09	0.0025	0.8	5.7	3.7	29	0.05	3.1	3.5	508	1.45	0.25	0.25	12.2
1540691	17L00025	90	95	SR03	20	Dry	Rock	WHI17000193	3.3	0.0025	0.9	6.1	3.8	34	0.05	6.8	4.8	792	1.77	0.5	0.25	9.5
1540692	17L00025	95	100	SR03	20	Dry	Rock	WHI17000193	3.6	0.0025	1.7	2	3	45	0.05	1.3	2.1	489	1.23	0.25	0.9	10.7
1540693	17L00025	100	105	SR03	20	Dry	Rock	WHI17000193	3.58	0.0025	1.8	5.4	3.3	27	0.05	1.1	2.2	359	1.21	0.25	0.25	13.1
1540694	17L00025	105	110	SR03	20	Dry	Rock	WHI17000193	3.77	0.0025	1.5	3.9	3.1	23	0.05	1.3	1.9	360	1.18	0.25	0.25	11.7
1540695	17L00025	110	115	SR03	20	Dry	DUP	WHI17000193		0.011	1.5	3.1	2.8	17	0.05	1.3	1.8	252	0.93	1.2	10.4	9.1
1540695	17L00025	110	115	SR03	20	Dry	Rock	WHI17000193	3.7	0.014	1.3	3	2.7	17	0.05	1.2	1.7	258	0.91	1	11.8	9.1
1540696	17L00025	115	120	SR03	20	Dry	Rock	WHI17000193	3.86	0.021	1	5	2.1	23	0.05	1.3	2	299	1.16	0.25	1.8	11.7
1540697	17L00025	120	125	SR03	20	Dry	REP	WHI17000193	4.25	0.0025	1	10.4	2.2	30	0.05	2	2.9	322	1.29	0.7	0.25	10.7
1540697	17L00025	120	125	SR03	20	Dry	Rock	WHI17000193			1	9.7	2.2	30	0.05	2.1	3	325	1.28	0.5	0.25	10.8
1540698	17L00025	125	130	SR03	20	Dry	Rock	WHI17000193	3.39	0.0025	1	4.1	1.3	30	0.05	1.1	3	421	1.51	0.6	0.25	11.7
1540699	17L00025	130	135	SR03	20	Dry	Rock	WHI17000193	4.04	0.0025	0.9	3.8	2.2	22	0.05	1.3	1.8	284	0.95	0.25	0.25	5.9
1540701	17L00025	135	140	SR03	20	Dry	Rock	WHI17000193	4.16	0.0025	1	3	3.1	38	0.05	1.1	1.9	358	1.17	0.25	1.2	8.2
1540702	17L00025	140	145	SR03	20	Dry	Rock	WHI17000193	3.14	0.014	0.9	7.7	2.6	29	0.05	1.2	1.9	258	1.07	0.25	9.1	10.1
1540703	17L00025	145	150	SR03	20	Dry	Rock	WHI17000193	3.08	0.0025	1.1	3.5	2.6	30	0.05	1.5	2.3	292	1.19	0.25	12.6	12
1540704	17L00025	150	155	SR03	20	Dry	Rock	WHI17000193	3.52	0.0025	0.8	4.1	2.3	34	0.05	1.3	2.4	333	1.18	0.25	1.1	11.9
1540705	17L00025	155	160	SR03	20	Dry	Rock	WHI17000193	3.61	0.0025	0.9	2.9	2.9	31	0.05	0.8	2.5	369	1.16	0.25	0.5	11.6
1540706	17L00025	160	165	SR03	20	Dry	Rock	WHI17000193	3.6	0.0025	1.3	6.4	2.7	36	0.05	2	3.4	442	1.45	0.25	1.3	11.1
1540707	17L00025	165	170	SR03	20	Dry	Rock	WHI17000193	3.09	0.0025	0.8	3.9	2.3	29	0.05	1.3	3	393	1.34	0.25	2.1	13.2
1540708	17L00025	170	175	SR03	20	Dry	Rock	WHI17000193	3.52	0.0025	1.7	33.5	1.8	44	0.05	1.1	2.2	257	1.13	0.25	1.6	14.2
1540709	17L00025	175	180	SR03	20	Dry	Rock	WHI17000193	3.27	0.0025	1.6	10.9	2.8	48	0.05	2.4	3.6	401	1.44	0.25	1.3	13.6
1540710	17L00025	180	185	SR03	20	Dry	Rock	WHI17000193	3.47	0.0025	1.3	3.5	1.6	26	0.05	1.3	1.9	261	1.03	0.25	1.1	13.7
1540711	17L00025	185	190	SR03	20	Dry	Rock	WHI17000193	3.17	0.0025	1.6	3.8	1.9	37	0.05	1.4	1.9	235	1.02	0.25	0.25	9.7
1540712	17L00025	190	195	SR03	20	Dry	Rock	WHI17000193	3.24	0.0025	1.2	3	1.8	30	0.05	1.2	3.1	410	1.48	0.25	0.25	11.2
1540713	17L00025	195	200	SR03	20	Dry	Rock	WHI17000193	3.13	0.0025	1.2	5.7	2.3	34	0.05	1.3	4.3	526	1.83	0.25	0.25	8.4
1540714	17L00025	200	205	SR03	20	Dry	Rock	WHI17000193	3.28	0.0025	1.6	2.3	1.7	35	0.05	1.1	4	468	1.83	0.25	0.25	8.5
1540715	17L00025	205	210	SR03	20	Dry	Rock	WHI17000193	3.48	0.0025	1.3	5.5	3.1	28	0.05	0.9	3.3	482	1.48	0.25	0.7	10
1540716	17L00025	210	215	SR03	20	Dry	Rock	WHI17000193	2.87	10	2	10.8	5.3	29	6.6	1.2	4.4	361	2.61	0.25	11987	8.3
1540717	17L00025	215	220	SR03	20	Dry	Rock	WHI17000193	3.87	2.31	1.7	4	8.3	27	1.2	0.9	3.6	738	1.54	0.25	1740	7.3
1540718	17L00025	220	225	SR03	20	Dry	Rock	WHI17000193	3.23	0.24	1.7	6.6	5.8	28	0.1	0.9	3.1	524	1.53	0.25	226.1	9.6
1540719	17L00025	225	230	SR03	20	Dry	Rock	WHI17000193	3.61	0.117	1	3.6	2.8	37	0.05	1.3	3.9	400	1.63	0.25	129.3	9.7
1540721	17L00025	230	235	SR03	20	Dry	Rock	WHI17000193	3.58	6.245	1.1	10	4.2	30	3.3	1.1	4.4	390	2.05	0.5	6050	9.9
1540722	17L00025	235	240	SR03	20	Dry	Rock	WHI17000193	3.56	0.152	1.1	5.8	3	25	0.05	1.3	2.9	457	1.43	0.25	148.7	10.6
1540723	17L00025	240	245	SR03	20	Dry	Rock	WHI17000193	3.46	0.259	1.5	12.9	4.3	30	0.2	1	3.7	452	1.56	0.7	256.7	8.3
1540724	17L00025	245	250	SR03	20	Dry	Rock	WHI17000193	3.18	0.082	1.3	14.2	3.7	36	0.05	1.3	4.1	524	1.75	0.25	72.5	8
1540725	17L00025	250	255	SR03	20	Dry	Rock	WHI17000193	3.3	0.061	1.7	3.5	3.4	35	0.05	1.2	4	501	1.62	0.25	62.1	8.5
1540726	17L00025	255	260	SR03	13	Dry	Rock	WHI17000193	2.76	0.112	1.8	3.3	2.4	36	0.05	1.7	4.2	441	1.75	0.25	107.1	8.6
1540727	17L00025	260	265	SR03	20	Dry	Rock	WHI17000193	2.61	0.051	2.3	3.6	1.8	38	0.05	2.1	4.5	472	2.01	0.25	46.7	9.7

Appendix II

sample	sr_pi	cd_ppr	sbppm	bippm	vppm	capct	p_pct	la_cr	mg_pc	ba_pr	tipct	bppi	al_pc	na_pc	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga	seppm	teppr	
1540685	38	0.05	0.05	0.05	11	1.77	0.023	24	3	0.14	48	0.031	10	0.45	0.014	0.21	0.5	0.005	2.1	0.05	0.025	2	0.25	0.1
1540686	41	0.05	0.05	0.05	10	2.28	0.021	25	5	0.13	62	0.027	10	0.48	0.012	0.19	0.4	0.005	2.4	0.05	0.025	3	0.25	0.1
1540687	34	0.05	0.05	0.05	7	2.01	0.016	26	3	0.09	47	0.022	10	0.39	0.005	0.16	0.5	0.005	2.2	0.05	0.025	2	0.25	0.1
1540688	26	0.05	0.05	0.05	7	1.4	0.015	26	5	0.09	57	0.021	10	0.39	0.002	0.16	0.5	0.005	2	0.05	0.025	2	0.25	0.1
1540689	42	0.05	0.05	0.05	14	1.8	0.024	29	4	0.23	108	0.06	10	0.71	0.013	0.37	0.5	0.005	3.4	0.2	0.025	4	0.25	0.1
1540690	64	0.05	0.05	0.05	17	2.69	0.022	22	8	0.23	81	0.047	10	0.64	0.021	0.3	0.5	0.005	3	0.1	0.025	3	0.25	0.1
1540691	70	0.05	0.05	0.05	25	4.37	0.029	22	21	0.38	85	0.041	10	0.62	0.015	0.27	0.5	0.005	4.4	0.1	0.025	4	0.25	0.1
1540692	28	0.05	0.05	0.05	9	2.07	0.016	23	6	0.16	212	0.026	10	0.51	0.014	0.19	0.6	0.005	2.1	0.05	0.025	3	0.25	0.1
1540693	25	0.05	0.05	0.05	10	1.61	0.015	25	4	0.13	86	0.034	10	0.44	0.002	0.2	0.6	0.005	2.2	0.1	0.025	3	0.25	0.1
1540694	29	0.05	0.05	0.05	11	1.52	0.017	23	7	0.16	130	0.034	10	0.52	0.021	0.21	0.5	0.005	2.2	0.05	0.025	3	0.25	0.1
1540695	29	0.05	0.1	0.05	7	1.46	0.016	19	5	0.11	47	0.021	10	0.37	0.03	0.18	0.6	0.005	1.7	0.05	0.025	2	0.25	0.1
1540695	28	0.05	0.1	0.05	7	1.41	0.017	21	5	0.12	51	0.021	10	0.37	0.03	0.18	0.6	0.005	1.6	0.05	0.025	2	0.25	0.1
1540696	29	0.05	0.05	0.05	14	1.11	0.019	24	8	0.19	55	0.042	10	0.49	0.035	0.25	0.7	0.005	2.2	0.1	0.025	3	0.25	0.1
1540697	35	0.05	0.05	0.05	16	1.15	0.02	20	11	0.3	65	0.042	10	0.62	0.044	0.25	0.6	0.005	2.6	0.1	0.025	4	0.25	0.1
1540697	35	0.05	0.05	0.05	16	1.12	0.02	20	11	0.29	65	0.042	10	0.61	0.044	0.25	0.6	0.005	2.4	0.1	0.025	4	0.25	0.1
1540698	29	0.05	0.05	0.05	17	0.9	0.022	25	6	0.31	66	0.076	10	0.66	0.033	0.38	0.8	0.005	2.8	0.1	0.025	4	0.25	0.1
1540699	30	0.05	0.05	0.05	7	1.11	0.02	14	8	0.19	63	0.007	10	0.43	0.042	0.13	0.5	0.005	1.4	0.05	0.025	3	0.25	0.1
1540701	29	0.05	0.2	0.05	10	1.46	0.018	17	5	0.2	163	0.033	10	0.5	0.03	0.22	0.6	0.005	1.6	0.05	0.025	3	0.25	0.1
1540702	25	0.05	0.05	0.05	10	0.92	0.022	19	8	0.18	75	0.026	10	0.45	0.041	0.18	0.6	0.005	1.8	0.05	0.025	3	0.25	0.1
1540703	25	0.05	0.05	0.05	10	1.09	0.018	25	6	0.18	63	0.033	10	0.43	0.036	0.2	0.9	0.005	2.1	0.05	0.025	2	0.25	0.1
1540704	29	0.05	0.05	0.05	12	1.23	0.023	25	7	0.19	106	0.044	10	0.55	0.033	0.27	0.6	0.005	2.2	0.1	0.025	3	0.25	0.1
1540705	46	0.05	0.05	0.05	9	1.62	0.019	24	5	0.19	80	0.035	10	0.44	0.029	0.21	0.5	0.005	2	0.05	0.025	2	0.25	0.1
1540706	49	0.05	0.05	0.05	21	1.76	0.029	25	10	0.29	79	0.063	10	0.69	0.032	0.37	0.6	0.005	3.4	0.2	0.025	4	0.25	0.1
1540707	44	0.05	0.05	0.05	13	1.66	0.022	29	5	0.2	47	0.056	10	0.55	0.027	0.3	0.6	0.005	2.8	0.1	0.025	3	0.25	0.1
1540708	18	0.05	0.05	0.4	7	0.53	0.014	25	8	0.15	37	0.035	10	0.44	0.04	0.24	1.1	0.005	1.7	0.05	0.025	3	0.25	0.1
1540709	36	0.05	0.05	0.1	18	1.41	0.023	25	10	0.25	65	0.049	10	0.55	0.022	0.29	0.8	0.005	3	0.1	0.025	3	0.25	0.1
1540710	19	0.05	0.05	0.05	9	0.71	0.016	25	8	0.19	42	0.035	10	0.44	0.034	0.22	1.1	0.005	1.7	0.05	0.025	3	0.25	0.1
1540711	27	0.05	0.05	0.05	14	0.75	0.02	19	6	0.2	40	0.032	10	0.44	0.037	0.2	1	0.005	1.7	0.05	0.025	3	0.25	0.1
1540712	27	0.05	0.05	0.05	16	0.85	0.025	23	8	0.33	60	0.079	10	0.71	0.039	0.42	0.9	0.005	3.1	0.2	0.025	4	0.25	0.1
1540713	35	0.05	0.05	0.05	20	1.61	0.031	25	5	0.38	108	0.084	10	0.74	0.025	0.47	0.5	0.005	3.8	0.1	0.025	4	0.25	0.1
1540714	27	0.05	0.05	0.05	20	1.49	0.028	23	7	0.35	81	0.075	10	0.73	0.037	0.42	0.4	0.005	3.8	0.05	0.025	4	0.25	0.1
1540715	32	0.05	0.05	0.05	12	1.99	0.026	26	5	0.13	68	0.022	10	0.42	0.022	0.2	0.4	0.005	3.3	0.05	0.025	2	0.25	0.1
1540716	41	0.05	0.1	5.5	9	0.53	0.028	20	7	0.08	101	0.005	10	0.37	0.035	0.18	0.4	1.56	2.3	0.05	0.1	1	0.25	12.8
1540717	91	0.05	0.1	0.6	9	5.48	0.026	28	4	0.08	187	0.004	10	0.28	0.012	0.13	0.2	0.23	2.7	0.05	0.025	0.5	0.25	1
1540718	38	0.05	0.1	0.1	12	2.46	0.03	30	6	0.1	111	0.013	10	0.41	0.002	0.17	0.3	0.04	3.6	0.05	0.025	1	0.25	0.1
1540719	25	0.05	0.2	0.05	13	0.93	0.031	27	6	0.31	53	0.017	10	0.67	0.024	0.18	0.4	0.02	2.7	0.05	0.025	3	0.25	0.1
1540721	42	0.05	0.3	4	11	0.93	0.029	26	6	0.26	61	0.003	10	0.64	0.03	0.17	0.3	0.87	2.7	0.05	0.07	3	0.25	7
1540722	40	0.05	0.3	0.1	8	1.44	0.025	29	8	0.24	63	0.004	10	0.62	0.033	0.22	0.2	0.03	2.8	0.05	0.025	3	0.25	0.1
1540723	47	0.05	0.2	0.1	11	1.66	0.028	23	6	0.26	52	0.009	10	0.63	0.029	0.17	0.2	0.03	3	0.05	0.025	3	0.25	0.2
1540724	61	0.05	0.2	0.05	16	1.96	0.033	26	9	0.28	144	0.023	10	0.68	0.03	0.18	0.3	0.02	4.2	0.05	0.025	3	0.25	0.1
1540725	54	0.05	0.1	0.05	18	1.84	0.029	21	6	0.28	64	0.046	10	0.65	0.017	0.25	0.5	0.01	3.4	0.05	0.025	3	0.25	0.1
1540726	30	0.05	0.2	0.05	18	0.93	0.029	24	12	0.35	59	0.05	10	0.73	0.034	0.28	0.4	0.01	2.8	0.05	0.025	4	0.25	0.1
1540727	28	0.05	0.1	0.05	22	0.8	0.03	25	14	0.4	79	0.089	10	0.82	0.036	0.45	0.7	0.005	2.9	0.1	0.025	4	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pp	as_pp	au_ppl	th_pp
1540728	17L00025	265	270	SR03	20	Dry	Rock	WHI17000193	4.12	0.053	2.5	4.4	2.4	33	0.05	2	3.9	440	1.81	0.25	48.5	7.9
1540729	17L00025	270	275	SR03	20	Dry	DUP	WHI17000193		0.053	2	4	1.9	37	0.05	1.7	4.7	461	1.89	0.25	52.6	10.8
1540729	17L00025	270	275	SR03	20	Dry	Rock	WHI17000193		0.061												
1540729	17L00025	270	275	SR03	20	Dry	REP	WHI17000193	4.03	0.058	2.1	4.1	1.8	34	0.05	1.6	4.7	455	1.85	0.25	71	10.3
1540730	17L00025	275	280	SR03	20	Dry	Rock	WHI17000193	4.76	0.025	1.9	5.2	2	38	0.05	1.7	4.8	506	1.99	0.25	25	9.4
1540731	17L00025	280	285	SR03	20	Dry	Rock	WHI17000193	3.23	0.053	1.8	6.5	1.9	38	0.05	2	4.7	426	1.83	0.25	44.6	10.3
1540732	17L00025	285	290	SR03	20	Dry	REP	WHI17000193	3.7	0.016	1.8	4.2	1.8	39	0.05	1.7	5.1	469	1.91	0.25	100.9	9.9
1540732	17L00025	285	290	SR03	20	Dry	Rock	WHI17000193			1.8	3.7	1.7	36	0.05	1.5	5	469	1.91	0.25	13	9.7
1540733	17L00025	290	295	SR03	20	Dry	Rock	WHI17000193	3	0.017	1.9	3.1	1.5	34	0.05	2.4	4.5	464	1.86	0.25	15.7	8.3
1540734	17L00025	295	300	SR03	20	Dry	Rock	WHI17000193	3.32	0.026	1.6	5.9	1.5	35	0.05	1.3	4.5	464	1.88	0.25	21	9.1
1540735	17L00025	300	305	SR03	20	Dry	Rock	WHI17000193	3.28	0.016	1.5	6.3	1.8	39	0.05	2.7	5.8	483	1.95	0.25	14.4	8.2
1540736	17L00025	305	310	SR03	20	Dry	Rock	WHI17000193	3.21	0.018	1.7	6.6	1.6	38	0.05	1.5	4.8	450	1.84	0.25	22.3	9.2
1540737	17L00025	310	315	SR03	20	Dry	Rock	WHI17000193	3.28	0.017	1.6	5.1	1.7	40	0.05	1.6	4.5	441	1.82	0.25	15.9	8.4
1540738	17L00025	315	320	SR03	20	Dry	Rock	WHI17000193	3.5	0.014	1.5	3.6	1.7	40	0.05	1.5	4.7	519	1.88	0.25	13.3	9.3
1540739	17L00025	320	325	SR03	20	Dry	Rock	WHI17000193	3.4	0.017	1.6	1.8	1.5	39	0.05	1.5	4.2	482	1.87	0.25	20	8.8
1540741	17L00025	325	330	SR03	20	Dry	Rock	WHI17000193	3.6	0.028	1.5	2.2	2	32	0.05	1.4	3.1	362	1.43	0.25	26.1	10.5
1540680	17L00025			SR03			Coarse Blar	WHI17000193	0.12	0.0025	0.3	1.2	3.9	19	0.1	3	0.5	121	0.21	2.7	3.7	0.8
1540700	17L00025			SR03			CDN-GS-5U	WHI17000193	0.09	5.305	8.3	192	22.8	77	0.9	14.7	11.2	576	4.22	11.1	5126	2.7
1540720	17L00025			SR03			CDN-GS-5U	WHI17000193	0.16	0.102	0.4	1.4	4.6	20	0.2	3	0.6	112	0.17	2.6	100.3	0.4
1540740	17L00025			SR03			CDN-GS-5U	WHI17000193	0.09	0.476	6.4	282	15.6	51	0.5	113.7	15.7	464	2.87	169	387.2	3.2
1540742	17L00026	0	5	SR03	16	Dry	Rock	WHI17000193	3.36	0.0025	0.8	5	1.4	22	0.05	3.2	2.2	295	1.22	0.25	1.4	11.4
1540743	17L00026	5	10	SR03	24	Dry	Rock	WHI17000193	5.93	0.0025	0.6	5.3	1.6	31	0.05	2	3	359	1.45	0.25	2.1	10.8
1540744	17L00026	10	15	SR03	27	Dry	Rock	WHI17000193	5.94	0.0025	1	5	1.8	17	0.05	1.8	1.9	227	0.96	0.25	1.3	11.7
1540745	17L00026	15	20	SR03	20	Dry	Rock	WHI17000193	3.25	0.0025	0.8	4.3	3.2	17	0.05	0.9	2	324	1.13	0.25	1	13
1540746	17L00026	20	25	SR03	20	Dry	Rock	WHI17000193	4.08	0.0025	0.5	3.7	1.9	15	0.05	1	1.8	246	1.06	0.25	0.25	13.4
1540747	17L00026	25	30	SR03	20	Dry	Rock	WHI17000193	3.62	0.0025	0.7	5.1	2	17	0.05	1.4	2.1	261	1.15	0.25	0.25	14.7
1540748	17L00026	30	35	SR03	20	Dry	Rock	WHI17000193	3.98	0.0025	0.5	3.3	2.3	20	0.05	0.6	1.6	241	0.9	0.25	0.25	10.1
1540749	17L00026	35	40	SR03	20	Dry	Rock	WHI17000193	4.23	0.0025	0.4	4.6	2	27	0.05	1.1	1.8	253	1.12	0.25	0.25	12.6
1540750	17L00026	40	45	SR03	20	Dry	Rock	WHI17000193	4.15	0.0025	0.6	3.3	2.4	23	0.05	1.1	1.9	269	1.06	0.25	0.7	10.2
1540751	17L00026	45	50	SR03	20	Dry	Rock	WHI17000193	3.59	0.0025	0.4	3.7	1.6	19	0.05	1.1	1.9	262	1.12	0.25	1.3	13.3
1540752	17L00026	50	55	SR03	20	Dry	Rock	WHI17000193	3.87	0.064	0.6	6.3	2.9	18	0.05	1.1	2.5	231	1.01	0.25	90.3	15.7
1540752	17L00026	50	55	SR03	20	Dry	REP	WHI17000193		0.078												
1540753	17L00026	55	60	SR03	20	Dry	Rock	WHI17000193	3.95	0.0025	0.6	1.8	2.8	12	0.05	1.1	1.2	246	0.63	0.25	2.5	6.5
1540754	17L00026	60	65	SR03	20	Dry	Rock	WHI17000193	3.89	0.017	0.7	5.9	1.6	17	0.05	1.6	1.7	205	0.87	0.25	21.9	15.2
1540755	17L00026	65	70	SR03	20	Dry	Rock	WHI17000193	3.57	0.014	0.5	4.1	2.1	21	0.05	0.9	1.9	244	1.04	0.25	13.8	9.8
1540756	17L00026	70	75	SR03	20	Dry	Rock	WHI17000193	3.75	0.009	0.8	5	3.7	22	0.05	1.5	1.6	239	0.82	0.25	11.2	9.4
1540757	17L00026	75	80	SR03	20	Dry	Rock	WHI17000193	3.34	0.0025	0.7	4.2	3.2	29	0.05	1.1	1.8	229	0.98	0.8	1.3	17.2
1540758	17L00026	80	85	SR03	20	Dry	Rock	WHI17000193	3.81	0.0025	0.6	3.1	2.5	20	0.05	1.1	1.8	219	0.92	0.25	6.5	13.1
1540759	17L00026	85	90	SR03	20	Dry	Rock	WHI17000193	4.06	0.012	0.5	5.5	2.7	25	0.05	3.1	2.4	239	1.03	0.25	9.3	10.3
1540761	17L00026	90	95	SR03	20	Dry	Rock	WHI17000193	3.62	0.021	1	4.2	3.6	25	0.05	2.5	2.3	275	0.98	0.25	19.1	10.8
1540762	17L00026	95	100	SR03	20	Dry	Rock	WHI17000193	3.43	0.0025	0.8	3.7	3.5	27	0.05	1.4	2.3	300	1.09	0.25	1	12.7
1540763	17L00026	100	105	SR03	20	Dry	Rock	WHI17000193		0.0025	0.7	6	4	39	0.05	1.3	1.8	282	1.11	0.25	0.8	9
1540763	17L00026	100	105	SR03	20	Dry	DUP	WHI17000193	3.8	0.0025	0.6	5.5	3.9	35	0.05	1.3	1.8	290	1.11	0.25	0.25	8.6

Appendix II

sample	sr_pi	cd_ppr	sbppm	bippm	vppm	capct	p_pct	la_cr	mg_pc	ba_pi	tipct	bppl	al_pc	na_pc	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga_pi	seppm	teppr		
1540728	35	0.05	0.05	0.05	20	1.12	0.028	21	18	0.36	76	0.068	10	0.74	0.045	0.37	1.5	0.01	2.4	0.1	0.025	4	0.25	0.1	
1540729	27	0.05	0.05	0.05	21	0.71	0.033	26	11	0.42	86	0.096	10	0.84	0.043	0.46	1.5	0.005	2.3	0.2	0.025	4	0.25	0.1	
1540729																									
1540729	27	0.05	0.05	0.05	20	0.69	0.033	24	10	0.41	83	0.092	10	0.83	0.041	0.44	1.3	0.01	2.4	0.2	0.025	4	0.25	0.1	
1540730	30	0.05	0.05	0.05	24	0.8	0.033	27	12	0.45	92	0.096	10	0.93	0.05	0.48	0.9	0.005	2.7	0.2	0.025	4	0.25	0.1	
1540731	26	0.05	0.05	0.05	20	0.55	0.033	24	12	0.44	85	0.079	10	0.83	0.047	0.41	1.3	0.01	2.2	0.1	0.025	4	0.25	0.1	
1540732	30	0.05	0.05	0.05	22	0.67	0.031	26	9	0.47	101	0.093	10	0.95	0.051	0.49	0.9	0.005	2.3	0.2	0.025	5	0.25	0.1	
1540732	30	0.05	0.05	0.05	22	0.67	0.031	26	9	0.47	100	0.096	10	0.94	0.05	0.49	0.8	0.005	2.4	0.2	0.025	4	0.25	0.1	
1540733	28	0.05	0.05	0.05	21	0.58	0.031	23	12	0.42	97	0.099	10	0.88	0.049	0.5	0.7	0.005	2.2	0.2	0.025	4	0.25	0.1	
1540734	28	0.05	0.05	0.05	23	0.6	0.029	25	9	0.42	110	0.102	10	0.92	0.046	0.54	0.9	0.005	2.7	0.2	0.025	4	0.25	0.1	
1540735	36	0.05	0.05	0.05	25	0.85	0.043	23	13	0.53	89	0.073	10	0.97	0.048	0.41	0.5	0.005	2.4	0.1	0.025	4	0.25	0.1	
1540736	31	0.05	0.05	0.05	21	0.64	0.031	27	10	0.41	87	0.097	10	0.87	0.049	0.49	1	0.005	2.4	0.2	0.025	4	0.25	0.1	
1540737	31	0.05	0.05	0.05	21	0.89	0.036	23	11	0.41	79	0.079	10	0.9	0.047	0.44	0.5	0.005	2.4	0.2	0.025	4	0.25	0.1	
1540738	32	0.05	0.05	0.05	19	0.98	0.03	27	9	0.55	69	0.056	10	0.97	0.04	0.38	0.4	0.005	3.2	0.05	0.025	5	0.25	0.1	
1540739	21	0.05	0.05	0.05	18	0.56	0.03	25	12	0.55	88	0.077	10	0.92	0.055	0.43	0.5	0.005	2.9	0.1	0.025	5	0.25	0.1	
1540741	20	0.05	0.05	0.05	13	0.62	0.023	23	9	0.37	70	0.037	10	0.66	0.041	0.24	0.5	0.005	2.1	0.05	0.025	3	0.25	0.1	
1540680	269	0.2	1.3	0.05	15	17.71	0.017	3	3	11.18	16	0.004	10	0.14	0.003	0.03	0.2	0.005	0.4	0.05	0.025	0.5	0.25	0.1	
1540700	75	0.1	4	0.5	100	0.91	0.061	7	19	0.86	132	0.145	10	1.74	0.179	0.22	5.1	0.15	3.1	0.05	0.025	5	0.25	0.1	
1540720	283	0.3	1.5	0.05	15	18.51	0.014	2	3	11.77	17	0.002	10	0.11	5E-04	0.02	0.2	0.02	0.6	0.05	0.025	0.5	0.25	0.1	
1540740	75	0.2	1.4	0.1	64	1.74	0.032	9	107	1.41	127	0.105	10	2.66	0.3	0.21	0.9	0.03	3	0.05	0.1	6	0.25	0.1	
1540742	6	0.05	0.05	0.05	10	0.08	0.013	24	7	0.28	55	0.055	10	0.61	0.034	0.29	0.5	0.005	1.8	0.1	0.025	3	0.25	0.1	
1540743	12	0.05	0.05	0.05	17	0.23	0.025	25	3	0.29	77	0.08	10	0.65	0.034	0.4	1.2	0.005	2.5	0.2	0.025	3	0.25	0.1	
1540744	13	0.05	0.05	0.05	7	0.39	0.014	22	7	0.15	51	0.04	10	0.46	0.04	0.22	1.2	0.005	1.8	0.1	0.025	3	0.25	0.1	
1540745	12	0.05	0.05	0.05	7	1	0.012	27	2	0.12	57	0.026	10	0.41	0.025	0.17	0.8	0.005	1.7	0.05	0.025	2	0.25	0.1	
1540746	13	0.05	0.05	0.05	7	0.38	0.014	25	5	0.16	51	0.041	10	0.45	0.047	0.25	1.2	0.005	1.7	0.1	0.025	2	0.25	0.1	
1540747	17	0.05	0.05	0.05	9	0.43	0.014	26	4	0.2	47	0.052	10	0.49	0.047	0.29	1.6	0.005	2.3	0.1	0.025	3	0.25	0.1	
1540748	24	0.05	0.05	0.05	7	0.79	0.016	21	4	0.15	52	0.023	10	0.43	0.051	0.17	0.8	0.005	1.5	0.05	0.025	2	0.25	0.1	
1540749	22	0.05	0.05	0.05	9	0.6	0.015	26	4	0.19	48	0.032	10	0.47	0.046	0.21	0.9	0.005	1.8	0.05	0.025	3	0.25	0.1	
1540750	26	0.05	0.05	0.05	9	0.69	0.016	21	6	0.19	54	0.028	10	0.47	0.044	0.2	0.6	0.005	1.6	0.05	0.025	3	0.25	0.1	
1540751	17	0.05	0.05	0.05	9	0.37	0.014	25	4	0.18	45	0.04	10	0.47	0.047	0.25	1.1	0.005	1.7	0.1	0.025	3	0.25	0.1	
1540752	16	0.05	0.05	0.05	7	0.44	0.014	26	6	0.14	50	0.026	10	0.41	0.041	0.2	0.9	0.02	1.6	0.05	0.025	2	0.25	0.1	
1540752																									
1540753	27	0.05	0.05	0.05	4	1.53	0.02	13	4	0.08	51	0.003	10	0.3	0.034	0.14	0.5	0.01	0.7	0.05	0.025	1	0.25	0.1	
1540754	16	0.05	0.05	0.05	5	0.49	0.012	24	6	0.14	33	0.019	10	0.39	0.043	0.16	0.8	0.005	1.3	0.05	0.025	2	0.25	0.1	
1540755	19	0.05	0.05	0.05	8	0.66	0.019	21	4	0.16	47	0.024	10	0.43	0.039	0.2	0.7	0.005	1.4	0.05	0.025	2	0.25	0.1	
1540756	20	0.05	0.2	0.05	6	0.93	0.013	17	6	0.07	57	0.002	10	0.31	0.046	0.12	0.5	0.005	1.2	0.05	0.025	1	0.25	0.1	
1540757	18	0.05	0.6	0.05	5	0.7	0.013	29	4	0.08	46	0.017	10	0.35	0.034	0.15	0.6	0.005	1.7	0.05	0.025	2	0.25	0.1	
1540758	20	0.05	0.05	0.05	6	0.65	0.014	22	6	0.12	43	0.022	10	0.38	0.041	0.18	0.7	0.005	1.6	0.05	0.025	2	0.25	0.1	
1540759	21	0.05	0.05	0.05	9	0.78	0.018	18	9	0.19	51	0.021	10	0.44	0.036	0.18	0.7	0.005	1.5	0.05	0.025	3	0.25	0.1	
1540761	21	0.05	0.05	0.05	7	1.57	0.016	19	6	0.13	61	0.009	10	0.43	0.008	0.12	0.5	0.005	1.4	0.05	0.025	2	0.25	0.1	
1540762	30	0.05	0.05	0.05	14	1.61	0.023	24	6	0.16	67	0.029	10	0.51	0.005	0.21	0.4	0.005	2.7	0.1	0.025	3	0.25	0.1	
1540763	47	0.05	0.05	0.05	17	2.31	0.021	18	4	0.15	71	0.027	10	0.49	0.034	0.21	0.6	0.005	2	0.05	0.025	3	0.25	0.1	
1540763	47	0.05	0.05	0.05	17	2.3	0.024	19	4	0.18	71	0.026	10	0.49	0.033	0.21	0.6	0.005	1.9	0.05	0.025	3	0.25	0.1	

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pc	as_pp	au_ppl	th_pp
1540764	17L00026	105	110	SR03	20	Dry	Rock	WHI17000193	3.8	0.0025	0.8	6.5	2.6	35	0.05	1.6	2.1	217	1.03	0.25	0.25	8.7
1540765	17L00026	110	115	SR03	20	Dry	Rock	WHI17000193	4.38	0.0025	0.8	5.8	2.2	30	0.05	1.4	2.4	247	1.17	0.25	0.25	10.8
1540766	17L00026	115	120	SR03	20	Dry	Rock	WHI17000193	3.51	0.0025	0.8	5	2.3	19	0.05	1	1.8	255	1.1	0.25	1.1	13.9
1540767	17L00026	120	125	SR03	20	Dry	Rock	WHI17000222	3.59	0.0025	0.9	11.9	29.7	32	0.05	1.8	2.2	285	1.16	0.8	2.4	13.1
1540768	17L00026	125	130	SR03	20	Dry	Rock	WHI17000222	3.44	0.013	1.1	9	3.3	25	0.05	2.2	2.5	242	1.18	0.25	3.2	11.3
1540769	17L00026	130	135	SR03	20	Dry	DUP	WHI17000222		0.0025	1	8.3	5.2	29	0.05	1.9	2.5	307	1.28	0.25	0.8	13
1540769	17L00026	130	135	SR03	20	Dry	Rock	WHI17000222	3.8	0.0025	0.8	8.9	5.3	33	0.05	2	2.5	295	1.28	0.25	0.9	12.5
1540770	17L00026	135	140	SR03	20	Dry	Rock	WHI17000222	3.27	0.0025	1	7.3	3.9	27	0.05	1.9	2.5	327	1.24	0.25	0.25	15
1540771	17L00026	140	145	SR03	20	Dry	Rock	WHI17000222	3.52	0.02	1.5	6.6	4.6	38	0.05	1.7	2.4	346	1.22	0.6	0.7	10.4
1540772	17L00026	145	150	SR03	20	Dry	Rock	WHI17000222	3.65	0.0025	0.8	9.1	3.2	47	0.05	1.5	2.5	363	1.35	0.25	0.25	13.3
1540773	17L00026	150	155	SR03	20	Dry	REP	WHI17000222			1.1	9	3	74	0.05	2.1	2.8	366	1.5	0.25	0.25	12.9
1540773	17L00026	150	155	SR03	20	Dry	Rock	WHI17000222	3.36	0.0025	1.1	8.4	2.9	74	0.05	2.1	2.9	368	1.5	0.25	0.25	13.1
1540774	17L00026	155	160	SR03	20	Dry	Rock	WHI17000222	3.66	0.0025	1.3	7	4.7	37	0.05	1.5	2.7	443	1.28	0.9	0.25	11.1
1540775	17L00026	160	165	SR03	20	Dry	Rock	WHI17000222	4	0.014	1.4	7.4	4	21	0.05	1.9	2.2	257	1.08	0.5	9.8	13.4
1540776	17L00026	165	170	SR03	20	Dry	Rock	WHI17000222	2.6	0.014	1.7	6.4	4.9	28	0.05	1.9	2.4	388	1.2	0.6	2.9	10.3
1540777	17L00026	170	175	SR03	22	Dry	Rock	WHI17000222	3.23	0.0025	1.2	8.1	5.1	67	0.05	2.1	9.4	1047	3.48	0.25	1.6	5.5
1540778	17L00026	175	180	SR03	20	Dry	Rock	WHI17000222	4.55	0.0025	1.3	6.3	3.1	56	0.05	1.7	8.5	944	3.13	0.25	2.1	5.7
1540779	17L00026	180	185	SR03	20	Dry	Rock	WHI17000222	3.17	0.0025	1.3	17.9	2.2	53	0.05	3.5	5.6	690	2.31	0.25	2.1	9.1
1540781	17L00026	185	190	SR03	20	Dry	Rock	WHI17000222	3.7	0.009	1	9.5	2.9	43	0.05	1.7	4.2	542	1.57	0.6	7.4	10.4
1540782	17L00026	190	195	SR03	20	Dry	Rock	WHI17000222	3.53	0.034	1.3	6.5	4.5	34	0.05	2.4	3.5	493	1.37	0.25	29.8	10.1
1540783	17L00026	195	200	SR03	20	Dry	Rock	WHI17000222	3.7	0.035	1.9	25.6	4.1	44	0.05	1.9	3.9	428	1.63	0.25	90.6	9.9
1540784	17L00026	200	205	SR03	20	Dry	Rock	WHI17000222	3.45	0.162	1.2	10.6	3.7	38	0.05	2.2	3.5	383	1.57	0.5	134.5	8.3
1540785	17L00026	205	210	SR03	20	Dry	Rock	WHI17000222	3.39	1.164	1.3	8.2	4.6	33	0.5	1.7	5.3	470	1.63	0.7	1081	6.8
1540786	17L00026	210	215	SR03	20	Dry	Rock	WHI17000222	3.38	4.334	1.3	5.1	8.1	16	3	1.9	2.9	75	2.14	18.8	4641	12.9
1540787	17L00026	215	220	SR03	20	Dry	Rock	WHI17000222	4.07	0.86	1.1	3.2	3.1	10	0.7	1.8	1.6	125	1.23	3.6	711.7	13.9
1540788	17L00026	220	225	SR03	20	Dry	Rock	WHI17000222	3.37	0.187	1.3	4.8	4	18	0.1	1.5	1.6	231	0.81	0.7	175.9	14.1
1540789	17L00026	225	230	SR03	20	Dry	Rock	WHI17000222	3.97	0.074	1.5	6.5	3.5	32	0.05	1.9	2.2	313	1.12	1	66	13.5
1540790	17L00026	230	235	SR03	20	Dry	Rock	WHI17000222	3.14	0.017	1.3	4	3.9	23	0.05	1.4	1.6	267	0.92	0.25	12	14.1
1540791	17L00026	235	240	SR03	20	Dry	Rock	WHI17000222	2.71	0.015	1.5	7.8	2.7	19	0.05	1.8	1.8	303	0.92	0.9	10.9	13.6
1540792	17L00026	240	245	SR03	20	Dry	Rock	WHI17000222	3.39	0.017	1.8	4.5	3.1	24	0.05	1.6	2.5	330	1.15	0.8	15.1	14.1
1540793	17L00026	245	250	SR03	20	Dry	Rock	WHI17000222	3.66	0.012	1.5	7.7	4.1	52	0.05	2.2	6.8	752	2.54	0.25	12.9	8.9
1540794	17L00026	250	255	SR03	20	Dry	Rock	WHI17000222	2.96	0.008	1.1	5.9	3.7	63	0.05	1.6	10	1017	3.51	0.25	5.1	5.6
1540795	17L00026	255	260	SR03	20	Dry	Rock	WHI17000222	3	0.017	1.2	13	2.6	48	0.05	1.8	6.6	837	2.64	0.8	5.3	8.3
1540796	17L00026	260	265	SR03	20	Dry	Rock	WHI17000222	3.15	0.013	1.5	5.7	2.1	46	0.05	1.9	3.7	593	1.75	0.25	6.5	8.3
1540797	17L00026	265	270	SR03	20	Dry	Rock	WHI17000222	3.59	0.012	1.7	9	1.8	36	0.05	2.2	3.7	457	1.67	0.25	10.4	10.2
1540798	17L00026	270	275	SR03	20	Dry	Rock	WHI17000222	3.67	0.015	1.6	4.5	3.2	39	0.05	1.5	4	544	1.73	0.5	6.8	9.1
1540799	17L00026	275	280	SR03	20	Dry	Rock	WHI17000222	3.35	0.013	1.4	4.9	3.5	42	0.05	2	4.6	569	1.82	0.6	7.7	9
1540801	17L00026	280	285	SR03	20	Dry	Rock	WHI17000222	3.23	0.008	1.9	8.6	6.5	45	0.05	2.1	4.1	544	1.88	0.5	5.2	9.1
1540802	17L00026	285	290	SR03	20	Dry	Rock	WHI17000222	4.55	0.01	1.7	10.2	5.6	47	0.05	2.1	3.5	459	1.63	0.25	6	5.6
1540803	17L00026	290	295	SR03	20	Dry	DUP	WHI17000222		0.009	1.7	9.9	6.1	53	0.05	3.4	3.7	431	1.67	0.7	6.3	4.4
1540803	17L00026	290	295	SR03	20	Dry	Rock	WHI17000222	3.99	0.01	1.6	7.3	6	47	0.05	2.8	3.7	430	1.69	0.9	5.5	4.4
1540804	17L00026	295	300	SR03	20	Dry	Rock	WHI17000222	4	0.008	1.3	5.9	5	42	0.05	2	3.6	379	1.54	1.3	7.6	6.2
1540805	17L00026	300	305	SR03	20	Dry	Rock	WHI17000222	4.08	0.008	1.4	6.8	4	50	0.05	2.4	3	361	1.47	0.6	8	4.8

Appendix II

sample	sr_pct	cd_ppm	sbppm	bipppm	vppm	capct	p_pct	la_cr	mg_pct	ba_pct	tipct	bppal_pct	na_pct	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga	seppm	teppr		
1540764	35	0.05	0.05	0.05	17	1.17	0.023	17	8	0.19	60	0.032	10	0.49	0.045	0.24	1.2	0.005	1.8	0.1	0.025	3	0.25	0.1
1540765	21	0.05	0.05	0.05	15	0.74	0.021	23	7	0.2	63	0.036	10	0.52	0.044	0.27	0.8	0.005	1.7	0.1	0.025	3	0.25	0.1
1540766	19	0.05	0.05	0.05	8	0.62	0.015	25	5	0.14	51	0.035	10	0.42	0.039	0.23	1.1	0.005	1.9	0.05	0.025	2	0.25	0.1
1540767	26	0.05	0.05	0.05	8	1.07	0.013	28	6	0.12	84	0.027	10	0.74	0.053	0.24	0.5	0.01	2.1	0.05	0.025	3	0.25	0.1
1540768	13	0.05	0.05	0.05	8	0.68	0.017	24	7	0.12	63	0.023	10	0.79	0.013	0.25	0.4	0.005	2	0.05	0.025	3	0.25	0.1
1540769	34	0.05	0.05	0.05	12	1.28	0.018	25	7	0.19	67	0.05	10	0.95	0.035	0.34	0.5	0.005	2.6	0.1	0.025	4	0.25	0.1
1540769	32	0.05	0.05	0.05	12	1.24	0.019	25	7	0.2	64	0.047	10	0.91	0.036	0.33	0.5	0.005	2.3	0.1	0.025	4	0.25	0.1
1540770	41	0.05	0.05	0.05	11	1.27	0.017	28	8	0.19	63	0.052	10	0.79	0.024	0.34	0.7	0.005	2.7	0.1	0.025	3	0.25	0.1
1540771	49	0.05	0.05	0.05	9	2.13	0.023	23	7	0.15	123	0.022	10	0.71	0.019	0.25	0.5	0.005	1.6	0.1	0.025	3	0.25	0.1
1540772	26	0.05	0.05	0.05	11	0.91	0.017	25	6	0.22	72	0.049	10	0.85	0.047	0.37	0.5	0.005	2.3	0.1	0.025	3	0.25	0.1
1540773	28	0.1	0.05	0.05	13	0.91	0.02	26	8	0.21	70	0.06	10	0.82	0.042	0.38	0.6	0.005	2.6	0.1	0.025	3	0.25	0.1
1540773	29	0.2	0.05	0.05	12	0.91	0.018	26	8	0.21	70	0.059	10	0.82	0.041	0.38	0.5	0.005	2.6	0.1	0.025	4	0.25	0.1
1540774	36	0.05	0.05	0.05	10	2.03	0.021	26	6	0.14	100	0.032	10	0.8	0.013	0.3	0.4	0.005	2.2	0.05	0.025	2	0.25	0.1
1540775	38	0.05	0.05	0.05	6	1.8	0.017	26	7	0.07	56	0.011	10	0.57	0.016	0.19	0.4	0.005	1.6	0.05	0.025	2	0.25	0.1
1540776	31	0.05	0.05	0.05	9	1.67	0.016	20	7	0.09	79	0.015	10	0.88	0.003	0.21	0.4	0.01	2	0.05	0.025	3	0.25	0.1
1540777	51	0.05	0.05	0.05	62	2.42	0.068	19	6	0.97	346	0.199	10	1.98	0.012	1.08	0.3	0.005	10	0.2	0.025	7	0.25	0.1
1540778	49	0.05	0.05	0.05	53	1.72	0.056	17	6	0.99	333	0.19	10	1.93	0.052	1.05	0.3	0.005	8.3	0.2	0.025	7	0.25	0.1
1540779	31	0.05	0.05	0.05	27	1.4	0.039	21	11	0.64	185	0.101	10	1.24	0.038	0.61	0.5	0.005	4.7	0.1	0.025	5	0.25	0.1
1540781	31	0.05	0.05	0.05	16	1.56	0.03	27	6	0.36	93	0.058	10	0.96	0.044	0.42	0.5	0.005	2.6	0.1	0.025	4	0.25	0.1
1540782	38	0.05	0.1	0.2	11	1.62	0.032	26	9	0.22	94	0.018	10	0.79	0.063	0.32	0.4	0.005	1.8	0.05	0.025	3	0.25	0.1
1540783	29	0.05	0.05	0.2	15	1.13	0.03	25	7	0.32	63	0.031	10	0.88	0.078	0.29	0.5	0.005	2.4	0.05	0.025	3	0.25	0.1
1540784	23	0.05	0.05	0.05	13	1.13	0.03	24	9	0.27	57	0.008	10	0.77	0.066	0.19	0.3	0.005	2.4	0.05	0.025	3	0.25	0.1
1540785	46	0.05	0.1	0.5	9	1.43	0.026	20	7	0.1	106	0.005	10	0.76	0.067	0.27	0.3	0.11	2.2	0.05	0.06	3	0.25	1.2
1540786	42	0.05	0.3	1.3	4	0.09	0.019	24	8	0.04	147	0.002	10	0.52	0.064	0.39	0.3	0.19	1.1	0.1	0.27	2	0.25	4.4
1540787	22	0.05	0.1	0.3	2	0.48	0.015	27	8	0.03	86	0.002	10	0.39	0.054	0.22	0.7	0.05	0.7	0.05	0.1	1	0.25	1
1540788	26	0.05	0.05	0.05	3	1.42	0.015	30	7	0.04	82	0.002	10	0.74	0.029	0.23	0.3	0.02	1	0.05	0.025	2	0.25	0.1
1540789	27	0.05	0.05	0.05	9	1.06	0.017	25	8	0.09	56	0.025	10	0.63	0.004	0.22	0.4	0.01	2.1	0.05	0.025	3	0.25	0.1
1540790	36	0.05	0.05	0.05	7	1.38	0.014	25	8	0.1	54	0.03	10	0.75	0.004	0.23	0.4	0.005	1.9	0.05	0.025	3	0.25	0.1
1540791	16	0.05	0.05	0.05	5	0.8	0.014	25	8	0.06	64	0.014	10	0.54	0.003	0.15	0.4	0.005	1.6	0.05	0.025	2	0.25	0.1
1540792	25	0.05	0.05	0.05	8	1.33	0.017	25	8	0.1	55	0.018	10	0.71	0.013	0.2	0.6	0.01	1.8	0.05	0.025	2	0.25	0.1
1540793	52	0.05	0.05	0.05	41	2.23	0.045	23	7	0.54	153	0.096	10	1.31	0.017	0.55	0.3	0.005	7.1	0.1	0.025	5	0.25	0.1
1540794	69	0.05	0.05	0.05	62	2.57	0.068	21	5	1	314	0.19	10	2.14	0.022	1.06	0.2	0.005	10.8	0.2	0.025	8	0.25	0.1
1540795	43	0.05	0.05	0.05	34	1.9	0.04	23	6	0.57	186	0.123	10	1.34	0.013	0.71	0.3	0.005	6.4	0.1	0.025	5	0.25	0.1
1540796	38	0.05	0.05	0.05	19	1.45	0.039	27	8	0.4	91	0.055	10	1.15	0.058	0.37	0.5	0.005	3.1	0.1	0.025	5	0.25	0.1
1540797	23	0.05	0.05	0.05	20	0.71	0.024	27	9	0.37	81	0.079	10	0.89	0.051	0.44	0.8	0.005	3.2	0.1	0.025	5	0.25	0.1
1540798	37	0.05	0.05	0.05	21	1.22	0.028	27	7	0.31	69	0.071	10	1	0.038	0.42	0.4	0.005	3.9	0.1	0.025	4	0.25	0.1
1540799	49	0.05	0.05	0.05	23	2.04	0.033	26	8	0.3	81	0.071	10	0.89	0.038	0.41	0.4	0.005	3.9	0.1	0.025	4	0.25	0.1
1540801	45	0.05	0.05	0.2	21	1.92	0.032	25	8	0.29	103	0.06	10	0.88	0.026	0.35	0.4	0.01	4	0.2	0.025	4	0.25	0.1
1540802	59	0.05	0.05	0.05	20	2.19	0.028	16	8	0.31	105	0.038	10	0.77	0.034	0.27	0.4	0.005	3.8	0.05	0.025	4	0.25	0.1
1540803	65	0.05	0.1	0.05	30	2.16	0.037	16	11	0.3	110	0.03	10	0.79	0.052	0.25	0.3	0.005	3.9	0.05	0.025	4	0.25	0.1
1540803	64	0.05	0.05	0.05	30	2.1	0.036	15	10	0.29	99	0.028	10	0.8	0.055	0.25	0.2	0.005	3.6	0.05	0.025	4	0.25	0.1
1540804	53	0.05	0.05	0.05	22	1.8	0.033	17	8	0.24	73	0.046	10	0.74	0.044	0.31	0.3	0.005	3.8	0.05	0.025	4	0.25	0.1
1540805	58	0.05	0.05	0.05	23	1.54	0.028	15	10	0.27	83	0.056	10	0.81	0.061	0.38	0.4	0.005	3	0.1	0.025	4	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pct	as_pp	au_ppl	th_pp
1540806	17L00026	305	310	SR03	20	Dry	Rock	WHI17000222	4.1	0.007	1.5	7.1	3.7	49	0.05	2.8	3.7	413	1.77	0.7	5.1	5.9
1540807	17L00026	310	315	SR03	17	Dry	Rock	WHI17000222	2.82	0.006	1.7	6.6	3.9	43	0.05	2.1	4.1	466	1.77	0.5	6.3	6.5
1540808	17L00026	315	320	SR03	17	Dry	Rock	WHI17000222	2.6	0.005	1.8	5.5	3.6	43	0.05	2.6	5	530	2.13	0.25	3.5	8
1540809	17L00026	320	325	SR03	20	Dry	Rock	WHI17000222	3.78	0.0025	1.4	4.9	4.6	38	0.05	2.3	4.5	611	2.04	0.25	2.2	9.4
1540810	17L00026	325	330	SR03	22	Dry	Rock	WHI17000222	3.68	0.0025	1.6	3.7	3.8	38	0.05	2.2	4.4	568	2	0.5	1.7	9.5
1540760	17L00026			SR03			Coarse Blar	WHI17000193	0.15	0.0025	0.7	1.2	3.9	19	0.1	2.4	0.4	105	0.19	2.7	1.7	0.6
1540760	17L00026			SR03			REPBlank	WHI17000193			0.7	1.1	3.9	19	0.1	2.9	0.5	113	0.19	2.5	1.8	0.6
1540780	17L00026			SR03			CDN-GS-5U	WHI17000222	0.09	5.38	7.8	194	21.8	73	0.8	14	11	584	4.15	11.5	4365	2.7
1540800	17L00026			SR03			Coarse Blar	WHI17000222	0.13	0.0025	0.5	12.2	8.1	41	0.1	3.8	0.5	111	0.16	3.2	2.6	0.3
1540811	17L00027	0	5	SR03	10	Dry	Rock	WHI17000222	1.46	0.0025	1.2	8.4	3.5	37	0.05	6.3	2.5	276	1.27	0.25	1.9	11.1
1540812	17L00027	5	10	SR03	26	Dry	Rock	WHI17000222	4.61	0.0025	1.2	6.8	3.1	31	0.05	4.5	2.6	286	1.29	0.25	0.25	12.1
1540813	17L00027	10	15	SR03	26	Dry	REP	WHI17000222		0.0025												
1540813	17L00027	10	15	SR03	26	Dry	Rock	WHI17000222	3.89	0.0025	0.6	5	2.8	25	0.05	2.5	2.3	276	1.12	0.25	0.25	12.9
1540814	17L00027	15	20	SR03	19	Dry	Rock	WHI17000222	3.8	0.0025	0.8	3.9	3.2	26	0.05	2.7	2.3	293	1.25	0.25	0.25	13.5
1540815	17L00027	20	25	SR03	20	Dry	Rock	WHI17000222	4.55	0.0025	0.9	8.9	4.3	42	0.05	10.8	5	490	1.68	0.5	0.25	11
1540816	17L00027	25	30	SR03	20	Dry	Rock	WHI17000222	4.38	0.0025	1	7.7	2.4	29	0.05	3.5	2.7	338	1.14	0.25	0.25	14.1
1540817	17L00027	30	35	SR03	20	Dry	Rock	WHI17000222	3.97	0.0025	0.8	7.9	2.7	26	0.05	2.1	2.4	245	1.16	0.25	0.25	14.2
1540818	17L00027	35	40	SR03	20	Dry	Rock	WHI17000222	3.57	0.0025	1	5.6	2.6	21	0.05	1.9	2	282	1.13	0.25	0.25	14.1
1540819	17L00027	40	45	SR03	20	Dry	Rock	WHI17000222	3.72	0.0025	0.7	6	3.4	24	0.05	2.2	2.5	295	1.16	0.25	0.25	11.4
1540821	17L00027	45	50	SR03	20	Dry	Rock	WHI17000222	4.02	0.0025	0.9	6.5	3.6	49	0.05	5	5.4	461	1.88	0.25	0.25	11.7
1540822	17L00027	50	55	SR03	20	Dry	Rock	WHI17000222	3.78	0.0025	0.9	5.6	3	24	0.05	2.5	2.1	225	0.88	0.25	0.25	10
1540823	17L00027	55	60	SR03	20	Dry	Rock	WHI17000222	4.37	0.0025	9.7	5.7	2	40	0.05	2.2	3	406	1.39	0.7	0.25	13.5
1540824	17L00027	60	65	SR03	20	Dry	Rock	WHI17000222	4.33	0.0025	1.7	9.1	1.9	73	0.05	2.2	2.5	374	1.23	0.25	0.25	12.7
1540825	17L00027	65	70	SR03	20	Dry	Rock	WHI17000222	3.73	0.0025	0.9	4.8	1.9	40	0.05	2	3.1	373	1.38	0.5	0.25	12.7
1540826	17L00027	70	75	SR03	20	Dry	Rock	WHI17000222	3.76	0.0025	1.5	4	3.3	30	0.05	1.6	2.1	388	1.08	0.25	0.25	14.3
1540827	17L00027	75	80	SR03	20	Dry	Rock	WHI17000222	4.81	0.0025	1	4	2.4	33	0.05	2	2	272	1.09	0.25	0.25	12.1
1540828	17L00027	80	85	SR03	20	Dry	Rock	WHI17000222	3.74	0.0025	1.2	5	2.9	23	0.05	1.8	1.9	310	1	0.25	0.25	13.1
1540829	17L00027	85	90	SR03	20	Dry	Rock	WHI17000222	4.07	0.0025	1	4.8	2.1	26	0.05	2	2.4	279	1.11	0.25	0.5	13.4
1540830	17L00027	90	95	SR03	20	Dry	Rock	WHI17000222	4.22	0.0025	0.9	3.2	2.4	24	0.05	1.8	2	355	1.08	0.25	0.25	13.4
1540830	17L00027	90	95	SR03	20	Dry	REP	WHI17000222			0.8	3.2	2.4	26	0.05	1.8	2.2	364	1.1	0.25	0.25	14
1540831	17L00027	95	100	SR03	20	Dry	Rock	WHI17000222	4.48	0.0025	1	4.5	2.1	21	0.05	2.1	2.3	333	1.25	0.25	0.25	14.5
1540832	17L00027	100	105	SR03	20	Dry	Rock	WHI17000222	4.15	0.0025	0.9	9	2.5	42	0.05	2.9	2.2	346	1.2	0.25	0.25	12.5
1540833	17L00027	105	110	SR03	20	Dry	Rock	WHI17000222	4.07	0.0025	1	5.5	2.3	55	0.05	1.9	2.2	336	1.24	0.25	0.25	13.9
1540834	17L00027	110	115	SR03	20	Dry	Rock	WHI17000222	3.96	0.0025	1	6.7	2.6	36	0.05	1.8	2.1	338	1.2	0.25	0.25	11.5
1540835	17L00027	115	120	SR03	20	Dry	Rock	WHI17000222	4.17	0.0025	1.3	4.2	5.2	37	0.05	2.4	2.3	335	1.23	0.25	1.7	13.8
1540836	17L00027	120	125	SR03	20	Dry	Rock	WHI17000222	3.58	0.0025	1.2	4.1	1.8	31	0.05	2.4	2.7	388	1.34	0.25	0.7	13.8
1540837	17L00027	125	130	SR03	20	Dry	Rock	WHI17000222	3.93	0.0025	0.9	8.7	2.4	39	0.05	3	6.2	771	2.27	0.6	1.4	8.9
1540837	17L00027	125	130	SR03	20	Dry	DUP	WHI17000222		0.0025	0.9	9.2	2.5	41	0.05	3.1	6.2	796	2.28	0.25	0.25	9.1
1540838	17L00027	130	135	SR03	20	Dry	REP	WHI17000222	3.56	0.0025	1	6	1.2	65	0.05	2	9.9	1126	3.45	0.25	0.9	3.5
1540838	17L00027	130	135	SR03	20	Dry	Rock	WHI17000222		0.0025												
1540839	17L00027	135	140	SR03	20	Dry	Rock	WHI17000222	3.44	0.0025	0.9	5.6	1	67	0.05	2	10	1030	3.45	0.25	0.7	2.9
1540841	17L00027	140	145	SR03	20	Dry	Rock	WHI17000222	3.52	0.0025	0.8	8.2	1.3	67	0.05	2.8	11.5	1098	3.54	0.25	0.25	2.6
1540842	17L00027	145	150	SR03	20	Dry	Rock	WHI17000222	3.49	0.0025	1.1	4.7	1.2	65	0.05	2.1	9.6	1035	3.52	0.5	0.25	3.3

Appendix II

sample	sr_pi	cd_ppr	sbppm	bippm	vppm	capct	p_pct	la_cr	mg_pct	ba_pct	tipct	bppal	al_pct	na_pct	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga	seppm	teppr	
1540806	60	0.05	0.05	0.05	26	1.53	0.031	18	11	0.33	103	0.072	10	0.85	0.068	0.44	0.5	0.005	3.3	0.2	0.025	5	0.25	0.1
1540807	57	0.05	0.05	0.05	25	1.61	0.034	21	9	0.35	120	0.08	10	0.88	0.053	0.45	0.6	0.005	3.5	0.2	0.025	4	0.25	0.1
1540808	53	0.05	0.05	0.05	27	1.36	0.034	24	11	0.4	114	0.107	10	1.06	0.054	0.56	0.6	0.005	4.3	0.2	0.025	5	0.25	0.1
1540809	108	0.05	0.05	0.05	25	2.64	0.032	26	9	0.36	1169	0.09	10	1.13	0.059	0.5	0.4	0.005	4.4	0.2	0.025	5	0.25	0.1
1540810	89	0.05	0.05	0.05	24	2.06	0.033	27	10	0.38	604	0.089	10	1.01	0.054	0.48	0.4	0.005	3.9	0.2	0.025	5	0.25	0.1
1540760	259	0.2	1.2	0.05	14	17.92	0.014	2	3	11.1	19	0.003	10	0.12	0.002	0.02	0.2	0.005	0.4	0.05	0.025	0.5	0.25	0.1
1540760	262	0.3	1.1	0.05	14	18.28	0.015	2	3	11.33	19	0.002	10	0.12	0.003	0.02	0.2	0.005	0.4	0.05	0.025	0.5	0.25	0.1
1540780	72	0.2	3.7	0.4	98	0.9	0.057	7	18	0.86	128	0.146	10	1.71	0.178	0.22	5	0.14	2.9	0.05	0.025	5	0.25	0.1
1540800	292	0.3	1.5	0.05	15	20.83	0.017	2	3	11.13	22	0.002	10	0.12	0.003	0.02	0.2	0.005	0.4	0.05	0.025	0.5	0.25	0.1
1540811	11	0.05	0.05	0.05	13	0.11	0.019	25	9	0.22	69	0.045	10	0.67	0.066	0.3	0.5	0.005	2.1	0.1	0.025	4	0.25	0.1
1540812	13	0.05	0.05	0.05	12	0.13	0.018	28	9	0.23	72	0.054	10	0.67	0.072	0.33	1.2	0.005	2	0.1	0.025	4	0.25	0.1
1540813																								
1540813	23	0.05	0.05	0.05	9	0.48	0.014	25	5	0.16	56	0.049	10	0.58	0.058	0.3	1.1	0.005	1.8	0.1	0.025	3	0.25	0.1
1540814	29	0.05	0.05	0.05	8	0.89	0.019	26	6	0.17	52	0.024	10	0.59	0.071	0.25	0.6	0.005	1.6	0.05	0.025	3	0.25	0.1
1540815	58	0.05	0.1	0.05	24	1.74	0.03	23	27	0.46	67	0.046	10	0.88	0.051	0.29	0.5	0.005	3.6	0.1	0.025	5	0.25	0.1
1540816	31	0.05	0.05	0.05	9	1.03	0.015	25	8	0.2	45	0.023	10	0.58	0.056	0.22	0.6	0.005	1.5	0.05	0.025	3	0.25	0.1
1540817	13	0.05	0.05	0.05	10	0.37	0.018	23	5	0.14	54	0.031	10	0.58	0.058	0.26	0.5	0.005	2	0.05	0.025	3	0.25	0.1
1540818	10	0.05	0.05	0.05	7	0.55	0.012	26	5	0.1	54	0.026	10	0.49	0.051	0.23	0.7	0.005	1.6	0.05	0.025	2	0.25	0.1
1540819	24	0.05	0.05	0.05	11	1.3	0.025	22	5	0.17	59	0.028	10	0.7	0.043	0.28	0.4	0.005	1.8	0.1	0.025	3	0.25	0.1
1540821	37	0.05	0.05	0.05	25	1.31	0.032	26	8	0.48	86	0.087	10	1.06	0.056	0.54	0.7	0.005	3.4	0.2	0.025	5	0.25	0.1
1540822	34	0.05	0.05	0.05	8	0.72	0.013	17	5	0.14	53	0.029	10	0.5	0.066	0.23	0.8	0.005	1.5	0.05	0.025	2	0.25	0.1
1540823	25	0.05	0.05	0.05	12	0.7	0.019	26	6	0.26	67	0.064	10	0.79	0.06	0.43	0.9	0.005	1.9	0.2	0.025	4	0.25	0.1
1540824	24	0.1	0.05	0.05	11	0.6	0.016	24	5	0.23	50	0.064	10	0.7	0.058	0.39	0.8	0.005	2.1	0.1	0.025	3	0.25	0.1
1540825	17	0.05	0.05	0.05	17	0.57	0.023	24	6	0.27	74	0.075	10	0.75	0.044	0.43	0.8	0.005	2.3	0.1	0.025	3	0.25	0.1
1540826	19	0.05	0.05	0.05	6	1.11	0.016	28	4	0.12	50	0.019	10	0.48	0.042	0.21	0.7	0.005	1.2	0.05	0.025	2	0.25	0.1
1540827	13	0.05	0.05	0.05	7	0.42	0.014	24	5	0.16	51	0.033	10	0.57	0.054	0.26	0.6	0.005	1.5	0.05	0.025	2	0.25	0.1
1540828	13	0.05	0.05	0.05	6	0.81	0.013	26	5	0.11	59	0.021	10	0.46	0.049	0.22	0.5	0.005	1.4	0.05	0.025	2	0.25	0.1
1540829	14	0.05	0.05	0.05	9	0.48	0.015	23	5	0.16	72	0.023	10	0.52	0.057	0.22	0.6	0.005	1.4	0.05	0.025	2	0.25	0.1
1540830	23	0.05	0.05	0.05	8	0.93	0.013	26	5	0.14	68	0.036	10	0.56	0.061	0.25	0.6	0.005	1.9	0.05	0.025	3	0.25	0.1
1540830	25	0.05	0.05	0.05	8	0.97	0.014	27	6	0.15	71	0.038	10	0.57	0.064	0.26	0.6	0.005	2	0.05	0.025	3	0.25	0.1
1540831	16	0.05	0.05	0.05	9	0.44	0.015	27	6	0.18	57	0.054	10	0.6	0.056	0.33	0.9	0.005	1.9	0.1	0.025	3	0.25	0.1
1540832	17	0.05	0.05	0.05	9	0.54	0.014	27	7	0.18	59	0.044	10	0.61	0.064	0.29	0.6	0.005	1.9	0.1	0.025	3	0.25	0.1
1540833	15	0.1	0.05	0.05	9	0.38	0.014	27	7	0.2	59	0.054	10	0.6	0.065	0.32	1	0.005	2	0.1	0.025	3	0.25	0.1
1540834	19	0.05	0.05	0.05	11	0.43	0.014	23	6	0.22	104	0.054	10	0.63	0.078	0.33	1.1	0.005	2.2	0.1	0.025	4	0.25	0.1
1540835	17	0.05	0.05	0.05	9	0.42	0.012	25	8	0.2	80	0.049	10	0.55	0.056	0.29	1.4	0.01	2.1	0.05	0.025	3	0.25	0.1
1540836	23	0.05	0.05	0.05	13	0.62	0.016	23	8	0.34	49	0.07	10	0.72	0.055	0.42	1.1	0.005	2.2	0.1	0.025	4	0.25	0.1
1540837	60	0.05	0.05	0.05	37	1.39	0.043	22	9	0.73	137	0.146	10	1.28	0.044	0.77	0.6	0.005	4.4	0.2	0.025	6	0.25	0.1
1540837	61	0.05	0.05	0.05	38	1.41	0.041	22	9	0.73	136	0.145	10	1.3	0.046	0.77	0.6	0.005	4.7	0.2	0.025	6	0.25	0.1
1540838	46	0.05	0.05	0.05	60	0.95	0.068	11	6	1.22	480	0.228	10	1.84	0.053	1.16	0.4	0.005	6	0.2	0.025	7	0.25	0.1
1540838																								
1540839	36	0.05	0.05	0.05	61	0.71	0.065	8	6	1.25	592	0.242	10	1.84	0.064	1.15	0.6	0.005	5	0.2	0.025	7	0.25	0.1
1540841	59	0.05	0.05	0.05	66	1.28	0.067	8	7	1.29	458	0.207	10	1.9	0.055	1.09	0.4	0.005	5.8	0.2	0.025	7	0.25	0.1
1540842	44	0.05	0.05	0.05	59	1.01	0.066	10	7	1.37	457	0.22	10	1.92	0.067	1.12	0.4	0.005	6.9	0.2	0.025	8	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pp	as_pp	au_ppl	th_pp
1540843	17L00027	150	155	SR03	20	Dry	Rock	WHI17000222	4.08	0.0025	1	2.9	1.2	67	0.05	2.2	9.9	1169	3.63	0.7	0.25	5.1
1540844	17L00027	155	160	SR03	20	Dry	Rock	WHI17000222	3.88	0.0025	1	2.8	1	53	0.05	2.3	8	854	2.83	0.25	1.1	8.3
1540845	17L00027	160	165	SR03	20	Dry	Rock	WHI17000222	4	0.0025	1.1	2.8	1.2	25	0.05	2.5	3	379	1.33	0.25	0.25	11.1
1540846	17L00027	165	170	SR03	20	Dry	Rock	WHI17000222	3.73	0.0025	1.4	3.8	2.8	36	0.05	2.6	4.2	588	1.81	0.9	0.25	9
1540820	17L00027			SR03			CDN-GS-P4F	WHI17000222	0.09	0.52	5.9	273	14.7	48	0.7	109.2	14.4	446	2.79	165.7	468.2	3.3
1540840	17L00027			SR03			Coarse Blar	WHI17000222	0.16	0.0025	0.3	1.9	4.4	21	0.1	3	0.5	109	0.17	2.8	2.9	0.2
1540847	17L00028	0	5	SR03	20	Dry	Rock	WHI17000222	1.66	0.005	1.6	9.8	3.6	54	0.05	8.2	7.6	881	2.74	0.6	3.5	9.5
1540848	17L00028	5	10	SR03	20	Dry	Rock	WHI17000222	4.29	0.013	1	5	2.9	34	0.05	3.5	4.6	469	1.74	0.5	11.5	8.7
1540849	17L00028	10	15	SR03	26	Dry	Rock	WHI17000222	7.08	0.007	0.8	6.7	2	40	0.05	2.8	4.4	481	1.84	0.25	8.8	8.2
1540850	17L00028	15	20	SR03	20	Dry	Rock	WHI17000222	3.84	0.0025	0.7	5.6	2.6	37	0.05	2.2	3.7	513	1.72	0.25	0.5	9.9
1540851	17L00028	20	25	SR03	20	Dry	Rock	WHI17000222	3.93	0.009	0.8	5	2.5	31	0.05	2	4	453	1.61	0.25	5.9	8.9
1540852	17L00028	25	30	SR03	20	Dry	Rock	WHI17000222	3.95	0.0025	0.8	4.4	2.3	37	0.05	2.3	4.5	491	1.98	0.25	0.25	9
1540853	17L00028	30	35	SR03	20	Dry	Rock	WHI17000222	4.05	0.0025	1	2.3	3.2	35	0.05	3	4.4	546	1.85	0.9	0.25	9.2
1540854	17L00028	35	40	SR03	20	Dry	Rock	WHI17000222	3.83	0.0025	1.7	4.5	5.4	43	0.05	2.6	5.4	729	2.13	1.1	0.8	7.7
1540855	17L00028	40	45	SR03	20	Dry	Rock	WHI17000222	3.39	0.0025	0.9	2.8	3	37	0.05	2	4.5	626	2.06	0.7	0.25	9.7
1540856	17L00028	45	50	SR03	20	Dry	Rock	WHI17000222	4.42	0.0025	0.6	4.7	2.9	39	0.05	1.9	5.4	554	2.2	0.7	0.25	8.6
1540857	17L00028	50	55	SR03	20	Dry	Rock	WHI17000222	4.06	0.0025	0.7	11.5	3.2	39	0.05	4.2	6.3	623	2.17	0.25	0.25	7.4
1540858	17L00028	55	60	SR03	20	Dry	Rock	WHI17000222	4.16	0.0025	0.7	6.2	2.3	33	0.05	2.4	4.8	457	1.83	0.25	1.6	9.3
1540859	17L00028	60	65	SR03	20	Dry	Rock	WHI17000222	4.02	0.0025	0.7	6.5	2.3	36	0.05	2.9	4.7	472	1.87	0.8	3.7	9.2
1540861	17L00028	65	70	SR03	20	Dry	Rock	WHI17000222	4.04	0.0025	0.8	6.5	2.9	33	0.05	1.9	4.2	463	1.8	1.5	0.25	15.3
1540862	17L00028	70	75	SR03	20	Dry	Rock	WHI17000222	4.03	0.0025	0.8	2.9	2.7	38	0.05	2	4	478	1.91	0.8	0.25	10.4
1540863	17L00028	75	80	SR03	20	Dry	Rock	WHI17000222	4.01	0.0025	0.8	4.3	3.5	39	0.05	2.1	4.7	547	2	0.25	0.25	8.5
1540864	17L00028	80	85	SR03	20	Dry	Rock	WHI17000222	3.56	0.0025	1.1	2	2.5	37	0.05	1.9	4.5	583	2.03	0.25	1.8	9.8
1540865	17L00028	85	90	SR03	20	Dry	Rock	WHI17000222	3.83	0.0025	1	3.4	2.7	35	0.05	2.1	4.6	500	1.85	0.25	2	11.4
1540866	17L00028	90	95	SR03	20	Dry	Rock	WHI17000222	4.75	0.0025	1	4.6	2.8	38	0.05	2.3	4.5	541	1.92	0.25	0.25	10
1540867	17L00028	95	100	SR03	20	Dry	Rock	WHI17000222	4.42	0.0025	1.2	3.6	2.4	40	0.05	2.6	4.3	537	1.86	0.25	0.9	9.3
1540868	17L00028	100	105	SR03	20	Dry	Rock	WHI17000222	4.35	0.0025	1.1	3.2	2.4	41	0.05	2	4.2	542	1.84	0.25	0.5	10.4
1540869	17L00028	105	110	SR03	20	Dry	Rock	WHI17000222	3.9	0.0025	2.2	7	4.1	46	0.05	2	4.1	536	1.82	0.25	1.1	9.8
1540870	17L00028	110	115	SR03	20	Dry	Rock	WHI17000222	3.69	0.0025	1.7	46.2	6.3	42	0.1	1.5	3.7	501	1.77	0.7	0.25	8.3
1540871	17L00028	115	120	SR03	20	Dry	Rock	WHI17000222	3.8	0.0025	4.9	46.6	7.3	40	0.05	1.7	4.5	670	1.95	0.25	0.25	9.3
1540871	17L00028	115	120	SR03	20	Dry	DUP	WHI17000222		0.0025	5.2	44.1	7.2	37	0.05	1.7	4.2	651	1.94	0.25	0.25	9.5
1540872	17L00028	120	125	SR03	20	Dry	Rock	WHI17000222	4.08	0.0025	3.3	90	8.3	48	0.1	1.9	4.1	535	1.89	0.6	0.25	10.1
1540873	17L00028	125	130	SR03	20	Dry	Rock	WHI17000222	4.1	0.0025	3.1	28.3	6.5	32	0.05	1.4	3.3	426	1.4	0.7	0.25	9.7
1540874	17L00028	130	135	SR03	20	Dry	Rock	WHI17000222	3.97	0.05	7.7	11.3	8.9	36	0.1	1.8	5	644	1.65	1.1	37.8	8.7
1540875	17L00028	135	140	SR03	20	Dry	Rock	WHI17000222	3.67	0.0025	2.2	10.4	4.8	34	0.05	1.6	3.3	483	1.56	0.6	1.7	10
1540876	17L00028	140	145	SR03	20	Dry	Rock	WHI17000222	3.88	0.0025	2.9	12.1	3.2	40	0.05	1.8	4	477	1.9	0.25	0.25	9.9
1540877	17L00028	145	150	SR03	20	Dry	Rock	WHI17000222	4.79	0.014	8.5	53.7	7.5	43	0.1	1.8	4.5	647	1.84	0.8	8.2	9.4
1540878	17L00028	150	155	SR03	20	Dry	Rock	WHI17000222	4.03	0.0025	7.6	13.8	6.7	38	0.05	1.8	3.7	700	1.72	0.6	1.6	10.3
1540879	17L00028	155	160	SR03	20	Dry	Rock	WHI17000222	3.97	0.0025	2.3	3.3	2.1	39	0.05	2.2	4.1	571	1.87	0.25	0.25	11.3
1540881	17L00028	160	165	SR03	20	Dry	Rock	WHI17000222	4.15	0.0025	3.9	4.2	4.2	34	0.05	1.7	3.7	576	1.81	1	0.9	9.7
1540882	17L00028	165	170	SR03	20	Dry	Rock	WHI17000269	3.81	0.0025	4.5	3.8	2.4	41	0.05	1.3	3.7	615	1.74	0.25	0.8	12
1540883	17L00028	170	175	SR03	20	Dry	Rock	WHI17000269	3.92	0.0025	2.5	2.8	2.8	36	0.05	1.3	3.9	586	1.87	0.25	0.25	10.1
1540884	17L00028	175	180	SR03	20	Dry	Rock	WHI17000269	3.1	0.0025	1.8	3.2	2.6	39	0.05	1.6	4.3	580	1.86	0.25	0.25	10.3

Appendix II

sample	sr_pct	cd_ppr	sbppm	bippm	vppm	capct	p_pct	la_cr	mg_pct	ba_pct	tipct	bppml	al_pct	na_pct	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga_pct	seppm	teppr	
1540843	41	0.05	0.05	0.05	70	0.9	0.06	14	6	1.37	430	0.271	10	2.08	0.057	1.41	0.3	0.005	8.5	0.3	0.025	9	0.25	0.1
1540844	27	0.05	0.05	0.05	53	0.73	0.039	23	7	1.02	159	0.203	10	1.63	0.054	1.1	0.5	0.005	6	0.2	0.025	7	0.25	0.1
1540845	28	0.05	0.05	0.05	11	0.9	0.018	24	9	0.33	37	0.028	10	0.64	0.044	0.2	0.6	0.005	1.5	0.05	0.025	4	0.25	0.1
1540846	47	0.05	0.05	0.05	23	1.71	0.03	24	8	0.42	77	0.076	10	0.98	0.035	0.42	0.4	0.01	2.9	0.1	0.025	5	0.25	0.1
1540820	76	0.2	1.5	0.1	62	1.69	0.031	8	107	1.39	123	0.104	10	2.67	0.306	0.2	1	0.04	2.7	0.05	0.1	5	0.25	0.1
1540840	285	0.3	1.4	0.05	15	19.95	0.015	1	3	11.17	19	0.003	10	0.12	0.002	0.02	0.2	0.005	0.4	0.05	0.025	0.5	0.25	0.1
1540847	13	0.05	0.2	0.05	39	0.41	0.049	29	10	0.68	167	0.09	10	1.33	0.032	0.46	0.3	0.005	6.4	0.1	0.025	5	0.25	0.1
1540848	19	0.05	0.05	0.1	17	1.07	0.032	24	6	0.31	65	0.02	10	0.7	0.039	0.2	0.4	0.005	2	0.05	0.025	3	0.25	0.1
1540849	17	0.05	0.05	0.05	22	0.7	0.03	24	6	0.44	73	0.056	10	0.87	0.052	0.32	0.6	0.005	2.9	0.05	0.025	4	0.25	0.1
1540850	32	0.05	0.1	0.05	17	1.08	0.029	27	5	0.35	63	0.037	10	0.76	0.04	0.25	0.3	0.005	2.8	0.05	0.025	4	0.25	0.1
1540851	22	0.05	0.1	0.2	15	0.99	0.028	24	5	0.28	71	0.031	10	0.69	0.043	0.26	0.4	0.005	2.3	0.05	0.025	3	0.25	0.1
1540852	35	0.05	0.1	0.05	21	0.85	0.032	24	5	0.37	89	0.071	10	0.91	0.05	0.4	0.3	0.005	3.7	0.1	0.025	5	0.25	0.1
1540853	51	0.05	0.1	0.05	15	1.44	0.031	28	6	0.33	47	0.013	10	0.79	0.044	0.19	0.2	0.005	2.6	0.05	0.025	4	0.25	0.1
1540854	60	0.05	0.05	0.05	20	3.14	0.033	27	6	0.32	81	0.006	10	0.79	0.037	0.17	0.2	0.005	2.9	0.05	0.025	4	0.25	0.1
1540855	53	0.05	0.05	0.05	22	1.65	0.031	29	5	0.38	94	0.075	10	1	0.03	0.42	0.4	0.005	4.1	0.1	0.025	5	0.25	0.1
1540856	50	0.05	0.05	0.05	34	1.57	0.037	26	6	0.48	118	0.078	10	1.1	0.03	0.44	0.4	0.005	4.5	0.1	0.025	5	0.25	0.1
1540857	65	0.05	0.05	0.05	29	1.96	0.034	22	11	0.58	83	0.055	10	1.06	0.035	0.31	0.3	0.005	4.2	0.05	0.025	5	0.25	0.1
1540858	40	0.05	0.1	0.05	18	1.49	0.031	29	6	0.35	47	0.019	10	0.81	0.037	0.21	0.2	0.01	3.2	0.05	0.025	4	0.25	0.1
1540859	44	0.05	0.05	0.05	24	1.28	0.033	26	7	0.4	84	0.088	10	0.97	0.036	0.5	0.4	0.005	4.1	0.1	0.025	5	0.25	0.1
1540861	48	0.05	0.05	0.05	19	1.23	0.026	50	6	0.29	78	0.061	10	0.82	0.047	0.36	0.4	0.005	3.8	0.1	0.025	4	0.25	0.1
1540862	44	0.05	0.05	0.05	22	1.17	0.031	30	6	0.33	90	0.094	10	0.89	0.049	0.47	0.5	0.005	4.3	0.1	0.025	4	0.25	0.1
1540863	49	0.05	0.05	0.05	23	1.38	0.037	28	6	0.39	110	0.102	10	1	0.048	0.53	0.5	0.005	3.8	0.2	0.025	4	0.25	0.1
1540864	47	0.05	0.05	0.05	23	1.39	0.034	30	6	0.4	102	0.115	10	0.94	0.057	0.56	0.6	0.005	4.4	0.1	0.025	5	0.25	0.1
1540865	46	0.05	0.05	0.05	20	1.35	0.03	32	6	0.34	87	0.093	10	0.89	0.053	0.48	0.5	0.005	4.1	0.2	0.025	4	0.25	0.1
1540866	46	0.05	0.05	0.05	21	1.2	0.035	27	7	0.39	106	0.1	10	0.9	0.058	0.5	0.6	0.005	3.8	0.2	0.025	4	0.25	0.1
1540867	38	0.05	0.05	0.05	23	1.06	0.04	23	7	0.39	91	0.086	10	0.83	0.061	0.43	0.8	0.005	3.5	0.1	0.025	4	0.25	0.1
1540868	37	0.05	0.05	0.05	21	0.95	0.032	29	6	0.38	89	0.099	10	0.85	0.053	0.46	0.8	0.005	3.5	0.1	0.025	4	0.25	0.1
1540869	45	0.05	0.05	0.1	19	1.18	0.03	27	6	0.34	88	0.091	10	0.83	0.046	0.42	0.7	0.005	3.4	0.1	0.025	5	0.25	0.1
1540870	55	0.05	0.05	0.1	20	1.2	0.033	25	6	0.32	97	0.087	10	0.87	0.04	0.42	0.5	0.005	3.1	0.2	0.025	4	0.25	0.1
1540871	68	0.2	0.05	0.05	21	1.84	0.032	27	5	0.28	83	0.086	10	0.85	0.035	0.45	0.4	0.005	4.6	0.2	0.025	4	0.25	0.1
1540871	70	0.2	0.05	0.05	21	1.87	0.032	30	5	0.28	89	0.088	10	0.85	0.033	0.45	0.5	0.005	4.2	0.2	0.025	4	0.25	0.1
1540872	52	0.2	0.05	0.4	19	1.38	0.026	29	6	0.24	67	0.053	10	0.75	0.043	0.32	0.3	0.005	4.3	0.1	0.025	4	0.25	0.1
1540873	58	0.1	0.05	0.1	14	2.04	0.029	24	5	0.16	81	0.031	10	0.64	0.013	0.22	0.2	0.005	4	0.05	0.025	3	0.25	0.1
1540874	93	0.1	0.05	0.3	13	4.62	0.031	23	5	0.1	138	0.007	10	0.4	0.022	0.18	0.2	0.005	2.6	0.05	0.025	2	0.25	0.1
1540875	40	0.05	0.05	0.1	16	1.79	0.027	26	6	0.16	51	0.042	10	0.62	0.031	0.28	0.3	0.005	4.3	0.1	0.025	3	0.25	0.1
1540876	30	0.05	0.05	0.5	19	0.83	0.032	24	6	0.29	74	0.083	10	0.9	0.042	0.47	0.5	0.005	3.6	0.2	0.025	4	0.25	0.1
1540877	58	0.2	0.05	2	14	2.09	0.034	25	5	0.2	188	0.045	10	0.7	0.021	0.34	0.7	0.005	3.2	0.1	0.025	3	0.25	0.1
1540878	73	0.1	0.05	0.2	13	2.42	0.034	28	7	0.16	162	0.017	10	0.55	0.038	0.22	0.4	0.005	3.4	0.05	0.025	2	0.25	0.1
1540879	32	0.05	0.1	0.05	17	0.8	0.031	29	7	0.33	58	0.028	10	0.74	0.047	0.22	0.4	0.005	3.2	0.05	0.025	4	0.25	0.1
1540881	65	0.05	0.1	0.05	18	1.89	0.031	26	7	0.17	75	0.037	10	0.6	0.037	0.25	0.4	0.005	3.9	0.05	0.025	3	0.25	0.1
1540882	40	0.05	0.05	0.05	20	1.15	0.028	30	7	0.27	84	0.08	10	0.72	0.044	0.39	0.6	0.005	5	0.1	0.025	4	0.25	0.1
1540883	51	0.05	0.05	0.05	20	1.32	0.029	28	7	0.28	72	0.063	10	0.77	0.045	0.36	0.5	0.005	4.7	0.1	0.025	3	0.25	0.1
1540884	49	0.05	0.05	0.05	23	0.91	0.032	29	7	0.35	92	0.1	10	0.84	0.04	0.47	0.6	0.005	4.8	0.2	0.025	4	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pct	as_pp	au_pp	plth_pp	
1540885	17L00028	180	185	SR03	20	Dry	Rock	WHI17000269	4.23	0.0025	2.2	4.2	6.1	39	0.05	1.6	4.3	628	1.8	0.25	0.25	8.8	
1540886	17L00028	185	190	SR03	20	Dry	Rock	WHI17000269	3.8	0.0025	3.7	5.8	4.4	51	0.05	1.8	4.3	559	1.71	0.25	1	7.6	
1540887	17L00028	190	195	SR03	20	Dry	Rock	WHI17000269	3.16	0.0025	5.4	7.4	7.1	60	0.05	1.5	4.6	702	1.95	0.6	1.8	9.8	
1540888	17L00028	195	200	SR03	20	Dry	Rock	WHI17000269	4.01	0.0025	4.1	6.9	6	47	0.05	1.5	3.7	538	1.6	0.25	0.25	9.8	
1540889	17L00028	200	205	SR03	20	Dry	Rock	WHI17000269	3.77	0.0025	4.2	7.4	6.2	44	0.05	0.9	3.9	680	1.58	0.8	0.25	9.1	
1540890	17L00028	205	210	SR03	20	Dry	Rock	WHI17000269	3.77	0.0025	2.2	8.5	4.1	37	0.05	1.5	3.1	562	1.47	0.25	0.25	9.3	
1540891	17L00028	210	215	SR03	20	Dry	Rock	WHI17000269	3.81	0.0025	2.9	6	4.2	32	0.05	1.4	2.8	512	1.48	0.25	0.25	9.9	
1540892	17L00028	215	220	SR03	20	Dry	Rock	WHI17000269	4.26	0.0025	2.4	6.6	3.1	38	0.05	1.8	2.8	371	1.31	0.25	0.25	12.4	
1540893	17L00028	220	225	SR03	20	Dry	Rock	WHI17000269	3.38	0.0025	2.4	5.3	2.1	30	0.05	2	2.8	406	1.41	0.25	0.25	9.9	
1540894	17L00028	225	230	SR03	20	Dry	Rock	WHI17000269	3.81	0.0025	3.6	6.5	3.2	31	0.05	2	2.8	445	1.39	0.25	0.9	12	
1540895	17L00028	230	235	SR03	20	Dry	Rock	WHI17000269	3.16	0.0025	2.7	6.2	2.4	30	0.05	2	2.8	475	1.41	0.25	0.25	13.7	
1540896	17L00028	235	240	SR03	20	Dry	Rock	WHI17000269	2.99	0.0025	1.5	3.4	2.6	26	0.05	1.4	2.5	366	1.36	0.25	0.25	10	
1540897	17L00028	240	245	SR03	20	Dry	Rock	WHI17000269	3.32	0.0025	1.9	3.6	2.2	29	0.05	1.7	2.6	503	1.36	0.25	0.25	11.1	
1540898	17L00028	245	250	SR03	20	Dry	Rock	WHI17000269	4.32	0.0025	2.1	4.7	3.2	25	0.05	1.5	2.7	515	1.21	0.25	1.2	12.3	
1540899	17L00028	250	255	SR03	20	Dry	Rock	WHI17000269	4.02	0.0025	2.5	3	2.7	28	0.05	1.9	2.6	387	1.19	0.25	0.25	12.7	
1540901	17L00028	255	260	SR03	20	Dry	Rock	WHI17000269	4.21	0.0025	4.2	4.6	4.7	39	0.05	1.7	4.1	654	1.94	0.25	0.25	12.1	
1540902	17L00028	260	265	SR03	20	Dry	Rock	WHI17000269	4.51	0.0025	2.3	6.1	3	36	0.05	1.7	4.5	579	1.86	0.25	0.6	10.6	
1540903	17L00028	265	270	SR03	20	Dry	Rock	WHI17000269	3.62	0.0025	2.8	6.1	3.4	38	0.05	2.1	5.5	602	1.94	0.5	1.1	9.8	
1540904	17L00028	270	275	SR03	20	Dry	Rock	WHI17000269	4.21	0.052	3.3	18	5.3	34	0.05	2	5	513	1.72	0.5	52.2	10.2	
1540904	17L00028	270	275	SR03	20	Dry	Rock	WHI17000269			3.2	17.3	5.4	36	0.05	1.9	5	483	1.64	0.25	22.4	9.3	
1540905	17L00028	275	280	SR03	20	Dry	Rock	WHI17000269	4.6	0.0025	3	4.3	7.9	41	0.05	1.5	4.3	681	2.04	1.1	4.6	7.7	
1540906	17L00028	280	285	SR03	20	Dry	Rock	WHI17000269	3.83	0.0025	4.2	4.1	4.7	38	0.05	1.6	4.6	472	1.95	0.9	0.25	9.5	
1540907	17L00028	285	290	SR03	20	Dry	Rock	WHI17000269	3.5	0.0025	2	4.7	2.9	41	0.05	2.3	5.3	503	2.07	0.25	0.9	9.1	
1540908	17L00028	290	295	SR03	20	Dry	Rock	WHI17000269	3.07	0.0025	3.5	6.3	3.4	42	0.05	2	5	458	1.86	0.25	0.25	10.3	
1540909	17L00028	295	300	SR03	20	Dry	Rock	WHI17000269	3.12	0.0025	3.6	7.5	4	45	0.05	1.9	5.3	493	2.05	0.25	0.25	12.6	
1540910	17L00028	300	305	SR03	20	Dry	Rock	WHI17000269	4.02	0.0025	2.7	8.3	3	45	0.05	2	4.6	472	1.84	0.25	0.25	10.9	
1540911	17L00028	305	310	SR03	20	Dry	Rock	WHI17000269	3.9	0.0025	4.2	5.7	4.4	49	0.05	1.9	4.9	602	2.08	0.25	0.25	12.4	
1540912	17L00028	310	315	SR03	20	Dry	Rock	WHI17000269		0.0025	1.8	13.7	4.3	37	0.05	2.5	4.7	569	1.96	0.25	0.25	7.6	
1540912	17L00028	310	315	SR03	20	Dry	Rock	WHI17000269	4.24	0.0025	1.8	13.9	4.6	43	0.05	2.4	4.7	536	1.93	0.25	0.6	8.4	
1540912	17L00028	310	315	SR03	20	Dry	Rock	WHI17000269		0.0025													
1540913	17L00028	315	320	SR03	20	Dry	Rock	WHI17000269	4.11	0.0025	2.4	7.9	5.1	42	0.05	2.2	5.5	527	2.06	0.25	1	11.3	
1540914	17L00028	320	325	SR03	20	Dry	Rock	WHI17000269	3.13	0.0025	2.7	2.6	3.3	42	0.05	1.4	4.6	551	2	0.25	0.25	9.8	
1540915	17L00028	325	330	SR03	20	Dry	Rock	WHI17000269	4.6	0.0025	3	3.8	3.8	33	0.05	1.8	4.1	384	1.68	0.25	0.7	9.6	
1540860	17L00028			SR03			CDN-GS-5U	WHI17000222	0.09	5.199	7.7	187	21.6	74	1	14.5	11.1	557	4.16	10.9	7577	2.7	
1540880	17L00028			SR03			Coarse Blar	WHI17000222			0.3	1.8	4.5	20	0.1	2.3	0.6	110	0.16	2.9	1.3	0.3	
1540880	17L00028			SR03			Coarse Blar	WHI17000222	0.15	0.0025	0.3	2.9	4.5	21	0.1	2.6	0.5	119	0.16	2.7	1.9	0.3	
1540900	17L00028			SR03			CDN-GS-P4F	WHI17000269	0.12	0.573	7.1	299	17.1	56	0.8	114.1	14.5	455	2.89	169.9	858.3	3.8	
1540916	17L00029	0	5	SR03	10	Dry	Rock	WHI17000269	1.93	0.006	0.7	9.1	3.4	55	0.05	3.9	8.1	755	2.69	0.8	2.5	10.4	
1540917	17L00029	5	10	SR03	12	Dry	Rock	WHI17000269	3	0.0025	1	2.9	3.8	36	0.05	3.2	4.9	568	1.92	0.25	0.8	8.4	
1540918	17L00029	10	15	SR03	25	Dry	Rock	WHI17000269	5.74	0.0025	0.5	2.4	3.3	41	0.05	1.9	4.4	486	1.84	0.6	1.2	11.2	
1540919	17L00029	15	20	SR03	19	Dry	Rock	WHI17000269	3.77	0.0025	0.6	1.8	3.3	37	0.05	2	4.5	579	1.9	0.25	1.5	9.8	
1540921	17L00029	20	25	SR03	20	Dry	Rock	WHI17000269	3.94	0.0025	0.9	4.9	4.4	43	0.05	2.9	6	646	2.13	0.25	0.8	9.6	
1540922	17L00029	25	30	SR03	20	Dry	Rock	WHI17000269	3.93	0.0025	0.7	2.8	3.2	39	0.05	2	4.2	516	1.75	0.25	0.25	11.2	

Appendix II

sample	sr_pi	cd_ppr	sbbpm	bippm	vppm	capct	p_pct	la_cr	mg_pct	ba_pct	tipct	bppal	al_pct	na_pct	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga	seppm	teppr	
1540885	66	0.1	0.05	0.05	19	1.76	0.027	30	6	0.28	96	0.072	10	0.8	0.037	0.42	0.5	0.005	3.5	0.1	0.025	3	0.25	0.1
1540886	42	0.1	0.05	0.05	18	1.2	0.03	22	6	0.3	84	0.07	10	0.76	0.027	0.42	0.7	0.005	4.3	0.1	0.025	4	0.25	0.1
1540887	62	0.3	0.05	0.05	20	1.82	0.029	30	6	0.28	123	0.075	10	0.9	0.023	0.44	0.7	0.005	4.4	0.1	0.025	4	0.25	0.1
1540888	64	0.05	0.05	0.2	17	1.69	0.027	25	6	0.22	90	0.055	10	0.71	0.017	0.32	0.5	0.005	4.5	0.1	0.025	4	0.25	0.1
1540889	98	0.1	0.05	0.2	13	2.59	0.025	24	4	0.18	74	0.021	10	0.65	0.015	0.21	0.2	0.01	3.9	0.05	0.025	3	0.25	0.1
1540890	87	0.05	0.05	0.3	11	1.88	0.025	27	7	0.24	145	0.028	10	0.54	0.03	0.21	0.5	0.005	2.7	0.05	0.025	2	0.25	0.1
1540891	56	0.05	0.05	0.2	9	1.6	0.023	29	7	0.16	51	0.025	10	0.63	0.032	0.22	0.4	0.005	2.5	0.05	0.025	3	0.25	0.1
1540892	38	0.1	0.05	0.1	10	0.8	0.023	27	7	0.16	51	0.037	10	0.53	0.034	0.24	0.6	0.005	3.1	0.1	0.025	3	0.25	0.1
1540893	23	0.05	0.05	0.05	13	0.58	0.031	28	8	0.25	80	0.057	10	0.68	0.036	0.32	0.7	0.005	2.4	0.1	0.025	3	0.25	0.1
1540894	37	0.05	0.05	0.05	11	0.81	0.023	26	8	0.16	82	0.034	10	0.54	0.038	0.24	0.8	0.005	2.9	0.1	0.025	3	0.25	0.1
1540895	42	0.05	0.05	0.05	11	0.62	0.023	30	10	0.17	68	0.06	10	0.54	0.043	0.29	1.4	0.005	3.6	0.1	0.025	3	0.25	0.1
1540896	32	0.05	0.05	0.05	13	0.63	0.025	25	8	0.21	55	0.052	10	0.69	0.044	0.33	0.8	0.005	2.6	0.1	0.025	3	0.25	0.1
1540897	54	0.05	0.05	0.05	11	1.2	0.026	30	9	0.25	43	0.033	10	0.5	0.034	0.22	0.9	0.005	2.4	0.05	0.025	3	0.25	0.1
1540898	71	0.05	0.05	0.05	8	1.7	0.024	32	7	0.14	71	0.012	10	0.46	0.032	0.17	0.4	0.005	2.6	0.05	0.025	2	0.25	0.1
1540899	52	0.05	0.05	0.05	10	1.03	0.024	37	8	0.2	67	0.036	10	0.55	0.034	0.24	0.6	0.005	2.7	0.05	0.025	3	0.25	0.1
1540901	118	0.05	0.05	0.05	22	2.47	0.033	36	7	0.27	146	0.035	10	0.72	0.032	0.28	0.3	0.005	3.8	0.05	0.025	4	0.25	0.1
1540902	86	0.05	0.05	0.05	26	1.43	0.029	27	9	0.33	106	0.083	10	0.79	0.04	0.42	0.7	0.005	3.7	0.1	0.025	4	0.25	0.1
1540903	81	0.05	0.1	0.05	25	1.42	0.033	22	9	0.3	97	0.053	10	0.81	0.035	0.36	0.4	0.005	4.3	0.1	0.025	4	0.25	0.1
1540904	118	0.05	0.05	0.05	14	2.88	0.042	26	7	0.27	71	0.005	10	0.42	0.024	0.19	0.2	0.005	2.6	0.05	0.025	2	0.25	0.1
1540904	116	0.05	0.05	0.05	14	2.75	0.037	24	7	0.26	70	0.004	10	0.4	0.022	0.18	0.3	0.005	2.3	0.05	0.025	2	0.25	0.1
1540905	183	0.1	0.05	0.05	17	4.8	0.027	25	6	0.31	54	0.005	10	0.46	0.025	0.15	0.1	0.005	3.5	0.05	0.025	2	0.25	0.1
1540906	90	0.05	0.05	0.05	25	2.1	0.044	25	7	0.32	81	0.029	10	0.8	0.021	0.28	0.3	0.005	3.7	0.05	0.025	4	0.25	0.1
1540907	50	0.05	0.05	0.05	25	1.01	0.034	24	9	0.4	66	0.045	10	0.92	0.043	0.32	0.2	0.005	3.6	0.1	0.025	4	0.25	0.1
1540908	68	0.05	0.05	0.05	24	1.19	0.032	29	9	0.27	85	0.051	10	0.75	0.032	0.33	0.4	0.005	3.8	0.1	0.025	3	0.25	0.1
1540909	83	0.05	0.1	0.05	27	1.4	0.034	29	8	0.29	77	0.067	10	0.85	0.034	0.39	0.6	0.005	5	0.2	0.025	4	0.25	0.1
1540910	65	0.05	0.05	0.05	30	1.05	0.033	28	9	0.35	111	0.081	10	0.88	0.03	0.47	0.6	0.005	3.7	0.2	0.025	5	0.25	0.1
1540911	73	0.05	0.05	0.05	28	1.14	0.028	30	10	0.43	166	0.115	10	0.98	0.048	0.54	0.6	0.005	4.8	0.2	0.025	5	0.25	0.1
1540912	57	0.05	0.05	0.05	30	1.32	0.038	24	13	0.46	179	0.097	10	0.94	0.034	0.52	0.6	0.005	4.1	0.1	0.025	4	0.25	0.1
1540912	60	0.05	0.05	0.05	29	1.3	0.035	23	11	0.46	152	0.102	10	0.93	0.033	0.52	0.7	0.005	4.7	0.1	0.025	5	0.25	0.1
1540912																								
1540913	83	0.05	0.05	0.05	30	1.26	0.031	29	9	0.45	102	0.104	10	0.99	0.036	0.51	0.7	0.005	5.6	0.1	0.025	5	0.25	0.1
1540914	61	0.05	0.05	0.05	26	0.95	0.034	28	9	0.36	90	0.06	10	0.84	0.04	0.34	0.4	0.005	4.3	0.05	0.025	4	0.25	0.1
1540915	58	0.05	0.05	0.05	21	1	0.033	25	7	0.24	53	0.034	10	0.69	0.025	0.26	0.2	0.005	2.9	0.05	0.025	3	0.25	0.1
1540860	70	0.1	3.8	0.4	97	0.87	0.056	7	18	0.84	130	0.142	10	1.7	0.171	0.22	5.5	0.17	3	0.05	0.025	5	0.25	0.1
1540880	297	0.3	1.4	0.05	15	20.29	0.017	2	3	11.28	17	0.002	10	0.1	0.002	0.02	0.2	0.005	0.4	0.05	0.025	0.5	0.25	0.1
1540880	303	0.3	1.4	0.05	15	20.15	0.017	2	3	11.14	18	0.002	10	0.1	0.002	0.02	0.2	0.005	0.3	0.05	0.025	0.5	0.25	0.1
1540900	98	0.3	1.5	0.2	67	1.82	0.031	8	106	1.46	123	0.111	10	2.74	0.322	0.22	0.9	0.03	3.4	0.05	0.1	6	0.25	0.1
1540916	23	0.05	0.1	0.05	51	0.48	0.042	27	6	0.74	197	0.13	10	1.42	0.038	0.55	0.2	0.005	6.3	0.2	0.025	6	0.25	0.1
1540917	41	0.05	0.05	0.05	24	2.07	0.032	24	5	0.33	137	0.083	10	0.9	0.025	0.47	0.5	0.005	3.8	0.1	0.025	4	0.25	0.1
1540918	51	0.05	0.05	0.05	25	1.35	0.035	27	3	0.37	104	0.097	10	1.03	0.03	0.53	0.6	0.005	4.4	0.2	0.025	5	0.25	0.1
1540919	55	0.05	0.05	0.05	24	1.62	0.035	31	4	0.37	112	0.101	10	1	0.036	0.52	0.3	0.005	3.9	0.2	0.025	5	0.25	0.1
1540921	64	0.05	0.05	0.05	37	2.69	0.052	29	5	0.45	176	0.107	10	1.05	0.022	0.58	0.3	0.005	6.1	0.2	0.025	5	0.25	0.1
1540922	46	0.05	0.05	0.1	21	1.45	0.032	27	5	0.31	113	0.089	10	0.9	0.044	0.47	0.3	0.005	3.4	0.2	0.025	5	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pc	as_pp	au_pp	plth_pp	
1540923	17L00029	30	35	SR03	20	Dry	Rock	WHI17000269	4.04	0.0025	0.8	5.9	2.7	31	0.05	2.4	3	339	1.34	0.25	1.1	13	
1540924	17L00029	35	40	SR03	20	Dry	Rock	WHI17000269	4.08	0.0025	1.1	6.5	3	33	0.05	1.7	2.8	342	1.49	0.25	0.25	14.7	
1540925	17L00029	40	45	SR03	20	Dry	Rock	WHI17000269	3.95	0.0025	1.2	20.8	5.7	29	0.05	1.6	3.3	425	1.58	0.25	0.25	10.2	
1540926	17L00029	45	50	SR03	20	Dry	Rock	WHI17000269	3.72	0.0025	1.3	42.3	6.1	37	0.05	1.7	3.4	426	1.57	0.25	0.25	8.2	
1540927	17L00029	50	55	SR03	20	Dry	Rock	WHI17000269	4.16	0.0025	1.5	15.1	6.8	50	0.05	2.2	5.4	624	2	0.25	0.25	12	
1540928	17L00029	55	60	SR03	22	Dry	Rock	WHI17000269	5.22	0.0025	0.9	5.2	5.5	45	0.05	1.7	4.9	596	1.94	0.25	0.25	10.1	
1540929	17L00029	60	65	SR03	22	Dry	Rock	WHI17000269	4.88	0.0025	1.2	8.7	5.2	52	0.05	2	5	641	1.94	0.25	0.25	10.8	
1540930	17L00029	65	70	SR03	20	Dry	Rock	WHI17000269	4.63	0.0025	1	10.5	4.2	46	0.05	1.7	3.1	473	1.46	0.25	0.7	9.3	
1540931	17L00029	70	75	SR03	20	Dry	Rock	WHI17000269	4.23	0.0025	0.9	3.5	3.4	31	0.05	2	2.7	432	1.42	0.25	0.25	12.4	
1540932	17L00029	75	80	SR03	20	Dry	Rock	WHI17000269	4.54	0.0025	2	4.2	3.9	25	0.05	1.5	2.6	465	1.35	0.25	1.1	10.4	
1540933	17L00029	80	85	SR03	20	Dry	Rock	WHI17000269		0.0025													
1540933	17L00029	80	85	SR03	20	Dry	Rock	WHI17000269	4.11	0.0025	0.9	3.9	3.1	26	0.05	2.3	2.6	355	1.14	0.25	0.8	11.1	
1540934	17L00029	85	90	SR03	20	Dry	Rock	WHI17000269	4.26	0.0025	0.9	4.6	4.1	32	0.05	1.6	2.7	465	1.38	0.25	0.25	12	
1540935	17L00029	90	95	SR03	20	Dry	Rock	WHI17000269	4.15	0.0025	1	3	3.4	25	0.05	1.8	2.3	347	1.12	0.25	0.6	12.7	
1540936	17L00029	95	100	SR03	20	Dry	Rock	WHI17000269	5.23	0.0025	3.3	2.8	7.1	37	0.05	1.7	3.3	658	1.69	0.25	1	8.7	
1540937	17L00029	100	105	SR03	20	Dry	Rock	WHI17000269	4.74	0.0025	1.4	3	3.1	33	0.05	1.6	2.6	471	1.31	0.25	0.25	9	
1540938	17L00029	105	110	SR03	20	Dry	Rock	WHI17000269	4.67	0.0025	1.4	4.4	3.9	47	0.05	2.3	3.5	524	1.58	0.25	0.25	8.2	
1540939	17L00029	110	115	SR03	20	Dry	Rock	WHI17000269			1.1	6.2	2.7	47	0.05	2.1	3.5	432	1.62	0.25	0.25	7.3	
1540939	17L00029	110	115	SR03	20	Dry	Rock	WHI17000269	4.65	0.0025	1	6.5	3.1	53	0.05	2.1	3.7	440	1.62	0.25	0.9	7.2	
1540941	17L00029	115	120	SR03	20	Dry	Rock	WHI17000269	4.34	0.013	1	7.4	3	32	0.05	1.6	3.3	385	1.38	0.25	14.6	6.8	
1540942	17L00029	120	125	SR03	20	Dry	Rock	WHI17000269	4.41	0.015	1	5	2.5	36	0.05	2.6	5.5	554	1.74	0.25	9.4	7.6	
1540943	17L00029	125	130	SR03	20	Dry	Rock	WHI17000269	4.77	0.0025	1	6.7	3.6	48	0.05	2	6.2	545	2.11	0.25	3.3	11.4	
1540944	17L00029	130	135	SR03	20	Dry	Rock	WHI17000269	4.52	0.0025	1.1	5.8	4.8	41	0.05	2	5.5	549	2.04	0.25	0.7	9.4	
1540945	17L00029	135	140	SR03	20	Dry	Rock	WHI17000269	4.47	0.0025	0.9	4.1	4.8	46	0.05	1.8	5.3	608	1.97	0.25	2.2	9.4	
1540946	17L00029	140	145	SR03	20	Dry	Rock	WHI17000269	4.24	0.0025	1.3	5.7	3.5	54	0.05	2.2	4.9	531	1.85	0.25	1.2	8.8	
1540946	17L00029	140	145	SR03	20	Dry	Rock	WHI17000269		0.0025	1.2	4.8	3.4	46	0.05	2	5.6	570	1.94	0.25	1.4	8.5	
1540947	17L00029	145	150	SR03	20	Dry	Rock	WHI17000269	4.51	0.0025	2	3.6	2.5	36	0.05	2.3	5.2	513	1.85	0.25	2	8.9	
1540948	17L00029	150	155	SR03	20	Dry	Rock	WHI17000269	4.58	0.0025	2.4	6.4	3.5	42	0.05	2.2	6.3	654	2.07	0.25	2	9.2	
1540949	17L00029	155	160	SR03	20	Dry	Rock	WHI17000269	4.21	0.0025	1.1	2.3	2.8	38	0.05	2.2	5	507	1.85	0.25	1.5	9.9	
1540950	17L00029	160	165	SR03	20	Dry	Rock	WHI17000269	4.03	0.0025	1.2	4.9	2.5	34	0.05	2.2	4.8	563	1.97	0.25	2.5	8.8	
1540951	17L00029	165	170	SR03	20	Dry	Rock	WHI17000269	3.89	0.0025	1.4	8.2	2.3	47	0.05	2.5	6.1	552	2.06	0.8	2.1	7.5	
1540952	17L00029	170	175	SR03	20	Dry	Rock	WHI17000269	4.12	0.0025	1.4	5.8	1.9	37	0.05	2.1	5.2	554	2.12	0.25	1	7.7	
1540953	17L00029	175	180	SR03	20	Dry	Rock	WHI17000269	4.57	0.0025	1.5	3.9	2.6	41	0.05	2.5	5.8	589	2.15	0.25	1.3	10	
1540954	17L00029	180	185	SR03	20	Dry	Rock	WHI17000269	4.5	0.0025	1.5	10	2.7	41	0.05	2.4	6.1	550	2.25	0.8	2.1	8.5	
1540955	17L00029	185	190	SR03	20	Dry	Rock	WHI17000269	4	0.0025	1.2	7.6	1.9	46	0.05	2.8	7.4	555	2.26	0.25	0.25	8.3	
1540956	17L00029	190	195	SR03	20	Dry	Rock	WHI17000269	4.32	0.0025	2.2	4.8	2.7	35	0.05	2.3	6.2	674	2.03	0.25	0.9	9	
1540957	17L00029	195	200	SR03	20	Dry	Rock	WHI17000269	4.68	0.0025	1.6	4.7	2.2	36	0.05	2.4	4.2	356	1.65	0.25	1	9.5	
1540958	17L00029	200	205	SR03	20	Dry	Rock	WHI17000269	5.26	0.0025	1.3	2.9	2.3	29	0.05	1.6	4.4	391	1.74	0.25	0.25	12.3	
1540959	17L00029	205	210	SR03	20	Dry	Rock	WHI17000269	4.89	0.0025	1.2	5.2	2.6	32	0.05	2.8	5.4	492	1.96	0.25	0.25	8.6	
1540961	17L00029	210	215	SR03	20	Dry	Rock	WHI17000269	4.46	0.0025	1.2	5.6	1.4	48	0.05	2.2	5.9	558	2.19	0.25	0.25	9.8	
1540962	17L00029	215	220	SR03	20	Dry	Rock	WHI17000269	4.4	0.0025	1.2	3.4	1.6	25	0.05	1.8	4	366	1.51	0.25	1	9.4	
1540963	17L00029	220	225	SR03	20	Dry	Rock	WHI17000269	4.7	0.0025	1.6	4.9	3.3	34	0.05	1.7	4.4	456	1.65	0.25	0.5	9.9	
1540964	17L00029	225	230	SR03	20	Dry	Rock	WHI17000269	4.29	0.0025	1.5	5.1	2	36	0.05	2	4.4	423	1.78	0.25	0.25	12.8	

Appendix II

sample	sr_pi	cd_ppr	sbppm	bippm	vppm	capct	p_pct	la_cr	mg_pct	ba_pct	tipt	bppal	al_pct	na_pct	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga	seppm	teppr	
1540923	26	0.05	0.05	0.05	14	0.72	0.022	32	5	0.2	75	0.053	10	0.62	0.042	0.32	0.8	0.005	2.8	0.1	0.025	4	0.25	0.1
1540924	19	0.05	0.05	0.1	16	0.52	0.023	35	4	0.23	103	0.084	10	0.69	0.045	0.39	1	0.005	3.1	0.2	0.025	4	0.25	0.1
1540925	23	0.05	0.05	0.3	16	0.82	0.027	28	4	0.24	91	0.08	10	0.74	0.031	0.43	0.7	0.005	2.6	0.2	0.025	3	0.25	0.1
1540926	29	0.05	0.05	0.2	15	1.2	0.039	26	4	0.24	96	0.058	10	0.86	0.025	0.4	0.6	0.005	2	0.2	0.025	4	0.25	0.1
1540927	38	0.05	0.05	0.2	26	1.5	0.04	27	4	0.34	118	0.099	10	0.95	0.009	0.54	0.7	0.005	5.1	0.2	0.025	5	0.25	0.1
1540928	42	0.05	0.05	0.05	24	1.82	0.035	30	4	0.29	155	0.097	10	0.97	0.007	0.52	0.6	0.005	4.1	0.2	0.025	5	0.25	0.1
1540929	30	0.05	0.05	0.3	23	1.8	0.035	27	4	0.31	130	0.095	10	0.85	0.007	0.51	0.7	0.005	4.4	0.2	0.025	5	0.25	0.1
1540930	44	0.05	0.05	0.2	15	1.05	0.036	25	4	0.28	97	0.072	10	0.79	0.035	0.43	0.7	0.005	2.6	0.1	0.025	4	0.25	0.1
1540931	26	0.05	0.05	0.1	12	0.99	0.025	32	5	0.2	88	0.075	10	0.69	0.024	0.38	0.8	0.005	3.1	0.1	0.025	4	0.25	0.1
1540932	25	0.05	0.05	0.05	11	1.81	0.025	28	4	0.15	89	0.042	10	0.62	0.013	0.29	0.5	0.005	2.8	0.1	0.025	3	0.25	0.1
1540933																								
1540933	26	0.05	0.05	0.05	12	1.19	0.025	29	5	0.14	72	0.039	10	0.54	0.026	0.25	0.4	0.005	2.7	0.1	0.025	3	0.25	0.1
1540934	47	0.05	0.05	0.05	12	1.53	0.024	28	4	0.17	74	0.058	10	0.68	0.027	0.33	0.6	0.005	3.2	0.1	0.025	4	0.25	0.1
1540935	30	0.05	0.05	0.05	10	1.42	0.024	29	5	0.13	54	0.039	10	0.53	0.016	0.24	0.5	0.005	3.3	0.05	0.025	3	0.25	0.1
1540936	47	0.05	0.05	0.05	12	3.77	0.018	26	5	0.13	64	0.016	10	0.39	0.008	0.12	0.5	0.005	2.8	0.05	0.025	2	0.25	0.1
1540937	25	0.05	0.05	0.05	14	1.25	0.031	24	5	0.19	76	0.04	10	0.58	0.027	0.26	0.6	0.005	2	0.05	0.025	3	0.25	0.1
1540938	35	0.05	0.05	0.05	19	1.79	0.031	24	5	0.25	69	0.032	10	0.72	0.038	0.29	0.4	0.005	2.2	0.05	0.025	4	0.25	0.1
1540939	38	0.05	0.05	0.05	25	0.98	0.035	20	6	0.37	96	0.074	10	0.85	0.037	0.41	0.4	0.005	2.7	0.1	0.025	5	0.25	0.1
1540939	41	0.05	0.05	0.05	25	0.98	0.038	20	5	0.37	95	0.069	10	0.86	0.038	0.41	0.5	0.005	2.5	0.1	0.025	5	0.25	0.1
1540941	45	0.05	0.05	0.05	17	1.48	0.03	18	6	0.19	69	0.031	10	0.63	0.035	0.26	0.2	0.005	2.2	0.05	0.025	3	0.25	0.1
1540942	36	0.05	0.05	0.05	21	1.39	0.038	23	6	0.33	65	0.037	10	0.75	0.031	0.28	0.2	0.005	2.7	0.05	0.025	4	0.25	0.1
1540943	49	0.05	0.05	0.05	28	1.21	0.034	27	5	0.44	87	0.084	10	1.03	0.033	0.48	0.5	0.005	4.4	0.1	0.025	6	0.25	0.1
1540944	63	0.05	0.05	0.05	29	1.97	0.036	28	6	0.34	291	0.083	10	0.9	0.009	0.46	0.4	0.005	4.5	0.2	0.025	5	0.25	0.1
1540945	72	0.05	0.05	0.05	26	1.82	0.035	29	5	0.32	142	0.067	10	0.89	0.026	0.42	0.2	0.005	4.1	0.1	0.025	4	0.25	0.1
1540946	57	0.05	0.05	0.05	23	1.4	0.033	24	5	0.35	95	0.08	10	0.87	0.027	0.46	0.4	0.005	3.2	0.2	0.025	4	0.25	0.1
1540946	54	0.05	0.05	0.05	24	1.44	0.035	26	6	0.36	107	0.08	10	0.95	0.033	0.48	0.4	0.005	3.3	0.2	0.025	5	0.25	0.1
1540947	46	0.05	0.05	0.05	23	1.1	0.033	25	7	0.35	85	0.085	10	0.85	0.037	0.48	0.7	0.005	2.9	0.2	0.025	4	0.25	0.1
1540948	50	0.05	0.1	0.05	29	1.13	0.041	29	7	0.42	112	0.092	10	0.92	0.041	0.51	0.6	0.005	3.2	0.2	0.025	4	0.25	0.1
1540949	51	0.05	0.1	0.05	23	1	0.033	26	7	0.41	68	0.071	10	0.85	0.038	0.36	0.6	0.005	3.3	0.1	0.025	5	0.25	0.1
1540950	61	0.05	0.05	0.05	27	1.14	0.035	27	8	0.42	95	0.094	10	0.9	0.04	0.48	0.5	0.005	3.4	0.1	0.025	4	0.25	0.1
1540951	51	0.05	0.5	0.05	30	1.01	0.036	26	9	0.47	109	0.107	10	0.96	0.038	0.54	0.6	0.005	3.5	0.2	0.025	4	0.25	0.1
1540952	44	0.05	0.05	0.05	34	0.87	0.042	26	8	0.51	160	0.128	10	1.05	0.04	0.62	0.6	0.005	3.8	0.2	0.025	5	0.25	0.1
1540953	65	0.05	0.05	0.05	28	1.45	0.034	34	8	0.41	132	0.115	10	0.98	0.031	0.57	0.7	0.005	3.7	0.2	0.025	5	0.25	0.1
1540954	65	0.05	0.05	0.05	34	1.09	0.039	23	8	0.51	137	0.131	10	1.05	0.039	0.64	0.8	0.005	4.2	0.2	0.025	5	0.25	0.1
1540955	52	0.05	0.05	0.05	35	0.9	0.044	23	9	0.59	137	0.147	10	1.13	0.038	0.77	1.1	0.005	3.5	0.3	0.025	5	0.25	0.1
1540956	58	0.05	0.05	0.05	29	1.53	0.037	26	8	0.4	142	0.094	10	0.92	0.027	0.53	0.9	0.005	3.7	0.2	0.025	4	0.25	0.1
1540957	62	0.05	0.05	0.05	22	1.03	0.029	22	9	0.31	78	0.084	10	0.76	0.036	0.44	0.8	0.005	3.5	0.1	0.025	4	0.25	0.1
1540958	54	0.05	0.05	0.05	24	1.1	0.033	38	7	0.35	112	0.101	10	0.85	0.034	0.48	0.7	0.005	3.9	0.1	0.025	4	0.25	0.1
1540959	77	0.05	0.05	0.05	30	1.47	0.038	24	8	0.38	100	0.092	10	0.86	0.029	0.49	0.5	0.005	4.1	0.1	0.025	4	0.25	0.1
1540961	47	0.05	0.05	0.05	30	1.01	0.036	31	9	0.66	123	0.126	10	1.1	0.037	0.65	0.6	0.005	4.3	0.2	0.025	6	0.25	0.1
1540962	34	0.05	0.05	0.05	17	0.96	0.025	30	8	0.28	76	0.071	10	0.71	0.032	0.37	0.5	0.005	2.5	0.05	0.025	3	0.25	0.1
1540963	53	0.05	0.05	0.05	20	1.27	0.032	36	7	0.25	83	0.063	10	0.69	0.032	0.35	0.5	0.005	2.7	0.1	0.025	4	0.25	0.1
1540964	47	0.05	0.05	0.05	22	0.64	0.029	42	9	0.37	98	0.125	10	0.85	0.042	0.52	1.2	0.005	3	0.2	0.025	5	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pct	as_pp	au_pp	plth_pp
1540965	17L00029	230	235	SR03	20	Dry	Rock	WHI17000269	4.89	0.0025	1.2	12.1	2.4	34	0.05	2.6	5.1	456	1.87	0.25	0.6	8.5
1540966	17L00029	235	240	SR03	20	Dry	Rock	WHI17000269	4.33	0.0025	1.2	10	2.4	40	0.05	4	6.7	531	2	0.25	0.25	7.6
1540967	17L00029	240	245	SR03	20	Dry	Rock	WHI17000269	3.93	0.0025	1.5	3.4	4.2	35	0.05	1.8	4.9	531	1.93	0.25	0.25	11.1
1540968	17L00029	245	250	SR03	20	Dry	Rock	WHI17000269	4.19	0.0025	1.3	7.8	2.2	37	0.05	3.2	6.2	541	2.02	0.25	0.25	6.8
1540969	17L00029	250	255	SR03	20	Dry	Rock	WHI17000269	4.33	0.0025	1.8	3.2	2.6	35	0.05	1.5	4.7	562	1.87	0.25	0.25	9.4
1540970	17L00029	255	260	SR03	20	Dry	Rock	WHI17000269	4.22	0.0025	1.3	3.8	3.3	34	0.05	2	4.3	533	1.68	0.25	0.25	9.7
1540971	17L00029	260	265	SR03	20	Dry	Rock	WHI17000269	4.17	0.0025	1.3	3.4	3.7	30	0.05	1.6	3.8	519	1.61	0.25	0.25	9.7
1540972	17L00029	265	270	SR03	20	Dry	Rock	WHI17000269	4.01	0.0025	1.2	2.4	4.9	38	0.05	2.4	4.6	442	1.69	0.8	0.25	9.1
1540973	17L00029	270	275	SR03	20	Dry	Rock	WHI17000269	4.04	0.0025	1.3	3.3	4.5	38	0.05	1.5	4.5	570	1.92	0.25	0.25	9.2
1540974	17L00029	275	280	SR03	20	Dry	Rock	WHI17000269			1.4	3.3	2.8	33	0.05	1.7	3.7	475	1.64	0.25	0.25	8.4
1540974	17L00029	275	280	SR03	20	Dry	Rock	WHI17000269	3.7	0.0025	1.3	3.2	3.2	38	0.05	2	4.2	491	1.68	0.25	0.6	9.1
1540975	17L00029	280	285	SR03	20	Dry	Rock	WHI17000269	4.62	0.0025	1.4	5.5	2.2	36	0.05	2.2	5.2	502	1.76	0.25	0.25	9
1540976	17L00029	285	290	SR03	20	Dry	Rock	WHI17000269	3.68	0.0025	2.1	5.8	4.5	37	0.05	1.8	4.5	532	1.81	0.25	0.25	11.3
1540977	17L00029	290	295	SR03	20	Dry	Rock	WHI17000269	3.35	0.0025	0.9	9.6	3.2	41	0.05	2	8.1	868	2.67	0.25	0.25	7.5
1540978	17L00029	295	300	SR03	20	Dry	Rock	WHI17000269	3.51	0.0025	1	28.8	2.2	66	0.05	1.8	16.3	863	4.02	0.6	0.25	1.7
1540979	17L00029	300	305	SR03	20	Dry	Rock	WHI17000269	3.88	0.0025	1.2	33	2.5	78	0.05	2.2	18.9	857	4.26	0.6	0.25	1.7
1540981	17L00029	305	310	SR03	20	Dry	Rock	WHI17000269	4.75	0.0025	1.2	30.5	3.1	83	0.05	2.5	18.7	853	4.28	0.25	0.25	1.5
1540982	17L00029	310	315	SR03	20	Dry	Coarse Blar	WHI17000269	3.21	0.0025	1	33	2.4	77	0.05	1.9	17.4	827	4.59	1.1	0.25	1.8
1540983	17L00029	315	320	SR03	20	Dry	CDN-GS-5U	WHI17000269	3.73	0.0025	1.4	24.1	1.8	67	0.05	2.4	14.9	834	3.73	0.7	0.25	1.6
1540984	17L00029	320	325	SR03	20	Dry	Coarse Blar	WHI17000269	3.8	0.0025	1.2	21.4	1.7	64	0.05	2.3	15.3	983	3.9	0.25	0.25	4.6
1540985	17L00029	325	330	SR03	20	Dry	CDN-GS-P4F	WHI17000269	4.05	0.0025	1.4	14.9	1.6	56	0.05	2.5	8.4	611	2.63	0.25	0.25	8.3
1540920	17L00029			SR03			Rock	WHI17000269	0.11	0.0025	0.4	2.3	5	25	0.1	4.4	0.6	111	0.21	3.9	4.3	0.4
1540940	17L00029			SR03			Rock	WHI17000269	0.08	4.99	7.9	185	21.5	70	0.8	13.9	11.1	600	4.2	10.1	4680	2.8
1540960	17L00029			SR03			Rock	WHI17000269	0.13	0.007	0.8	56.6	4.4	33	0.1	3.6	1.2	171	0.5	2.8	1.1	2.3
1540980	17L00029			SR03			Rock	WHI17000269	0.08	0.503	6.2	283	15.6	52	0.6	110.2	14.9	411	2.73	162.1	389.3	3.4
1540986	17L00030	0	5	SR03	10	Dry	Rock	WHI17000269	3.15	0.0025	1.7	10.3	4.5	46	0.05	4.3	3.5	474	1.56	0.6	0.6	13.7
1540987	17L00030	5	10	SR03	20	Dry	Rock	WHI17000269	5.01	0.0025	0.9	6.6	2.2	29	0.05	2.9	2.6	401	1.32	0.25	0.25	9.3
1540988	17L00030	10	15	SR03	24	Dry	Rock	WHI17000269	5.43	0.0025	0.7	3	1.5	37	0.05	2.5	2.8	422	1.37	0.25	0.7	10.8
1540989	17L00030	15	20	SR03	16	Dry	Rock	WHI17000269	3.53	0.0025	1.2	4.4	2.6	43	0.05	3.1	2.5	405	1.32	0.25	0.25	12.1
1540990	17L00030	20	25	SR03	20	Dry	Rock	WHI17000269	3.46	0.0025	1.2	7.9	2.8	37	0.05	2.2	2.5	419	1.35	0.25	0.25	14.3
1540991	17L00030	25	30	SR03	20	Dry	Rock	WHI17000269	3.52	0.0025	1	3.2	4.5	33	0.05	2.1	2.7	513	1.38	0.25	0.25	12.4
1540992	17L00030	30	35	SR03	20	Dry	Rock	WHI17000269			1.8	3.5	3.4	31	0.05	1.5	2.6	388	1.31	0.25	0.25	13.6
1540992	17L00030	30	35	SR03	20	Dry	Rock	WHI17000269	3.25	0.0025	1.6	3.1	3.2	27	0.05	1.5	2.5	418	1.3	0.25	0.25	12
1540993	17L00030	35	40	SR03	20	Dry	Rock	WHI17000269	3.53	0.0025	2.1	5.7	3.1	28	0.05	2.3	2.8	518	1.47	0.25	0.25	12
1540994	17L00030	40	45	SR03	8	Dry	Rock	WHI17000269	2.01	0.0025	1.5	7.2	2.5	36	0.05	2.3	4.3	481	1.57	0.25	0.25	14.5
1540995	17L00030	45	50	SR03	10	Dry	Rock	WHI17000269	2.11	0.0025	1.4	4.8	2.4	28	0.05	1.9	3.2	476	1.54	0.25	0.25	11.1
1540996	17L00030	50	55	SR03	10	Dry	Rock	WHI17000268	2.41	0.0025	1	7.4	3.4	31	0.05	1.4	2.2	381	1.34	0.25	0.6	10
1540997	17L00030	55	60	SR03	12	Dry	Rock	WHI17000268	2.64	0.0025	1.7	11.3	2.5	41	0.05	1.7	3.8	527	1.72	0.25	0.25	9.8
1540998	17L00030	60	65	SR03	10	Dry	Rock	WHI17000268	2.63	0.0025	0.9	10.6	2.7	36	0.05	1.4	3.6	487	1.72	0.25	0.25	9.5
1540999	17L00030	65	70	SR03	10	Dry	Rock	WHI17000268	2.5	0.0025	1.2	10.2	2.7	39	0.05	1.5	4.2	419	1.77	0.25	0.7	9.6
1541001	17L00030	70	75	SR03	12	Dry	Rock	WHI17000268	3.07	0.008	0.8	10.5	3.3	40	0.05	1.3	4.4	521	1.85	0.25	1.1	7.4
1541002	17L00030	75	80	SR03	17	Dry	Rock	WHI17000268	2.82	0.0025	1.2	6.9	3.4	42	0.05	1.2	4.7	535	1.87	0.25	0.25	10.1
1541003	17L00030	80	85	SR03	19	Dry	Rock	WHI17000268	2.86	0.0025	1.2	7.8	3.3	38	0.05	1.4	4.3	461	1.73	0.25	1.1	10.3

Appendix II

sample	sr_pi	cd_ppr	sbppm	bippm	vppm	capct	p_pct	la_cr	mg_pc	ba_pt	tipct	bppi	al_pc	na_pc	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga	seppm	teppr	
1540965	49	0.05	0.05	0.05	31	0.77	0.038	23	11	0.55	106	0.092	10	0.96	0.04	0.45	0.7	0.005	2.8	0.1	0.025	4	0.25	0.1
1540966	75	0.05	0.05	0.05	30	1.17	0.037	23	11	0.52	89	0.095	10	0.95	0.034	0.46	0.8	0.005	3.3	0.1	0.025	5	0.25	0.1
1540967	104	0.05	0.05	0.05	23	1.76	0.031	30	8	0.33	50	0.043	10	0.74	0.039	0.26	0.4	0.005	3.8	0.05	0.025	4	0.25	0.1
1540968	53	0.05	0.05	0.05	31	1.06	0.038	17	10	0.5	82	0.085	10	0.94	0.035	0.46	0.7	0.005	3.5	0.1	0.025	5	0.25	0.1
1540969	73	0.05	0.05	0.05	27	1.17	0.029	28	9	0.38	117	0.115	10	0.83	0.04	0.48	0.9	0.005	4	0.2	0.025	5	0.25	0.1
1540970	67	0.05	0.05	0.05	23	1.34	0.03	24	7	0.24	47	0.056	10	0.59	0.034	0.3	0.6	0.005	3.4	0.05	0.025	4	0.25	0.1
1540971	101	0.05	0.05	0.05	15	1.99	0.032	29	8	0.2	74	0.026	10	0.53	0.026	0.22	0.2	0.005	3.2	0.05	0.025	3	0.25	0.1
1540972	84	0.05	0.05	0.05	21	1.67	0.031	26	8	0.21	92	0.04	10	0.58	0.034	0.25	0.3	0.005	3.4	0.05	0.025	3	0.25	0.1
1540973	93	0.05	0.05	0.05	24	1.76	0.029	27	8	0.45	188	0.085	10	0.74	0.038	0.4	0.4	0.005	3.8	0.1	0.025	4	0.25	0.1
1540974	53	0.05	0.05	0.05	21	1.23	0.03	24	9	0.38	85	0.084	10	0.75	0.031	0.41	0.6	0.005	3	0.1	0.025	4	0.25	0.1
1540974	59	0.05	0.05	0.05	22	1.26	0.027	24	7	0.39	85	0.08	10	0.77	0.033	0.42	0.7	0.005	3.2	0.1	0.025	5	0.25	0.1
1540975	47	0.05	0.05	0.05	21	1.08	0.032	25	8	0.34	79	0.066	10	0.77	0.037	0.37	0.6	0.005	3.1	0.1	0.025	4	0.25	0.1
1540976	103	0.05	0.05	0.05	22	2.11	0.033	29	8	0.24	79	0.051	10	0.65	0.028	0.28	0.4	0.005	4.5	0.05	0.025	4	0.25	0.1
1540977	179	0.05	0.05	0.05	52	3.17	0.072	24	7	0.65	219	0.059	10	1.16	0.029	0.41	0.2	0.005	5.3	0.05	0.025	5	0.25	0.1
1540978	526	0.05	0.05	0.05	116	2.08	0.167	5	6	1.66	879	0.203	10	2.09	0.056	0.77	0.1	0.005	8.1	0.1	0.23	7	0.25	0.1
1540979	145	0.05	0.05	0.05	137	1.57	0.182	6	8	2.02	948	0.247	10	2.25	0.072	0.84	0.2	0.005	7.6	0.2	0.22	8	0.25	0.1
1540981	136	0.05	0.05	0.05	138	1.35	0.214	5	8	2.22	1163	0.237	10	2.21	0.077	0.74	0.2	0.005	7.8	0.2	0.22	8	0.25	0.1
1540982	121	0.05	0.05	0.05	155	1.2	0.185	5	6	2.5	821	0.276	10	2.35	0.056	0.86	0.2	0.005	10	0.2	0.22	8	0.25	0.1
1540983	145	0.05	0.05	0.05	122	1.33	0.165	5	7	1.81	1177	0.229	10	1.98	0.058	0.91	0.5	0.005	7.5	0.1	0.13	6	0.25	0.1
1540984	119	0.05	0.05	0.05	115	1.58	0.156	16	9	1.65	1378	0.199	10	2.11	0.036	1.16	0.5	0.005	5.8	0.2	0.13	7	0.25	0.1
1540985	60	0.05	0.05	0.05	57	0.73	0.088	25	10	0.84	531	0.157	10	1.36	0.042	0.84	0.9	0.005	3.4	0.2	0.06	6	0.25	0.1
1540920	309	0.2	1.5	0.05	21	18.92	0.013	2	3	11.64	17	0.003	10	0.12	0.002	0.02	0.2	0.005	0.4	0.05	0.025	0.5	0.25	0.1
1540940	64	0.1	3	0.4	105	0.95	0.06	8	19	0.86	123	0.148	10	1.78	0.188	0.23	4.5	0.15	2.8	0.05	0.025	5	0.25	0.1
1540960	284	0.3	1.7	0.05	22	16.05	0.019	6	5	9.44	34	0.022	10	0.29	0.007	0.12	0.3	0.01	1.4	0.05	0.025	1	0.25	0.1
1540980	81	0.3	1.3	0.1	65	1.72	0.029	8	98	1.37	109	0.1	10	2.59	0.297	0.21	1	0.03	2.8	0.05	0.1	6	0.25	0.1
1540986	7	0.05	0.1	0.3	15	0.12	0.026	37	5	0.23	103	0.065	10	0.71	0.032	0.34	0.6	0.01	3.4	0.1	0.025	4	0.25	0.1
1540987	8	0.05	0.05	0.1	11	0.57	0.02	28	4	0.15	58	0.045	10	0.49	0.033	0.29	0.9	0.005	2.1	0.1	0.025	3	0.25	0.1
1540988	12	0.05	0.05	0.05	11	0.65	0.021	27	4	0.2	71	0.057	10	0.57	0.04	0.35	1	0.005	2.8	0.1	0.025	4	0.25	0.1
1540989	21	0.05	0.05	0.1	11	0.68	0.023	29	6	0.17	75	0.059	10	0.54	0.038	0.33	0.9	0.005	2.8	0.1	0.025	4	0.25	0.1
1540990	15	0.05	0.05	0.05	10	0.36	0.024	31	4	0.18	90	0.06	10	0.52	0.039	0.3	0.7	0.005	2.8	0.1	0.025	3	0.25	0.1
1540991	31	0.05	0.05	0.05	10	1.57	0.024	31	5	0.14	118	0.047	10	0.51	0.026	0.25	0.5	0.005	3.2	0.1	0.025	3	0.25	0.1
1540992	36	0.05	0.05	0.05	11	1.22	0.025	29	3	0.15	72	0.056	10	0.55	0.028	0.31	0.7	0.005	3.5	0.2	0.025	4	0.25	0.1
1540992	33	0.05	0.05	0.05	12	1.21	0.023	30	4	0.17	69	0.052	10	0.55	0.028	0.31	0.5	0.005	3	0.1	0.025	3	0.25	0.1
1540993	37	0.05	0.05	0.05	12	1.09	0.025	31	5	0.19	117	0.059	10	0.58	0.033	0.32	0.5	0.01	3	0.1	0.025	3	0.25	0.1
1540994	24	0.05	0.05	0.05	14	0.5	0.025	28	5	0.22	114	0.094	10	0.68	0.043	0.42	1.1	0.005	3.7	0.2	0.025	5	0.25	0.1
1540995	27	0.05	0.05	0.05	14	0.79	0.027	30	5	0.21	87	0.065	10	0.59	0.04	0.34	0.7	0.005	2.7	0.1	0.025	3	0.25	0.1
1540996	31	0.05	0.05	0.05	11	0.89	0.025	27	4	0.21	74	0.05	10	0.56	0.041	0.31	0.8	0.005	2.6	0.1	0.025	3	0.25	0.1
1540997	39	0.05	0.05	0.05	22	1.26	0.036	26	4	0.41	186	0.08	10	0.82	0.035	0.46	0.6	0.005	3.6	0.1	0.025	4	0.25	0.1
1540998	32	0.05	0.05	0.05	24	1.13	0.028	27	3	0.34	144	0.09	10	0.81	0.036	0.48	0.6	0.005	3.7	0.2	0.025	4	0.25	0.1
1540999	38	0.05	0.05	0.05	27	1	0.032	27	4	0.3	109	0.083	10	0.79	0.036	0.46	0.4	0.005	3.6	0.2	0.025	4	0.25	0.1
1541001	52	0.05	0.05	0.05	27	1.55	0.035	21	5	0.32	137	0.074	10	0.76	0.036	0.44	0.2	0.005	3.9	0.1	0.025	3	0.25	0.1
1541002	69	0.05	0.05	0.05	25	1.86	0.031	26	4	0.53	253	0.088	10	0.85	0.022	0.48	0.3	0.005	3.9	0.2	0.025	4	0.25	0.1
1541003	40	0.05	0.05	0.05	25	1.56	0.029	24	3	0.31	107	0.089	10	0.87	0.029	0.5	0.4	0.005	4	0.2	0.025	4	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pp	as_pp	au_pp	th_pp
1541004	17L00030	85	90	SR03	17	Dry	Rock	WHI17000268	3.44	0.0025	5.2	15.5	3.2	61	0.05	1.4	5.8	619	2.32	0.25	0.25	8.9
1541005	17L00030	90	95	SR03	13	Dry	Rock	WHI17000268	2.73	0.0025	1.5	10.3	2.2	48	0.05	1.6	4.1	478	1.86	0.25	1.1	9.9
1541006	17L00030	95	100	SR03	7	Dry	Coarse Blar	WHI17000268	1.93	0.0025	1.5	14.4	2.1	44	0.05	1.9	4.2	498	1.95	0.25	0.25	11.3
1541007	17L00030	100	105	SR03	15	Dry	Rock	WHI17000268	3.08	0.0025	0.9	6.4	2.7	46	0.05	1.5	4.3	516	1.91	0.25	0.25	9.6
1541008	17L00030	105	110	SR03	19	Dry	Rock	WHI17000268	3.5	0.0025	1	8.6	2.6	47	0.05	3.2	4.6	487	1.96	0.25	0.25	8.6
1541009	17L00030	110	115	SR03	20	Dry	Rock	WHI17000268	3.54	0.0025	0.8	8.5	3.9	44	0.05	1.4	4.8	537	1.97	0.25	0.25	10.8
1541010	17L00030	115	120	SR03	19	Dry	Rock	WHI17000268	3.65	0.006	1.2	7.2	2.9	48	0.05	1.5	4.7	574	2.07	0.25	0.25	9.1
1541000	17L00030			SR03			Rock	WHI17000268	0.15	0.0025	0.3	6.4	4.6	22	0.1	3.2	0.6	108	0.17	2	2.8	0.3
1541011	17L00031	0	5	SR03	13	Dry	Rock	WHI17000268	2.72	0.008	1	8.8	5.4	36	0.05	3.8	2.6	407	1.32	0.25	5.6	10.8
1541012	17L00031	5	10	SR03	20	Dry	Rock	WHI17000268	3.75	0.0025	1.5	4.5	4.6	33	0.05	1.8	2.5	476	1.39	0.25	1.5	11.6
1541013	17L00031	10	15	SR03	27	Dry	Rock	WHI17000268	5.48	0.0025	1.4	4.2	4.7	39	0.05	1.2	2.7	619	1.5	0.25	1.6	11.4
1541014	17L00031	15	20	SR03	34	Dry	Rock	WHI17000268	5.88	0.0025	1.3	5.8	3.3	60	0.05	1.6	4.2	462	1.75	0.25	2.1	9.4
1541015	17L00031	20	25	SR03	19	Dry	Rock	WHI17000268	3.12	0.0025	1.4	5.4	5.8	54	0.05	1.7	5.3	626	2.28	0.25	1.7	8.7
1541016	17L00031	25	30	SR03	20	Dry	Rock	WHI17000268	3.23	0.0025	1	3.4	4.2	42	0.05	1.3	4.6	579	1.98	0.25	1.8	9.8
1541017	17L00031	30	35	SR03	20	Dry	REP	WHI17000268	3.37	0.0025	0.3	3.2	2.3	33	0.05	0.9	3.7	398	1.64	0.25	0.25	10.4
1541018	17L00031	35	40	SR03	20	Dry	Rock	WHI17000268	3.7	0.0025	14.8	6.5	6.5	36	0.05	0.9	3.7	577	1.75	0.25	0.25	9.7
1541019	17L00031	40	45	SR03	20	Dry	DUP	WHI17000268	3.51	0.0025	6.9	12.6	4.5	33	0.05	1	4.2	393	1.5	0.25	0.25	10.1
1541021	17L00031	45	50	SR03	20	Dry	Rock	WHI17000268	3.63	0.006	0.9	6.5	3.8	42	0.05	1.3	5	515	1.85	0.25	2.3	11
1541022	17L00031	50	55	SR03	20	Dry	Rock	WHI17000268	3.74	0.0025	1.4	10.3	4.5	39	0.05	1.2	4.5	568	1.95	0.25	0.9	9.6
1541023	17L00031	55	60	SR03	20	Dry	REP	WHI17000268		0.0025												
1541023	17L00031	55	60	SR03	20	Dry	Rock	WHI17000268		0.0025	0.9	6.6	5.5	33	0.05	1.5	4.4	527	1.81	0.25	1.6	8.4
1541023	17L00031	55	60	SR03	20	Dry	Rock	WHI17000268	3.52	0.0025	0.9	7.4	5.6	37	0.05	1.6	4.4	540	1.82	0.25	2.8	8.1
1541024	17L00031	60	65	SR03	20	Dry	Rock	WHI17000268	3.24	0.0025	1.3	6.7	4.4	46	0.05	1.2	4.5	603	2	0.25	1.2	9.1
1541025	17L00031	65	70	SR03	20	Dry	Rock	WHI17000268	2.72	0.0025	0.9	3.7	3.8	39	0.05	1	3.8	489	1.7	0.25	0.8	10
1541026	17L00031	70	75	SR03	20	Dry	Rock	WHI17000268			0.8	8.2	4.9	43	0.05	1.2	3.8	616	1.78	0.25	0.5	8.4
1541026	17L00031	70	75	SR03	20	Dry	Rock	WHI17000268	3.1	0.0025	0.9	8.7	4.8	37	0.05	1.1	3.6	623	1.75	0.25	0.9	8.2
1541027	17L00031	75	80	SR03	20	Dry	Rock	WHI17000268	3.43	0.0025	1.1	5.9	4.8	36	0.05	1.1	4.5	568	1.75	0.25	1.3	8.7
1541028	17L00031	80	85	SR03	20	Dry	Rock	WHI17000268	3.71	0.0025	1.6	10.7	5.5	41	0.05	1.3	4.4	497	1.78	0.25	0.25	9.7
1541029	17L00031	85	90	SR03	20	Dry	Rock	WHI17000268	3.84	0.0025	1.1	7.9	4.1	42	0.05	2.2	5.3	518	2.04	0.25	3.2	10.3
1541030	17L00031	90	95	SR03	20	Dry	Rock	WHI17000268	3.28	0.0025	0.7	2.9	2.7	35	0.05	1	3.9	531	1.73	0.25	1.5	9.7
1541031	17L00031	95	100	SR03	20	Dry	REP	WHI17000268	3.62	0.0025	0.9	11.5	3.3	42	0.05	2.3	6	562	2.09	0.25	0.25	9.3
1541032	17L00031	100	105	SR03	20	Dry	Rock	WHI17000268	3.83	0.0025	0.6	5.9	3.2	41	0.05	1.3	4.3	552	1.8	0.25	0.25	9.7
1541033	17L00031	105	110	SR03	20	Dry	Rock	WHI17000268	3.87	0.0025	0.5	10.3	3	53	0.05	1.4	3.8	405	1.72	0.25	0.6	9.2
1541034	17L00031	110	115	SR03	20	Dry	Rock	WHI17000268	3.76	0.0025	0.7	6	2.5	39	0.05	1.1	3.7	463	1.65	0.25	0.5	7.8
1541035	17L00031	115	120	SR03	20	Dry	Rock	WHI17000268	4.09	0.0025	0.9	8.9	1.9	47	0.05	2.6	5.4	531	2.11	0.25	0.25	9.3
1541036	17L00031	120	125	SR03	20	Dry	Rock	WHI17000268		0.0025												
1541036	17L00031	120	125	SR03	20	Dry	Rock	WHI17000268	3.29	0.0025	0.9	4.6	1.5	39	0.05	1.1	4.1	482	1.84	0.25	1.1	9.7
1541037	17L00031	125	130	SR03	20	Dry	Rock	WHI17000268	3.48	0.0025	0.6	4.1	1.6	36	0.05	1.2	4.2	469	1.82	0.25	0.25	9.7
1541038	17L00031	130	135	SR03	20	Dry	Rock	WHI17000268	3.88	0.0025	0.8	4.8	1.7	35	0.05	1.3	3.7	443	1.68	0.25	0.25	10.1
1541039	17L00031	135	140	SR03	20	Dry	Rock	WHI17000268	3.27	0.0025	0.8	17.2	3.1	39	0.05	2.6	7	623	2.24	0.25	0.25	9.3
1541041	17L00031	140	145	SR03	20	Dry	Rock	WHI17000268	3.47	0.0025	0.7	5.2	3.1	35	0.05	1	3.9	488	1.78	0.25	0.25	8.8
1541042	17L00031	145	150	SR03	20	Dry	Rock	WHI17000268	3.65	0.0025	0.7	7	3.6	43	0.05	2.6	5.3	592	2.07	0.25	0.25	10
1541043	17L00031	150	155	SR03	20	Dry	Rock	WHI17000268	3.35	0.0025	0.7	3.5	3.1	30	0.05	1.4	3.8	478	1.67	0.25	0.25	10

Appendix II

sample	sr_pi	cd_ppr	sbppm	bippm	vppm	capct	p_pct	la_cr	mg_pc	ba_pi	tipct	bppal	al_pc	na_pi	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga_pi	seppm	teppr	
1541004	26	0.05	0.05	0.05	35	0.65	0.042	23	4	0.54	199	0.146	10	1.14	0.041	0.78	0.5	0.005	5	0.2	0.025	5	0.25	0.1
1541005	28	0.2	0.05	0.1	34	0.54	0.028	25	4	0.38	151	0.113	10	1.03	0.066	0.63	0.8	0.005	3.6	0.2	0.025	5	0.25	0.1
1541006	26	0.05	0.05	0.05	28	0.59	0.033	24	6	0.44	198	0.114	10	0.96	0.063	0.62	1.2	0.005	3.5	0.2	0.025	5	0.25	0.1
1541007	25	0.05	0.05	0.05	27	0.8	0.03	24	5	0.43	162	0.091	10	0.89	0.059	0.52	0.6	0.005	4.2	0.05	0.025	4	0.25	0.1
1541008	32	0.05	0.05	0.05	28	0.71	0.031	22	5	0.42	113	0.09	10	0.93	0.054	0.53	0.5	0.005	3.9	0.1	0.025	4	0.25	0.1
1541009	46	0.05	0.05	0.05	30	0.97	0.035	28	4	0.42	139	0.111	10	0.99	0.053	0.6	0.5	0.005	4.5	0.2	0.025	4	0.25	0.1
1541010	34	0.05	0.05	0.05	30	0.88	0.034	24	5	0.43	136	0.118	10	0.95	0.057	0.62	0.5	0.005	4.7	0.1	0.025	4	0.25	0.1
1541000	271	0.3	1.4	0.05	16	18.98	0.012	2	3	11.06	16	0.002	10	0.1	0.002	0.02	0.2	0.01	0.4	0.05	0.025	0.5	0.25	0.1
1541011	13	0.05	0.05	0.05	12	0.41	0.024	30	4	0.16	89	0.04	10	0.78	0.027	0.27	0.7	0.005	3.2	0.05	0.025	3	0.25	0.1
1541012	21	0.05	0.05	0.05	11	0.68	0.024	29	3	0.15	89	0.044	10	0.65	0.023	0.28	0.6	0.005	3.2	0.05	0.025	3	0.25	0.1
1541013	38	0.05	0.05	0.05	12	1.16	0.022	30	2	0.18	97	0.038	10	0.75	0.019	0.29	0.6	0.005	3.1	0.1	0.025	3	0.25	0.1
1541014	29	0.05	0.05	0.05	18	0.95	0.032	25	2	0.19	105	0.033	10	0.83	0.02	0.28	0.3	0.005	3.7	0.05	0.025	3	0.25	0.1
1541015	36	0.05	0.05	0.05	24	3.07	0.033	25	4	0.24	128	0.052	10	0.83	0.01	0.36	0.2	0.005	4.5	0.05	0.025	4	0.25	0.1
1541016	42	0.05	0.05	0.05	27	2.19	0.032	25	2	0.34	128	0.082	10	0.93	0.02	0.47	0.3	0.005	4.8	0.1	0.025	4	0.25	0.1
1541017	22	0.05	0.05	0.05	24	0.86	0.032	24	2	0.36	95	0.099	10	0.96	0.023	0.55	0.5	0.005	3.6	0.2	0.025	4	0.25	0.1
1541018	61	0.05	0.05	0.1	20	3	0.028	26	2	0.18	240	0.044	10	0.57	0.016	0.28	0.4	0.005	4	0.1	0.025	3	0.25	0.1
1541019	36	0.05	0.05	0.4	23	1.91	0.026	24	2	0.17	175	0.034	10	0.63	0.015	0.27	0.3	0.005	3.4	0.05	0.025	3	0.25	0.1
1541021	53	0.05	0.05	0.05	26	1.49	0.036	28	3	0.29	176	0.072	10	0.91	0.025	0.42	0.3	0.005	4.1	0.1	0.025	4	0.25	0.1
1541022	43	0.05	0.05	0.05	26	2.08	0.032	25	2	0.27	127	0.071	10	0.79	0.022	0.4	0.4	0.005	4.2	0.1	0.025	3	0.25	0.1
1541023																								
1541023	76	0.05	0.05	0.05	28	2.62	0.042	23	4	0.23	113	0.048	10	0.74	0.016	0.34	0.4	0.005	4.9	0.1	0.025	3	0.25	0.1
1541023	76	0.05	0.05	0.05	28	2.61	0.04	23	4	0.23	114	0.049	10	0.74	0.018	0.34	0.3	0.005	5.1	0.05	0.025	3	0.25	0.1
1541024	64	0.05	0.05	0.05	25	2.8	0.031	23	2	0.29	101	0.048	10	0.69	0.02	0.34	0.3	0.005	3.9	0.05	0.025	3	0.25	0.1
1541025	36	0.05	0.05	0.05	24	1.15	0.031	25	3	0.31	104	0.084	10	0.82	0.021	0.47	0.5	0.005	4.1	0.1	0.025	4	0.25	0.1
1541026	92	0.05	0.05	0.05	23	2.48	0.03	25	2	0.25	107	0.057	10	0.79	0.018	0.36	0.5	0.005	3.7	0.1	0.025	4	0.25	0.1
1541026	90	0.05	0.05	0.05	22	2.41	0.028	25	2	0.25	101	0.056	10	0.76	0.017	0.36	0.4	0.005	3.9	0.1	0.025	3	0.25	0.1
1541027	101	0.05	0.05	0.05	25	2.59	0.038	25	2	0.2	213	0.034	10	0.63	0.022	0.27	0.3	0.005	4.1	0.05	0.025	3	0.25	0.1
1541028	103	0.05	0.05	0.05	16	3.13	0.031	29	3	0.17	163	0.02	10	0.51	0.027	0.25	0.2	0.005	2.8	0.05	0.025	2	0.25	0.1
1541029	74	0.05	0.2	0.05	32	1.62	0.04	27	4	0.45	98	0.076	10	0.98	0.028	0.45	0.3	0.005	4.2	0.1	0.025	5	0.25	0.1
1541030	66	0.05	0.1	0.05	23	1.49	0.028	26	3	0.36	97	0.089	10	0.87	0.033	0.48	0.4	0.005	3.6	0.1	0.025	4	0.25	0.1
1541031	70	0.05	0.05	0.05	38	1.48	0.04	25	7	0.56	145	0.11	10	1.06	0.029	0.63	0.6	0.005	5	0.2	0.025	5	0.25	0.1
1541032	69	0.05	0.05	0.05	27	1.52	0.034	26	3	0.42	112	0.101	10	0.94	0.033	0.54	0.5	0.005	3.4	0.2	0.025	4	0.25	0.1
1541033	56	0.05	0.1	0.05	34	1	0.045	25	4	0.45	117	0.085	10	0.96	0.032	0.52	0.6	0.005	2.7	0.2	0.025	5	0.25	0.1
1541034	70	0.05	0.05	0.05	22	1.29	0.027	23	4	0.36	140	0.078	10	0.79	0.041	0.42	0.7	0.005	3	0.2	0.025	4	0.25	0.1
1541035	62	0.05	0.05	0.05	34	1.04	0.039	28	5	0.55	131	0.12	10	1.06	0.039	0.67	0.7	0.005	4.1	0.2	0.025	5	0.25	0.1
1541036																								
1541036	48	0.05	0.05	0.05	27	0.79	0.031	26	4	0.41	145	0.123	10	0.93	0.038	0.62	0.8	0.005	3.3	0.2	0.025	4	0.25	0.1
1541037	44	0.05	0.05	0.05	27	0.75	0.031	27	4	0.41	130	0.114	10	0.9	0.04	0.62	0.7	0.005	3.3	0.2	0.025	4	0.25	0.1
1541038	48	0.05	0.05	0.05	26	0.77	0.03	26	4	0.37	107	0.102	10	0.84	0.041	0.55	0.8	0.005	3.1	0.2	0.025	4	0.6	0.1
1541039	129	0.05	0.05	0.05	46	2.12	0.041	28	10	0.66	133	0.098	10	1.14	0.027	0.57	0.5	0.005	4.8	0.2	0.025	5	0.25	0.1
1541041	89	0.05	0.05	0.05	26	1.8	0.031	26	5	0.37	51	0.046	10	0.76	0.026	0.26	0.4	0.005	3.4	0.05	0.025	4	0.25	0.1
1541042	113	0.05	0.05	0.05	32	2.03	0.034	30	9	0.54	86	0.083	10	1.03	0.026	0.42	0.5	0.005	4	0.2	0.025	6	0.25	0.1
1541043	127	0.05	0.05	0.05	23	2.17	0.027	32	5	0.36	1202	0.077	10	0.86	0.022	0.39	0.6	0.005	3.7	0.1	0.025	5	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pc	as_pp	au_ppl	th_pp
1541044	17L00031	155	160	SR03	20	Dry	Rock	WHI17000268	3.98	0.0025	0.9	16.3	5	48	0.05	3.7	7.5	633	2.56	0.25	1.5	8.3
1541045	17L00031	160	165	SR03	20	Dry	Rock	WHI17000268	3.83	0.0025	0.6	11.4	5.3	54	0.05	9.9	10.9	786	2.71	0.25	0.25	5.6
1541046	17L00031	165	170	SR03	20	Dry	Rock	WHI17000268	4.18	0.0025	0.7	15.9	4.3	46	0.05	2.2	5.3	594	2.03	0.25	0.9	9.6
1541047	17L00031	170	175	SR03	20	Dry	Rock	WHI17000268	3.58	0.0025	1.1	10.4	3.5	40	0.05	1.2	4.3	472	1.78	0.25	0.25	9.6
1541048	17L00031	175	180	SR03	20	Dry	Rock	WHI17000268	3.72	0.0025	0.7	14.9	3	37	0.05	1	4.1	514	1.84	0.25	0.25	11.1
1541049	17L00031	180	185	SR03	11	Dry	Rock	WHI17000268	2.32	0.0025	1	11.4	3.3	44	0.05	1.5	4.7	591	2.06	0.25	0.8	11
1541050	17L00031	185	190	SR03	20	Dry	Rock	WHI17000268	3.97	0.0025	0.7	11.3	3.4	47	0.05	1.5	4.7	524	1.85	0.25	0.25	8.8
1541051	17L00031	190	195	SR03	20	Dry	Rock	WHI17000268	3.98	0.0025	0.9	5.9	4.2	35	0.05	1.3	3.9	536	1.7	0.25	0.25	10.7
1541052	17L00031	195	200	SR03	20	Dry	Rock	WHI17000268	3.31	0.0025	0.7	8.3	3.9	41	0.05	0.9	4	499	1.67	0.25	0.7	9.7
1541053	17L00031	200	205	SR03	20	Dry	DUP	WHI17000268	3.57	0.0025	0.7	9.5	4.6	38	0.05	1	4	522	1.7	0.25	0.25	9.2
1541054	17L00031	205	210	SR03	20	Dry	Rock	WHI17000268	3.78	0.0025	0.7	7	3.3	44	0.05	2.1	5.8	575	2.21	0.25	0.25	8.8
1541055	17L00031	210	215	SR03	20	Dry	Rock	WHI17000268	4.44	0.0025	0.9	6.3	3.2	36	0.05	1.5	4.5	504	1.86	0.25	0.25	8.7
1541056	17L00031	215	220	SR03	20	Dry	REP	WHI17000268	3.09	0.0025	1	13.3	3.7	49	0.05	2.5	6.8	611	2.46	0.25	0.9	8.6
1541057	17L00031	220	225	SR03	20	Dry	Rock	WHI17000268	4.06	0.0025	0.9	10.1	4.6	47	0.05	2.9	7.8	765	2.45	0.25	0.25	7.8
1541057	17L00031	220	225	SR03	20	Dry	Rock	WHI17000268		0.0025	0.9	12.5	4.7	50	0.05	3.1	8.1	761	2.42	0.25	0.25	8.6
1541058	17L00031	225	230	SR03	20	Dry	Rock	WHI17000268	3.29	0.0025	0.8	13.4	3.9	47	0.05	2	5.6	591	2.1	0.25	0.25	9
1541059	17L00031	230	235	SR03	20	Dry	Rock	WHI17000268	3.29	0.0025	1	13.7	4	55	0.05	3.4	8.6	714	2.57	0.25	0.25	8
1541061	17L00031	235	240	SR03	20	Dry	Rock	WHI17000268			1.1	20.4	3.7	52	0.05	1.9	6.2	570	2.12	0.25	0.25	9.5
1541061	17L00031	235	240	SR03	20	Dry	Rock	WHI17000268	2.81	0.005	1.1	20.4	3.7	51	0.05	1.9	5.8	576	2.06	0.25	0.25	9.5
1541062	17L00031	240	245	SR03	20	Dry	Rock	WHI17000268	3.7	0.0025	1	10.7	3.2	41	0.05	1.2	5	500	1.8	0.5	0.25	9.4
1541063	17L00031	245	250	SR03	20	Dry	Rock	WHI17000268	3.12	0.0025	1.3	6.2	2.7	40	0.05	1.4	3.6	410	1.6	0.25	0.9	11.8
1541064	17L00031	250	255	SR03	15	Dry	Rock	WHI17000268	2.67	0.0025	1.1	5.8	7	23	0.05	1	2.2	319	1.05	0.25	1.5	15.8
1541065	17L00031	255	260	SR03	23	Dry	Rock	WHI17000268	4.86	0.0025	1	16.1	3.6	26	0.05	1	2.5	376	1.2	0.25	0.25	15.3
1541066	17L00031	260	265	SR03	20	Dry	Rock	WHI17000268	4.3	0.0025	1.2	12.4	4.4	35	0.05	1.3	3.7	440	1.52	0.25	0.25	12.6
1541067	17L00031	265	270	SR03	20	Dry	Rock	WHI17000268	4.02	0.0025	1.1	9.8	4.5	39	0.05	1.4	3.9	486	1.71	0.25	1.3	11.5
1541068	17L00031	270	275	SR03	20	Dry	Rock	WHI17000268	4.03	0.0025	0.9	9.8	4	44	0.05	1.4	4.3	544	1.78	0.25	0.25	11.1
1541069	17L00031	275	280	SR03	24	Dry	Rock	WHI17000268	4.84	0.0025	1.1	6.4	3.7	44	0.05	1.4	4.5	502	1.77	0.25	0.25	9.8
1541070	17L00031	280	285	SR03	20	Dry	Rock	WHI17000268	3.86	0.0025	1.4	6.4	2.8	43	0.05	1.5	4.4	498	1.82	0.5	0.25	10
1541071	17L00031	285	290	SR03	20	Dry	Rock	WHI17000268	3.86	0.0025	1.4	8.8	3.3	48	0.05	1.6	4	449	1.64	0.6	0.8	10
1541072	17L00031	290	295	SR03	15	Dry	Rock	WHI17000268	2.97	0.0025	1.2	5.8	3.5	48	0.05	1.7	4.2	504	1.73	0.25	0.25	10.5
1541073	17L00031	295	300	SR03	20	Dry	Rock	WHI17000268	4.23	0.006	1.2	4.3	2.6	41	0.05	1.6	3.6	434	1.56	0.7	1.6	12
1541074	17L00031	300	305	SR03	20	Dry	Rock	WHI17000268	3.35	0.009	1.4	7.8	3.8	38	0.05	1.3	4	384	1.48	1.5	2.4	13.2
1541075	17L00031	305	310	SR03	20	Dry		WHI17000268	3.56	0.108	1.9	13.4	3.9	42	0.05	1.5	3.4	427	1.47	1.2	89.8	9.8
1541076	17L00031	310	315	SR03	20	Dry		WHI17000268	3.97	0.074	1.2	11	3.5	42	0.05	1.4	4.1	460	1.57	0.7	78.8	9.6
1541077	17L00031	315	320	SR03	20	Dry		WHI17000268	4.39	0.027	1.1	7.3	2.8	39	0.05	1.2	3.8	453	1.68	0.6	35.5	10
1541078	17L00031	320	325	SR03	20	Dry		WHI17000268	4.14	0.009	1.2	17.2	2.3	53	0.05	1	7.9	664	2.71	0.25	10	8.6
1541079	17L00031	325	330	SR03	20	Dry		WHI17000268	4.51	0.005	0.8	28	3.2	71	0.05	1.3	16.5	1063	4.58	0.8	1.5	3.7
1541020	17L00031			SR03			CDN-GS-5U	WHI17000268	0.11	5.262	8.1	191	22.8	74	0.9	14.3	10.8	552	4.08	10.6	5641	2.9
1541040	17L00031			SR03			Coarse Blar	WHI17000268	0.15	0.0025	0.4	3.6	4.1	27	0.1	2.2	0.9	141	0.29	2.4	1.7	0.9
1541060	17L00031			SR03			CDN-GS-P4F	WHI17000268	0.08	0.516	6.5	286	16	52	0.6	112.2	14.6	466	2.83	173.1	671.4	3.6
1541080	17L00031			SR03			Coarse Blar	WHI17000268	0.13	0.0025	0.4	8.7	4.7	28	0.1	2.4	0.7	119	0.19	2.6	3.9	0.3
1541081	17L00032-A	0	5	SR03	19	Dry	Rock	WHI17000268	3.19	0.006	1.1	10.5	2.9	46	0.05	3.6	4.8	537	1.93	0.5	3.7	10.9
1541082	17L00032-A	5	10	SR03	20	Dry	Rock	WHI17000268	3.88	0.0025	0.6	15	3.7	52	0.05	2.8	5.4	538	1.92	0.5	5.9	11.4

Appendix II

sample	sr_pi	cd_ppr	sbbpm	bippm	vppm	capct	p_pct	la_cr	mg_pc	ba_prt	tipct	bppal	pc	na_pc	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga	seppm	teppr	
1541044	130	0.05	0.1	0.05	47	2.25	0.056	23	12	0.75	120	0.106	10	1.29	0.023	0.61	0.4	0.005	4.5	0.2	0.025	6	0.25	0.1
1541045	159	0.05	0.1	0.05	62	3.55	0.054	19	35	1.08	99	0.092	10	1.49	0.017	0.52	0.3	0.005	6.4	0.2	0.025	8	0.25	0.1
1541046	120	0.05	0.05	0.05	33	2.41	0.039	26	7	0.49	83	0.092	10	0.97	0.026	0.48	0.3	0.005	4.4	0.2	0.025	5	0.25	0.1
1541047	80	0.05	0.05	0.05	23	1.63	0.032	25	5	0.37	94	0.079	10	0.86	0.027	0.41	0.5	0.005	3.6	0.1	0.025	5	0.25	0.1
1541048	87	0.05	0.05	0.05	26	1.62	0.032	29	4	0.38	99	0.098	10	0.92	0.029	0.49	0.5	0.005	3.3	0.2	0.025	5	0.25	0.1
1541049	83	0.05	0.05	0.05	30	1.46	0.034	27	6	0.44	113	0.123	10	1.02	0.031	0.61	0.6	0.005	3.6	0.2	0.025	5	0.25	0.1
1541050	76	0.05	0.3	0.05	29	1.49	0.033	23	6	0.43	94	0.104	10	0.96	0.03	0.53	0.5	0.005	3.6	0.2	0.025	5	0.25	0.1
1541051	81	0.05	0.05	0.05	22	1.91	0.029	30	5	0.38	89	0.084	10	0.95	0.034	0.44	0.5	0.005	3.3	0.1	0.025	4	0.25	0.1
1541052	60	0.05	0.05	0.05	19	1.39	0.029	25	5	0.36	86	0.084	10	0.85	0.03	0.41	0.6	0.005	2.9	0.1	0.025	4	0.25	0.1
1541053	88	0.05	0.05	0.05	22	1.94	0.032	27	5	0.37	91	0.078	10	0.87	0.027	0.4	0.4	0.005	3.5	0.1	0.025	4	0.25	0.1
1541054	78	0.05	0.05	0.05	35	1.57	0.041	27	7	0.56	131	0.12	10	1.12	0.045	0.61	0.5	0.005	4.3	0.2	0.025	5	0.25	0.1
1541055	81	0.05	0.05	0.05	27	1.44	0.033	27	6	0.42	99	0.09	10	0.89	0.04	0.43	0.4	0.005	4	0.1	0.025	5	0.25	0.1
1541056	82	0.05	0.05	0.05	41	1.59	0.047	26	7	0.68	96	0.101	10	1.2	0.035	0.5	0.5	0.005	4.7	0.1	0.025	6	0.25	0.1
1541057	133	0.05	0.05	0.05	43	3.28	0.061	25	7	0.84	42	0.028	10	1.28	0.017	0.26	0.3	0.005	5	0.05	0.025	5	0.25	0.1
1541057	131	0.05	0.1	0.05	42	3.17	0.055	25	6	0.81	41	0.028	10	1.25	0.018	0.26	0.3	0.005	5	0.05	0.025	5	0.25	0.1
1541058	89	0.05	0.05	0.05	30	2.01	0.041	26	5	0.57	67	0.039	10	1.09	0.028	0.32	0.2	0.005	4.2	0.05	0.025	5	0.25	0.1
1541059	89	0.05	0.1	0.05	39	1.76	0.056	26	7	0.8	71	0.033	10	1.27	0.023	0.28	0.2	0.005	5.1	0.05	0.025	6	0.25	0.1
1541061	71	0.05	0.05	0.05	26	1.35	0.04	28	6	0.51	72	0.036	10	0.99	0.036	0.27	0.3	0.005	4	0.05	0.025	5	0.25	0.1
1541061	71	0.05	0.05	0.05	25	1.32	0.037	27	6	0.49	70	0.036	10	0.97	0.036	0.27	0.3	0.005	3.6	0.05	0.025	5	0.5	0.1
1541062	63	0.05	0.05	0.05	21	1.31	0.032	25	6	0.39	54	0.034	10	0.81	0.031	0.24	0.2	0.005	3.1	0.05	0.025	4	0.25	0.1
1541063	46	0.05	0.05	0.05	17	1.02	0.026	29	6	0.31	54	0.042	10	0.73	0.037	0.25	0.4	0.005	3	0.05	0.025	4	0.25	0.1
1541064	44	0.05	0.05	0.05	9	1.14	0.014	33	5	0.17	41	0.028	10	0.45	0.033	0.17	0.6	0.005	1.9	0.05	0.025	3	0.25	0.1
1541065	51	0.05	0.05	0.05	11	1.33	0.019	34	5	0.19	48	0.037	10	0.56	0.043	0.22	0.4	0.005	2.2	0.05	0.025	3	0.25	0.1
1541066	51	0.05	0.05	0.1	17	1.21	0.026	31	6	0.3	53	0.055	10	0.69	0.039	0.28	0.4	0.005	2.8	0.1	0.025	4	0.25	0.1
1541067	61	0.05	0.05	0.05	19	1.4	0.028	31	6	0.33	77	0.047	10	0.78	0.045	0.27	0.3	0.005	3.2	0.05	0.025	5	0.25	0.1
1541068	62	0.05	0.05	0.05	20	1.35	0.033	32	6	0.42	106	0.046	10	0.81	0.04	0.26	0.3	0.005	3	0.05	0.025	5	0.25	0.1
1541069	65	0.05	0.1	0.05	20	1.22	0.032	28	6	0.42	73	0.034	10	0.79	0.043	0.21	0.3	0.005	2.8	0.05	0.025	4	0.25	0.1
1541070	51	0.05	0.2	0.05	21	1	0.032	26	9	0.42	69	0.054	10	0.79	0.04	0.3	0.7	0.005	3.1	0.05	0.025	4	0.25	0.1
1541071	52	0.05	0.2	0.05	17	1.14	0.03	30	7	0.37	58	0.027	10	0.73	0.043	0.21	0.4	0.005	2.4	0.05	0.025	4	0.25	0.1
1541072	69	0.05	0.1	0.05	16	1.21	0.035	31	8	0.53	46	0.009	10	0.91	0.028	0.16	0.4	0.005	2.5	0.05	0.025	4	0.25	0.1
1541073	43	0.05	0.1	0.05	13	0.74	0.027	32	7	0.52	32	0.004	10	0.83	0.046	0.14	0.2	0.005	2	0.05	0.025	4	0.25	0.1
1541074	49	0.05	0.2	0.05	13	1.02	0.026	31	7	0.35	28	0.004	10	0.72	0.036	0.16	0.3	0.01	2.2	0.05	0.09	4	0.25	0.1
1541075	57	0.05	0.2	0.05	11	1.67	0.025	27	6	0.3	108	0.004	10	0.74	0.039	0.21	0.1	0.03	2.5	0.05	0.09	4	0.25	0.1
1541076	69	0.05	0.1	0.05	13	1.66	0.026	28	7	0.36	85	0.009	10	0.81	0.035	0.2	0.05	0.02	2.5	0.05	0.08	4	0.25	0.1
1541077	70	0.05	0.1	0.05	16	1.07	0.029	29	7	0.38	91	0.031	10	0.88	0.045	0.26	0.1	0.01	2.5	0.05	0.025	5	0.25	0.1
1541078	106	0.05	0.05	0.05	57	1.68	0.07	26	6	0.97	609	0.082	10	1.44	0.039	0.37	0.3	0.01	5.3	0.05	0.08	7	0.25	0.1
1541079	191	0.05	0.1	0.05	138	3.06	0.147	12	5	2.06	553	0.113	10	2.45	0.029	0.44	0.2	0.02	11.6	0.05	0.17	8	0.25	0.1
1541020	76	0.1	4.2	0.5	103	0.89	0.058	7	18	0.85	134	0.138	10	1.7	0.179	0.23	5	0.16	3.3	0.05	0.025	5	0.25	0.1
1541040	253	0.1	1.5	0.05	17	17.73	0.016	3	3	10.13	23	0.01	10	0.18	0.005	0.06	0.3	0.005	0.6	0.05	0.025	0.5	0.25	0.1
1541060	80	0.2	1.8	0.1	66	1.74	0.033	9	106	1.45	125	0.102	10	2.72	0.312	0.21	1	0.03	3.1	0.05	0.11	6	0.25	0.1
1541080	278	0.3	1.4	0.05	17	18.97	0.015	2	3	12.16	19	0.003	10	0.13	0.002	0.02	0.2	0.005	0.4	0.05	0.025	0.5	0.25	0.1
1541081	13	0.05	0.1	0.05	22	0.2	0.035	27	4	0.38	131	0.063	10	1.01	0.052	0.42	0.4	0.01	3.9	0.1	0.025	5	0.25	0.1
1541082	11	0.05	0.1	0.05	19	0.25	0.04	42	4	0.41	147	0.016	10	1.04	0.042	0.23	0.4	0.005	3.4	0.05	0.025	5	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pp	cl	as_pp	au_pp	plth_pp
1541083	17L00032-A	10	15	SR03	26	Dry	Rock	WHI17000268	5.69	0.0025	0.4	6	2.6	51	0.05	2	4.8	530	1.88	0.25	2.6	11.2	
1541084	17L00032-A	15	20	SR03	20	Dry	Rock	WHI17000268	4.41	0.0025	0.6	4	1.8	42	0.05	1.6	4.9	508	1.88	0.6	0.9	10.6	
1541085	17L00032-A	20	25	SR03	20	Dry	REP	WHI17000268	3.46	0.0025	0.7	9.9	2.7	53	0.05	1.8	5.5	511	2.01	0.25	0.25	10.9	
1541085	17L00032-A	20	25	SR03	20	Dry	Rock	WHI17000268		0.0025													
1541086	17L00032-A	25	30	SR03	20	Dry	Rock	WHI17000268	3.65	0.0025	1	6.2	2.5	49	0.05	1.7	5.3	562	2.02	0.25	0.7	10.3	
1541087	17L00032-A	30	35	SR03	20	Dry	Rock	WHI17000268	3.44	0.0025	0.9	6.9	3.1	51	0.05	2.2	5.7	570	2.02	0.25	0.25	11.1	
1541088	17L00032-A	35	40	SR03	20	Dry	Rock	WHI17000268	3.48	0.0025	1.2	13.2	5.5	41	0.05	2.2	4.9	537	1.79	0.25	1.2	9.1	
1541089	17L00032-E	0	5	SR03	17	Dry	Rock	WHI17000268	3.67	0.006	2.2	10.7	3.3	41	0.05	3.8	4.5	482	1.78	0.5	3.6	10.1	
1541090	17L00032-E	5	10	SR03	20	Dry	Rock	WHI17000268	3.82	0.009	2	10.5	3.2	43	0.05	7.2	5.2	537	1.74	0.25	6.2	9.8	
1541091	17L00032-E	10	15	SR03	24	Dry	DUP	WHI17000268	6.18	0.0025	0.8	9.7	2.5	52	0.05	2.6	5	571	1.9	0.25	3.5	9.4	
1541091	17L00032-E	10	15	SR03	24	Dry	Rock	WHI17000268		0.0025	0.6	7.1	2.1	42	0.05	2.1	5.1	507	1.85	0.25	3.2	9.7	
1541092	17L00032-E	15	20	SR03	30	Dry	REP	WHI17000268		0.0025													
1541092	17L00032-E	15	20	SR03	30	Dry	Rock	WHI17000268	6.39	0.0025	0.8	9.3	2.1	48	0.05	2.4	5	532	2.01	0.25	0.25	11.3	
1541093	17L00032-E	20	25	SR03	26	Dry	Rock	WHI17000268	6.22	0.0025	0.8	6.8	1.8	40	0.05	2.3	4.6	470	1.79	0.25	1.9	10.1	
1541094	17L00032-E	25	30	SR03	6	Dry	Rock	WHI17000268	1.72	0.0025	0.9	4.8	1.9	47	0.05	2	5	590	1.94	0.25	0.5	9	
1541095	17L00033	0	5	SR03	6	Dry	Rock	WHI17000268	1.45	0.01	2.9	51.4	4.8	37	0.05	13.5	2.7	339	1.38	0.6	7.9	13	
1541096	17L00033	5	10	SR03	24	Dry	Rock	WHI17000268			1	64.3	5.5	41	0.2	2.8	2.6	382	1.29	0.25	3.2	11.1	
1541096	17L00033	5	10	SR03	24	Dry	REP	WHI17000268	5.47	0.006	1.3	60.9	5.2	38	0.2	4.6	2.6	386	1.3	0.25	3.9	10.7	
1541097	17L00033	10	15	SR03	26	Dry	Rock	WHI17000268	5.34	0.0025	1	32.1	5.5	56	0.05	1.9	2.5	383	1.35	0.25	1.5	11.1	
1541098	17L00033	15	20	SR03	26	Dry	Rock	WHI17000268	5.02	0.0025	1.4	15.4	4.9	43	0.05	2.4	2.7	432	1.32	0.25	1.5	11.1	
1541099	17L00033	20	25	SR03	25	Dry	Rock	WHI17000268	5.97	0.0025	0.9	8.6	8.6	56	0.05	1.7	2.7	388	1.29	0.25	0.25	10.8	
1541101	17L00033	25	30	SR03	14	Dry	Rock	WHI17000268	3.76	0.0025	1.1	11.7	3	47	0.05	1.5	3.1	442	1.6	0.25	2.9	11.6	
1541100	17L00033			SR03			CDN-GS-5U	WHI17000268	0.08	5.021	8.9	197	24.4	75	0.8	14.8	11.2	589	4.29	11.6	4783	3	
1541102	17L00034	0	5	SR03	15	Dry	Rock	WHI17000268	3.07	6.724	5.4	10.5	5.9	25	3.6	4.5	4.4	340	1.66	1.3	6157	11.1	
1541103	17L00034	5	10	SR03	21	Dry	Rock	WHI17000268	4.64	0.069	3.6	9	2.1	27	0.05	2.6	3.2	415	1.32	0.25	44.7	11.4	
1541104	17L00034	10	15	SR03	26	Dry	Rock	WHI17000268	6.55	0.009	1.9	12.4	1.9	49	0.05	8.4	4.7	489	1.68	0.25	7	9.2	
1541105	17L00034	15	20	SR03	15	Dry	Rock	WHI17000268	3.03	0.005	0.9	18.1	2.3	34	0.05	1.4	3.9	505	1.77	0.25	7.5	10.7	
1541106	17L00034	20	25	SR03	16	Dry	Rock	WHI17000268	3.01	0.0025	0.8	6.6	1.3	46	0.05	1.5	4.7	604	2.03	0.25	1.6	10.4	
1541107	17L00034	25	30	SR03	18	Dry	Rock	WHI17000268	3.42	0.0025	0.7	6.2	2.2	42	0.05	1.1	3.8	497	1.61	0.25	1.3	9.9	
1541108	17L00034	30	35	SR03	20	Dry	Rock	WHI17000268	3.6	0.0025	0.6	8.2	2.9	41	0.05	1.7	4.4	540	1.69	0.25	5.1	9.4	
1541109	17L00034	35	40	SR03	20	Dry	Rock	WHI17000268	3.59	0.0025	0.7	6.5	3.7	38	0.05	2.8	2.9	483	1.3	0.25	2	11.4	
1541110	17L00034	40	45	SR03	20	Dry	REP	WHI17000268			0.7	10.4	3.3	44	0.05	1.5	2.5	402	1.3	0.25	7.2	10.2	
1541110	17L00034	40	45	SR03	20	Dry	Rock	WHI17000268	3.54	0.012	0.7	10.7	3.3	47	0.05	1.4	2.6	389	1.3	0.25	7.7	10.1	
1541111	17L00034	45	50	SR03	20	Dry	Rock	WHI17000268	3.88	0.014	0.9	43.5	5	41	0.1	1	2.3	351	1.06	0.25	6.3	10.3	
1541112	17L00034	50	55	SR03	20	Dry	Rock	WHI17000267	3.05	0.026	1	25.4	8	31	0.1	1.2	2.1	358	1.07	0.5	18.9	14.2	
1541113	17L00034	55	60	SR03	20	Dry	Rock	WHI17000267	2.79	0.056	1.4	14.7	7.9	28	0.05	1.6	2.5	427	1.1	0.25	19	12.3	
1541114	17L00034	60	65	SR03	20	Dry	Rock	WHI17000267	2.44	0.106	3	5.7	6.2	57	0.1	1.9	4	949	2.11	0.25	110.5	11.2	
1541115	17L00034	65	70	SR03	20	Dry	Rock	WHI17000267	2.79	0.023	1.9	8.1	4.1	27	0.05	1.8	2.3	485	1.33	0.25	18.8	12.7	
1541116	17L00034	70	75	SR03	20	Dry	Rock	WHI17000267	3.15	0.084	1.6	9.2	4	59	0.05	1.3	2.5	403	1.3	0.25	78.2	11.7	
1541117	17L00034	75	80	SR03	20	Dry	Rock	WHI17000267	3.79	0.006	0.8	4.1	5.9	39	0.05	1.9	2.5	373	1.26	0.25	4.5	10.5	
1541118	17L00034	80	85	SR03	20	Dry	Rock	WHI17000267	3.81	0.119	1.7	3.4	4.4	23	0.05	1.2	2.1	360	1.12	0.25	122.3	11.8	
1541119	17L00034	85	90	SR03	20	Dry	Rock	WHI17000267	3.69	0.098	0.9	3.6	3.6	27	0.05	1.5	2.5	341	1.1	0.25	86.4	10.4	
1541121	17L00034	90	95	SR03	20	Dry	DUP	WHI17000267		0.097	1.3	3.9	3.8	16	0.05	1.5	2.1	278	0.89	0.25	80.4	10.4	

Appendix II

sample	sr_pi	cd_ppr	sbbpm	bippm	vppm	capct	p_pct	la_cr	mg_pc	ba_pr	tipct	bppal	pc	na_pc	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga	seppm	teppr	
1541083	16	0.05	0.1	0.05	22	0.21	0.032	25	3	0.5	84	0.06	10	0.96	0.054	0.32	0.6	0.005	2.7	0.05	0.025	5	0.25	0.1
1541084	20	0.05	0.05	0.05	26	0.22	0.031	24	4	0.55	110	0.114	10	1.1	0.077	0.53	0.4	0.005	3.6	0.2	0.025	5	0.25	0.1
1541085	23	0.05	0.05	0.05	28	0.28	0.041	29	5	0.52	111	0.088	10	1.07	0.062	0.46	0.3	0.005	3.2	0.2	0.025	5	0.25	0.1
1541085																								
1541086	17	0.05	0.05	0.05	26	0.26	0.039	30	5	0.52	112	0.073	10	1.13	0.051	0.42	0.4	0.005	3.3	0.1	0.025	6	0.25	0.1
1541087	17	0.05	0.05	0.05	28	0.25	0.037	26	5	0.54	132	0.094	10	1.18	0.058	0.52	0.4	0.005	3.8	0.2	0.025	6	0.25	0.1
1541088	17	0.05	0.05	0.6	24	0.28	0.033	24	4	0.43	118	0.054	10	1.14	0.048	0.42	0.3	0.005	2.8	0.1	0.025	5	0.25	0.1
1541089	10	0.05	0.2	0.3	22	0.18	0.035	31	3	0.21	143	0.033	10	0.86	0.045	0.28	0.3	0.01	3.7	0.05	0.025	4	0.25	0.1
1541090	8	0.05	0.2	0.05	17	0.16	0.036	31	7	0.22	126	0.012	10	0.73	0.056	0.18	0.4	0.005	2.9	0.05	0.025	3	0.25	0.1
1541091	17	0.05	0.05	0.05	25	0.21	0.03	29	4	0.45	123	0.098	10	1.1	0.052	0.48	0.5	0.005	3.5	0.1	0.025	6	0.25	0.1
1541091	16	0.05	0.05	0.05	24	0.2	0.032	28	4	0.45	122	0.1	10	1	0.051	0.48	0.4	0.005	3.4	0.1	0.025	5	0.25	0.1
1541092																								
1541092	15	0.05	0.05	0.05	31	0.19	0.039	28	5	0.6	153	0.122	10	1.11	0.066	0.62	0.6	0.005	4.4	0.2	0.025	5	0.25	0.1
1541093	15	0.05	0.05	0.05	23	0.18	0.032	29	4	0.43	115	0.107	10	0.99	0.058	0.53	0.6	0.005	3.1	0.2	0.025	5	0.25	0.1
1541094	16	0.05	0.05	0.05	27	0.2	0.035	23	4	0.5	128	0.119	10	1.07	0.06	0.57	0.5	0.005	3.4	0.2	0.025	5	0.25	0.1
1541095	10	0.05	0.1	1.1	11	0.11	0.022	21	13	0.21	88	0.057	10	0.72	0.056	0.31	0.7	0.005	2.8	0.1	0.025	3	0.25	0.1
1541096	10	0.1	0.05	1.1	10	0.12	0.022	29	4	0.18	105	0.048	10	0.63	0.048	0.31	1.1	0.005	2.1	0.1	0.025	3	0.25	0.1
1541096	9	0.1	0.05	1	10	0.12	0.023	28	5	0.18	100	0.047	10	0.63	0.047	0.31	1	0.005	2.2	0.1	0.025	3	0.25	0.1
1541097	11	0.1	0.05	0.5	11	0.12	0.023	23	5	0.21	92	0.058	10	0.63	0.058	0.35	0.9	0.005	2.3	0.2	0.025	3	0.25	0.1
1541098	15	0.1	0.05	0.3	11	0.18	0.024	35	5	0.2	106	0.058	10	0.66	0.056	0.33	1.3	0.005	2.3	0.1	0.025	3	0.25	0.1
1541099	29	0.05	0.05	0.05	13	0.54	0.027	28	4	0.24	90	0.065	10	0.68	0.072	0.37	1.4	0.005	2.3	0.1	0.025	3	0.25	0.1
1541101	18	0.05	0.05	0.2	17	0.29	0.028	30	4	0.27	98	0.084	10	0.7	0.055	0.4	0.7	0.005	3.4	0.1	0.025	4	0.25	0.1
1541100	72	0.2	4.1	0.5	105	0.94	0.06	7	19	0.88	137	0.151	10	1.81	0.2	0.25	5.6	0.17	3.3	0.05	0.025	5	0.25	0.1
1541102	8	0.05	0.2	4.1	13	0.27	0.023	24	5	0.12	75	0.023	10	0.87	0.007	0.27	0.5	0.08	2.3	0.05	0.025	3	0.25	7.9
1541103	16	0.05	0.05	0.05	12	0.59	0.018	28	4	0.23	86	0.061	10	0.69	0.038	0.39	0.9	0.005	2.1	0.2	0.025	3	0.25	0.1
1541104	18	0.05	0.05	0.05	19	0.68	0.031	28	8	0.35	125	0.098	10	0.79	0.045	0.49	0.8	0.005	2.9	0.2	0.025	4	0.25	0.1
1541105	17	0.05	0.05	0.05	22	0.55	0.029	27	3	0.37	148	0.105	10	0.85	0.06	0.52	0.5	0.005	4.1	0.1	0.025	4	0.25	0.1
1541106	13	0.05	0.05	0.05	25	0.5	0.036	27	3	0.61	149	0.131	10	1.1	0.07	0.71	0.6	0.005	4.9	0.2	0.025	5	0.25	0.1
1541107	16	0.05	0.05	0.05	19	0.51	0.029	24	3	0.34	121	0.075	10	0.83	0.055	0.47	0.4	0.005	3.3	0.1	0.025	4	0.25	0.1
1541108	30	0.05	0.05	0.05	18	1.22	0.037	25	3	0.31	119	0.059	10	0.81	0.052	0.42	0.3	0.005	3.1	0.1	0.025	4	0.25	0.1
1541109	35	0.05	0.05	0.05	11	1.57	0.032	27	5	0.3	96	0.035	10	0.75	0.045	0.33	0.4	0.005	2.3	0.05	0.025	3	0.25	0.1
1541110	20	0.05	0.05	0.05	9	1.05	0.024	25	3	0.4	54	0.026	10	0.68	0.065	0.27	0.5	0.005	2.1	0.05	0.025	3	0.25	0.1
1541110	20	0.05	0.05	0.05	9	1.05	0.024	24	3	0.39	52	0.025	10	0.68	0.066	0.27	0.6	0.005	1.9	0.05	0.025	3	0.25	0.1
1541111	30	0.1	0.05	0.3	7	1.27	0.025	27	2	0.09	71	0.016	10	0.49	0.055	0.23	0.3	0.005	1.5	0.05	0.025	2	0.25	0.1
1541112	24	0.2	0.05	1	5	1.08	0.021	27	3	0.08	69	0.016	10	0.4	0.026	0.17	0.6	0.005	1.4	0.05	0.025	2	0.25	0.1
1541113	11	0.1	0.05	0.6	6	0.62	0.025	29	4	0.08	112	0.016	10	0.39	0.008	0.18	0.8	0.005	1.7	0.05	0.025	2	0.25	0.1
1541114	35	0.05	0.05	0.1	14	4.42	0.023	27	4	0.14	216	0.01	10	0.5	0.007	0.16	0.4	0.005	2.3	0.05	0.025	2	0.25	0.1
1541115	20	0.05	0.05	0.05	9	1.57	0.026	29	5	0.08	114	0.018	10	0.4	0.005	0.17	0.6	0.005	2.6	0.05	0.025	2	0.25	0.1
1541116	9	0.05	1.5	0.2	9	0.36	0.03	34	4	0.09	108	0.017	10	0.45	0.019	0.18	0.6	0.005	2.3	0.05	0.025	2	0.25	0.1
1541117	30	0.05	0.05	0.05	10	0.98	0.03	27	3	0.07	67	0.014	10	0.36	0.018	0.16	0.4	0.005	2.5	0.05	0.025	2	0.25	0.1
1541118	45	0.05	0.05	0.05	7	1.34	0.023	29	4	0.08	67	0.017	10	0.4	0.027	0.17	0.4	0.005	2.4	0.05	0.025	2	0.25	0.1
1541119	21	0.05	0.05	0.05	7	0.48	0.023	27	4	0.12	50	0.015	10	0.39	0.026	0.14	0.4	0.005	1.9	0.05	0.025	2	0.25	0.1
1541121	32	0.05	0.1	0.05	4	1.38	0.022	25	4	0.05	138	0.003	10	0.26	0.015	0.11	0.5	0.005	1.6	0.05	0.025	0.5	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pct	as_pp	au_pp	plth_pp	
1541121	17L00034	90	95	SR03	20	Dry	REP	WHI17000267		0.089													
1541121	17L00034	90	95	SR03	20	Dry	Rock	WHI17000267	3.08	0.088	1.2	4	3.3	15	0.05	1.7	2.1	311	0.97	0.25	72	9.7	
1541122	17L00034	95	100	SR03	20	Dry	Rock	WHI17000267	3.15	0.324	1.6	2	2.8	14	0.4	1.4	3.4	280	0.89	0.25	339.7	9.9	
1541123	17L00034	100	105	SR03	20	Dry	Rock	WHI17000267	3.24	0.187	1.4	1.3	6	18	0.2	1.9	2.7	416	0.95	0.25	167.1	9.4	
1541124	17L00034	105	110	SR03	20	Dry	Rock	WHI17000267	3.35	0.358	2.1	1.5	3.6	49	0.3	1.5	3.4	515	1.76	0.9	370.2	13.8	
1541125	17L00034	110	115	SR03	20	Dry	Rock	WHI17000267	2.93	0.016	2.1	4	3.5	34	0.05	1.8	2.8	672	1.47	0.25	14.1	11	
1541126	17L00034	115	120	SR03	20	Dry	Rock	WHI17000267	3.5	0.0025	0.9	2.5	4.6	33	0.05	1.4	3.5	491	1.5	0.25	5.3	11	
1541127	17L00034	120	125	SR03	20	Dry	Rock	WHI17000267	4.07	0.005	1.2	4.5	3.9	28	0.05	1.4	2.4	419	1.16	0.25	6.4	12.9	
1541128	17L00034	125	130	SR03	20	Dry	Rock	WHI17000267	3.8	0.0025	1.1	12.9	3.2	36	0.05	1.7	2.6	413	1.33	0.25	2.1	14.4	
1541129	17L00034	130	135	SR03	20	Dry	Rock	WHI17000267	3.53	0.007	1.4	17.4	3.4	38	0.05	2	2.8	457	1.33	0.25	5.5	14.6	
1541130	17L00034	135	140	SR03	20	Dry	Rock	WHI17000267	3.61	0.013	2.8	15.8	3	34	0.05	1.8	3.8	543	1.64	0.25	7.3	9.9	
1541131	17L00034	140	145	SR03	20	Dry	Rock	WHI17000267	3.58	0.007	7.8	14.3	3.7	47	0.05	1.8	3.7	531	1.66	0.6	6.5	12.2	
1541132	17L00034	145	150	SR03	20	Dry	Rock	WHI17000267	3.73	0.015	1.5	6.1	3.6	62	0.05	1.8	3	421	1.46	0.25	14.2	9.8	
1541133	17L00034	150	155	SR03	20	Dry	Rock	WHI17000267	2.95	0.008	2.2	7.5	4.2	32	0.05	1.5	3	454	1.31	0.25	4.7	13.7	
1541134	17L00034	155	160	SR03	20	Dry	Rock	WHI17000267	3.35	0.0025	1.3	5	3.9	31	0.05	1.7	3.1	397	1.36	0.25	1.7	11.5	
1541135	17L00034	160	165	SR03	20	Dry	REP	WHI17000267			1.1	4.3	2.5	27	0.05	1.7	2.9	338	1.4	0.25	1	10.8	
1541135	17L00034	160	165	SR03	20	Dry	Rock	WHI17000267	3	0.0025	1.1	4.7	2.7	28	0.05	1.6	2.7	338	1.33	0.25	0.6	11.3	
1541136	17L00034	165	170	SR03	17	Dry	Rock	WHI17000267	2.72	0.0025	1.6	4.9	3.9	26	0.05	2.1	3.1	450	1.26	0.25	0.9	7.5	
1541137	17L00034	170	175	SR03	20	Dry	Rock	WHI17000267	2.81	0.0025	2	5.4	4.3	26	0.05	1.8	3.4	418	1.3	0.6	1.6	11	
1541138	17L00034	175	180	SR03	20	Dry	Rock	WHI17000267	3.13	0.0025	1.5	4.5	3.2	28	0.05	1.3	2.9	434	1.51	0.25	0.6	11.8	
1541139	17L00034	180	185	SR03	20	Dry	Rock	WHI17000267	2.92	0.0025	1.4	3.9	3.2	25	0.05	1.6	2.6	419	1.15	0.25	0.25	10.1	
1541141	17L00034	185	190	SR03	20	Dry	Rock	WHI17000267	2.93	0.005	1.4	9.7	3.4	32	0.05	1.2	4.1	540	1.68	0.25	0.25	9	
1541142	17L00034	190	195	SR03	20	Dry	Rock	WHI17000267	3.68	0.0025	2.6	5.7	4.7	35	0.05	1.6	4.6	451	1.65	0.5	1.4	9.9	
1541143	17L00034	195	200	SR03	20	Dry	Rock	WHI17000267	2.99	0.011	2.6	4.9	4.4	30	0.05	1.6	5.6	714	1.84	0.25	7.3	7.5	
1541120	17L00034			SR03			Coarse Blar	WHI17000267		0.007													
1541120	17L00034			SR03			REPBlank	WHI17000267	0.17	0.007	0.5	7.6	5.2	21	0.1	1.8	0.6	123	0.22	3.3	6	0.7	
1541140	17L00034			SR03			CDN-GS-P4F	WHI17000267	0.08	0.596	6.2	305	15.5	54	0.7	118.1	17.9	491	2.9	175.1	493.1	3	
1541144	17L00035	0	5	SR03	19	Dry	Rock	WHI17000267	2.73	0.005	4.7	13.5	3.5	22	0.05	6	4.1	264	1.3	1.9	3.4	15.2	
1541145	17L00035	5	10	SR03	20	Dry	Rock	WHI17000267	4.1	0.352	2	9.6	3.7	17	0.2	3.9	2.9	308	1.02	0.7	314	16.8	
1541146	17L00035	10	15	SR03	30	Dry	Rock	WHI17000267	6.23	9.28	4.6	6.2	8.9	8	6.7	2.3	2.3	144	1.71	4.5	11058	13.4	
1541147	17L00035	15	20	SR03	15	Dry	Rock	WHI17000267	2.71	5.282	5.7	5.9	9.3	8	3.2	1.5	3.3	125	1.35	2.2	6286	15.6	
1541148	17L00035	20	25	SR03	20	Dry	Rock	WHI17000267	3.64	1.159	3.7	10.2	4	7	0.5	1.8	3.8	172	0.88	0.6	1142	19.3	
1541149	17L00035	25	30	SR03	20	Dry	Rock	WHI17000267	3.61	0.727	5.7	9.1	3.8	10	0.4	1.4	3.3	191	1.12	0.8	690.4	21.1	
1541150	17L00035	30	35	SR03	7	Dry	Rock	WHI17000267	2.14	0.227	4.3	10.6	2.7	16	0.1	2.1	2.8	244	1.05	0.25	224.8	21.1	
1541151	17L00035	35	40	SR03	20	Dry	Rock	WHI17000267	4.09	0.073	3.4	7	3.8	37	0.05	1.7	5.2	559	1.86	0.25	55.8	14.8	
1541152	17L00035	40	45	SR03	20	Dry	Rock	WHI17000267	3.83	0.026	2	12.4	3.3	31	0.05	2.6	5.5	428	1.77	0.7	17.2	15	
1541153	17L00035	45	50	SR03	20	Dry	Rock	WHI17000267	3.5	0.018	1.4	8.9	2.6	23	0.05	2.2	2.6	309	1.22	0.6	16.5	15.8	
1541154	17L00035	50	55	SR03	20	Dry	Rock	WHI17000267	3.63	0.018	2.1	2.6	4.7	26	0.05	2.1	2.3	466	1.18	0.25	14.9	10.8	
1541155	17L00035	55	60	SR03	20	Dry	DUP	WHI17000267		0.017	1.8	3.8	2.1	17	0.05	1.8	1.9	289	0.98	0.25	16.4	16.4	
1541155	17L00035	55	60	SR03	20	Dry	Rock	WHI17000267	3.84	0.012	1.5	3.3	2.1	17	0.05	1.5	1.8	282	1.03	0.25	15.4	16.2	
1541156	17L00035	60	65	SR03	20	Dry	Rock	WHI17000267	3.42	0.02	1.6	6.9	2	22	0.05	2.1	3	464	1.34	0.25	23.1	15.4	
1541157	17L00035	65	70	SR03	20	Dry	Rock	WHI17000267	3.67	0.012	1.4	3.8	2.8	14	0.05	2.1	1.9	235	0.88	0.6	11.4	17.5	
1541158	17L00035	70	75	SR03	20	Dry	Rock	WHI17000267	3.41	0.017	1.6	2.5	2.5	15	0.05	1.5	1.7	336	1.02	0.25	19.7	18.6	

Appendix II

sample	sr_pi	cd_ppr	sbppm	bippm	vppm	capct	p_pct	la_cr	mg_pc	ba_pi	tipct	bppi	al_pc	na_pi	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga_	seppm	teppr	
1541121																								
1541121	30	0.05	0.1	0.05	5	1.34	0.025	28	4	0.06	150	0.003	10	0.35	0.023	0.14	0.4	0.005	1.6	0.05	0.025	1	0.25	0.1
1541122	28	0.05	0.2	0.2	3	1.28	0.029	30	4	0.04	71	0.002	10	0.31	0.023	0.15	0.4	0.005	1.4	0.05	0.025	0.5	0.25	0.4
1541123	82	0.05	0.05	0.2	3	3.54	0.023	28	4	0.05	63	5E-04	10	0.26	0.009	0.14	0.4	0.02	1.6	0.05	0.025	0.5	0.25	0.2
1541124	34	0.05	0.05	0.3	10	1.33	0.027	34	4	0.38	81	0.002	10	0.68	0.024	0.18	0.2	0.03	3.2	0.05	0.025	3	0.25	0.5
1541125	38	0.05	0.05	0.05	9	1.49	0.026	31	5	0.17	122	0.004	10	0.41	0.018	0.1	0.3	0.005	2.2	0.05	0.025	2	0.25	0.1
1541126	65	0.05	0.1	0.05	14	1.58	0.033	28	4	0.18	57	0.026	10	0.54	0.024	0.23	0.3	0.005	3.3	0.05	0.025	3	0.25	0.1
1541127	46	0.05	0.05	0.05	7	1.19	0.023	32	5	0.15	40	0.013	10	0.39	0.026	0.14	0.5	0.005	2.3	0.05	0.025	2	0.25	0.1
1541128	25	0.05	0.05	0.05	8	0.68	0.022	33	5	0.22	35	0.019	10	0.52	0.045	0.15	0.5	0.005	2.4	0.05	0.025	3	0.25	0.1
1541129	25	0.05	0.05	0.05	9	0.76	0.021	34	6	0.29	61	0.011	10	0.53	0.032	0.1	0.3	0.005	2.6	0.05	0.025	3	0.25	0.1
1541130	38	0.05	0.05	0.05	15	1.13	0.032	30	6	0.31	77	0.047	10	0.71	0.043	0.3	0.4	0.005	2.6	0.1	0.025	3	0.25	0.1
1541131	55	0.05	0.1	0.3	13	1.35	0.029	28	5	0.3	73	0.058	10	0.71	0.026	0.35	0.5	0.005	3.2	0.1	0.025	4	0.25	0.1
1541132	19	0.2	0.5	0.1	8	0.62	0.023	28	7	0.23	46	0.035	10	0.59	0.053	0.26	0.6	0.005	1.9	0.05	0.025	3	0.25	0.1
1541133	57	0.05	0.05	0.05	7	1.26	0.026	33	6	0.12	117	0.017	10	0.42	0.017	0.14	0.5	0.005	2.1	0.05	0.025	2	0.25	0.1
1541134	49	0.05	0.05	0.05	8	1.23	0.026	33	5	0.16	92	0.023	10	0.55	0.033	0.19	0.4	0.005	2.1	0.05	0.025	2	0.25	0.1
1541135	35	0.05	0.05	0.05	9	0.93	0.026	32	5	0.2	68	0.043	37	0.65	0.024	0.27	0.5	0.005	2.6	0.05	0.025	3	0.25	0.1
1541135	38	0.05	0.05	0.05	9	0.98	0.025	34	5	0.2	67	0.043	10	0.63	0.017	0.26	0.7	0.005	2.8	0.05	0.025	3	0.25	0.1
1541136	60	0.05	0.1	0.05	11	1.75	0.035	22	7	0.18	83	0.022	10	0.67	0.009	0.26	0.5	0.005	2.9	0.1	0.025	3	0.25	0.1
1541137	64	0.05	0.05	0.05	7	1.88	0.025	29	5	0.09	53	0.01	10	0.45	0.013	0.16	0.4	0.005	2.9	0.05	0.025	2	0.25	0.1
1541138	50	0.05	0.05	0.05	10	1.42	0.027	31	5	0.18	84	0.042	10	0.68	0.02	0.27	0.5	0.005	3.5	0.05	0.025	3	0.25	0.1
1541139	61	0.05	0.05	0.05	8	1.78	0.027	29	6	0.15	47	0.026	10	0.55	0.023	0.21	0.5	0.005	2.4	0.05	0.025	3	0.25	0.1
1541141	74	0.05	0.05	0.05	17	2.03	0.031	27	5	0.3	90	0.051	10	0.77	0.024	0.33	0.4	0.005	3.2	0.1	0.025	3	0.25	0.1
1541142	74	0.05	0.2	0.05	21	1.82	0.035	27	6	0.24	61	0.045	10	0.66	0.025	0.3	0.3	0.005	4.8	0.05	0.025	3	0.25	0.1
1541143	85	0.05	0.05	0.05	18	2.12	0.033	25	6	0.25	209	0.044	10	0.7	0.019	0.33	0.3	0.005	3.3	0.1	0.025	3	0.25	0.1
1541120																								
1541120	270	0.3	1.4	0.05	15	19.97	0.017	3	3	10.96	19	0.003	10	0.1	0.002	0.02	0.2	0.02	0.6	0.05	0.025	0.5	0.25	0.1
1541140	76	0.3	1.5	0.1	66	1.84	0.033	9	115	1.47	135	0.097	10	2.7	0.315	0.23	0.9	0.03	2.6	0.05	0.1	6	0.25	0.1
1541144	7	0.05	0.1	0.05	14	0.13	0.016	26	8	0.12	63	0.03	10	0.53	0.013	0.16	0.5	0.005	2.9	0.05	0.025	2	0.25	0.1
1541145	9	0.05	0.1	0.2	7	0.37	0.018	33	4	0.08	66	0.004	10	0.43	0.021	0.15	0.5	0.05	2.1	0.05	0.025	1	0.25	0.4
1541146	14	0.05	0.3	3	4	0.32	0.012	24	4	0.03	76	0.001	10	0.35	0.016	0.18	0.6	0.38	1.1	0.05	0.07	1	0.25	10.9
1541147	11	0.05	0.2	2.6	3	0.07	0.013	15	4	0.02	63	5E-04	10	0.42	0.001	0.15	0.5	0.4	1	0.05	0.025	1	0.25	7.2
1541148	10	0.05	0.05	0.5	3	0.43	0.017	26	4	0.02	54	0.002	10	0.37	0.009	0.13	0.6	0.09	1.1	0.1	0.025	0.5	0.25	1.3
1541149	12	0.05	0.05	0.3	3	0.54	0.014	28	3	0.03	58	0.003	10	0.34	0.019	0.14	0.5	0.12	1.5	0.05	0.025	1	0.25	1.1
1541150	10	0.05	0.05	0.1	6	0.42	0.012	32	4	0.07	52	0.013	10	0.35	0.028	0.13	0.6	0.05	1.9	0.05	0.025	2	0.25	0.1
1541151	20	0.05	0.1	0.05	25	0.59	0.041	29	5	0.34	116	0.024	10	0.87	0.03	0.22	0.4	0.03	4.1	0.05	0.025	5	0.25	0.1
1541152	31	0.05	0.1	0.05	22	1.13	0.045	34	4	0.36	72	0.04	10	0.76	0.027	0.25	0.7	0.01	3.2	0.1	0.025	4	0.25	0.1
1541153	18	0.05	0.05	0.05	9	0.69	0.016	31	9	0.14	51	0.023	10	0.45	0.038	0.16	0.7	0.01	2.2	0.05	0.025	2	0.25	0.1
1541154	30	0.05	0.05	0.05	12	1.46	0.018	24	5	0.1	81	0.004	10	0.4	0.025	0.12	0.4	0.01	1.7	0.05	0.025	2	0.25	0.1
1541155	14	0.05	0.05	0.05	7	0.47	0.011	30	6	0.12	52	0.029	10	0.37	0.04	0.18	1.8	0.005	1.8	0.05	0.025	2	0.25	0.1
1541155	15	0.05	0.05	0.05	7	0.47	0.011	29	5	0.11	54	0.03	10	0.4	0.048	0.2	1.8	0.005	1.9	0.05	0.025	2	0.25	0.1
1541156	12	0.05	0.05	0.05	12	0.45	0.024	30	5	0.19	84	0.052	10	0.56	0.038	0.31	0.8	0.005	2.4	0.1	0.025	3	0.25	0.1
1541157	14	0.05	0.05	0.05	5	0.61	0.012	27	6	0.05	41	0.013	10	0.32	0.029	0.14	0.5	0.01	1.6	0.05	0.025	1	0.25	0.1
1541158	10	0.05	0.05	0.05	5	0.3	0.012	29	5	0.06	61	0.021	10	0.41	0.022	0.17	0.6	0.01	1.4	0.05	0.025	2	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa4	mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pp	as_pp	au_ppl	th_pp	
1541159	17L00035	75	80	SR03	20	Dry	Rock	WHI17000267	3.65	0.03	1.6	4.4	2.1	15	0.05	1.7	1.9	245	0.93	0.25	25.7	18.2	
1541161	17L00035	80	85	SR03	20	Dry	Rock	WHI17000267	3.57	0.007	2.2	4.2	2.1	19	0.05	1.4	1.7	216	0.92	0.25	9.5	16.7	
1541162	17L00035	85	90	SR03	20	Dry	Rock	WHI17000267	3.39	0.008	2.6	5.5	2.1	18	0.05	1.5	2.1	273	1.02	0.25	5.2	17.6	
1541163	17L00035	90	95	SR03	20	Dry	Rock	WHI17000267	4.07	0.011	2.7	5	2.2	23	0.05	2.8	3.4	337	1.18	0.5	10	15	
1541164	17L00035	95	100	SR03	20	Dry	Rock	WHI17000267	3.68	0.009	8.3	3.6	2.3	14	0.05	1.4	1.9	238	0.85	0.25	6.9	14.4	
1541165	17L00035	100	105	SR03	20	Dry	Rock	WHI17000267	3.6	0.009	4.5	3	2.7	13	0.05	1.5	1.9	278	0.88	0.25	44.7	14.2	
1541166	17L00035	105	110	SR03	20	Dry	Rock	WHI17000267	3.46	0.006	2.7	4	2.9	12	0.05	1.6	2	218	0.81	0.25	3.9	16.6	
1541167	17L00035	110	115	SR03	20	Dry	Rock	WHI17000267	3.31	0.01	5.4	5.6	4.2	31	0.05	1.3	5.3	700	1.91	0.25	7.5	12	
1541168	17L00035	115	120	SR03	20	Dry	Rock	WHI17000267	3.85	0.005	1.3	4.6	2.7	49	0.05	1.6	8.3	882	2.87	0.25	5.6	6.8	
1541169	17L00035	120	125	SR03	20	Dry	Rock	WHI17000267	3.81	0.009	2	5	2.6	44	0.05	1.8	4.6	566	1.83	0.25	7.6	11.2	
1541170	17L00035	125	130	SR03	20	Dry	REP	WHI17000267	4.4	0.008	1.9	5.4	2.8	22	0.05	2	3.5	399	1.23	0.25	5.5	14.5	
1541170	17L00035	125	130	SR03	20	Dry	Rock	WHI17000267			1.8	5.5	2.6	20	0.05	1.8	3.1	388	1.2	0.25	5.4	14.2	
1541171	17L00035	130	135	SR03	20	Dry	Rock	WHI17000267	4.06	0.006	1.2	3.3	2.9	20	0.05	1.7	2.8	432	1.2	0.25	3.4	14.1	
1541172	17L00035	135	140	SR03	20	Dry	Rock	WHI17000267	4.21	0.005	1.2	4.4	2.3	24	0.05	2.7	3.6	454	1.43	0.25	5.1	14.4	
1541173	17L00035	140	145	SR03	20	Dry	Rock	WHI17000267	3.43	0.019	2.6	4.3	2.1	24	0.05	1.9	3.1	359	1.31	0.25	16.7	15.5	
1541174	17L00035	145	150	SR03	20	Dry	Rock	WHI17000267	4.2	0.011	4.7	3.5	1.8	19	0.05	1.9	3	357	1.18	0.6	6.7	13.5	
1541175	17L00035	150	155	SR03	20	Dry	Rock	WHI17000267	3.88	0.006	3.8	4.5	2.4	28	0.05	1.7	4	498	1.58	0.25	4	13.4	
1541176	17L00035	155	160	SR03	20	Dry	Rock	WHI17000267	3.92	0.0025	5.2	7.8	2.6	36	0.05	3.3	5.3	671	1.96	1.3	1.9	12	
1541177	17L00035	160	165	SR03	20	Dry	Rock	WHI17000267	4.2	0.0025	2.4	8.5	2.2	35	0.05	3.1	4.9	650	1.89	0.25	3.2	12.8	
1541178	17L00035	165	170	SR03	20	Dry	Rock	WHI17000267	4.74	0.008	1.8	6	2.8	41	0.05	2.3	5.2	605	1.82	0.25	4.4	11.1	
1541179	17L00035	170	175	SR03	20	Dry	Rock	WHI17000267	4.59	0.006	1.7	4.9	3.8	38	0.05	1.7	5.2	559	1.95	0.25	4.4	10.3	
1541181	17L00035	175	180	SR03	6	Dry	Rock	WHI17000267	1.43	0.015	2.7	5.2	4.4	40	0.05	2.1	4.9	595	2.01	0.7	8.7	10.6	
1541182	17L00035	180	185	SR03	10	Dry	Rock	WHI17000267	2.45	0.006	2.8	5.1	2.6	39	0.05	2.5	5.6	604	2.23	0.25	3	11	
1541183	17L00035	185	190	SR03	17	Dry	Rock	WHI17000267	3.46	0.005	1.5	3.1	4.3	41	0.05	2.3	5.8	610	2.08	0.25	3.3	10.9	
1541184	17L00035	190	195	SR03	20	Dry	Rock	WHI17000267	3.7	0.0025	1.5	6.5	2	36	0.05	2.4	5.2	500	2.01	0.25	3.3	9	
1541185	17L00035	195	200	SR03	20	Dry	Rock	WHI17000267	3.44	0.0025	2	5.9	1.8	35	0.05	2.6	5.5	539	2.05	0.25	2.5	10.8	
1541186	17L00035	200	205	SR03	20	Dry	Rock	WHI17000267	3.6	0.0025	1.9	3.2	1.4	33	0.05	1.9	4.1	509	1.88	0.25	3.2	9.7	
1541187	17L00035	205	210	SR03	20	Dry	Rock	WHI17000267	3.65	0.008	1.7	3	1.8	33	0.05	2.2	4.6	490	1.95	0.25	2.8	10.8	
1541188	17L00035	210	215	SR03	19	Dry	Rock	WHI17000267	3.3	0.0025	1.9	3.5	1.9	35	0.05	1.9	5	571	2.11	0.25	1.8	10.4	
1541189	17L00035	215	220	SR03	20	Dry	DUP	WHI17000267		0.0025	1.8	2.1	2	31	0.05	1.7	4.1	447	1.72	0.25	2.3	11.8	
1541189	17L00035	215	220	SR03	20	Dry	Rock	WHI17000267	3.69	0.0025	1.8	1.9	1.8	29	0.05	2.3	3.7	447	1.7	0.25	1.2	10.3	
1541190	17L00035	220	225	SR03	20	Dry	Rock	WHI17000267	4.29	0.0025	2	5.4	3.5	48	0.05	2.5	5.8	667	2.3	0.25	2.1	10.4	
1541191	17L00035	225	230	SR03	20	Dry	Rock	WHI17000267	4.23	0.0025	2.4	3.6	3.3	75	0.05	2	6	898	2.47	0.25	1.6	12.3	
1541192	17L00035	230	235	SR03	20	Dry	Rock	WHI17000267	4.08	0.0025	2.2	3.3	3.6	55	0.05	2.6	5.2	709	2.21	0.25	1.7	10.6	
1541192	17L00035	230	235	SR03	20	Dry	REP	WHI17000267		0.0025													
1541193	17L00035	235	240	SR03	20	Dry	REP	WHI17000267		0.0025													
1541193	17L00035	235	240	SR03	20	Dry	Rock	WHI17000267	4.2	0.0025	2.2	2.7	3.8	41	0.05	1.8	4.3	660	1.98	0.25	1.9	10.2	
1541194	17L00035	240	245	SR03	20	Dry	Rock	WHI17000267	3.42	0.0025	3.4	5.7	4.7	38	0.05	2	4.6	840	1.87	0.25	3.5	9.8	
1541195	17L00035	245	250	SR03	20	Dry	Rock	WHI17000267	3.59	0.0025	3.1	4.2	5.3	29	0.05	1.4	2.7	700	1.31	1.2	0.25	12.1	
1541196	17L00035	250	255	SR03	10	Dry	Rock	WHI17000267	2.35	0.0025	3.7	8.2	5	34	0.05	2.2	3.6	546	1.64	0.7	1.5	12.4	
1541197	17L00035	255	260	SR03	18	Dry	Rock	WHI17000267	3.27	0.0025	3.2	6	3.5	39	0.05	2.2	4.9	528	1.86	0.6	1.9	10.6	
1541198	17L00035	260	265	SR03	18	Dry	Rock	WHI17000267	3.77	0.0025	1.9	3.3	3.2	43	0.05	1.9	4.8	556	2.01	0.25	0.9	10	
1541199	17L00035	265	270	SR03	20	Dry	Rock	WHI17000267			3.4	4.1	3.2	42	0.05	1.9	5.5	602	2.17	0.25	0.6	9.8	

Appendix II

sample	sr_pi	cd_ppr	sbppm	bippm	vppm	capct	p_pct	la_cr	mg_pc	ba_pi	tipct	bppal	pc	na_pi	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga	seppm	teppr	
1541159	11	0.05	0.05	0.05	5	0.43	0.009	31	5	0.06	41	0.021	10	0.32	0.035	0.16	0.9	0.005	1.6	0.05	0.025	2	0.25	0.1
1541161	15	0.05	0.05	0.05	4	0.78	0.011	29	5	0.05	37	0.012	10	0.29	0.037	0.15	0.8	0.005	1.2	0.05	0.025	1	0.25	0.1
1541162	15	0.05	0.05	0.05	6	0.63	0.016	31	6	0.06	48	0.018	10	0.33	0.041	0.17	0.8	0.005	1.7	0.05	0.025	2	0.25	0.1
1541163	14	0.05	0.05	0.05	14	0.71	0.02	29	6	0.24	56	0.041	10	0.57	0.034	0.3	0.7	0.01	2.3	0.1	0.025	3	0.25	0.1
1541164	24	0.05	0.05	0.05	6	1.03	0.013	29	5	0.12	40	0.024	10	0.38	0.027	0.19	0.7	0.005	1.7	0.05	0.025	2	0.25	0.1
1541165	24	0.05	0.05	0.05	5	1.19	0.015	29	5	0.06	64	0.017	10	0.4	0.016	0.16	0.5	0.005	1.8	0.05	0.025	2	0.25	0.1
1541166	23	0.05	0.05	0.05	5	1.09	0.014	33	6	0.07	47	0.017	10	0.41	0.004	0.16	0.6	0.005	1.7	0.05	0.025	2	0.25	0.1
1541167	52	0.05	0.05	0.05	22	3.07	0.045	26	4	0.31	754	0.077	10	0.85	0.004	0.45	0.5	0.005	4.9	0.2	0.025	3	0.25	0.1
1541168	74	0.05	0.1	0.05	45	2.08	0.083	23	5	0.81	188	0.191	10	1.49	0.028	0.94	0.3	0.005	7.7	0.2	0.025	6	0.25	0.1
1541169	31	0.05	0.05	0.05	21	0.56	0.05	26	6	0.4	141	0.095	10	0.93	0.039	0.46	0.7	0.005	4.1	0.1	0.025	5	0.25	0.1
1541170	38	0.05	0.05	0.05	11	1.16	0.025	29	6	0.17	49	0.043	10	0.5	0.033	0.28	0.7	0.005	2.3	0.1	0.025	2	0.25	0.1
1541170	37	0.05	0.05	0.05	10	1.14	0.022	30	6	0.18	46	0.041	10	0.49	0.032	0.27	0.6	0.01	2.2	0.1	0.025	2	0.25	0.1
1541171	60	0.05	0.05	0.05	9	1.63	0.021	30	6	0.27	41	0.041	10	0.47	0.035	0.26	0.7	0.005	2.1	0.1	0.025	2	0.25	0.1
1541172	42	0.05	0.05	0.05	13	1.11	0.026	32	8	0.23	58	0.069	10	0.58	0.043	0.34	0.8	0.005	2.5	0.1	0.025	3	0.25	0.1
1541173	17	0.05	0.05	0.05	12	0.47	0.021	24	8	0.16	67	0.037	10	0.56	0.037	0.26	0.4	0.005	2.2	0.05	0.025	3	0.25	0.1
1541174	18	0.05	0.05	0.05	9	0.8	0.018	30	7	0.13	60	0.033	10	0.48	0.028	0.23	0.5	0.005	1.6	0.05	0.025	2	0.25	0.1
1541175	44	0.05	0.05	0.05	15	1.65	0.04	31	6	0.19	51	0.048	10	0.57	0.033	0.3	0.4	0.005	3.9	0.1	0.025	3	0.25	0.1
1541176	41	0.05	0.05	0.05	20	1.27	0.047	29	9	0.3	80	0.062	10	0.74	0.025	0.38	0.3	0.02	5.1	0.1	0.025	4	0.25	0.1
1541177	45	0.05	0.05	0.05	20	1.39	0.032	31	9	0.41	75	0.086	10	0.81	0.037	0.47	0.6	0.005	3.4	0.2	0.025	4	0.25	0.1
1541178	46	0.05	0.05	0.05	20	1.19	0.036	29	8	0.42	86	0.099	10	0.84	0.037	0.47	0.5	0.005	3.4	0.2	0.025	4	0.25	0.1
1541179	60	0.05	0.05	0.1	22	1.13	0.033	29	8	0.44	88	0.095	10	0.83	0.037	0.45	0.5	0.005	3.9	0.1	0.025	4	0.25	0.1
1541181	56	0.05	0.05	0.1	24	1.24	0.036	30	11	0.42	74	0.076	10	0.87	0.039	0.42	0.8	0.005	3.9	0.1	0.025	4	0.25	0.1
1541182	46	0.05	0.05	0.05	26	0.92	0.035	30	13	0.52	112	0.129	10	0.97	0.051	0.62	1.5	0.005	5	0.1	0.025	5	0.25	0.1
1541183	59	0.05	0.05	0.05	26	1.58	0.041	33	9	0.57	142	0.113	10	0.98	0.023	0.55	0.6	0.005	4.7	0.2	0.025	5	0.25	0.1
1541184	41	0.05	0.05	0.05	28	0.81	0.032	26	10	0.57	106	0.12	10	0.92	0.049	0.62	1	0.005	5.2	0.1	0.025	5	0.25	0.1
1541185	32	0.05	0.05	0.05	25	0.63	0.033	29	13	0.48	118	0.13	10	0.96	0.045	0.66	1.2	0.005	4.4	0.2	0.025	5	0.25	0.1
1541186	26	0.05	0.05	0.05	22	0.53	0.034	25	9	0.53	109	0.122	10	0.92	0.053	0.62	0.8	0.005	4	0.1	0.025	4	0.25	0.1
1541187	30	0.05	0.05	0.05	24	0.51	0.032	29	10	0.45	137	0.133	10	0.9	0.05	0.6	0.9	0.005	4.3	0.2	0.025	4	0.25	0.1
1541188	23	0.05	0.05	0.05	25	0.34	0.037	28	9	0.44	182	0.131	10	0.95	0.053	0.6	0.8	0.005	4.7	0.1	0.025	5	0.25	0.1
1541189	40	0.05	0.05	0.05	19	0.75	0.027	30	10	0.37	116	0.114	10	0.77	0.058	0.49	1.1	0.005	4.2	0.1	0.025	4	0.25	0.1
1541189	37	0.05	0.05	0.05	19	0.75	0.025	27	10	0.37	103	0.098	10	0.74	0.053	0.48	1.1	0.005	3.7	0.05	0.025	4	0.25	0.1
1541190	66	0.05	0.05	0.05	29	2.1	0.038	30	8	0.82	134	0.108	10	1.03	0.038	0.59	0.7	0.005	5.9	0.1	0.025	5	0.25	0.1
1541191	86	0.05	0.05	0.05	31	3.65	0.054	35	8	0.81	125	0.109	10	1.15	0.055	0.62	0.3	0.005	7.1	0.2	0.025	6	0.25	0.1
1541192	85	0.05	0.05	0.05	27	2.22	0.038	32	10	0.66	212	0.099	10	0.97	0.049	0.53	0.5	0.005	5.4	0.2	0.025	5	0.25	0.1
1541192																								
1541193																								
1541193	61	0.05	0.05	0.05	23	1.79	0.038	31	9	0.38	102	0.104	10	0.85	0.049	0.51	0.4	0.005	4.9	0.2	0.025	4	0.25	0.1
1541194	49	0.05	0.05	0.05	18	1.26	0.034	34	8	0.23	172	0.063	10	0.7	0.019	0.34	0.5	0.005	4.1	0.1	0.025	4	0.25	0.1
1541195	48	0.05	0.05	0.05	9	1	0.027	33	7	0.13	146	0.013	10	0.55	0.007	0.18	0.4	0.02	3.1	0.1	0.025	2	0.25	0.1
1541196	33	0.05	0.05	0.05	14	0.52	0.035	32	9	0.19	139	0.02	10	0.7	0.011	0.23	0.5	0.005	3.9	0.05	0.025	3	0.25	0.1
1541197	54	0.05	0.1	0.05	17	1.4	0.042	30	9	0.33	62	0.014	10	0.74	0.023	0.2	0.3	0.005	3.4	0.05	0.025	3	0.25	0.1
1541198	49	0.05	0.05	0.05	22	1.44	0.039	29	8	0.47	64	0.065	10	0.97	0.041	0.38	0.4	0.005	3.7	0.1	0.025	5	0.25	0.1
1541199	55	0.05	0.05	0.05	30	1.37	0.041	27	8	0.63	116	0.112	10	1.11	0.043	0.59	0.4	0.005	4.5	0.2	0.025	5	0.25	0.1

Appendix II

sample	hole_id	from	toft	tech	recc	cond	type	job_number	wgt_kg	au_fa	4mo_pp	cu_pp	pb_pp	zn_pp	ag_pp	ni_pp	co_pp	mn_pp	fe_pp	pc	as_pp	au_pp	th_pp
1541199	17L00035	265	270	SR03	20	Dry	REP	WHI17000267	4.09	0.0025	3.3	4.6	3.1	40	0.05	2.1	5.9	632	2.16	0.25	1.2	10	
1541201	17L00035	270	275	SR03	20	Dry	Rock	WHI17000267	3.56	0.0025	2.1	3.2	3.7	36	0.05	1.6	5.3	606	2.06	0.25	0.6	9.6	
1541202	17L00035	275	280	SR03	20	Dry	Rock	WHI17000267	4.96	0.0025	1.7	2.7	3.8	38	0.05	1.9	4.8	619	1.95	0.6	0.8	9.1	
1541203	17L00035	280	285	SR03	20	Dry	Rock	WHI17000267	4.61	0.0025	15.5	5.5	5.5	38	0.05	2.1	4.4	540	1.7	0.25	0.25	12	
1541204	17L00035	285	290	SR03	20	Dry	Rock	WHI17000267	3.95	0.0025	33.7	6.4	6.3	45	0.05	1.8	4.7	520	1.81	0.25	1.1	12.6	
1541205	17L00035	290	295	SR03	20	Dry	Rock	WHI17000267	3.63	0.0025	45.1	10.3	9.7	41	0.05	1.8	5.1	542	1.92	0.25	1	10.4	
1541206	17L00035	295	300	SR03	20	Dry	Rock	WHI17000267	3.9	0.0025	36.2	14.4	9.5	37	0.1	1.9	7.7	548	1.91	0.5	0.8	11	
1541160	17L00035			SR03			Coarse Blar	WHI17000267	0.14	0.018	0.3	1.6	4.4	20	0.1	3.7	0.8	109	0.18	2.7	4.4	0.4	
1541180	17L00035			SR03			CDN-GS-5U	WHI17000267	0.09	4.983	8.3	199	24.3	78	0.8	14.3	11.6	609	4.29	12.1	4596	3.1	
1541200	17L00035			SR03			Coarse Blar	WHI17000267	0.16	0.0025	0.5	2.4	4.4	25	0.1	2.6	0.9	141	0.27	3.1	2.2	0.7	

Appendix II

sample	sr_p	cd_ppr	sbppm	bipppm	vppm	capct	p_pct	la_l	cr_l	mg_pct	ba_ppr	tipct	bppr	al_pct	na_pct	k_pct	w_ppm	hgppm	sc_ppr	tlppm	s_pct	ga_l	seppm	teppr
1541199	58	0.05	0.05	0.05	30	1.37	0.041	30	8	0.63	113	0.116	10	1.1	0.042	0.59	0.4	0.005	4.3	0.2	0.025	5	0.25	0.1
1541201	74	0.05	0.05	0.05	27	2.1	0.034	28	7	0.56	100	0.105	10	1.02	0.027	0.52	0.4	0.005	4.6	0.1	0.025	5	0.25	0.1
1541202	74	0.05	0.05	0.05	23	2.02	0.034	29	8	0.49	136	0.091	10	0.95	0.041	0.45	0.3	0.005	4.4	0.1	0.025	5	0.25	0.1
1541203	55	0.1	0.05	0.3	20	1.47	0.031	28	7	0.41	108	0.087	10	0.8	0.043	0.41	0.7	0.005	3.5	0.1	0.025	5	0.25	0.1
1541204	59	0.1	0.05	0.3	21	1.21	0.032	29	8	0.38	77	0.081	10	0.82	0.045	0.4	0.8	0.005	3.5	0.1	0.025	4	0.25	0.1
1541205	89	0.2	0.05	0.6	24	1.81	0.04	28	8	0.37	568	0.053	10	0.7	0.026	0.32	0.6	0.005	3.6	0.1	0.025	4	0.25	0.1
1541206	91	0.1	0.05	0.6	24	2	0.037	28	8	0.33	463	0.055	10	0.76	0.019	0.33	0.5	0.005	4.3	0.1	0.06	4	0.25	0.1
1541160	272	0.3	1.4	0.05	15	21.81	0.019	2	3	10.48	16	0.002	10	0.08	5E-04	0.01	0.2	0.005	0.9	0.05	0.025	0.5	0.25	0.1
1541180	76	0.2	4.3	0.5	105	0.98	0.066	8	20	0.88	136	0.153	10	1.78	0.195	0.24	5.2	0.17	3.3	0.05	0.025	5	0.25	0.1
1541200	261	0.3	1.4	0.05	16	20.33	0.022	3	3	10.04	21	0.008	10	0.17	0.003	0.05	0.2	0.005	1.2	0.05	0.025	0.5	0.25	0.1

**Appendix III:
Geochemical Assay Certificates**



BUREAU VERITAS MINERAL LABORATORIES
Canada

www.bureauveritas.com/um

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

Client: **White Gold Corp.**
Box 70
Dawson Yukon Y0B 1G0 Canada

Submitted By: Jodie Gibson
Receiving Lab: Canada-Whitehorse
Received: June 30, 2017
Report Date: July 25, 2017
Page: 1 of 5

CERTIFICATE OF ANALYSIS

WHI17000193.1

CLIENT JOB INFORMATION

Project: LOO
Shipment ID: LOO-20170629-001-ROCK
P.O. Number
Number of Samples: 91

SAMPLE DISPOSAL

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

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	89	Crush, split and pulverize 250 g rock to 200 mesh			WHI
SLBHP	2	Sort, label and box pulps			WHI
FA430	91	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	91	Environmental disposal charge-Fire assay lead waste			VAN
AQ200	91	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	91	Per sample shipping charges for branch shipments			VAN
FA530	1	Lead collection fire assay 30G fusion - Grav finish	30	Completed	VAN

ADDITIONAL COMMENTS

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

CC: Isaac Fage
Shawn Ryan
Greg Dawson



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



Bureau Veritas Commodities Canada Ltd.

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Project: LOO
Report Date: July 25, 2017

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CERTIFICATE OF ANALYSIS

WHI17000193.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540676	Rock	3.02	<0.005	0.6	6.9	1.9	35	<0.1	2.3	3.9	383	1.55	<0.5	<0.5	11.1	26	<0.1	<0.1	<0.1	20	0.93
1540677	Rock	3.00	<0.005	0.5	2.0	2.1	32	<0.1	1.8	3.4	492	1.61	<0.5	<0.5	11.0	25	<0.1	<0.1	<0.1	18	0.79
1540678	Rock	3.66	<0.005	0.9	4.4	2.1	25	<0.1	1.3	2.7	343	1.32	<0.5	0.7	15.0	23	<0.1	<0.1	<0.1	11	0.78
1540679	Rock	4.02	<0.005	0.6	2.4	2.3	27	<0.1	2.0	2.5	407	1.26	<0.5	<0.5	12.9	23	<0.1	<0.1	<0.1	11	0.90
1540680	Rock	0.12	<0.005	0.3	1.2	3.9	19	0.1	3.0	0.5	121	0.21	2.7	3.7	0.8	269	0.2	1.3	<0.1	15	17.71
1540681	Rock	1.63	<0.005	3.6	5.0	2.0	20	<0.1	1.1	1.9	252	1.07	0.7	<0.5	14.7	19	<0.1	<0.1	<0.1	6	0.55
1540682	Rock	3.80	<0.005	0.7	2.3	2.2	25	<0.1	0.9	1.9	234	1.08	<0.5	<0.5	12.2	18	<0.1	<0.1	<0.1	9	0.96
1540683	Rock	2.82	<0.005	0.7	3.6	2.6	21	<0.1	0.9	2.0	302	0.99	0.5	<0.5	12.5	22	<0.1	<0.1	<0.1	7	1.32
1540684	Rock	3.32	0.014	0.6	2.7	3.3	23	<0.1	1.1	1.7	321	0.86	<0.5	12.3	8.4	33	<0.1	<0.1	<0.1	9	2.53
1540685	Rock	3.41	<0.005	0.6	3.3	2.9	24	<0.1	1.1	2.1	297	1.06	<0.5	1.9	12.2	38	<0.1	<0.1	<0.1	11	1.77
1540686	Rock	3.57	<0.005	0.8	2.5	3.7	24	<0.1	0.8	2.1	312	1.26	<0.5	0.9	13.6	41	<0.1	<0.1	<0.1	10	2.28
1540687	Rock	3.71	<0.005	0.7	2.7	2.9	19	<0.1	1.1	1.8	325	0.99	0.5	<0.5	13.8	34	<0.1	<0.1	<0.1	7	2.01
1540688	Rock	3.37	0.015	1.0	3.1	2.7	18	<0.1	0.9	1.8	306	1.02	<0.5	13.0	13.8	26	<0.1	<0.1	<0.1	7	1.40
1540689	Rock	3.56	<0.005	0.8	2.1	2.9	25	<0.1	1.2	3.0	466	1.47	<0.5	0.6	14.5	42	<0.1	<0.1	<0.1	14	1.80
1540690	Rock	3.09	<0.005	0.8	5.7	3.7	29	<0.1	3.1	3.5	508	1.45	<0.5	<0.5	12.2	64	<0.1	<0.1	<0.1	17	2.69
1540691	Rock	3.30	<0.005	0.9	6.1	3.8	34	<0.1	6.8	4.8	792	1.77	0.5	<0.5	9.5	70	<0.1	<0.1	<0.1	25	4.37
1540692	Rock	3.60	<0.005	1.7	2.0	3.0	45	<0.1	1.3	2.1	489	1.23	<0.5	0.9	10.7	28	<0.1	<0.1	<0.1	9	2.07
1540693	Rock	3.58	<0.005	1.8	5.4	3.3	27	<0.1	1.1	2.2	359	1.21	<0.5	<0.5	13.1	25	<0.1	<0.1	<0.1	10	1.61
1540694	Rock	3.77	<0.005	1.5	3.9	3.1	23	<0.1	1.3	1.9	360	1.18	<0.5	<0.5	11.7	29	<0.1	<0.1	<0.1	11	1.52
1540695	Rock	3.70	0.014	1.3	3.0	2.7	17	<0.1	1.2	1.7	258	0.91	1.0	11.8	9.1	28	<0.1	0.1	<0.1	7	1.41
1540696	Rock	3.86	0.021	1.0	5.0	2.1	23	<0.1	1.3	2.0	299	1.16	<0.5	1.8	11.7	29	<0.1	<0.1	<0.1	14	1.11
1540697	Rock	4.25	<0.005	1.0	10.4	2.2	30	<0.1	2.0	2.9	322	1.29	0.7	<0.5	10.7	35	<0.1	<0.1	<0.1	16	1.15
1540698	Rock	3.39	<0.005	1.0	4.1	1.3	30	<0.1	1.1	3.0	421	1.51	0.6	<0.5	11.7	29	<0.1	<0.1	<0.1	17	0.90
1540699	Rock	4.04	<0.005	0.9	3.8	2.2	22	<0.1	1.3	1.8	284	0.95	<0.5	<0.5	5.9	30	<0.1	<0.1	<0.1	7	1.11
1540700	Rock Pulp	0.09	5.305	8.3	191.7	22.8	77	0.9	14.7	11.2	576	4.22	11.1	5125.6	2.7	75	0.1	4.0	0.5	100	0.91
1540701	Rock	4.16	<0.005	1.0	3.0	3.1	38	<0.1	1.1	1.9	358	1.17	<0.5	1.2	8.2	29	<0.1	0.2	<0.1	10	1.46
1540702	Rock	3.14	0.014	0.9	7.7	2.6	29	<0.1	1.2	1.9	258	1.07	<0.5	9.1	10.1	25	<0.1	<0.1	<0.1	10	0.92
1540703	Rock	3.08	<0.005	1.1	3.5	2.6	30	<0.1	1.5	2.3	292	1.19	<0.5	12.6	12.0	25	<0.1	<0.1	<0.1	10	1.09
1540704	Rock	3.52	<0.005	0.8	4.1	2.3	34	<0.1	1.3	2.4	333	1.18	<0.5	1.1	11.9	29	<0.1	<0.1	<0.1	12	1.23
1540705	Rock	3.61	<0.005	0.9	2.9	2.9	31	<0.1	0.8	2.5	369	1.16	<0.5	0.5	11.6	46	<0.1	<0.1	<0.1	9	1.62



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Project: LOO
Report Date: July 25, 2017

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CERTIFICATE OF ANALYSIS

WHI17000193.1

Method Analyte Unit MDL	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA530
	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	Au gm/t
1540676	Rock	0.027	22	11	0.46	65	0.079	<20	0.79	0.036	0.42	0.8	<0.01	2.6	0.1	<0.05	5	<0.5	<0.2
1540677	Rock	0.029	25	4	0.41	70	0.091	<20	0.85	0.027	0.47	0.7	<0.01	2.9	0.2	<0.05	5	<0.5	<0.2
1540678	Rock	0.021	29	7	0.28	46	0.055	<20	0.61	0.037	0.34	0.9	<0.01	1.8	0.1	<0.05	4	<0.5	<0.2
1540679	Rock	0.020	25	5	0.29	47	0.046	<20	0.61	0.024	0.29	0.8	<0.01	1.9	0.1	<0.05	4	<0.5	<0.2
1540680	Rock	0.017	3	3	11.18	16	0.004	<20	0.14	0.003	0.03	0.2	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
1540681	Rock	0.017	27	3	0.15	29	0.028	<20	0.40	0.028	0.18	0.6	<0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
1540682	Rock	0.019	23	6	0.16	36	0.017	<20	0.45	0.024	0.17	0.6	<0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
1540683	Rock	0.018	24	3	0.12	49	0.022	<20	0.38	0.017	0.16	0.7	<0.01	1.7	<0.1	<0.05	2	<0.5	<0.2
1540684	Rock	0.036	17	5	0.07	65	0.007	<20	0.34	0.025	0.15	0.4	<0.01	1.0	<0.1	<0.05	1	<0.5	<0.2
1540685	Rock	0.023	24	3	0.14	48	0.031	<20	0.45	0.014	0.21	0.5	<0.01	2.1	<0.1	<0.05	2	<0.5	<0.2
1540686	Rock	0.021	25	5	0.13	62	0.027	<20	0.48	0.012	0.19	0.4	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
1540687	Rock	0.016	26	3	0.09	47	0.022	<20	0.39	0.005	0.16	0.5	<0.01	2.2	<0.1	<0.05	2	<0.5	<0.2
1540688	Rock	0.015	26	5	0.09	57	0.021	<20	0.39	0.002	0.16	0.5	<0.01	2.0	<0.1	<0.05	2	<0.5	<0.2
1540689	Rock	0.024	29	4	0.23	108	0.060	<20	0.71	0.013	0.37	0.5	<0.01	3.4	0.2	<0.05	4	<0.5	<0.2
1540690	Rock	0.022	22	8	0.23	81	0.047	<20	0.64	0.021	0.30	0.5	<0.01	3.0	0.1	<0.05	3	<0.5	<0.2
1540691	Rock	0.029	22	21	0.38	85	0.041	<20	0.62	0.015	0.27	0.5	<0.01	4.4	0.1	<0.05	4	<0.5	<0.2
1540692	Rock	0.016	23	6	0.16	212	0.026	<20	0.51	0.014	0.19	0.6	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
1540693	Rock	0.015	25	4	0.13	86	0.034	<20	0.44	0.002	0.20	0.6	<0.01	2.2	0.1	<0.05	3	<0.5	<0.2
1540694	Rock	0.017	23	7	0.16	130	0.034	<20	0.52	0.021	0.21	0.5	<0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
1540695	Rock	0.017	21	5	0.12	51	0.021	<20	0.37	0.030	0.18	0.6	<0.01	1.6	<0.1	<0.05	2	<0.5	<0.2
1540696	Rock	0.019	24	8	0.19	55	0.042	<20	0.49	0.035	0.25	0.7	<0.01	2.2	0.1	<0.05	3	<0.5	<0.2
1540697	Rock	0.020	20	11	0.30	65	0.042	<20	0.62	0.044	0.25	0.6	<0.01	2.6	0.1	<0.05	4	<0.5	<0.2
1540698	Rock	0.022	25	6	0.31	66	0.076	<20	0.66	0.033	0.38	0.8	<0.01	2.8	0.1	<0.05	4	<0.5	<0.2
1540699	Rock	0.020	14	8	0.19	63	0.007	<20	0.43	0.042	0.13	0.5	<0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
1540700	Rock Pulp	0.061	7	19	0.86	132	0.145	<20	1.74	0.179	0.22	5.1	0.15	3.1	<0.1	<0.05	5	<0.5	<0.2
1540701	Rock	0.018	17	5	0.20	163	0.033	<20	0.50	0.030	0.22	0.6	<0.01	1.6	<0.1	<0.05	3	<0.5	<0.2
1540702	Rock	0.022	19	8	0.18	75	0.026	<20	0.45	0.041	0.18	0.6	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
1540703	Rock	0.018	25	6	0.18	63	0.033	<20	0.43	0.036	0.20	0.9	<0.01	2.1	<0.1	<0.05	2	<0.5	<0.2
1540704	Rock	0.023	25	7	0.19	106	0.044	<20	0.55	0.033	0.27	0.6	<0.01	2.2	0.1	<0.05	3	<0.5	<0.2
1540705	Rock	0.019	24	5	0.19	80	0.035	<20	0.44	0.029	0.21	0.5	<0.01	2.0	<0.1	<0.05	2	<0.5	<0.2



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Project: LOO
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CERTIFICATE OF ANALYSIS

WHI17000193.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540706	Rock	3.60	<0.005	1.3	6.4	2.7	36	<0.1	2.0	3.4	442	1.45	<0.5	1.3	11.1	49	<0.1	<0.1	<0.1	21	1.76
1540707	Rock	3.09	<0.005	0.8	3.9	2.3	29	<0.1	1.3	3.0	393	1.34	<0.5	2.1	13.2	44	<0.1	<0.1	<0.1	13	1.66
1540708	Rock	3.52	<0.005	1.7	33.5	1.8	44	<0.1	1.1	2.2	257	1.13	<0.5	1.6	14.2	18	<0.1	<0.1	0.4	7	0.53
1540709	Rock	3.27	<0.005	1.6	10.9	2.8	48	<0.1	2.4	3.6	401	1.44	<0.5	1.3	13.6	36	<0.1	<0.1	0.1	18	1.41
1540710	Rock	3.47	<0.005	1.3	3.5	1.6	26	<0.1	1.3	1.9	261	1.03	<0.5	1.1	13.7	19	<0.1	<0.1	<0.1	9	0.71
1540711	Rock	3.17	<0.005	1.6	3.8	1.9	37	<0.1	1.4	1.9	235	1.02	<0.5	<0.5	9.7	27	<0.1	<0.1	<0.1	14	0.75
1540712	Rock	3.24	<0.005	1.2	3.0	1.8	30	<0.1	1.2	3.1	410	1.48	<0.5	<0.5	11.2	27	<0.1	<0.1	<0.1	16	0.85
1540713	Rock	3.13	<0.005	1.2	5.7	2.3	34	<0.1	1.3	4.3	526	1.83	<0.5	<0.5	8.4	35	<0.1	<0.1	<0.1	20	1.61
1540714	Rock	3.28	<0.005	1.6	2.3	1.7	35	<0.1	1.1	4.0	468	1.83	<0.5	<0.5	8.5	27	<0.1	<0.1	<0.1	20	1.49
1540715	Rock	3.48	<0.005	1.3	5.5	3.1	28	<0.1	0.9	3.3	482	1.48	<0.5	0.7	10.0	32	<0.1	<0.1	<0.1	12	1.99
1540716	Rock	2.87	>10	2.0	10.8	5.3	29	6.6	1.2	4.4	361	2.61	<0.5	11987.4	8.3	41	<0.1	0.1	5.5	9	0.53
1540717	Rock	3.87	2.310	1.7	4.0	8.3	27	1.2	0.9	3.6	738	1.54	<0.5	1739.8	7.3	91	<0.1	0.1	0.6	9	5.48
1540718	Rock	3.23	0.240	1.7	6.6	5.8	28	0.1	0.9	3.1	524	1.53	<0.5	226.1	9.6	38	<0.1	0.1	0.1	12	2.46
1540719	Rock	3.61	0.117	1.0	3.6	2.8	37	<0.1	1.3	3.9	400	1.63	<0.5	129.3	9.7	25	<0.1	0.2	<0.1	13	0.93
1540720	Rock	0.16	0.102	0.4	1.4	4.6	20	0.2	3.0	0.6	112	0.17	2.6	100.3	0.4	283	0.3	1.5	<0.1	15	18.51
1540721	Rock	3.58	6.245	1.1	10.0	4.2	30	3.3	1.1	4.4	390	2.05	0.5	6049.7	9.9	42	<0.1	0.3	4.0	11	0.93
1540722	Rock	3.56	0.152	1.1	5.8	3.0	25	<0.1	1.3	2.9	457	1.43	<0.5	148.7	10.6	40	<0.1	0.3	0.1	8	1.44
1540723	Rock	3.46	0.259	1.5	12.9	4.3	30	0.2	1.0	3.7	452	1.56	0.7	256.7	8.3	47	<0.1	0.2	0.1	11	1.66
1540724	Rock	3.18	0.082	1.3	14.2	3.7	36	<0.1	1.3	4.1	524	1.75	<0.5	72.5	8.0	61	<0.1	0.2	<0.1	16	1.96
1540725	Rock	3.30	0.061	1.7	3.5	3.4	35	<0.1	1.2	4.0	501	1.62	<0.5	62.1	8.5	54	<0.1	0.1	<0.1	18	1.84
1540726	Rock	2.76	0.112	1.8	3.3	2.4	36	<0.1	1.7	4.2	441	1.75	<0.5	107.1	8.6	30	<0.1	0.2	<0.1	18	0.93
1540727	Rock	2.61	0.051	2.3	3.6	1.8	38	<0.1	2.1	4.5	472	2.01	<0.5	46.7	9.7	28	<0.1	0.1	<0.1	22	0.80
1540728	Rock	4.12	0.053	2.5	4.4	2.4	33	<0.1	2.0	3.9	440	1.81	<0.5	48.5	7.9	35	<0.1	<0.1	<0.1	20	1.12
1540729	Rock	4.03	0.058	2.1	4.1	1.8	34	<0.1	1.6	4.7	455	1.85	<0.5	71.0	10.3	27	<0.1	<0.1	<0.1	20	0.69
1540730	Rock	4.76	0.025	1.9	5.2	2.0	38	<0.1	1.7	4.8	506	1.99	<0.5	25.0	9.4	30	<0.1	<0.1	<0.1	24	0.80
1540731	Rock	3.23	0.053	1.8	6.5	1.9	38	<0.1	2.0	4.7	426	1.83	<0.5	44.6	10.3	26	<0.1	<0.1	<0.1	20	0.55
1540732	Rock	3.70	0.016	1.8	4.2	1.8	39	<0.1	1.7	5.1	469	1.91	<0.5	100.9	9.9	30	<0.1	<0.1	<0.1	22	0.67
1540733	Rock	3.00	0.017	1.9	3.1	1.5	34	<0.1	2.4	4.5	464	1.86	<0.5	15.7	8.3	28	<0.1	<0.1	<0.1	21	0.58
1540734	Rock	3.32	0.026	1.6	5.9	1.5	35	<0.1	1.3	4.5	464	1.88	<0.5	21.0	9.1	28	<0.1	<0.1	<0.1	23	0.60
1540735	Rock	3.28	0.016	1.5	6.3	1.8	39	<0.1	2.7	5.8	483	1.95	<0.5	14.4	8.2	36	<0.1	<0.1	<0.1	25	0.85



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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA530
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9	
1540706	Rock	0.029	25	10	0.29	79	0.063	<20	0.69	0.032	0.37	0.6	<0.01	3.4	0.2	<0.05	4	<0.5	<0.2	
1540707	Rock	0.022	29	5	0.20	47	0.056	<20	0.55	0.027	0.30	0.6	<0.01	2.8	0.1	<0.05	3	<0.5	<0.2	
1540708	Rock	0.014	25	8	0.15	37	0.035	<20	0.44	0.040	0.24	1.1	<0.01	1.7	<0.1	<0.05	3	<0.5	<0.2	
1540709	Rock	0.023	25	10	0.25	65	0.049	<20	0.55	0.022	0.29	0.8	<0.01	3.0	0.1	<0.05	3	<0.5	<0.2	
1540710	Rock	0.016	25	8	0.19	42	0.035	<20	0.44	0.034	0.22	1.1	<0.01	1.7	<0.1	<0.05	3	<0.5	<0.2	
1540711	Rock	0.020	19	6	0.20	40	0.032	<20	0.44	0.037	0.20	1.0	<0.01	1.7	<0.1	<0.05	3	<0.5	<0.2	
1540712	Rock	0.025	23	8	0.33	60	0.079	<20	0.71	0.039	0.42	0.9	<0.01	3.1	0.2	<0.05	4	<0.5	<0.2	
1540713	Rock	0.031	25	5	0.38	108	0.084	<20	0.74	0.025	0.47	0.5	<0.01	3.8	0.1	<0.05	4	<0.5	<0.2	
1540714	Rock	0.028	23	7	0.35	81	0.075	<20	0.73	0.037	0.42	0.4	<0.01	3.8	<0.1	<0.05	4	<0.5	<0.2	
1540715	Rock	0.026	26	5	0.13	68	0.022	<20	0.42	0.022	0.20	0.4	<0.01	3.3	<0.1	<0.05	2	<0.5	<0.2	
1540716	Rock	0.028	20	7	0.08	101	0.005	<20	0.37	0.035	0.18	0.4	1.56	2.3	<0.1	0.10	1	<0.5	12.8	11.5
1540717	Rock	0.026	28	4	0.08	187	0.004	<20	0.28	0.012	0.13	0.2	0.23	2.7	<0.1	<0.05	<1	<0.5	1.0	
1540718	Rock	0.030	30	6	0.10	111	0.013	<20	0.41	0.002	0.17	0.3	0.04	3.6	<0.1	<0.05	1	<0.5	<0.2	
1540719	Rock	0.031	27	6	0.31	53	0.017	<20	0.67	0.024	0.18	0.4	0.02	2.7	<0.1	<0.05	3	<0.5	<0.2	
1540720	Rock	0.014	2	3	11.77	17	0.002	<20	0.11	<0.001	0.02	0.2	0.02	0.6	<0.1	<0.05	<1	<0.5	<0.2	
1540721	Rock	0.029	26	6	0.26	61	0.003	<20	0.64	0.030	0.17	0.3	0.87	2.7	<0.1	0.07	3	<0.5	7.0	
1540722	Rock	0.025	29	8	0.24	63	0.004	<20	0.62	0.033	0.22	0.2	0.03	2.8	<0.1	<0.05	3	<0.5	<0.2	
1540723	Rock	0.028	23	6	0.26	52	0.009	<20	0.63	0.029	0.17	0.2	0.03	3.0	<0.1	<0.05	3	<0.5	0.2	
1540724	Rock	0.033	26	9	0.28	144	0.023	<20	0.68	0.030	0.18	0.3	0.02	4.2	<0.1	<0.05	3	<0.5	<0.2	
1540725	Rock	0.029	21	6	0.28	64	0.046	<20	0.65	0.017	0.25	0.5	0.01	3.4	<0.1	<0.05	3	<0.5	<0.2	
1540726	Rock	0.029	24	12	0.35	59	0.050	<20	0.73	0.034	0.28	0.4	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2	
1540727	Rock	0.030	25	14	0.40	79	0.089	<20	0.82	0.036	0.45	0.7	<0.01	2.9	0.1	<0.05	4	<0.5	<0.2	
1540728	Rock	0.028	21	18	0.36	76	0.068	<20	0.74	0.045	0.37	1.5	0.01	2.4	0.1	<0.05	4	<0.5	<0.2	
1540729	Rock	0.033	24	10	0.41	83	0.092	<20	0.83	0.041	0.44	1.3	0.01	2.4	0.2	<0.05	4	<0.5	<0.2	
1540730	Rock	0.033	27	12	0.45	92	0.096	<20	0.93	0.050	0.48	0.9	<0.01	2.7	0.2	<0.05	4	<0.5	<0.2	
1540731	Rock	0.033	24	12	0.44	85	0.079	<20	0.83	0.047	0.41	1.3	0.01	2.2	0.1	<0.05	4	<0.5	<0.2	
1540732	Rock	0.031	26	9	0.47	101	0.093	<20	0.95	0.051	0.49	0.9	<0.01	2.3	0.2	<0.05	5	<0.5	<0.2	
1540733	Rock	0.031	23	12	0.42	97	0.099	<20	0.88	0.049	0.50	0.7	<0.01	2.2	0.2	<0.05	4	<0.5	<0.2	
1540734	Rock	0.029	25	9	0.42	110	0.102	<20	0.92	0.046	0.54	0.9	<0.01	2.7	0.2	<0.05	4	<0.5	<0.2	
1540735	Rock	0.043	23	13	0.53	89	0.073	<20	0.97	0.048	0.41	0.5	<0.01	2.4	0.1	<0.05	4	<0.5	<0.2	



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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540736	Rock	3.21	0.018	1.7	6.6	1.6	38	<0.1	1.5	4.8	450	1.84	<0.5	22.3	9.2	31	<0.1	<0.1	<0.1	21	0.64
1540737	Rock	3.28	0.017	1.6	5.1	1.7	40	<0.1	1.6	4.5	441	1.82	<0.5	15.9	8.4	31	<0.1	<0.1	<0.1	21	0.89
1540738	Rock	3.50	0.014	1.5	3.6	1.7	40	<0.1	1.5	4.7	519	1.88	<0.5	13.3	9.3	32	<0.1	<0.1	<0.1	19	0.98
1540739	Rock	3.40	0.017	1.6	1.8	1.5	39	<0.1	1.5	4.2	482	1.87	<0.5	20.0	8.8	21	<0.1	<0.1	<0.1	18	0.56
1540740	Rock Pulp	0.09	0.476	6.4	281.9	15.6	51	0.5	113.7	15.7	464	2.87	169.0	387.2	3.2	75	0.2	1.4	0.1	64	1.74
1540741	Rock	3.60	0.028	1.5	2.2	2.0	32	<0.1	1.4	3.1	362	1.43	<0.5	26.1	10.5	20	<0.1	<0.1	<0.1	13	0.62
1540742	Rock	3.36	<0.005	0.8	5.0	1.4	22	<0.1	3.2	2.2	295	1.22	<0.5	1.4	11.4	6	<0.1	<0.1	<0.1	10	0.08
1540743	Rock	5.93	<0.005	0.6	5.3	1.6	31	<0.1	2.0	3.0	359	1.45	<0.5	2.1	10.8	12	<0.1	<0.1	<0.1	17	0.23
1540744	Rock	5.94	<0.005	1.0	5.0	1.8	17	<0.1	1.8	1.9	227	0.96	<0.5	1.3	11.7	13	<0.1	<0.1	<0.1	7	0.39
1540745	Rock	3.25	<0.005	0.8	4.3	3.2	17	<0.1	0.9	2.0	324	1.13	<0.5	1.0	13.0	12	<0.1	<0.1	<0.1	7	1.00
1540746	Rock	4.08	<0.005	0.5	3.7	1.9	15	<0.1	1.0	1.8	246	1.06	<0.5	<0.5	13.4	13	<0.1	<0.1	<0.1	7	0.38
1540747	Rock	3.62	<0.005	0.7	5.1	2.0	17	<0.1	1.4	2.1	261	1.15	<0.5	<0.5	14.7	17	<0.1	<0.1	<0.1	9	0.43
1540748	Rock	3.98	<0.005	0.5	3.3	2.3	20	<0.1	0.6	1.6	241	0.90	<0.5	<0.5	10.1	24	<0.1	<0.1	<0.1	7	0.79
1540749	Rock	4.23	<0.005	0.4	4.6	2.0	27	<0.1	1.1	1.8	253	1.12	<0.5	<0.5	12.6	22	<0.1	<0.1	<0.1	9	0.60
1540750	Rock	4.15	<0.005	0.6	3.3	2.4	23	<0.1	1.1	1.9	269	1.06	<0.5	0.7	10.2	26	<0.1	<0.1	<0.1	9	0.69
1540751	Rock	3.59	<0.005	0.4	3.7	1.6	19	<0.1	1.1	1.9	262	1.12	<0.5	1.3	13.3	17	<0.1	<0.1	<0.1	9	0.37
1540752	Rock	3.87	0.064	0.6	6.3	2.9	18	<0.1	1.1	2.5	231	1.01	<0.5	90.3	15.7	16	<0.1	<0.1	<0.1	7	0.44
1540753	Rock	3.95	<0.005	0.6	1.8	2.8	12	<0.1	1.1	1.2	246	0.63	<0.5	2.5	6.5	27	<0.1	<0.1	<0.1	4	1.53
1540754	Rock	3.89	0.017	0.7	5.9	1.6	17	<0.1	1.6	1.7	205	0.87	<0.5	21.9	15.2	16	<0.1	<0.1	<0.1	5	0.49
1540755	Rock	3.57	0.014	0.5	4.1	2.1	21	<0.1	0.9	1.9	244	1.04	<0.5	13.8	9.8	19	<0.1	<0.1	<0.1	8	0.66
1540756	Rock	3.75	0.009	0.8	5.0	3.7	22	<0.1	1.5	1.6	239	0.82	<0.5	11.2	9.4	20	<0.1	0.2	<0.1	6	0.93
1540757	Rock	3.34	<0.005	0.7	4.2	3.2	29	<0.1	1.1	1.8	229	0.98	0.8	1.3	17.2	18	<0.1	0.6	<0.1	5	0.70
1540758	Rock	3.81	<0.005	0.6	3.1	2.5	20	<0.1	1.1	1.8	219	0.92	<0.5	6.5	13.1	20	<0.1	<0.1	<0.1	6	0.65
1540759	Rock	4.06	0.012	0.5	5.5	2.7	25	<0.1	3.1	2.4	239	1.03	<0.5	9.3	10.3	21	<0.1	<0.1	<0.1	9	0.78
1540760	Rock	0.15	<0.005	0.7	1.2	3.9	19	0.1	2.4	0.4	105	0.19	2.7	1.7	0.6	259	0.2	1.2	<0.1	14	17.92
1540761	Rock	3.62	0.021	1.0	4.2	3.6	25	<0.1	2.5	2.3	275	0.98	<0.5	19.1	10.8	21	<0.1	<0.1	<0.1	7	1.57
1540762	Rock	3.43	<0.005	0.8	3.7	3.5	27	<0.1	1.4	2.3	300	1.09	<0.5	1.0	12.7	30	<0.1	<0.1	<0.1	14	1.61
1540763	Rock	3.80	<0.005	0.6	5.5	3.9	35	<0.1	1.3	1.8	290	1.11	<0.5	<0.5	8.6	47	<0.1	<0.1	<0.1	17	2.30
1540764	Rock	3.80	<0.005	0.8	6.5	2.6	35	<0.1	1.6	2.1	217	1.03	<0.5	<0.5	8.7	35	<0.1	<0.1	<0.1	17	1.17
1540765	Rock	4.38	<0.005	0.8	5.8	2.2	30	<0.1	1.4	2.4	247	1.17	<0.5	<0.5	10.8	21	<0.1	<0.1	<0.1	15	0.74



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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA530
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9
1540736	Rock	0.031	27	10	0.41	87	0.097	<20	0.87	0.049	0.49	1.0	<0.01	2.4	0.2	<0.05	4	<0.5	<0.2
1540737	Rock	0.036	23	11	0.41	79	0.079	<20	0.90	0.047	0.44	0.5	<0.01	2.4	0.2	<0.05	4	<0.5	<0.2
1540738	Rock	0.030	27	9	0.55	69	0.056	<20	0.97	0.040	0.38	0.4	<0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
1540739	Rock	0.030	25	12	0.55	88	0.077	<20	0.92	0.055	0.43	0.5	<0.01	2.9	0.1	<0.05	5	<0.5	<0.2
1540740	Rock Pulp	0.032	9	107	1.41	127	0.105	<20	2.66	0.300	0.21	0.9	0.03	3.0	<0.1	0.10	6	<0.5	<0.2
1540741	Rock	0.023	23	9	0.37	70	0.037	<20	0.66	0.041	0.24	0.5	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
1540742	Rock	0.013	24	7	0.28	55	0.055	<20	0.61	0.034	0.29	0.5	<0.01	1.8	0.1	<0.05	3	<0.5	<0.2
1540743	Rock	0.025	25	3	0.29	77	0.080	<20	0.65	0.034	0.40	1.2	<0.01	2.5	0.2	<0.05	3	<0.5	<0.2
1540744	Rock	0.014	22	7	0.15	51	0.040	<20	0.46	0.040	0.22	1.2	<0.01	1.8	0.1	<0.05	3	<0.5	<0.2
1540745	Rock	0.012	27	2	0.12	57	0.026	<20	0.41	0.025	0.17	0.8	<0.01	1.7	<0.1	<0.05	2	<0.5	<0.2
1540746	Rock	0.014	25	5	0.16	51	0.041	<20	0.45	0.047	0.25	1.2	<0.01	1.7	0.1	<0.05	2	<0.5	<0.2
1540747	Rock	0.014	26	4	0.20	47	0.052	<20	0.49	0.047	0.29	1.6	<0.01	2.3	0.1	<0.05	3	<0.5	<0.2
1540748	Rock	0.016	21	4	0.15	52	0.023	<20	0.43	0.051	0.17	0.8	<0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
1540749	Rock	0.015	26	4	0.19	48	0.032	<20	0.47	0.046	0.21	0.9	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
1540750	Rock	0.016	21	6	0.19	54	0.028	<20	0.47	0.044	0.20	0.6	<0.01	1.6	<0.1	<0.05	3	<0.5	<0.2
1540751	Rock	0.014	25	4	0.18	45	0.040	<20	0.47	0.047	0.25	1.1	<0.01	1.7	0.1	<0.05	3	<0.5	<0.2
1540752	Rock	0.014	26	6	0.14	50	0.026	<20	0.41	0.041	0.20	0.9	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2
1540753	Rock	0.020	13	4	0.08	51	0.003	<20	0.30	0.034	0.14	0.5	0.01	0.7	<0.1	<0.05	1	<0.5	<0.2
1540754	Rock	0.012	24	6	0.14	33	0.019	<20	0.39	0.043	0.16	0.8	<0.01	1.3	<0.1	<0.05	2	<0.5	<0.2
1540755	Rock	0.019	21	4	0.16	47	0.024	<20	0.43	0.039	0.20	0.7	<0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
1540756	Rock	0.013	17	6	0.07	57	0.002	<20	0.31	0.046	0.12	0.5	<0.01	1.2	<0.1	<0.05	1	<0.5	<0.2
1540757	Rock	0.013	29	4	0.08	46	0.017	<20	0.35	0.034	0.15	0.6	<0.01	1.7	<0.1	<0.05	2	<0.5	<0.2
1540758	Rock	0.014	22	6	0.12	43	0.022	<20	0.38	0.041	0.18	0.7	<0.01	1.6	<0.1	<0.05	2	<0.5	<0.2
1540759	Rock	0.018	18	9	0.19	51	0.021	<20	0.44	0.036	0.18	0.7	<0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
1540760	Rock	0.014	2	3	11.10	19	0.003	<20	0.12	0.002	0.02	0.2	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
1540761	Rock	0.016	19	6	0.13	61	0.009	<20	0.43	0.008	0.12	0.5	<0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
1540762	Rock	0.023	24	6	0.16	67	0.029	<20	0.51	0.005	0.21	0.4	<0.01	2.7	0.1	<0.05	3	<0.5	<0.2
1540763	Rock	0.024	19	4	0.18	71	0.026	<20	0.49	0.033	0.21	0.6	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
1540764	Rock	0.023	17	8	0.19	60	0.032	<20	0.49	0.045	0.24	1.2	<0.01	1.8	0.1	<0.05	3	<0.5	<0.2
1540765	Rock	0.021	23	7	0.20	63	0.036	<20	0.52	0.044	0.27	0.8	<0.01	1.7	0.1	<0.05	3	<0.5	<0.2



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Project: LOO
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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540766	Rock	3.51	<0.005	0.8	5.0	2.3	19	<0.1	1.0	1.8	255	1.10	<0.5	1.1	13.9	19	<0.1	<0.1	<0.1	8	0.62



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CERTIFICATE OF ANALYSIS

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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA530
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	gm/t
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9	
1540766	Rock	0.015	25	5	0.14	51	0.035	<20	0.42	0.039	0.23	1.1	<0.01	1.9	<0.1	<0.05	2	<0.5	<0.2	



QUALITY CONTROL REPORT

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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
1540679	Rock	4.02	<0.005	0.6	2.4	2.3	27	<0.1	2.0	2.5	407	1.26	<0.5	<0.5	12.9	23	<0.1	<0.1	<0.1	11	0.90
REP 1540679	QC	<0.005																			
1540697	Rock	4.25	<0.005	1.0	10.4	2.2	30	<0.1	2.0	2.9	322	1.29	0.7	<0.5	10.7	35	<0.1	<0.1	<0.1	16	1.15
REP 1540697	QC	1.0 9.7 2.2 30 <0.1 2.1 3.0 325 1.28 0.5 <0.5 10.8 35 <0.1 <0.1 <0.1 16 1.12																			
REP 1540729	QC	0.061																			
1540732	Rock	3.70	0.016	1.8	4.2	1.8	39	<0.1	1.7	5.1	469	1.91	<0.5	100.9	9.9	30	<0.1	<0.1	<0.1	22	0.67
REP 1540732	QC	1.8 3.7 1.7 36 <0.1 1.5 5.0 469 1.91 <0.5 13.0 9.7 30 <0.1 <0.1 <0.1 22 0.67																			
1540752	Rock	3.87	0.064	0.6	6.3	2.9	18	<0.1	1.1	2.5	231	1.01	<0.5	90.3	15.7	16	<0.1	<0.1	<0.1	7	0.44
REP 1540752	QC	0.078																			
1540760	Rock	0.15	<0.005	0.7	1.2	3.9	19	0.1	2.4	0.4	105	0.19	2.7	1.7	0.6	259	0.2	1.2	<0.1	14	17.92
REP 1540760	QC	0.7 1.1 3.9 19 0.1 2.9 0.5 113 0.19 2.5 1.8 0.6 262 0.3 1.1 <0.1 14 18.28																			
Core Reject Duplicates																					
1540695	Rock	3.70	0.014	1.3	3.0	2.7	17	<0.1	1.2	1.7	258	0.91	1.0	11.8	9.1	28	<0.1	0.1	<0.1	7	1.41
DUP 1540695	QC	0.011 1.5 3.1 2.8 17 <0.1 1.3 1.8 252 0.93 1.2 10.4 9.1 29 <0.1 0.1 <0.1 7 1.46																			
1540729	Rock	4.03	0.058	2.1	4.1	1.8	34	<0.1	1.6	4.7	455	1.85	<0.5	71.0	10.3	27	<0.1	<0.1	<0.1	20	0.69
DUP 1540729	QC	0.053 2.0 4.0 1.9 37 <0.1 1.7 4.7 461 1.89 <0.5 52.6 10.8 27 <0.1 <0.1 <0.1 21 0.71																			
1540763	Rock	3.80	<0.005	0.6	5.5	3.9	35	<0.1	1.3	1.8	290	1.11	<0.5	<0.5	8.6	47	<0.1	<0.1	<0.1	17	2.30
DUP 1540763	QC	<0.005 0.7 6.0 4.0 39 <0.1 1.3 1.8 282 1.11 <0.5 0.8 9.0 47 <0.1 <0.1 <0.1 17 2.31																			
Reference Materials																					
STD AGPROOF	Standard																				
STD DS10	Standard	15.2 151.0 152.4 368 1.8 73.7 13.2 938 2.81 45.0 64.5 7.4 69 2.7 8.0 13.1 42 1.07																			
STD DS10	Standard	12.6 146.8 142.2 346 1.9 72.3 13.0 858 2.72 46.8 108.4 7.0 64 2.5 8.4 11.6 41 1.03																			
STD DS10	Standard	12.4 154.2 144.9 347 1.7 74.9 13.1 888 2.78 43.4 60.4 6.8 65 2.8 7.1 11.9 42 1.07																			
STD OREAS45EA	Standard	1.7 677.9 14.6 30 0.3 381.4 51.1 418 23.73 11.5 54.7 10.6 4 <0.1 0.3 0.3 301 0.03																			
STD OREAS45EA	Standard	1.5 691.6 14.2 31 0.3 374.4 52.7 424 24.39 10.4 54.2 10.0 4 <0.1 0.3 0.3 300 0.03																			
STD OREAS45EA	Standard	1.5 656.3 14.4 31 0.3 366.8 50.7 391 22.93 10.0 62.2 10.3 4 <0.1 0.3 0.3 285 0.03																			
STD OXC145	Standard	0.203																			
STD OXC145	Standard	0.213																			



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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA530
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9	
Pulp Duplicates																				
1540679	Rock	0.020	25	5	0.29	47	0.046	<20	0.61	0.024	0.29	0.8	<0.01	1.9	0.1	<0.05	4	<0.5	<0.2	
REP 1540679	QC																			
1540697	Rock	0.020	20	11	0.30	65	0.042	<20	0.62	0.044	0.25	0.6	<0.01	2.6	0.1	<0.05	4	<0.5	<0.2	
REP 1540697	QC	0.020	20	11	0.29	65	0.042	<20	0.61	0.044	0.25	0.6	<0.01	2.4	0.1	<0.05	4	<0.5	<0.2	
REP 1540729	QC																			
1540732	Rock	0.031	26	9	0.47	101	0.093	<20	0.95	0.051	0.49	0.9	<0.01	2.3	0.2	<0.05	5	<0.5	<0.2	
REP 1540732	QC	0.031	26	9	0.47	100	0.096	<20	0.94	0.050	0.49	0.8	<0.01	2.4	0.2	<0.05	4	<0.5	<0.2	
1540752	Rock	0.014	26	6	0.14	50	0.026	<20	0.41	0.041	0.20	0.9	0.02	1.6	<0.1	<0.05	2	<0.5	<0.2	
REP 1540752	QC																			
1540760	Rock	0.014	2	3	11.10	19	0.003	<20	0.12	0.002	0.02	0.2	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2	
REP 1540760	QC	0.015	2	3	11.33	19	0.002	<20	0.12	0.003	0.02	0.2	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2	
Core Reject Duplicates																				
1540695	Rock	0.017	21	5	0.12	51	0.021	<20	0.37	0.030	0.18	0.6	<0.01	1.6	<0.1	<0.05	2	<0.5	<0.2	
DUP 1540695	QC	0.016	19	5	0.11	47	0.021	<20	0.37	0.030	0.18	0.6	<0.01	1.7	<0.1	<0.05	2	<0.5	<0.2	
1540729	Rock	0.033	24	10	0.41	83	0.092	<20	0.83	0.041	0.44	1.3	0.01	2.4	0.2	<0.05	4	<0.5	<0.2	
DUP 1540729	QC	0.033	26	11	0.42	86	0.096	<20	0.84	0.043	0.46	1.5	<0.01	2.3	0.2	<0.05	4	<0.5	<0.2	
1540763	Rock	0.024	19	4	0.18	71	0.026	<20	0.49	0.033	0.21	0.6	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2	
DUP 1540763	QC	0.021	18	4	0.15	71	0.027	<20	0.49	0.034	0.21	0.6	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2	
Reference Materials																				
STD AGPROOF	Standard																		<0.9	
STD DS10	Standard	0.078	18	57	0.78	427	0.090	<20	1.04	0.070	0.33	3.6	0.29	2.8	5.2	0.27	4	1.9	5.1	
STD DS10	Standard	0.075	16	55	0.76	430	0.080	<20	0.99	0.067	0.32	3.2	0.29	2.7	5.1	0.27	4	2.3	5.1	
STD DS10	Standard	0.083	17	57	0.78	407	0.081	<20	1.01	0.070	0.33	2.8	0.28	3.0	5.1	0.28	4	2.1	5.0	
STD OREAS45EA	Standard	0.028	7	899	0.10	155	0.104	<20	3.24	0.020	0.05	<0.1	<0.01	82.1	<0.1	<0.05	13	<0.5	<0.2	
STD OREAS45EA	Standard	0.031	7	847	0.09	165	0.100	<20	3.44	0.019	0.06	<0.1	<0.01	75.8	<0.1	<0.05	13	1.0	<0.2	
STD OREAS45EA	Standard	0.027	7	776	0.08	138	0.100	<20	3.08	0.020	0.05	<0.1	<0.01	76.8	<0.1	<0.05	12	0.6	<0.2	
STD OXC145	Standard																			
STD OXC145	Standard																			



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		WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
STD OXH122	Standard		1.274																		
STD OXH122	Standard		1.284																		
STD OXN117	Standard		7.520																		
STD OXN117	Standard		8.066																		
STD SP49	Standard																				
STD SQ70	Standard																				
STD DS10 Expected				13.6	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625
STD OREAS45EA Expected				1.6	709	14.3	31.4	0.26	381	52	400	23.51	10.3	53	10.7	3.5	0.03	0.32	0.26	303	0.036
STD OXN117 Expected			7.679																		
STD OXC145 Expected			0.212																		
STD OXH122 Expected			1.247																		
STD AGPROOF Expected																					
STD SP49 Expected																					
STD SQ70 Expected																					
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		<0.005	1.0	4.5	1.0	34	<0.1	0.8	3.6	527	1.80	1.5	<0.5	2.2	19	<0.1	<0.1	<0.1	20	0.50
ROCK-WHI	Prep Blank		<0.005	1.1	2.6	1.0	34	<0.1	0.8	3.8	527	1.84	1.2	<0.5	2.3	19	<0.1	<0.1	<0.1	21	0.51



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		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA530		
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au	
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t	
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9	
STD OXH122	Standard																				
STD OXH122	Standard																				
STD OXN117	Standard																				
STD OXN117	Standard																				
STD SP49	Standard																				17.9
STD SQ70	Standard																				40.0
STD DS10 Expected		0.0765	17.5	54.6	0.775	412	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3	2.3	5.01		
STD OREAS45EA Expected		0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053			78	0.072	0.036	12.4	0.78	0.07		
STD OXN117 Expected																					
STD OXC145 Expected																					
STD OXH122 Expected																					
STD AGPROOF Expected																					0
STD SP49 Expected																					18.34
STD SQ70 Expected																					39.62
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2		
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				<0.9
Prep Wash																					
ROCK-WHI	Prep Blank	0.041	6	8	0.47	49	0.081	<20	0.83	0.080	0.08	0.1	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2		
ROCK-WHI	Prep Blank	0.043	6	6	0.46	51	0.087	<20	0.80	0.070	0.08	<0.1	<0.01	2.6	<0.1	<0.05	4	<0.5	<0.2		



BUREAU VERITAS MINERAL LABORATORIES
Canada

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Bureau Veritas Commodities Canada Ltd.
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PHONE (604) 253-3158

Client: **White Gold Corp.**
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Dawson Yukon Y0B 1G0 Canada

Submitted By: Jodie Gibson
Receiving Lab: Canada-Whitehorse
Received: July 04, 2017
Report Date: July 25, 2017
Page: 1 of 5

CERTIFICATE OF ANALYSIS

WHI17000222.1

CLIENT JOB INFORMATION

Project: LOO
Shipment ID: LOO-20170630-001-RAB
P.O. Number
Number of Samples: 115

SAMPLE DISPOSAL

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

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

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

CC: Isaac Fage
Shawn Ryan
Greg Dawson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	112	Crush, split and pulverize 250 g rock to 200 mesh			WHI
SLBHP	3	Sort, label and box pulps			WHI
FA430	115	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	115	Environmental disposal charge-Fire assay lead waste			VAN
AQ200	115	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	115	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



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



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Project: LOO
Report Date: July 25, 2017

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000222.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540767	Rock	3.59	<0.005	0.9	11.9	29.7	32	<0.1	1.8	2.2	285	1.16	0.8	2.4	13.1	26	<0.1	<0.1	<0.1	8	1.07
1540768	Rock	3.44	0.013	1.1	9.0	3.3	25	<0.1	2.2	2.5	242	1.18	<0.5	3.2	11.3	13	<0.1	<0.1	<0.1	8	0.68
1540769	Rock	3.80	<0.005	0.8	8.9	5.3	33	<0.1	2.0	2.5	295	1.28	<0.5	0.9	12.5	32	<0.1	<0.1	<0.1	12	1.24
1540770	Rock	3.27	<0.005	1.0	7.3	3.9	27	<0.1	1.9	2.5	327	1.24	<0.5	<0.5	15.0	41	<0.1	<0.1	<0.1	11	1.27
1540771	Rock	3.52	0.020	1.5	6.6	4.6	38	<0.1	1.7	2.4	346	1.22	0.6	0.7	10.4	49	<0.1	<0.1	<0.1	9	2.13
1540772	Rock	3.65	<0.005	0.8	9.1	3.2	47	<0.1	1.5	2.5	363	1.35	<0.5	<0.5	13.3	26	<0.1	<0.1	<0.1	11	0.91
1540773	Rock	3.36	<0.005	1.1	8.4	2.9	74	<0.1	2.1	2.9	368	1.50	<0.5	<0.5	13.1	29	0.2	<0.1	<0.1	12	0.91
1540774	Rock	3.66	<0.005	1.3	7.0	4.7	37	<0.1	1.5	2.7	443	1.28	0.9	<0.5	11.1	36	<0.1	<0.1	<0.1	10	2.03
1540775	Rock	4.00	0.014	1.4	7.4	4.0	21	<0.1	1.9	2.2	257	1.08	0.5	9.8	13.4	38	<0.1	<0.1	<0.1	6	1.80
1540776	Rock	2.60	0.014	1.7	6.4	4.9	28	<0.1	1.9	2.4	388	1.20	0.6	2.9	10.3	31	<0.1	<0.1	<0.1	9	1.67
1540777	Rock	3.23	<0.005	1.2	8.1	5.1	67	<0.1	2.1	9.4	1047	3.48	<0.5	1.6	5.5	51	<0.1	<0.1	<0.1	62	2.42
1540778	Rock	4.55	<0.005	1.3	6.3	3.1	56	<0.1	1.7	8.5	944	3.13	<0.5	2.1	5.7	49	<0.1	<0.1	<0.1	53	1.72
1540779	Rock	3.17	<0.005	1.3	17.9	2.2	53	<0.1	3.5	5.6	690	2.31	<0.5	2.1	9.1	31	<0.1	<0.1	<0.1	27	1.40
1540780	Rock Pulp	0.09	5.380	7.8	193.8	21.8	73	0.8	14.0	11.0	584	4.15	11.5	4364.8	2.7	72	0.2	3.7	0.4	98	0.90
1540781	Rock	3.70	0.009	1.0	9.5	2.9	43	<0.1	1.7	4.2	542	1.57	0.6	7.4	10.4	31	<0.1	<0.1	<0.1	16	1.56
1540782	Rock	3.53	0.034	1.3	6.5	4.5	34	<0.1	2.4	3.5	493	1.37	<0.5	29.8	10.1	38	<0.1	0.1	0.2	11	1.62
1540783	Rock	3.70	0.035	1.9	25.6	4.1	44	<0.1	1.9	3.9	428	1.63	<0.5	90.6	9.9	29	<0.1	<0.1	0.2	15	1.13
1540784	Rock	3.45	0.162	1.2	10.6	3.7	38	<0.1	2.2	3.5	383	1.57	0.5	134.5	8.3	23	<0.1	<0.1	<0.1	13	1.13
1540785	Rock	3.39	1.164	1.3	8.2	4.6	33	0.5	1.7	5.3	470	1.63	0.7	1081.0	6.8	46	<0.1	0.1	0.5	9	1.43
1540786	Rock	3.38	4.334	1.3	5.1	8.1	16	3.0	1.9	2.9	75	2.14	18.8	4641.1	12.9	42	<0.1	0.3	1.3	4	0.09
1540787	Rock	4.07	0.860	1.1	3.2	3.1	10	0.7	1.8	1.6	125	1.23	3.6	711.7	13.9	22	<0.1	0.1	0.3	2	0.48
1540788	Rock	3.37	0.187	1.3	4.8	4.0	18	0.1	1.5	1.6	231	0.81	0.7	175.9	14.1	26	<0.1	<0.1	<0.1	3	1.42
1540789	Rock	3.97	0.074	1.5	6.5	3.5	32	<0.1	1.9	2.2	313	1.12	1.0	66.0	13.5	27	<0.1	<0.1	<0.1	9	1.06
1540790	Rock	3.14	0.017	1.3	4.0	3.9	23	<0.1	1.4	1.6	267	0.92	<0.5	12.0	14.1	36	<0.1	<0.1	<0.1	7	1.38
1540791	Rock	2.71	0.015	1.5	7.8	2.7	19	<0.1	1.8	1.8	303	0.92	0.9	10.9	13.6	16	<0.1	<0.1	<0.1	5	0.80
1540792	Rock	3.39	0.017	1.8	4.5	3.1	24	<0.1	1.6	2.5	330	1.15	0.8	15.1	14.1	25	<0.1	<0.1	<0.1	8	1.33
1540793	Rock	3.66	0.012	1.5	7.7	4.1	52	<0.1	2.2	6.8	752	2.54	<0.5	12.9	8.9	52	<0.1	<0.1	<0.1	41	2.23
1540794	Rock	2.96	0.008	1.1	5.9	3.7	63	<0.1	1.6	10.0	1017	3.51	<0.5	5.1	5.6	69	<0.1	<0.1	<0.1	62	2.57
1540795	Rock	3.00	0.017	1.2	13.0	2.6	48	<0.1	1.8	6.6	837	2.64	0.8	5.3	8.3	43	<0.1	<0.1	<0.1	34	1.90
1540796	Rock	3.15	0.013	1.5	5.7	2.1	46	<0.1	1.9	3.7	593	1.75	<0.5	6.5	8.3	38	<0.1	<0.1	<0.1	19	1.45



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Project: LOO
Report Date: July 25, 2017

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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
1540767	Rock	0.013	28	6	0.12	84	0.027	<20	0.74	0.053	0.24	0.5	0.01	2.1	<0.1	<0.05	3	<0.5	<0.2	
1540768	Rock	0.017	24	7	0.12	63	0.023	<20	0.79	0.013	0.25	0.4	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2	
1540769	Rock	0.019	25	7	0.20	64	0.047	<20	0.91	0.036	0.33	0.5	<0.01	2.3	0.1	<0.05	4	<0.5	<0.2	
1540770	Rock	0.017	28	8	0.19	63	0.052	<20	0.79	0.024	0.34	0.7	<0.01	2.7	0.1	<0.05	3	<0.5	<0.2	
1540771	Rock	0.023	23	7	0.15	123	0.022	<20	0.71	0.019	0.25	0.5	<0.01	1.6	0.1	<0.05	3	<0.5	<0.2	
1540772	Rock	0.017	25	6	0.22	72	0.049	<20	0.85	0.047	0.37	0.5	<0.01	2.3	0.1	<0.05	3	<0.5	<0.2	
1540773	Rock	0.018	26	8	0.21	70	0.059	<20	0.82	0.041	0.38	0.5	<0.01	2.6	0.1	<0.05	4	<0.5	<0.2	
1540774	Rock	0.021	26	6	0.14	100	0.032	<20	0.80	0.013	0.30	0.4	<0.01	2.2	<0.1	<0.05	2	<0.5	<0.2	
1540775	Rock	0.017	26	7	0.07	56	0.011	<20	0.57	0.016	0.19	0.4	<0.01	1.6	<0.1	<0.05	2	<0.5	<0.2	
1540776	Rock	0.016	20	7	0.09	79	0.015	<20	0.88	0.003	0.21	0.4	0.01	2.0	<0.1	<0.05	3	<0.5	<0.2	
1540777	Rock	0.068	19	6	0.97	346	0.199	<20	1.98	0.012	1.08	0.3	<0.01	10.0	0.2	<0.05	7	<0.5	<0.2	
1540778	Rock	0.056	17	6	0.99	333	0.190	<20	1.93	0.052	1.05	0.3	<0.01	8.3	0.2	<0.05	7	<0.5	<0.2	
1540779	Rock	0.039	21	11	0.64	185	0.101	<20	1.24	0.038	0.61	0.5	<0.01	4.7	0.1	<0.05	5	<0.5	<0.2	
1540780	Rock Pulp	0.057	7	18	0.86	128	0.146	<20	1.71	0.178	0.22	5.0	0.14	2.9	<0.1	<0.05	5	<0.5	<0.2	
1540781	Rock	0.030	27	6	0.36	93	0.058	<20	0.96	0.044	0.42	0.5	<0.01	2.6	0.1	<0.05	4	<0.5	<0.2	
1540782	Rock	0.032	26	9	0.22	94	0.018	<20	0.79	0.063	0.32	0.4	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2	
1540783	Rock	0.030	25	7	0.32	63	0.031	<20	0.88	0.078	0.29	0.5	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2	
1540784	Rock	0.030	24	9	0.27	57	0.008	<20	0.77	0.066	0.19	0.3	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2	
1540785	Rock	0.026	20	7	0.10	106	0.005	<20	0.76	0.067	0.27	0.3	0.11	2.2	<0.1	0.06	3	<0.5	1.2	
1540786	Rock	0.019	24	8	0.04	147	0.002	<20	0.52	0.064	0.39	0.3	0.19	1.1	0.1	0.27	2	<0.5	4.4	
1540787	Rock	0.015	27	8	0.03	86	0.002	<20	0.39	0.054	0.22	0.7	0.05	0.7	<0.1	0.10	1	<0.5	1.0	
1540788	Rock	0.015	30	7	0.04	82	0.002	<20	0.74	0.029	0.23	0.3	0.02	1.0	<0.1	<0.05	2	<0.5	<0.2	
1540789	Rock	0.017	25	8	0.09	56	0.025	<20	0.63	0.004	0.22	0.4	0.01	2.1	<0.1	<0.05	3	<0.5	<0.2	
1540790	Rock	0.014	25	8	0.10	54	0.030	<20	0.75	0.004	0.23	0.4	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2	
1540791	Rock	0.014	25	8	0.06	64	0.014	<20	0.54	0.003	0.15	0.4	<0.01	1.6	<0.1	<0.05	2	<0.5	<0.2	
1540792	Rock	0.017	25	8	0.10	55	0.018	<20	0.71	0.013	0.20	0.6	0.01	1.8	<0.1	<0.05	2	<0.5	<0.2	
1540793	Rock	0.045	23	7	0.54	153	0.096	<20	1.31	0.017	0.55	0.3	<0.01	7.1	0.1	<0.05	5	<0.5	<0.2	
1540794	Rock	0.068	21	5	1.00	314	0.190	<20	2.14	0.022	1.06	0.2	<0.01	10.8	0.2	<0.05	8	<0.5	<0.2	
1540795	Rock	0.040	23	6	0.57	186	0.123	<20	1.34	0.013	0.71	0.3	<0.01	6.4	0.1	<0.05	5	<0.5	<0.2	
1540796	Rock	0.039	27	8	0.40	91	0.055	<20	1.15	0.058	0.37	0.5	<0.01	3.1	0.1	<0.05	5	<0.5	<0.2	



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Project: LOO
Report Date: July 25, 2017

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000222.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540797	Rock	3.59	0.012	1.7	9.0	1.8	36	<0.1	2.2	3.7	457	1.67	<0.5	10.4	10.2	23	<0.1	<0.1	<0.1	20	0.71
1540798	Rock	3.67	0.015	1.6	4.5	3.2	39	<0.1	1.5	4.0	544	1.73	0.5	6.8	9.1	37	<0.1	<0.1	<0.1	21	1.22
1540799	Rock	3.35	0.013	1.4	4.9	3.5	42	<0.1	2.0	4.6	569	1.82	0.6	7.7	9.0	49	<0.1	<0.1	<0.1	23	2.04
1540800	Rock	0.13	<0.005	0.5	12.2	8.1	41	0.1	3.8	0.5	111	0.16	3.2	2.6	0.3	292	0.3	1.5	<0.1	15	20.83
1540801	Rock	3.23	0.008	1.9	8.6	6.5	45	<0.1	2.1	4.1	544	1.88	0.5	5.2	9.1	45	<0.1	<0.1	0.2	21	1.92
1540802	Rock	4.55	0.010	1.7	10.2	5.6	47	<0.1	2.1	3.5	459	1.63	<0.5	6.0	5.6	59	<0.1	<0.1	<0.1	20	2.19
1540803	Rock	3.99	0.010	1.6	7.3	6.0	47	<0.1	2.8	3.7	430	1.69	0.9	5.5	4.4	64	<0.1	<0.1	<0.1	30	2.10
1540804	Rock	4.00	0.008	1.3	5.9	5.0	42	<0.1	2.0	3.6	379	1.54	1.3	7.6	6.2	53	<0.1	<0.1	<0.1	22	1.80
1540805	Rock	4.08	0.008	1.4	6.8	4.0	50	<0.1	2.4	3.0	361	1.47	0.6	8.0	4.8	58	<0.1	<0.1	<0.1	23	1.54
1540806	Rock	4.10	0.007	1.5	7.1	3.7	49	<0.1	2.8	3.7	413	1.77	0.7	5.1	5.9	60	<0.1	<0.1	<0.1	26	1.53
1540807	Rock	2.82	0.006	1.7	6.6	3.9	43	<0.1	2.1	4.1	466	1.77	0.5	6.3	6.5	57	<0.1	<0.1	<0.1	25	1.61
1540808	Rock	2.60	0.005	1.8	5.5	3.6	43	<0.1	2.6	5.0	530	2.13	<0.5	3.5	8.0	53	<0.1	<0.1	<0.1	27	1.36
1540809	Rock	3.78	<0.005	1.4	4.9	4.6	38	<0.1	2.3	4.5	611	2.04	<0.5	2.2	9.4	108	<0.1	<0.1	<0.1	25	2.64
1540810	Rock	3.68	<0.005	1.6	3.7	3.8	38	<0.1	2.2	4.4	568	2.00	0.5	1.7	9.5	89	<0.1	<0.1	<0.1	24	2.06
1540811	Rock	1.46	<0.005	1.2	8.4	3.5	37	<0.1	6.3	2.5	276	1.27	<0.5	1.9	11.1	11	<0.1	<0.1	<0.1	13	0.11
1540812	Rock	4.61	<0.005	1.2	6.8	3.1	31	<0.1	4.5	2.6	286	1.29	<0.5	<0.5	12.1	13	<0.1	<0.1	<0.1	12	0.13
1540813	Rock	3.89	<0.005	0.6	5.0	2.8	25	<0.1	2.5	2.3	276	1.12	<0.5	<0.5	12.9	23	<0.1	<0.1	<0.1	9	0.48
1540814	Rock	3.80	<0.005	0.8	3.9	3.2	26	<0.1	2.7	2.3	293	1.25	<0.5	<0.5	13.5	29	<0.1	<0.1	<0.1	8	0.89
1540815	Rock	4.55	<0.005	0.9	8.9	4.3	42	<0.1	10.8	5.0	490	1.68	0.5	<0.5	11.0	58	<0.1	0.1	<0.1	24	1.74
1540816	Rock	4.38	<0.005	1.0	7.7	2.4	29	<0.1	3.5	2.7	338	1.14	<0.5	<0.5	14.1	31	<0.1	<0.1	<0.1	9	1.03
1540817	Rock	3.97	<0.005	0.8	7.9	2.7	26	<0.1	2.1	2.4	245	1.16	<0.5	<0.5	14.2	13	<0.1	<0.1	<0.1	10	0.37
1540818	Rock	3.57	<0.005	1.0	5.6	2.6	21	<0.1	1.9	2.0	282	1.13	<0.5	<0.5	14.1	10	<0.1	<0.1	<0.1	7	0.55
1540819	Rock	3.72	<0.005	0.7	6.0	3.4	24	<0.1	2.2	2.5	295	1.16	<0.5	<0.5	11.4	24	<0.1	<0.1	<0.1	11	1.30
1540820	Rock Pulp	0.09	0.520	5.9	273.2	14.7	48	0.7	109.2	14.4	446	2.79	165.7	468.2	3.3	76	0.2	1.5	0.1	62	1.69
1540821	Rock	4.02	<0.005	0.9	6.5	3.6	49	<0.1	5.0	5.4	461	1.88	<0.5	<0.5	11.7	37	<0.1	<0.1	<0.1	25	1.31
1540822	Rock	3.78	<0.005	0.9	5.6	3.0	24	<0.1	2.5	2.1	225	0.88	<0.5	<0.5	10.0	34	<0.1	<0.1	<0.1	8	0.72
1540823	Rock	4.37	<0.005	9.7	5.7	2.0	40	<0.1	2.2	3.0	406	1.39	0.7	<0.5	13.5	25	<0.1	<0.1	<0.1	12	0.70
1540824	Rock	4.33	<0.005	1.7	9.1	1.9	73	<0.1	2.2	2.5	374	1.23	<0.5	<0.5	12.7	24	0.1	<0.1	<0.1	11	0.60
1540825	Rock	3.73	<0.005	0.9	4.8	1.9	40	<0.1	2.0	3.1	373	1.38	0.5	<0.5	12.7	17	<0.1	<0.1	<0.1	17	0.57
1540826	Rock	3.76	<0.005	1.5	4.0	3.3	30	<0.1	1.6	2.1	388	1.08	<0.5	<0.5	14.3	19	<0.1	<0.1	<0.1	6	1.11



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Method Analyte Unit MDL	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	
1540797	Rock	0.024	27	9	0.37	81	0.079	<20	0.89	0.051	0.44	0.8	<0.01	3.2	0.1	<0.05	5	<0.5	<0.2
1540798	Rock	0.028	27	7	0.31	69	0.071	<20	1.00	0.038	0.42	0.4	<0.01	3.9	0.1	<0.05	4	<0.5	<0.2
1540799	Rock	0.033	26	8	0.30	81	0.071	<20	0.89	0.038	0.41	0.4	<0.01	3.9	0.1	<0.05	4	<0.5	<0.2
1540800	Rock	0.017	2	3	11.13	22	0.002	<20	0.12	0.003	0.02	0.2	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
1540801	Rock	0.032	25	8	0.29	103	0.060	<20	0.88	0.026	0.35	0.4	0.01	4.0	0.2	<0.05	4	<0.5	<0.2
1540802	Rock	0.028	16	8	0.31	105	0.038	<20	0.77	0.034	0.27	0.4	<0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
1540803	Rock	0.036	15	10	0.29	99	0.028	<20	0.80	0.055	0.25	0.2	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
1540804	Rock	0.033	17	8	0.24	73	0.046	<20	0.74	0.044	0.31	0.3	<0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
1540805	Rock	0.028	15	10	0.27	83	0.056	<20	0.81	0.061	0.38	0.4	<0.01	3.0	0.1	<0.05	4	<0.5	<0.2
1540806	Rock	0.031	18	11	0.33	103	0.072	<20	0.85	0.068	0.44	0.5	<0.01	3.3	0.2	<0.05	5	<0.5	<0.2
1540807	Rock	0.034	21	9	0.35	120	0.080	<20	0.88	0.053	0.45	0.6	<0.01	3.5	0.2	<0.05	4	<0.5	<0.2
1540808	Rock	0.034	24	11	0.40	114	0.107	<20	1.06	0.054	0.56	0.6	<0.01	4.3	0.2	<0.05	5	<0.5	<0.2
1540809	Rock	0.032	26	9	0.36	1169	0.090	<20	1.13	0.059	0.50	0.4	<0.01	4.4	0.2	<0.05	5	<0.5	<0.2
1540810	Rock	0.033	27	10	0.38	604	0.089	<20	1.01	0.054	0.48	0.4	<0.01	3.9	0.2	<0.05	5	<0.5	<0.2
1540811	Rock	0.019	25	9	0.22	69	0.045	<20	0.67	0.066	0.30	0.5	<0.01	2.1	0.1	<0.05	4	<0.5	<0.2
1540812	Rock	0.018	28	9	0.23	72	0.054	<20	0.67	0.072	0.33	1.2	<0.01	2.0	0.1	<0.05	4	<0.5	<0.2
1540813	Rock	0.014	25	5	0.16	56	0.049	<20	0.58	0.058	0.30	1.1	<0.01	1.8	0.1	<0.05	3	<0.5	<0.2
1540814	Rock	0.019	26	6	0.17	52	0.024	<20	0.59	0.071	0.25	0.6	<0.01	1.6	<0.1	<0.05	3	<0.5	<0.2
1540815	Rock	0.030	23	27	0.46	67	0.046	<20	0.88	0.051	0.29	0.5	<0.01	3.6	0.1	<0.05	5	<0.5	<0.2
1540816	Rock	0.015	25	8	0.20	45	0.023	<20	0.58	0.056	0.22	0.6	<0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
1540817	Rock	0.018	23	5	0.14	54	0.031	<20	0.58	0.058	0.26	0.5	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
1540818	Rock	0.012	26	5	0.10	54	0.026	<20	0.49	0.051	0.23	0.7	<0.01	1.6	<0.1	<0.05	2	<0.5	<0.2
1540819	Rock	0.025	22	5	0.17	59	0.028	<20	0.70	0.043	0.28	0.4	<0.01	1.8	0.1	<0.05	3	<0.5	<0.2
1540820	Rock Pulp	0.031	8	107	1.39	123	0.104	<20	2.67	0.306	0.20	1.0	0.04	2.7	<0.1	0.10	5	<0.5	<0.2
1540821	Rock	0.032	26	8	0.48	86	0.087	<20	1.06	0.056	0.54	0.7	<0.01	3.4	0.2	<0.05	5	<0.5	<0.2
1540822	Rock	0.013	17	5	0.14	53	0.029	<20	0.50	0.066	0.23	0.8	<0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
1540823	Rock	0.019	26	6	0.26	67	0.064	<20	0.79	0.060	0.43	0.9	<0.01	1.9	0.2	<0.05	4	<0.5	<0.2
1540824	Rock	0.016	24	5	0.23	50	0.064	<20	0.70	0.058	0.39	0.8	<0.01	2.1	0.1	<0.05	3	<0.5	<0.2
1540825	Rock	0.023	24	6	0.27	74	0.075	<20	0.75	0.044	0.43	0.8	<0.01	2.3	0.1	<0.05	3	<0.5	<0.2
1540826	Rock	0.016	28	4	0.12	50	0.019	<20	0.48	0.042	0.21	0.7	<0.01	1.2	<0.1	<0.05	2	<0.5	<0.2



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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540827	Rock	4.81	<0.005	1.0	4.0	2.4	33	<0.1	2.0	2.0	272	1.09	<0.5	<0.5	12.1	13	<0.1	<0.1	<0.1	7	0.42
1540828	Rock	3.74	<0.005	1.2	5.0	2.9	23	<0.1	1.8	1.9	310	1.00	<0.5	<0.5	13.1	13	<0.1	<0.1	<0.1	6	0.81
1540829	Rock	4.07	<0.005	1.0	4.8	2.1	26	<0.1	2.0	2.4	279	1.11	<0.5	0.5	13.4	14	<0.1	<0.1	<0.1	9	0.48
1540830	Rock	4.22	<0.005	0.9	3.2	2.4	24	<0.1	1.8	2.0	355	1.08	<0.5	<0.5	13.4	23	<0.1	<0.1	<0.1	8	0.93
1540831	Rock	4.48	<0.005	1.0	4.5	2.1	21	<0.1	2.1	2.3	333	1.25	<0.5	<0.5	14.5	16	<0.1	<0.1	<0.1	9	0.44
1540832	Rock	4.15	<0.005	0.9	9.0	2.5	42	<0.1	2.9	2.2	346	1.20	<0.5	<0.5	12.5	17	<0.1	<0.1	<0.1	9	0.54
1540833	Rock	4.07	<0.005	1.0	5.5	2.3	55	<0.1	1.9	2.2	336	1.24	<0.5	<0.5	13.9	15	0.1	<0.1	<0.1	9	0.38
1540834	Rock	3.96	<0.005	1.0	6.7	2.6	36	<0.1	1.8	2.1	338	1.20	<0.5	<0.5	11.5	19	<0.1	<0.1	<0.1	11	0.43
1540835	Rock	4.17	<0.005	1.3	4.2	5.2	37	<0.1	2.4	2.3	335	1.23	<0.5	1.7	13.8	17	<0.1	<0.1	<0.1	9	0.42
1540836	Rock	3.58	<0.005	1.2	4.1	1.8	31	<0.1	2.4	2.7	388	1.34	<0.5	0.7	13.8	23	<0.1	<0.1	<0.1	13	0.62
1540837	Rock	3.93	<0.005	0.9	8.7	2.4	39	<0.1	3.0	6.2	771	2.27	0.6	1.4	8.9	60	<0.1	<0.1	<0.1	37	1.39
1540838	Rock	3.56	<0.005	1.0	6.0	1.2	65	<0.1	2.0	9.9	1126	3.45	<0.5	0.9	3.5	46	<0.1	<0.1	<0.1	60	0.95
1540839	Rock	3.44	<0.005	0.9	5.6	1.0	67	<0.1	2.0	10.0	1030	3.45	<0.5	0.7	2.9	36	<0.1	<0.1	<0.1	61	0.71
1540840	Rock	0.16	<0.005	0.3	1.9	4.4	21	0.1	3.0	0.5	109	0.17	2.8	2.9	0.2	285	0.3	1.4	<0.1	15	19.95
1540841	Rock	3.52	<0.005	0.8	8.2	1.3	67	<0.1	2.8	11.5	1098	3.54	<0.5	<0.5	2.6	59	<0.1	<0.1	<0.1	66	1.28
1540842	Rock	3.49	<0.005	1.1	4.7	1.2	65	<0.1	2.1	9.6	1035	3.52	0.5	<0.5	3.3	44	<0.1	<0.1	<0.1	59	1.01
1540843	Rock	4.08	<0.005	1.0	2.9	1.2	67	<0.1	2.2	9.9	1169	3.63	0.7	<0.5	5.1	41	<0.1	<0.1	<0.1	70	0.90
1540844	Rock	3.88	<0.005	1.0	2.8	1.0	53	<0.1	2.3	8.0	854	2.83	<0.5	1.1	8.3	27	<0.1	<0.1	<0.1	53	0.73
1540845	Rock	4.00	<0.005	1.1	2.8	1.2	25	<0.1	2.5	3.0	379	1.33	<0.5	<0.5	11.1	28	<0.1	<0.1	<0.1	11	0.90
1540846	Rock	3.73	<0.005	1.4	3.8	2.8	36	<0.1	2.6	4.2	588	1.81	0.9	<0.5	9.0	47	<0.1	<0.1	<0.1	23	1.71
1540847	Rock	1.66	0.005	1.6	9.8	3.6	54	<0.1	8.2	7.6	881	2.74	0.6	3.5	9.5	13	<0.1	0.2	<0.1	39	0.41
1540848	Rock	4.29	0.013	1.0	5.0	2.9	34	<0.1	3.5	4.6	469	1.74	0.5	11.5	8.7	19	<0.1	<0.1	0.1	17	1.07
1540849	Rock	7.08	0.007	0.8	6.7	2.0	40	<0.1	2.8	4.4	481	1.84	<0.5	8.8	8.2	17	<0.1	<0.1	<0.1	22	0.70
1540850	Rock	3.84	<0.005	0.7	5.6	2.6	37	<0.1	2.2	3.7	513	1.72	<0.5	0.5	9.9	32	<0.1	0.1	<0.1	17	1.08
1540851	Rock	3.93	0.009	0.8	5.0	2.5	31	<0.1	2.0	4.0	453	1.61	<0.5	5.9	8.9	22	<0.1	0.1	0.2	15	0.99
1540852	Rock	3.95	<0.005	0.8	4.4	2.3	37	<0.1	2.3	4.5	491	1.98	<0.5	<0.5	9.0	35	<0.1	0.1	<0.1	21	0.85
1540853	Rock	4.05	<0.005	1.0	2.3	3.2	35	<0.1	3.0	4.4	546	1.85	0.9	<0.5	9.2	51	<0.1	0.1	<0.1	15	1.44
1540854	Rock	3.83	<0.005	1.7	4.5	5.4	43	<0.1	2.6	5.4	729	2.13	1.1	0.8	7.7	60	<0.1	<0.1	<0.1	20	3.14
1540855	Rock	3.39	<0.005	0.9	2.8	3.0	37	<0.1	2.0	4.5	626	2.06	0.7	<0.5	9.7	53	<0.1	<0.1	<0.1	22	1.65
1540856	Rock	4.42	<0.005	0.6	4.7	2.9	39	<0.1	1.9	5.4	554	2.20	0.7	<0.5	8.6	50	<0.1	<0.1	<0.1	34	1.57



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	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	
1540827	Rock	0.014	24	5	0.16	51	0.033	<20	0.57	0.054	0.26	0.6	<0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
1540828	Rock	0.013	26	5	0.11	59	0.021	<20	0.46	0.049	0.22	0.5	<0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
1540829	Rock	0.015	23	5	0.16	72	0.023	<20	0.52	0.057	0.22	0.6	<0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
1540830	Rock	0.013	26	5	0.14	68	0.036	<20	0.56	0.061	0.25	0.6	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
1540831	Rock	0.015	27	6	0.18	57	0.054	<20	0.60	0.056	0.33	0.9	<0.01	1.9	0.1	<0.05	3	<0.5	<0.2
1540832	Rock	0.014	27	7	0.18	59	0.044	<20	0.61	0.064	0.29	0.6	<0.01	1.9	0.1	<0.05	3	<0.5	<0.2
1540833	Rock	0.014	27	7	0.20	59	0.054	<20	0.60	0.065	0.32	1.0	<0.01	2.0	0.1	<0.05	3	<0.5	<0.2
1540834	Rock	0.014	23	6	0.22	104	0.054	<20	0.63	0.078	0.33	1.1	<0.01	2.2	0.1	<0.05	4	<0.5	<0.2
1540835	Rock	0.012	25	8	0.20	80	0.049	<20	0.55	0.056	0.29	1.4	0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
1540836	Rock	0.016	23	8	0.34	49	0.070	<20	0.72	0.055	0.42	1.1	<0.01	2.2	0.1	<0.05	4	<0.5	<0.2
1540837	Rock	0.043	22	9	0.73	137	0.146	<20	1.28	0.044	0.77	0.6	<0.01	4.4	0.2	<0.05	6	<0.5	<0.2
1540838	Rock	0.068	11	6	1.22	480	0.228	<20	1.84	0.053	1.16	0.4	<0.01	6.0	0.2	<0.05	7	<0.5	<0.2
1540839	Rock	0.065	8	6	1.25	592	0.242	<20	1.84	0.064	1.15	0.6	<0.01	5.0	0.2	<0.05	7	<0.5	<0.2
1540840	Rock	0.015	1	3	11.17	19	0.003	<20	0.12	0.002	0.02	0.2	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
1540841	Rock	0.067	8	7	1.29	458	0.207	<20	1.90	0.055	1.09	0.4	<0.01	5.8	0.2	<0.05	7	<0.5	<0.2
1540842	Rock	0.066	10	7	1.37	457	0.220	<20	1.92	0.067	1.12	0.4	<0.01	6.9	0.2	<0.05	8	<0.5	<0.2
1540843	Rock	0.060	14	6	1.37	430	0.271	<20	2.08	0.057	1.41	0.3	<0.01	8.5	0.3	<0.05	9	<0.5	<0.2
1540844	Rock	0.039	23	7	1.02	159	0.203	<20	1.63	0.054	1.10	0.5	<0.01	6.0	0.2	<0.05	7	<0.5	<0.2
1540845	Rock	0.018	24	9	0.33	37	0.028	<20	0.64	0.044	0.20	0.6	<0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
1540846	Rock	0.030	24	8	0.42	77	0.076	<20	0.98	0.035	0.42	0.4	0.01	2.9	0.1	<0.05	5	<0.5	<0.2
1540847	Rock	0.049	29	10	0.68	167	0.090	<20	1.33	0.032	0.46	0.3	<0.01	6.4	0.1	<0.05	5	<0.5	<0.2
1540848	Rock	0.032	24	6	0.31	65	0.020	<20	0.70	0.039	0.20	0.4	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
1540849	Rock	0.030	24	6	0.44	73	0.056	<20	0.87	0.052	0.32	0.6	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
1540850	Rock	0.029	27	5	0.35	63	0.037	<20	0.76	0.040	0.25	0.3	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
1540851	Rock	0.028	24	5	0.28	71	0.031	<20	0.69	0.043	0.26	0.4	<0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
1540852	Rock	0.032	24	5	0.37	89	0.071	<20	0.91	0.050	0.40	0.3	<0.01	3.7	0.1	<0.05	5	<0.5	<0.2
1540853	Rock	0.031	28	6	0.33	47	0.013	<20	0.79	0.044	0.19	0.2	<0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
1540854	Rock	0.033	27	6	0.32	81	0.006	<20	0.79	0.037	0.17	0.2	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
1540855	Rock	0.031	29	5	0.38	94	0.075	<20	1.00	0.030	0.42	0.4	<0.01	4.1	0.1	<0.05	5	<0.5	<0.2
1540856	Rock	0.037	26	6	0.48	118	0.078	<20	1.10	0.030	0.44	0.4	<0.01	4.5	0.1	<0.05	5	<0.5	<0.2



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Project: LOO
Report Date: July 25, 2017

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CERTIFICATE OF ANALYSIS

WHI17000222.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540857	Rock	4.06	<0.005	0.7	11.5	3.2	39	<0.1	4.2	6.3	623	2.17	<0.5	<0.5	7.4	65	<0.1	<0.1	<0.1	29	1.96
1540858	Rock	4.16	<0.005	0.7	6.2	2.3	33	<0.1	2.4	4.8	457	1.83	<0.5	1.6	9.3	40	<0.1	0.1	<0.1	18	1.49
1540859	Rock	4.02	<0.005	0.7	6.5	2.3	36	<0.1	2.9	4.7	472	1.87	0.8	3.7	9.2	44	<0.1	<0.1	<0.1	24	1.28
1540860	Rock Pulp	0.09	5.199	7.7	187.2	21.6	74	1.0	14.5	11.1	557	4.16	10.9	7576.9	2.7	70	0.1	3.8	0.4	97	0.87
1540861	Rock	4.04	<0.005	0.8	6.5	2.9	33	<0.1	1.9	4.2	463	1.80	1.5	<0.5	15.3	48	<0.1	<0.1	<0.1	19	1.23
1540862	Rock	4.03	<0.005	0.8	2.9	2.7	38	<0.1	2.0	4.0	478	1.91	0.8	<0.5	10.4	44	<0.1	<0.1	<0.1	22	1.17
1540863	Rock	4.01	<0.005	0.8	4.3	3.5	39	<0.1	2.1	4.7	547	2.00	<0.5	<0.5	8.5	49	<0.1	<0.1	<0.1	23	1.38
1540864	Rock	3.56	<0.005	1.1	2.0	2.5	37	<0.1	1.9	4.5	583	2.03	<0.5	1.8	9.8	47	<0.1	<0.1	<0.1	23	1.39
1540865	Rock	3.83	<0.005	1.0	3.4	2.7	35	<0.1	2.1	4.6	500	1.85	<0.5	2.0	11.4	46	<0.1	<0.1	<0.1	20	1.35
1540866	Rock	4.75	<0.005	1.0	4.6	2.8	38	<0.1	2.3	4.5	541	1.92	<0.5	<0.5	10.0	46	<0.1	<0.1	<0.1	21	1.20
1540867	Rock	4.42	<0.005	1.2	3.6	2.4	40	<0.1	2.6	4.3	537	1.86	<0.5	0.9	9.3	38	<0.1	<0.1	<0.1	23	1.06
1540868	Rock	4.35	<0.005	1.1	3.2	2.4	41	<0.1	2.0	4.2	542	1.84	<0.5	0.5	10.4	37	<0.1	<0.1	<0.1	21	0.95
1540869	Rock	3.90	<0.005	2.2	7.0	4.1	46	<0.1	2.0	4.1	536	1.82	<0.5	1.1	9.8	45	<0.1	<0.1	0.1	19	1.18
1540870	Rock	3.69	<0.005	1.7	46.2	6.3	42	0.1	1.5	3.7	501	1.77	0.7	<0.5	8.3	55	<0.1	<0.1	0.1	20	1.20
1540871	Rock	3.80	<0.005	4.9	46.6	7.3	40	<0.1	1.7	4.5	670	1.95	<0.5	<0.5	9.3	68	0.2	<0.1	<0.1	21	1.84
1540872	Rock	4.08	<0.005	3.3	90.0	8.3	48	0.1	1.9	4.1	535	1.89	0.6	<0.5	10.1	52	0.2	<0.1	0.4	19	1.38
1540873	Rock	4.10	<0.005	3.1	28.3	6.5	32	<0.1	1.4	3.3	426	1.40	0.7	<0.5	9.7	58	0.1	<0.1	0.1	14	2.04
1540874	Rock	3.97	0.050	7.7	11.3	8.9	36	0.1	1.8	5.0	644	1.65	1.1	37.8	8.7	93	0.1	<0.1	0.3	13	4.62
1540875	Rock	3.67	<0.005	2.2	10.4	4.8	34	<0.1	1.6	3.3	483	1.56	0.6	1.7	10.0	40	<0.1	<0.1	0.1	16	1.79
1540876	Rock	3.88	<0.005	2.9	12.1	3.2	40	<0.1	1.8	4.0	477	1.90	<0.5	<0.5	9.9	30	<0.1	<0.1	0.5	19	0.83
1540877	Rock	4.79	0.014	8.5	53.7	7.5	43	0.1	1.8	4.5	647	1.84	0.8	8.2	9.4	58	0.2	<0.1	2.0	14	2.09
1540878	Rock	4.03	<0.005	7.6	13.8	6.7	38	<0.1	1.8	3.7	700	1.72	0.6	1.6	10.3	73	0.1	<0.1	0.2	13	2.42
1540879	Rock	3.97	<0.005	2.3	3.3	2.1	39	<0.1	2.2	4.1	571	1.87	<0.5	<0.5	11.3	32	<0.1	0.1	<0.1	17	0.80
1540880	Rock	0.15	<0.005	0.3	2.9	4.5	21	0.1	2.6	0.5	119	0.16	2.7	1.9	0.3	303	0.3	1.4	<0.1	15	20.15
1540881	Rock	4.15	<0.005	3.9	4.2	4.2	34	<0.1	1.7	3.7	576	1.81	1.0	0.9	9.7	65	<0.1	0.1	<0.1	18	1.89



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Project: LOO
Report Date: July 25, 2017

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CERTIFICATE OF ANALYSIS

WHI17000222.1

Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
1540857	Rock	0.034	22	11	0.58	83	0.055	<20	1.06	0.035	0.31	0.3	<0.01	4.2	<0.1	<0.05	5	<0.5	<0.2	
1540858	Rock	0.031	29	6	0.35	47	0.019	<20	0.81	0.037	0.21	0.2	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2	
1540859	Rock	0.033	26	7	0.40	84	0.088	<20	0.97	0.036	0.50	0.4	<0.01	4.1	0.1	<0.05	5	<0.5	<0.2	
1540860	Rock Pulp	0.056	7	18	0.84	130	0.142	<20	1.70	0.171	0.22	5.5	0.17	3.0	<0.1	<0.05	5	<0.5	<0.2	
1540861	Rock	0.026	50	6	0.29	78	0.061	<20	0.82	0.047	0.36	0.4	<0.01	3.8	0.1	<0.05	4	<0.5	<0.2	
1540862	Rock	0.031	30	6	0.33	90	0.094	<20	0.89	0.049	0.47	0.5	<0.01	4.3	0.1	<0.05	4	<0.5	<0.2	
1540863	Rock	0.037	28	6	0.39	110	0.102	<20	1.00	0.048	0.53	0.5	<0.01	3.8	0.2	<0.05	4	<0.5	<0.2	
1540864	Rock	0.034	30	6	0.40	102	0.115	<20	0.94	0.057	0.56	0.6	<0.01	4.4	0.1	<0.05	5	<0.5	<0.2	
1540865	Rock	0.030	32	6	0.34	87	0.093	<20	0.89	0.053	0.48	0.5	<0.01	4.1	0.2	<0.05	4	<0.5	<0.2	
1540866	Rock	0.035	27	7	0.39	106	0.100	<20	0.90	0.058	0.50	0.6	<0.01	3.8	0.2	<0.05	4	<0.5	<0.2	
1540867	Rock	0.040	23	7	0.39	91	0.086	<20	0.83	0.061	0.43	0.8	<0.01	3.5	0.1	<0.05	4	<0.5	<0.2	
1540868	Rock	0.032	29	6	0.38	89	0.099	<20	0.85	0.053	0.46	0.8	<0.01	3.5	0.1	<0.05	4	<0.5	<0.2	
1540869	Rock	0.030	27	6	0.34	88	0.091	<20	0.83	0.046	0.42	0.7	<0.01	3.4	0.1	<0.05	5	<0.5	<0.2	
1540870	Rock	0.033	25	6	0.32	97	0.087	<20	0.87	0.040	0.42	0.5	<0.01	3.1	0.2	<0.05	4	<0.5	<0.2	
1540871	Rock	0.032	27	5	0.28	83	0.086	<20	0.85	0.035	0.45	0.4	<0.01	4.6	0.2	<0.05	4	<0.5	<0.2	
1540872	Rock	0.026	29	6	0.24	67	0.053	<20	0.75	0.043	0.32	0.3	<0.01	4.3	0.1	<0.05	4	<0.5	<0.2	
1540873	Rock	0.029	24	5	0.16	81	0.031	<20	0.64	0.013	0.22	0.2	<0.01	4.0	<0.1	<0.05	3	<0.5	<0.2	
1540874	Rock	0.031	23	5	0.10	138	0.007	<20	0.40	0.022	0.18	0.2	<0.01	2.6	<0.1	<0.05	2	<0.5	<0.2	
1540875	Rock	0.027	26	6	0.16	51	0.042	<20	0.62	0.031	0.28	0.3	<0.01	4.3	0.1	<0.05	3	<0.5	<0.2	
1540876	Rock	0.032	24	6	0.29	74	0.083	<20	0.90	0.042	0.47	0.5	<0.01	3.6	0.2	<0.05	4	<0.5	<0.2	
1540877	Rock	0.034	25	5	0.20	188	0.045	<20	0.70	0.021	0.34	0.7	<0.01	3.2	0.1	<0.05	3	<0.5	<0.2	
1540878	Rock	0.034	28	7	0.16	162	0.017	<20	0.55	0.038	0.22	0.4	<0.01	3.4	<0.1	<0.05	2	<0.5	<0.2	
1540879	Rock	0.031	29	7	0.33	58	0.028	<20	0.74	0.047	0.22	0.4	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2	
1540880	Rock	0.017	2	3	11.14	18	0.002	<20	0.10	0.002	0.02	0.2	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2	
1540881	Rock	0.031	26	7	0.17	75	0.037	<20	0.60	0.037	0.25	0.4	<0.01	3.9	<0.1	<0.05	3	<0.5	<0.2	



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Project: LOO
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QUALITY CONTROL REPORT

WHI17000222.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm		
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
1540773	Rock	3.36	<0.005	1.1	8.4	2.9	74	<0.1	2.1	2.9	368	1.50	<0.5	<0.5	13.1	29	0.2	<0.1	<0.1	12	0.91
REP 1540773	QC			1.1	9.0	3.0	74	<0.1	2.1	2.8	366	1.50	<0.5	<0.5	12.9	28	0.1	<0.1	<0.1	13	0.91
1540813	Rock	3.89	<0.005	0.6	5.0	2.8	25	<0.1	2.5	2.3	276	1.12	<0.5	<0.5	12.9	23	<0.1	<0.1	<0.1	9	0.48
REP 1540813	QC		<0.005																		
1540830	Rock	4.22	<0.005	0.9	3.2	2.4	24	<0.1	1.8	2.0	355	1.08	<0.5	<0.5	13.4	23	<0.1	<0.1	<0.1	8	0.93
REP 1540830	QC			0.8	3.2	2.4	26	<0.1	1.8	2.2	364	1.10	<0.5	<0.5	14.0	25	<0.1	<0.1	<0.1	8	0.97
1540838	Rock	3.56	<0.005	1.0	6.0	1.2	65	<0.1	2.0	9.9	1126	3.45	<0.5	0.9	3.5	46	<0.1	<0.1	<0.1	60	0.95
REP 1540838	QC		<0.005																		
1540880	Rock	0.15	<0.005	0.3	2.9	4.5	21	0.1	2.6	0.5	119	0.16	2.7	1.9	0.3	303	0.3	1.4	<0.1	15	20.15
REP 1540880	QC			0.3	1.8	4.5	20	0.1	2.3	0.6	110	0.16	2.9	1.3	0.3	297	0.3	1.4	<0.1	15	20.29
Core Reject Duplicates																					
1540769	Rock	3.80	<0.005	0.8	8.9	5.3	33	<0.1	2.0	2.5	295	1.28	<0.5	0.9	12.5	32	<0.1	<0.1	<0.1	12	1.24
DUP 1540769	QC		<0.005	1.0	8.3	5.2	29	<0.1	1.9	2.5	307	1.28	<0.5	0.8	13.0	34	<0.1	<0.1	<0.1	12	1.28
1540803	Rock	3.99	0.010	1.6	7.3	6.0	47	<0.1	2.8	3.7	430	1.69	0.9	5.5	4.4	64	<0.1	<0.1	<0.1	30	2.10
DUP 1540803	QC		0.009	1.7	9.9	6.1	53	<0.1	3.4	3.7	431	1.67	0.7	6.3	4.4	65	<0.1	0.1	<0.1	30	2.16
1540837	Rock	3.93	<0.005	0.9	8.7	2.4	39	<0.1	3.0	6.2	771	2.27	0.6	1.4	8.9	60	<0.1	<0.1	<0.1	37	1.39
DUP 1540837	QC		<0.005	0.9	9.2	2.5	41	<0.1	3.1	6.2	796	2.28	<0.5	<0.5	9.1	61	<0.1	<0.1	<0.1	38	1.41
1540871	Rock	3.80	<0.005	4.9	46.6	7.3	40	<0.1	1.7	4.5	670	1.95	<0.5	<0.5	9.3	68	0.2	<0.1	<0.1	21	1.84
DUP 1540871	QC		<0.005	5.2	44.1	7.2	37	<0.1	1.7	4.2	651	1.94	<0.5	<0.5	9.5	70	0.2	<0.1	<0.1	21	1.87
Reference Materials																					
STD DS10	Standard			12.8	142.8	142.8	328	1.7	71.0	12.1	819	2.56	42.7	53.4	6.8	60	2.4	7.6	11.8	38	0.95
STD DS10	Standard			13.2	159.6	144.7	362	2.0	72.8	12.8	854	2.69	44.4	146.6	7.5	68	2.6	8.0	12.3	41	1.04
STD DS10	Standard			12.8	139.3	137.4	333	2.3	69.1	12.1	828	2.57	42.9	126.9	6.6	63	2.6	7.3	11.4	39	1.00
STD DS10	Standard			13.0	149.7	137.5	348	1.6	72.4	12.7	845	2.62	42.1	71.9	6.9	62	2.5	8.2	10.8	39	1.00
STD DS10	Standard			13.3	149.4	147.0	348	1.7	71.9	12.8	859	2.67	43.0	61.1	7.6	64	2.5	8.9	11.7	40	1.05
STD OREAS45EA	Standard			1.6	681.1	13.9	30	0.3	370.2	50.5	387	21.46	9.9	51.5	10.4	4	<0.1	0.3	0.3	300	0.04
STD OREAS45EA	Standard			1.5	709.5	15.0	33	0.3	367.5	53.5	405	22.29	9.9	61.9	10.4	4	<0.1	0.3	0.3	299	0.04
STD OREAS45EA	Standard			1.7	680.7	14.1	29	0.2	368.8	50.1	395	21.43	10.8	52.0	10.1	4	<0.1	0.3	0.3	297	0.04



Bureau Veritas Commodities Canada Ltd.
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Project: LOO
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QUALITY CONTROL REPORT

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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																			
1540773	Rock	0.018	26	8	0.21	70	0.059	<20	0.82	0.041	0.38	0.5	<0.01	2.6	0.1	<0.05	4	<0.5	<0.2
REP 1540773	QC	0.020	26	8	0.21	70	0.060	<20	0.82	0.042	0.38	0.6	<0.01	2.6	0.1	<0.05	3	<0.5	<0.2
1540813	Rock	0.014	25	5	0.16	56	0.049	<20	0.58	0.058	0.30	1.1	<0.01	1.8	0.1	<0.05	3	<0.5	<0.2
REP 1540813	QC																		
1540830	Rock	0.013	26	5	0.14	68	0.036	<20	0.56	0.061	0.25	0.6	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
REP 1540830	QC	0.014	27	6	0.15	71	0.038	<20	0.57	0.064	0.26	0.6	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
1540838	Rock	0.068	11	6	1.22	480	0.228	<20	1.84	0.053	1.16	0.4	<0.01	6.0	0.2	<0.05	7	<0.5	<0.2
REP 1540838	QC																		
1540880	Rock	0.017	2	3	11.14	18	0.002	<20	0.10	0.002	0.02	0.2	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
REP 1540880	QC	0.017	2	3	11.28	17	0.002	<20	0.10	0.002	0.02	0.2	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
Core Reject Duplicates																			
1540769	Rock	0.019	25	7	0.20	64	0.047	<20	0.91	0.036	0.33	0.5	<0.01	2.3	0.1	<0.05	4	<0.5	<0.2
DUP 1540769	QC	0.018	25	7	0.19	67	0.050	<20	0.95	0.035	0.34	0.5	<0.01	2.6	0.1	<0.05	4	<0.5	<0.2
1540803	Rock	0.036	15	10	0.29	99	0.028	<20	0.80	0.055	0.25	0.2	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
DUP 1540803	QC	0.037	16	11	0.30	110	0.030	<20	0.79	0.052	0.25	0.3	<0.01	3.9	<0.1	<0.05	4	<0.5	<0.2
1540837	Rock	0.043	22	9	0.73	137	0.146	<20	1.28	0.044	0.77	0.6	<0.01	4.4	0.2	<0.05	6	<0.5	<0.2
DUP 1540837	QC	0.041	22	9	0.73	136	0.145	<20	1.30	0.046	0.77	0.6	<0.01	4.7	0.2	<0.05	6	<0.5	<0.2
1540871	Rock	0.032	27	5	0.28	83	0.086	<20	0.85	0.035	0.45	0.4	<0.01	4.6	0.2	<0.05	4	<0.5	<0.2
DUP 1540871	QC	0.032	30	5	0.28	89	0.088	<20	0.85	0.033	0.45	0.5	<0.01	4.2	0.2	<0.05	4	<0.5	<0.2
Reference Materials																			
STD DS10	Standard	0.071	15	50	0.70	388	0.072	<20	0.93	0.062	0.30	2.9	0.26	2.5	4.9	0.27	4	1.4	4.5
STD DS10	Standard	0.075	17	55	0.75	406	0.082	<20	1.01	0.067	0.33	2.9	0.28	2.8	5.2	0.27	4	1.7	4.6
STD DS10	Standard	0.071	16	51	0.72	409	0.076	<20	0.98	0.063	0.32	2.9	0.26	2.6	4.8	0.27	4	2.2	4.2
STD DS10	Standard	0.069	15	51	0.73	386	0.076	<20	0.99	0.063	0.32	2.6	0.26	2.6	4.5	0.27	4	2.1	4.7
STD DS10	Standard	0.080	17	54	0.77	409	0.084	<20	1.01	0.069	0.32	3.1	0.34	3.0	4.9	0.28	4	1.5	4.8
STD OREAS45EA	Standard	0.026	7	805	0.09	144	0.098	<20	3.14	0.016	0.05	<0.1	<0.01	72.4	<0.1	<0.05	12	<0.5	<0.2
STD OREAS45EA	Standard	0.028	7	847	0.09	154	0.103	<20	3.22	0.013	0.05	<0.1	0.01	76.9	<0.1	<0.05	13	<0.5	<0.2
STD OREAS45EA	Standard	0.028	7	815	0.09	144	0.099	<20	3.14	0.013	0.05	<0.1	0.01	76.6	<0.1	<0.05	13	<0.5	<0.2



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Project: LOO
Report Date: July 25, 2017

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QUALITY CONTROL REPORT

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		WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
STD OREAS45EA	Standard			1.5	696.3	13.9	31	0.3	376.4	52.0	400	22.60	10.2	56.9	10.2	4	<0.1	0.3	0.3	304	0.04	
STD OREAS45EA	Standard			1.6	683.1	14.7	29	0.2	358.6	50.6	395	21.76	11.3	50.0	10.6	4	<0.1	0.3	0.2	295	0.03	
STD OXC145	Standard		0.205																			
STD OXC145	Standard		0.206																			
STD OXH122	Standard		1.267																			
STD OXH122	Standard		1.269																			
STD OXN117	Standard		7.942																			
STD OXN117	Standard		7.890																			
STD DS10 Expected				13.6	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	
STD OREAS45EA Expected				1.6	709	14.3	31.4	0.26	381	52	400	23.51	10.3	53	10.7	3.5	0.03	0.32	0.26	303	0.036	
STD OXN117 Expected			7.679																			
STD OXC145 Expected			0.212																			
STD OXH122 Expected			1.247																			
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
BLK	Blank		<0.005																			
BLK	Blank		<0.005																			
BLK	Blank		<0.005																			
BLK	Blank		0.006																			
Prep Wash																						
ROCK-WHI	Prep Blank		<0.005	0.8	11.5	12.9	48	<0.1	1.8	4.0	538	1.77	1.0	0.6	2.2	24	0.1	<0.1	<0.1	22	0.55	
ROCK-WHI	Prep Blank		0.006	0.9	5.4	5.0	39	<0.1	1.8	3.8	544	1.85	1.2	<0.5	2.2	23	<0.1	<0.1	<0.1	21	0.58	



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Project: LOO
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QUALITY CONTROL REPORT

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		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
STD OREAS45EA	Standard	0.026	7	819	0.09	141	0.098	<20	3.27	0.014	0.05	<0.1	0.02	74.7	<0.1	<0.05	12	0.8	<0.2	
STD OREAS45EA	Standard	0.028	7	807	0.09	140	0.102	<20	3.28	0.023	0.05	<0.1	0.02	80.0	<0.1	<0.05	12	0.6	<0.2	
STD OXC145	Standard																			
STD OXC145	Standard																			
STD OXH122	Standard																			
STD OXH122	Standard																			
STD OXN117	Standard																			
STD OXN117	Standard																			
STD DS10 Expected		0.0765	17.5	54.6	0.775	412	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3	2.3	5.01	
STD OREAS45EA Expected		0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053			78	0.072	0.036	12.4	0.78	0.07	
STD OXN117 Expected																				
STD OXC145 Expected																				
STD OXH122 Expected																				
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
Prep Wash																				
ROCK-WHI	Prep Blank	0.041	5	7	0.48	201	0.080	<20	0.92	0.094	0.09	<0.1	0.01	2.6	<0.1	<0.05	3	<0.5	<0.2	
ROCK-WHI	Prep Blank	0.040	5	9	0.45	86	0.091	<20	1.02	0.131	0.12	0.1	<0.01	2.7	<0.1	<0.05	4	<0.5	<0.2	



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Client: **White Gold Corp.**
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Submitted By: Jodie Gibson
Receiving Lab: Canada-Whitehorse
Received: July 04, 2017
Report Date: July 26, 2017
Page: 1 of 6

CERTIFICATE OF ANALYSIS

WHI17000223.1

CLIENT JOB INFORMATION

Project: LOO
Shipment ID: LOO-20170630-001-PROBE
P.O. Number
Number of Samples: 138

SAMPLE DISPOSAL

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

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

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

CC: Isaac Fage
Shawn Ryan
Greg Dawson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	133	Crush, split and pulverize 250 g rock to 200 mesh			WHI
SLBHP	5	Sort, label and box pulps			WHI
FA430	138	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	138	Environmental disposal charge-Fire assay lead waste			VAN
AQ200	138	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	138	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



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



Bureau Veritas Commodities Canada Ltd.

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Client: **White Gold Corp.**
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Project: LOO
Report Date: July 26, 2017

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CERTIFICATE OF ANALYSIS

WHI17000223.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1625391	Rock	0.72	<0.005	0.5	10.8	4.0	54	<0.1	1.6	3.8	469	1.65	<0.5	<0.5	6.7	11	<0.1	<0.1	0.3	25	0.15
1625392	Rock	0.67	<0.005	1.2	7.3	4.3	44	<0.1	2.4	4.2	384	1.46	2.6	0.6	6.7	18	<0.1	0.1	<0.1	21	0.20
1625393	Rock	0.48	<0.005	0.3	6.3	2.4	34	<0.1	2.3	2.9	249	1.17	<0.5	0.6	4.5	16	<0.1	0.1	<0.1	19	0.13
1625394	Rock	0.43	<0.005	0.2	4.7	2.0	37	<0.1	2.4	3.6	314	1.45	0.5	<0.5	6.8	13	<0.1	<0.1	<0.1	20	0.15
1625395	Rock	0.62	<0.005	0.3	9.6	3.1	36	<0.1	4.6	5.6	446	1.93	0.7	<0.5	10.4	13	<0.1	0.1	<0.1	35	0.22
1625396	Rock	0.72	<0.005	0.3	7.8	3.4	32	<0.1	2.4	4.0	534	1.78	<0.5	<0.5	7.5	8	<0.1	<0.1	<0.1	26	0.15
1625397	Rock	0.61	0.005	0.2	15.8	5.2	49	<0.1	4.7	5.9	658	2.06	<0.5	4.8	7.8	11	0.1	0.1	0.3	35	0.31
1625398	Rock	0.73	<0.005	0.2	5.0	2.7	35	<0.1	2.2	4.3	435	1.72	<0.5	<0.5	8.5	14	<0.1	0.1	<0.1	25	0.20
1625399	Rock	0.64	<0.005	0.2	6.6	3.2	32	<0.1	2.2	3.7	473	1.77	<0.5	1.3	9.1	7	<0.1	<0.1	<0.1	25	0.16
1625400	Rock	0.75	0.032	0.2	8.4	2.3	36	<0.1	1.4	3.9	380	1.64	<0.5	25.7	6.7	8	<0.1	0.1	<0.1	20	0.16
1625401	Rock Pulp	0.12	<0.005	2.3	23.8	2.3	43	0.4	22.4	9.1	403	2.37	4.5	<0.5	0.9	38	0.2	0.3	<0.1	58	0.80
1625402	Rock	0.83	0.007	0.2	6.7	3.8	38	<0.1	1.9	3.7	296	1.64	<0.5	9.1	7.2	26	<0.1	0.2	<0.1	34	1.34
1625403	Rock	0.75	0.024	0.4	24.4	6.6	27	<0.1	1.2	3.0	577	1.35	<0.5	23.7	8.4	38	<0.1	<0.1	<0.1	11	2.42
1625404	Rock	0.66	0.039	0.4	7.7	4.0	24	<0.1	0.9	1.8	377	1.02	<0.5	31.9	8.5	24	<0.1	<0.1	<0.1	8	1.34
1625405	Rock	0.74	0.074	0.6	21.2	4.9	30	<0.1	2.9	2.8	466	1.28	<0.5	59.0	13.2	8	<0.1	0.1	<0.1	13	0.35
1625406	Rock	0.72	0.012	0.5	3.6	3.7	23	<0.1	0.8	1.9	288	0.86	<0.5	7.6	10.6	22	<0.1	<0.1	<0.1	9	0.94
1625407	Rock	0.85	0.020	0.5	8.2	3.8	26	<0.1	1.6	2.4	369	1.18	<0.5	18.6	12.5	5	<0.1	<0.1	<0.1	12	0.15
1625357	Rock	0.69	<0.005	0.3	5.4	2.5	31	<0.1	1.9	3.5	345	1.32	<0.5	<0.5	6.3	12	<0.1	<0.1	<0.1	21	0.14
1625358	Rock	0.93	<0.005	0.6	3.7	2.8	31	<0.1	1.8	3.0	406	1.36	<0.5	<0.5	6.3	10	<0.1	<0.1	<0.1	18	0.15
1625359	Rock	0.84	<0.005	0.6	11.2	4.4	51	<0.1	1.9	4.0	400	1.69	<0.5	<0.5	6.8	10	<0.1	<0.1	0.4	23	0.14
1625360	Rock	0.79	<0.005	4.6	31.9	8.2	59	<0.1	2.1	4.9	669	1.98	<0.5	<0.5	7.7	10	0.2	0.1	0.5	27	0.20
1625361	Rock	0.88	<0.005	2.5	14.8	4.9	46	<0.1	2.7	4.8	553	1.98	<0.5	<0.5	9.0	11	0.1	0.1	0.3	26	0.27
1625362	Rock	0.81	<0.005	1.1	15.6	3.3	37	<0.1	2.4	4.2	503	1.90	<0.5	<0.5	8.8	7	<0.1	<0.1	0.2	27	0.13
1625363	Rock	0.71	<0.005	0.5	5.8	3.3	30	<0.1	1.4	3.7	426	1.67	<0.5	<0.5	10.0	19	<0.1	<0.1	<0.1	25	0.33
1625364	Rock	0.90	0.011	0.7	8.7	5.7	37	<0.1	3.0	4.2	672	2.08	<0.5	<0.5	10.5	7	<0.1	0.1	<0.1	26	0.31
1625365	Rock	0.86	<0.005	0.5	7.9	6.7	34	<0.1	1.8	3.7	579	1.63	<0.5	1.3	5.7	39	<0.1	<0.1	<0.1	24	2.49
1625366	Rock	0.85	0.033	0.6	36.8	4.0	28	<0.1	1.7	3.2	370	1.27	<0.5	25.8	8.9	5	<0.1	0.1	0.2	12	0.14
1625367	Rock	0.93	0.160	1.4	37.4	3.5	26	0.1	1.4	3.7	432	1.12	<0.5	109.9	7.7	7	<0.1	<0.1	0.3	8	0.18
1625368	Rock	0.83	0.025	0.5	26.4	4.5	32	<0.1	1.2	3.2	403	1.28	0.6	17.4	7.7	9	<0.1	0.1	<0.1	15	0.42
1625369	Rock	0.86	<0.005	0.3	5.7	2.7	30	<0.1	1.1	3.3	375	1.39	<0.5	4.0	8.8	8	<0.1	0.1	<0.1	13	0.24



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Method Analyte Unit MDL	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	
1625391	Rock	0.031	21	3	0.36	108	0.076	<20	0.85	0.038	0.42	<0.1	<0.01	3.4	0.2	<0.05	4	<0.5	<0.2
1625392	Rock	0.037	15	3	0.41	75	0.034	<20	0.83	0.039	0.20	<0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
1625393	Rock	0.021	14	3	0.28	94	0.052	<20	0.73	0.043	0.23	<0.1	<0.01	2.0	0.1	<0.05	4	<0.5	<0.2
1625394	Rock	0.027	14	3	0.36	97	0.056	<20	0.82	0.041	0.31	<0.1	<0.01	1.9	0.1	<0.05	4	<0.5	<0.2
1625395	Rock	0.034	26	6	0.54	127	0.106	<20	1.14	0.033	0.43	<0.1	<0.01	3.4	0.2	<0.05	5	<0.5	<0.2
1625396	Rock	0.031	23	2	0.34	99	0.075	<20	0.82	0.031	0.40	<0.1	<0.01	3.7	0.1	<0.05	4	<0.5	<0.2
1625397	Rock	0.049	39	3	0.54	121	0.080	<20	1.07	0.028	0.42	<0.1	<0.01	5.3	0.2	<0.05	5	<0.5	<0.2
1625398	Rock	0.040	20	2	0.43	112	0.061	<20	0.84	0.040	0.32	<0.1	<0.01	2.9	0.1	<0.05	4	<0.5	<0.2
1625399	Rock	0.034	33	2	0.34	111	0.095	<20	0.94	0.022	0.46	<0.1	<0.01	4.3	0.1	<0.05	4	<0.5	<0.2
1625400	Rock	0.034	24	2	0.33	95	0.069	<20	0.84	0.025	0.36	<0.1	<0.01	3.0	0.1	<0.05	4	<0.5	<0.2
1625401	Rock Pulp	0.056	4	29	0.77	94	0.129	<20	1.55	0.077	0.13	12.1	0.03	4.6	<0.1	<0.05	5	<0.5	<0.2
1625402	Rock	0.053	21	6	0.28	109	0.054	<20	0.87	0.003	0.40	<0.1	<0.01	4.6	0.1	<0.05	4	<0.5	<0.2
1625403	Rock	0.028	30	2	0.08	104	0.008	<20	0.41	0.002	0.13	<0.1	0.02	3.0	<0.1	<0.05	2	<0.5	<0.2
1625404	Rock	0.019	20	2	0.06	104	0.006	<20	0.37	0.002	0.11	<0.1	0.03	2.4	<0.1	<0.05	2	<0.5	<0.2
1625405	Rock	0.020	29	4	0.11	89	0.023	<20	0.55	0.005	0.17	<0.1	0.03	2.7	<0.1	<0.05	3	<0.5	<0.2
1625406	Rock	0.020	16	1	0.10	58	0.011	<20	0.53	0.002	0.15	<0.1	0.01	2.1	<0.1	<0.05	2	<0.5	<0.2
1625407	Rock	0.019	28	2	0.09	72	0.021	<20	0.46	0.001	0.16	<0.1	<0.01	2.7	<0.1	<0.05	2	<0.5	<0.2
1625357	Rock	0.023	8	3	0.31	79	0.059	<20	0.81	0.037	0.32	<0.1	<0.01	2.4	0.1	<0.05	4	<0.5	<0.2
1625358	Rock	0.025	17	3	0.29	84	0.062	<20	0.74	0.031	0.33	<0.1	<0.01	2.3	0.1	<0.05	4	<0.5	<0.2
1625359	Rock	0.031	16	2	0.38	103	0.069	<20	0.87	0.039	0.37	<0.1	<0.01	2.6	0.2	<0.05	4	<0.5	<0.2
1625360	Rock	0.032	29	2	0.36	129	0.061	<20	0.93	0.027	0.34	<0.1	<0.01	4.2	0.1	<0.05	5	<0.5	<0.2
1625361	Rock	0.035	30	2	0.27	117	0.057	<20	0.82	0.015	0.32	<0.1	<0.01	4.6	0.1	<0.05	4	<0.5	<0.2
1625362	Rock	0.033	17	3	0.36	96	0.106	<20	0.92	0.025	0.51	<0.1	<0.01	4.5	0.2	<0.05	5	<0.5	<0.2
1625363	Rock	0.029	27	2	0.30	89	0.091	<20	0.95	0.016	0.49	<0.1	<0.01	4.1	0.2	<0.05	5	<0.5	<0.2
1625364	Rock	0.038	38	2	0.21	107	0.059	<20	0.77	0.003	0.34	<0.1	<0.01	4.9	0.1	<0.05	3	<0.5	<0.2
1625365	Rock	0.029	34	6	0.17	89	0.026	<20	0.62	0.002	0.23	<0.1	0.02	4.6	<0.1	<0.05	3	<0.5	<0.2
1625366	Rock	0.032	28	3	0.06	83	0.010	<20	0.46	0.008	0.19	<0.1	0.02	3.2	<0.1	<0.05	2	<0.5	<0.2
1625367	Rock	0.032	28	2	0.18	126	0.005	<20	0.55	0.026	0.22	<0.1	0.03	2.3	<0.1	<0.05	2	<0.5	0.2
1625368	Rock	0.031	27	2	0.11	101	0.016	<20	0.47	0.021	0.17	<0.1	0.02	2.9	<0.1	<0.05	2	<0.5	<0.2
1625369	Rock	0.029	27	2	0.20	83	0.025	<20	0.62	0.027	0.24	<0.1	<0.01	2.6	<0.1	<0.05	2	<0.5	<0.2



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Method Analyte Unit MDL	WGHT Wgt kg	FA430 Au ppm	AQ200 Mo ppm	AQ200 Cu ppm	AQ200 Pb ppm	AQ200 Zn ppm	AQ200 Ag ppm	AQ200 Ni ppm	AQ200 Co ppm	AQ200 Mn ppm	AQ200 Fe %	AQ200 As ppm	AQ200 Au ppb	AQ200 Th ppm	AQ200 Sr ppm	AQ200 Cd ppm	AQ200 Sb ppm	AQ200 Bi ppm	AQ200 V ppm	AQ200 Ca %	
	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1625370	Rock	0.85	0.007	0.3	6.6	2.1	34	<0.1	2.0	3.5	437	1.69	<0.5	5.2	9.2	8	<0.1	<0.1	<0.1	18	0.14
1625371	Rock	0.86	0.009	0.4	8.4	2.6	30	<0.1	2.6	3.2	471	1.43	0.6	6.2	12.8	8	<0.1	<0.1	<0.1	18	0.10
1625372	Rock	0.79	0.008	0.4	5.3	4.0	43	<0.1	1.8	4.7	583	2.06	0.6	4.7	11.2	11	<0.1	<0.1	<0.1	30	0.49
1625373	Rock	0.81	0.009	0.4	10.4	4.6	31	<0.1	4.5	3.0	367	1.27	1.3	6.5	14.0	7	<0.1	0.1	<0.1	15	0.15
1625374	Rock	0.89	0.009	0.6	10.0	3.4	32	<0.1	3.9	3.2	325	1.34	1.2	7.3	11.2	11	<0.1	0.1	<0.1	18	0.14
1625375	Rock	0.91	0.007	0.5	4.9	3.1	36	<0.1	2.7	2.4	421	1.27	0.6	3.9	14.2	9	<0.1	0.1	<0.1	14	0.13
1625376	Rock Pulp	0.12	<0.005	2.3	23.1	2.3	43	0.2	22.4	10.4	403	2.37	4.3	1.2	0.8	40	0.1	0.2	<0.1	58	0.80
1625377	Rock	0.93	0.005	0.6	5.3	2.9	30	<0.1	2.7	2.3	355	1.29	0.6	5.0	14.2	8	<0.1	<0.1	<0.1	14	0.11
1625378	Rock	0.99	0.012	0.7	8.5	3.3	27	<0.1	3.1	2.8	300	1.21	1.2	6.0	14.1	8	<0.1	0.1	<0.1	14	0.16
1625379	Rock	0.83	0.012	0.5	11.0	4.7	33	<0.1	8.1	4.5	346	1.55	2.2	9.2	11.8	14	<0.1	0.2	<0.1	24	0.20
1625380	Rock	0.81	0.009	0.5	8.4	4.0	30	<0.1	3.8	3.0	334	1.28	0.8	7.2	13.2	11	<0.1	0.1	<0.1	17	0.23
1625381	Rock	0.77	0.011	0.5	6.6	5.4	39	<0.1	3.1	3.3	415	1.60	0.8	7.0	13.7	17	<0.1	0.1	<0.1	18	0.65
1625382	Rock	0.88	0.013	0.6	10.3	4.0	31	<0.1	5.9	3.3	288	1.27	1.4	7.8	11.1	13	<0.1	0.2	<0.1	19	0.17
1625383	Rock	0.49	0.013	0.5	9.6	4.5	35	<0.1	6.4	3.9	323	1.42	2.1	9.6	9.3	14	<0.1	0.2	<0.1	22	0.19
1625384	Rock	0.88	0.010	0.6	10.0	4.5	33	<0.1	4.7	3.1	329	1.37	1.2	7.9	12.3	11	<0.1	0.2	<0.1	18	0.21
1625385	Rock	0.73	0.022	0.6	11.2	4.0	28	<0.1	7.9	4.8	280	1.37	3.0	9.4	6.6	17	<0.1	0.2	<0.1	26	0.23
1625386	Rock	0.72	0.008	0.7	15.7	5.4	34	<0.1	12.4	6.2	290	1.75	5.4	3.4	5.4	25	<0.1	0.3	<0.1	37	0.34
1625387	Rock	0.79	0.014	0.6	15.7	5.1	33	<0.1	11.9	6.1	318	1.73	4.8	24.1	5.1	23	<0.1	0.3	<0.1	36	0.34
1625388	Rock	0.82	0.008	0.7	16.3	5.1	33	<0.1	11.7	6.0	263	1.66	5.3	2.6	5.4	25	<0.1	0.3	<0.1	34	0.33
1625389	Rock	0.30	0.008	0.7	9.6	3.5	26	<0.1	7.4	4.4	215	1.27	2.9	2.6	5.3	18	<0.1	0.2	<0.1	25	0.23
1625390	Rock	0.57	<0.005	0.9	12.5	3.9	25	<0.1	9.0	4.9	222	1.32	4.7	1.0	4.2	22	<0.1	0.3	<0.1	27	0.26
1625494	Rock	0.61	<0.005	0.4	8.2	2.4	31	<0.1	1.7	3.0	274	1.20	<0.5	<0.5	8.2	6	<0.1	<0.1	<0.1	16	0.11
1625495	Rock	0.71	<0.005	0.3	5.2	4.9	25	<0.1	2.7	1.1	270	0.76	0.9	<0.5	1.3	7	<0.1	<0.1	<0.1	7	0.09
1625496	Rock	0.87	<0.005	0.3	3.3	4.9	15	<0.1	1.4	0.6	77	0.45	<0.5	<0.5	0.9	10	<0.1	<0.1	<0.1	5	0.07
1625497	Rock	0.64	<0.005	0.2	4.3	3.2	30	<0.1	1.1	2.4	339	1.07	2.2	0.8	9.6	6	<0.1	0.1	<0.1	10	0.11
1625498	Rock	0.78	0.005	0.6	5.0	5.3	23	<0.1	0.9	2.2	315	0.89	2.5	1.1	5.9	20	<0.1	0.1	<0.1	9	1.18
1625499	Rock	0.76	<0.005	0.5	3.8	4.6	28	<0.1	0.9	2.4	301	1.01	1.8	1.2	8.3	27	<0.1	<0.1	<0.1	10	1.56
1625500	Rock	0.95	<0.005	0.3	3.8	3.7	46	<0.1	1.2	2.6	406	1.19	<0.5	1.0	6.1	9	<0.1	<0.1	<0.1	14	0.13
1625339	Rock	0.71	0.016	0.5	5.7	3.9	30	<0.1	2.2	2.7	320	1.21	1.0	10.5	14.4	15	<0.1	0.1	<0.1	13	0.61
1625340	Rock	0.64	0.015	0.5	9.5	3.7	24	<0.1	6.8	3.9	306	1.24	2.5	8.1	10.0	14	<0.1	0.1	<0.1	21	0.23



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Method Analyte	Unit	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
MDL		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
1625370	Rock	0.028	30	3	0.33	110	0.077	<20	0.84	0.034	0.44	<0.1	0.01	3.2	0.1	<0.05	4	<0.5	<0.2	
1625371	Rock	0.021	24	4	0.21	110	0.054	<20	0.63	0.036	0.27	<0.1	0.01	3.6	0.1	<0.05	4	<0.5	<0.2	
1625372	Rock	0.034	39	3	0.36	120	0.109	<20	1.04	0.005	0.55	<0.1	0.01	4.8	0.2	<0.05	5	<0.5	<0.2	
1625373	Rock	0.027	29	6	0.15	88	0.035	<20	0.73	0.019	0.22	<0.1	0.01	3.1	<0.1	<0.05	3	<0.5	<0.2	
1625374	Rock	0.021	20	6	0.18	88	0.051	<20	0.71	0.035	0.21	<0.1	<0.01	3.1	0.1	<0.05	3	<0.5	<0.2	
1625375	Rock	0.023	32	5	0.20	87	0.047	<20	0.68	0.031	0.26	0.1	0.01	2.9	<0.1	<0.05	3	<0.5	<0.2	
1625376	Rock Pulp	0.062	4	31	0.76	97	0.128	<20	1.56	0.078	0.13	13.1	0.01	4.6	<0.1	<0.05	5	<0.5	<0.2	
1625377	Rock	0.023	27	4	0.18	80	0.048	<20	0.62	0.030	0.26	<0.1	<0.01	2.9	0.1	<0.05	3	<0.5	<0.2	
1625378	Rock	0.023	35	4	0.15	81	0.039	<20	0.71	0.026	0.23	<0.1	0.01	3.1	<0.1	<0.05	3	<0.5	<0.2	
1625379	Rock	0.027	28	9	0.20	126	0.053	<20	0.86	0.027	0.17	<0.1	0.01	3.7	<0.1	<0.05	3	<0.5	<0.2	
1625380	Rock	0.026	28	5	0.17	98	0.039	<20	0.72	0.028	0.23	<0.1	<0.01	2.5	0.1	<0.05	3	<0.5	<0.2	
1625381	Rock	0.026	36	4	0.19	97	0.045	<20	0.82	0.016	0.25	<0.1	0.02	3.5	0.1	<0.05	4	<0.5	<0.2	
1625382	Rock	0.024	24	8	0.19	113	0.047	<20	0.76	0.028	0.19	<0.1	0.02	2.9	<0.1	<0.05	3	<0.5	<0.2	
1625383	Rock	0.026	23	7	0.18	122	0.042	<20	0.83	0.032	0.17	<0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2	
1625384	Rock	0.023	28	6	0.14	101	0.031	<20	0.64	0.027	0.16	<0.1	<0.01	3.3	<0.1	<0.05	3	<0.5	<0.2	
1625385	Rock	0.025	14	11	0.22	133	0.051	<20	0.86	0.033	0.14	<0.1	0.01	2.8	0.1	<0.05	3	<0.5	<0.2	
1625386	Rock	0.030	14	18	0.31	198	0.062	<20	1.15	0.036	0.09	<0.1	0.02	3.8	<0.1	<0.05	4	<0.5	<0.2	
1625387	Rock	0.031	14	16	0.30	193	0.057	<20	1.14	0.033	0.10	<0.1	0.02	3.5	<0.1	<0.05	3	<0.5	<0.2	
1625388	Rock	0.028	13	17	0.28	191	0.061	<20	1.07	0.036	0.10	<0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2	
1625389	Rock	0.024	11	11	0.20	129	0.044	<20	0.79	0.035	0.12	<0.1	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2	
1625390	Rock	0.024	10	13	0.20	164	0.043	<20	0.79	0.040	0.08	0.1	0.01	2.7	<0.1	<0.05	3	<0.5	<0.2	
1625494	Rock	0.026	23	2	0.20	154	0.044	<20	0.67	0.028	0.27	<0.1	<0.01	2.6	0.1	<0.05	3	<0.5	<0.2	
1625495	Rock	0.014	6	2	0.03	75	0.002	<20	0.36	0.033	0.05	<0.1	0.01	2.2	<0.1	<0.05	1	<0.5	<0.2	
1625496	Rock	0.014	6	2	0.02	52	0.002	<20	0.29	0.054	0.05	<0.1	<0.01	1.6	<0.1	<0.05	1	<0.5	<0.2	
1625497	Rock	0.021	17	1	0.10	79	0.018	<20	0.47	0.024	0.15	<0.1	0.02	2.5	<0.1	<0.05	2	<0.5	<0.2	
1625498	Rock	0.024	20	2	0.05	61	0.001	<20	0.53	0.008	0.12	0.2	0.04	2.6	<0.1	<0.05	2	<0.5	<0.2	
1625499	Rock	0.021	17	1	0.06	85	0.002	<20	0.44	0.006	0.11	<0.1	0.02	2.7	<0.1	<0.05	2	<0.5	<0.2	
1625500	Rock	0.021	21	2	0.15	100	0.027	<20	0.66	0.033	0.18	<0.1	0.02	2.8	<0.1	<0.05	3	<0.5	<0.2	
1625339	Rock	0.022	30	3	0.13	82	0.027	<20	0.63	0.007	0.17	<0.1	<0.01	2.7	<0.1	<0.05	3	<0.5	<0.2	
1625340	Rock	0.023	19	8	0.19	118	0.038	<20	0.76	0.024	0.12	<0.1	<0.01	2.9	<0.1	<0.05	3	<0.5	<0.2	



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Method Analyte Unit MDL	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1625341	Rock	0.60	0.028	0.5	7.0	4.4	33	<0.1	2.6	2.9	372	1.34	0.9	19.0	12.1	17	<0.1	<0.1	<0.1	17	0.80
1625342	Rock	0.57	0.012	0.6	9.7	3.8	28	<0.1	7.0	4.1	294	1.31	2.5	4.5	7.1	14	<0.1	0.2	<0.1	24	0.22
1625343	Rock	0.66	0.009	0.7	11.7	4.1	29	<0.1	7.9	4.6	293	1.43	2.7	3.9	7.3	16	<0.1	0.2	<0.1	25	0.24
1625344	Rock	0.89	0.006	0.9	11.0	4.3	30	<0.1	7.4	4.5	277	1.35	2.9	3.7	8.2	15	<0.1	0.2	<0.1	23	0.21
1625345	Rock	0.86	0.011	0.7	9.6	4.2	31	<0.1	4.3	3.7	300	1.32	1.1	6.3	10.1	11	<0.1	0.1	<0.1	21	0.17
1625346	Rock	0.72	0.008	0.6	9.1	4.0	30	<0.1	5.8	3.6	264	1.29	1.9	2.5	8.4	13	<0.1	0.2	<0.1	22	0.18
1625347	Rock	0.91	0.007	0.5	6.7	3.5	25	<0.1	3.5	2.9	224	1.16	1.0	3.3	9.9	9	<0.1	0.1	<0.1	17	0.15
1625348	Rock	0.84	0.007	0.6	8.3	3.9	29	<0.1	4.7	3.9	226	1.34	1.5	3.0	9.0	10	<0.1	0.1	<0.1	22	0.18
1625349	Rock	0.82	0.013	0.3	9.7	4.2	29	<0.1	5.7	4.2	240	1.37	2.1	6.0	6.9	13	<0.1	0.2	<0.1	24	0.23
1625350	Rock	0.71	0.007	0.6	10.5	4.6	29	<0.1	8.2	5.0	276	1.36	3.3	5.9	5.2	16	<0.1	0.2	<0.1	28	0.24
1625351	Rock Pulp	0.12	<0.005	2.1	21.2	2.2	40	0.2	22.4	9.8	390	2.30	4.4	1.3	0.9	37	0.2	0.3	<0.1	57	0.80
1625352	Rock	0.83	0.013	0.7	8.8	4.3	28	<0.1	5.1	4.1	235	1.31	1.6	3.8	6.8	11	<0.1	0.2	<0.1	23	0.18
1625353	Rock	0.79	<0.005	0.4	10.7	4.4	42	<0.1	3.3	5.4	581	1.93	1.6	1.3	9.7	22	<0.1	0.1	<0.1	30	1.03
1625354	Rock	1.02	<0.005	0.8	9.4	4.2	28	<0.1	5.7	3.9	196	1.25	2.5	2.6	6.8	13	<0.1	0.2	<0.1	22	0.20
1625355	Rock	0.73	<0.005	0.4	5.9	4.0	26	<0.1	3.9	3.1	206	1.13	1.4	1.3	8.5	9	<0.1	0.1	<0.1	18	0.16
1625356	Rock	0.66	<0.005	0.6	9.3	4.1	25	<0.1	5.6	3.8	256	1.19	2.2	0.7	6.0	13	<0.1	0.1	<0.1	23	0.19
1625288	Rock	0.78	<0.005	0.6	6.2	6.0	45	<0.1	3.4	4.6	557	1.79	4.0	1.6	8.0	12	<0.1	0.3	<0.1	23	0.42
1625289	Rock	0.73	<0.005	0.3	3.6	3.2	33	<0.1	1.8	2.6	297	1.31	2.1	0.7	5.0	9	<0.1	0.1	<0.1	17	0.80
1625290	Rock	0.78	<0.005	0.3	4.9	3.1	38	<0.1	2.3	4.4	413	1.85	1.7	<0.5	11.2	11	<0.1	0.1	<0.1	26	0.16
1625291	Rock	0.71	<0.005	0.4	7.3	3.5	37	<0.1	5.6	4.3	338	1.66	2.8	<0.5	6.5	12	<0.1	0.1	<0.1	23	0.17
1625292	Rock	0.85	<0.005	0.7	7.2	2.7	40	<0.1	2.8	3.9	481	1.76	1.3	<0.5	8.5	15	<0.1	0.1	<0.1	26	0.17
1625293	Rock	0.71	<0.005	0.6	2.9	3.4	36	<0.1	4.2	5.6	575	2.03	3.0	1.3	8.8	12	<0.1	0.1	<0.1	26	0.31
1625294	Rock	0.86	0.014	0.6	2.3	3.5	38	<0.1	1.9	4.0	503	1.73	0.8	9.2	10.4	17	<0.1	<0.1	<0.1	14	1.21
1625295	Rock	0.76	0.056	0.5	63.4	4.0	33	0.4	2.0	4.0	382	1.37	0.6	54.4	9.1	19	<0.1	<0.1	<0.1	9	1.08
1625296	Rock	0.77	0.628	1.1	4.9	4.5	15	1.2	2.0	5.0	285	1.10	0.8	645.4	10.7	11	<0.1	<0.1	0.2	4	0.42
1625297	Rock	0.88	0.087	0.4	6.0	4.5	16	0.1	1.1	2.8	196	0.79	<0.5	73.6	12.0	8	<0.1	<0.1	<0.1	4	0.16
1625298	Rock	0.81	0.072	0.6	15.0	3.1	32	<0.1	3.1	2.7	266	1.10	<0.5	62.4	8.3	9	<0.1	<0.1	<0.1	12	0.10
1625299	Rock	0.65	0.038	1.4	49.3	5.5	79	0.1	26.0	20.6	1090	3.80	1.0	44.1	5.8	50	0.1	0.3	<0.1	100	3.41
1625300	Rock	0.79	0.026	0.8	11.0	3.6	39	<0.1	3.2	4.7	534	1.61	0.8	17.5	10.9	11	<0.1	0.1	<0.1	19	0.23
1625301	Rock Pulp	0.12	<0.005	2.2	23.1	2.4	42	0.3	23.4	9.7	400	2.39	4.2	<0.5	0.9	39	0.2	0.3	<0.1	59	0.83



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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	AQ200 P %	AQ200 La ppm	AQ200 Cr ppm	AQ200 Mg %	AQ200 Ba ppm	AQ200 Ti %	AQ200 B ppm	AQ200 Al %	AQ200 Na %	AQ200 K %	AQ200 W ppm	AQ200 Hg ppm	AQ200 Sc ppm	AQ200 Ti ppm	AQ200 S %	AQ200 Ga ppm	AQ200 Se ppm	AQ200 Te ppm	
1625341	Rock	0.020	29	4	0.16	95	0.031	<20	0.76	0.012	0.19	<0.1	<0.01	2.9	<0.1	<0.05	3	<0.5	<0.2
1625342	Rock	0.022	15	9	0.20	123	0.045	<20	0.88	0.030	0.16	<0.1	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
1625343	Rock	0.024	15	11	0.23	138	0.042	<20	0.86	0.030	0.14	<0.1	<0.01	2.7	<0.1	<0.05	3	<0.5	<0.2
1625344	Rock	0.024	18	12	0.20	134	0.040	<20	0.83	0.030	0.14	0.2	<0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
1625345	Rock	0.023	20	7	0.20	104	0.036	<20	0.83	0.027	0.18	<0.1	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
1625346	Rock	0.022	15	8	0.20	102	0.043	<20	0.79	0.030	0.16	<0.1	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
1625347	Rock	0.023	18	6	0.17	82	0.037	<20	0.74	0.029	0.18	<0.1	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
1625348	Rock	0.020	20	8	0.19	82	0.050	<20	0.83	0.024	0.18	<0.1	<0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
1625349	Rock	0.028	16	8	0.19	103	0.044	<20	0.79	0.033	0.16	<0.1	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
1625350	Rock	0.021	13	12	0.21	146	0.048	<20	0.90	0.030	0.12	<0.1	0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
1625351	Rock Pulp	0.056	4	27	0.74	88	0.111	<20	1.49	0.076	0.12	11.0	<0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
1625352	Rock	0.021	13	9	0.17	97	0.043	<20	0.69	0.027	0.16	<0.1	<0.01	2.7	<0.1	<0.05	3	<0.5	<0.2
1625353	Rock	0.050	24	4	0.39	140	0.061	<20	1.01	0.014	0.39	<0.1	<0.01	3.9	0.2	<0.05	4	<0.5	<0.2
1625354	Rock	0.025	13	9	0.16	110	0.036	<20	0.73	0.024	0.14	0.1	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
1625355	Rock	0.022	16	6	0.13	80	0.037	<20	0.69	0.020	0.16	<0.1	<0.01	2.1	<0.1	<0.05	2	<0.5	<0.2
1625356	Rock	0.019	10	8	0.15	117	0.042	<20	0.82	0.019	0.13	<0.1	<0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
1625288	Rock	0.033	28	3	0.13	164	0.033	<20	0.65	0.006	0.19	<0.1	0.02	4.2	0.1	<0.05	3	<0.5	<0.2
1625289	Rock	0.023	17	3	0.08	68	0.015	<20	0.57	0.012	0.15	<0.1	0.01	3.8	<0.1	<0.05	2	<0.5	<0.2
1625290	Rock	0.031	37	3	0.38	137	0.094	<20	1.12	0.027	0.53	<0.1	0.02	4.1	0.2	<0.05	5	<0.5	<0.2
1625291	Rock	0.029	23	7	0.28	119	0.043	<20	0.88	0.030	0.24	<0.1	0.01	3.7	0.1	<0.05	4	<0.5	<0.2
1625292	Rock	0.032	20	6	0.35	154	0.059	<20	0.98	0.041	0.37	<0.1	0.01	3.6	0.2	<0.05	5	<0.5	<0.2
1625293	Rock	0.043	29	7	0.35	150	0.063	<20	0.99	0.026	0.39	<0.1	0.02	5.1	0.2	<0.05	5	<0.5	<0.2
1625294	Rock	0.032	33	3	0.05	94	0.003	<20	0.49	0.005	0.10	<0.1	0.01	3.3	<0.1	<0.05	1	<0.5	<0.2
1625295	Rock	0.026	24	4	0.09	97	0.004	<20	0.49	0.036	0.20	<0.1	<0.01	1.8	<0.1	<0.05	2	<0.5	<0.2
1625296	Rock	0.022	25	4	0.04	102	0.002	<20	0.38	0.031	0.22	<0.1	0.02	0.8	<0.1	<0.05	1	<0.5	0.8
1625297	Rock	0.016	24	2	0.02	74	0.003	<20	0.33	0.045	0.13	<0.1	0.01	0.9	<0.1	<0.05	1	<0.5	<0.2
1625298	Rock	0.019	20	5	0.17	88	0.013	<20	0.55	0.040	0.14	<0.1	0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
1625299	Rock	0.057	15	25	0.67	287	0.044	<20	1.25	0.015	0.34	<0.1	<0.01	20.6	0.2	<0.05	5	<0.5	<0.2
1625300	Rock	0.034	26	5	0.29	125	0.024	<20	0.78	0.032	0.22	<0.1	<0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
1625301	Rock Pulp	0.059	4	29	0.77	99	0.124	<20	1.59	0.079	0.13	11.3	0.01	4.5	<0.1	<0.05	5	<0.5	<0.2



CERTIFICATE OF ANALYSIS WHI17000223.1

Table with columns: Method, Analyte, Unit, MDL, and various analytes (WGHT, FA430, AQ200, etc.) and their corresponding values for 20 different rock samples.

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	AQ200																			
	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te		
	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
1625302	Rock	0.031	26	6	0.23	140	0.012	<20	0.67	0.030	0.15	<0.1	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2	
1625303	Rock	0.029	31	4	0.70	182	0.036	<20	1.31	0.048	0.29	<0.1	0.01	3.0	0.1	<0.05	6	<0.5	<0.2	
1625304	Rock	0.022	24	7	0.19	139	0.014	<20	0.72	0.039	0.19	<0.1	0.01	1.9	<0.1	<0.05	3	<0.5	<0.2	
1601013	Rock	0.024	27	5	0.09	112	0.015	<20	0.68	0.016	0.15	<0.1	0.01	3.3	<0.1	<0.05	3	<0.5	<0.2	
1601014	Rock	0.028	15	14	0.29	175	0.065	<20	1.05	0.038	0.15	<0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2	
1601015	Rock	0.026	11	8	0.24	123	0.057	<20	0.89	0.041	0.19	<0.1	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2	
1601016	Rock	0.024	9	9	0.25	117	0.057	<20	0.78	0.041	0.15	<0.1	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2	
1601017	Rock	0.034	14	7	0.23	117	0.043	<20	0.81	0.020	0.24	<0.1	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2	
1601018	Rock	0.034	23	7	0.21	102	0.049	<20	1.05	0.016	0.23	<0.1	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2	
1601019	Rock	0.031	10	9	0.23	116	0.049	<20	0.83	0.042	0.14	<0.1	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2	
1601020	Rock	0.022	9	11	0.28	128	0.059	<20	0.88	0.045	0.12	<0.1	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2	
1601021	Rock	0.011	2	7	0.09	47	0.018	<20	0.33	0.083	0.05	0.2	<0.01	0.7	<0.1	<0.05	2	<0.5	<0.2	
1601022	Rock	0.036	14	8	0.31	117	0.042	<20	0.89	0.040	0.21	<0.1	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2	
1601023	Rock	0.018	11	15	0.22	140	0.056	<20	0.70	0.062	0.11	<0.1	0.01	2.1	<0.1	<0.05	3	<0.5	<0.2	
1601024	Rock	0.015	10	11	0.23	113	0.062	<20	0.70	0.062	0.16	<0.1	<0.01	1.7	<0.1	<0.05	3	<0.5	<0.2	
1601025	Rock	0.018	8	13	0.23	122	0.048	<20	0.80	0.057	0.15	<0.1	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2	
1601026	Rock	0.013	2	5	10.68	16	0.003	<20	0.09	0.002	0.01	0.2	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2	
1601027	Rock	0.020	8	11	0.23	107	0.061	<20	0.79	0.051	0.17	<0.1	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2	
1601028	Rock	0.019	9	13	0.21	128	0.060	<20	0.70	0.071	0.14	<0.1	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2	
1601029	Rock	0.021	8	11	0.22	126	0.065	<20	0.70	0.063	0.14	<0.1	<0.01	1.7	<0.1	<0.05	3	<0.5	<0.2	
1625305	Rock	0.021	23	8	0.15	112	0.013	<20	0.66	0.034	0.20	<0.1	<0.01	1.9	<0.1	<0.05	2	<0.5	<0.2	
1625306	Rock	0.015	17	15	0.23	127	0.055	<20	0.92	0.032	0.12	<0.1	0.01	3.0	<0.1	<0.05	3	<0.5	<0.2	
1625307	Rock	0.027	15	21	0.31	179	0.072	<20	1.11	0.048	0.14	<0.1	0.03	3.7	<0.1	<0.05	4	<0.5	<0.2	
1625308	Rock	0.022	14	25	0.37	231	0.081	<20	1.37	0.048	0.10	<0.1	0.03	4.4	<0.1	<0.05	4	<0.5	<0.2	
1625309	Rock	0.024	13	4	0.04	59	0.002	<20	0.45	0.014	0.22	<0.1	0.01	1.1	<0.1	<0.05	1	<0.5	<0.2	
1625310	Rock	0.024	12	20	0.27	175	0.068	<20	1.05	0.044	0.14	<0.1	0.01	3.1	<0.1	<0.05	3	<0.5	<0.2	
1625311	Rock	0.029	14	25	0.36	259	0.087	<20	1.36	0.050	0.10	<0.1	0.02	4.3	<0.1	<0.05	4	<0.5	<0.2	
1625312	Rock	0.030	14	23	0.37	265	0.080	<20	1.29	0.039	0.09	<0.1	0.03	4.0	<0.1	<0.05	4	<0.5	<0.2	
1625313	Rock	0.024	11	22	0.30	200	0.074	<20	1.11	0.045	0.08	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2	
1625314	Rock	0.026	11	14	0.21	137	0.054	<20	0.85	0.042	0.17	<0.1	0.01	2.6	0.1	<0.05	3	<0.5	<0.2	



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CERTIFICATE OF ANALYSIS

WHI17000223.1

Method	Analyte	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2
1625315	Rock	0.85	<0.005	0.6	9.0	4.8	30	<0.1	7.2	4.1	272	1.54	2.5	0.7	5.6	18	<0.1	0.2	<0.1	25	0.21
1625316	Rock	0.65	<0.005	0.6	8.7	4.5	29	<0.1	6.7	4.7	251	1.67	2.8	0.8	5.2	17	<0.1	0.2	<0.1	27	0.19
1625317	Rock	0.53	<0.005	0.5	4.6	4.8	34	<0.1	3.5	3.5	429	1.71	1.3	0.6	13.2	9	<0.1	<0.1	<0.1	19	0.18
1625318	Rock	0.59	<0.005	0.5	4.6	4.5	33	<0.1	3.6	3.6	356	1.60	1.2	0.9	12.9	10	<0.1	<0.1	<0.1	18	0.18
1625319	Rock	0.51	<0.005	0.3	4.7	3.8	26	<0.1	3.9	3.0	240	1.47	1.4	0.5	12.6	8	<0.1	<0.1	<0.1	15	0.18
1625320	Rock	0.74	<0.005	0.5	7.3	4.7	31	<0.1	5.3	4.4	279	1.63	1.8	<0.5	9.3	13	<0.1	0.1	<0.1	23	0.17
1625321	Rock	0.88	<0.005	0.8	4.0	4.2	28	<0.1	3.3	3.0	404	1.49	1.5	<0.5	12.0	21	<0.1	<0.1	<0.1	15	1.02
1625443	Rock	0.74	0.012	0.3	4.3	2.9	25	<0.1	3.1	1.9	240	0.96	0.5	9.5	7.8	9	<0.1	<0.1	<0.1	8	0.11
1625444	Rock	0.82	0.012	0.7	3.8	2.8	22	<0.1	3.2	2.1	303	1.22	0.7	8.7	13.6	8	<0.1	<0.1	<0.1	9	0.12
1625445	Rock	0.72	0.026	0.4	5.2	2.6	21	<0.1	2.6	2.0	323	1.18	0.5	15.7	14.4	7	<0.1	<0.1	<0.1	10	0.10
1625446	Rock	0.66	0.041	0.5	6.2	1.8	18	<0.1	2.6	1.9	269	1.07	<0.5	27.0	12.6	6	<0.1	<0.1	<0.1	6	0.09
1625447	Rock	0.79	0.081	1.0	8.0	2.2	14	0.1	4.1	2.6	366	1.00	<0.5	67.9	15.4	7	<0.1	0.1	<0.1	5	0.12
1625448	Rock	0.79	0.026	0.4	2.5	5.5	43	<0.1	3.7	1.4	322	0.96	0.6	23.5	4.3	11	<0.1	<0.1	<0.1	13	0.14
1625449	Rock	0.75	0.020	0.4	5.4	2.4	30	<0.1	4.0	4.2	449	1.83	0.5	17.0	11.1	12	<0.1	<0.1	<0.1	14	0.18
1625450	Rock	0.74	0.007	0.7	3.5	2.5	16	<0.1	3.1	2.4	286	1.22	0.8	6.2	13.7	8	<0.1	<0.1	<0.1	11	0.10
1625451	Rock Pulp	0.12	<0.005	2.2	25.3	2.3	39	0.3	22.3	10.5	409	2.38	4.3	1.5	0.9	36	0.2	0.2	<0.1	58	0.79
1625452	Rock	0.81	0.119	1.0	4.6	3.9	13	<0.1	2.4	2.9	376	0.93	0.7	107.5	13.1	7	<0.1	0.1	<0.1	6	0.16
1625453	Rock	0.85	0.015	0.9	13.8	3.1	43	<0.1	3.7	6.3	994	2.74	0.9	10.0	9.8	12	<0.1	0.1	<0.1	36	0.30



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2
1625315	Rock	0.025	12	14	0.21	136	0.054	<20	0.85	0.044	0.16	<0.1	0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
1625316	Rock	0.024	11	16	0.22	122	0.058	<20	0.85	0.040	0.15	<0.1	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
1625317	Rock	0.033	30	7	0.19	110	0.050	<20	0.84	0.022	0.29	<0.1	0.01	3.3	0.1	<0.05	3	<0.5	<0.2
1625318	Rock	0.030	29	7	0.20	97	0.050	<20	0.84	0.022	0.29	<0.1	0.01	3.0	0.1	<0.05	3	<0.5	<0.2
1625319	Rock	0.025	26	9	0.15	68	0.035	<20	0.73	0.021	0.22	<0.1	0.01	2.5	0.1	<0.05	3	<0.5	<0.2
1625320	Rock	0.021	23	10	0.18	97	0.053	<20	0.95	0.023	0.21	<0.1	<0.01	3.0	<0.1	<0.05	3	<0.5	<0.2
1625321	Rock	0.021	29	8	0.17	81	0.051	<20	0.77	0.022	0.26	<0.1	0.01	2.7	0.1	<0.05	3	<0.5	<0.2
1625443	Rock	0.021	21	7	0.14	60	0.009	<20	0.54	0.045	0.15	<0.1	<0.01	1.2	<0.1	<0.05	3	<0.5	<0.2
1625444	Rock	0.020	31	6	0.16	72	0.033	<20	0.70	0.046	0.25	<0.1	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
1625445	Rock	0.018	17	5	0.17	68	0.025	<20	0.61	0.044	0.22	<0.1	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
1625446	Rock	0.015	18	7	0.15	61	0.011	<20	0.50	0.043	0.15	<0.1	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1625447	Rock	0.022	35	8	0.13	111	0.003	<20	0.56	0.036	0.22	<0.1	0.02	1.2	<0.1	<0.05	2	<0.5	<0.2
1625448	Rock	0.030	16	6	0.21	80	0.002	<20	0.63	0.070	0.15	<0.1	<0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
1625449	Rock	0.032	25	8	0.25	115	0.021	<20	0.78	0.052	0.23	<0.1	<0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
1625450	Rock	0.018	26	5	0.13	63	0.032	<20	0.56	0.042	0.23	<0.1	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
1625451	Rock Pulp	0.061	4	30	0.78	96	0.126	<20	1.51	0.075	0.13	11.7	0.01	4.3	<0.1	<0.05	5	<0.5	<0.2
1625452	Rock	0.024	45	4	0.05	151	0.002	<20	0.42	0.026	0.25	<0.1	<0.01	1.2	<0.1	<0.05	2	<0.5	0.2
1625453	Rock	0.074	27	6	0.47	234	0.105	<20	1.26	0.036	0.60	<0.1	<0.01	4.6	0.4	<0.05	6	<0.5	<0.2



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QUALITY CONTROL REPORT

WHI17000223.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm		
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
1625395	Rock	0.62	<0.005	0.3	9.6	3.1	36	<0.1	4.6	5.6	446	1.93	0.7	<0.5	10.4	13	<0.1	0.1	<0.1	35	0.22
REP 1625395	QC		<0.005																		
1625369	Rock	0.86	<0.005	0.3	5.7	2.7	30	<0.1	1.1	3.3	375	1.39	<0.5	4.0	8.8	8	<0.1	0.1	<0.1	13	0.24
REP 1625369	QC		<0.005																		
1625371	Rock	0.86	0.009	0.4	8.4	2.6	30	<0.1	2.6	3.2	471	1.43	0.6	6.2	12.8	8	<0.1	<0.1	<0.1	18	0.10
REP 1625371	QC			0.3	8.6	2.6	32	<0.1	2.7	3.2	468	1.45	<0.5	6.8	12.5	7	<0.1	0.1	<0.1	18	0.11
1625347	Rock	0.91	0.007	0.5	6.7	3.5	25	<0.1	3.5	2.9	224	1.16	1.0	3.3	9.9	9	<0.1	0.1	<0.1	17	0.15
REP 1625347	QC			0.6	7.0	3.7	26	<0.1	4.0	3.0	217	1.16	1.0	4.9	10.6	9	<0.1	0.1	<0.1	17	0.15
1625289	Rock	0.73	<0.005	0.3	3.6	3.2	33	<0.1	1.8	2.6	297	1.31	2.1	0.7	5.0	9	<0.1	0.1	<0.1	17	0.80
REP 1625289	QC		<0.005																		
1601021	Rock	0.25	<0.005	1.0	2.0	1.9	11	<0.1	2.3	1.2	109	0.64	0.7	<0.5	0.9	24	<0.1	<0.1	<0.1	7	0.10
REP 1601021	QC			1.0	2.0	1.8	10	<0.1	2.5	1.1	107	0.62	0.7	<0.5	0.9	24	<0.1	<0.1	<0.1	7	0.09
1601024	Rock	0.83	<0.005	0.6	5.9	2.9	29	<0.1	4.1	3.6	219	1.31	1.8	2.3	5.9	27	<0.1	0.1	<0.1	21	0.20
REP 1601024	QC		<0.005																		
1625308	Rock	0.36	0.008	0.6	20.3	6.2	39	<0.1	16.1	7.4	347	2.14	6.3	4.0	4.7	33	<0.1	0.3	0.1	44	0.36
REP 1625308	QC		0.006																		
1625452	Rock	0.81	0.119	1.0	4.6	3.9	13	<0.1	2.4	2.9	376	0.93	0.7	107.5	13.1	7	<0.1	0.1	<0.1	6	0.16
REP 1625452	QC			1.1	4.8	3.6	12	<0.1	2.1	2.6	381	0.93	0.7	80.1	12.3	6	<0.1	<0.1	<0.1	6	0.16
Core Reject Duplicates																					
1625398	Rock	0.73	<0.005	0.2	5.0	2.7	35	<0.1	2.2	4.3	435	1.72	<0.5	<0.5	8.5	14	<0.1	0.1	<0.1	25	0.20
DUP 1625398	QC		<0.005	0.2	6.2	2.9	40	<0.1	3.1	4.5	462	1.86	<0.5	<0.5	9.5	16	<0.1	0.2	<0.1	26	0.21
1625381	Rock	0.77	0.011	0.5	6.6	5.4	39	<0.1	3.1	3.3	415	1.60	0.8	7.0	13.7	17	<0.1	0.1	<0.1	18	0.65
DUP 1625381	QC		0.011	0.5	5.9	5.1	37	<0.1	2.7	3.0	392	1.54	0.8	5.2	13.1	18	<0.1	0.1	<0.1	17	0.66
1625356	Rock	0.66	<0.005	0.6	9.3	4.1	25	<0.1	5.6	3.8	256	1.19	2.2	0.7	6.0	13	<0.1	0.1	<0.1	23	0.19
DUP 1625356	QC		<0.005	0.7	8.7	4.1	25	<0.1	5.7	3.6	253	1.15	2.3	<0.5	6.1	13	<0.1	0.2	<0.1	23	0.19
1601029	Rock	0.83	<0.005	0.5	6.6	2.9	30	<0.1	4.7	3.8	213	1.22	1.7	0.7	3.6	42	<0.1	<0.1	<0.1	22	0.24
DUP 1601029	QC		<0.005	0.6	6.6	3.9	30	<0.1	5.0	3.7	208	1.17	1.4	0.9	3.7	41	<0.1	0.1	<0.1	23	0.23
Reference Materials																					



QUALITY CONTROL REPORT

WHI17000223.1

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																			
1625395	Rock	0.034	26	6	0.54	127	0.106	<20	1.14	0.033	0.43	<0.1	<0.01	3.4	0.2	<0.05	5	<0.5	<0.2
REP 1625395	QC																		
1625369	Rock	0.029	27	2	0.20	83	0.025	<20	0.62	0.027	0.24	<0.1	<0.01	2.6	<0.1	<0.05	2	<0.5	<0.2
REP 1625369	QC																		
1625371	Rock	0.021	24	4	0.21	110	0.054	<20	0.63	0.036	0.27	<0.1	0.01	3.6	0.1	<0.05	4	<0.5	<0.2
REP 1625371	QC	0.022	24	4	0.22	113	0.053	<20	0.64	0.037	0.27	<0.1	0.01	3.6	0.1	<0.05	3	<0.5	<0.2
1625347	Rock	0.023	18	6	0.17	82	0.037	<20	0.74	0.029	0.18	<0.1	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
REP 1625347	QC	0.021	18	5	0.15	78	0.036	<20	0.76	0.030	0.18	<0.1	<0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
1625289	Rock	0.023	17	3	0.08	68	0.015	<20	0.57	0.012	0.15	<0.1	0.01	3.8	<0.1	<0.05	2	<0.5	<0.2
REP 1625289	QC																		
1601021	Rock	0.011	2	7	0.09	47	0.018	<20	0.33	0.083	0.05	0.2	<0.01	0.7	<0.1	<0.05	2	<0.5	<0.2
REP 1601021	QC	0.010	2	6	0.08	46	0.018	<20	0.33	0.081	0.05	0.2	<0.01	0.8	<0.1	<0.05	2	<0.5	<0.2
1601024	Rock	0.015	10	11	0.23	113	0.062	<20	0.70	0.062	0.16	<0.1	<0.01	1.7	<0.1	<0.05	3	<0.5	<0.2
REP 1601024	QC																		
1625308	Rock	0.022	14	25	0.37	231	0.081	<20	1.37	0.048	0.10	<0.1	0.03	4.4	<0.1	<0.05	4	<0.5	<0.2
REP 1625308	QC																		
1625452	Rock	0.024	45	4	0.05	151	0.002	<20	0.42	0.026	0.25	<0.1	<0.01	1.2	<0.1	<0.05	2	<0.5	0.2
REP 1625452	QC	0.021	43	4	0.04	144	0.002	<20	0.42	0.026	0.26	<0.1	0.01	1.2	<0.1	<0.05	2	<0.5	0.3
Core Reject Duplicates																			
1625398	Rock	0.040	20	2	0.43	112	0.061	<20	0.84	0.040	0.32	<0.1	<0.01	2.9	0.1	<0.05	4	<0.5	<0.2
DUP 1625398	QC	0.041	23	2	0.45	114	0.065	<20	0.88	0.045	0.33	<0.1	<0.01	3.2	0.1	<0.05	4	<0.5	<0.2
1625381	Rock	0.026	36	4	0.19	97	0.045	<20	0.82	0.016	0.25	<0.1	0.02	3.5	0.1	<0.05	4	<0.5	<0.2
DUP 1625381	QC	0.024	33	3	0.19	92	0.044	<20	0.80	0.017	0.25	<0.1	0.01	3.4	0.1	<0.05	3	<0.5	<0.2
1625356	Rock	0.019	10	8	0.15	117	0.042	<20	0.82	0.019	0.13	<0.1	<0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
DUP 1625356	QC	0.020	10	8	0.15	116	0.042	<20	0.81	0.018	0.13	<0.1	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
1601029	Rock	0.021	8	11	0.22	126	0.065	<20	0.70	0.063	0.14	<0.1	<0.01	1.7	<0.1	<0.05	3	<0.5	<0.2
DUP 1601029	QC	0.023	9	12	0.23	133	0.065	<20	0.69	0.059	0.14	<0.1	0.01	1.6	<0.1	<0.05	3	<0.5	<0.2
Reference Materials																			



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Project: LOO
Report Date: July 26, 2017

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QUALITY CONTROL REPORT

WHI17000223.1

		WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
STD DS10	Standard			13.4	156.6	155.4	364	1.9	78.2	12.7	880	2.74	48.5	61.0	7.5	70	2.6	8.2	13.8	42	1.06
STD DS10	Standard			13.1	145.5	138.1	351	1.9	75.1	12.7	874	2.65	44.7	74.3	7.3	69	2.6	9.1	12.2	42	1.05
STD DS10	Standard			13.3	148.4	143.0	355	1.9	73.7	11.6	840	2.60	42.6	54.8	7.0	64	2.5	7.5	11.8	42	1.02
STD DS10	Standard			11.9	159.3	155.2	361	2.0	72.6	12.5	873	2.72	44.0	67.8	7.3	63	2.4	7.2	11.7	43	1.07
STD OREAS45EA	Standard			1.5	679.6	13.7	29	0.2	367.1	48.2	390	20.28	10.6	50.6	9.8	4	<0.1	0.3	0.3	312	0.03
STD OREAS45EA	Standard			1.5	674.3	13.8	29	0.2	371.8	50.0	398	20.28	10.8	53.7	9.8	4	<0.1	0.3	0.3	306	0.03
STD OREAS45EA	Standard			1.3	680.0	13.8	30	0.3	385.6	47.4	408	21.72	9.6	53.6	10.0	4	<0.1	0.2	0.2	302	0.03
STD OREAS45EA	Standard			1.5	705.8	14.6	30	0.3	378.0	53.0	420	22.81	9.8	56.2	9.7	4	<0.1	0.2	0.2	307	0.04
STD OXC145	Standard		0.209																		
STD OXC145	Standard		0.205																		
STD OXC145	Standard		0.207																		
STD OXC145	Standard		0.217																		
STD OXH122	Standard		1.254																		
STD OXH122	Standard		1.267																		
STD OXH122	Standard		1.236																		
STD OXH122	Standard		1.176																		
STD OXN117	Standard		7.810																		
STD OXN117	Standard		7.942																		
STD OXN117	Standard		7.941																		
STD OXN117	Standard		7.542																		
STD DS10 Expected				13.6	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625
STD OREAS45EA Expected				1.6	709	14.3	31.4	0.26	381	52	400	23.51	10.3	53	10.7	3.5	0.03	0.32	0.26	303	0.036
STD OXN117 Expected			7.679																		
STD OXC145 Expected			0.212																		
STD OXH122 Expected			1.247																		
BLK	Blank			<0.1	0.3	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01



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Project: LOO
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QUALITY CONTROL REPORT

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		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS10	Standard	0.075	17	50	0.79	437	0.076	<20	1.05	0.068	0.33	3.4	0.24	3.0	5.3	0.27	4	2.1	5.1
STD DS10	Standard	0.074	17	52	0.75	413	0.077	<20	1.02	0.068	0.33	3.3	0.26	2.8	5.1	0.27	4	1.8	4.8
STD DS10	Standard	0.071	16	50	0.76	416	0.078	<20	1.00	0.066	0.33	3.4	0.28	2.9	5.1	0.27	4	2.5	4.7
STD DS10	Standard	0.079	16	55	0.79	401	0.079	<20	1.02	0.068	0.34	3.0	0.28	2.8	5.2	0.29	4	2.2	4.6
STD OREAS45EA	Standard	0.026	7	768	0.09	146	0.092	<20	3.12	0.019	0.05	<0.1	<0.01	77.5	<0.1	<0.05	12	0.6	<0.2
STD OREAS45EA	Standard	0.027	7	768	0.09	144	0.094	<20	3.16	0.020	0.05	<0.1	<0.01	76.8	<0.1	<0.05	12	0.6	<0.2
STD OREAS45EA	Standard	0.028	7	805	0.09	137	0.097	<20	3.19	0.024	0.06	<0.1	0.02	71.6	<0.1	<0.05	12	0.5	<0.2
STD OREAS45EA	Standard	0.027	7	826	0.09	136	0.095	<20	3.36	0.016	0.06	<0.1	0.01	71.1	<0.1	<0.05	12	<0.5	<0.2
STD OXC145	Standard																		
STD OXC145	Standard																		
STD OXC145	Standard																		
STD OXC145	Standard																		
STD OXH122	Standard																		
STD OXH122	Standard																		
STD OXH122	Standard																		
STD OXH122	Standard																		
STD OXN117	Standard																		
STD OXN117	Standard																		
STD OXN117	Standard																		
STD OXN117	Standard																		
STD DS10 Expected		0.0765	17.5	54.6	0.775	412	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3	2.3	5.01
STD OREAS45EA Expected		0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053			78	0.072	0.036	12.4	0.78	0.07
STD OXN117 Expected																			
STD OXC145 Expected																			
STD OXH122 Expected																			
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Project: LOO
Report Date: July 26, 2017

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QUALITY CONTROL REPORT

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		WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
Prep Wash																					
ROCK-WHI	Prep Blank	<0.005	0.5	4.2	1.5	30	<0.1	0.8	3.2	480	1.64	0.5	1.3	2.1	18	<0.1	<0.1	<0.1	23	0.55	
ROCK-WHI	Prep Blank	<0.005	0.8	6.6	1.5	36	<0.1	1.0	3.7	566	1.80	1.0	<0.5	2.1	18	<0.1	<0.1	<0.1	25	0.53	



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QUALITY CONTROL REPORT

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		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200		
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
Prep Wash																				
ROCK-WHI	Prep Blank	0.041	4	2	0.46	55	0.073	<20	0.82	0.064	0.08	0.1	<0.01	2.2	<0.1	<0.05	3	<0.5	<0.2	
ROCK-WHI	Prep Blank	0.043	5	2	0.49	51	0.087	<20	0.83	0.066	0.08	0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2	



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Client: **White Gold Corp.**
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Submitted By: Jodie Gibson
Receiving Lab: Canada-Whitehorse
Received: July 04, 2017
Report Date: July 27, 2017
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CERTIFICATE OF ANALYSIS

WHI17000224.1

CLIENT JOB INFORMATION

Project: LOO
Shipment ID: LOO-20170630-001-PROBE
P.O. Number
Number of Samples: 138

SAMPLE DISPOSAL

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

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

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

CC: Isaac Fage
Shawn Ryan
Greg Dawson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	137	Crush, split and pulverize 250 g rock to 200 mesh			WHI
SLBHP	1	Sort, label and box pulps			WHI
FA430	138	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	138	Environmental disposal charge-Fire assay lead waste			VAN
AQ200	138	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	138	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



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



CERTIFICATE OF ANALYSIS

WHI17000224.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1625454	Rock	0.63	0.006	0.8	7.7	5.2	38	<0.1	1.9	4.4	731	2.48	<0.5	3.3	8.0	7	<0.1	0.2	<0.1	35	0.24
1625455	Rock	0.72	<0.005	0.5	6.3	4.2	43	<0.1	2.0	3.2	424	1.69	<0.5	3.0	9.2	6	<0.1	<0.1	<0.1	22	0.13
1625456	Rock	0.86	0.009	1.5	10.2	4.1	43	<0.1	3.6	3.6	475	1.75	<0.5	5.4	9.8	8	<0.1	0.1	<0.1	22	0.16
1625457	Rock	0.82	<0.005	0.7	7.0	3.4	35	<0.1	3.4	3.3	314	1.70	1.2	1.9	4.9	13	<0.1	0.1	<0.1	25	0.13
1625458	Rock	0.62	0.011	0.5	8.4	3.7	40	<0.1	3.1	3.1	375	1.58	<0.5	3.8	7.3	12	<0.1	0.1	<0.1	20	0.16
1625459	Rock	0.52	<0.005	0.5	11.3	3.4	41	<0.1	2.2	2.9	454	1.65	<0.5	1.9	7.9	7	<0.1	<0.1	<0.1	17	0.11
1601066	Rock	0.93	<0.005	0.7	7.7	3.2	32	<0.1	3.8	2.5	297	1.48	<0.5	<0.5	10.9	18	<0.1	<0.1	<0.1	15	0.18
1601067	Rock	0.83	<0.005	0.5	8.8	2.9	47	<0.1	3.8	2.8	302	1.56	1.0	<0.5	8.1	18	<0.1	0.1	<0.1	21	0.19
1601068	Rock	0.78	<0.005	0.5	8.1	3.1	38	<0.1	4.2	3.7	251	1.53	1.4	<0.5	5.3	24	<0.1	0.1	<0.1	24	0.18
1601069	Rock	0.81	<0.005	0.5	11.5	5.0	37	<0.1	8.4	4.9	328	2.05	3.5	<0.5	6.3	23	<0.1	0.2	<0.1	37	0.21
1601070	Rock	0.83	<0.005	0.3	5.5	3.5	41	<0.1	2.6	2.4	318	1.47	0.5	<0.5	9.2	12	<0.1	<0.1	<0.1	16	0.16
1601071	Rock	0.88	<0.005	0.9	5.8	1.7	46	<0.1	2.9	3.3	298	1.45	<0.5	<0.5	5.3	25	<0.1	<0.1	<0.1	22	0.22
1601072	Rock	0.88	<0.005	0.5	5.8	2.4	44	<0.1	2.7	2.7	271	1.42	<0.5	<0.5	7.4	22	<0.1	<0.1	<0.1	20	0.17
1601073	Rock	0.90	<0.005	0.9	5.0	1.8	34	<0.1	2.2	2.5	334	1.42	<0.5	<0.5	11.6	30	<0.1	0.1	<0.1	14	0.19
1601074	Rock	0.88	<0.005	0.5	7.9	2.8	41	<0.1	3.6	3.5	334	1.68	0.9	<0.5	8.7	26	<0.1	0.1	<0.1	21	0.18
1601075	Rock	0.97	<0.005	0.5	7.6	3.3	36	<0.1	3.5	3.3	310	1.50	<0.5	1.1	9.1	22	<0.1	0.1	<0.1	19	0.17
1601076	Rock	0.21	0.006	0.4	2.0	4.7	21	0.1	3.4	0.5	109	0.16	2.4	2.1	0.2	301	0.3	1.4	<0.1	16	20.23
1601077	Rock	0.26	<0.005	0.7	5.1	3.4	23	<0.1	3.2	2.1	144	1.07	1.6	<0.5	2.5	25	<0.1	0.1	<0.1	14	0.12
1601078	Rock	0.81	<0.005	0.5	11.8	2.8	45	<0.1	5.1	4.7	552	2.13	<0.5	1.0	11.1	22	<0.1	0.1	<0.1	27	0.26
1601079	Rock	0.82	<0.005	0.4	4.3	2.5	15	<0.1	2.0	0.6	96	0.53	<0.5	<0.5	0.7	21	<0.1	<0.1	<0.1	4	0.10
1601080	Rock	0.85	<0.005	0.3	3.5	3.1	13	<0.1	2.1	1.1	98	0.68	0.6	<0.5	1.2	24	<0.1	<0.1	<0.1	7	0.09
1601081	Rock	0.73	<0.005	0.8	4.8	3.4	21	<0.1	3.8	2.0	128	1.04	1.8	<0.5	1.4	22	<0.1	0.1	<0.1	16	0.10
1601082	Rock	0.77	<0.005	0.4	6.1	4.4	26	<0.1	3.5	2.4	159	1.09	1.3	<0.5	1.9	23	<0.1	0.1	<0.1	15	0.11
1625408	Rock	0.73	0.502	0.5	9.6	4.2	25	0.3	2.0	2.1	303	1.23	<0.5	490.1	11.1	6	<0.1	<0.1	0.2	9	0.10
1625409	Rock	0.83	0.047	0.5	11.7	5.3	16	<0.1	1.1	1.5	357	1.01	<0.5	50.0	11.1	31	<0.1	0.1	<0.1	11	1.26
1625410	Rock	0.57	0.012	0.4	10.6	3.4	34	<0.1	4.4	3.2	379	1.66	1.0	9.7	12.9	9	<0.1	0.1	<0.1	19	0.16
1625411	Rock	0.73	0.006	1.5	4.8	4.4	19	<0.1	0.9	1.8	270	1.13	<0.5	6.4	12.6	16	<0.1	<0.1	<0.1	6	0.42
1625412	Rock	0.73	<0.005	0.5	4.0	3.5	14	<0.1	1.0	1.2	275	0.78	<0.5	24.1	5.5	12	<0.1	<0.1	<0.1	4	0.33
1625413	Rock	0.63	0.006	0.8	5.4	3.5	20	<0.1	1.6	2.3	334	1.10	0.7	4.2	14.2	6	<0.1	<0.1	<0.1	7	0.11
1625414	Rock	0.70	<0.005	0.8	9.1	3.9	27	<0.1	1.7	3.0	368	1.48	<0.5	2.5	11.6	8	<0.1	0.1	<0.1	11	0.25



Bureau Veritas Commodities Canada Ltd.

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Project: LOO
Report Date: July 27, 2017

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CERTIFICATE OF ANALYSIS

WHI17000224.1

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
1625454	Rock	0.060	26	6	0.36	212	0.092	<20	1.11	0.005	0.57	0.2	0.03	5.0	0.3	<0.05	4	<0.5	<0.2
1625455	Rock	0.030	24	6	0.28	119	0.069	<20	0.86	0.007	0.41	<0.1	<0.01	3.3	0.2	<0.05	4	<0.5	<0.2
1625456	Rock	0.037	23	8	0.26	130	0.052	<20	0.78	0.018	0.29	<0.1	0.01	3.3	0.1	<0.05	4	<0.5	<0.2
1625457	Rock	0.026	10	10	0.26	133	0.057	<20	0.80	0.035	0.21	<0.1	<0.01	2.5	0.1	<0.05	4	<0.5	<0.2
1625458	Rock	0.035	24	7	0.23	123	0.035	<20	0.66	0.032	0.25	<0.1	0.01	2.3	0.1	<0.05	3	<0.5	<0.2
1625459	Rock	0.024	22	6	0.28	117	0.059	<20	0.83	0.018	0.35	<0.1	<0.01	2.8	0.2	<0.05	4	<0.5	<0.2
1601066	Rock	0.019	12	10	0.23	107	0.020	<20	0.83	0.038	0.22	<0.1	0.02	2.0	<0.1	<0.05	4	<0.5	<0.2
1601067	Rock	0.026	14	9	0.31	134	0.033	<20	0.80	0.035	0.17	<0.1	<0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
1601068	Rock	0.020	10	12	0.28	136	0.058	<20	0.85	0.055	0.16	<0.1	<0.01	2.0	0.1	<0.05	4	<0.5	<0.2
1601069	Rock	0.021	12	19	0.36	186	0.075	<20	1.19	0.029	0.17	<0.1	<0.01	3.3	0.1	<0.05	5	<0.5	<0.2
1601070	Rock	0.021	19	8	0.25	101	0.007	<20	0.74	0.043	0.09	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
1601071	Rock	0.028	16	11	0.36	102	0.058	<20	0.75	0.062	0.26	<0.1	<0.01	2.0	0.1	<0.05	5	<0.5	<0.2
1601072	Rock	0.028	17	11	0.29	108	0.048	<20	0.74	0.053	0.26	<0.1	<0.01	2.4	0.1	<0.05	4	<0.5	<0.2
1601073	Rock	0.026	17	8	0.24	91	0.034	<20	0.61	0.043	0.18	<0.1	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
1601074	Rock	0.020	21	12	0.28	142	0.045	<20	0.87	0.059	0.21	<0.1	<0.01	2.7	0.1	<0.05	4	<0.5	<0.2
1601075	Rock	0.022	19	10	0.26	119	0.045	<20	0.78	0.045	0.20	<0.1	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
1601076	Rock	0.017	1	3	11.47	19	0.002	<20	0.11	0.002	0.02	0.2	0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
1601077	Rock	0.010	5	12	0.16	106	0.026	<20	0.56	0.053	0.08	<0.1	<0.01	1.3	<0.1	<0.05	2	<0.5	<0.2
1601078	Rock	0.033	22	9	0.43	148	0.058	<20	1.20	0.042	0.32	<0.1	0.01	4.4	0.1	<0.05	6	<0.5	<0.2
1601079	Rock	0.003	3	7	0.09	72	0.003	<20	0.40	0.053	0.06	<0.1	<0.01	1.0	<0.1	<0.05	2	<0.5	<0.2
1601080	Rock	0.006	3	10	0.08	64	0.009	<20	0.44	0.072	0.06	<0.1	<0.01	1.3	<0.1	<0.05	2	<0.5	<0.2
1601081	Rock	0.007	3	14	0.16	89	0.025	<20	0.63	0.049	0.06	<0.1	<0.01	1.6	<0.1	<0.05	2	<0.5	<0.2
1601082	Rock	0.010	4	12	0.15	100	0.023	<20	0.70	0.057	0.08	<0.1	0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
1625408	Rock	0.019	25	6	0.10	78	0.020	<20	0.60	0.003	0.19	<0.1	0.05	2.4	<0.1	<0.05	3	<0.5	0.6
1625409	Rock	0.033	24	6	0.04	71	0.003	<20	0.43	0.002	0.14	0.1	<0.01	2.3	<0.1	<0.05	1	<0.5	<0.2
1625410	Rock	0.025	27	8	0.22	84	0.052	<20	0.79	0.029	0.29	<0.1	0.02	3.3	0.1	<0.05	4	<0.5	<0.2
1625411	Rock	0.020	31	6	0.05	60	0.005	<20	0.40	0.014	0.18	<0.1	<0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
1625412	Rock	0.015	16	5	0.03	63	0.002	<20	0.33	0.037	0.14	<0.1	<0.01	0.7	<0.1	<0.05	1	<0.5	<0.2
1625413	Rock	0.017	22	5	0.06	76	0.006	<20	0.39	0.023	0.17	<0.1	<0.01	1.5	<0.1	<0.05	1	<0.5	<0.2
1625414	Rock	0.026	28	5	0.10	86	0.015	<20	0.57	0.018	0.20	<0.1	0.01	2.3	<0.1	<0.05	2	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1625415	Rock	0.62	0.007	0.5	10.2	4.3	33	<0.1	4.7	3.2	353	1.59	1.1	4.3	11.3	9	<0.1	0.1	<0.1	19	0.16
1625416	Rock	0.87	0.006	0.8	9.6	4.5	28	<0.1	6.2	3.5	418	1.54	2.0	3.3	9.0	16	<0.1	0.2	<0.1	19	0.42
1625417	Rock	0.71	<0.005	0.9	7.6	3.5	48	<0.1	2.5	5.0	810	2.42	0.6	2.0	9.1	13	<0.1	0.1	<0.1	29	0.52
1625418	Rock	0.72	<0.005	0.7	10.1	3.2	55	<0.1	5.6	5.6	820	2.40	1.1	3.2	8.9	15	<0.1	0.2	<0.1	29	0.39
1625419	Rock	0.62	<0.005	0.3	5.6	2.3	25	<0.1	3.4	2.2	333	1.19	0.6	2.1	6.7	11	<0.1	0.1	<0.1	11	0.15
1625420	Rock	0.68	<0.005	0.8	4.0	3.0	27	<0.1	1.2	2.5	424	1.48	<0.5	1.0	9.3	21	<0.1	0.2	<0.1	17	0.82
1625421	Rock	0.72	0.006	0.7	3.2	2.7	21	<0.1	1.3	1.9	326	1.31	<0.5	4.7	13.1	10	<0.1	<0.1	<0.1	11	0.24
1625422	Rock	0.88	0.007	0.7	8.9	3.9	32	<0.1	4.4	3.2	302	1.50	1.4	3.8	8.6	13	<0.1	0.1	<0.1	20	0.30
1625423	Rock	0.66	<0.005	0.5	7.1	4.7	32	<0.1	1.8	2.7	419	1.55	<0.5	1.0	10.0	19	<0.1	0.1	<0.1	18	0.70
1625424	Rock	0.96	0.017	0.6	9.4	4.5	31	<0.1	5.8	3.8	275	1.64	2.2	11.2	9.7	13	<0.1	0.2	<0.1	22	0.22
1625322	Rock	0.69	<0.005	1.0	19.7	3.6	40	<0.1	2.8	2.8	357	1.60	<0.5	1.7	7.1	9	<0.1	<0.1	0.4	19	0.10
1625323	Rock	0.74	<0.005	0.9	5.5	2.4	45	<0.1	1.7	3.4	434	1.76	<0.5	<0.5	7.0	14	<0.1	<0.1	<0.1	22	0.16
1625324	Rock	0.87	<0.005	0.9	8.8	1.8	44	<0.1	2.0	5.0	513	2.20	<0.5	<0.5	10.5	18	<0.1	<0.1	<0.1	26	0.24
1625325	Rock	0.81	<0.005	0.5	8.8	1.9	47	<0.1	2.3	5.6	614	2.36	<0.5	0.9	9.1	19	<0.1	<0.1	<0.1	33	0.33
1625326	Rock Pulp	0.12	<0.005	2.2	23.6	2.2	43	0.4	22.3	9.2	406	2.37	4.3	1.1	0.9	40	0.3	0.3	<0.1	56	0.80
1625327	Rock	0.81	<0.005	0.7	4.0	2.3	50	<0.1	1.9	3.6	368	1.72	<0.5	0.8	6.3	22	<0.1	<0.1	0.1	24	0.18
1625328	Rock	0.80	<0.005	0.5	4.8	3.2	41	<0.1	1.5	4.6	574	2.06	0.7	1.2	10.4	15	0.1	0.1	<0.1	24	0.31
1625329	Rock	0.71	<0.005	0.6	9.8	2.5	48	<0.1	2.3	4.9	592	2.00	<0.5	1.1	8.6	17	<0.1	<0.1	0.2	27	0.19
1625330	Rock	0.58	<0.005	1.1	8.5	2.7	43	<0.1	2.5	4.6	433	1.98	<0.5	0.8	6.3	15	<0.1	0.1	<0.1	27	0.17
1625331	Rock	0.71	0.006	1.1	16.9	5.3	65	<0.1	2.1	4.7	735	2.26	0.8	6.4	9.4	12	<0.1	<0.1	0.4	25	0.21
1625332	Rock	0.78	0.021	0.9	25.8	2.9	38	<0.1	2.1	3.6	509	1.66	<0.5	16.8	9.6	9	<0.1	0.2	0.1	10	0.14
1625333	Rock	0.75	0.129	0.6	16.3	4.0	33	0.1	2.8	4.6	755	1.40	0.6	114.3	10.5	8	<0.1	0.1	<0.1	6	0.18
1625334	Rock	0.75	<0.005	0.6	7.4	4.1	38	<0.1	2.4	4.3	603	2.07	0.8	3.1	10.8	8	<0.1	0.2	<0.1	21	0.13
1625335	Rock	0.65	0.009	1.5	8.0	4.3	39	<0.1	2.5	4.6	586	2.18	<0.5	5.9	10.0	10	<0.1	0.1	<0.1	26	0.20
1625336	Rock	0.87	0.018	0.8	11.7	4.6	37	<0.1	4.8	4.1	426	1.84	1.2	12.2	10.1	18	<0.1	0.2	<0.1	22	0.55
1625337	Rock	0.86	0.471	0.7	7.5	4.9	32	0.3	3.6	4.8	360	1.58	1.4	455.4	11.5	15	<0.1	0.2	0.2	15	0.45
1625338	Rock	0.85	0.020	0.6	11.5	4.8	37	<0.1	7.7	4.2	490	1.70	2.0	24.2	9.1	16	<0.1	0.2	<0.1	22	0.40
1601083	Rock	0.88	<0.005	0.3	2.4	2.6	18	<0.1	1.7	0.8	95	0.70	<0.5	2.1	0.6	19	<0.1	<0.1	<0.1	7	0.07
1601084	Rock	0.75	<0.005	0.5	5.4	4.6	21	<0.1	4.0	2.1	127	1.05	2.1	1.0	1.5	16	<0.1	0.2	<0.1	15	0.07
1601085	Rock	0.85	<0.005	0.4	5.3	4.2	18	<0.1	2.8	1.4	136	0.81	1.3	1.3	1.1	15	<0.1	0.1	<0.1	11	0.08



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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
MDL		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1625415	Rock	0.027	27	9	0.19	83	0.039	<20	0.76	0.017	0.23	<0.1	0.01	3.0	0.1	<0.05	4	<0.5	<0.2	
1625416	Rock	0.022	20	11	0.16	108	0.035	<20	0.72	0.019	0.16	0.1	<0.01	3.0	<0.1	<0.05	3	<0.5	<0.2	
1625417	Rock	0.075	25	7	0.77	201	0.070	<20	1.33	0.026	0.47	0.1	<0.01	4.1	0.2	<0.05	6	<0.5	<0.2	
1625418	Rock	0.060	25	9	1.10	211	0.082	<20	1.62	0.027	0.46	0.3	<0.01	3.9	0.2	<0.05	7	<0.5	<0.2	
1625419	Rock	0.023	16	5	0.26	81	0.020	<20	0.59	0.030	0.15	<0.1	<0.01	1.8	<0.1	<0.05	2	<0.5	<0.2	
1625420	Rock	0.034	25	5	0.20	115	0.036	<20	0.72	0.008	0.30	<0.1	<0.01	2.6	0.1	<0.05	3	<0.5	<0.2	
1625421	Rock	0.025	31	6	0.10	81	0.021	<20	0.55	0.003	0.19	<0.1	<0.01	3.0	0.1	<0.05	2	<0.5	<0.2	
1625422	Rock	0.027	21	10	0.17	98	0.038	<20	0.73	0.017	0.18	<0.1	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2	
1625423	Rock	0.031	21	5	0.15	103	0.026	<20	0.61	0.003	0.21	<0.1	<0.01	3.9	0.1	<0.05	3	<0.5	<0.2	
1625424	Rock	0.027	22	11	0.19	102	0.044	<20	0.83	0.020	0.19	<0.1	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2	
1625322	Rock	0.026	19	6	0.20	88	0.038	<20	0.63	0.040	0.22	<0.1	<0.01	3.1	0.1	<0.05	3	<0.5	<0.2	
1625323	Rock	0.027	25	6	0.37	115	0.069	<20	0.89	0.054	0.37	<0.1	<0.01	3.5	0.1	<0.05	5	<0.5	<0.2	
1625324	Rock	0.035	31	7	0.45	139	0.086	<20	1.08	0.048	0.52	<0.1	<0.01	2.9	0.2	<0.05	5	<0.5	<0.2	
1625325	Rock	0.043	23	7	0.60	158	0.118	<20	1.34	0.044	0.71	<0.1	<0.01	2.6	0.3	<0.05	6	<0.5	<0.2	
1625326	Rock Pulp	0.056	4	29	0.76	93	0.117	<20	1.51	0.075	0.13	12.7	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2	
1625327	Rock	0.031	15	7	0.38	108	0.071	<20	0.92	0.057	0.42	<0.1	<0.01	2.1	0.2	<0.05	5	<0.5	<0.2	
1625328	Rock	0.033	33	5	0.41	98	0.032	<20	1.08	0.038	0.35	<0.1	<0.01	3.8	0.1	<0.05	5	<0.5	<0.2	
1625329	Rock	0.024	19	7	0.61	136	0.100	<20	1.25	0.044	0.41	<0.1	<0.01	4.2	0.2	<0.05	6	<0.5	<0.2	
1625330	Rock	0.023	11	8	0.37	127	0.083	<20	1.09	0.040	0.42	<0.1	<0.01	3.0	0.2	<0.05	5	<0.5	<0.2	
1625331	Rock	0.037	34	6	0.48	132	0.080	<20	1.09	0.040	0.43	<0.1	<0.01	3.8	0.2	<0.05	6	<0.5	<0.2	
1625332	Rock	0.033	24	5	0.33	103	0.004	<20	0.80	0.033	0.19	<0.1	<0.01	2.2	<0.1	<0.05	3	<0.5	<0.2	
1625333	Rock	0.037	35	5	0.06	192	0.002	<20	0.44	0.023	0.25	<0.1	<0.01	2.2	<0.1	<0.05	1	<0.5	<0.2	
1625334	Rock	0.035	36	5	0.16	123	0.041	<20	0.59	0.035	0.27	<0.1	<0.01	4.9	0.1	<0.05	3	<0.5	<0.2	
1625335	Rock	0.034	37	6	0.33	142	0.090	<20	1.02	0.029	0.48	<0.1	<0.01	5.3	0.2	<0.05	5	<0.5	<0.2	
1625336	Rock	0.028	27	10	0.22	124	0.042	<20	0.93	0.025	0.22	<0.1	0.01	4.2	0.1	<0.05	3	<0.5	<0.2	
1625337	Rock	0.023	32	7	0.13	100	0.025	<20	0.72	0.022	0.17	<0.1	0.06	2.7	<0.1	<0.05	3	<0.5	0.7	
1625338	Rock	0.023	22	12	0.18	167	0.038	<20	0.82	0.027	0.13	<0.1	0.01	3.2	<0.1	<0.05	3	<0.5	<0.2	
1601083	Rock	0.008	1	7	0.09	75	0.008	<20	0.40	0.059	0.08	<0.1	<0.01	0.8	<0.1	<0.05	2	<0.5	<0.2	
1601084	Rock	0.008	2	11	0.13	81	0.020	<20	0.65	0.056	0.08	<0.1	<0.01	1.5	<0.1	<0.05	3	<0.5	<0.2	
1601085	Rock	0.008	2	8	0.08	83	0.014	<20	0.50	0.048	0.08	<0.1	<0.01	1.1	<0.1	<0.05	2	<0.5	<0.2	



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Project: LOO
Report Date: July 27, 2017

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CERTIFICATE OF ANALYSIS

WHI17000224.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1601086	Rock	0.82	<0.005	0.2	4.3	6.7	39	<0.1	3.4	1.2	205	1.03	0.9	1.0	1.4	13	<0.1	0.1	<0.1	12	0.08
1601087	Rock	0.78	<0.005	0.4	8.8	4.4	26	<0.1	5.3	2.7	173	1.14	2.5	1.1	2.1	18	<0.1	0.2	<0.1	19	0.11
1601088	Rock	0.96	<0.005	0.4	3.3	3.5	18	<0.1	2.2	1.2	163	0.75	<0.5	1.0	1.0	14	<0.1	<0.1	<0.1	9	0.07
1601089	Rock	0.83	<0.005	0.5	11.7	6.0	55	<0.1	2.9	4.4	967	1.81	0.9	0.8	8.1	12	<0.1	0.1	<0.1	16	0.28
1601090	Rock	0.87	<0.005	0.3	4.7	4.6	47	<0.1	1.4	2.6	496	1.58	<0.5	<0.5	5.1	63	<0.1	<0.1	<0.1	19	3.58
1601091	Rock	0.87	<0.005	0.2	4.8	4.3	13	<0.1	0.6	1.3	284	0.68	<0.5	1.0	5.5	106	<0.1	<0.1	<0.1	6	4.87
1601092	Rock	0.83	<0.005	0.3	7.3	2.4	29	<0.1	1.3	3.4	351	1.68	<0.5	0.8	10.9	21	<0.1	<0.1	<0.1	16	0.72
1601093	Rock	0.90	<0.005	0.5	11.2	4.3	30	<0.1	1.7	3.8	491	1.81	<0.5	0.6	10.4	34	<0.1	0.1	<0.1	20	1.28
1601094	Rock	0.86	<0.005	0.4	7.2	4.3	32	<0.1	1.4	2.9	378	1.38	<0.5	<0.5	9.5	53	<0.1	0.1	<0.1	15	0.59
1601095	Rock	0.79	<0.005	0.4	10.0	3.5	29	<0.1	1.2	2.7	367	1.62	<0.5	<0.5	11.0	15	<0.1	<0.1	<0.1	15	0.51
1601096	Rock	0.91	<0.005	0.4	6.1	3.8	39	<0.1	1.0	2.9	408	1.31	<0.5	<0.5	7.8	30	<0.1	<0.1	<0.1	13	0.89
1601097	Rock	0.88	<0.005	0.4	7.9	2.6	35	<0.1	1.6	2.5	264	1.32	<0.5	<0.5	7.7	10	<0.1	0.1	<0.1	13	0.12
1601098	Rock	0.80	<0.005	0.4	7.0	3.9	49	<0.1	2.5	3.4	449	1.40	<0.5	1.6	8.2	10	<0.1	0.1	<0.1	14	0.12
1601099	Rock	0.80	<0.005	0.4	9.2	3.5	35	<0.1	1.8	3.2	304	1.25	<0.5	1.7	11.9	10	<0.1	0.1	<0.1	9	0.14
1625477	Rock	0.72	0.006	0.9	6.3	3.0	19	<0.1	2.2	2.0	270	1.17	<0.5	3.6	16.4	6	<0.1	0.1	<0.1	6	0.09
1625478	Rock	0.67	<0.005	1.3	7.4	4.6	46	<0.1	1.9	3.8	406	1.58	0.6	1.3	6.6	7	<0.1	0.1	<0.1	22	0.25
1625479	Rock	0.64	0.007	1.0	11.2	3.6	35	<0.1	2.6	2.8	328	1.19	<0.5	5.7	6.1	10	0.1	0.2	<0.1	14	0.14
1625480	Rock	0.70	0.009	1.1	9.2	3.0	32	<0.1	3.0	3.2	323	1.31	<0.5	6.8	13.5	9	<0.1	<0.1	<0.1	11	0.08
1625481	Rock	0.76	<0.005	0.5	7.0	2.3	23	<0.1	1.8	2.3	260	1.18	<0.5	0.5	13.6	5	<0.1	<0.1	<0.1	10	0.08
1625482	Rock	0.83	<0.005	0.6	5.1	2.7	20	<0.1	2.0	2.2	270	1.27	<0.5	<0.5	13.6	6	<0.1	<0.1	<0.1	8	0.10
1625483	Rock	0.79	<0.005	0.6	3.6	2.9	23	<0.1	1.1	2.1	310	1.24	<0.5	<0.5	14.4	5	<0.1	<0.1	<0.1	7	0.08
1625484	Rock	0.76	<0.005	0.5	3.9	3.0	25	<0.1	1.7	2.0	304	1.13	<0.5	<0.5	12.1	7	<0.1	<0.1	<0.1	8	0.15
1625485	Rock	0.72	<0.005	0.6	7.0	4.2	29	<0.1	2.0	2.1	280	1.07	<0.5	<0.5	7.5	8	<0.1	<0.1	<0.1	12	0.11
1625486	Rock	0.70	<0.005	0.6	4.0	3.1	17	<0.1	2.8	1.5	225	1.01	<0.5	<0.5	11.9	5	<0.1	<0.1	<0.1	7	0.06
1625487	Rock	0.71	<0.005	0.5	4.1	3.7	27	<0.1	1.7	1.9	311	1.18	<0.5	<0.5	12.3	5	<0.1	<0.1	<0.1	11	0.10
1625488	Rock	0.67	<0.005	0.5	5.5	3.5	18	<0.1	2.4	1.5	190	0.86	0.6	<0.5	13.4	4	<0.1	<0.1	<0.1	8	0.06
1625489	Rock	0.79	<0.005	0.3	7.6	2.7	17	<0.1	1.4	1.7	209	0.88	<0.5	<0.5	15.4	5	<0.1	<0.1	<0.1	7	0.08
1625490	Rock	0.74	<0.005	0.3	4.5	2.7	18	<0.1	1.9	1.9	211	0.96	<0.5	<0.5	14.5	6	<0.1	<0.1	<0.1	10	0.07
1625491	Rock	0.78	<0.005	0.4	7.4	3.6	25	<0.1	2.9	2.4	358	1.22	<0.5	1.0	16.7	6	<0.1	<0.1	<0.1	11	0.09
1625492	Rock	0.58	<0.005	0.3	5.9	2.6	14	<0.1	1.6	1.8	148	0.79	<0.5	0.9	12.9	5	<0.1	0.1	<0.1	6	0.05



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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
MDL		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
1601086	Rock	0.018	6	6	0.06	72	0.008	<20	0.45	0.048	0.06	<0.1	<0.01	2.2	<0.1	<0.05	2	<0.5	<0.2	
1601087	Rock	0.012	6	12	0.15	97	0.025	<20	0.66	0.049	0.08	<0.1	0.02	2.9	<0.1	<0.05	3	<0.5	<0.2	
1601088	Rock	0.015	2	6	0.06	66	0.008	<20	0.36	0.055	0.09	<0.1	<0.01	1.5	<0.1	<0.05	1	<0.5	<0.2	
1601089	Rock	0.034	28	6	0.09	203	0.007	<20	0.68	0.013	0.17	<0.1	0.01	3.6	<0.1	<0.05	3	<0.5	<0.2	
1601090	Rock	0.037	18	6	0.18	93	0.029	<20	0.72	0.004	0.24	<0.1	0.01	3.4	0.1	<0.05	4	<0.5	<0.2	
1601091	Rock	0.022	11	3	0.05	61	0.002	<20	0.45	0.002	0.13	<0.1	<0.01	1.5	<0.1	<0.05	2	<0.5	<0.2	
1601092	Rock	0.025	26	5	0.20	114	0.044	<20	0.79	0.039	0.30	<0.1	<0.01	2.9	0.1	<0.05	3	<0.5	<0.2	
1601093	Rock	0.033	35	6	0.16	94	0.023	<20	0.54	0.033	0.20	<0.1	<0.01	3.8	<0.1	<0.05	2	<0.5	<0.2	
1601094	Rock	0.029	23	6	0.11	89	0.020	<20	0.44	0.030	0.18	<0.1	<0.01	3.1	<0.1	<0.05	2	<0.5	<0.2	
1601095	Rock	0.023	39	6	0.17	106	0.042	<20	0.57	0.026	0.26	<0.1	<0.01	3.1	<0.1	<0.05	3	<0.5	<0.2	
1601096	Rock	0.026	28	6	0.13	93	0.031	<20	0.54	0.043	0.22	<0.1	<0.01	2.5	<0.1	<0.05	2	<0.5	<0.2	
1601097	Rock	0.024	17	6	0.13	78	0.024	<20	0.51	0.046	0.21	<0.1	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2	
1601098	Rock	0.029	22	6	0.15	104	0.026	<20	0.50	0.035	0.23	<0.1	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2	
1601099	Rock	0.027	28	6	0.09	106	0.018	<20	0.46	0.046	0.23	<0.1	<0.01	2.0	<0.1	<0.05	2	<0.5	<0.2	
1625477	Rock	0.016	34	6	0.09	66	0.012	<20	0.50	0.026	0.17	<0.1	0.02	1.8	<0.1	<0.05	2	<0.5	<0.2	
1625478	Rock	0.053	22	6	0.19	93	0.024	<20	0.74	0.004	0.21	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2	
1625479	Rock	0.036	23	6	0.21	64	0.012	<20	0.63	0.031	0.16	<0.1	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2	
1625480	Rock	0.019	28	7	0.24	67	0.021	<20	0.61	0.041	0.18	<0.1	<0.01	2.3	<0.1	<0.05	3	<0.5	<0.2	
1625481	Rock	0.016	20	6	0.19	52	0.039	<20	0.53	0.032	0.26	<0.1	<0.01	2.0	0.1	<0.05	3	<0.5	<0.2	
1625482	Rock	0.016	27	7	0.13	56	0.036	<20	0.50	0.041	0.25	<0.1	<0.01	2.0	0.1	<0.05	2	<0.5	<0.2	
1625483	Rock	0.014	29	6	0.14	56	0.034	<20	0.50	0.029	0.25	<0.1	<0.01	2.0	0.1	<0.05	3	<0.5	<0.2	
1625484	Rock	0.017	31	5	0.17	59	0.035	<20	0.59	0.031	0.26	<0.1	<0.01	2.0	0.1	<0.05	3	<0.5	<0.2	
1625485	Rock	0.030	21	6	0.13	62	0.016	<20	0.57	0.020	0.20	<0.1	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2	
1625486	Rock	0.014	20	6	0.08	44	0.015	<20	0.42	0.015	0.14	<0.1	<0.01	1.8	<0.1	<0.05	2	<0.5	<0.2	
1625487	Rock	0.019	31	5	0.13	62	0.039	<20	0.56	0.020	0.25	<0.1	<0.01	2.0	0.1	<0.05	3	<0.5	<0.2	
1625488	Rock	0.016	20	2	0.12	38	0.027	<20	0.44	0.006	0.16	<0.1	<0.01	2.4	<0.1	<0.05	2	<0.5	<0.2	
1625489	Rock	0.015	29	2	0.11	43	0.029	<20	0.42	0.022	0.19	<0.1	<0.01	2.3	<0.1	<0.05	2	<0.5	<0.2	
1625490	Rock	0.015	22	3	0.15	55	0.042	<20	0.50	0.024	0.25	<0.1	<0.01	2.3	0.1	<0.05	3	<0.5	<0.2	
1625491	Rock	0.020	54	3	0.16	65	0.041	<20	0.59	0.019	0.25	<0.1	0.02	3.2	0.1	<0.05	3	<0.5	<0.2	
1625492	Rock	0.010	17	2	0.12	39	0.026	<20	0.40	0.025	0.15	<0.1	<0.01	1.9	<0.1	<0.05	2	<0.5	<0.2	



CERTIFICATE OF ANALYSIS

WHI17000224.1

Method Analyte Unit MDL	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1625493	Rock	0.78	0.011	0.6	4.9	2.6	19	<0.1	0.9	1.8	285	0.80	<0.5	5.4	14.3	6	<0.1	<0.1	<0.1	5	0.22
1601030	Rock	0.77	<0.005	0.5	7.9	2.8	33	<0.1	4.6	3.3	190	1.02	1.3	<0.5	3.5	37	<0.1	<0.1	<0.1	20	0.20
1601031	Rock	0.72	<0.005	0.4	9.1	3.6	35	<0.1	5.7	4.4	209	1.21	2.3	<0.5	3.7	49	<0.1	0.2	<0.1	25	0.24
1601032	Rock	0.20	<0.005	0.6	6.4	2.8	28	<0.1	3.2	2.7	166	0.86	1.3	<0.5	1.7	56	<0.1	0.1	<0.1	16	0.18
1601033	Rock	0.80	<0.005	0.6	11.1	4.4	35	<0.1	7.3	4.5	201	1.41	3.1	<0.5	3.5	52	<0.1	0.2	<0.1	29	0.27
1601034	Rock	0.62	<0.005	0.4	7.0	4.1	30	<0.1	4.4	3.2	172	1.16	2.5	<0.5	2.1	57	<0.1	0.1	<0.1	24	0.25
1601035	Rock	0.60	<0.005	0.4	4.9	3.8	19	<0.1	2.9	1.7	120	0.73	1.7	<0.5	1.5	26	<0.1	<0.1	<0.1	13	0.21
1601036	Rock	0.88	<0.005	0.4	6.2	3.0	23	<0.1	3.6	2.8	168	0.86	0.9	<0.5	4.3	34	<0.1	<0.1	<0.1	13	0.17
1601037	Rock	0.71	<0.005	0.4	7.6	2.7	37	<0.1	2.8	4.1	209	1.12	1.1	<0.5	4.5	44	<0.1	0.1	<0.1	20	0.20
1601038	Rock	0.39	<0.005	0.2	8.0	2.5	29	<0.1	2.9	3.5	195	1.10	1.6	<0.5	8.1	25	<0.1	0.1	<0.1	18	0.16
1601039	Rock	0.92	<0.005	1.3	8.9	2.5	66	<0.1	5.5	4.8	277	1.66	1.4	<0.5	5.8	62	<0.1	<0.1	<0.1	33	0.28
1601040	Rock	0.79	<0.005	0.3	10.6	3.4	54	<0.1	5.4	5.4	274	1.54	2.1	<0.5	4.3	55	<0.1	0.1	<0.1	34	0.26
1601041	Rock	0.80	<0.005	0.5	9.7	3.5	39	<0.1	6.0	4.9	239	1.44	3.0	<0.5	4.2	33	<0.1	0.1	<0.1	31	0.22
1601042	Rock	0.88	<0.005	0.6	9.4	3.3	59	<0.1	6.3	5.2	286	1.74	1.7	1.3	6.0	53	<0.1	0.1	<0.1	36	0.30
1601043	Rock	0.88	<0.005	0.5	7.2	3.3	43	<0.1	4.6	4.3	233	1.31	1.8	<0.5	3.8	36	<0.1	0.1	<0.1	28	0.24
1601044	Rock	0.32	<0.005	0.9	11.1	4.3	41	<0.1	6.8	5.8	263	1.54	3.4	<0.5	5.4	35	<0.1	0.2	<0.1	36	0.26
1601045	Rock	0.73	0.005	0.6	13.0	3.7	61	<0.1	7.3	5.8	281	1.80	2.5	<0.5	4.2	48	<0.1	0.2	<0.1	41	0.32
1601046	Rock	0.89	0.006	0.4	8.6	3.4	50	<0.1	4.9	4.9	271	1.46	2.0	94.3	4.5	38	<0.1	0.1	<0.1	32	0.24
1601047	Rock	0.62	<0.005	0.5	11.4	4.2	57	<0.1	6.1	5.5	382	1.87	2.4	<0.5	4.5	30	<0.1	0.1	<0.1	42	0.33
1601048	Rock	0.83	0.006	0.7	10.1	4.0	39	<0.1	6.6	5.3	294	1.59	2.7	1.6	4.4	27	<0.1	0.1	<0.1	32	0.24
1601049	Rock	0.69	<0.005	0.5	8.9	4.8	34	<0.1	6.0	6.0	277	1.53	3.8	<0.5	5.2	23	<0.1	0.2	<0.1	35	0.20
1601050	Rock	0.92	0.009	0.7	10.7	4.0	38	<0.1	7.0	5.6	316	1.67	2.5	9.1	6.4	23	<0.1	0.1	<0.1	31	0.22
1601051	Rock	0.18	<0.005	0.4	1.4	4.8	20	0.1	3.7	0.6	120	0.18	3.3	3.1	0.2	300	0.4	1.5	<0.1	17	20.30
1601052	Rock	0.88	<0.005	0.4	12.4	3.3	50	<0.1	5.7	5.7	421	1.95	2.2	0.6	6.6	19	<0.1	0.1	<0.1	38	0.26
1601053	Rock	0.79	<0.005	0.4	11.7	5.1	82	<0.1	6.0	5.8	569	2.13	2.4	1.0	6.3	21	<0.1	<0.1	0.1	44	0.30
1601054	Rock	0.79	<0.005	0.3	13.8	4.3	55	<0.1	4.9	5.3	380	1.84	1.5	<0.5	6.5	24	<0.1	0.1	0.1	36	0.29
1601055	Rock	0.87	<0.005	0.5	11.1	4.8	44	<0.1	7.5	6.0	321	1.95	3.6	<0.5	6.2	29	<0.1	0.2	<0.1	40	0.28
1601056	Rock	0.15	<0.005	0.9	9.0	3.8	34	<0.1	7.7	4.9	243	1.50	2.6	<0.5	2.6	25	<0.1	0.1	<0.1	25	0.17
1601057	Rock	0.89	<0.005	0.6	10.4	4.4	87	<0.1	6.4	5.4	279	1.67	4.4	<0.5	5.6	27	<0.1	2.4	<0.1	35	0.23
1601058	Rock	0.87	<0.005	0.5	12.8	4.4	59	<0.1	5.2	4.1	234	1.57	1.6	<0.5	7.2	25	<0.1	<0.1	<0.1	28	0.24



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Project: LOO
Report Date: July 27, 2017

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CERTIFICATE OF ANALYSIS

WHI17000224.1

Method Analyte Unit	AQ200																			
	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te		
MDL	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
1625493	Rock	0.017	24	2	0.07	64	0.008	<20	0.34	0.024	0.14	<0.1	<0.01	1.4	<0.1	<0.05	1	<0.5	<0.2	
1601030	Rock	0.025	9	8	0.23	114	0.064	<20	0.61	0.027	0.14	<0.1	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2	
1601031	Rock	0.027	9	10	0.26	140	0.070	<20	0.76	0.038	0.12	<0.1	<0.01	2.3	<0.1	<0.05	3	<0.5	<0.2	
1601032	Rock	0.022	5	7	0.18	120	0.046	<20	0.50	0.056	0.12	<0.1	<0.01	1.4	<0.1	<0.05	3	<0.5	<0.2	
1601033	Rock	0.022	11	14	0.28	162	0.070	<20	0.95	0.034	0.11	<0.1	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2	
1601034	Rock	0.024	7	9	0.24	133	0.059	<20	0.82	0.038	0.10	<0.1	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2	
1601035	Rock	0.012	5	6	0.14	92	0.020	<20	0.63	0.047	0.07	<0.1	<0.01	1.3	<0.1	<0.05	2	<0.5	<0.2	
1601036	Rock	0.017	9	6	0.16	78	0.039	<20	0.48	0.056	0.08	<0.1	<0.01	1.4	<0.1	<0.05	2	<0.5	<0.2	
1601037	Rock	0.026	10	7	0.25	120	0.071	<20	0.68	0.050	0.19	<0.1	<0.01	1.5	<0.1	<0.05	3	<0.5	<0.2	
1601038	Rock	0.021	14	7	0.21	113	0.065	<20	0.59	0.036	0.14	<0.1	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2	
1601039	Rock	0.041	12	12	0.44	166	0.115	<20	0.99	0.044	0.37	<0.1	<0.01	2.7	0.1	<0.05	5	<0.5	<0.2	
1601040	Rock	0.033	11	11	0.39	150	0.102	<20	0.93	0.035	0.26	<0.1	<0.01	2.5	0.1	<0.05	4	<0.5	<0.2	
1601041	Rock	0.028	11	13	0.31	153	0.083	<20	0.89	0.034	0.17	<0.1	<0.01	2.7	<0.1	<0.05	3	<0.5	<0.2	
1601042	Rock	0.042	14	13	0.45	178	0.114	<20	1.02	0.045	0.32	<0.1	<0.01	3.1	0.2	<0.05	5	<0.5	<0.2	
1601043	Rock	0.033	10	10	0.32	139	0.075	<20	0.80	0.038	0.18	<0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2	
1601044	Rock	0.035	16	15	0.34	156	0.088	<20	0.92	0.032	0.15	<0.1	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2	
1601045	Rock	0.046	14	15	0.46	193	0.114	<20	1.10	0.042	0.27	<0.1	0.01	3.4	0.1	<0.05	5	<0.5	<0.2	
1601046	Rock	0.037	10	11	0.37	159	0.094	<20	0.89	0.039	0.26	<0.1	<0.01	2.5	0.1	<0.05	4	<0.5	<0.2	
1601047	Rock	0.055	13	12	0.51	175	0.108	<20	1.25	0.032	0.36	<0.1	<0.01	3.4	0.2	<0.05	6	<0.5	<0.2	
1601048	Rock	0.033	13	14	0.33	149	0.083	<20	0.98	0.039	0.17	<0.1	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2	
1601049	Rock	0.019	12	14	0.31	148	0.080	<20	1.00	0.028	0.11	<0.1	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2	
1601050	Rock	0.030	14	13	0.33	148	0.084	<20	0.99	0.035	0.21	<0.1	<0.01	3.2	0.1	<0.05	4	<0.5	<0.2	
1601051	Rock	0.015	2	3	12.77	18	0.003	<20	0.10	0.001	0.01	0.2	<0.01	0.5	<0.1	<0.05	<1	<0.5	<0.2	
1601052	Rock	0.049	17	11	0.47	164	0.120	<20	1.17	0.021	0.38	<0.1	<0.01	4.1	0.2	<0.05	5	<0.5	<0.2	
1601053	Rock	0.066	16	9	0.50	204	0.102	<20	1.34	0.019	0.43	<0.1	<0.01	4.3	0.2	<0.05	6	<0.5	<0.2	
1601054	Rock	0.052	17	9	0.45	143	0.105	<20	1.16	0.026	0.38	<0.1	<0.01	3.7	0.2	<0.05	5	<0.5	<0.2	
1601055	Rock	0.036	17	16	0.45	182	0.105	<20	1.22	0.034	0.21	0.1	0.01	3.3	0.1	<0.05	5	<0.5	<0.2	
1601056	Rock	0.028	9	13	0.26	155	0.058	<20	0.87	0.062	0.16	<0.1	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2	
1601057	Rock	0.032	14	14	0.38	160	0.096	<20	1.09	0.034	0.18	0.2	<0.01	2.8	0.1	<0.05	4	<0.5	<0.2	
1601058	Rock	0.032	20	11	0.36	137	0.050	<20	1.16	0.025	0.20	<0.1	<0.01	3.0	0.1	<0.05	5	<0.5	<0.2	



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CERTIFICATE OF ANALYSIS

WHI17000224.1

Method	Analyte	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1601059	Rock	0.84	<0.005	0.3	8.8	3.1	40	<0.1	3.6	3.8	209	1.25	1.7	<0.5	7.3	20	<0.1	<0.1	<0.1	22	0.16
1601060	Rock	0.89	<0.005	0.5	11.5	3.9	47	<0.1	5.8	4.9	278	1.58	2.5	<0.5	7.4	27	<0.1	0.2	<0.1	33	0.24
1601061	Rock	0.85	<0.005	0.5	13.4	4.2	42	<0.1	8.2	5.5	297	1.67	2.5	<0.5	9.0	27	<0.1	0.2	<0.1	32	0.24
1601062	Rock	0.92	<0.005	0.4	9.3	3.0	37	<0.1	3.8	4.4	289	1.31	1.2	<0.5	7.3	23	<0.1	0.1	<0.1	22	0.18
1601063	Rock	0.78	<0.005	0.5	11.9	2.7	37	<0.1	4.1	4.1	304	1.46	1.4	<0.5	10.8	20	<0.1	0.1	<0.1	25	0.17
1601064	Rock	0.86	<0.005	0.6	10.2	2.8	82	<0.1	6.4	5.1	377	1.87	1.0	<0.5	2.4	29	<0.1	0.1	<0.1	37	0.37
1601065	Rock	0.76	<0.005	0.4	10.7	4.4	44	<0.1	7.1	4.8	251	1.69	3.5	<0.5	4.8	28	<0.1	0.2	<0.1	36	0.23
1625460	Rock	0.73	0.006	0.3	4.9	2.2	25	<0.1	1.9	2.6	333	1.22	0.5	1.4	12.7	9	<0.1	0.1	<0.1	10	0.13
1625461	Rock	0.77	<0.005	0.3	3.9	3.0	27	<0.1	2.9	2.9	318	1.20	<0.5	2.0	10.9	11	<0.1	0.1	<0.1	12	0.13
1625462	Rock	0.75	0.009	0.2	3.7	2.7	27	<0.1	2.5	2.8	442	1.37	<0.5	5.9	15.1	9	<0.1	<0.1	<0.1	13	0.16
1625463	Rock	0.88	0.011	1.4	13.7	4.5	30	<0.1	3.2	4.5	612	1.74	1.3	9.0	12.1	6	<0.1	0.2	<0.1	14	0.12
1625464	Rock	0.71	0.005	0.6	4.1	4.4	26	<0.1	2.4	3.1	405	1.35	1.0	2.9	12.2	8	<0.1	0.2	<0.1	14	0.15
1625465	Rock	0.52	0.012	0.6	7.1	3.0	70	<0.1	4.1	7.2	1110	3.10	0.7	8.1	9.9	11	<0.1	<0.1	<0.1	55	0.41
1625466	Rock	0.73	0.009	0.6	7.9	3.4	26	<0.1	2.7	5.1	448	1.66	1.6	6.9	11.0	6	<0.1	0.1	<0.1	22	0.18
1625467	Rock	0.76	0.011	1.1	5.0	4.1	27	<0.1	4.9	4.5	535	1.57	2.4	6.9	14.2	5	<0.1	0.1	<0.1	13	0.12
1625468	Rock	0.68	0.013	1.3	7.2	3.8	32	<0.1	4.3	3.8	511	1.51	1.4	9.8	15.4	6	<0.1	0.1	<0.1	11	0.16
1625469	Rock	0.89	0.008	1.3	4.0	3.3	30	<0.1	2.7	2.8	474	1.39	0.8	4.9	16.8	3	<0.1	<0.1	<0.1	8	0.09
1625470	Rock	0.87	0.015	1.4	6.7	2.7	19	<0.1	2.4	2.2	238	1.00	0.9	12.1	16.7	3	<0.1	<0.1	<0.1	7	0.07



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1601059	Rock	0.022	11	9	0.26	121	0.068	<20	0.73	0.038	0.20	<0.1	<0.01	2.2	0.1	<0.05	3	<0.5	<0.2	
1601060	Rock	0.027	16	12	0.40	144	0.089	<20	1.00	0.036	0.21	<0.1	<0.01	2.7	0.1	<0.05	4	<0.5	<0.2	
1601061	Rock	0.026	21	15	0.37	158	0.088	<20	1.00	0.037	0.20	<0.1	<0.01	3.4	0.1	<0.05	4	<0.5	<0.2	
1601062	Rock	0.027	13	9	0.30	122	0.075	<20	0.76	0.038	0.21	<0.1	<0.01	2.4	0.1	<0.05	4	<0.5	<0.2	
1601063	Rock	0.023	15	9	0.32	123	0.092	<20	0.80	0.036	0.26	<0.1	<0.01	2.9	0.1	<0.05	4	<0.5	<0.2	
1601064	Rock	0.081	8	8	0.54	175	0.057	<20	1.26	0.023	0.30	<0.1	<0.01	2.6	0.1	<0.05	7	<0.5	<0.2	
1601065	Rock	0.030	12	14	0.39	147	0.070	<20	1.19	0.028	0.15	<0.1	<0.01	2.8	0.1	<0.05	5	<0.5	<0.2	
1625460	Rock	0.022	22	3	0.20	106	0.007	<20	0.60	0.029	0.12	<0.1	<0.01	1.6	<0.1	<0.05	4	<0.5	<0.2	
1625461	Rock	0.028	26	4	0.21	90	0.026	<20	0.64	0.029	0.22	<0.1	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2	
1625462	Rock	0.026	40	3	0.25	104	0.054	<20	0.83	0.027	0.36	<0.1	<0.01	2.4	0.1	<0.05	4	<0.5	<0.2	
1625463	Rock	0.023	37	4	0.11	137	0.018	<20	0.53	0.021	0.17	<0.1	0.02	2.9	<0.1	<0.05	2	<0.5	<0.2	
1625464	Rock	0.033	36	2	0.17	113	0.019	<20	0.61	0.023	0.23	<0.1	0.02	2.5	0.1	<0.05	3	<0.5	<0.2	
1625465	Rock	0.096	30	3	1.21	309	0.219	<20	1.91	0.023	1.06	0.3	0.01	7.0	0.3	<0.05	9	<0.5	<0.2	
1625466	Rock	0.055	24	3	0.29	98	0.061	<20	0.80	0.007	0.35	<0.1	0.01	3.3	0.1	<0.05	3	<0.5	<0.2	
1625467	Rock	0.033	43	4	0.09	88	0.016	<20	0.54	0.007	0.18	<0.1	0.02	3.6	<0.1	<0.05	2	<0.5	<0.2	
1625468	Rock	0.024	33	3	0.09	94	0.013	<20	0.52	0.010	0.15	<0.1	0.01	3.3	<0.1	<0.05	2	<0.5	<0.2	
1625469	Rock	0.017	36	5	0.03	97	0.002	<20	0.34	0.002	0.11	<0.1	0.02	2.4	<0.1	<0.05	1	<0.5	<0.2	
1625470	Rock	0.017	27	6	0.06	47	0.013	<20	0.44	0.003	0.13	0.1	0.02	2.3	<0.1	<0.05	2	<0.5	<0.2	



QUALITY CONTROL REPORT

WHI17000224.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
1625456	Rock	0.86	0.009	1.5	10.2	4.1	43	<0.1	3.6	3.6	475	1.75	<0.5	5.4	9.8	8	<0.1	0.1	<0.1	22	0.16
REP 1625456	QC	0.009																			
1601073	Rock	0.90	<0.005	0.9	5.0	1.8	34	<0.1	2.2	2.5	334	1.42	<0.5	<0.5	11.6	30	<0.1	0.1	<0.1	14	0.19
REP 1601073	QC	1.4 5.0 1.8 34 <0.1 2.4 2.5 329 1.42 <0.5 <0.5 11.6 30 <0.1 <0.1 <0.1 14 0.19																			
1625329	Rock	0.71	<0.005	0.6	9.8	2.5	48	<0.1	2.3	4.9	592	2.00	<0.5	1.1	8.6	17	<0.1	<0.1	0.2	27	0.19
REP 1625329	QC	0.6 9.8 2.6 53 <0.1 2.5 5.1 602 2.08 0.5 <0.5 8.8 18 <0.1 0.1 0.2 27 0.19																			
1601095	Rock	0.79	<0.005	0.4	10.0	3.5	29	<0.1	1.2	2.7	367	1.62	<0.5	<0.5	11.0	15	<0.1	<0.1	<0.1	15	0.51
REP 1601095	QC	<0.005																			
REP 1625478	QC	<0.005																			
1625485	Rock	0.72	<0.005	0.6	7.0	4.2	29	<0.1	2.0	2.1	280	1.07	<0.5	<0.5	7.5	8	<0.1	<0.1	<0.1	12	0.11
REP 1625485	QC	0.6 6.7 4.1 30 <0.1 1.8 2.1 293 1.06 <0.5 0.9 7.3 7 <0.1 <0.1 <0.1 12 0.12																			
1601056	Rock	0.15	<0.005	0.9	9.0	3.8	34	<0.1	7.7	4.9	243	1.50	2.6	<0.5	2.6	25	<0.1	0.1	<0.1	25	0.17
REP 1601056	QC	0.9 9.1 3.7 32 <0.1 7.5 4.9 240 1.50 2.0 <0.5 2.6 25 <0.1 0.1 <0.1 25 0.17																			
Core Reject Duplicates																					
1601067	Rock	0.83	<0.005	0.5	8.8	2.9	47	<0.1	3.8	2.8	302	1.56	1.0	<0.5	8.1	18	<0.1	0.1	<0.1	21	0.19
DUP 1601067	QC	<0.005 0.5 8.5 3.0 47 <0.1 4.0 3.2 306 1.60 0.9 <0.5 8.4 20 <0.1 <0.1 <0.1 22 0.20																			
1625323	Rock	0.74	<0.005	0.9	5.5	2.4	45	<0.1	1.7	3.4	434	1.76	<0.5	<0.5	7.0	14	<0.1	<0.1	<0.1	22	0.16
DUP 1625323	QC	<0.005 1.1 5.4 2.2 47 <0.1 1.7 3.5 434 1.75 <0.5 0.6 7.1 13 <0.1 <0.1 <0.1 21 0.15																			
1625478	Rock	0.67	<0.005	1.3	7.4	4.6	46	<0.1	1.9	3.8	406	1.58	0.6	1.3	6.6	7	<0.1	0.1	<0.1	22	0.25
DUP 1625478	QC	<0.005 1.1 7.2 4.4 43 <0.1 1.8 3.5 398 1.54 0.7 2.2 6.0 7 <0.1 <0.1 <0.1 20 0.24																			
1601048	Rock	0.83	0.006	0.7	10.1	4.0	39	<0.1	6.6	5.3	294	1.59	2.7	1.6	4.4	27	<0.1	0.1	<0.1	32	0.24
DUP 1601048	QC	<0.005 0.5 9.7 4.1 39 <0.1 6.5 5.3 296 1.61 2.9 <0.5 4.5 28 <0.1 0.1 <0.1 33 0.24																			
Reference Materials																					
STD DS10	Standard	13.0 152.2 148.5 369 1.8 73.2 12.6 890 2.76 46.7 77.3 8.2 72 2.9 8.4 13.3 44 1.03																			
STD DS10	Standard	13.0 144.6 143.2 352 1.8 70.2 11.6 854 2.68 44.9 71.4 7.0 70 2.5 7.8 12.2 41 1.04																			
STD DS10	Standard	13.6 152.1 144.4 352 1.7 70.8 12.1 856 2.68 45.1 70.7 7.2 70 2.7 8.6 12.4 41 1.04																			
STD DS10	Standard	12.6 160.8 149.4 361 1.9 73.9 12.7 895 2.67 45.2 55.3 7.6 68 2.8 8.1 13.6 40 1.04																			
STD OREAS45EA	Standard	1.5 709.6 15.0 30 0.3 377.4 50.2 408 22.47 11.4 55.5 11.2 4 <0.1 0.3 0.3 313 0.03																			



Bureau Veritas Commodities Canada Ltd.
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Client: **White Gold Corp.**
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Dawson Yukon Y0B 1G0 Canada

Project: LOO
Report Date: July 27, 2017

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QUALITY CONTROL REPORT

WHI17000224.1

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																			
1625456	Rock	0.037	23	8	0.26	130	0.052	<20	0.78	0.018	0.29	<0.1	0.01	3.3	0.1	<0.05	4	<0.5	<0.2
REP 1625456	QC																		
1601073	Rock	0.026	17	8	0.24	91	0.034	<20	0.61	0.043	0.18	<0.1	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
REP 1601073	QC	0.024	17	9	0.24	90	0.034	<20	0.61	0.044	0.18	<0.1	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
1625329	Rock	0.024	19	7	0.61	136	0.100	<20	1.25	0.044	0.41	<0.1	<0.01	4.2	0.2	<0.05	6	<0.5	<0.2
REP 1625329	QC	0.025	20	7	0.64	140	0.103	<20	1.27	0.046	0.42	<0.1	<0.01	4.4	0.2	<0.05	7	<0.5	<0.2
1601095	Rock	0.023	39	6	0.17	106	0.042	<20	0.57	0.026	0.26	<0.1	<0.01	3.1	<0.1	<0.05	3	<0.5	<0.2
REP 1601095	QC																		
REP 1625478	QC																		
1625485	Rock	0.030	21	6	0.13	62	0.016	<20	0.57	0.020	0.20	<0.1	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
REP 1625485	QC	0.031	21	6	0.12	60	0.016	<20	0.58	0.020	0.20	<0.1	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
1601056	Rock	0.028	9	13	0.26	155	0.058	<20	0.87	0.062	0.16	<0.1	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
REP 1601056	QC	0.028	9	13	0.26	157	0.056	<20	0.86	0.061	0.16	<0.1	<0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
Core Reject Duplicates																			
1601067	Rock	0.026	14	9	0.31	134	0.033	<20	0.80	0.035	0.17	<0.1	<0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
DUP 1601067	QC	0.029	15	10	0.32	145	0.035	<20	0.85	0.040	0.19	<0.1	<0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
1625323	Rock	0.027	25	6	0.37	115	0.069	<20	0.89	0.054	0.37	<0.1	<0.01	3.5	0.1	<0.05	5	<0.5	<0.2
DUP 1625323	QC	0.030	25	6	0.36	110	0.068	<20	0.84	0.049	0.37	<0.1	<0.01	3.4	0.1	<0.05	4	<0.5	<0.2
1625478	Rock	0.053	22	6	0.19	93	0.024	<20	0.74	0.004	0.21	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
DUP 1625478	QC	0.049	20	6	0.16	87	0.021	<20	0.77	0.003	0.21	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
1601048	Rock	0.033	13	14	0.33	149	0.083	<20	0.98	0.039	0.17	<0.1	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
DUP 1601048	QC	0.032	13	14	0.34	152	0.084	<20	0.98	0.039	0.18	<0.1	<0.01	2.8	0.1	<0.05	4	<0.5	<0.2
Reference Materials																			
STD DS10	Standard	0.076	19	52	0.81	419	0.086	<20	1.08	0.072	0.34	3.0	0.30	3.1	5.2	0.28	5	1.9	5.1
STD DS10	Standard	0.080	17	51	0.76	424	0.073	<20	1.00	0.066	0.33	3.4	0.27	2.8	5.2	0.27	4	2.2	5.2
STD DS10	Standard	0.072	17	52	0.75	419	0.074	<20	1.01	0.066	0.33	3.1	0.28	2.9	5.4	0.28	4	1.7	5.1
STD DS10	Standard	0.078	18	53	0.75	421	0.082	<20	1.00	0.067	0.33	2.8	0.28	3.0	5.0	0.28	4	2.1	4.7
STD OREAS45EA	Standard	0.026	8	782	0.09	149	0.100	<20	3.35	0.020	0.05	<0.1	<0.01	78.8	<0.1	<0.05	13	0.6	<0.2



Bureau Veritas Commodities Canada Ltd.
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Project: LOO
Report Date: July 27, 2017

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QUALITY CONTROL REPORT

WHI17000224.1

		WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
STD OREAS45EA	Standard			1.4	704.6	13.5	31	0.2	383.8	49.3	420	22.46	11.2	47.8	10.1	4	<0.1	0.3	0.3	307	0.04
STD OREAS45EA	Standard			1.4	706.9	13.6	30	0.3	380.3	51.0	408	22.56	10.4	53.0	10.4	4	<0.1	0.3	0.2	306	0.04
STD OREAS45EA	Standard			1.5	699.9	15.1	31	0.3	370.5	54.0	402	22.43	10.6	48.5	11.0	4	<0.1	0.2	0.3	296	0.04
STD OXC145	Standard		0.217																		
STD OXC145	Standard		0.215																		
STD OXC145	Standard		0.220																		
STD OXH122	Standard		1.247																		
STD OXH122	Standard		1.305																		
STD OXH122	Standard		1.243																		
STD OXN117	Standard		7.913																		
STD OXN117	Standard		7.914																		
STD OXN117	Standard		7.984																		
STD DS10 Expected				13.6	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625
STD OREAS45EA Expected				1.6	709	14.3	31.4	0.26	381	52	400	23.51	10.3	53	10.7	3.5	0.03	0.32	0.26	303	0.036
STD OXN117 Expected			7.679																		
STD OXC145 Expected			0.212																		
STD OXH122 Expected			1.247																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
Prep Wash																					
ROCK-WHI	Prep Blank		<0.005	0.7	3.6	9.1	53	<0.1	0.9	3.4	523	1.83	1.1	<0.5	2.0	21	0.3	<0.1	<0.1	22	0.52



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Project: LOO
Report Date: July 27, 2017

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QUALITY CONTROL REPORT

WHI17000224.1

		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200		
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
STD OREAS45EA	Standard	0.030	7	808	0.10	147	0.096	<20	3.28	0.015	0.05	<0.1	<0.01	83.3	<0.1	<0.05	13	<0.5	<0.2	
STD OREAS45EA	Standard	0.031	7	817	0.10	146	0.095	<20	3.28	0.016	0.05	<0.1	0.01	78.5	<0.1	<0.05	12	<0.5	<0.2	
STD OREAS45EA	Standard	0.027	8	793	0.09	153	0.106	<20	3.27	0.015	0.05	<0.1	<0.01	79.9	<0.1	<0.05	12	0.6	<0.2	
STD OXC145	Standard																			
STD OXC145	Standard																			
STD OXC145	Standard																			
STD OXH122	Standard																			
STD OXH122	Standard																			
STD OXH122	Standard																			
STD OXH122	Standard																			
STD OXN117	Standard																			
STD OXN117	Standard																			
STD OXN117	Standard																			
STD DS10 Expected		0.0765	17.5	54.6	0.775	412	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3	2.3	5.01	
STD OREAS45EA Expected		0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053			78	0.072	0.036	12.4	0.78	0.07	
STD OXN117 Expected																				
STD OXC145 Expected																				
STD OXH122 Expected																				
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
Prep Wash																				
ROCK-WHI	Prep Blank	0.040	5	8	0.46	249	0.060	<20	0.82	0.070	0.08	<0.1	0.03	2.2	<0.1	0.05	3	<0.5	<0.2	



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QUALITY CONTROL REPORT

WHI17000224.1

WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca		
kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%		
0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01		
ROCK-WHI	Prep Blank	<0.005	0.8	2.9	2.9	36	<0.1	0.9	3.6	488	1.77	0.8	<0.5	2.0	18	<0.1	<0.1	<0.1	20	0.49	



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QUALITY CONTROL REPORT

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	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
ROCK-WHI	Prep Blank	0.039	5	8	0.42	83	0.064	<20	0.76	0.073	0.08	0.2	0.01	2.2	<0.1	<0.05	3	<0.5	<0.2



BUREAU VERITAS MINERAL LABORATORIES
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Bureau Veritas Commodities Canada Ltd.
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Client: **White Gold Corp.**
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Submitted By: Jodie Gibson
Receiving Lab: Canada-Whitehorse
Received: July 05, 2017
Report Date: July 23, 2017
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CERTIFICATE OF ANALYSIS

WHI17000244.1

CLIENT JOB INFORMATION

Project: LOO
Shipment ID: LOO-20170704-001-ROCK
P.O. Number
Number of Samples: 18

SAMPLE DISPOSAL

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

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

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

CC: Isaac Fage
Shawn Ryan
Greg Dawson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	17	Crush, split and pulverize 250 g rock to 200 mesh			WHI
SLBHP	1	Sort, label and box pulps			WHI
FA430	18	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	18	Environmental disposal charge-Fire assay lead waste			VAN
AQ200	18	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	18	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



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



BUREAU VERITAS MINERAL LABORATORIES
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CERTIFICATE OF ANALYSIS

WHI17000244.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1625425	Rock	0.69	<0.005	0.5	5.0	3.6	26	<0.1	3.3	2.7	342	1.34	0.8	0.9	13.6	8	<0.1	<0.1	<0.1	12	0.10
1625426	Rock Pulp	0.13	<0.005	2.5	25.0	2.5	44	0.2	23.3	9.9	400	2.37	4.1	5.3	1.0	41	0.2	0.3	<0.1	57	0.81
1625427	Rock	0.71	<0.005	0.6	3.6	3.8	24	<0.1	1.8	1.9	318	0.80	0.5	0.8	9.7	5	<0.1	<0.1	<0.1	8	0.10
1625428	Rock	0.69	<0.005	0.3	3.1	1.8	21	<0.1	2.2	1.9	174	0.90	0.5	<0.5	9.6	10	<0.1	<0.1	<0.1	9	0.08
1625429	Rock	0.78	<0.005	0.5	4.0	5.0	63	<0.1	3.5	4.2	477	1.52	0.5	1.3	1.9	9	<0.1	<0.1	<0.1	26	0.45
1625430	Rock	0.78	<0.005	1.2	7.8	4.1	33	<0.1	3.1	3.7	584	1.58	0.6	1.0	21.0	7	<0.1	<0.1	<0.1	16	0.11
1625431	Rock	0.75	<0.005	0.7	4.9	3.2	23	<0.1	4.3	2.7	305	1.28	<0.5	0.7	19.1	6	<0.1	<0.1	<0.1	8	0.09
1625432	Rock	0.78	<0.005	0.5	3.6	2.7	24	<0.1	2.9	2.7	332	1.28	0.6	<0.5	14.7	10	<0.1	<0.1	<0.1	10	0.09
1625433	Rock	0.74	<0.005	0.5	4.2	2.2	25	<0.1	1.9	2.2	284	1.10	0.5	<0.5	14.7	7	<0.1	<0.1	<0.1	11	0.08
1625434	Rock	0.67	<0.005	0.3	2.1	1.7	43	<0.1	2.6	1.4	162	0.82	<0.5	<0.5	1.8	18	<0.1	<0.1	<0.1	10	0.09
1625435	Rock	0.79	<0.005	0.3	2.4	2.3	31	<0.1	2.0	1.2	173	0.71	<0.5	<0.5	5.8	16	<0.1	<0.1	<0.1	7	0.09
1625436	Rock	0.77	<0.005	0.4	3.1	2.3	18	<0.1	3.3	2.5	316	1.27	0.6	0.7	19.2	9	<0.1	<0.1	<0.1	10	0.11
1625437	Rock	0.70	<0.005	0.3	4.5	3.1	18	<0.1	2.3	1.8	268	0.95	<0.5	<0.5	14.9	8	<0.1	<0.1	<0.1	8	0.11
1625438	Rock	0.82	<0.005	0.4	2.6	1.7	19	<0.1	2.1	2.3	242	1.10	<0.5	0.6	12.0	8	<0.1	<0.1	<0.1	9	0.06
1625439	Rock	0.71	<0.005	0.7	3.4	2.6	22	<0.1	3.0	2.3	285	1.10	<0.5	1.5	13.2	7	<0.1	<0.1	<0.1	7	0.08
1625440	Rock	0.84	0.005	0.4	3.1	4.4	23	<0.1	2.1	2.1	307	1.06	<0.5	2.4	13.8	10	<0.1	<0.1	<0.1	10	0.10
1625441	Rock	0.75	0.006	0.4	4.4	3.4	21	<0.1	3.7	2.6	346	1.21	<0.5	4.7	17.4	8	<0.1	<0.1	<0.1	10	0.11
1625442	Rock	0.83	0.012	0.7	6.1	3.1	21	<0.1	2.0	2.5	264	1.07	<0.5	6.7	14.7	7	<0.1	<0.1	<0.1	8	0.08



BUREAU VERITAS MINERAL LABORATORIES
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Project: LOO
Report Date: July 23, 2017

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CERTIFICATE OF ANALYSIS

WHI17000244.1

Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1625425	Rock	0.019	33	6	0.17	72	0.051	<20	0.63	0.043	0.31	<0.1	0.01	2.9	0.1	<0.05	3	<0.5	<0.2	
1625426	Rock Pulp	0.057	5	29	0.76	94	0.139	<20	1.52	0.077	0.13	11.4	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2	
1625427	Rock	0.019	24	3	0.10	49	0.012	<20	0.32	0.009	0.12	<0.1	0.01	1.9	<0.1	<0.05	2	<0.5	<0.2	
1625428	Rock	0.016	9	5	0.17	50	0.032	<20	0.49	0.063	0.22	<0.1	<0.01	1.7	<0.1	<0.05	3	<0.5	<0.2	
1625429	Rock	0.047	21	5	0.22	115	0.022	<20	0.90	0.012	0.23	<0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2	
1625430	Rock	0.027	43	2	0.25	99	0.056	<20	0.74	0.033	0.36	<0.1	0.02	3.2	0.1	<0.05	4	<0.5	<0.2	
1625431	Rock	0.019	47	5	0.16	63	0.029	<20	0.58	0.038	0.26	<0.1	<0.01	2.2	<0.1	<0.05	3	<0.5	<0.2	
1625432	Rock	0.020	26	5	0.21	69	0.036	<20	0.68	0.044	0.28	<0.1	<0.01	2.2	0.1	<0.05	3	<0.5	<0.2	
1625433	Rock	0.019	26	2	0.22	61	0.047	<20	0.64	0.026	0.28	<0.1	<0.01	2.7	0.1	<0.05	4	<0.5	<0.2	
1625434	Rock	0.017	8	6	0.20	77	0.024	<20	0.58	0.072	0.19	<0.1	<0.01	1.2	<0.1	<0.05	4	<0.5	<0.2	
1625435	Rock	0.016	17	2	0.18	71	0.013	<20	0.53	0.069	0.17	<0.1	<0.01	1.0	<0.1	<0.05	3	<0.5	<0.2	
1625436	Rock	0.019	27	5	0.21	66	0.037	<20	0.71	0.047	0.30	<0.1	<0.01	2.6	0.1	<0.05	3	<0.5	<0.2	
1625437	Rock	0.017	39	2	0.19	72	0.033	<20	0.69	0.043	0.30	<0.1	<0.01	1.9	0.1	<0.05	3	<0.5	<0.2	
1625438	Rock	0.014	7	5	0.18	60	0.050	<20	0.57	0.051	0.30	<0.1	<0.01	1.7	0.1	<0.05	3	<0.5	<0.2	
1625439	Rock	0.018	18	6	0.16	67	0.029	<20	0.56	0.041	0.23	<0.1	<0.01	1.7	<0.1	<0.05	3	<0.5	<0.2	
1625440	Rock	0.018	23	2	0.19	72	0.044	<20	0.60	0.047	0.27	<0.1	<0.01	2.1	0.1	<0.05	3	<0.5	<0.2	
1625441	Rock	0.021	33	5	0.19	69	0.033	<20	0.66	0.042	0.24	<0.1	<0.01	2.3	<0.1	<0.05	3	<0.5	<0.2	
1625442	Rock	0.019	17	3	0.19	58	0.011	<20	0.57	0.041	0.15	<0.1	<0.01	1.7	<0.1	<0.05	3	<0.5	<0.2	



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Project: LOO
Report Date: July 23, 2017

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QUALITY CONTROL REPORT

WHI17000244.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
1625426	Rock Pulp	0.13	<0.005	2.5	25.0	2.5	44	0.2	23.3	9.9	400	2.37	4.1	5.3	1.0	41	0.2	0.3	<0.1	57	0.81
REP 1625426	QC			2.2	24.7	2.4	44	0.3	23.8	9.8	391	2.32	4.1	4.6	1.0	39	0.1	0.3	<0.1	56	0.79
1625431	Rock	0.75	<0.005	0.7	4.9	3.2	23	<0.1	4.3	2.7	305	1.28	<0.5	0.7	19.1	6	<0.1	<0.1	<0.1	8	0.09
REP 1625431	QC		<0.005																		
Core Reject Duplicates																					
1625429	Rock	0.78	<0.005	0.5	4.0	5.0	63	<0.1	3.5	4.2	477	1.52	0.5	1.3	1.9	9	<0.1	<0.1	<0.1	26	0.45
DUP 1625429	QC		<0.005	0.7	3.6	4.9	62	<0.1	4.1	4.2	472	1.60	0.6	2.0	1.9	10	<0.1	<0.1	<0.1	26	0.46
Reference Materials																					
STD DS10	Standard			13.9	144.7	143.8	343	1.8	70.2	12.0	822	2.59	43.0	150.6	7.6	66	2.6	8.4	12.2	39	0.99
STD OREAS45EA	Standard			1.6	687.7	14.4	30	0.3	368.8	49.1	404	21.41	11.2	51.6	10.5	4	<0.1	0.4	0.2	292	0.04
STD OXC145	Standard		0.207																		
STD OXH122	Standard		1.236																		
STD OXN117	Standard		7.941																		
STD DS10 Expected				13.6	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625
STD OREAS45EA Expected				1.6	709	14.3	31.4	0.26	381	52	400	23.51	10.3	53	10.7	3.5	0.03	0.32	0.26	303	0.036
STD OXN117 Expected			7.679																		
STD OXC145 Expected			0.212																		
STD OXH122 Expected			1.247																		
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
Prep Wash																					
ROCK-WHI	Prep Blank		<0.005	0.7	4.4	3.2	33	<0.1	1.7	3.8	498	1.76	2.3	0.8	2.3	22	<0.1	<0.1	<0.1	21	0.52
ROCK-WHI	Prep Blank		<0.005	0.5	3.6	2.3	32	<0.1	0.9	3.4	558	1.69	1.4	0.7	2.4	25	<0.1	<0.1	<0.1	20	0.53



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Project: LOO
Report Date: July 23, 2017

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QUALITY CONTROL REPORT

WHI17000244.1

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																			
1625426	Rock Pulp	0.057	5	29	0.76	94	0.139	<20	1.52	0.077	0.13	11.4	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
REP 1625426	QC	0.055	4	29	0.74	91	0.139	<20	1.52	0.075	0.13	11.1	0.01	4.8	<0.1	<0.05	5	<0.5	<0.2
1625431	Rock	0.019	47	5	0.16	63	0.029	<20	0.58	0.038	0.26	<0.1	<0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
REP 1625431	QC																		
Core Reject Duplicates																			
1625429	Rock	0.047	21	5	0.22	115	0.022	<20	0.90	0.012	0.23	<0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
DUP 1625429	QC	0.046	20	7	0.22	117	0.022	<20	0.92	0.014	0.23	<0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
Reference Materials																			
STD DS10	Standard	0.070	18	51	0.72	390	0.078	<20	0.97	0.064	0.32	3.9	0.40	2.7	4.8	0.26	4	1.9	4.4
STD OREAS45EA	Standard	0.024	7	749	0.09	139	0.100	<20	3.26	0.014	0.05	<0.1	0.01	75.4	<0.1	<0.05	12	1.0	<0.2
STD OXC145	Standard																		
STD OXH122	Standard																		
STD OXN117	Standard																		
STD DS10 Expected		0.0765	17.5	54.6	0.775	412	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3	2.3	5.01
STD OREAS45EA Expected		0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053			78	0.072	0.036	12.4	0.78	0.07
STD OXN117 Expected																			
STD OXC145 Expected																			
STD OXH122 Expected																			
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank																		
BLK	Blank																		
Prep Wash																			
ROCK-WHI	Prep Blank	0.038	6	4	0.43	54	0.092	<20	0.85	0.084	0.09	0.1	<0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
ROCK-WHI	Prep Blank	0.039	6	2	0.46	63	0.097	<20	0.90	0.098	0.11	0.2	<0.01	3.0	<0.1	<0.05	4	<0.5	<0.2



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Submitted By: Jodie Gibson
Receiving Lab: Canada-Whitehorse
Received: July 10, 2017
Report Date: August 03, 2017
Page: 1 of 5

CERTIFICATE OF ANALYSIS

WHI17000267.1

CLIENT JOB INFORMATION

Project: LOO
Shipment ID: LOO-20170707-001-RAB
P.O. Number
Number of Samples: 95

SAMPLE DISPOSAL

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

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

Invoice To: Ground Truth Exploration Inc.
Box 70
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Canada

CC: Isaac Fage
Shawn Ryan
Greg Dawson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	93	Crush, split and pulverize 250 g rock to 200 mesh			WHI
SLBHP	2	Sort, label and box pulps			WHI
FA430	95	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	95	Environmental disposal charge-Fire assay lead waste			VAN
AQ200	95	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	95	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS


JEFFREY CANNON
Geochemistry Department Supervisor

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



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CERTIFICATE OF ANALYSIS

WHI17000267.1

Table with columns: Method, Analyte, Unit, MDL, WGHT, FA430, AQ200, AQ200, AQ200, AQ200, AQ200, AQ200, AQ200, AQ200, AQ200, AQ200, AQ200, AQ200, AQ200, AQ200, AQ200, AQ200, AQ200, AQ200, AQ200. Rows include sample IDs 1541112 through 1541141 and their corresponding analytical data.

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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CERTIFICATE OF ANALYSIS

WHI17000267.1

Method Analyte Unit MDL	AQ200 P %	AQ200 La ppm	AQ200 Cr ppm	AQ200 Mg %	AQ200 Ba ppm	AQ200 Ti %	AQ200 B ppm	AQ200 Al %	AQ200 Na %	AQ200 K %	AQ200 W ppm	AQ200 Hg ppm	AQ200 Sc ppm	AQ200 Ti ppm	AQ200 S %	AQ200 Ga ppm	AQ200 Se ppm	AQ200 Te ppm	
1541112	Rock	0.021	27	3	0.08	69	0.016	<20	0.40	0.026	0.17	0.6	<0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
1541113	Rock	0.025	29	4	0.08	112	0.016	<20	0.39	0.008	0.18	0.8	<0.01	1.7	<0.1	<0.05	2	<0.5	<0.2
1541114	Rock	0.023	27	4	0.14	216	0.010	<20	0.50	0.007	0.16	0.4	<0.01	2.3	<0.1	<0.05	2	<0.5	<0.2
1541115	Rock	0.026	29	5	0.08	114	0.018	<20	0.40	0.005	0.17	0.6	<0.01	2.6	<0.1	<0.05	2	<0.5	<0.2
1541116	Rock	0.030	34	4	0.09	108	0.017	<20	0.45	0.019	0.18	0.6	<0.01	2.3	<0.1	<0.05	2	<0.5	<0.2
1541117	Rock	0.030	27	3	0.07	67	0.014	<20	0.36	0.018	0.16	0.4	<0.01	2.5	<0.1	<0.05	2	<0.5	<0.2
1541118	Rock	0.023	29	4	0.08	67	0.017	<20	0.40	0.027	0.17	0.4	<0.01	2.4	<0.1	<0.05	2	<0.5	<0.2
1541119	Rock	0.023	27	4	0.12	50	0.015	<20	0.39	0.026	0.14	0.4	<0.01	1.9	<0.1	<0.05	2	<0.5	<0.2
1541120	Rock	0.017	3	3	10.96	19	0.003	<20	0.10	0.002	0.02	0.2	0.02	0.6	<0.1	<0.05	<1	<0.5	<0.2
1541121	Rock	0.025	28	4	0.06	150	0.003	<20	0.35	0.023	0.14	0.4	<0.01	1.6	<0.1	<0.05	1	<0.5	<0.2
1541122	Rock	0.029	30	4	0.04	71	0.002	<20	0.31	0.023	0.15	0.4	<0.01	1.4	<0.1	<0.05	<1	<0.5	0.4
1541123	Rock	0.023	28	4	0.05	63	<0.001	<20	0.26	0.009	0.14	0.4	0.02	1.6	<0.1	<0.05	<1	<0.5	0.2
1541124	Rock	0.027	34	4	0.38	81	0.002	<20	0.68	0.024	0.18	0.2	0.03	3.2	<0.1	<0.05	3	<0.5	0.5
1541125	Rock	0.026	31	5	0.17	122	0.004	<20	0.41	0.018	0.10	0.3	<0.01	2.2	<0.1	<0.05	2	<0.5	<0.2
1541126	Rock	0.033	28	4	0.18	57	0.026	<20	0.54	0.024	0.23	0.3	<0.01	3.3	<0.1	<0.05	3	<0.5	<0.2
1541127	Rock	0.023	32	5	0.15	40	0.013	<20	0.39	0.026	0.14	0.5	<0.01	2.3	<0.1	<0.05	2	<0.5	<0.2
1541128	Rock	0.022	33	5	0.22	35	0.019	<20	0.52	0.045	0.15	0.5	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
1541129	Rock	0.021	34	6	0.29	61	0.011	<20	0.53	0.032	0.10	0.3	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
1541130	Rock	0.032	30	6	0.31	77	0.047	<20	0.71	0.043	0.30	0.4	<0.01	2.6	0.1	<0.05	3	<0.5	<0.2
1541131	Rock	0.029	28	5	0.30	73	0.058	<20	0.71	0.026	0.35	0.5	<0.01	3.2	0.1	<0.05	4	<0.5	<0.2
1541132	Rock	0.023	28	7	0.23	46	0.035	<20	0.59	0.053	0.26	0.6	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
1541133	Rock	0.026	33	6	0.12	117	0.017	<20	0.42	0.017	0.14	0.5	<0.01	2.1	<0.1	<0.05	2	<0.5	<0.2
1541134	Rock	0.026	33	5	0.16	92	0.023	<20	0.55	0.033	0.19	0.4	<0.01	2.1	<0.1	<0.05	2	<0.5	<0.2
1541135	Rock	0.025	34	5	0.20	67	0.043	<20	0.63	0.017	0.26	0.7	<0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
1541136	Rock	0.035	22	7	0.18	83	0.022	<20	0.67	0.009	0.26	0.5	<0.01	2.9	0.1	<0.05	3	<0.5	<0.2
1541137	Rock	0.025	29	5	0.09	53	0.010	<20	0.45	0.013	0.16	0.4	<0.01	2.9	<0.1	<0.05	2	<0.5	<0.2
1541138	Rock	0.027	31	5	0.18	84	0.042	<20	0.68	0.020	0.27	0.5	<0.01	3.5	<0.1	<0.05	3	<0.5	<0.2
1541139	Rock	0.027	29	6	0.15	47	0.026	<20	0.55	0.023	0.21	0.5	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
1541140	Rock Pulp	0.033	9	115	1.47	135	0.097	<20	2.70	0.315	0.23	0.9	0.03	2.6	<0.1	0.10	6	<0.5	<0.2
1541141	Rock	0.031	27	5	0.30	90	0.051	<20	0.77	0.024	0.33	0.4	<0.01	3.2	0.1	<0.05	3	<0.5	<0.2



CERTIFICATE OF ANALYSIS

WHI17000267.1

Method	Analyte	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
Unit	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1541142	Rock	3.68	<0.005	2.6	5.7	4.7	35	<0.1	1.6	4.6	451	1.65	0.5	1.4	9.9	74	<0.1	0.2	<0.1	21	1.82
1541143	Rock	2.99	0.011	2.6	4.9	4.4	30	<0.1	1.6	5.6	714	1.84	<0.5	7.3	7.5	85	<0.1	<0.1	<0.1	18	2.12
1541144	Rock	2.73	0.005	4.7	13.5	3.5	22	<0.1	6.0	4.1	264	1.30	1.9	3.4	15.2	7	<0.1	0.1	<0.1	14	0.13
1541145	Rock	4.10	0.352	2.0	9.6	3.7	17	0.2	3.9	2.9	308	1.02	0.7	314.0	16.8	9	<0.1	0.1	0.2	7	0.37
1541146	Rock	6.23	9.280	4.6	6.2	8.9	8	6.7	2.3	2.3	144	1.71	4.5	11058.4	13.4	14	<0.1	0.3	3.0	4	0.32
1541147	Rock	2.71	5.282	5.7	5.9	9.3	8	3.2	1.5	3.3	125	1.35	2.2	6285.7	15.6	11	<0.1	0.2	2.6	3	0.07
1541148	Rock	3.64	1.159	3.7	10.2	4.0	7	0.5	1.8	3.8	172	0.88	0.6	1142.4	19.3	10	<0.1	<0.1	0.5	3	0.43
1541149	Rock	3.61	0.727	5.7	9.1	3.8	10	0.4	1.4	3.3	191	1.12	0.8	690.4	21.1	12	<0.1	<0.1	0.3	3	0.54
1541150	Rock	2.14	0.227	4.3	10.6	2.7	16	0.1	2.1	2.8	244	1.05	<0.5	224.8	21.1	10	<0.1	<0.1	0.1	6	0.42
1541151	Rock	4.09	0.073	3.4	7.0	3.8	37	<0.1	1.7	5.2	559	1.86	<0.5	55.8	14.8	20	<0.1	0.1	<0.1	25	0.59
1541152	Rock	3.83	0.026	2.0	12.4	3.3	31	<0.1	2.6	5.5	428	1.77	0.7	17.2	15.0	31	<0.1	0.1	<0.1	22	1.13
1541153	Rock	3.50	0.018	1.4	8.9	2.6	23	<0.1	2.2	2.6	309	1.22	0.6	16.5	15.8	18	<0.1	<0.1	<0.1	9	0.69
1541154	Rock	3.63	0.018	2.1	2.6	4.7	26	<0.1	2.1	2.3	466	1.18	<0.5	14.9	10.8	30	<0.1	<0.1	<0.1	12	1.46
1541155	Rock	3.84	0.012	1.5	3.3	2.1	17	<0.1	1.5	1.8	282	1.03	<0.5	15.4	16.2	15	<0.1	<0.1	<0.1	7	0.47
1541156	Rock	3.42	0.020	1.6	6.9	2.0	22	<0.1	2.1	3.0	464	1.34	<0.5	23.1	15.4	12	<0.1	<0.1	<0.1	12	0.45
1541157	Rock	3.67	0.012	1.4	3.8	2.8	14	<0.1	2.1	1.9	235	0.88	0.6	11.4	17.5	14	<0.1	<0.1	<0.1	5	0.61
1541158	Rock	3.41	0.017	1.6	2.5	2.5	15	<0.1	1.5	1.7	336	1.02	<0.5	19.7	18.6	10	<0.1	<0.1	<0.1	5	0.30
1541159	Rock	3.65	0.030	1.6	4.4	2.1	15	<0.1	1.7	1.9	245	0.93	<0.5	25.7	18.2	11	<0.1	<0.1	<0.1	5	0.43
1541160	Rock	0.14	0.018	0.3	1.6	4.4	20	0.1	3.7	0.8	109	0.18	2.7	4.4	0.4	272	0.3	1.4	<0.1	15	21.81
1541161	Rock	3.57	0.007	2.2	4.2	2.1	19	<0.1	1.4	1.7	216	0.92	<0.5	9.5	16.7	15	<0.1	<0.1	<0.1	4	0.78
1541162	Rock	3.39	0.008	2.6	5.5	2.1	18	<0.1	1.5	2.1	273	1.02	<0.5	5.2	17.6	15	<0.1	<0.1	<0.1	6	0.63
1541163	Rock	4.07	0.011	2.7	5.0	2.2	23	<0.1	2.8	3.4	337	1.18	0.5	10.0	15.0	14	<0.1	<0.1	<0.1	14	0.71
1541164	Rock	3.68	0.009	8.3	3.6	2.3	14	<0.1	1.4	1.9	238	0.85	<0.5	6.9	14.4	24	<0.1	<0.1	<0.1	6	1.03
1541165	Rock	3.60	0.009	4.5	3.0	2.7	13	<0.1	1.5	1.9	278	0.88	<0.5	44.7	14.2	24	<0.1	<0.1	<0.1	5	1.19
1541166	Rock	3.46	0.006	2.7	4.0	2.9	12	<0.1	1.6	2.0	218	0.81	<0.5	3.9	16.6	23	<0.1	<0.1	<0.1	5	1.09
1541167	Rock	3.31	0.010	5.4	5.6	4.2	31	<0.1	1.3	5.3	700	1.91	<0.5	7.5	12.0	52	<0.1	<0.1	<0.1	22	3.07
1541168	Rock	3.85	0.005	1.3	4.6	2.7	49	<0.1	1.6	8.3	882	2.87	<0.5	5.6	6.8	74	<0.1	0.1	<0.1	45	2.08
1541169	Rock	3.81	0.009	2.0	5.0	2.6	44	<0.1	1.8	4.6	566	1.83	<0.5	7.6	11.2	31	<0.1	<0.1	<0.1	21	0.56
1541170	Rock	4.40	0.008	1.9	5.4	2.8	22	<0.1	2.0	3.5	399	1.23	<0.5	5.5	14.5	38	<0.1	<0.1	<0.1	11	1.16
1541171	Rock	4.06	0.006	1.2	3.3	2.9	20	<0.1	1.7	2.8	432	1.20	<0.5	3.4	14.1	60	<0.1	<0.1	<0.1	9	1.63



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Project: LOO
Report Date: August 03, 2017

CERTIFICATE OF ANALYSIS

WHI17000267.1

Method Analyte	Unit	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
MDL		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
1541142	Rock	0.035	27	6	0.24	61	0.045	<20	0.66	0.025	0.30	0.3	<0.01	4.8	<0.1	<0.05	3	<0.5	<0.2	
1541143	Rock	0.033	25	6	0.25	209	0.044	<20	0.70	0.019	0.33	0.3	<0.01	3.3	0.1	<0.05	3	<0.5	<0.2	
1541144	Rock	0.016	26	8	0.12	63	0.030	<20	0.53	0.013	0.16	0.5	<0.01	2.9	<0.1	<0.05	2	<0.5	<0.2	
1541145	Rock	0.018	33	4	0.08	66	0.004	<20	0.43	0.021	0.15	0.5	0.05	2.1	<0.1	<0.05	1	<0.5	0.4	
1541146	Rock	0.012	24	4	0.03	76	0.001	<20	0.35	0.016	0.18	0.6	0.38	1.1	<0.1	0.07	1	<0.5	10.9	
1541147	Rock	0.013	15	4	0.02	63	<0.001	<20	0.42	0.001	0.15	0.5	0.40	1.0	<0.1	<0.05	1	<0.5	7.2	
1541148	Rock	0.017	26	4	0.02	54	0.002	<20	0.37	0.009	0.13	0.6	0.09	1.1	0.1	<0.05	<1	<0.5	1.3	
1541149	Rock	0.014	28	3	0.03	58	0.003	<20	0.34	0.019	0.14	0.5	0.12	1.5	<0.1	<0.05	1	<0.5	1.1	
1541150	Rock	0.012	32	4	0.07	52	0.013	<20	0.35	0.028	0.13	0.6	0.05	1.9	<0.1	<0.05	2	<0.5	<0.2	
1541151	Rock	0.041	29	5	0.34	116	0.024	<20	0.87	0.030	0.22	0.4	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2	
1541152	Rock	0.045	34	4	0.36	72	0.040	<20	0.76	0.027	0.25	0.7	0.01	3.2	0.1	<0.05	4	<0.5	<0.2	
1541153	Rock	0.016	31	9	0.14	51	0.023	<20	0.45	0.038	0.16	0.7	0.01	2.2	<0.1	<0.05	2	<0.5	<0.2	
1541154	Rock	0.018	24	5	0.10	81	0.004	<20	0.40	0.025	0.12	0.4	0.01	1.7	<0.1	<0.05	2	<0.5	<0.2	
1541155	Rock	0.011	29	5	0.11	54	0.030	<20	0.40	0.048	0.20	1.8	<0.01	1.9	<0.1	<0.05	2	<0.5	<0.2	
1541156	Rock	0.024	30	5	0.19	84	0.052	<20	0.56	0.038	0.31	0.8	<0.01	2.4	0.1	<0.05	3	<0.5	<0.2	
1541157	Rock	0.012	27	6	0.05	41	0.013	<20	0.32	0.029	0.14	0.5	0.01	1.6	<0.1	<0.05	1	<0.5	<0.2	
1541158	Rock	0.012	29	5	0.06	61	0.021	<20	0.41	0.022	0.17	0.6	0.01	1.4	<0.1	<0.05	2	<0.5	<0.2	
1541159	Rock	0.009	31	5	0.06	41	0.021	<20	0.32	0.035	0.16	0.9	<0.01	1.6	<0.1	<0.05	2	<0.5	<0.2	
1541160	Rock	0.019	2	3	10.48	16	0.002	<20	0.08	<0.001	0.01	0.2	<0.01	0.9	<0.1	<0.05	<1	<0.5	<0.2	
1541161	Rock	0.011	29	5	0.05	37	0.012	<20	0.29	0.037	0.15	0.8	<0.01	1.2	<0.1	<0.05	1	<0.5	<0.2	
1541162	Rock	0.016	31	6	0.06	48	0.018	<20	0.33	0.041	0.17	0.8	<0.01	1.7	<0.1	<0.05	2	<0.5	<0.2	
1541163	Rock	0.020	29	6	0.24	56	0.041	<20	0.57	0.034	0.30	0.7	0.01	2.3	0.1	<0.05	3	<0.5	<0.2	
1541164	Rock	0.013	29	5	0.12	40	0.024	<20	0.38	0.027	0.19	0.7	<0.01	1.7	<0.1	<0.05	2	<0.5	<0.2	
1541165	Rock	0.015	29	5	0.06	64	0.017	<20	0.40	0.016	0.16	0.5	<0.01	1.8	<0.1	<0.05	2	<0.5	<0.2	
1541166	Rock	0.014	33	6	0.07	47	0.017	<20	0.41	0.004	0.16	0.6	<0.01	1.7	<0.1	<0.05	2	<0.5	<0.2	
1541167	Rock	0.045	26	4	0.31	754	0.077	<20	0.85	0.004	0.45	0.5	<0.01	4.9	0.2	<0.05	3	<0.5	<0.2	
1541168	Rock	0.083	23	5	0.81	188	0.191	<20	1.49	0.028	0.94	0.3	<0.01	7.7	0.2	<0.05	6	<0.5	<0.2	
1541169	Rock	0.050	26	6	0.40	141	0.095	<20	0.93	0.039	0.46	0.7	<0.01	4.1	0.1	<0.05	5	<0.5	<0.2	
1541170	Rock	0.025	29	6	0.17	49	0.043	<20	0.50	0.033	0.28	0.7	<0.01	2.3	0.1	<0.05	2	<0.5	<0.2	
1541171	Rock	0.021	30	6	0.27	41	0.041	<20	0.47	0.035	0.26	0.7	<0.01	2.1	0.1	<0.05	2	<0.5	<0.2	



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Project: LOO
Report Date: August 03, 2017

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000267.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1541172	Rock	4.21	0.005	1.2	4.4	2.3	24	<0.1	2.7	3.6	454	1.43	<0.5	5.1	14.4	42	<0.1	<0.1	<0.1	13	1.11
1541173	Rock	3.43	0.019	2.6	4.3	2.1	24	<0.1	1.9	3.1	359	1.31	<0.5	16.7	15.5	17	<0.1	<0.1	<0.1	12	0.47
1541174	Rock	4.20	0.011	4.7	3.5	1.8	19	<0.1	1.9	3.0	357	1.18	0.6	6.7	13.5	18	<0.1	<0.1	<0.1	9	0.80
1541175	Rock	3.88	0.006	3.8	4.5	2.4	28	<0.1	1.7	4.0	498	1.58	<0.5	4.0	13.4	44	<0.1	<0.1	<0.1	15	1.65
1541176	Rock	3.92	<0.005	5.2	7.8	2.6	36	<0.1	3.3	5.3	671	1.96	1.3	1.9	12.0	41	<0.1	<0.1	<0.1	20	1.27
1541177	Rock	4.20	<0.005	2.4	8.5	2.2	35	<0.1	3.1	4.9	650	1.89	<0.5	3.2	12.8	45	<0.1	<0.1	<0.1	20	1.39
1541178	Rock	4.74	0.008	1.8	6.0	2.8	41	<0.1	2.3	5.2	605	1.82	<0.5	4.4	11.1	46	<0.1	<0.1	<0.1	20	1.19
1541179	Rock	4.59	0.006	1.7	4.9	3.8	38	<0.1	1.7	5.2	559	1.95	<0.5	4.4	10.3	60	<0.1	<0.1	0.1	22	1.13
1541180	Rock Pulp	0.09	4.983	8.3	199.0	24.3	78	0.8	14.3	11.6	609	4.29	12.1	4596.4	3.1	76	0.2	4.3	0.5	105	0.98
1541181	Rock	1.43	0.015	2.7	5.2	4.4	40	<0.1	2.1	4.9	595	2.01	0.7	8.7	10.6	56	<0.1	<0.1	0.1	24	1.24
1541182	Rock	2.45	0.006	2.8	5.1	2.6	39	<0.1	2.5	5.6	604	2.23	<0.5	3.0	11.0	46	<0.1	<0.1	<0.1	26	0.92
1541183	Rock	3.46	0.005	1.5	3.1	4.3	41	<0.1	2.3	5.8	610	2.08	<0.5	3.3	10.9	59	<0.1	<0.1	<0.1	26	1.58
1541184	Rock	3.70	<0.005	1.5	6.5	2.0	36	<0.1	2.4	5.2	500	2.01	<0.5	3.3	9.0	41	<0.1	<0.1	<0.1	28	0.81
1541185	Rock	3.44	<0.005	2.0	5.9	1.8	35	<0.1	2.6	5.5	539	2.05	<0.5	2.5	10.8	32	<0.1	<0.1	<0.1	25	0.63
1541186	Rock	3.60	<0.005	1.9	3.2	1.4	33	<0.1	1.9	4.1	509	1.88	<0.5	3.2	9.7	26	<0.1	<0.1	<0.1	22	0.53
1541187	Rock	3.65	0.008	1.7	3.0	1.8	33	<0.1	2.2	4.6	490	1.95	<0.5	2.8	10.8	30	<0.1	<0.1	<0.1	24	0.51
1541188	Rock	3.30	<0.005	1.9	3.5	1.9	35	<0.1	1.9	5.0	571	2.11	<0.5	1.8	10.4	23	<0.1	<0.1	<0.1	25	0.34
1541189	Rock	3.69	<0.005	1.8	1.9	1.8	29	<0.1	2.3	3.7	447	1.70	<0.5	1.2	10.3	37	<0.1	<0.1	<0.1	19	0.75
1541190	Rock	4.29	<0.005	2.0	5.4	3.5	48	<0.1	2.5	5.8	667	2.30	<0.5	2.1	10.4	66	<0.1	<0.1	<0.1	29	2.10
1541191	Rock	4.23	<0.005	2.4	3.6	3.3	75	<0.1	2.0	6.0	898	2.47	<0.5	1.6	12.3	86	<0.1	<0.1	<0.1	31	3.65
1541192	Rock	4.08	<0.005	2.2	3.3	3.6	55	<0.1	2.6	5.2	709	2.21	<0.5	1.7	10.6	85	<0.1	<0.1	<0.1	27	2.22
1541193	Rock	4.20	<0.005	2.2	2.7	3.8	41	<0.1	1.8	4.3	660	1.98	<0.5	1.9	10.2	61	<0.1	<0.1	<0.1	23	1.79
1541194	Rock	3.42	<0.005	3.4	5.7	4.7	38	<0.1	2.0	4.6	840	1.87	<0.5	3.5	9.8	49	<0.1	<0.1	<0.1	18	1.26
1541195	Rock	3.59	<0.005	3.1	4.2	5.3	29	<0.1	1.4	2.7	700	1.31	1.2	<0.5	12.1	48	<0.1	<0.1	<0.1	9	1.00
1541196	Rock	2.35	<0.005	3.7	8.2	5.0	34	<0.1	2.2	3.6	546	1.64	0.7	1.5	12.4	33	<0.1	<0.1	<0.1	14	0.52
1541197	Rock	3.27	<0.005	3.2	6.0	3.5	39	<0.1	2.2	4.9	528	1.86	0.6	1.9	10.6	54	<0.1	0.1	<0.1	17	1.40
1541198	Rock	3.77	<0.005	1.9	3.3	3.2	43	<0.1	1.9	4.8	556	2.01	<0.5	0.9	10.0	49	<0.1	<0.1	<0.1	22	1.44
1541199	Rock	4.09	<0.005	3.3	4.6	3.1	40	<0.1	2.1	5.9	632	2.16	<0.5	1.2	10.0	58	<0.1	<0.1	<0.1	30	1.37
1541200	Rock	0.16	<0.005	0.5	2.4	4.4	25	0.1	2.6	0.9	141	0.27	3.1	2.2	0.7	261	0.3	1.4	<0.1	16	20.33
1541201	Rock	3.56	<0.005	2.1	3.2	3.7	36	<0.1	1.6	5.3	606	2.06	<0.5	0.6	9.6	74	<0.1	<0.1	<0.1	27	2.10



CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	AQ200 P %	AQ200 La ppm	AQ200 Cr ppm	AQ200 Mg %	AQ200 Ba ppm	AQ200 Ti %	AQ200 B ppm	AQ200 Al %	AQ200 Na %	AQ200 K %	AQ200 W ppm	AQ200 Hg ppm	AQ200 Sc ppm	AQ200 Ti ppm	AQ200 S %	AQ200 Ga ppm	AQ200 Se ppm	AQ200 Te ppm	
																			0.001
1541172	Rock	0.026	32	8	0.23	58	0.069	<20	0.58	0.043	0.34	0.8	<0.01	2.5	0.1	<0.05	3	<0.5	<0.2
1541173	Rock	0.021	24	8	0.16	67	0.037	<20	0.56	0.037	0.26	0.4	<0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
1541174	Rock	0.018	30	7	0.13	60	0.033	<20	0.48	0.028	0.23	0.5	<0.01	1.6	<0.1	<0.05	2	<0.5	<0.2
1541175	Rock	0.040	31	6	0.19	51	0.048	<20	0.57	0.033	0.30	0.4	<0.01	3.9	0.1	<0.05	3	<0.5	<0.2
1541176	Rock	0.047	29	9	0.30	80	0.062	<20	0.74	0.025	0.38	0.3	0.02	5.1	0.1	<0.05	4	<0.5	<0.2
1541177	Rock	0.032	31	9	0.41	75	0.086	<20	0.81	0.037	0.47	0.6	<0.01	3.4	0.2	<0.05	4	<0.5	<0.2
1541178	Rock	0.036	29	8	0.42	86	0.099	<20	0.84	0.037	0.47	0.5	<0.01	3.4	0.2	<0.05	4	<0.5	<0.2
1541179	Rock	0.033	29	8	0.44	88	0.095	<20	0.83	0.037	0.45	0.5	<0.01	3.9	0.1	<0.05	4	<0.5	<0.2
1541180	Rock Pulp	0.066	8	20	0.88	136	0.153	<20	1.78	0.195	0.24	5.2	0.17	3.3	<0.1	<0.05	5	<0.5	<0.2
1541181	Rock	0.036	30	11	0.42	74	0.076	<20	0.87	0.039	0.42	0.8	<0.01	3.9	0.1	<0.05	4	<0.5	<0.2
1541182	Rock	0.035	30	13	0.52	112	0.129	<20	0.97	0.051	0.62	1.5	<0.01	5.0	0.1	<0.05	5	<0.5	<0.2
1541183	Rock	0.041	33	9	0.57	142	0.113	<20	0.98	0.023	0.55	0.6	<0.01	4.7	0.2	<0.05	5	<0.5	<0.2
1541184	Rock	0.032	26	10	0.57	106	0.120	<20	0.92	0.049	0.62	1.0	<0.01	5.2	0.1	<0.05	5	<0.5	<0.2
1541185	Rock	0.033	29	13	0.48	118	0.130	<20	0.96	0.045	0.66	1.2	<0.01	4.4	0.2	<0.05	5	<0.5	<0.2
1541186	Rock	0.034	25	9	0.53	109	0.122	<20	0.92	0.053	0.62	0.8	<0.01	4.0	0.1	<0.05	4	<0.5	<0.2
1541187	Rock	0.032	29	10	0.45	137	0.133	<20	0.90	0.050	0.60	0.9	<0.01	4.3	0.2	<0.05	4	<0.5	<0.2
1541188	Rock	0.037	28	9	0.44	182	0.131	<20	0.95	0.053	0.60	0.8	<0.01	4.7	0.1	<0.05	5	<0.5	<0.2
1541189	Rock	0.025	27	10	0.37	103	0.098	<20	0.74	0.053	0.48	1.1	<0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
1541190	Rock	0.038	30	8	0.82	134	0.108	<20	1.03	0.038	0.59	0.7	<0.01	5.9	0.1	<0.05	5	<0.5	<0.2
1541191	Rock	0.054	35	8	0.81	125	0.109	<20	1.15	0.055	0.62	0.3	<0.01	7.1	0.2	<0.05	6	<0.5	<0.2
1541192	Rock	0.038	32	10	0.66	212	0.099	<20	0.97	0.049	0.53	0.5	<0.01	5.4	0.2	<0.05	5	<0.5	<0.2
1541193	Rock	0.038	31	9	0.38	102	0.104	<20	0.85	0.049	0.51	0.4	<0.01	4.9	0.2	<0.05	4	<0.5	<0.2
1541194	Rock	0.034	34	8	0.23	172	0.063	<20	0.70	0.019	0.34	0.5	<0.01	4.1	0.1	<0.05	4	<0.5	<0.2
1541195	Rock	0.027	33	7	0.13	146	0.013	<20	0.55	0.007	0.18	0.4	0.02	3.1	0.1	<0.05	2	<0.5	<0.2
1541196	Rock	0.035	32	9	0.19	139	0.020	<20	0.70	0.011	0.23	0.5	<0.01	3.9	<0.1	<0.05	3	<0.5	<0.2
1541197	Rock	0.042	30	9	0.33	62	0.014	<20	0.74	0.023	0.20	0.3	<0.01	3.4	<0.1	<0.05	3	<0.5	<0.2
1541198	Rock	0.039	29	8	0.47	64	0.065	<20	0.97	0.041	0.38	0.4	<0.01	3.7	0.1	<0.05	5	<0.5	<0.2
1541199	Rock	0.041	30	8	0.63	113	0.116	<20	1.10	0.042	0.59	0.4	<0.01	4.3	0.2	<0.05	5	<0.5	<0.2
1541200	Rock	0.022	3	3	10.04	21	0.008	<20	0.17	0.003	0.05	0.2	<0.01	1.2	<0.1	<0.05	<1	<0.5	<0.2
1541201	Rock	0.034	28	7	0.56	100	0.105	<20	1.02	0.027	0.52	0.4	<0.01	4.6	0.1	<0.05	5	<0.5	<0.2



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Project: LOO
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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1541202	Rock	4.96	<0.005	1.7	2.7	3.8	38	<0.1	1.9	4.8	619	1.95	0.6	0.8	9.1	74	<0.1	<0.1	<0.1	23	2.02
1541203	Rock	4.61	<0.005	15.5	5.5	5.5	38	<0.1	2.1	4.4	540	1.70	<0.5	<0.5	12.0	55	0.1	<0.1	0.3	20	1.47
1541204	Rock	3.95	<0.005	33.7	6.4	6.3	45	<0.1	1.8	4.7	520	1.81	<0.5	1.1	12.6	59	0.1	<0.1	0.3	21	1.21
1541205	Rock	3.63	<0.005	45.1	10.3	9.7	41	<0.1	1.8	5.1	542	1.92	<0.5	1.0	10.4	89	0.2	<0.1	0.6	24	1.81
1541206	Rock	3.90	<0.005	36.2	14.4	9.5	37	0.1	1.9	7.7	548	1.91	0.5	0.8	11.0	91	0.1	<0.1	0.6	24	2.00



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CERTIFICATE OF ANALYSIS

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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
1541202	Rock	0.034	29	8	0.49	136	0.091	<20	0.95	0.041	0.45	0.3	<0.01	4.4	0.1	<0.05	5	<0.5	<0.2
1541203	Rock	0.031	28	7	0.41	108	0.087	<20	0.80	0.043	0.41	0.7	<0.01	3.5	0.1	<0.05	5	<0.5	<0.2
1541204	Rock	0.032	29	8	0.38	77	0.081	<20	0.82	0.045	0.40	0.8	<0.01	3.5	0.1	<0.05	4	<0.5	<0.2
1541205	Rock	0.040	28	8	0.37	568	0.053	<20	0.70	0.026	0.32	0.6	<0.01	3.6	0.1	<0.05	4	<0.5	<0.2
1541206	Rock	0.037	28	8	0.33	463	0.055	<20	0.76	0.019	0.33	0.5	<0.01	4.3	0.1	0.06	4	<0.5	<0.2



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QUALITY CONTROL REPORT

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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
1541120	Rock	0.17	0.007	0.5	7.6	5.2	21	0.1	1.8	0.6	123	0.22	3.3	6.0	0.7	270	0.3	1.4	<0.1	15	19.97
REP 1541120	QC	0.007																			
REP 1541121	QC	0.089																			
1541135	Rock	3.00	<0.005	1.1	4.7	2.7	28	<0.1	1.6	2.7	338	1.33	<0.5	0.6	11.3	38	<0.1	<0.1	<0.1	9	0.98
REP 1541135	QC	1.1 4.3 2.5 27 <0.1 1.7 2.9 338 1.40 <0.5 1.0 10.8 35 <0.1 <0.1 <0.1 9 0.93																			
1541170	Rock	4.40	0.008	1.9	5.4	2.8	22	<0.1	2.0	3.5	399	1.23	<0.5	5.5	14.5	38	<0.1	<0.1	<0.1	11	1.16
REP 1541170	QC	1.8 5.5 2.6 20 <0.1 1.8 3.1 388 1.20 <0.5 5.4 14.2 37 <0.1 <0.1 <0.1 10 1.14																			
1541192	Rock	4.08	<0.005	2.2	3.3	3.6	55	<0.1	2.6	5.2	709	2.21	<0.5	1.7	10.6	85	<0.1	<0.1	<0.1	27	2.22
REP 1541192	QC	<0.005																			
1541193	Rock	4.20	<0.005	2.2	2.7	3.8	41	<0.1	1.8	4.3	660	1.98	<0.5	1.9	10.2	61	<0.1	<0.1	<0.1	23	1.79
REP 1541193	QC	<0.005																			
1541199	Rock	4.09	<0.005	3.3	4.6	3.1	40	<0.1	2.1	5.9	632	2.16	<0.5	1.2	10.0	58	<0.1	<0.1	<0.1	30	1.37
REP 1541199	QC	3.4 4.1 3.2 42 <0.1 1.9 5.5 602 2.17 <0.5 0.6 9.8 55 <0.1 <0.1 <0.1 30 1.37																			
Core Reject Duplicates																					
1541121	Rock	3.08	0.088	1.2	4.0	3.3	15	<0.1	1.7	2.1	311	0.97	<0.5	72.0	9.7	30	<0.1	0.1	<0.1	5	1.34
DUP 1541121	QC	0.097 1.3 3.9 3.8 16 <0.1 1.5 2.1 278 0.89 <0.5 80.4 10.4 32 <0.1 0.1 <0.1 4 1.38																			
1541155	Rock	3.84	0.012	1.5	3.3	2.1	17	<0.1	1.5	1.8	282	1.03	<0.5	15.4	16.2	15	<0.1	<0.1	<0.1	7	0.47
DUP 1541155	QC	0.017 1.8 3.8 2.1 17 <0.1 1.8 1.9 289 0.98 <0.5 16.4 16.4 14 <0.1 <0.1 <0.1 7 0.47																			
1541189	Rock	3.69	<0.005	1.8	1.9	1.8	29	<0.1	2.3	3.7	447	1.70	<0.5	1.2	10.3	37	<0.1	<0.1	<0.1	19	0.75
DUP 1541189	QC	<0.005 1.8 2.1 2.0 31 <0.1 1.7 4.1 447 1.72 <0.5 2.3 11.8 40 <0.1 <0.1 <0.1 19 0.75																			
Reference Materials																					
STD DS10	Standard	12.9 160.5 154.2 366 1.9 76.1 14.3 924 2.79 42.5 58.1 7.3 68 2.5 7.2 12.6 42 1.07																			
STD DS10	Standard	14.2 150.1 143.8 354 1.8 71.9 14.1 855 2.77 44.3 84.5 7.9 68 2.5 8.1 12.6 43 1.08																			
STD DS10	Standard	15.6 156.1 146.1 387 1.9 77.1 14.1 928 2.77 48.9 58.6 7.8 70 2.6 7.5 12.8 42 1.06																			
STD DS10	Standard	14.4 149.0 151.6 376 1.8 75.5 13.1 934 2.76 49.5 79.9 8.1 68 2.7 9.0 14.0 42 1.09																			
STD DS11	Standard	14.4 147.2 143.4 354 1.6 76.5 13.9 1034 3.08 46.3 57.8 8.0 70 2.4 9.2 13.9 46 1.01																			
STD OREAS45EA	Standard	1.5 711.9 14.1 30 0.3 393.8 54.4 437 23.99 10.4 52.2 9.9 4 <0.1 0.4 0.2 331 0.04																			
STD OREAS45EA	Standard	1.6 715.4 15.0 34 0.3 403.3 53.4 425 24.06 12.3 50.6 10.7 4 <0.1 0.4 0.2 337 0.04																			



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QUALITY CONTROL REPORT

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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																			
1541120	Rock	0.017	3	3	10.96	19	0.003	<20	0.10	0.002	0.02	0.2	0.02	0.6	<0.1	<0.05	<1	<0.5	<0.2
REP 1541120	QC																		
REP 1541121	QC																		
1541135	Rock	0.025	34	5	0.20	67	0.043	<20	0.63	0.017	0.26	0.7	<0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
REP 1541135	QC	0.026	32	5	0.20	68	0.043	37	0.65	0.024	0.27	0.5	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
1541170	Rock	0.025	29	6	0.17	49	0.043	<20	0.50	0.033	0.28	0.7	<0.01	2.3	0.1	<0.05	2	<0.5	<0.2
REP 1541170	QC	0.022	30	6	0.18	46	0.041	<20	0.49	0.032	0.27	0.6	0.01	2.2	0.1	<0.05	2	<0.5	<0.2
1541192	Rock	0.038	32	10	0.66	212	0.099	<20	0.97	0.049	0.53	0.5	<0.01	5.4	0.2	<0.05	5	<0.5	<0.2
REP 1541192	QC																		
1541193	Rock	0.038	31	9	0.38	102	0.104	<20	0.85	0.049	0.51	0.4	<0.01	4.9	0.2	<0.05	4	<0.5	<0.2
REP 1541193	QC																		
1541199	Rock	0.041	30	8	0.63	113	0.116	<20	1.10	0.042	0.59	0.4	<0.01	4.3	0.2	<0.05	5	<0.5	<0.2
REP 1541199	QC	0.041	27	8	0.63	116	0.112	<20	1.11	0.043	0.59	0.4	<0.01	4.5	0.2	<0.05	5	<0.5	<0.2
Core Reject Duplicates																			
1541121	Rock	0.025	28	4	0.06	150	0.003	<20	0.35	0.023	0.14	0.4	<0.01	1.6	<0.1	<0.05	1	<0.5	<0.2
DUP 1541121	QC	0.022	25	4	0.05	138	0.003	<20	0.26	0.015	0.11	0.5	<0.01	1.6	<0.1	<0.05	<1	<0.5	<0.2
1541155	Rock	0.011	29	5	0.11	54	0.030	<20	0.40	0.048	0.20	1.8	<0.01	1.9	<0.1	<0.05	2	<0.5	<0.2
DUP 1541155	QC	0.011	30	6	0.12	52	0.029	<20	0.37	0.040	0.18	1.8	<0.01	1.8	<0.1	<0.05	2	<0.5	<0.2
1541189	Rock	0.025	27	10	0.37	103	0.098	<20	0.74	0.053	0.48	1.1	<0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
DUP 1541189	QC	0.027	30	10	0.37	116	0.114	<20	0.77	0.058	0.49	1.1	<0.01	4.2	0.1	<0.05	4	<0.5	<0.2
Reference Materials																			
STD DS10	Standard	0.081	18	59	0.78	434	0.079	<20	1.03	0.068	0.34	3.0	0.33	2.7	5.3	0.28	4	1.7	4.7
STD DS10	Standard	0.075	20	57	0.79	414	0.092	<20	1.06	0.071	0.34	3.4	0.26	3.3	5.2	0.28	4	1.9	5.0
STD DS10	Standard	0.079	19	55	0.78	414	0.085	<20	1.04	0.067	0.34	3.0	0.31	3.0	5.2	0.27	4	1.6	4.9
STD DS10	Standard	0.071	18	56	0.77	433	0.082	<20	1.02	0.067	0.33	3.3	0.30	3.2	5.5	0.28	4	2.0	5.2
STD DS11	Standard	0.062	17	57	0.82	419	0.091	<20	1.10	0.070	0.39	3.6	0.28	3.5	4.7	0.26	5	1.8	4.8
STD OREAS45EA	Standard	0.031	8	953	0.09	164	0.100	<20	3.23	0.020	0.05	<0.1	0.01	74.1	<0.1	<0.05	12	1.4	<0.2
STD OREAS45EA	Standard	0.034	8	881	0.10	153	0.111	<20	3.28	0.021	0.05	<0.1	0.01	87.5	<0.1	<0.05	14	0.6	<0.2



Bureau Veritas Commodities Canada Ltd.
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PHONE (604) 253-3158

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Project: LOO
Report Date: August 03, 2017

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Part: 1 of 2

QUALITY CONTROL REPORT

WHI17000267.1

		WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
STD OREAS45EA	Standard			1.7	715.8	16.7	35	0.3	403.1	59.9	422	24.26	13.0	58.8	12.7	4	<0.1	0.3	0.3	336	0.03
STD OREAS45EA	Standard			1.7	679.3	14.1	30	0.3	385.1	49.5	404	21.13	11.1	47.8	10.3	4	<0.1	0.4	0.3	316	0.03
STD OXC145	Standard		0.208																		
STD OXC145	Standard		0.213																		
STD OXH122	Standard		1.258																		
STD OXH122	Standard		1.239																		
STD OXN117	Standard		7.866																		
STD OXN117	Standard		7.676																		
STD OXN117 Expected			7.679																		
STD OXC145 Expected			0.212																		
STD OXH122 Expected			1.247																		
STD DS10 Expected				13.6	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625
STD OREAS45EA Expected				1.6	709	14.3	31.4	0.26	381	52	400	23.51	10.3	53	10.7	3.5	0.03	0.32	0.26	303	0.036
STD DS11 Expected				13.9	156	138	345	1.71	81.9	14.2	1055	3.2082	42.8	79	7.65	67.3	2.37	7.2	12.2	50	1.063
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<0.1	<1	<0.1	0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
Prep Wash																					
ROCK-WHI	Prep Blank		<0.005	0.9	2.8	1.4	29	<0.1	1.2	3.5	505	1.70	0.6	<0.5	2.2	16	<0.1	<0.1	<0.1	20	0.50
ROCK-WHI	Prep Blank		<0.005	0.7	2.8	1.0	30	<0.1	2.8	3.7	529	1.68	0.7	<0.5	2.1	15	<0.1	<0.1	<0.1	20	0.55



Bureau Veritas Commodities Canada Ltd.
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Project: LOO
Report Date: August 03, 2017

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QUALITY CONTROL REPORT

WHI17000267.1

		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
STD OREAS45EA	Standard	0.034	9	915	0.10	165	0.106	<20	3.27	0.019	0.05	<0.1	0.01	81.2	<0.1	<0.05	14	1.3	<0.2	
STD OREAS45EA	Standard	0.024	7	855	0.09	153	0.102	<20	3.23	0.020	0.05	<0.1	0.01	84.9	<0.1	<0.05	12	1.0	<0.2	
STD OXC145	Standard																			
STD OXC145	Standard																			
STD OXH122	Standard																			
STD OXH122	Standard																			
STD OXN117	Standard																			
STD OXN117	Standard																			
STD OXN117 Expected																				
STD OXC145 Expected																				
STD OXH122 Expected																				
STD DS10 Expected		0.0765	17.5	54.6	0.775	412	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3	2.3	5.01	
STD OREAS45EA Expected		0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053			78	0.072	0.036	12.4	0.78	0.07	
STD DS11 Expected		0.0701	18.6	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	0.3	3.1	4.9	0.2835	4.7	1.9	4.56	
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
Prep Wash																				
ROCK-WHI	Prep Blank	0.039	5	5	0.45	46	0.070	<20	0.82	0.084	0.08	<0.1	<0.01	2.2	<0.1	<0.05	3	<0.5	<0.2	
ROCK-WHI	Prep Blank	0.043	4	9	0.47	45	0.064	<20	0.85	0.078	0.08	<0.1	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2	



BUREAU VERITAS MINERAL LABORATORIES
Canada

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Submitted By: Jodie Gibson
Receiving Lab: Canada-Whitehorse
Received: July 10, 2017
Report Date: August 01, 2017
Page: 1 of 5

CERTIFICATE OF ANALYSIS

WHI17000268.1

CLIENT JOB INFORMATION

Project: LOO
Shipment ID: LOO-20170707-001-RAB
P.O. Number
Number of Samples: 116

SAMPLE DISPOSAL

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

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

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

CC: Isaac Fage
Shawn Ryan
Greg Dawson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	113	Crush, split and pulverize 250 g rock to 200 mesh			WHI
SLBHP	3	Sort, label and box pulps			WHI
FA430	116	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	116	Environmental disposal charge-Fire assay lead waste			VAN
AQ200	116	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	116	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



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



CERTIFICATE OF ANALYSIS

WHI17000268.1

Method Analyte Unit MDL	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
1540996	Rock	2.41	<0.005	1.0	7.4	3.4	31	<0.1	1.4	2.2	381	1.34	<0.5	0.6	10.0	31	<0.1	<0.1	<0.1	11	0.89
1540997	Rock	2.64	<0.005	1.7	11.3	2.5	41	<0.1	1.7	3.8	527	1.72	<0.5	<0.5	9.8	39	<0.1	<0.1	<0.1	22	1.26
1540998	Rock	2.63	<0.005	0.9	10.6	2.7	36	<0.1	1.4	3.6	487	1.72	<0.5	<0.5	9.5	32	<0.1	<0.1	<0.1	24	1.13
1540999	Rock	2.50	<0.005	1.2	10.2	2.7	39	<0.1	1.5	4.2	419	1.77	<0.5	0.7	9.6	38	<0.1	<0.1	<0.1	27	1.00
1541000	Rock	0.15	<0.005	0.3	6.4	4.6	22	0.1	3.2	0.6	108	0.17	2.0	2.8	0.3	271	0.3	1.4	<0.1	16	18.98
1541001	Rock	3.07	0.008	0.8	10.5	3.3	40	<0.1	1.3	4.4	521	1.85	<0.5	1.1	7.4	52	<0.1	<0.1	<0.1	27	1.55
1541002	Rock	2.82	<0.005	1.2	6.9	3.4	42	<0.1	1.2	4.7	535	1.87	<0.5	<0.5	10.1	69	<0.1	<0.1	<0.1	25	1.86
1541003	Rock	2.86	<0.005	1.2	7.8	3.3	38	<0.1	1.4	4.3	461	1.73	<0.5	1.1	10.3	40	<0.1	<0.1	<0.1	25	1.56
1541004	Rock	3.44	<0.005	5.2	15.5	3.2	61	<0.1	1.4	5.8	619	2.32	<0.5	<0.5	8.9	26	<0.1	<0.1	<0.1	35	0.65
1541005	Rock	2.73	<0.005	1.5	10.3	2.2	48	<0.1	1.6	4.1	478	1.86	<0.5	1.1	9.9	28	0.2	<0.1	0.1	34	0.54
1541006	Rock	1.93	<0.005	1.5	14.4	2.1	44	<0.1	1.9	4.2	498	1.95	<0.5	<0.5	11.3	26	<0.1	<0.1	<0.1	28	0.59
1541007	Rock	3.08	<0.005	0.9	6.4	2.7	46	<0.1	1.5	4.3	516	1.91	<0.5	<0.5	9.6	25	<0.1	<0.1	<0.1	27	0.80
1541008	Rock	3.50	<0.005	1.0	8.6	2.6	47	<0.1	3.2	4.6	487	1.96	<0.5	<0.5	8.6	32	<0.1	<0.1	<0.1	28	0.71
1541009	Rock	3.54	<0.005	0.8	8.5	3.9	44	<0.1	1.4	4.8	537	1.97	<0.5	<0.5	10.8	46	<0.1	<0.1	<0.1	30	0.97
1541010	Rock	3.65	0.006	1.2	7.2	2.9	48	<0.1	1.5	4.7	574	2.07	<0.5	<0.5	9.1	34	<0.1	<0.1	<0.1	30	0.88
1541011	Rock	2.72	0.008	1.0	8.8	5.4	36	<0.1	3.8	2.6	407	1.32	<0.5	5.6	10.8	13	<0.1	<0.1	<0.1	12	0.41
1541012	Rock	3.75	<0.005	1.5	4.5	4.6	33	<0.1	1.8	2.5	476	1.39	<0.5	1.5	11.6	21	<0.1	<0.1	<0.1	11	0.68
1541013	Rock	5.48	<0.005	1.4	4.2	4.7	39	<0.1	1.2	2.7	619	1.50	<0.5	1.6	11.4	38	<0.1	<0.1	<0.1	12	1.16
1541014	Rock	5.88	<0.005	1.3	5.8	3.3	60	<0.1	1.6	4.2	462	1.75	<0.5	2.1	9.4	29	<0.1	<0.1	<0.1	18	0.95
1541015	Rock	3.12	<0.005	1.4	5.4	5.8	54	<0.1	1.7	5.3	626	2.28	<0.5	1.7	8.7	36	<0.1	<0.1	<0.1	24	3.07
1541016	Rock	3.23	<0.005	1.0	3.4	4.2	42	<0.1	1.3	4.6	579	1.98	<0.5	1.8	9.8	42	<0.1	<0.1	<0.1	27	2.19
1541017	Rock	3.37	<0.005	0.3	3.2	2.3	33	<0.1	0.9	3.7	398	1.64	<0.5	<0.5	10.4	22	<0.1	<0.1	<0.1	24	0.86
1541018	Rock	3.70	<0.005	14.8	6.5	6.5	36	<0.1	0.9	3.7	577	1.75	<0.5	<0.5	9.7	61	<0.1	<0.1	0.1	20	3.00
1541019	Rock	3.51	<0.005	6.9	12.6	4.5	33	<0.1	1.0	4.2	393	1.50	<0.5	<0.5	10.1	36	<0.1	<0.1	0.4	23	1.91
1541020	Rock Pulp	0.11	5.262	8.1	191.0	22.8	74	0.9	14.3	10.8	552	4.08	10.6	5641.1	2.9	76	0.1	4.2	0.5	103	0.89
1541021	Rock	3.63	0.006	0.9	6.5	3.8	42	<0.1	1.3	5.0	515	1.85	<0.5	2.3	11.0	53	<0.1	<0.1	<0.1	26	1.49
1541022	Rock	3.74	<0.005	1.4	10.3	4.5	39	<0.1	1.2	4.5	568	1.95	<0.5	0.9	9.6	43	<0.1	<0.1	<0.1	26	2.08
1541023	Rock	3.52	<0.005	0.9	7.4	5.6	37	<0.1	1.6	4.4	540	1.82	<0.5	2.8	8.1	76	<0.1	<0.1	<0.1	28	2.61
1541024	Rock	3.24	<0.005	1.3	6.7	4.4	46	<0.1	1.2	4.5	603	2.00	<0.5	1.2	9.1	64	<0.1	<0.1	<0.1	25	2.80
1541025	Rock	2.72	<0.005	0.9	3.7	3.8	39	<0.1	1.0	3.8	489	1.70	<0.5	0.8	10.0	36	<0.1	<0.1	<0.1	24	1.15



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Project: LOO
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CERTIFICATE OF ANALYSIS

WHI17000268.1

Method Analyte Unit MDL	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm		
1540996	Rock	0.025	27	4	0.21	74	0.050	<20	0.56	0.041	0.31	0.8	<0.01	2.6	0.1	<0.05	3	<0.5	<0.2	
1540997	Rock	0.036	26	4	0.41	186	0.080	<20	0.82	0.035	0.46	0.6	<0.01	3.6	0.1	<0.05	4	<0.5	<0.2	
1540998	Rock	0.028	27	3	0.34	144	0.090	<20	0.81	0.036	0.48	0.6	<0.01	3.7	0.2	<0.05	4	<0.5	<0.2	
1540999	Rock	0.032	27	4	0.30	109	0.083	<20	0.79	0.036	0.46	0.4	<0.01	3.6	0.2	<0.05	4	<0.5	<0.2	
1541000	Rock	0.012	2	3	11.06	16	0.002	<20	0.10	0.002	0.02	0.2	0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2	
1541001	Rock	0.035	21	5	0.32	137	0.074	<20	0.76	0.036	0.44	0.2	<0.01	3.9	0.1	<0.05	3	<0.5	<0.2	
1541002	Rock	0.031	26	4	0.53	253	0.088	<20	0.85	0.022	0.48	0.3	<0.01	3.9	0.2	<0.05	4	<0.5	<0.2	
1541003	Rock	0.029	24	3	0.31	107	0.089	<20	0.87	0.029	0.50	0.4	<0.01	4.0	0.2	<0.05	4	<0.5	<0.2	
1541004	Rock	0.042	23	4	0.54	199	0.146	<20	1.14	0.041	0.78	0.5	<0.01	5.0	0.2	<0.05	5	<0.5	<0.2	
1541005	Rock	0.028	25	4	0.38	151	0.113	<20	1.03	0.066	0.63	0.8	<0.01	3.6	0.2	<0.05	5	<0.5	<0.2	
1541006	Rock	0.033	24	6	0.44	198	0.114	<20	0.96	0.063	0.62	1.2	<0.01	3.5	0.2	<0.05	5	<0.5	<0.2	
1541007	Rock	0.030	24	5	0.43	162	0.091	<20	0.89	0.059	0.52	0.6	<0.01	4.2	<0.1	<0.05	4	<0.5	<0.2	
1541008	Rock	0.031	22	5	0.42	113	0.090	<20	0.93	0.054	0.53	0.5	<0.01	3.9	0.1	<0.05	4	<0.5	<0.2	
1541009	Rock	0.035	28	4	0.42	139	0.111	<20	0.99	0.053	0.60	0.5	<0.01	4.5	0.2	<0.05	4	<0.5	<0.2	
1541010	Rock	0.034	24	5	0.43	136	0.118	<20	0.95	0.057	0.62	0.5	<0.01	4.7	0.1	<0.05	4	<0.5	<0.2	
1541011	Rock	0.024	30	4	0.16	89	0.040	<20	0.78	0.027	0.27	0.7	<0.01	3.2	<0.1	<0.05	3	<0.5	<0.2	
1541012	Rock	0.024	29	3	0.15	89	0.044	<20	0.65	0.023	0.28	0.6	<0.01	3.2	<0.1	<0.05	3	<0.5	<0.2	
1541013	Rock	0.022	30	2	0.18	97	0.038	<20	0.75	0.019	0.29	0.6	<0.01	3.1	0.1	<0.05	3	<0.5	<0.2	
1541014	Rock	0.032	25	2	0.19	105	0.033	<20	0.83	0.020	0.28	0.3	<0.01	3.7	<0.1	<0.05	3	<0.5	<0.2	
1541015	Rock	0.033	25	4	0.24	128	0.052	<20	0.83	0.010	0.36	0.2	<0.01	4.5	<0.1	<0.05	4	<0.5	<0.2	
1541016	Rock	0.032	25	2	0.34	128	0.082	<20	0.93	0.020	0.47	0.3	<0.01	4.8	0.1	<0.05	4	<0.5	<0.2	
1541017	Rock	0.032	24	2	0.36	95	0.099	<20	0.96	0.023	0.55	0.5	<0.01	3.6	0.2	<0.05	4	<0.5	<0.2	
1541018	Rock	0.028	26	2	0.18	240	0.044	<20	0.57	0.016	0.28	0.4	<0.01	4.0	0.1	<0.05	3	<0.5	<0.2	
1541019	Rock	0.026	24	2	0.17	175	0.034	<20	0.63	0.015	0.27	0.3	<0.01	3.4	<0.1	<0.05	3	<0.5	<0.2	
1541020	Rock Pulp	0.058	7	18	0.85	134	0.138	<20	1.70	0.179	0.23	5.0	0.16	3.3	<0.1	<0.05	5	<0.5	<0.2	
1541021	Rock	0.036	28	3	0.29	176	0.072	<20	0.91	0.025	0.42	0.3	<0.01	4.1	0.1	<0.05	4	<0.5	<0.2	
1541022	Rock	0.032	25	2	0.27	127	0.071	<20	0.79	0.022	0.40	0.4	<0.01	4.2	0.1	<0.05	3	<0.5	<0.2	
1541023	Rock	0.040	23	4	0.23	114	0.049	<20	0.74	0.018	0.34	0.3	<0.01	5.1	<0.1	<0.05	3	<0.5	<0.2	
1541024	Rock	0.031	23	2	0.29	101	0.048	<20	0.69	0.020	0.34	0.3	<0.01	3.9	<0.1	<0.05	3	<0.5	<0.2	
1541025	Rock	0.031	25	3	0.31	104	0.084	<20	0.82	0.021	0.47	0.5	<0.01	4.1	0.1	<0.05	4	<0.5	<0.2	



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Project: LOO
Report Date: August 01, 2017

CERTIFICATE OF ANALYSIS

WHI17000268.1

	Method Analyte Unit MDL	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
1541026	Rock	3.10	<0.005	0.9	8.7	4.8	37	<0.1	1.1	3.6	623	1.75	<0.5	0.9	8.2	90	<0.1	<0.1	<0.1	22	2.41
1541027	Rock	3.43	<0.005	1.1	5.9	4.8	36	<0.1	1.1	4.5	568	1.75	<0.5	1.3	8.7	101	<0.1	<0.1	<0.1	25	2.59
1541028	Rock	3.71	<0.005	1.6	10.7	5.5	41	<0.1	1.3	4.4	497	1.78	<0.5	<0.5	9.7	103	<0.1	<0.1	<0.1	16	3.13
1541029	Rock	3.84	<0.005	1.1	7.9	4.1	42	<0.1	2.2	5.3	518	2.04	<0.5	3.2	10.3	74	<0.1	0.2	<0.1	32	1.62
1541030	Rock	3.28	<0.005	0.7	2.9	2.7	35	<0.1	1.0	3.9	531	1.73	<0.5	1.5	9.7	66	<0.1	0.1	<0.1	23	1.49
1541031	Rock	3.62	<0.005	0.9	11.5	3.3	42	<0.1	2.3	6.0	562	2.09	<0.5	<0.5	9.3	70	<0.1	<0.1	<0.1	38	1.48
1541032	Rock	3.83	<0.005	0.6	5.9	3.2	41	<0.1	1.3	4.3	552	1.80	<0.5	<0.5	9.7	69	<0.1	<0.1	<0.1	27	1.52
1541033	Rock	3.87	<0.005	0.5	10.3	3.0	53	<0.1	1.4	3.8	405	1.72	<0.5	0.6	9.2	56	<0.1	0.1	<0.1	34	1.00
1541034	Rock	3.76	<0.005	0.7	6.0	2.5	39	<0.1	1.1	3.7	463	1.65	<0.5	0.5	7.8	70	<0.1	<0.1	<0.1	22	1.29
1541035	Rock	4.09	<0.005	0.9	8.9	1.9	47	<0.1	2.6	5.4	531	2.11	<0.5	<0.5	9.3	62	<0.1	<0.1	<0.1	34	1.04
1541036	Rock	3.29	<0.005	0.9	4.6	1.5	39	<0.1	1.1	4.1	482	1.84	<0.5	1.1	9.7	48	<0.1	<0.1	<0.1	27	0.79
1541037	Rock	3.48	<0.005	0.6	4.1	1.6	36	<0.1	1.2	4.2	469	1.82	<0.5	<0.5	9.7	44	<0.1	<0.1	<0.1	27	0.75
1541038	Rock	3.88	<0.005	0.8	4.8	1.7	35	<0.1	1.3	3.7	443	1.68	<0.5	<0.5	10.1	48	<0.1	<0.1	<0.1	26	0.77
1541039	Rock	3.27	<0.005	0.8	17.2	3.1	39	<0.1	2.6	7.0	623	2.24	<0.5	<0.5	9.3	129	<0.1	<0.1	<0.1	46	2.12
1541040	Rock	0.15	<0.005	0.4	3.6	4.1	27	0.1	2.2	0.9	141	0.29	2.4	1.7	0.9	253	0.1	1.5	<0.1	17	17.73
1541041	Rock	3.47	<0.005	0.7	5.2	3.1	35	<0.1	1.0	3.9	488	1.78	<0.5	<0.5	8.8	89	<0.1	<0.1	<0.1	26	1.80
1541042	Rock	3.65	<0.005	0.7	7.0	3.6	43	<0.1	2.6	5.3	592	2.07	<0.5	<0.5	10.0	113	<0.1	<0.1	<0.1	32	2.03
1541043	Rock	3.35	<0.005	0.7	3.5	3.1	30	<0.1	1.4	3.8	478	1.67	<0.5	<0.5	10.0	127	<0.1	<0.1	<0.1	23	2.17
1541044	Rock	3.98	<0.005	0.9	16.3	5.0	48	<0.1	3.7	7.5	633	2.56	<0.5	1.5	8.3	130	<0.1	0.1	<0.1	47	2.25
1541045	Rock	3.83	<0.005	0.6	11.4	5.3	54	<0.1	9.9	10.9	786	2.71	<0.5	<0.5	5.6	159	<0.1	0.1	<0.1	62	3.55
1541046	Rock	4.18	<0.005	0.7	15.9	4.3	46	<0.1	2.2	5.3	594	2.03	<0.5	0.9	9.6	120	<0.1	<0.1	<0.1	33	2.41
1541047	Rock	3.58	<0.005	1.1	10.4	3.5	40	<0.1	1.2	4.3	472	1.78	<0.5	<0.5	9.6	80	<0.1	<0.1	<0.1	23	1.63
1541048	Rock	3.72	<0.005	0.7	14.9	3.0	37	<0.1	1.0	4.1	514	1.84	<0.5	<0.5	11.1	87	<0.1	<0.1	<0.1	26	1.62
1541049	Rock	2.32	<0.005	1.0	11.4	3.3	44	<0.1	1.5	4.7	591	2.06	<0.5	0.8	11.0	83	<0.1	<0.1	<0.1	30	1.46
1541050	Rock	3.97	<0.005	0.7	11.3	3.4	47	<0.1	1.5	4.7	524	1.85	<0.5	<0.5	8.8	76	<0.1	0.3	<0.1	29	1.49
1541051	Rock	3.98	<0.005	0.9	5.9	4.2	35	<0.1	1.3	3.9	536	1.70	<0.5	<0.5	10.7	81	<0.1	<0.1	<0.1	22	1.91
1541052	Rock	3.31	<0.005	0.7	8.3	3.9	41	<0.1	0.9	4.0	499	1.67	<0.5	0.7	9.7	60	<0.1	<0.1	<0.1	19	1.39
1541053	Rock	3.57	<0.005	0.7	9.5	4.6	38	<0.1	1.0	4.0	522	1.70	<0.5	<0.5	9.2	88	<0.1	<0.1	<0.1	22	1.94
1541054	Rock	3.78	<0.005	0.7	7.0	3.3	44	<0.1	2.1	5.8	575	2.21	<0.5	<0.5	8.8	78	<0.1	<0.1	<0.1	35	1.57
1541055	Rock	4.44	<0.005	0.9	6.3	3.2	36	<0.1	1.5	4.5	504	1.86	<0.5	<0.5	8.7	81	<0.1	<0.1	<0.1	27	1.44



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CERTIFICATE OF ANALYSIS

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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
1541026	Rock	0.028	25	2	0.25	101	0.056	<20	0.76	0.017	0.36	0.4	<0.01	3.9	0.1	<0.05	3	<0.5	<0.2
1541027	Rock	0.038	25	2	0.20	213	0.034	<20	0.63	0.022	0.27	0.3	<0.01	4.1	<0.1	<0.05	3	<0.5	<0.2
1541028	Rock	0.031	29	3	0.17	163	0.020	<20	0.51	0.027	0.25	0.2	<0.01	2.8	<0.1	<0.05	2	<0.5	<0.2
1541029	Rock	0.040	27	4	0.45	98	0.076	<20	0.98	0.028	0.45	0.3	<0.01	4.2	0.1	<0.05	5	<0.5	<0.2
1541030	Rock	0.028	26	3	0.36	97	0.089	<20	0.87	0.033	0.48	0.4	<0.01	3.6	0.1	<0.05	4	<0.5	<0.2
1541031	Rock	0.040	25	7	0.56	145	0.110	<20	1.06	0.029	0.63	0.6	<0.01	5.0	0.2	<0.05	5	<0.5	<0.2
1541032	Rock	0.034	26	3	0.42	112	0.101	<20	0.94	0.033	0.54	0.5	<0.01	3.4	0.2	<0.05	4	<0.5	<0.2
1541033	Rock	0.045	25	4	0.45	117	0.085	<20	0.96	0.032	0.52	0.6	<0.01	2.7	0.2	<0.05	5	<0.5	<0.2
1541034	Rock	0.027	23	4	0.36	140	0.078	<20	0.79	0.041	0.42	0.7	<0.01	3.0	0.2	<0.05	4	<0.5	<0.2
1541035	Rock	0.039	28	5	0.55	131	0.120	<20	1.06	0.039	0.67	0.7	<0.01	4.1	0.2	<0.05	5	<0.5	<0.2
1541036	Rock	0.031	26	4	0.41	145	0.123	<20	0.93	0.038	0.62	0.8	<0.01	3.3	0.2	<0.05	4	<0.5	<0.2
1541037	Rock	0.031	27	4	0.41	130	0.114	<20	0.90	0.040	0.62	0.7	<0.01	3.3	0.2	<0.05	4	<0.5	<0.2
1541038	Rock	0.030	26	4	0.37	107	0.102	<20	0.84	0.041	0.55	0.8	<0.01	3.1	0.2	<0.05	4	0.6	<0.2
1541039	Rock	0.041	28	10	0.66	133	0.098	<20	1.14	0.027	0.57	0.5	<0.01	4.8	0.2	<0.05	5	<0.5	<0.2
1541040	Rock	0.016	3	3	10.13	23	0.010	<20	0.18	0.005	0.06	0.3	<0.01	0.6	<0.1	<0.05	<1	<0.5	<0.2
1541041	Rock	0.031	26	5	0.37	51	0.046	<20	0.76	0.026	0.26	0.4	<0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
1541042	Rock	0.034	30	9	0.54	86	0.083	<20	1.03	0.026	0.42	0.5	<0.01	4.0	0.2	<0.05	6	<0.5	<0.2
1541043	Rock	0.027	32	5	0.36	1202	0.077	<20	0.86	0.022	0.39	0.6	<0.01	3.7	0.1	<0.05	5	<0.5	<0.2
1541044	Rock	0.056	23	12	0.75	120	0.106	<20	1.29	0.023	0.61	0.4	<0.01	4.5	0.2	<0.05	6	<0.5	<0.2
1541045	Rock	0.054	19	35	1.08	99	0.092	<20	1.49	0.017	0.52	0.3	<0.01	6.4	0.2	<0.05	8	<0.5	<0.2
1541046	Rock	0.039	26	7	0.49	83	0.092	<20	0.97	0.026	0.48	0.3	<0.01	4.4	0.2	<0.05	5	<0.5	<0.2
1541047	Rock	0.032	25	5	0.37	94	0.079	<20	0.86	0.027	0.41	0.5	<0.01	3.6	0.1	<0.05	5	<0.5	<0.2
1541048	Rock	0.032	29	4	0.38	99	0.098	<20	0.92	0.029	0.49	0.5	<0.01	3.3	0.2	<0.05	5	<0.5	<0.2
1541049	Rock	0.034	27	6	0.44	113	0.123	<20	1.02	0.031	0.61	0.6	<0.01	3.6	0.2	<0.05	5	<0.5	<0.2
1541050	Rock	0.033	23	6	0.43	94	0.104	<20	0.96	0.030	0.53	0.5	<0.01	3.6	0.2	<0.05	5	<0.5	<0.2
1541051	Rock	0.029	30	5	0.38	89	0.084	<20	0.95	0.034	0.44	0.5	<0.01	3.3	0.1	<0.05	4	<0.5	<0.2
1541052	Rock	0.029	25	5	0.36	86	0.084	<20	0.85	0.030	0.41	0.6	<0.01	2.9	0.1	<0.05	4	<0.5	<0.2
1541053	Rock	0.032	27	5	0.37	91	0.078	<20	0.87	0.027	0.40	0.4	<0.01	3.5	0.1	<0.05	4	<0.5	<0.2
1541054	Rock	0.041	27	7	0.56	131	0.120	<20	1.12	0.045	0.61	0.5	<0.01	4.3	0.2	<0.05	5	<0.5	<0.2
1541055	Rock	0.033	27	6	0.42	99	0.090	<20	0.89	0.040	0.43	0.4	<0.01	4.0	0.1	<0.05	5	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1541056	Rock	3.09	<0.005	1.0	13.3	3.7	49	<0.1	2.5	6.8	611	2.46	<0.5	0.9	8.6	82	<0.1	<0.1	<0.1	41	1.59
1541057	Rock	4.06	<0.005	0.9	10.1	4.6	47	<0.1	2.9	7.8	765	2.45	<0.5	<0.5	7.8	133	<0.1	<0.1	<0.1	43	3.28
1541058	Rock	3.29	<0.005	0.8	13.4	3.9	47	<0.1	2.0	5.6	591	2.10	<0.5	<0.5	9.0	89	<0.1	<0.1	<0.1	30	2.01
1541059	Rock	3.29	<0.005	1.0	13.7	4.0	55	<0.1	3.4	8.6	714	2.57	<0.5	<0.5	8.0	89	<0.1	0.1	<0.1	39	1.76
1541060	Rock Pulp	0.08	0.516	6.5	285.9	16.0	52	0.6	112.2	14.6	466	2.83	173.1	671.4	3.6	80	0.2	1.8	0.1	66	1.74
1541061	Rock	2.81	0.005	1.1	20.4	3.7	51	<0.1	1.9	5.8	576	2.06	<0.5	<0.5	9.5	71	<0.1	<0.1	<0.1	25	1.32
1541062	Rock	3.70	<0.005	1.0	10.7	3.2	41	<0.1	1.2	5.0	500	1.80	0.5	<0.5	9.4	63	<0.1	<0.1	<0.1	21	1.31
1541063	Rock	3.12	<0.005	1.3	6.2	2.7	40	<0.1	1.4	3.6	410	1.60	<0.5	0.9	11.8	46	<0.1	<0.1	<0.1	17	1.02
1541064	Rock	2.67	<0.005	1.1	5.8	7.0	23	<0.1	1.0	2.2	319	1.05	<0.5	1.5	15.8	44	<0.1	<0.1	<0.1	9	1.14
1541065	Rock	4.86	<0.005	1.0	16.1	3.6	26	<0.1	1.0	2.5	376	1.20	<0.5	<0.5	15.3	51	<0.1	<0.1	<0.1	11	1.33
1541066	Rock	4.30	<0.005	1.2	12.4	4.4	35	<0.1	1.3	3.7	440	1.52	<0.5	<0.5	12.6	51	<0.1	<0.1	0.1	17	1.21
1541067	Rock	4.02	<0.005	1.1	9.8	4.5	39	<0.1	1.4	3.9	486	1.71	<0.5	1.3	11.5	61	<0.1	<0.1	<0.1	19	1.40
1541068	Rock	4.03	<0.005	0.9	9.8	4.0	44	<0.1	1.4	4.3	544	1.78	<0.5	<0.5	11.1	62	<0.1	<0.1	<0.1	20	1.35
1541069	Rock	4.84	<0.005	1.1	6.4	3.7	44	<0.1	1.4	4.5	502	1.77	<0.5	<0.5	9.8	65	<0.1	0.1	<0.1	20	1.22
1541070	Rock	3.86	<0.005	1.4	6.4	2.8	43	<0.1	1.5	4.4	498	1.82	0.5	<0.5	10.0	51	<0.1	0.2	<0.1	21	1.00
1541071	Rock	3.86	<0.005	1.4	8.8	3.3	48	<0.1	1.6	4.0	449	1.64	0.6	0.8	10.0	52	<0.1	0.2	<0.1	17	1.14
1541072	Rock	2.97	<0.005	1.2	5.8	3.5	48	<0.1	1.7	4.2	504	1.73	<0.5	<0.5	10.5	69	<0.1	0.1	<0.1	16	1.21
1541073	Rock	4.23	0.006	1.2	4.3	2.6	41	<0.1	1.6	3.6	434	1.56	0.7	1.6	12.0	43	<0.1	0.1	<0.1	13	0.74
1541074	Rock	3.35	0.009	1.4	7.8	3.8	38	<0.1	1.3	4.0	384	1.48	1.5	2.4	13.2	49	<0.1	0.2	<0.1	13	1.02
1541075	Rock	3.56	0.108	1.9	13.4	3.9	42	<0.1	1.5	3.4	427	1.47	1.2	89.8	9.8	57	<0.1	0.2	<0.1	11	1.67
1541076	Rock	3.97	0.074	1.2	11.0	3.5	42	<0.1	1.4	4.1	460	1.57	0.7	78.8	9.6	69	<0.1	0.1	<0.1	13	1.66
1541077	Rock	4.39	0.027	1.1	7.3	2.8	39	<0.1	1.2	3.8	453	1.68	0.6	35.5	10.0	70	<0.1	0.1	<0.1	16	1.07
1541078	Rock	4.14	0.009	1.2	17.2	2.3	53	<0.1	1.0	7.9	664	2.71	<0.5	10.0	8.6	106	<0.1	<0.1	<0.1	57	1.68
1541079	Rock	4.51	0.005	0.8	28.0	3.2	71	<0.1	1.3	16.5	1063	4.58	0.8	1.5	3.7	191	<0.1	0.1	<0.1	138	3.06
1541080	Rock	0.13	<0.005	0.4	8.7	4.7	28	0.1	2.4	0.7	119	0.19	2.6	3.9	0.3	278	0.3	1.4	<0.1	17	18.97
1541081	Rock	3.19	0.006	1.1	10.5	2.9	46	<0.1	3.6	4.8	537	1.93	0.5	3.7	10.9	13	<0.1	0.1	<0.1	22	0.20
1541082	Rock	3.88	<0.005	0.6	15.0	3.7	52	<0.1	2.8	5.4	538	1.92	0.5	5.9	11.4	11	<0.1	0.1	<0.1	19	0.25
1541083	Rock	5.69	<0.005	0.4	6.0	2.6	51	<0.1	2.0	4.8	530	1.88	<0.5	2.6	11.2	16	<0.1	0.1	<0.1	22	0.21
1541084	Rock	4.41	<0.005	0.6	4.0	1.8	42	<0.1	1.6	4.9	508	1.88	0.6	0.9	10.6	20	<0.1	<0.1	<0.1	26	0.22
1541085	Rock	3.46	<0.005	0.7	9.9	2.7	53	<0.1	1.8	5.5	511	2.01	<0.5	<0.5	10.9	23	<0.1	<0.1	<0.1	28	0.28



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Project: LOO
Report Date: August 01, 2017

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CERTIFICATE OF ANALYSIS

WHI17000268.1

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
1541056	Rock	0.047	26	7	0.68	96	0.101	<20	1.20	0.035	0.50	0.5	<0.01	4.7	0.1	<0.05	6	<0.5	<0.2
1541057	Rock	0.061	25	7	0.84	42	0.028	<20	1.28	0.017	0.26	0.3	<0.01	5.0	<0.1	<0.05	5	<0.5	<0.2
1541058	Rock	0.041	26	5	0.57	67	0.039	<20	1.09	0.028	0.32	0.2	<0.01	4.2	<0.1	<0.05	5	<0.5	<0.2
1541059	Rock	0.056	26	7	0.80	71	0.033	<20	1.27	0.023	0.28	0.2	<0.01	5.1	<0.1	<0.05	6	<0.5	<0.2
1541060	Rock Pulp	0.033	9	106	1.45	125	0.102	<20	2.72	0.312	0.21	1.0	0.03	3.1	<0.1	0.11	6	<0.5	<0.2
1541061	Rock	0.037	27	6	0.49	70	0.036	<20	0.97	0.036	0.27	0.3	<0.01	3.6	<0.1	<0.05	5	0.5	<0.2
1541062	Rock	0.032	25	6	0.39	54	0.034	<20	0.81	0.031	0.24	0.2	<0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
1541063	Rock	0.026	29	6	0.31	54	0.042	<20	0.73	0.037	0.25	0.4	<0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
1541064	Rock	0.014	33	5	0.17	41	0.028	<20	0.45	0.033	0.17	0.6	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
1541065	Rock	0.019	34	5	0.19	48	0.037	<20	0.56	0.043	0.22	0.4	<0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
1541066	Rock	0.026	31	6	0.30	53	0.055	<20	0.69	0.039	0.28	0.4	<0.01	2.8	0.1	<0.05	4	<0.5	<0.2
1541067	Rock	0.028	31	6	0.33	77	0.047	<20	0.78	0.045	0.27	0.3	<0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
1541068	Rock	0.033	32	6	0.42	106	0.046	<20	0.81	0.040	0.26	0.3	<0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
1541069	Rock	0.032	28	6	0.42	73	0.034	<20	0.79	0.043	0.21	0.3	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
1541070	Rock	0.032	26	9	0.42	69	0.054	<20	0.79	0.040	0.30	0.7	<0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
1541071	Rock	0.030	30	7	0.37	58	0.027	<20	0.73	0.043	0.21	0.4	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
1541072	Rock	0.035	31	8	0.53	46	0.009	<20	0.91	0.028	0.16	0.4	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
1541073	Rock	0.027	32	7	0.52	32	0.004	<20	0.83	0.046	0.14	0.2	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
1541074	Rock	0.026	31	7	0.35	28	0.004	<20	0.72	0.036	0.16	0.3	0.01	2.2	<0.1	0.09	4	<0.5	<0.2
1541075	Rock	0.025	27	6	0.30	108	0.004	<20	0.74	0.039	0.21	0.1	0.03	2.5	<0.1	0.09	4	<0.5	<0.2
1541076	Rock	0.026	28	7	0.36	85	0.009	<20	0.81	0.035	0.20	<0.1	0.02	2.5	<0.1	0.08	4	<0.5	<0.2
1541077	Rock	0.029	29	7	0.38	91	0.031	<20	0.88	0.045	0.26	0.1	0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
1541078	Rock	0.070	26	6	0.97	609	0.082	<20	1.44	0.039	0.37	0.3	0.01	5.3	<0.1	0.08	7	<0.5	<0.2
1541079	Rock	0.147	12	5	2.06	553	0.113	<20	2.45	0.029	0.44	0.2	0.02	11.6	<0.1	0.17	8	<0.5	<0.2
1541080	Rock	0.015	2	3	12.16	19	0.003	<20	0.13	0.002	0.02	0.2	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
1541081	Rock	0.035	27	4	0.38	131	0.063	<20	1.01	0.052	0.42	0.4	0.01	3.9	0.1	<0.05	5	<0.5	<0.2
1541082	Rock	0.040	42	4	0.41	147	0.016	<20	1.04	0.042	0.23	0.4	<0.01	3.4	<0.1	<0.05	5	<0.5	<0.2
1541083	Rock	0.032	25	3	0.50	84	0.060	<20	0.96	0.054	0.32	0.6	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
1541084	Rock	0.031	24	4	0.55	110	0.114	<20	1.10	0.077	0.53	0.4	<0.01	3.6	0.2	<0.05	5	<0.5	<0.2
1541085	Rock	0.041	29	5	0.52	111	0.088	<20	1.07	0.062	0.46	0.3	<0.01	3.2	0.2	<0.05	5	<0.5	<0.2



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Report Date: August 01, 2017

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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1541086	Rock	3.65	<0.005	1.0	6.2	2.5	49	<0.1	1.7	5.3	562	2.02	<0.5	0.7	10.3	17	<0.1	<0.1	<0.1	26	0.26
1541087	Rock	3.44	<0.005	0.9	6.9	3.1	51	<0.1	2.2	5.7	570	2.02	<0.5	<0.5	11.1	17	<0.1	<0.1	<0.1	28	0.25
1541088	Rock	3.48	<0.005	1.2	13.2	5.5	41	<0.1	2.2	4.9	537	1.79	<0.5	1.2	9.1	17	<0.1	<0.1	0.6	24	0.28
1541089	Rock	3.67	0.006	2.2	10.7	3.3	41	<0.1	3.8	4.5	482	1.78	0.5	3.6	10.1	10	<0.1	0.2	0.3	22	0.18
1541090	Rock	3.82	0.009	2.0	10.5	3.2	43	<0.1	7.2	5.2	537	1.74	<0.5	6.2	9.8	8	<0.1	0.2	<0.1	17	0.16
1541091	Rock	6.18	<0.005	0.8	9.7	2.5	52	<0.1	2.6	5.0	571	1.90	<0.5	3.5	9.4	17	<0.1	<0.1	<0.1	25	0.21
1541092	Rock	6.39	<0.005	0.8	9.3	2.1	48	<0.1	2.4	5.0	532	2.01	<0.5	<0.5	11.3	15	<0.1	<0.1	<0.1	31	0.19
1541093	Rock	6.22	<0.005	0.8	6.8	1.8	40	<0.1	2.3	4.6	470	1.79	<0.5	1.9	10.1	15	<0.1	<0.1	<0.1	23	0.18
1541094	Rock	1.72	<0.005	0.9	4.8	1.9	47	<0.1	2.0	5.0	590	1.94	<0.5	0.5	9.0	16	<0.1	<0.1	<0.1	27	0.20
1541095	Rock	1.45	0.010	2.9	51.4	4.8	37	<0.1	13.5	2.7	339	1.38	0.6	7.9	13.0	10	<0.1	0.1	1.1	11	0.11
1541096	Rock	5.47	0.006	1.3	60.9	5.2	38	0.2	4.6	2.6	386	1.30	<0.5	3.9	10.7	9	0.1	<0.1	1.0	10	0.12
1541097	Rock	5.34	<0.005	1.0	32.1	5.5	56	<0.1	1.9	2.5	383	1.35	<0.5	1.5	11.1	11	0.1	<0.1	0.5	11	0.12
1541098	Rock	5.02	<0.005	1.4	15.4	4.9	43	<0.1	2.4	2.7	432	1.32	<0.5	1.5	11.1	15	0.1	<0.1	0.3	11	0.18
1541099	Rock	5.97	<0.005	0.9	8.6	8.6	56	<0.1	1.7	2.7	388	1.29	<0.5	<0.5	10.8	29	<0.1	<0.1	<0.1	13	0.54
1541100	Rock Pulp	0.08	5.021	8.9	196.9	24.4	75	0.8	14.8	11.2	589	4.29	11.6	4783.2	3.0	72	0.2	4.1	0.5	105	0.94
1541101	Rock	3.76	<0.005	1.1	11.7	3.0	47	<0.1	1.5	3.1	442	1.60	<0.5	2.9	11.6	18	<0.1	<0.1	0.2	17	0.29
1541102	Rock	3.07	6.724	5.4	10.5	5.9	25	3.6	4.5	4.4	340	1.66	1.3	6157.1	11.1	8	<0.1	0.2	4.1	13	0.27
1541103	Rock	4.64	0.069	3.6	9.0	2.1	27	<0.1	2.6	3.2	415	1.32	<0.5	44.7	11.4	16	<0.1	<0.1	<0.1	12	0.59
1541104	Rock	6.55	0.009	1.9	12.4	1.9	49	<0.1	8.4	4.7	489	1.68	<0.5	7.0	9.2	18	<0.1	<0.1	<0.1	19	0.68
1541105	Rock	3.03	0.005	0.9	18.1	2.3	34	<0.1	1.4	3.9	505	1.77	<0.5	7.5	10.7	17	<0.1	<0.1	<0.1	22	0.55
1541106	Rock	3.01	<0.005	0.8	6.6	1.3	46	<0.1	1.5	4.7	604	2.03	<0.5	1.6	10.4	13	<0.1	<0.1	<0.1	25	0.50
1541107	Rock	3.42	<0.005	0.7	6.2	2.2	42	<0.1	1.1	3.8	497	1.61	<0.5	1.3	9.9	16	<0.1	<0.1	<0.1	19	0.51
1541108	Rock	3.60	<0.005	0.6	8.2	2.9	41	<0.1	1.7	4.4	540	1.69	<0.5	5.1	9.4	30	<0.1	<0.1	<0.1	18	1.22
1541109	Rock	3.59	<0.005	0.7	6.5	3.7	38	<0.1	2.8	2.9	483	1.30	<0.5	2.0	11.4	35	<0.1	<0.1	<0.1	11	1.57
1541110	Rock	3.54	0.012	0.7	10.7	3.3	47	<0.1	1.4	2.6	389	1.30	<0.5	7.7	10.1	20	<0.1	<0.1	<0.1	9	1.05
1541111	Rock	3.88	0.014	0.9	43.5	5.0	41	0.1	1.0	2.3	351	1.06	<0.5	6.3	10.3	30	0.1	<0.1	0.3	7	1.27



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1541086	Rock	0.039	30	5	0.52	112	0.073	<20	1.13	0.051	0.42	0.4	<0.01	3.3	0.1	<0.05	6	<0.5	<0.2	
1541087	Rock	0.037	26	5	0.54	132	0.094	<20	1.18	0.058	0.52	0.4	<0.01	3.8	0.2	<0.05	6	<0.5	<0.2	
1541088	Rock	0.033	24	4	0.43	118	0.054	<20	1.14	0.048	0.42	0.3	<0.01	2.8	0.1	<0.05	5	<0.5	<0.2	
1541089	Rock	0.035	31	3	0.21	143	0.033	<20	0.86	0.045	0.28	0.3	0.01	3.7	<0.1	<0.05	4	<0.5	<0.2	
1541090	Rock	0.036	31	7	0.22	126	0.012	<20	0.73	0.056	0.18	0.4	<0.01	2.9	<0.1	<0.05	3	<0.5	<0.2	
1541091	Rock	0.030	29	4	0.45	123	0.098	<20	1.10	0.052	0.48	0.5	<0.01	3.5	0.1	<0.05	6	<0.5	<0.2	
1541092	Rock	0.039	28	5	0.60	153	0.122	<20	1.11	0.066	0.62	0.6	<0.01	4.4	0.2	<0.05	5	<0.5	<0.2	
1541093	Rock	0.032	29	4	0.43	115	0.107	<20	0.99	0.058	0.53	0.6	<0.01	3.1	0.2	<0.05	5	<0.5	<0.2	
1541094	Rock	0.035	23	4	0.50	128	0.119	<20	1.07	0.060	0.57	0.5	<0.01	3.4	0.2	<0.05	5	<0.5	<0.2	
1541095	Rock	0.022	21	13	0.21	88	0.057	<20	0.72	0.056	0.31	0.7	<0.01	2.8	0.1	<0.05	3	<0.5	<0.2	
1541096	Rock	0.023	28	5	0.18	100	0.047	<20	0.63	0.047	0.31	1.0	<0.01	2.2	0.1	<0.05	3	<0.5	<0.2	
1541097	Rock	0.023	23	5	0.21	92	0.058	<20	0.63	0.058	0.35	0.9	<0.01	2.3	0.2	<0.05	3	<0.5	<0.2	
1541098	Rock	0.024	35	5	0.20	106	0.058	<20	0.66	0.056	0.33	1.3	<0.01	2.3	0.1	<0.05	3	<0.5	<0.2	
1541099	Rock	0.027	28	4	0.24	90	0.065	<20	0.68	0.072	0.37	1.4	<0.01	2.3	0.1	<0.05	3	<0.5	<0.2	
1541100	Rock Pulp	0.060	7	19	0.88	137	0.151	<20	1.81	0.200	0.25	5.6	0.17	3.3	<0.1	<0.05	5	<0.5	<0.2	
1541101	Rock	0.028	30	4	0.27	98	0.084	<20	0.70	0.055	0.40	0.7	<0.01	3.4	0.1	<0.05	4	<0.5	<0.2	
1541102	Rock	0.023	24	5	0.12	75	0.023	<20	0.87	0.007	0.27	0.5	0.08	2.3	<0.1	<0.05	3	<0.5	7.9	
1541103	Rock	0.018	28	4	0.23	86	0.061	<20	0.69	0.038	0.39	0.9	<0.01	2.1	0.2	<0.05	3	<0.5	<0.2	
1541104	Rock	0.031	28	8	0.35	125	0.098	<20	0.79	0.045	0.49	0.8	<0.01	2.9	0.2	<0.05	4	<0.5	<0.2	
1541105	Rock	0.029	27	3	0.37	148	0.105	<20	0.85	0.060	0.52	0.5	<0.01	4.1	0.1	<0.05	4	<0.5	<0.2	
1541106	Rock	0.036	27	3	0.61	149	0.131	<20	1.10	0.070	0.71	0.6	<0.01	4.9	0.2	<0.05	5	<0.5	<0.2	
1541107	Rock	0.029	24	3	0.34	121	0.075	<20	0.83	0.055	0.47	0.4	<0.01	3.3	0.1	<0.05	4	<0.5	<0.2	
1541108	Rock	0.037	25	3	0.31	119	0.059	<20	0.81	0.052	0.42	0.3	<0.01	3.1	0.1	<0.05	4	<0.5	<0.2	
1541109	Rock	0.032	27	5	0.30	96	0.035	<20	0.75	0.045	0.33	0.4	<0.01	2.3	<0.1	<0.05	3	<0.5	<0.2	
1541110	Rock	0.024	24	3	0.39	52	0.025	<20	0.68	0.066	0.27	0.6	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2	
1541111	Rock	0.025	27	2	0.09	71	0.016	<20	0.49	0.055	0.23	0.3	<0.01	1.5	<0.1	<0.05	2	<0.5	<0.2	



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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm		
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
REP 1541023	QC	<0.005																			
1541026	Rock	3.10	<0.005	0.9	8.7	4.8	37	<0.1	1.1	3.6	623	1.75	<0.5	0.9	8.2	90	<0.1	<0.1	<0.1	22	2.41
REP 1541026	QC	0.8 8.2 4.9 43 <0.1 1.2 3.8 616 1.78 <0.5 0.5 8.4 92 <0.1 <0.1 <0.1 23 2.48																			
1541036	Rock	3.29	<0.005	0.9	4.6	1.5	39	<0.1	1.1	4.1	482	1.84	<0.5	1.1	9.7	48	<0.1	<0.1	<0.1	27	0.79
REP 1541036	QC	<0.005																			
1541061	Rock	2.81	0.005	1.1	20.4	3.7	51	<0.1	1.9	5.8	576	2.06	<0.5	<0.5	9.5	71	<0.1	<0.1	<0.1	25	1.32
REP 1541061	QC	1.1 20.4 3.7 52 <0.1 1.9 6.2 570 2.12 <0.5 <0.5 9.5 71 <0.1 <0.1 <0.1 26 1.35																			
1541085	Rock	3.46	<0.005	0.7	9.9	2.7	53	<0.1	1.8	5.5	511	2.01	<0.5	<0.5	10.9	23	<0.1	<0.1	<0.1	28	0.28
REP 1541085	QC	<0.005																			
1541092	Rock	6.39	<0.005	0.8	9.3	2.1	48	<0.1	2.4	5.0	532	2.01	<0.5	<0.5	11.3	15	<0.1	<0.1	<0.1	31	0.19
REP 1541092	QC	<0.005																			
1541096	Rock	5.47	0.006	1.3	60.9	5.2	38	0.2	4.6	2.6	386	1.30	<0.5	3.9	10.7	9	0.1	<0.1	1.0	10	0.12
REP 1541096	QC	1.0 64.3 5.5 41 0.2 2.8 2.6 382 1.29 <0.5 3.2 11.1 10 0.1 <0.1 1.1 10 0.12																			
1541110	Rock	3.54	0.012	0.7	10.7	3.3	47	<0.1	1.4	2.6	389	1.30	<0.5	7.7	10.1	20	<0.1	<0.1	<0.1	9	1.05
REP 1541110	QC	0.7 10.4 3.3 44 <0.1 1.5 2.5 402 1.30 <0.5 7.2 10.2 20 <0.1 <0.1 <0.1 9 1.05																			
Core Reject Duplicates																					
1541023	Rock	3.52	<0.005	0.9	7.4	5.6	37	<0.1	1.6	4.4	540	1.82	<0.5	2.8	8.1	76	<0.1	<0.1	<0.1	28	2.61
DUP 1541023	QC	<0.005 0.9 6.6 5.5 33 <0.1 1.5 4.4 527 1.81 <0.5 1.6 8.4 76 <0.1 <0.1 <0.1 28 2.62																			
1541057	Rock	4.06	<0.005	0.9	10.1	4.6	47	<0.1	2.9	7.8	765	2.45	<0.5	<0.5	7.8	133	<0.1	<0.1	<0.1	43	3.28
DUP 1541057	QC	<0.005 0.9 12.5 4.7 50 <0.1 3.1 8.1 761 2.42 <0.5 <0.5 8.6 131 <0.1 0.1 <0.1 42 3.17																			
1541091	Rock	6.18	<0.005	0.8	9.7	2.5	52	<0.1	2.6	5.0	571	1.90	<0.5	3.5	9.4	17	<0.1	<0.1	<0.1	25	0.21
DUP 1541091	QC	<0.005 0.6 7.1 2.1 42 <0.1 2.1 5.1 507 1.85 <0.5 3.2 9.7 16 <0.1 <0.1 <0.1 24 0.20																			
Reference Materials																					
STD DS10	Standard	13.7 151.9 150.8 346 1.8 73.3 13.2 913 2.80 45.1 100.1 7.8 65 2.9 8.9 11.6 43 1.08																			
STD DS10	Standard	13.7 147.8 153.5 352 1.7 71.4 12.5 852 2.66 46.6 79.2 7.4 71 2.5 8.7 12.7 42 1.03																			
STD DS10	Standard	13.3 146.2 141.8 353 1.7 69.0 12.0 830 2.63 43.7 67.3 7.3 69 2.1 8.0 12.7 42 1.02																			
STD DS10	Standard	14.5 155.4 144.7 370 2.3 73.0 13.7 856 2.81 50.3 65.4 7.4 70 2.7 8.5 12.7 41 1.07																			
STD OREAS45EA	Standard	1.8 698.4 14.5 30 0.3 383.2 51.6 398 21.75 11.9 46.3 10.4 4 <0.1 0.4 0.3 309 0.04																			



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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																			
REP 1541023	QC																		
1541026	Rock	0.028	25	2	0.25	101	0.056	<20	0.76	0.017	0.36	0.4	<0.01	3.9	0.1	<0.05	3	<0.5	<0.2
REP 1541026	QC	0.030	25	2	0.25	107	0.057	<20	0.79	0.018	0.36	0.5	<0.01	3.7	0.1	<0.05	4	<0.5	<0.2
1541036	Rock	0.031	26	4	0.41	145	0.123	<20	0.93	0.038	0.62	0.8	<0.01	3.3	0.2	<0.05	4	<0.5	<0.2
REP 1541036	QC																		
1541061	Rock	0.037	27	6	0.49	70	0.036	<20	0.97	0.036	0.27	0.3	<0.01	3.6	<0.1	<0.05	5	0.5	<0.2
REP 1541061	QC	0.040	28	6	0.51	72	0.036	<20	0.99	0.036	0.27	0.3	<0.01	4.0	<0.1	<0.05	5	<0.5	<0.2
1541085	Rock	0.041	29	5	0.52	111	0.088	<20	1.07	0.062	0.46	0.3	<0.01	3.2	0.2	<0.05	5	<0.5	<0.2
REP 1541085	QC																		
1541092	Rock	0.039	28	5	0.60	153	0.122	<20	1.11	0.066	0.62	0.6	<0.01	4.4	0.2	<0.05	5	<0.5	<0.2
REP 1541092	QC																		
1541096	Rock	0.023	28	5	0.18	100	0.047	<20	0.63	0.047	0.31	1.0	<0.01	2.2	0.1	<0.05	3	<0.5	<0.2
REP 1541096	QC	0.022	29	4	0.18	105	0.048	<20	0.63	0.048	0.31	1.1	<0.01	2.1	0.1	<0.05	3	<0.5	<0.2
1541110	Rock	0.024	24	3	0.39	52	0.025	<20	0.68	0.066	0.27	0.6	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
REP 1541110	QC	0.024	25	3	0.40	54	0.026	<20	0.68	0.065	0.27	0.5	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
Core Reject Duplicates																			
1541023	Rock	0.040	23	4	0.23	114	0.049	<20	0.74	0.018	0.34	0.3	<0.01	5.1	<0.1	<0.05	3	<0.5	<0.2
DUP 1541023	QC	0.042	23	4	0.23	113	0.048	<20	0.74	0.016	0.34	0.4	<0.01	4.9	0.1	<0.05	3	<0.5	<0.2
1541057	Rock	0.061	25	7	0.84	42	0.028	<20	1.28	0.017	0.26	0.3	<0.01	5.0	<0.1	<0.05	5	<0.5	<0.2
DUP 1541057	QC	0.055	25	6	0.81	41	0.028	<20	1.25	0.018	0.26	0.3	<0.01	5.0	<0.1	<0.05	5	<0.5	<0.2
1541091	Rock	0.030	29	4	0.45	123	0.098	<20	1.10	0.052	0.48	0.5	<0.01	3.5	0.1	<0.05	6	<0.5	<0.2
DUP 1541091	QC	0.032	28	4	0.45	122	0.100	<20	1.00	0.051	0.48	0.4	<0.01	3.4	0.1	<0.05	5	<0.5	<0.2
Reference Materials																			
STD DS10	Standard	0.078	17	54	0.78	422	0.078	<20	1.04	0.071	0.35	3.1	0.30	2.9	5.2	0.29	4	2.0	4.5
STD DS10	Standard	0.073	17	53	0.74	402	0.078	<20	1.00	0.069	0.33	2.8	0.27	2.9	5.0	0.27	4	2.5	4.7
STD DS10	Standard	0.075	17	52	0.74	405	0.075	<20	0.99	0.067	0.32	3.0	0.27	2.8	4.8	0.27	4	1.9	4.7
STD DS10	Standard	0.071	19	64	0.79	426	0.088	<20	1.03	0.068	0.33	3.5	0.29	3.0	5.0	0.28	5	2.2	5.5
STD OREAS45EA	Standard	0.026	7	844	0.08	146	0.095	<20	3.20	0.016	0.06	<0.1	<0.01	76.1	0.1	<0.05	13	1.2	<0.2



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		WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
STD OREAS45EA	Standard			1.5	655.8	13.9	30	0.2	372.4	45.9	392	20.31	10.6	52.6	10.5	4	<0.1	0.3	0.2	286	0.03
STD OREAS45EA	Standard			1.5	684.2	14.7	33	0.2	390.7	52.3	417	24.39	11.4	64.4	11.0	4	<0.1	0.4	0.3	301	0.03
STD OREAS45EA	Standard			1.4	678.0	13.8	31	0.2	379.5	47.4	396	20.76	10.0	49.2	10.4	4	<0.1	0.4	0.3	298	0.03
STD OREAS45EA	Standard			1.6	680.7	15.8	31	0.3	387.5	53.4	379	23.55	11.3	53.9	10.8	4	<0.1	0.3	0.3	299	0.03
STD OXC145	Standard		0.217																		
STD OXC145	Standard		0.214																		
STD OXH122	Standard		1.311																		
STD OXH122	Standard		1.253																		
STD OXN117	Standard		8.204																		
STD OXN117	Standard		7.160																		
STD OXN117 Expected			7.679																		
STD OXC145 Expected			0.212																		
STD OXH122 Expected			1.247																		
STD DS10 Expected				13.6	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625
STD OREAS45EA Expected				1.6	709	14.3	31.4	0.26	381	52	400	23.51	10.3	53	10.7	3.5	0.03	0.32	0.26	303	0.036
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
Prep Wash																					
ROCK-WHI	Prep Blank		<0.005	0.6	8.0	4.4	35	<0.1	0.8	3.5	523	1.66	<0.5	1.8	2.3	18	<0.1	<0.1	<0.1	20	0.51
ROCK-WHI	Prep Blank		<0.005	0.8	9.1	1.5	36	<0.1	1.0	3.7	517	1.73	<0.5	0.8	2.3	24	<0.1	<0.1	<0.1	23	0.57



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		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD OREAS45EA	Standard	0.028	7	722	0.09	134	0.090	<20	3.14	0.024	0.05	<0.1	<0.01	72.8	<0.1	<0.05	12	1.6	<0.2
STD OREAS45EA	Standard	0.028	7	827	0.09	142	0.100	<20	3.30	0.024	0.05	<0.1	0.01	78.7	<0.1	<0.05	12	<0.5	<0.2
STD OREAS45EA	Standard	0.028	7	748	0.09	137	0.093	<20	3.17	0.023	0.05	<0.1	0.01	74.4	<0.1	<0.05	11	0.9	<0.2
STD OREAS45EA	Standard	0.028	7	881	0.09	152	0.103	<20	3.19	0.019	0.05	<0.1	<0.01	74.4	<0.1	<0.05	14	0.7	<0.2
STD OXC145	Standard																		
STD OXC145	Standard																		
STD OXH122	Standard																		
STD OXH122	Standard																		
STD OXN117	Standard																		
STD OXN117	Standard																		
STD OXN117 Expected																			
STD OXC145 Expected																			
STD OXH122 Expected																			
STD DS10 Expected		0.0765	17.5	54.6	0.775	412	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3	2.3	5.01
STD OREAS45EA Expected		0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053			78	0.072	0.036	12.4	0.78	0.07
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																			
ROCK-WHI	Prep Blank	0.039	5	2	0.47	54	0.070	<20	0.82	0.071	0.09	0.1	0.01	2.6	<0.1	0.05	3	<0.5	<0.2
ROCK-WHI	Prep Blank	0.037	5	3	0.48	49	0.078	<20	0.86	0.075	0.08	<0.1	<0.01	2.7	<0.1	<0.05	3	<0.5	<0.2



BUREAU VERITAS MINERAL LABORATORIES
Canada

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

Client: **White Gold Corp.**
Box 70
Dawson Yukon Y0B 1G0 Canada

Submitted By: Jodie Gibson
Receiving Lab: Canada-Whitehorse
Received: July 10, 2017
Report Date: August 08, 2017
Page: 1 of 5

CERTIFICATE OF ANALYSIS

WHI17000269.1

CLIENT JOB INFORMATION

Project: LOO
Shipment ID: LOO-20170707-003-RAB
P.O. Number
Number of Samples: 114

SAMPLE DISPOSAL

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

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

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

CC: Isaac Fage
Shawn Ryan
Greg Dawson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	111	Crush, split and pulverize 250 g rock to 200 mesh			WHI
SLBHP	3	Sort, label and box pulps			WHI
FA430	114	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	114	Environmental disposal charge-Fire assay lead waste			VAN
AQ200	114	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	114	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



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



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Project: LOO
Report Date: August 08, 2017

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CERTIFICATE OF ANALYSIS

WHI17000269.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540882	Rock	3.81	<0.005	4.5	3.8	2.4	41	<0.1	1.3	3.7	615	1.74	<0.5	0.8	12.0	40	<0.1	<0.1	<0.1	20	1.15
1540883	Rock	3.92	<0.005	2.5	2.8	2.8	36	<0.1	1.3	3.9	586	1.87	<0.5	<0.5	10.1	51	<0.1	<0.1	<0.1	20	1.32
1540884	Rock	3.10	<0.005	1.8	3.2	2.6	39	<0.1	1.6	4.3	580	1.86	<0.5	<0.5	10.3	49	<0.1	<0.1	<0.1	23	0.91
1540885	Rock	4.23	<0.005	2.2	4.2	6.1	39	<0.1	1.6	4.3	628	1.80	<0.5	<0.5	8.8	66	0.1	<0.1	<0.1	19	1.76
1540886	Rock	3.80	<0.005	3.7	5.8	4.4	51	<0.1	1.8	4.3	559	1.71	<0.5	1.0	7.6	42	0.1	<0.1	<0.1	18	1.20
1540887	Rock	3.16	<0.005	5.4	7.4	7.1	60	<0.1	1.5	4.6	702	1.95	0.6	1.8	9.8	62	0.3	<0.1	<0.1	20	1.82
1540888	Rock	4.01	<0.005	4.1	6.9	6.0	47	<0.1	1.5	3.7	538	1.60	<0.5	<0.5	9.8	64	<0.1	<0.1	0.2	17	1.69
1540889	Rock	3.77	<0.005	4.2	7.4	6.2	44	<0.1	0.9	3.9	680	1.58	0.8	<0.5	9.1	98	0.1	<0.1	0.2	13	2.59
1540890	Rock	3.77	<0.005	2.2	8.5	4.1	37	<0.1	1.5	3.1	562	1.47	<0.5	<0.5	9.3	87	<0.1	<0.1	0.3	11	1.88
1540891	Rock	3.81	<0.005	2.9	6.0	4.2	32	<0.1	1.4	2.8	512	1.48	<0.5	<0.5	9.9	56	<0.1	<0.1	0.2	9	1.60
1540892	Rock	4.26	<0.005	2.4	6.6	3.1	38	<0.1	1.8	2.8	371	1.31	<0.5	<0.5	12.4	38	0.1	<0.1	0.1	10	0.80
1540893	Rock	3.38	<0.005	2.4	5.3	2.1	30	<0.1	2.0	2.8	406	1.41	<0.5	<0.5	9.9	23	<0.1	<0.1	<0.1	13	0.58
1540894	Rock	3.81	<0.005	3.6	6.5	3.2	31	<0.1	2.0	2.8	445	1.39	<0.5	0.9	12.0	37	<0.1	<0.1	<0.1	11	0.81
1540895	Rock	3.16	<0.005	2.7	6.2	2.4	30	<0.1	2.0	2.8	475	1.41	<0.5	<0.5	13.7	42	<0.1	<0.1	<0.1	11	0.62
1540896	Rock	2.99	<0.005	1.5	3.4	2.6	26	<0.1	1.4	2.5	366	1.36	<0.5	<0.5	10.0	32	<0.1	<0.1	<0.1	13	0.63
1540897	Rock	3.32	<0.005	1.9	3.6	2.2	29	<0.1	1.7	2.6	503	1.36	<0.5	<0.5	11.1	54	<0.1	<0.1	<0.1	11	1.20
1540898	Rock	4.32	<0.005	2.1	4.7	3.2	25	<0.1	1.5	2.7	515	1.21	<0.5	1.2	12.3	71	<0.1	<0.1	<0.1	8	1.70
1540899	Rock	4.02	<0.005	2.5	3.0	2.7	28	<0.1	1.9	2.6	387	1.19	<0.5	<0.5	12.7	52	<0.1	<0.1	<0.1	10	1.03
1540900	Rock Pulp	0.12	0.573	7.1	298.9	17.1	56	0.8	114.1	14.5	455	2.89	169.9	858.3	3.8	98	0.3	1.5	0.2	67	1.82
1540901	Rock	4.21	<0.005	4.2	4.6	4.7	39	<0.1	1.7	4.1	654	1.94	<0.5	<0.5	12.1	118	<0.1	<0.1	<0.1	22	2.47
1540902	Rock	4.51	<0.005	2.3	6.1	3.0	36	<0.1	1.7	4.5	579	1.86	<0.5	0.6	10.6	86	<0.1	<0.1	<0.1	26	1.43
1540903	Rock	3.62	<0.005	2.8	6.1	3.4	38	<0.1	2.1	5.5	602	1.94	0.5	1.1	9.8	81	<0.1	0.1	<0.1	25	1.42
1540904	Rock	4.21	0.052	3.3	18.0	5.3	34	<0.1	2.0	5.0	513	1.72	0.5	52.2	10.2	118	<0.1	<0.1	<0.1	14	2.88
1540905	Rock	4.60	<0.005	3.0	4.3	7.9	41	<0.1	1.5	4.3	681	2.04	1.1	4.6	7.7	183	0.1	<0.1	<0.1	17	4.80
1540906	Rock	3.83	<0.005	4.2	4.1	4.7	38	<0.1	1.6	4.6	472	1.95	0.9	<0.5	9.5	90	<0.1	<0.1	<0.1	25	2.10
1540907	Rock	3.50	<0.005	2.0	4.7	2.9	41	<0.1	2.3	5.3	503	2.07	<0.5	0.9	9.1	50	<0.1	<0.1	<0.1	25	1.01
1540908	Rock	3.07	<0.005	3.5	6.3	3.4	42	<0.1	2.0	5.0	458	1.86	<0.5	<0.5	10.3	68	<0.1	<0.1	<0.1	24	1.19
1540909	Rock	3.12	<0.005	3.6	7.5	4.0	45	<0.1	1.9	5.3	493	2.05	<0.5	<0.5	12.6	83	<0.1	0.1	<0.1	27	1.40
1540910	Rock	4.02	<0.005	2.7	8.3	3.0	45	<0.1	2.0	4.6	472	1.84	<0.5	<0.5	10.9	65	<0.1	<0.1	<0.1	30	1.05
1540911	Rock	3.90	<0.005	4.2	5.7	4.4	49	<0.1	1.9	4.9	602	2.08	<0.5	<0.5	12.4	73	<0.1	<0.1	<0.1	28	1.14



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Project: LOO
Report Date: August 08, 2017

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CERTIFICATE OF ANALYSIS

WHI17000269.1

Method Analyte Unit MDL	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	
1540882	Rock	0.028	30	7	0.27	84	0.080	<20	0.72	0.044	0.39	0.6	<0.01	5.0	0.1	<0.05	4	<0.5	<0.2
1540883	Rock	0.029	28	7	0.28	72	0.063	<20	0.77	0.045	0.36	0.5	<0.01	4.7	0.1	<0.05	3	<0.5	<0.2
1540884	Rock	0.032	29	7	0.35	92	0.100	<20	0.84	0.040	0.47	0.6	<0.01	4.8	0.2	<0.05	4	<0.5	<0.2
1540885	Rock	0.027	30	6	0.28	96	0.072	<20	0.80	0.037	0.42	0.5	<0.01	3.5	0.1	<0.05	3	<0.5	<0.2
1540886	Rock	0.030	22	6	0.30	84	0.070	<20	0.76	0.027	0.42	0.7	<0.01	4.3	0.1	<0.05	4	<0.5	<0.2
1540887	Rock	0.029	30	6	0.28	123	0.075	<20	0.90	0.023	0.44	0.7	<0.01	4.4	0.1	<0.05	4	<0.5	<0.2
1540888	Rock	0.027	25	6	0.22	90	0.055	<20	0.71	0.017	0.32	0.5	<0.01	4.5	0.1	<0.05	4	<0.5	<0.2
1540889	Rock	0.025	24	4	0.18	74	0.021	<20	0.65	0.015	0.21	0.2	0.01	3.9	<0.1	<0.05	3	<0.5	<0.2
1540890	Rock	0.025	27	7	0.24	145	0.028	<20	0.54	0.030	0.21	0.5	<0.01	2.7	<0.1	<0.05	2	<0.5	<0.2
1540891	Rock	0.023	29	7	0.16	51	0.025	<20	0.63	0.032	0.22	0.4	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
1540892	Rock	0.023	27	7	0.16	51	0.037	<20	0.53	0.034	0.24	0.6	<0.01	3.1	0.1	<0.05	3	<0.5	<0.2
1540893	Rock	0.031	28	8	0.25	80	0.057	<20	0.68	0.036	0.32	0.7	<0.01	2.4	0.1	<0.05	3	<0.5	<0.2
1540894	Rock	0.023	26	8	0.16	82	0.034	<20	0.54	0.038	0.24	0.8	<0.01	2.9	0.1	<0.05	3	<0.5	<0.2
1540895	Rock	0.023	30	10	0.17	68	0.060	<20	0.54	0.043	0.29	1.4	<0.01	3.6	0.1	<0.05	3	<0.5	<0.2
1540896	Rock	0.025	25	8	0.21	55	0.052	<20	0.69	0.044	0.33	0.8	<0.01	2.6	0.1	<0.05	3	<0.5	<0.2
1540897	Rock	0.026	30	9	0.25	43	0.033	<20	0.50	0.034	0.22	0.9	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
1540898	Rock	0.024	32	7	0.14	71	0.012	<20	0.46	0.032	0.17	0.4	<0.01	2.6	<0.1	<0.05	2	<0.5	<0.2
1540899	Rock	0.024	37	8	0.20	67	0.036	<20	0.55	0.034	0.24	0.6	<0.01	2.7	<0.1	<0.05	3	<0.5	<0.2
1540900	Rock Pulp	0.031	8	106	1.46	123	0.111	<20	2.74	0.322	0.22	0.9	0.03	3.4	<0.1	0.10	6	<0.5	<0.2
1540901	Rock	0.033	36	7	0.27	146	0.035	<20	0.72	0.032	0.28	0.3	<0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
1540902	Rock	0.029	27	9	0.33	106	0.083	<20	0.79	0.040	0.42	0.7	<0.01	3.7	0.1	<0.05	4	<0.5	<0.2
1540903	Rock	0.033	22	9	0.30	97	0.053	<20	0.81	0.035	0.36	0.4	<0.01	4.3	0.1	<0.05	4	<0.5	<0.2
1540904	Rock	0.042	26	7	0.27	71	0.005	<20	0.42	0.024	0.19	0.2	<0.01	2.6	<0.1	<0.05	2	<0.5	<0.2
1540905	Rock	0.027	25	6	0.31	54	0.005	<20	0.46	0.025	0.15	0.1	<0.01	3.5	<0.1	<0.05	2	<0.5	<0.2
1540906	Rock	0.044	25	7	0.32	81	0.029	<20	0.80	0.021	0.28	0.3	<0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
1540907	Rock	0.034	24	9	0.40	66	0.045	<20	0.92	0.043	0.32	0.2	<0.01	3.6	0.1	<0.05	4	<0.5	<0.2
1540908	Rock	0.032	29	9	0.27	85	0.051	<20	0.75	0.032	0.33	0.4	<0.01	3.8	0.1	<0.05	3	<0.5	<0.2
1540909	Rock	0.034	29	8	0.29	77	0.067	<20	0.85	0.034	0.39	0.6	<0.01	5.0	0.2	<0.05	4	<0.5	<0.2
1540910	Rock	0.033	28	9	0.35	111	0.081	<20	0.88	0.030	0.47	0.6	<0.01	3.7	0.2	<0.05	5	<0.5	<0.2
1540911	Rock	0.028	30	10	0.43	166	0.115	<20	0.98	0.048	0.54	0.6	<0.01	4.8	0.2	<0.05	5	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

WHI17000269.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540912	Rock	4.24	<0.005	1.8	13.9	4.6	43	<0.1	2.4	4.7	536	1.93	<0.5	0.6	8.4	60	<0.1	<0.1	<0.1	29	1.30
1540913	Rock	4.11	<0.005	2.4	7.9	5.1	42	<0.1	2.2	5.5	527	2.06	<0.5	1.0	11.3	83	<0.1	<0.1	<0.1	30	1.26
1540914	Rock	3.13	<0.005	2.7	2.6	3.3	42	<0.1	1.4	4.6	551	2.00	<0.5	<0.5	9.8	61	<0.1	<0.1	<0.1	26	0.95
1540915	Rock	4.60	<0.005	3.0	3.8	3.8	33	<0.1	1.8	4.1	384	1.68	<0.5	0.7	9.6	58	<0.1	<0.1	<0.1	21	1.00
1540916	Rock	1.93	0.006	0.7	9.1	3.4	55	<0.1	3.9	8.1	755	2.69	0.8	2.5	10.4	23	<0.1	0.1	<0.1	51	0.48
1540917	Rock	3.00	<0.005	1.0	2.9	3.8	36	<0.1	3.2	4.9	568	1.92	<0.5	0.8	8.4	41	<0.1	<0.1	<0.1	24	2.07
1540918	Rock	5.74	<0.005	0.5	2.4	3.3	41	<0.1	1.9	4.4	486	1.84	0.6	1.2	11.2	51	<0.1	<0.1	<0.1	25	1.35
1540919	Rock	3.77	<0.005	0.6	1.8	3.3	37	<0.1	2.0	4.5	579	1.90	<0.5	1.5	9.8	55	<0.1	<0.1	<0.1	24	1.62
1540920	Rock	0.11	<0.005	0.4	2.3	5.0	25	0.1	4.4	0.6	111	0.21	3.9	4.3	0.4	309	0.2	1.5	<0.1	21	18.92
1540921	Rock	3.94	<0.005	0.9	4.9	4.4	43	<0.1	2.9	6.0	646	2.13	<0.5	0.8	9.6	64	<0.1	<0.1	<0.1	37	2.69
1540922	Rock	3.93	<0.005	0.7	2.8	3.2	39	<0.1	2.0	4.2	516	1.75	<0.5	<0.5	11.2	46	<0.1	<0.1	0.1	21	1.45
1540923	Rock	4.04	<0.005	0.8	5.9	2.7	31	<0.1	2.4	3.0	339	1.34	<0.5	1.1	13.0	26	<0.1	<0.1	<0.1	14	0.72
1540924	Rock	4.08	<0.005	1.1	6.5	3.0	33	<0.1	1.7	2.8	342	1.49	<0.5	<0.5	14.7	19	<0.1	<0.1	0.1	16	0.52
1540925	Rock	3.95	<0.005	1.2	20.8	5.7	29	<0.1	1.6	3.3	425	1.58	<0.5	<0.5	10.2	23	<0.1	<0.1	0.3	16	0.82
1540926	Rock	3.72	<0.005	1.3	42.3	6.1	37	<0.1	1.7	3.4	426	1.57	<0.5	<0.5	8.2	29	<0.1	<0.1	0.2	15	1.20
1540927	Rock	4.16	<0.005	1.5	15.1	6.8	50	<0.1	2.2	5.4	624	2.00	<0.5	<0.5	12.0	38	<0.1	<0.1	0.2	26	1.50
1540928	Rock	5.22	<0.005	0.9	5.2	5.5	45	<0.1	1.7	4.9	596	1.94	<0.5	<0.5	10.1	42	<0.1	<0.1	<0.1	24	1.82
1540929	Rock	4.88	<0.005	1.2	8.7	5.2	52	<0.1	2.0	5.0	641	1.94	<0.5	<0.5	10.8	30	<0.1	<0.1	0.3	23	1.80
1540930	Rock	4.63	<0.005	1.0	10.5	4.2	46	<0.1	1.7	3.1	473	1.46	<0.5	0.7	9.3	44	<0.1	<0.1	0.2	15	1.05
1540931	Rock	4.23	<0.005	0.9	3.5	3.4	31	<0.1	2.0	2.7	432	1.42	<0.5	<0.5	12.4	26	<0.1	<0.1	0.1	12	0.99
1540932	Rock	4.54	<0.005	2.0	4.2	3.9	25	<0.1	1.5	2.6	465	1.35	<0.5	1.1	10.4	25	<0.1	<0.1	<0.1	11	1.81
1540933	Rock	4.11	<0.005	0.9	3.9	3.1	26	<0.1	2.3	2.6	355	1.14	<0.5	0.8	11.1	26	<0.1	<0.1	<0.1	12	1.19
1540934	Rock	4.26	<0.005	0.9	4.6	4.1	32	<0.1	1.6	2.7	465	1.38	<0.5	<0.5	12.0	47	<0.1	<0.1	<0.1	12	1.53
1540935	Rock	4.15	<0.005	1.0	3.0	3.4	25	<0.1	1.8	2.3	347	1.12	<0.5	0.6	12.7	30	<0.1	<0.1	<0.1	10	1.42
1540936	Rock	5.23	<0.005	3.3	2.8	7.1	37	<0.1	1.7	3.3	658	1.69	<0.5	1.0	8.7	47	<0.1	<0.1	<0.1	12	3.77
1540937	Rock	4.74	<0.005	1.4	3.0	3.1	33	<0.1	1.6	2.6	471	1.31	<0.5	<0.5	9.0	25	<0.1	<0.1	<0.1	14	1.25
1540938	Rock	4.67	<0.005	1.4	4.4	3.9	47	<0.1	2.3	3.5	524	1.58	<0.5	<0.5	8.2	35	<0.1	<0.1	<0.1	19	1.79
1540939	Rock	4.65	<0.005	1.0	6.5	3.1	53	<0.1	2.1	3.7	440	1.62	<0.5	0.9	7.2	41	<0.1	<0.1	<0.1	25	0.98
1540940	Rock Pulp	0.08	4.990	7.9	184.9	21.5	70	0.8	13.9	11.1	600	4.20	10.1	4680.3	2.8	64	0.1	3.0	0.4	105	0.95
1540941	Rock	4.34	0.013	1.0	7.4	3.0	32	<0.1	1.6	3.3	385	1.38	<0.5	14.6	6.8	45	<0.1	<0.1	<0.1	17	1.48



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Project: LOO
Report Date: August 08, 2017

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Method Analyte	Unit	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
MDL		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
1540912	Rock	0.035	23	11	0.46	152	0.102	<20	0.93	0.033	0.52	0.7	<0.01	4.7	0.1	<0.05	5	<0.5	<0.2	
1540913	Rock	0.031	29	9	0.45	102	0.104	<20	0.99	0.036	0.51	0.7	<0.01	5.6	0.1	<0.05	5	<0.5	<0.2	
1540914	Rock	0.034	28	9	0.36	90	0.060	<20	0.84	0.040	0.34	0.4	<0.01	4.3	<0.1	<0.05	4	<0.5	<0.2	
1540915	Rock	0.033	25	7	0.24	53	0.034	<20	0.69	0.025	0.26	0.2	<0.01	2.9	<0.1	<0.05	3	<0.5	<0.2	
1540916	Rock	0.042	27	6	0.74	197	0.130	<20	1.42	0.038	0.55	0.2	<0.01	6.3	0.2	<0.05	6	<0.5	<0.2	
1540917	Rock	0.032	24	5	0.33	137	0.083	<20	0.90	0.025	0.47	0.5	<0.01	3.8	0.1	<0.05	4	<0.5	<0.2	
1540918	Rock	0.035	27	3	0.37	104	0.097	<20	1.03	0.030	0.53	0.6	<0.01	4.4	0.2	<0.05	5	<0.5	<0.2	
1540919	Rock	0.035	31	4	0.37	112	0.101	<20	1.00	0.036	0.52	0.3	<0.01	3.9	0.2	<0.05	5	<0.5	<0.2	
1540920	Rock	0.013	2	3	11.64	17	0.003	<20	0.12	0.002	0.02	0.2	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2	
1540921	Rock	0.052	29	5	0.45	176	0.107	<20	1.05	0.022	0.58	0.3	<0.01	6.1	0.2	<0.05	5	<0.5	<0.2	
1540922	Rock	0.032	27	5	0.31	113	0.089	<20	0.90	0.044	0.47	0.3	<0.01	3.4	0.2	<0.05	5	<0.5	<0.2	
1540923	Rock	0.022	32	5	0.20	75	0.053	<20	0.62	0.042	0.32	0.8	<0.01	2.8	0.1	<0.05	4	<0.5	<0.2	
1540924	Rock	0.023	35	4	0.23	103	0.084	<20	0.69	0.045	0.39	1.0	<0.01	3.1	0.2	<0.05	4	<0.5	<0.2	
1540925	Rock	0.027	28	4	0.24	91	0.080	<20	0.74	0.031	0.43	0.7	<0.01	2.6	0.2	<0.05	3	<0.5	<0.2	
1540926	Rock	0.039	26	4	0.24	96	0.058	<20	0.86	0.025	0.40	0.6	<0.01	2.0	0.2	<0.05	4	<0.5	<0.2	
1540927	Rock	0.040	27	4	0.34	118	0.099	<20	0.95	0.009	0.54	0.7	<0.01	5.1	0.2	<0.05	5	<0.5	<0.2	
1540928	Rock	0.035	30	4	0.29	155	0.097	<20	0.97	0.007	0.52	0.6	<0.01	4.1	0.2	<0.05	5	<0.5	<0.2	
1540929	Rock	0.035	27	4	0.31	130	0.095	<20	0.85	0.007	0.51	0.7	<0.01	4.4	0.2	<0.05	5	<0.5	<0.2	
1540930	Rock	0.036	25	4	0.28	97	0.072	<20	0.79	0.035	0.43	0.7	<0.01	2.6	0.1	<0.05	4	<0.5	<0.2	
1540931	Rock	0.025	32	5	0.20	88	0.075	<20	0.69	0.024	0.38	0.8	<0.01	3.1	0.1	<0.05	4	<0.5	<0.2	
1540932	Rock	0.025	28	4	0.15	89	0.042	<20	0.62	0.013	0.29	0.5	<0.01	2.8	0.1	<0.05	3	<0.5	<0.2	
1540933	Rock	0.025	29	5	0.14	72	0.039	<20	0.54	0.026	0.25	0.4	<0.01	2.7	0.1	<0.05	3	<0.5	<0.2	
1540934	Rock	0.024	28	4	0.17	74	0.058	<20	0.68	0.027	0.33	0.6	<0.01	3.2	0.1	<0.05	4	<0.5	<0.2	
1540935	Rock	0.024	29	5	0.13	54	0.039	<20	0.53	0.016	0.24	0.5	<0.01	3.3	<0.1	<0.05	3	<0.5	<0.2	
1540936	Rock	0.018	26	5	0.13	64	0.016	<20	0.39	0.008	0.12	0.5	<0.01	2.8	<0.1	<0.05	2	<0.5	<0.2	
1540937	Rock	0.031	24	5	0.19	76	0.040	<20	0.58	0.027	0.26	0.6	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2	
1540938	Rock	0.031	24	5	0.25	69	0.032	<20	0.72	0.038	0.29	0.4	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2	
1540939	Rock	0.038	20	5	0.37	95	0.069	<20	0.86	0.038	0.41	0.5	<0.01	2.5	0.1	<0.05	5	<0.5	<0.2	
1540940	Rock Pulp	0.060	8	19	0.86	123	0.148	<20	1.78	0.188	0.23	4.5	0.15	2.8	<0.1	<0.05	5	<0.5	<0.2	
1540941	Rock	0.030	18	6	0.19	69	0.031	<20	0.63	0.035	0.26	0.2	<0.01	2.2	<0.1	<0.05	3	<0.5	<0.2	



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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540942	Rock	4.41	0.015	1.0	5.0	2.5	36	<0.1	2.6	5.5	554	1.74	<0.5	9.4	7.6	36	<0.1	<0.1	<0.1	21	1.39
1540943	Rock	4.77	<0.005	1.0	6.7	3.6	48	<0.1	2.0	6.2	545	2.11	<0.5	3.3	11.4	49	<0.1	<0.1	<0.1	28	1.21
1540944	Rock	4.52	<0.005	1.1	5.8	4.8	41	<0.1	2.0	5.5	549	2.04	<0.5	0.7	9.4	63	<0.1	<0.1	<0.1	29	1.97
1540945	Rock	4.47	<0.005	0.9	4.1	4.8	46	<0.1	1.8	5.3	608	1.97	<0.5	2.2	9.4	72	<0.1	<0.1	<0.1	26	1.82
1540946	Rock	4.24	<0.005	1.3	5.7	3.5	54	<0.1	2.2	4.9	531	1.85	<0.5	1.2	8.8	57	<0.1	<0.1	<0.1	23	1.40
1540947	Rock	4.51	<0.005	2.0	3.6	2.5	36	<0.1	2.3	5.2	513	1.85	<0.5	2.0	8.9	46	<0.1	<0.1	<0.1	23	1.10
1540948	Rock	4.58	<0.005	2.4	6.4	3.5	42	<0.1	2.2	6.3	654	2.07	<0.5	2.0	9.2	50	<0.1	0.1	<0.1	29	1.13
1540949	Rock	4.21	<0.005	1.1	2.3	2.8	38	<0.1	2.2	5.0	507	1.85	<0.5	1.5	9.9	51	<0.1	0.1	<0.1	23	1.00
1540950	Rock	4.03	<0.005	1.2	4.9	2.5	34	<0.1	2.2	4.8	563	1.97	<0.5	2.5	8.8	61	<0.1	<0.1	<0.1	27	1.14
1540951	Rock	3.89	<0.005	1.4	8.2	2.3	47	<0.1	2.5	6.1	552	2.06	0.8	2.1	7.5	51	<0.1	0.5	<0.1	30	1.01
1540952	Rock	4.12	<0.005	1.4	5.8	1.9	37	<0.1	2.1	5.2	554	2.12	<0.5	1.0	7.7	44	<0.1	<0.1	<0.1	34	0.87
1540953	Rock	4.57	<0.005	1.5	3.9	2.6	41	<0.1	2.5	5.8	589	2.15	<0.5	1.3	10.0	65	<0.1	<0.1	<0.1	28	1.45
1540954	Rock	4.50	<0.005	1.5	10.0	2.7	41	<0.1	2.4	6.1	550	2.25	0.8	2.1	8.5	65	<0.1	<0.1	<0.1	34	1.09
1540955	Rock	4.00	<0.005	1.2	7.6	1.9	46	<0.1	2.8	7.4	555	2.26	<0.5	<0.5	8.3	52	<0.1	<0.1	<0.1	35	0.90
1540956	Rock	4.32	<0.005	2.2	4.8	2.7	35	<0.1	2.3	6.2	674	2.03	<0.5	0.9	9.0	58	<0.1	<0.1	<0.1	29	1.53
1540957	Rock	4.68	<0.005	1.6	4.7	2.2	36	<0.1	2.4	4.2	356	1.65	<0.5	1.0	9.5	62	<0.1	<0.1	<0.1	22	1.03
1540958	Rock	5.26	<0.005	1.3	2.9	2.3	29	<0.1	1.6	4.4	391	1.74	<0.5	<0.5	12.3	54	<0.1	<0.1	<0.1	24	1.10
1540959	Rock	4.89	<0.005	1.2	5.2	2.6	32	<0.1	2.8	5.4	492	1.96	<0.5	<0.5	8.6	77	<0.1	<0.1	<0.1	30	1.47
1540960	Rock	0.13	0.007	0.8	56.6	4.4	33	0.1	3.6	1.2	171	0.50	2.8	1.1	2.3	284	0.3	1.7	<0.1	22	16.05
1540961	Rock	4.46	<0.005	1.2	5.6	1.4	48	<0.1	2.2	5.9	558	2.19	<0.5	<0.5	9.8	47	<0.1	<0.1	<0.1	30	1.01
1540962	Rock	4.40	<0.005	1.2	3.4	1.6	25	<0.1	1.8	4.0	366	1.51	<0.5	1.0	9.4	34	<0.1	<0.1	<0.1	17	0.96
1540963	Rock	4.70	<0.005	1.6	4.9	3.3	34	<0.1	1.7	4.4	456	1.65	<0.5	0.5	9.9	53	<0.1	<0.1	<0.1	20	1.27
1540964	Rock	4.29	<0.005	1.5	5.1	2.0	36	<0.1	2.0	4.4	423	1.78	<0.5	<0.5	12.8	47	<0.1	<0.1	<0.1	22	0.64
1540965	Rock	4.89	<0.005	1.2	12.1	2.4	34	<0.1	2.6	5.1	456	1.87	<0.5	0.6	8.5	49	<0.1	<0.1	<0.1	31	0.77
1540966	Rock	4.33	<0.005	1.2	10.0	2.4	40	<0.1	4.0	6.7	531	2.00	<0.5	<0.5	7.6	75	<0.1	<0.1	<0.1	30	1.17
1540967	Rock	3.93	<0.005	1.5	3.4	4.2	35	<0.1	1.8	4.9	531	1.93	<0.5	<0.5	11.1	104	<0.1	<0.1	<0.1	23	1.76
1540968	Rock	4.19	<0.005	1.3	7.8	2.2	37	<0.1	3.2	6.2	541	2.02	<0.5	<0.5	6.8	53	<0.1	<0.1	<0.1	31	1.06
1540969	Rock	4.33	<0.005	1.8	3.2	2.6	35	<0.1	1.5	4.7	562	1.87	<0.5	<0.5	9.4	73	<0.1	<0.1	<0.1	27	1.17
1540970	Rock	4.22	<0.005	1.3	3.8	3.3	34	<0.1	2.0	4.3	533	1.68	<0.5	<0.5	9.7	67	<0.1	<0.1	<0.1	23	1.34
1540971	Rock	4.17	<0.005	1.3	3.4	3.7	30	<0.1	1.6	3.8	519	1.61	<0.5	<0.5	9.7	101	<0.1	<0.1	<0.1	15	1.99



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Method Analyte Unit MDL	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	
1540942	Rock	0.038	23	6	0.33	65	0.037	<20	0.75	0.031	0.28	0.2	<0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
1540943	Rock	0.034	27	5	0.44	87	0.084	<20	1.03	0.033	0.48	0.5	<0.01	4.4	0.1	<0.05	6	<0.5	<0.2
1540944	Rock	0.036	28	6	0.34	291	0.083	<20	0.90	0.009	0.46	0.4	<0.01	4.5	0.2	<0.05	5	<0.5	<0.2
1540945	Rock	0.035	29	5	0.32	142	0.067	<20	0.89	0.026	0.42	0.2	<0.01	4.1	0.1	<0.05	4	<0.5	<0.2
1540946	Rock	0.033	24	5	0.35	95	0.080	<20	0.87	0.027	0.46	0.4	<0.01	3.2	0.2	<0.05	4	<0.5	<0.2
1540947	Rock	0.033	25	7	0.35	85	0.085	<20	0.85	0.037	0.48	0.7	<0.01	2.9	0.2	<0.05	4	<0.5	<0.2
1540948	Rock	0.041	29	7	0.42	112	0.092	<20	0.92	0.041	0.51	0.6	<0.01	3.2	0.2	<0.05	4	<0.5	<0.2
1540949	Rock	0.033	26	7	0.41	68	0.071	<20	0.85	0.038	0.36	0.6	<0.01	3.3	0.1	<0.05	5	<0.5	<0.2
1540950	Rock	0.035	27	8	0.42	95	0.094	<20	0.90	0.040	0.48	0.5	<0.01	3.4	0.1	<0.05	4	<0.5	<0.2
1540951	Rock	0.036	26	9	0.47	109	0.107	<20	0.96	0.038	0.54	0.6	<0.01	3.5	0.2	<0.05	4	<0.5	<0.2
1540952	Rock	0.042	26	8	0.51	160	0.128	<20	1.05	0.040	0.62	0.6	<0.01	3.8	0.2	<0.05	5	<0.5	<0.2
1540953	Rock	0.034	34	8	0.41	132	0.115	<20	0.98	0.031	0.57	0.7	<0.01	3.7	0.2	<0.05	5	<0.5	<0.2
1540954	Rock	0.039	23	8	0.51	137	0.131	<20	1.05	0.039	0.64	0.8	<0.01	4.2	0.2	<0.05	5	<0.5	<0.2
1540955	Rock	0.044	23	9	0.59	137	0.147	<20	1.13	0.038	0.77	1.1	<0.01	3.5	0.3	<0.05	5	<0.5	<0.2
1540956	Rock	0.037	26	8	0.40	142	0.094	<20	0.92	0.027	0.53	0.9	<0.01	3.7	0.2	<0.05	4	<0.5	<0.2
1540957	Rock	0.029	22	9	0.31	78	0.084	<20	0.76	0.036	0.44	0.8	<0.01	3.5	0.1	<0.05	4	<0.5	<0.2
1540958	Rock	0.033	38	7	0.35	112	0.101	<20	0.85	0.034	0.48	0.7	<0.01	3.9	0.1	<0.05	4	<0.5	<0.2
1540959	Rock	0.038	24	8	0.38	100	0.092	<20	0.86	0.029	0.49	0.5	<0.01	4.1	0.1	<0.05	4	<0.5	<0.2
1540960	Rock	0.019	6	5	9.44	34	0.022	<20	0.29	0.007	0.12	0.3	0.01	1.4	<0.1	<0.05	1	<0.5	<0.2
1540961	Rock	0.036	31	9	0.66	123	0.126	<20	1.10	0.037	0.65	0.6	<0.01	4.3	0.2	<0.05	6	<0.5	<0.2
1540962	Rock	0.025	30	8	0.28	76	0.071	<20	0.71	0.032	0.37	0.5	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
1540963	Rock	0.032	36	7	0.25	83	0.063	<20	0.69	0.032	0.35	0.5	<0.01	2.7	0.1	<0.05	4	<0.5	<0.2
1540964	Rock	0.029	42	9	0.37	98	0.125	<20	0.85	0.042	0.52	1.2	<0.01	3.0	0.2	<0.05	5	<0.5	<0.2
1540965	Rock	0.038	23	11	0.55	106	0.092	<20	0.96	0.040	0.45	0.7	<0.01	2.8	0.1	<0.05	4	<0.5	<0.2
1540966	Rock	0.037	23	11	0.52	89	0.095	<20	0.95	0.034	0.46	0.8	<0.01	3.3	0.1	<0.05	5	<0.5	<0.2
1540967	Rock	0.031	30	8	0.33	50	0.043	<20	0.74	0.039	0.26	0.4	<0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
1540968	Rock	0.038	17	10	0.50	82	0.085	<20	0.94	0.035	0.46	0.7	<0.01	3.5	0.1	<0.05	5	<0.5	<0.2
1540969	Rock	0.029	28	9	0.38	117	0.115	<20	0.83	0.040	0.48	0.9	<0.01	4.0	0.2	<0.05	5	<0.5	<0.2
1540970	Rock	0.030	24	7	0.24	47	0.056	<20	0.59	0.034	0.30	0.6	<0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
1540971	Rock	0.032	29	8	0.20	74	0.026	<20	0.53	0.026	0.22	0.2	<0.01	3.2	<0.1	<0.05	3	<0.5	<0.2



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Project: LOO
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CERTIFICATE OF ANALYSIS

WHI17000269.1

Method	Analyte	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540972	Rock	4.01	<0.005	1.2	2.4	4.9	38	<0.1	2.4	4.6	442	1.69	0.8	<0.5	9.1	84	<0.1	<0.1	<0.1	21	1.67
1540973	Rock	4.04	<0.005	1.3	3.3	4.5	38	<0.1	1.5	4.5	570	1.92	<0.5	<0.5	9.2	93	<0.1	<0.1	<0.1	24	1.76
1540974	Rock	3.70	<0.005	1.3	3.2	3.2	38	<0.1	2.0	4.2	491	1.68	<0.5	0.6	9.1	59	<0.1	<0.1	<0.1	22	1.26
1540975	Rock	4.62	<0.005	1.4	5.5	2.2	36	<0.1	2.2	5.2	502	1.76	<0.5	<0.5	9.0	47	<0.1	<0.1	<0.1	21	1.08
1540976	Rock	3.68	<0.005	2.1	5.8	4.5	37	<0.1	1.8	4.5	532	1.81	<0.5	<0.5	11.3	103	<0.1	<0.1	<0.1	22	2.11
1540977	Rock	3.35	<0.005	0.9	9.6	3.2	41	<0.1	2.0	8.1	868	2.67	<0.5	<0.5	7.5	179	<0.1	<0.1	<0.1	52	3.17
1540978	Rock	3.51	<0.005	1.0	28.8	2.2	66	<0.1	1.8	16.3	863	4.02	0.6	<0.5	1.7	526	<0.1	<0.1	<0.1	116	2.08
1540979	Rock	3.88	<0.005	1.2	33.0	2.5	78	<0.1	2.2	18.9	857	4.26	0.6	<0.5	1.7	145	<0.1	<0.1	<0.1	137	1.57
1540980	Rock Pulp	0.08	0.503	6.2	283.4	15.6	52	0.6	110.2	14.9	411	2.73	162.1	389.3	3.4	81	0.3	1.3	0.1	65	1.72
1540981	Rock	4.75	<0.005	1.2	30.5	3.1	83	<0.1	2.5	18.7	853	4.28	<0.5	<0.5	1.5	136	<0.1	<0.1	<0.1	138	1.35
1540982	Rock	3.21	<0.005	1.0	33.0	2.4	77	<0.1	1.9	17.4	827	4.59	1.1	<0.5	1.8	121	<0.1	<0.1	<0.1	155	1.20
1540983	Rock	3.73	<0.005	1.4	24.1	1.8	67	<0.1	2.4	14.9	834	3.73	0.7	<0.5	1.6	145	<0.1	<0.1	<0.1	122	1.33
1540984	Rock	3.80	<0.005	1.2	21.4	1.7	64	<0.1	2.3	15.3	983	3.90	<0.5	<0.5	4.6	119	<0.1	<0.1	<0.1	115	1.58
1540985	Rock	4.05	<0.005	1.4	14.9	1.6	56	<0.1	2.5	8.4	611	2.63	<0.5	<0.5	8.3	60	<0.1	<0.1	<0.1	57	0.73
1540986	Rock	3.15	<0.005	1.7	10.3	4.5	46	<0.1	4.3	3.5	474	1.56	0.6	0.6	13.7	7	<0.1	0.1	0.3	15	0.12
1540987	Rock	5.01	<0.005	0.9	6.6	2.2	29	<0.1	2.9	2.6	401	1.32	<0.5	<0.5	9.3	8	<0.1	<0.1	0.1	11	0.57
1540988	Rock	5.43	<0.005	0.7	3.0	1.5	37	<0.1	2.5	2.8	422	1.37	<0.5	0.7	10.8	12	<0.1	<0.1	<0.1	11	0.65
1540989	Rock	3.53	<0.005	1.2	4.4	2.6	43	<0.1	3.1	2.5	405	1.32	<0.5	<0.5	12.1	21	<0.1	<0.1	0.1	11	0.68
1540990	Rock	3.46	<0.005	1.2	7.9	2.8	37	<0.1	2.2	2.5	419	1.35	<0.5	<0.5	14.3	15	<0.1	<0.1	<0.1	10	0.36
1540991	Rock	3.52	<0.005	1.0	3.2	4.5	33	<0.1	2.1	2.7	513	1.38	<0.5	<0.5	12.4	31	<0.1	<0.1	<0.1	10	1.57
1540992	Rock	3.25	<0.005	1.6	3.1	3.2	27	<0.1	1.5	2.5	418	1.30	<0.5	<0.5	12.0	33	<0.1	<0.1	<0.1	12	1.21
1540993	Rock	3.53	<0.005	2.1	5.7	3.1	28	<0.1	2.3	2.8	518	1.47	<0.5	<0.5	12.0	37	<0.1	<0.1	<0.1	12	1.09
1540994	Rock	2.01	<0.005	1.5	7.2	2.5	36	<0.1	2.3	4.3	481	1.57	<0.5	<0.5	14.5	24	<0.1	<0.1	<0.1	14	0.50
1540995	Rock	2.11	<0.005	1.4	4.8	2.4	28	<0.1	1.9	3.2	476	1.54	<0.5	<0.5	11.1	27	<0.1	<0.1	<0.1	14	0.79



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CERTIFICATE OF ANALYSIS

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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2	
1540972	Rock	0.031	26	8	0.21	92	0.040	<20	0.58	0.034	0.25	0.3	<0.01	3.4	<0.1	<0.05	3	<0.5	<0.2
1540973	Rock	0.029	27	8	0.45	188	0.085	<20	0.74	0.038	0.40	0.4	<0.01	3.8	0.1	<0.05	4	<0.5	<0.2
1540974	Rock	0.027	24	7	0.39	85	0.080	<20	0.77	0.033	0.42	0.7	<0.01	3.2	0.1	<0.05	5	<0.5	<0.2
1540975	Rock	0.032	25	8	0.34	79	0.066	<20	0.77	0.037	0.37	0.6	<0.01	3.1	0.1	<0.05	4	<0.5	<0.2
1540976	Rock	0.033	29	8	0.24	79	0.051	<20	0.65	0.028	0.28	0.4	<0.01	4.5	<0.1	<0.05	4	<0.5	<0.2
1540977	Rock	0.072	24	7	0.65	219	0.059	<20	1.16	0.029	0.41	0.2	<0.01	5.3	<0.1	<0.05	5	<0.5	<0.2
1540978	Rock	0.167	5	6	1.66	879	0.203	<20	2.09	0.056	0.77	0.1	<0.01	8.1	0.1	0.23	7	<0.5	<0.2
1540979	Rock	0.182	6	8	2.02	948	0.247	<20	2.25	0.072	0.84	0.2	<0.01	7.6	0.2	0.22	8	<0.5	<0.2
1540980	Rock Pulp	0.029	8	98	1.37	109	0.100	<20	2.59	0.297	0.21	1.0	0.03	2.8	<0.1	0.10	6	<0.5	<0.2
1540981	Rock	0.214	5	8	2.22	1163	0.237	<20	2.21	0.077	0.74	0.2	<0.01	7.8	0.2	0.22	8	<0.5	<0.2
1540982	Rock	0.185	5	6	2.50	821	0.276	<20	2.35	0.056	0.86	0.2	<0.01	10.0	0.2	0.22	8	<0.5	<0.2
1540983	Rock	0.165	5	7	1.81	1177	0.229	<20	1.98	0.058	0.91	0.5	<0.01	7.5	0.1	0.13	6	<0.5	<0.2
1540984	Rock	0.156	16	9	1.65	1378	0.199	<20	2.11	0.036	1.16	0.5	<0.01	5.8	0.2	0.13	7	<0.5	<0.2
1540985	Rock	0.088	25	10	0.84	531	0.157	<20	1.36	0.042	0.84	0.9	<0.01	3.4	0.2	0.06	6	<0.5	<0.2
1540986	Rock	0.026	37	5	0.23	103	0.065	<20	0.71	0.032	0.34	0.6	0.01	3.4	0.1	<0.05	4	<0.5	<0.2
1540987	Rock	0.020	28	4	0.15	58	0.045	<20	0.49	0.033	0.29	0.9	<0.01	2.1	0.1	<0.05	3	<0.5	<0.2
1540988	Rock	0.021	27	4	0.20	71	0.057	<20	0.57	0.040	0.35	1.0	<0.01	2.8	0.1	<0.05	4	<0.5	<0.2
1540989	Rock	0.023	29	6	0.17	75	0.059	<20	0.54	0.038	0.33	0.9	<0.01	2.8	0.1	<0.05	4	<0.5	<0.2
1540990	Rock	0.024	31	4	0.18	90	0.060	<20	0.52	0.039	0.30	0.7	<0.01	2.8	0.1	<0.05	3	<0.5	<0.2
1540991	Rock	0.024	31	5	0.14	118	0.047	<20	0.51	0.026	0.25	0.5	<0.01	3.2	0.1	<0.05	3	<0.5	<0.2
1540992	Rock	0.023	30	4	0.17	69	0.052	<20	0.55	0.028	0.31	0.5	<0.01	3.0	0.1	<0.05	3	<0.5	<0.2
1540993	Rock	0.025	31	5	0.19	117	0.059	<20	0.58	0.033	0.32	0.5	0.01	3.0	0.1	<0.05	3	<0.5	<0.2
1540994	Rock	0.025	28	5	0.22	114	0.094	<20	0.68	0.043	0.42	1.1	<0.01	3.7	0.2	<0.05	5	<0.5	<0.2
1540995	Rock	0.027	30	5	0.21	87	0.065	<20	0.59	0.040	0.34	0.7	<0.01	2.7	0.1	<0.05	3	<0.5	<0.2



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QUALITY CONTROL REPORT

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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm		
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
1540904	Rock	4.21	0.052	3.3	18.0	5.3	34	<0.1	2.0	5.0	513	1.72	0.5	52.2	10.2	118	<0.1	<0.1	<0.1	14	2.88
REP 1540904	QC			3.2	17.3	5.4	36	<0.1	1.9	5.0	483	1.64	<0.5	22.4	9.3	116	<0.1	<0.1	<0.1	14	2.75
REP 1540912	QC	<0.005																			
1540933	Rock	4.11	<0.005	0.9	3.9	3.1	26	<0.1	2.3	2.6	355	1.14	<0.5	0.8	11.1	26	<0.1	<0.1	<0.1	12	1.19
REP 1540933	QC	<0.005																			
1540939	Rock	4.65	<0.005	1.0	6.5	3.1	53	<0.1	2.1	3.7	440	1.62	<0.5	0.9	7.2	41	<0.1	<0.1	<0.1	25	0.98
REP 1540939	QC			1.1	6.2	2.7	47	<0.1	2.1	3.5	432	1.62	<0.5	<0.5	7.3	38	<0.1	<0.1	<0.1	25	0.98
1540974	Rock	3.70	<0.005	1.3	3.2	3.2	38	<0.1	2.0	4.2	491	1.68	<0.5	0.6	9.1	59	<0.1	<0.1	<0.1	22	1.26
REP 1540974	QC			1.4	3.3	2.8	33	<0.1	1.7	3.7	475	1.64	<0.5	<0.5	8.4	53	<0.1	<0.1	<0.1	21	1.23
1540992	Rock	3.25	<0.005	1.6	3.1	3.2	27	<0.1	1.5	2.5	418	1.30	<0.5	<0.5	12.0	33	<0.1	<0.1	<0.1	12	1.21
REP 1540992	QC			1.8	3.5	3.4	31	<0.1	1.5	2.6	388	1.31	<0.5	<0.5	13.6	36	<0.1	<0.1	<0.1	11	1.22
Core Reject Duplicates																					
1540912	Rock	4.24	<0.005	1.8	13.9	4.6	43	<0.1	2.4	4.7	536	1.93	<0.5	0.6	8.4	60	<0.1	<0.1	<0.1	29	1.30
DUP 1540912	QC			<0.005	1.8	13.7	4.3	<0.1	2.5	4.7	569	1.96	<0.5	<0.5	7.6	57	<0.1	<0.1	<0.1	30	1.32
1540946	Rock	4.24	<0.005	1.3	5.7	3.5	54	<0.1	2.2	4.9	531	1.85	<0.5	1.2	8.8	57	<0.1	<0.1	<0.1	23	1.40
DUP 1540946	QC			<0.005	1.2	4.8	3.4	<0.1	2.0	5.6	570	1.94	<0.5	1.4	8.5	54	<0.1	<0.1	<0.1	24	1.44
Reference Materials																					
STD DS10	Standard			13.6	170.2	157.9	408	2.0	75.5	13.3	878	2.81	50.0	75.2	7.5	83	3.1	8.4	14.5	44	1.08
STD DS10	Standard			15.2	173.9	156.5	387	1.8	79.8	13.0	842	2.74	47.9	84.8	8.0	64	2.4	7.1	11.9	43	1.06
STD DS10	Standard			13.7	142.7	142.2	336	1.8	73.1	12.6	875	2.68	44.0	87.1	6.6	70	2.6	7.8	11.4	44	1.03
STD DS10	Standard			11.8	147.7	144.8	331	1.9	75.4	14.1	912	2.68	37.5	66.3	6.8	55	2.2	6.8	11.0	42	1.03
STD DS10	Standard			14.2	155.5	148.1	340	2.1	74.8	12.4	863	2.71	46.1	59.2	8.2	70	2.6	7.0	12.8	45	1.07
STD DS11	Standard			14.3	152.7	134.9	336	1.7	81.3	13.0	1074	3.17	46.0	78.1	7.8	72	2.7	7.2	12.8	51	1.06
STD OREAS45EA	Standard			1.3	679.7	14.1	30	0.3	359.5	47.0	375	20.63	10.0	54.0	9.7	4	<0.1	0.3	0.3	291	0.03
STD OREAS45EA	Standard			1.4	681.2	14.6	30	0.3	362.7	49.1	347	20.52	9.1	56.5	9.9	4	<0.1	0.3	0.3	291	0.03
STD OREAS45EA	Standard			1.8	683.6	13.8	30	0.3	362.3	52.8	373	20.46	11.7	59.1	10.0	4	<0.1	0.3	0.3	293	0.03
STD OREAS45EA	Standard			1.5	688.6	13.5	30	0.2	362.6	51.8	395	21.36	8.9	49.5	10.2	3	<0.1	0.3	0.2	298	0.03
STD OREAS45EA	Standard			1.6	707.0	14.5	32	0.3	360.5	51.3	387	21.30	11.4	53.2	10.7	4	<0.1	0.3	0.3	303	0.03



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QUALITY CONTROL REPORT

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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																			
1540904	Rock	0.042	26	7	0.27	71	0.005	<20	0.42	0.024	0.19	0.2	<0.01	2.6	<0.1	<0.05	2	<0.5	<0.2
REP 1540904	QC	0.037	24	7	0.26	70	0.004	<20	0.40	0.022	0.18	0.3	<0.01	2.3	<0.1	<0.05	2	<0.5	<0.2
REP 1540912	QC																		
1540933	Rock	0.025	29	5	0.14	72	0.039	<20	0.54	0.026	0.25	0.4	<0.01	2.7	0.1	<0.05	3	<0.5	<0.2
REP 1540933	QC																		
1540939	Rock	0.038	20	5	0.37	95	0.069	<20	0.86	0.038	0.41	0.5	<0.01	2.5	0.1	<0.05	5	<0.5	<0.2
REP 1540939	QC	0.035	20	6	0.37	96	0.074	<20	0.85	0.037	0.41	0.4	<0.01	2.7	0.1	<0.05	5	<0.5	<0.2
1540974	Rock	0.027	24	7	0.39	85	0.080	<20	0.77	0.033	0.42	0.7	<0.01	3.2	0.1	<0.05	5	<0.5	<0.2
REP 1540974	QC	0.030	24	9	0.38	85	0.084	<20	0.75	0.031	0.41	0.6	<0.01	3.0	0.1	<0.05	4	<0.5	<0.2
1540992	Rock	0.023	30	4	0.17	69	0.052	<20	0.55	0.028	0.31	0.5	<0.01	3.0	0.1	<0.05	3	<0.5	<0.2
REP 1540992	QC	0.025	29	3	0.15	72	0.056	<20	0.55	0.028	0.31	0.7	<0.01	3.5	0.2	<0.05	4	<0.5	<0.2
Core Reject Duplicates																			
1540912	Rock	0.035	23	11	0.46	152	0.102	<20	0.93	0.033	0.52	0.7	<0.01	4.7	0.1	<0.05	5	<0.5	<0.2
DUP 1540912	QC	0.038	24	13	0.46	179	0.097	<20	0.94	0.034	0.52	0.6	<0.01	4.1	0.1	<0.05	4	<0.5	<0.2
1540946	Rock	0.033	24	5	0.35	95	0.080	<20	0.87	0.027	0.46	0.4	<0.01	3.2	0.2	<0.05	4	<0.5	<0.2
DUP 1540946	QC	0.035	26	6	0.36	107	0.080	<20	0.95	0.033	0.48	0.4	<0.01	3.3	0.2	<0.05	5	<0.5	<0.2
Reference Materials																			
STD DS10	Standard	0.066	17	54	0.79	402	0.082	<20	1.06	0.068	0.34	3.1	0.29	3.1	5.3	0.29	5	2.5	4.8
STD DS10	Standard	0.067	17	51	0.77	378	0.086	<20	1.04	0.066	0.33	3.5	0.31	2.6	4.9	0.29	5	2.0	5.2
STD DS10	Standard	0.077	18	63	0.75	412	0.088	<20	1.01	0.063	0.33	3.8	0.29	2.8	4.6	0.29	4	1.9	4.9
STD DS10	Standard	0.077	17	56	0.75	398	0.074	<20	0.98	0.061	0.32	2.8	0.28	2.4	5.2	0.27	4	2.0	4.4
STD DS10	Standard	0.079	19	59	0.77	414	0.085	<20	1.04	0.069	0.34	3.0	0.27	3.0	5.1	0.29	4	2.6	4.8
STD DS11	Standard	0.071	19	60	0.85	438	0.097	<20	1.14	0.070	0.40	2.6	0.27	3.6	5.1	0.29	5	2.4	4.7
STD OREAS45EA	Standard	0.025	7	770	0.09	127	0.090	<20	3.15	0.023	0.05	<0.1	<0.01	75.0	<0.1	<0.05	11	0.9	<0.2
STD OREAS45EA	Standard	0.028	7	700	0.09	122	0.092	<20	3.18	0.023	0.05	<0.1	0.01	65.6	<0.1	<0.05	13	0.9	<0.2
STD OREAS45EA	Standard	0.027	7	857	0.10	142	0.110	<20	3.16	0.022	0.05	<0.1	<0.01	81.4	<0.1	<0.05	12	0.9	<0.2
STD OREAS45EA	Standard	0.029	7	832	0.09	141	0.098	<20	3.13	0.025	0.05	<0.1	<0.01	67.7	<0.1	<0.05	12	0.5	<0.2
STD OREAS45EA	Standard	0.028	7	837	0.10	151	0.099	<20	3.35	0.025	0.05	<0.1	0.01	76.7	<0.1	<0.05	13	0.6	<0.2



Bureau Veritas Commodities Canada Ltd.
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Project: LOO
Report Date: August 08, 2017

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Part: 1 of 2

QUALITY CONTROL REPORT

WHI17000269.1

	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
STD OXC145	Standard	0.202																			
STD OXC145	Standard	0.210																			
STD OXC145	Standard	0.207																			
STD OXH122	Standard	1.213																			
STD OXH122	Standard	1.248																			
STD OXH122	Standard	1.225																			
STD OXN117	Standard	7.685																			
STD OXN117	Standard	7.600																			
STD OXN117	Standard	7.699																			
STD OXN117 Expected		7.679																			
STD OXC145 Expected		0.212																			
STD OXH122 Expected		1.247																			
STD DS10 Expected			13.6	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	
STD OREAS45EA Expected			1.6	709	14.3	31.4	0.26	381	52	400	23.51	10.3	53	10.7	3.5	0.03	0.32	0.26	303	0.036	
STD DS11 Expected			13.9	156	138	345	1.71	81.9	14.2	1055	3.2082	42.8	79	7.65	67.3	2.37	7.2	12.2	50	1.063	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
Prep Wash																					
ROCK-WHI	Prep Blank	<0.005	0.9	3.4	1.2	33	<0.1	1.2	3.6	481	1.62	0.7	1.0	2.4	24	<0.1	<0.1	<0.1	21	0.50	
ROCK-WHI	Prep Blank	<0.005	0.9	4.2	1.1	32	<0.1	1.3	3.8	522	1.69	<0.5	<0.5	2.1	20	<0.1	<0.1	<0.1	23	0.50	



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Project: LOO
Report Date: August 08, 2017

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QUALITY CONTROL REPORT

WHI17000269.1

		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200		
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
STD OXC145	Standard																			
STD OXC145	Standard																			
STD OXC145	Standard																			
STD OXH122	Standard																			
STD OXH122	Standard																			
STD OXH122	Standard																			
STD OXH122	Standard																			
STD OXN117	Standard																			
STD OXN117	Standard																			
STD OXN117	Standard																			
STD OXN117	Standard																			
STD OXN117 Expected																				
STD OXC145 Expected																				
STD OXH122 Expected																				
STD DS10 Expected		0.0765	17.5	54.6	0.775	412	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3	2.3	5.01	
STD OREAS45EA Expected		0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053			78	0.072	0.036	12.4	0.78	0.07	
STD DS11 Expected		0.0701	18.6	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	0.3	3.1	4.9	0.2835	4.7	1.9	4.56	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
Prep Wash																				
ROCK-WHI	Prep Blank	0.036	6	5	0.44	55	0.078	<20	0.80	0.069	0.08	<0.1	<0.01	2.7	<0.1	<0.05	3	<0.5	<0.2	
ROCK-WHI	Prep Blank	0.039	6	5	0.47	49	0.078	<20	0.83	0.074	0.08	<0.1	<0.01	2.7	<0.1	<0.05	3	<0.5	<0.2	



BUREAU VERITAS MINERAL LABORATORIES
Canada

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Client: **White Gold Corp.**
Box 70
Dawson Yukon Y0B 1G0 Canada

Submitted By: Jodie Gibson
Receiving Lab: Canada-Whitehorse
Received: June 21, 2017
Report Date: July 08, 2017
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CERTIFICATE OF ANALYSIS

WHI17000127.1

CLIENT JOB INFORMATION

Project: LOO
Shipment ID: LOO-20170619-001-ROCK
P.O. Number
Number of Samples: 138

SAMPLE DISPOSAL

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

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

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

CC: Isaac Fage
Shawn Ryan

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	132	Crush, split and pulverize 250 g rock to 200 mesh			WHI
SLBHP	6	Sort, label and box pulps			WHI
FA430	138	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	138	Environmental disposal charge-Fire assay lead waste			VAN
AQ200	138	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	138	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



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



Bureau Veritas Commodities Canada Ltd.

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Project: LOO
Report Date: July 08, 2017

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CERTIFICATE OF ANALYSIS

WHI17000127.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540001	Rock	3.34	<0.005	1.8	9.2	2.8	66	<0.1	2.0	12.5	1102	3.79	<0.5	<0.5	5.0	55	<0.1	<0.1	<0.1	88	2.06
1540002	Rock	3.66	<0.005	1.9	7.8	2.0	39	<0.1	2.0	4.5	597	1.70	<0.5	<0.5	11.5	37	<0.1	<0.1	<0.1	20	1.32
1540003	Rock	4.42	<0.005	1.3	3.2	1.9	44	<0.1	2.0	4.9	511	1.94	<0.5	0.6	9.4	28	<0.1	<0.1	<0.1	27	0.82
1540004	Rock	3.81	<0.005	1.3	3.5	3.1	48	<0.1	2.0	4.9	526	1.98	0.6	<0.5	9.0	37	<0.1	<0.1	<0.1	28	1.15
1540005	Rock	3.34	<0.005	1.2	3.2	2.8	39	<0.1	1.9	4.4	501	1.78	<0.5	<0.5	11.0	35	<0.1	<0.1	<0.1	20	1.08
1540006	Rock	3.73	<0.005	1.1	2.8	3.2	41	<0.1	1.8	5.3	552	2.00	<0.5	1.4	9.6	44	<0.1	<0.1	<0.1	24	1.13
1540007	Rock	3.22	0.006	1.4	10.2	3.9	52	<0.1	6.2	8.9	702	2.42	<0.5	<0.5	9.2	55	<0.1	<0.1	0.1	46	2.06
1540008	Rock	3.30	<0.005	1.4	2.0	2.5	41	<0.1	2.5	5.3	511	2.00	<0.5	<0.5	10.7	26	<0.1	<0.1	<0.1	26	0.50
1540009	Rock	3.82	<0.005	1.3	1.6	1.8	43	<0.1	2.1	5.5	551	2.05	<0.5	<0.5	9.6	33	<0.1	<0.1	<0.1	28	0.69
1540010	Rock	3.27	<0.005	1.3	4.7	1.2	34	<0.1	2.9	5.8	440	2.15	<0.5	<0.5	9.2	31	<0.1	<0.1	<0.1	28	1.24
1540011	Rock	3.73	<0.005	1.9	2.8	1.4	35	<0.1	1.7	5.3	497	2.38	<0.5	<0.5	9.2	35	<0.1	<0.1	<0.1	27	1.73
1540012	Rock	3.02	<0.005	1.6	3.7	2.6	42	<0.1	1.6	4.8	655	2.28	<0.5	<0.5	8.9	73	<0.1	<0.1	<0.1	26	2.06
1540013	Rock	3.00	<0.005	1.5	8.8	1.8	37	<0.1	1.8	4.6	554	2.15	<0.5	<0.5	10.3	41	<0.1	<0.1	<0.1	26	1.24
1540014	Rock	3.76	<0.005	1.3	3.8	2.6	39	<0.1	1.7	4.4	514	1.89	<0.5	<0.5	11.1	57	<0.1	<0.1	<0.1	22	1.15
1540015	Rock	3.14	0.006	1.4	3.2	3.9	42	<0.1	1.6	4.7	552	1.99	<0.5	<0.5	11.8	60	<0.1	0.1	<0.1	22	1.60
1540016	Rock	2.90	<0.005	1.2	15.1	2.7	35	<0.1	1.7	4.5	533	1.83	<0.5	<0.5	11.3	42	<0.1	<0.1	<0.1	19	1.30
1540017	Rock	3.61	0.006	1.7	57.5	2.7	37	0.1	1.9	3.8	496	1.68	<0.5	1.8	11.4	37	<0.1	<0.1	<0.1	13	1.26
1540018	Rock	3.25	<0.005	1.5	5.6	2.9	41	<0.1	1.8	4.2	542	1.83	<0.5	<0.5	10.1	48	<0.1	<0.1	<0.1	20	1.30
1540019	Rock	3.01	0.013	3.3	37.3	5.6	30	0.1	1.3	3.5	509	1.47	<0.5	12.0	10.5	85	<0.1	<0.1	0.3	9	2.65
1540020	Rock Pulp	0.09	0.562	6.5	280.5	16.0	51	0.7	112.6	15.0	455	2.82	174.1	336.9	3.4	82	0.2	1.5	0.1	65	1.79
1540021	Rock	3.09	0.006	10.8	19.3	6.1	32	<0.1	1.4	4.4	484	1.68	2.6	0.5	9.6	62	0.1	0.2	0.1	11	2.44
1540022	Rock	3.62	0.005	7.6	67.2	8.7	42	0.1	1.8	5.1	576	1.85	0.7	1.8	9.1	92	0.2	0.1	0.2	15	2.31
1540023	Rock	3.10	<0.005	9.0	36.0	14.4	56	0.1	1.7	4.5	657	1.92	<0.5	<0.5	8.5	109	0.2	<0.1	0.2	20	2.94
1540024	Rock	3.49	<0.005	8.6	10.2	8.3	45	<0.1	1.5	4.7	569	1.85	0.9	<0.5	8.9	86	0.2	<0.1	0.1	18	2.64
1540025	Rock	3.10	<0.005	8.0	18.7	8.2	43	<0.1	1.7	4.7	588	2.01	<0.5	<0.5	8.4	90	0.1	0.1	0.2	21	2.16
1540026	Rock	3.59	<0.005	11.7	50.0	6.6	38	0.2	2.0	3.9	373	1.63	<0.5	<0.5	9.0	43	0.1	<0.1	1.1	18	1.70
1540027	Rock	3.38	<0.005	16.8	8.8	13.3	51	0.2	1.7	5.8	827	1.91	4.0	1.0	8.5	121	0.1	0.2	1.2	24	2.64
1540028	Rock	3.29	<0.005	12.0	6.3	6.6	40	0.1	1.7	4.2	473	1.87	1.5	<0.5	9.1	66	0.1	0.2	1.7	18	1.36
1540029	Rock	3.67	<0.005	5.8	9.6	7.7	42	<0.1	1.6	4.8	506	1.89	1.1	<0.5	8.4	107	<0.1	0.2	0.4	23	2.33
1540030	Rock	3.21	<0.005	13.0	8.9	11.0	53	0.2	3.1	5.6	776	2.17	1.4	<0.5	6.9	134	0.1	0.1	1.6	30	3.36



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Project: LOO
Report Date: July 08, 2017

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
MDL		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
1540001	Rock	0.064	19	5	1.07	377	0.207	<20	1.85	0.033	1.20	0.3	<0.01	12.7	0.2	<0.05	7	<0.5	<0.2	
1540002	Rock	0.030	30	6	0.34	114	0.079	<20	0.81	0.035	0.45	0.8	<0.01	3.4	0.2	<0.05	4	<0.5	<0.2	
1540003	Rock	0.035	30	7	0.40	134	0.118	<20	1.00	0.055	0.59	0.9	<0.01	4.8	0.2	<0.05	5	<0.5	<0.2	
1540004	Rock	0.038	27	7	0.42	119	0.105	<20	0.95	0.045	0.55	0.8	<0.01	3.9	0.2	<0.05	5	<0.5	<0.2	
1540005	Rock	0.028	30	7	0.32	95	0.083	<20	0.77	0.041	0.43	0.8	<0.01	4.0	0.1	<0.05	5	<0.5	<0.2	
1540006	Rock	0.034	26	7	0.41	108	0.112	<20	0.88	0.044	0.54	1.0	<0.01	5.1	0.1	<0.05	5	<0.5	<0.2	
1540007	Rock	0.045	26	28	0.78	145	0.134	<20	1.33	0.029	0.81	0.8	<0.01	7.0	0.3	<0.05	6	<0.5	<0.2	
1540008	Rock	0.035	32	9	0.43	115	0.135	<20	0.93	0.055	0.63	1.6	<0.01	4.5	0.1	<0.05	5	<0.5	<0.2	
1540009	Rock	0.032	28	7	0.47	113	0.131	<20	0.98	0.049	0.63	1.0	<0.01	4.7	0.1	<0.05	5	<0.5	<0.2	
1540010	Rock	0.034	26	9	0.54	122	0.111	<20	1.01	0.035	0.61	0.6	<0.01	5.0	0.1	<0.05	5	<0.5	<0.2	
1540011	Rock	0.028	28	8	0.59	117	0.130	<20	1.00	0.050	0.70	0.8	<0.01	5.1	0.1	<0.05	5	<0.5	<0.2	
1540012	Rock	0.042	30	6	0.60	154	0.114	<20	1.13	0.036	0.69	0.6	<0.01	4.6	0.1	<0.05	6	<0.5	<0.2	
1540013	Rock	0.030	31	7	0.54	129	0.126	<20	1.05	0.046	0.68	0.7	<0.01	5.6	0.2	<0.05	6	<0.5	<0.2	
1540014	Rock	0.032	30	7	0.35	108	0.110	<20	0.95	0.033	0.53	0.7	<0.01	4.9	0.1	<0.05	5	<0.5	<0.2	
1540015	Rock	0.032	32	7	0.32	108	0.094	<20	0.84	0.032	0.48	0.6	<0.01	5.0	0.1	<0.05	4	<0.5	<0.2	
1540016	Rock	0.028	34	7	0.31	164	0.069	<20	0.78	0.035	0.40	0.6	<0.01	4.5	0.1	<0.05	4	<0.5	<0.2	
1540017	Rock	0.029	30	8	0.32	52	0.021	<20	0.69	0.039	0.20	0.4	<0.01	3.8	<0.1	<0.05	4	<0.5	<0.2	
1540018	Rock	0.032	28	7	0.36	80	0.074	<20	0.84	0.040	0.42	0.5	<0.01	4.6	0.2	<0.05	4	<0.5	<0.2	
1540019	Rock	0.027	27	6	0.17	79	0.014	<20	0.49	0.022	0.23	0.3	0.01	3.1	<0.1	<0.05	2	<0.5	<0.2	
1540020	Rock Pulp	0.032	9	107	1.40	128	0.109	<20	2.65	0.311	0.23	1.2	0.04	3.4	<0.1	0.10	6	<0.5	<0.2	
1540021	Rock	0.030	29	8	0.12	82	0.005	<20	0.37	0.024	0.19	0.3	0.01	3.8	<0.1	<0.05	2	<0.5	<0.2	
1540022	Rock	0.032	28	8	0.17	117	0.014	<20	0.46	0.018	0.19	0.4	<0.01	4.7	<0.1	<0.05	2	<0.5	<0.2	
1540023	Rock	0.028	26	6	0.61	225	0.043	<20	0.66	0.003	0.28	0.4	<0.01	4.4	<0.1	<0.05	3	<0.5	<0.2	
1540024	Rock	0.030	28	6	0.22	203	0.046	<20	0.69	0.017	0.32	0.4	<0.01	4.7	0.1	<0.05	3	<0.5	<0.2	
1540025	Rock	0.030	27	8	0.25	89	0.053	<20	0.66	0.028	0.32	0.6	<0.01	5.0	0.1	<0.05	3	<0.5	<0.2	
1540026	Rock	0.031	28	8	0.19	56	0.044	<20	0.64	0.011	0.31	0.5	<0.01	4.9	0.1	<0.05	3	<0.5	<0.2	
1540027	Rock	0.030	26	7	0.29	260	0.008	<20	0.47	0.007	0.18	0.3	<0.01	4.3	<0.1	<0.05	2	<0.5	<0.2	
1540028	Rock	0.029	29	8	0.15	210	0.005	<20	0.42	0.026	0.17	0.3	0.01	4.4	<0.1	<0.05	2	<0.5	<0.2	
1540029	Rock	0.031	26	8	0.44	154	0.004	<20	0.36	0.028	0.16	0.4	<0.01	3.8	<0.1	<0.05	2	<0.5	<0.2	
1540030	Rock	0.032	22	11	0.66	543	0.004	<20	0.37	0.022	0.17	0.4	<0.01	3.7	<0.1	<0.05	1	<0.5	<0.2	



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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	WGHT	FA430 Au ppm	AQ200 Mo ppm	AQ200 Cu ppm	AQ200 Pb ppm	AQ200 Zn ppm	AQ200 Ag ppm	AQ200 Ni ppm	AQ200 Co ppm	AQ200 Mn ppm	AQ200 Fe %	AQ200 As ppm	AQ200 Au ppb	AQ200 Th ppm	AQ200 Sr ppm	AQ200 Cd ppm	AQ200 Sb ppm	AQ200 Bi ppm	AQ200 V ppm	AQ200 Ca %	
1540031	Rock	3.78	<0.005	9.4	7.6	6.1	33	0.1	1.4	3.5	366	1.45	0.7	<0.5	9.4	64	<0.1	0.1	1.3	20	1.26
1540032	Rock	3.01	<0.005	2.8	5.8	6.4	40	<0.1	1.7	4.3	522	1.91	0.6	<0.5	9.1	94	<0.1	<0.1	0.2	23	1.99
1540033	Rock	2.61	<0.005	7.9	30.0	10.5	41	0.1	1.6	4.4	754	1.74	0.5	4.4	10.3	107	0.2	<0.1	2.4	17	2.38
1540034	Rock	2.87	<0.005	6.4	6.3	6.0	41	<0.1	2.4	4.6	577	2.01	1.3	<0.5	8.2	109	<0.1	0.1	0.2	24	2.05
1540035	Rock	3.29	<0.005	4.0	7.5	4.7	41	<0.1	2.6	6.0	578	2.22	1.8	<0.5	6.6	82	<0.1	0.1	0.1	28	1.92
1540036	Rock	3.64	<0.005	6.9	12.9	6.9	43	<0.1	3.7	6.5	657	2.34	0.7	<0.5	9.5	122	<0.1	0.1	0.1	34	3.00
1540037	Rock	3.12	<0.005	10.4	22.5	10.6	56	<0.1	2.9	6.9	945	2.48	1.1	<0.5	9.7	160	0.1	0.1	0.7	23	3.68
1540038	Rock	3.07	<0.005	3.1	9.2	9.3	37	<0.1	1.6	4.3	442	1.80	1.9	<0.5	8.6	92	<0.1	0.2	0.3	18	2.29
1540039	Rock	3.83	<0.005	2.3	13.9	11.2	41	0.2	2.0	5.1	707	2.08	2.1	<0.5	7.8	131	<0.1	0.2	0.5	15	3.62
1540040	Rock Pulp	0.13	<0.005	2.2	25.0	2.3	39	0.3	22.3	9.9	400	2.30	4.1	<0.5	1.0	37	0.2	0.3	<0.1	56	0.74
1540041	Rock	3.39	<0.005	2.9	10.8	5.8	38	<0.1	1.9	4.3	543	1.82	1.1	<0.5	9.6	82	<0.1	<0.1	0.2	15	2.03
1540042	Rock	3.18	<0.005	2.1	39.1	4.3	36	<0.1	2.2	4.5	434	1.80	0.6	<0.5	9.4	57	<0.1	0.1	1.1	20	1.05
1540043	Rock	2.86	<0.005	3.4	25.5	4.6	30	<0.1	2.0	3.9	498	1.68	<0.5	<0.5	9.4	56	<0.1	0.1	0.8	20	0.93
1540044	Rock	3.65	<0.005	3.7	7.4	4.1	39	<0.1	2.2	3.8	504	1.89	0.7	<0.5	9.5	57	<0.1	0.1	0.2	20	1.22
1540045	Rock	2.74	<0.005	3.8	7.4	4.1	37	<0.1	2.0	4.6	542	2.07	<0.5	<0.5	9.7	59	<0.1	0.1	<0.1	22	1.42
1540046	Rock	3.71	<0.005	5.1	5.0	3.5	39	<0.1	2.2	4.8	496	1.97	<0.5	<0.5	9.1	58	<0.1	0.2	<0.1	19	1.46
1540047	Rock	3.68	0.026	1.7	7.6	3.8	36	<0.1	5.1	3.8	442	1.60	0.7	23.8	12.6	13	<0.1	<0.1	<0.1	16	0.60
1540048	Rock	4.88	<0.005	1.2	4.4	3.4	33	<0.1	2.5	2.7	346	1.20	<0.5	<0.5	9.2	27	<0.1	<0.1	<0.1	11	1.91
1540049	Rock	4.65	0.006	1.5	3.1	4.6	38	<0.1	2.6	2.9	350	1.27	<0.5	<0.5	11.0	34	<0.1	<0.1	<0.1	10	2.44
1540050	Rock	1.74	<0.005	1.0	6.0	4.6	42	<0.1	1.7	2.3	482	1.00	<0.5	<0.5	13.0	48	<0.1	<0.1	<0.1	7	3.38
1540051	Rock	3.19	<0.005	1.0	6.3	3.7	31	<0.1	2.0	2.5	352	1.20	<0.5	<0.5	14.7	26	<0.1	<0.1	<0.1	10	1.67
1540052	Rock	2.02	<0.005	1.4	8.2	5.1	44	<0.1	2.0	3.7	502	1.56	1.3	<0.5	13.9	40	<0.1	<0.1	<0.1	14	2.58
1540053	Rock	0.33	<0.005	1.3	8.1	3.4	28	<0.1	2.5	2.8	329	1.18	2.9	<0.5	15.5	28	<0.1	<0.1	<0.1	9	1.56
1540054	Rock	2.30	0.012	1.5	9.6	4.1	27	<0.1	6.6	3.6	384	1.38	1.2	10.4	13.3	16	<0.1	<0.1	<0.1	13	0.55
1540055	Rock	4.38	0.009	0.9	9.4	4.1	25	<0.1	3.1	2.4	314	1.17	0.6	<0.5	14.5	35	<0.1	<0.1	<0.1	8	0.83
1540056	Rock	3.44	<0.005	1.4	4.8	9.5	23	<0.1	2.8	2.8	421	1.21	<0.5	<0.5	14.5	23	<0.1	<0.1	<0.1	9	0.94
1540057	Rock	2.70	<0.005	0.9	5.8	2.3	34	<0.1	2.4	2.4	378	1.23	<0.5	<0.5	15.8	20	<0.1	<0.1	<0.1	9	0.95
1540058	Rock	2.62	<0.005	0.6	8.9	3.1	32	<0.1	1.9	2.2	338	1.18	<0.5	<0.5	15.3	32	<0.1	<0.1	<0.1	9	1.22
1540059	Rock	2.74	<0.005	0.7	7.0	3.3	51	<0.1	2.6	3.3	540	1.75	<0.5	<0.5	7.5	37	<0.1	<0.1	<0.1	39	1.35
1540060	Rock Pulp	0.09	4.818	8.2	195.8	23.2	79	0.9	14.2	11.9	586	4.34	11.9	5356.4	2.9	74	0.2	4.5	0.5	103	0.95



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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
1540031	Rock	0.028	27	7	0.28	69	0.009	<20	0.41	0.025	0.18	0.3	<0.01	4.4	<0.1	<0.05	2	<0.5	<0.2
1540032	Rock	0.028	26	8	0.60	63	0.044	<20	0.63	0.014	0.28	0.4	<0.01	4.6	<0.1	<0.05	3	<0.5	<0.2
1540033	Rock	0.029	29	7	0.20	148	0.026	<20	0.54	0.007	0.22	0.4	<0.01	4.0	<0.1	<0.05	2	<0.5	<0.2
1540034	Rock	0.040	29	11	0.32	147	0.062	<20	0.74	0.008	0.34	0.7	<0.01	5.7	0.1	<0.05	4	<0.5	<0.2
1540035	Rock	0.036	30	10	0.35	141	0.080	<20	0.92	0.023	0.45	0.6	<0.01	5.0	0.1	<0.05	5	<0.5	<0.2
1540036	Rock	0.038	28	15	0.38	105	0.076	<20	0.83	0.022	0.40	0.5	<0.01	6.4	0.1	<0.05	4	<0.5	<0.2
1540037	Rock	0.032	31	12	0.27	255	0.047	<20	0.80	0.013	0.34	0.4	<0.01	5.3	0.2	<0.05	3	<0.5	<0.2
1540038	Rock	0.028	24	9	0.46	45	0.017	<20	0.51	0.009	0.20	0.4	0.02	4.0	<0.1	<0.05	2	<0.5	<0.2
1540039	Rock	0.025	22	10	0.84	92	0.004	<20	0.38	0.016	0.17	0.5	0.03	2.7	<0.1	<0.05	1	<0.5	<0.2
1540040	Rock Pulp	0.059	4	29	0.74	85	0.126	<20	1.45	0.071	0.13	12.5	<0.01	4.6	<0.1	<0.05	4	<0.5	<0.2
1540041	Rock	0.029	23	10	0.33	47	0.016	<20	0.52	0.031	0.21	0.5	<0.01	3.3	<0.1	<0.05	2	<0.5	<0.2
1540042	Rock	0.034	28	11	0.31	49	0.047	<20	0.64	0.030	0.30	0.7	<0.01	4.4	<0.1	<0.05	3	<0.5	<0.2
1540043	Rock	0.030	26	9	0.24	65	0.038	<20	0.61	0.027	0.25	0.4	<0.01	4.7	<0.1	<0.05	3	<0.5	<0.2
1540044	Rock	0.029	28	9	0.33	89	0.068	<20	0.78	0.025	0.36	0.5	<0.01	4.7	0.1	<0.05	4	<0.5	<0.2
1540045	Rock	0.034	28	10	0.22	70	0.056	<20	0.70	0.033	0.32	0.6	<0.01	5.4	0.1	<0.05	3	<0.5	<0.2
1540046	Rock	0.029	24	11	0.26	60	0.053	<20	0.64	0.041	0.31	0.7	<0.01	4.4	<0.1	<0.05	3	<0.5	<0.2
1540047	Rock	0.024	28	9	0.15	99	0.038	<20	0.70	0.009	0.26	0.7	0.02	3.1	<0.1	<0.05	3	<0.5	<0.2
1540048	Rock	0.016	19	5	0.08	191	0.016	<20	0.47	0.002	0.15	0.8	<0.01	2.3	<0.1	<0.05	2	<0.5	<0.2
1540049	Rock	0.013	24	6	0.07	106	0.008	<20	0.46	0.003	0.12	0.9	<0.01	1.6	<0.1	<0.05	2	<0.5	<0.2
1540050	Rock	0.014	24	5	0.09	94	0.018	<20	0.51	0.002	0.17	0.7	<0.01	1.7	<0.1	<0.05	2	<0.5	<0.2
1540051	Rock	0.016	29	5	0.08	121	0.018	<20	0.54	0.002	0.16	0.6	0.01	2.2	<0.1	<0.05	2	<0.5	<0.2
1540052	Rock	0.015	30	4	0.07	155	0.011	<20	0.43	0.002	0.12	0.8	<0.01	2.4	<0.1	<0.05	2	<0.5	<0.2
1540053	Rock	0.016	28	8	0.08	180	0.019	<20	0.63	0.002	0.17	1.1	<0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
1540054	Rock	0.019	27	10	0.12	131	0.031	<20	0.69	0.016	0.22	0.5	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
1540055	Rock	0.013	26	7	0.12	76	0.034	<20	0.64	0.036	0.26	0.8	<0.01	1.8	0.1	<0.05	3	<0.5	<0.2
1540056	Rock	0.017	29	5	0.12	91	0.033	<20	0.62	0.005	0.26	1.1	<0.01	2.1	0.1	<0.05	3	<0.5	<0.2
1540057	Rock	0.016	31	6	0.17	85	0.039	<20	0.68	0.033	0.30	0.8	<0.01	2.2	0.1	<0.05	3	<0.5	<0.2
1540058	Rock	0.023	27	5	0.13	87	0.025	<20	0.54	0.028	0.25	0.8	<0.01	1.3	<0.1	<0.05	3	<0.5	<0.2
1540059	Rock	0.038	13	8	0.39	240	0.113	<20	1.18	0.021	0.61	0.7	<0.01	2.4	0.2	<0.05	6	<0.5	<0.2
1540060	Rock Pulp	0.060	8	19	0.89	131	0.160	<20	1.80	0.190	0.24	5.1	0.18	3.7	<0.1	<0.05	5	<0.5	<0.2



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Client: **White Gold Corp.**
Box 70
Dawson Yukon Y0B 1G0 Canada

Project: LOO
Report Date: July 08, 2017

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CERTIFICATE OF ANALYSIS

WHI17000127.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540061	Rock	2.91	<0.005	1.0	5.9	4.0	44	<0.1	2.7	3.8	501	1.66	<0.5	<0.5	9.2	31	<0.1	<0.1	<0.1	27	1.86
1540062	Rock	2.66	<0.005	0.7	7.1	2.5	18	<0.1	2.5	2.6	256	1.15	<0.5	<0.5	15.5	21	<0.1	<0.1	<0.1	7	1.02
1540063	Rock	2.66	<0.005	1.1	10.5	5.2	34	<0.1	2.5	3.3	431	1.47	<0.5	<0.5	15.6	55	<0.1	<0.1	<0.1	11	2.94
1540064	Rock	3.18	0.006	1.0	6.2	3.2	30	<0.1	2.2	3.1	424	1.51	<0.5	3.2	13.4	36	<0.1	<0.1	<0.1	15	1.41
1540065	Rock	3.03	<0.005	0.8	7.6	3.2	33	<0.1	2.0	3.4	449	1.52	<0.5	3.3	12.4	24	<0.1	<0.1	<0.1	14	1.11
1540066	Rock	3.23	<0.005	0.8	6.8	3.0	22	<0.1	2.0	2.3	299	1.24	<0.5	2.9	17.9	26	<0.1	<0.1	<0.1	9	0.76
1540067	Rock	2.35	<0.005	0.9	9.2	4.1	21	<0.1	2.0	2.4	304	1.16	<0.5	2.0	14.5	25	<0.1	<0.1	<0.1	6	0.98
1540068	Rock	3.07	<0.005	1.5	12.1	3.9	23	<0.1	2.2	3.1	383	1.27	<0.5	13.1	14.4	25	<0.1	<0.1	<0.1	6	1.22
1540069	Rock	1.94	0.006	1.4	9.8	3.7	23	<0.1	2.2	3.0	453	1.31	13.0	6.5	11.8	34	<0.1	<0.1	<0.1	9	1.45
1540070	Rock	2.79	<0.005	0.7	8.1	3.2	35	<0.1	2.0	5.2	536	2.09	1.7	4.1	10.3	66	<0.1	<0.1	<0.1	29	2.33
1540071	Rock	3.07	0.008	1.0	5.1	5.9	45	<0.1	1.4	6.8	1241	2.55	2.3	6.5	6.1	122	<0.1	<0.1	<0.1	33	5.88
1540072	Rock	2.61	0.006	0.8	7.5	3.6	24	<0.1	2.3	2.5	346	1.20	4.8	6.3	13.4	67	<0.1	<0.1	<0.1	6	1.98
1540073	Rock	1.65	<0.005	0.5	7.0	3.0	26	<0.1	1.9	2.1	365	1.09	5.6	4.6	10.6	49	<0.1	<0.1	<0.1	7	1.81
1540074	Rock	1.11	<0.005	0.7	7.1	3.1	32	<0.1	2.2	2.8	385	1.39	11.6	5.3	10.6	42	<0.1	<0.1	<0.1	12	1.99
1540075	Rock	4.33	0.011	1.4	12.1	4.3	46	<0.1	4.1	6.5	726	2.36	2.3	8.5	10.2	23	<0.1	0.2	<0.1	34	1.13
1540076	Rock	5.31	<0.005	1.8	12.5	4.6	50	<0.1	3.0	6.1	737	2.46	1.0	4.5	6.5	40	<0.1	0.2	0.1	36	2.58
1540077	Rock	5.16	<0.005	0.5	18.7	2.5	41	<0.1	2.0	4.3	484	1.64	0.7	2.8	9.6	28	<0.1	<0.1	0.1	24	1.04
1540078	Rock	3.94	<0.005	0.7	11.9	4.8	40	<0.1	2.8	4.1	433	1.65	0.5	1.5	7.2	55	<0.1	<0.1	0.1	22	1.69
1540079	Rock	5.16	<0.005	0.6	7.0	4.5	45	<0.1	2.0	3.8	446	1.67	0.7	<0.5	8.6	44	<0.1	<0.1	<0.1	23	1.55
1540080	Rock Pulp	0.12	<0.005	2.4	25.7	2.3	43	0.3	22.6	10.3	387	2.31	4.8	1.8	1.4	40	0.2	0.3	<0.1	56	0.73
1540081	Rock	4.36	<0.005	0.7	8.5	3.0	40	<0.1	2.2	4.4	421	1.79	0.5	1.8	11.1	37	<0.1	<0.1	<0.1	21	1.16
1540082	Rock	4.00	<0.005	0.8	5.2	3.4	38	<0.1	2.4	4.4	506	1.92	0.5	0.9	10.8	46	<0.1	<0.1	<0.1	23	1.25
1540083	Rock	4.69	<0.005	0.9	5.6	2.8	40	<0.1	2.2	4.6	552	1.93	0.8	0.6	12.1	44	<0.1	<0.1	<0.1	24	1.23
1540084	Rock	3.52	<0.005	1.0	3.8	4.1	37	<0.1	2.2	4.6	602	1.91	<0.5	<0.5	10.1	66	<0.1	<0.1	<0.1	21	2.04
1540085	Rock	4.25	<0.005	1.4	5.0	4.5	34	<0.1	2.1	3.7	552	1.67	0.5	0.8	7.6	61	<0.1	<0.1	0.1	16	2.58
1540086	Rock	4.42	<0.005	2.6	45.6	22.7	38	0.2	2.1	2.7	337	1.44	<0.5	<0.5	12.3	17	0.2	<0.1	1.8	7	0.76
1540087	Rock	4.64	<0.005	3.1	12.3	5.9	29	<0.1	1.8	2.6	394	1.26	0.8	<0.5	11.7	40	<0.1	<0.1	0.3	7	1.32
1540088	Rock	3.76	<0.005	2.8	10.8	5.8	26	<0.1	2.0	2.7	455	1.29	1.2	0.5	10.6	70	<0.1	<0.1	0.2	6	2.14
1540089	Rock	3.85	<0.005	1.4	6.2	3.9	31	<0.1	1.8	2.7	431	1.34	0.5	2.4	11.3	44	<0.1	<0.1	<0.1	10	1.53
1540090	Rock	4.23	<0.005	1.6	4.8	4.5	55	<0.1	2.3	3.7	698	1.86	0.6	<0.5	15.9	53	<0.1	<0.1	<0.1	17	2.56



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CERTIFICATE OF ANALYSIS

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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
1540061	Rock	0.028	17	6	0.26	173	0.064	<20	0.79	0.014	0.39	0.6	<0.01	2.4	0.1	<0.05	4	<0.5	<0.2
1540062	Rock	0.014	28	6	0.10	71	0.024	<20	0.59	0.031	0.24	0.7	<0.01	1.7	<0.1	<0.05	3	<0.5	<0.2
1540063	Rock	0.017	31	7	0.15	86	0.031	<20	0.55	0.017	0.25	0.7	<0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
1540064	Rock	0.023	32	6	0.19	96	0.055	<20	0.73	0.023	0.34	0.7	<0.01	3.2	0.1	<0.05	4	<0.5	<0.2
1540065	Rock	0.023	28	6	0.17	104	0.048	<20	0.66	0.022	0.32	0.6	<0.01	3.3	0.1	<0.05	3	<0.5	<0.2
1540066	Rock	0.016	33	6	0.12	64	0.032	<20	0.57	0.041	0.24	0.8	<0.01	2.7	<0.1	<0.05	3	<0.5	<0.2
1540067	Rock	0.013	26	5	0.08	64	0.012	<20	0.55	0.020	0.17	0.8	<0.01	1.6	<0.1	<0.05	2	<0.5	<0.2
1540068	Rock	0.014	26	7	0.07	82	0.011	<20	0.51	0.015	0.16	0.8	<0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
1540069	Rock	0.015	22	5	0.07	100	0.009	<20	0.40	0.022	0.14	0.9	<0.01	1.5	<0.1	<0.05	1	<0.5	<0.2
1540070	Rock	0.033	23	6	0.30	120	0.051	<20	0.80	0.023	0.40	0.4	<0.01	5.4	0.1	<0.05	3	<0.5	<0.2
1540071	Rock	0.035	23	3	0.50	406	0.009	<20	0.53	0.004	0.19	<0.1	<0.01	7.2	<0.1	<0.05	2	<0.5	<0.2
1540072	Rock	0.013	27	7	0.14	179	0.004	<20	0.39	0.030	0.13	0.4	<0.01	1.9	<0.1	<0.05	1	<0.5	<0.2
1540073	Rock	0.011	23	4	0.23	80	0.009	<20	0.34	0.033	0.14	0.2	<0.01	1.7	<0.1	<0.05	2	<0.5	<0.2
1540074	Rock	0.021	23	6	0.26	67	0.020	<20	0.45	0.038	0.18	0.5	<0.01	2.6	<0.1	<0.05	2	<0.5	<0.2
1540075	Rock	0.038	27	7	0.20	141	0.039	<20	0.71	0.027	0.26	0.4	<0.01	6.4	<0.1	<0.05	3	<0.5	<0.2
1540076	Rock	0.043	20	6	0.21	167	0.049	<20	0.71	0.009	0.32	0.5	<0.01	6.6	0.1	<0.05	3	<0.5	<0.2
1540077	Rock	0.040	22	4	0.36	97	0.100	<20	0.87	0.011	0.55	1.0	<0.01	3.7	0.2	<0.05	4	<0.5	<0.2
1540078	Rock	0.037	18	7	0.30	122	0.082	<20	0.97	0.014	0.50	0.6	<0.01	2.7	0.2	<0.05	4	<0.5	<0.2
1540079	Rock	0.037	25	5	0.31	150	0.087	<20	0.82	0.034	0.46	0.6	<0.01	3.4	0.1	<0.05	4	<0.5	<0.2
1540080	Rock Pulp	0.058	4	29	0.74	98	0.124	<20	1.49	0.073	0.13	13.1	<0.01	4.2	<0.1	<0.05	5	<0.5	<0.2
1540081	Rock	0.031	31	6	0.30	119	0.092	<20	0.86	0.048	0.49	0.6	<0.01	4.1	0.2	<0.05	4	<0.5	<0.2
1540082	Rock	0.031	29	6	0.37	114	0.112	<20	0.99	0.039	0.58	0.8	<0.01	4.5	0.1	<0.05	4	<0.5	<0.2
1540083	Rock	0.031	33	5	0.39	141	0.119	<20	0.93	0.052	0.63	0.8	<0.01	5.2	0.2	<0.05	4	<0.5	<0.2
1540084	Rock	0.034	29	6	0.32	136	0.089	<20	0.89	0.028	0.51	0.4	<0.01	4.7	0.1	<0.05	4	<0.5	<0.2
1540085	Rock	0.034	23	5	0.22	181	0.045	<20	0.72	0.008	0.32	0.5	<0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
1540086	Rock	0.026	30	6	0.09	114	0.022	<20	0.51	0.023	0.22	0.8	<0.01	2.3	<0.1	<0.05	2	<0.5	<0.2
1540087	Rock	0.023	31	5	0.08	103	0.016	<20	0.43	0.031	0.21	0.9	<0.01	2.0	<0.1	<0.05	2	<0.5	<0.2
1540088	Rock	0.025	28	6	0.07	196	0.003	<20	0.38	0.023	0.21	0.7	<0.01	1.3	<0.1	<0.05	1	<0.5	<0.2
1540089	Rock	0.022	29	4	0.12	121	0.023	<20	0.48	0.030	0.21	0.7	<0.01	2.5	<0.1	<0.05	2	<0.5	<0.2
1540090	Rock	0.027	37	6	0.34	188	0.044	<20	0.82	0.040	0.34	0.4	<0.01	4.1	0.1	<0.05	5	<0.5	<0.2



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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540091	Rock	3.73	<0.005	1.0	6.6	3.4	38	<0.1	2.0	2.8	424	1.37	<0.5	<0.5	11.3	28	<0.1	<0.1	<0.1	11	1.04
1540092	Rock	4.89	<0.005	1.0	7.3	3.8	32	<0.1	2.3	2.8	436	1.49	0.6	<0.5	11.5	40	<0.1	<0.1	<0.1	11	1.55
1540093	Rock	4.37	<0.005	1.0	8.1	4.8	41	<0.1	2.4	2.9	466	1.48	0.7	<0.5	10.1	40	<0.1	<0.1	<0.1	13	1.17
1540094	Rock	3.90	<0.005	1.3	6.1	4.9	39	<0.1	2.2	2.5	416	1.41	0.8	<0.5	10.1	24	<0.1	<0.1	<0.1	11	0.60
1540095	Rock	4.73	<0.005	2.7	5.1	4.3	48	<0.1	2.0	3.6	638	1.75	<0.5	<0.5	11.6	41	<0.1	<0.1	<0.1	19	1.82
1540096	Rock	4.11	<0.005	5.1	12.1	2.9	49	<0.1	2.4	4.6	474	1.96	<0.5	<0.5	10.6	31	<0.1	<0.1	0.2	21	0.77
1540097	Rock	4.11	<0.005	19.3	14.0	3.9	52	<0.1	2.1	4.3	667	2.05	0.6	<0.5	10.9	34	<0.1	<0.1	0.3	21	1.07
1540098	Rock	4.45	<0.005	3.5	10.2	3.3	41	<0.1	2.5	3.1	386	1.55	<0.5	<0.5	11.2	16	0.1	<0.1	0.1	12	0.54
1540099	Rock	4.27	<0.005	3.1	7.7	3.6	39	<0.1	2.0	2.7	452	1.35	0.6	0.8	10.3	41	<0.1	<0.1	<0.1	11	1.17
1540100	Rock Pulp	0.09	0.425	6.5	289.5	15.9	52	0.7	114.5	15.5	476	2.86	180.3	470.0	3.4	79	0.3	2.0	0.2	65	1.71
1540101	Rock	3.88	<0.005	1.7	9.1	4.6	36	<0.1	2.1	3.2	392	1.38	<0.5	8.4	13.6	35	<0.1	<0.1	0.1	13	0.97
1540102	Rock	4.35	<0.005	2.3	5.3	6.0	42	<0.1	2.2	3.0	610	1.57	<0.5	5.1	9.0	66	0.1	<0.1	<0.1	12	2.32
1540103	Rock	4.28	<0.005	1.2	5.7	3.8	34	<0.1	2.5	2.7	388	1.53	<0.5	3.6	10.2	49	<0.1	<0.1	<0.1	12	1.47
1540104	Rock	4.26	<0.005	1.3	13.5	4.4	32	<0.1	2.4	3.0	379	1.47	1.2	3.5	11.2	39	<0.1	<0.1	<0.1	14	0.94
1540105	Rock	4.57	<0.005	2.6	10.4	3.4	32	<0.1	2.5	2.8	349	1.39	1.1	1.3	13.7	36	<0.1	<0.1	<0.1	10	0.94
1540106	Rock	4.87	<0.005	2.0	7.5	3.4	30	<0.1	2.4	2.8	352	1.41	0.5	1.5	13.9	40	<0.1	<0.1	<0.1	10	0.98
1540107	Rock	1.67	<0.005	3.3	8.5	4.4	33	<0.1	2.5	3.2	499	1.66	<0.5	1.6	12.6	38	<0.1	<0.1	<0.1	13	1.01
1540108	Rock	0.42	<0.005	3.7	7.9	3.4	34	<0.1	1.9	2.2	353	1.25	0.8	0.9	9.6	38	<0.1	<0.1	<0.1	11	1.10
1540109	Rock	2.90	0.069	1.5	13.3	3.9	38	<0.1	3.2	5.2	648	1.88	0.7	68.1	10.7	18	<0.1	0.1	<0.1	26	1.20
1540110	Rock	3.45	0.007	1.6	3.3	3.7	33	<0.1	2.6	4.6	516	1.73	0.8	7.4	10.2	23	<0.1	<0.1	<0.1	21	1.43
1540111	Rock	4.25	<0.005	1.2	8.7	3.6	30	<0.1	1.8	3.7	464	1.64	<0.5	4.1	10.3	26	<0.1	<0.1	0.2	16	2.24
1540112	Rock	3.09	<0.005	2.6	13.7	4.9	27	<0.1	2.4	4.2	443	1.41	1.3	5.8	8.7	33	<0.1	0.1	0.4	9	3.07
1540113	Rock	2.73	<0.005	1.6	7.5	5.2	29	<0.1	1.4	3.6	321	1.48	2.3	2.3	10.1	30	<0.1	0.1	0.2	17	1.94
1540114	Rock	3.12	<0.005	0.9	7.1	4.2	36	<0.1	1.5	4.8	472	1.80	1.2	4.0	10.8	29	<0.1	<0.1	0.2	21	1.68
1540115	Rock	2.93	<0.005	1.0	4.9	3.1	23	<0.1	1.2	3.4	302	1.16	0.6	2.5	9.6	28	<0.1	<0.1	0.1	11	1.85
1540116	Rock	3.20	<0.005	4.0	7.1	5.7	31	<0.1	1.1	3.5	422	1.37	<0.5	2.4	9.5	46	<0.1	<0.1	0.1	9	2.52
1540117	Rock	2.92	<0.005	2.2	44.8	6.2	25	0.1	1.0	3.6	333	1.12	<0.5	1.7	9.2	26	<0.1	<0.1	0.3	8	1.62
1540118	Rock	3.52	0.011	2.7	57.6	9.1	37	0.1	1.8	5.2	610	1.69	0.8	11.1	10.2	32	0.1	0.1	0.2	19	2.06
1540119	Rock	3.43	<0.005	2.6	1.9	8.0	43	<0.1	1.4	3.4	433	1.54	<0.5	1.5	11.1	36	0.1	<0.1	<0.1	14	2.57
1540120	Rock Pulp	0.12	<0.005	2.1	25.5	2.3	41	0.3	23.0	10.4	382	2.25	4.3	6.8	0.9	36	0.2	0.3	<0.1	54	0.73



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Project: LOO
Report Date: July 08, 2017

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CERTIFICATE OF ANALYSIS

WHI17000127.1

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
1540091	Rock	0.023	31	6	0.15	87	0.043	<20	0.56	0.040	0.28	0.6	<0.01	3.2	0.1	<0.05	3	<0.5	<0.2
1540092	Rock	0.023	31	7	0.14	84	0.037	<20	0.54	0.052	0.25	1.0	<0.01	2.7	<0.1	<0.05	3	<0.5	<0.2
1540093	Rock	0.030	25	6	0.19	93	0.044	<20	0.60	0.055	0.30	0.9	<0.01	2.7	<0.1	<0.05	3	<0.5	<0.2
1540094	Rock	0.023	31	7	0.17	81	0.045	<20	0.58	0.050	0.28	0.8	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
1540095	Rock	0.027	35	6	0.28	133	0.056	<20	0.72	0.032	0.36	0.6	<0.01	4.0	0.1	<0.05	4	<0.5	<0.2
1540096	Rock	0.031	31	8	0.35	91	0.110	<20	1.00	0.031	0.56	0.6	<0.01	4.2	0.2	<0.05	5	<0.5	<0.2
1540097	Rock	0.032	30	6	0.28	116	0.086	<20	0.90	0.028	0.49	0.7	<0.01	4.5	0.2	<0.05	4	<0.5	<0.2
1540098	Rock	0.026	30	8	0.18	57	0.056	<20	0.67	0.053	0.35	0.8	<0.01	2.7	0.2	<0.05	3	<0.5	<0.2
1540099	Rock	0.024	30	6	0.18	51	0.049	<20	0.53	0.048	0.30	0.8	<0.01	2.5	0.1	<0.05	3	<0.5	<0.2
1540100	Rock Pulp	0.036	9	108	1.41	129	0.100	<20	2.63	0.310	0.23	1.0	0.04	2.8	<0.1	0.10	5	<0.5	<0.2
1540101	Rock	0.034	33	7	0.19	72	0.050	<20	0.63	0.046	0.33	0.9	<0.01	2.6	0.1	<0.05	3	<0.5	<0.2
1540102	Rock	0.023	28	6	0.17	230	0.043	<20	0.58	0.019	0.27	0.7	<0.01	2.9	<0.1	<0.05	3	<0.5	<0.2
1540103	Rock	0.024	32	8	0.18	131	0.056	<20	0.76	0.008	0.32	0.6	<0.01	3.5	0.1	<0.05	3	<0.5	<0.2
1540104	Rock	0.029	28	8	0.19	75	0.062	<20	0.66	0.040	0.33	0.9	<0.01	3.5	0.1	<0.05	3	<0.5	<0.2
1540105	Rock	0.021	35	9	0.14	73	0.046	<20	0.66	0.033	0.27	0.8	<0.01	3.2	0.1	<0.05	3	<0.5	<0.2
1540106	Rock	0.021	30	7	0.15	69	0.053	<20	0.68	0.040	0.30	0.9	<0.01	2.9	<0.1	<0.05	3	<0.5	<0.2
1540107	Rock	0.026	31	10	0.20	94	0.075	<20	0.82	0.022	0.37	0.8	<0.01	3.9	0.2	<0.05	4	<0.5	<0.2
1540108	Rock	0.018	24	13	0.14	87	0.042	<20	0.60	0.031	0.25	0.3	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
1540109	Rock	0.033	25	5	0.25	141	0.052	<20	0.92	0.006	0.33	0.6	0.01	4.8	0.1	<0.05	3	<0.5	<0.2
1540110	Rock	0.034	30	5	0.23	138	0.067	<20	0.87	0.003	0.35	0.5	<0.01	5.1	<0.1	<0.05	4	<0.5	<0.2
1540111	Rock	0.030	25	4	0.12	101	0.030	<20	0.66	0.001	0.21	0.6	<0.01	4.6	<0.1	<0.05	2	<0.5	<0.2
1540112	Rock	0.029	28	4	0.08	114	0.003	<20	0.46	<0.001	0.20	0.7	<0.01	2.8	<0.1	<0.05	1	<0.5	<0.2
1540113	Rock	0.037	24	3	0.09	68	0.013	<20	0.58	<0.001	0.19	0.5	<0.01	4.7	<0.1	<0.05	2	<0.5	<0.2
1540114	Rock	0.038	29	5	0.24	122	0.065	<20	0.91	0.003	0.41	0.6	<0.01	5.2	0.2	<0.05	3	<0.5	<0.2
1540115	Rock	0.037	23	3	0.11	65	0.018	<20	0.68	0.001	0.26	0.4	<0.01	2.9	<0.1	<0.05	2	<0.5	<0.2
1540116	Rock	0.034	23	3	0.09	218	0.010	<20	0.59	0.002	0.25	0.5	<0.01	2.8	<0.1	<0.05	2	<0.5	<0.2
1540117	Rock	0.032	22	4	0.07	150	0.010	<20	0.58	0.002	0.23	0.4	<0.01	3.3	<0.1	<0.05	2	<0.5	<0.2
1540118	Rock	0.036	26	3	0.14	148	0.030	<20	0.74	0.003	0.28	0.3	<0.01	4.5	<0.1	<0.05	2	<0.5	<0.2
1540119	Rock	0.022	29	4	0.18	148	0.039	<20	0.73	0.007	0.24	0.6	<0.01	3.4	<0.1	<0.05	3	<0.5	<0.2
1540120	Rock Pulp	0.058	4	29	0.73	85	0.121	<20	1.42	0.074	0.13	11.7	<0.01	4.4	<0.1	<0.05	4	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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Method	Analyte	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
1540121	Rock	3.09	<0.005	1.5	2.5	4.1	33	<0.1	1.3	3.3	373	1.55	<0.5	0.6	13.0	30	<0.1	<0.1	<0.1	13	1.61
1540122	Rock	3.25	0.005	2.4	3.6	4.2	29	<0.1	1.0	2.9	453	1.29	<0.5	3.8	9.0	25	<0.1	<0.1	<0.1	12	1.57
1540123	Rock	3.12	0.145	2.7	51.4	5.4	21	0.2	1.3	3.7	313	1.10	1.0	176.3	9.5	20	<0.1	0.1	0.5	7	0.71
1540124	Rock	3.33	0.013	8.1	53.1	6.1	30	0.2	1.2	4.3	296	1.37	0.7	14.0	10.2	30	0.2	0.1	1.3	10	1.20
1540125	Rock	3.81	<0.005	3.0	8.4	5.5	36	<0.1	1.5	3.9	515	1.51	<0.5	6.3	9.3	51	<0.1	<0.1	0.2	16	2.28
1540126	Rock	3.28	<0.005	1.7	4.5	4.5	43	<0.1	1.2	4.5	665	1.87	<0.5	4.5	12.5	38	<0.1	<0.1	<0.1	21	2.39
1540127	Rock	3.48	<0.005	3.4	6.1	4.7	34	<0.1	1.5	3.9	438	1.72	<0.5	4.9	11.9	37	<0.1	<0.1	<0.1	18	1.55
1540128	Rock	3.29	<0.005	4.7	8.7	4.0	37	<0.1	1.6	4.6	480	1.78	<0.5	2.9	10.6	39	<0.1	0.1	<0.1	18	1.45
1540129	Rock	3.70	<0.005	6.4	12.3	4.4	32	<0.1	1.4	4.0	478	1.77	<0.5	2.3	9.6	84	<0.1	0.1	<0.1	17	1.87
1540130	Rock	3.76	<0.005	8.0	3.2	5.3	35	<0.1	1.4	4.5	555	1.81	<0.5	3.2	11.5	89	<0.1	0.1	<0.1	20	2.03
1540131	Rock	3.08	<0.005	4.0	4.7	5.8	34	<0.1	1.3	4.5	731	1.78	<0.5	1.7	10.6	84	<0.1	0.1	<0.1	18	2.68
1540132	Rock	3.57	<0.005	2.9	3.1	4.4	35	<0.1	1.3	4.7	586	1.79	0.6	1.3	10.7	36	<0.1	0.1	<0.1	24	1.56
1540133	Rock	3.46	<0.005	1.8	3.8	3.1	43	<0.1	1.7	4.2	496	1.73	<0.5	0.8	7.9	48	<0.1	0.1	<0.1	20	1.01
1540134	Rock	3.75	<0.005	3.8	3.5	3.3	37	<0.1	1.4	3.6	466	1.54	<0.5	1.7	8.1	54	<0.1	<0.1	<0.1	16	1.58
1540135	Rock	4.00	<0.005	16.0	2.9	6.3	35	<0.1	1.3	4.1	524	1.80	<0.5	0.8	10.1	89	<0.1	0.2	<0.1	18	2.76
1540136	Rock	3.80	<0.005	1.7	8.1	5.7	50	<0.1	1.3	4.2	511	1.74	<0.5	1.6	10.5	72	0.2	0.1	<0.1	18	1.27
1540137	Rock	4.06	<0.005	1.5	8.0	5.2	64	<0.1	1.8	5.0	650	2.00	<0.5	1.6	9.8	70	0.2	<0.1	0.1	22	1.09
1540138	Rock	3.97	<0.005	1.1	6.6	3.6	47	<0.1	1.5	4.4	566	1.85	<0.5	1.4	9.5	45	0.1	0.1	<0.1	20	0.82



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CERTIFICATE OF ANALYSIS

WHI17000127.1

Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1540121	Rock	0.025	32	5	0.25	116	0.041	<20	0.76	0.013	0.29	0.4	<0.01	3.9	<0.1	<0.05	3	<0.5	<0.2	
1540122	Rock	0.031	23	3	0.08	112	0.013	<20	0.61	0.002	0.19	0.3	<0.01	3.0	<0.1	<0.05	2	<0.5	<0.2	
1540123	Rock	0.024	24	3	0.04	304	0.001	<20	0.58	0.003	0.20	0.2	0.02	2.3	<0.1	<0.05	2	<0.5	0.4	
1540124	Rock	0.033	26	4	0.06	458	0.006	<20	0.53	0.002	0.19	0.3	0.02	3.1	<0.1	<0.05	2	<0.5	<0.2	
1540125	Rock	0.031	21	4	0.13	656	0.026	<20	0.80	0.002	0.23	0.2	<0.01	4.2	<0.1	<0.05	3	<0.5	<0.2	
1540126	Rock	0.033	43	4	0.20	400	0.066	<20	0.86	0.002	0.35	0.5	<0.01	5.2	0.1	<0.05	4	<0.5	<0.2	
1540127	Rock	0.033	43	6	0.15	303	0.043	<20	0.69	0.002	0.27	0.4	<0.01	5.0	0.1	<0.05	3	<0.5	<0.2	
1540128	Rock	0.029	29	5	0.18	217	0.046	<20	0.79	0.023	0.29	0.4	<0.01	5.0	0.1	<0.05	3	<0.5	<0.2	
1540129	Rock	0.031	23	6	0.18	64	0.037	<20	0.67	0.045	0.25	0.6	<0.01	4.4	<0.1	<0.05	3	<0.5	<0.2	
1540130	Rock	0.031	31	6	0.23	64	0.042	<20	0.64	0.036	0.25	0.5	<0.01	5.3	<0.1	<0.05	3	<0.5	<0.2	
1540131	Rock	0.032	31	5	0.17	150	0.034	<20	0.65	0.016	0.24	0.3	<0.01	5.4	<0.1	<0.05	3	<0.5	<0.2	
1540132	Rock	0.041	27	5	0.22	114	0.057	<20	0.82	0.009	0.36	0.3	<0.01	6.2	0.1	<0.05	4	<0.5	<0.2	
1540133	Rock	0.037	24	6	0.35	99	0.080	<20	0.88	0.055	0.43	0.8	<0.01	3.3	0.1	<0.05	4	<0.5	<0.2	
1540134	Rock	0.026	22	6	0.22	108	0.040	<20	0.68	0.039	0.26	0.5	<0.01	3.5	<0.1	<0.05	3	<0.5	<0.2	
1540135	Rock	0.033	26	6	0.15	62	0.022	<20	0.49	0.024	0.18	0.4	<0.01	4.3	<0.1	<0.05	2	<0.5	<0.2	
1540136	Rock	0.034	38	6	0.32	95	0.064	<20	0.78	0.045	0.34	0.6	<0.01	3.5	0.1	<0.05	4	<0.5	<0.2	
1540137	Rock	0.036	30	7	0.40	122	0.120	<20	0.97	0.057	0.55	1.0	<0.01	4.5	0.2	<0.05	5	<0.5	<0.2	
1540138	Rock	0.030	27	6	0.37	79	0.080	<20	0.89	0.054	0.40	0.9	<0.01	4.0	0.1	<0.05	4	<0.5	<0.2	



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QUALITY CONTROL REPORT

WHI17000127.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
1540007	Rock	3.22	0.006	1.4	10.2	3.9	52	<0.1	6.2	8.9	702	2.42	<0.5	<0.5	9.2	55	<0.1	<0.1	0.1	46	2.06
REP 1540007	QC			1.3	11.0	4.2	51	<0.1	5.8	9.0	691	2.46	<0.5	<0.5	9.1	57	<0.1	<0.1	0.1	47	2.10
1540040	Rock Pulp	0.13	<0.005	2.2	25.0	2.3	39	0.3	22.3	9.9	400	2.30	4.1	<0.5	1.0	37	0.2	0.3	<0.1	56	0.74
REP 1540040	QC			2.2	24.4	2.4	41	0.2	22.2	9.7	401	2.34	4.3	<0.5	0.9	38	0.1	0.3	<0.1	55	0.76
REP 1540045	QC		0.016																		
1540069	Rock	1.94	0.006	1.4	9.8	3.7	23	<0.1	2.2	3.0	453	1.31	13.0	6.5	11.8	34	<0.1	<0.1	<0.1	9	1.45
REP 1540069	QC		0.006																		
1540075	Rock	4.33	0.011	1.4	12.1	4.3	46	<0.1	4.1	6.5	726	2.36	2.3	8.5	10.2	23	<0.1	0.2	<0.1	34	1.13
REP 1540075	QC			1.5	11.8	4.1	48	<0.1	3.8	6.6	775	2.39	1.9	7.0	9.8	24	<0.1	0.2	<0.1	34	1.16
1540110	Rock	3.45	0.007	1.6	3.3	3.7	33	<0.1	2.6	4.6	516	1.73	0.8	7.4	10.2	23	<0.1	<0.1	<0.1	21	1.43
REP 1540110	QC			1.5	3.6	3.9	36	<0.1	2.2	4.7	527	1.74	0.8	7.8	10.7	23	<0.1	<0.1	<0.1	21	1.43
1540119	Rock	3.43	<0.005	2.6	1.9	8.0	43	<0.1	1.4	3.4	433	1.54	<0.5	1.5	11.1	36	0.1	<0.1	<0.1	14	2.57
REP 1540119	QC		<0.005																		
Core Reject Duplicates																					
1540011	Rock	3.73	<0.005	1.9	2.8	1.4	35	<0.1	1.7	5.3	497	2.38	<0.5	<0.5	9.2	35	<0.1	<0.1	<0.1	27	1.73
DUP 1540011	QC		<0.005	2.1	3.0	1.5	35	<0.1	1.8	5.2	526	2.45	<0.5	<0.5	9.8	36	<0.1	<0.1	<0.1	27	1.79
1540045	Rock	2.74	<0.005	3.8	7.4	4.1	37	<0.1	2.0	4.6	542	2.07	<0.5	<0.5	9.7	59	<0.1	0.1	<0.1	22	1.42
DUP 1540045	QC		0.006	4.1	7.7	4.0	37	<0.1	2.1	4.5	511	2.10	<0.5	<0.5	9.6	60	<0.1	0.2	<0.1	22	1.38
1540079	Rock	5.16	<0.005	0.6	7.0	4.5	45	<0.1	2.0	3.8	446	1.67	0.7	<0.5	8.6	44	<0.1	<0.1	<0.1	23	1.55
DUP 1540079	QC		<0.005	0.6	6.0	4.3	42	<0.1	2.1	3.5	427	1.63	0.5	1.4	8.0	44	<0.1	<0.1	<0.1	23	1.54
1540113	Rock	2.73	<0.005	1.6	7.5	5.2	29	<0.1	1.4	3.6	321	1.48	2.3	2.3	10.1	30	<0.1	0.1	0.2	17	1.94
DUP 1540113	QC		<0.005	1.6	6.9	5.0	26	<0.1	1.4	3.7	319	1.53	2.4	2.2	10.1	28	<0.1	0.1	0.2	18	1.96
Reference Materials																					
STD DS10	Standard			11.7	159.5	148.9	367	1.8	73.5	13.9	851	2.61	45.7	56.6	7.1	64	2.7	9.3	13.1	40	1.01
STD DS10	Standard			14.6	155.8	144.2	354	2.4	71.8	13.1	843	2.73	43.2	98.3	7.6	66	2.4	8.7	12.9	42	1.03
STD DS10	Standard			13.0	159.2	150.2	357	1.8	71.8	13.4	843	2.67	44.9	53.0	7.8	64	2.5	8.3	13.1	41	1.03
STD DS10	Standard			13.9	160.7	149.1	357	1.8	74.6	13.4	874	2.75	48.2	75.8	7.0	67	2.6	9.7	12.6	41	1.04
STD OREAS45EA	Standard			1.6	648.7	13.5	28	0.2	362.7	54.3	356	19.53	11.1	52.7	10.2	4	<0.1	0.4	0.3	298	0.03



Bureau Veritas Commodities Canada Ltd.
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Project: LOO
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QUALITY CONTROL REPORT

WHI17000127.1

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																			
154007	Rock	0.045	26	28	0.78	145	0.134	<20	1.33	0.029	0.81	0.8	<0.01	7.0	0.3	<0.05	6	<0.5	<0.2
REP 1540007	QC	0.049	27	28	0.80	147	0.138	<20	1.36	0.030	0.83	0.7	<0.01	7.5	0.3	<0.05	6	<0.5	<0.2
1540040	Rock Pulp	0.059	4	29	0.74	85	0.126	<20	1.45	0.071	0.13	12.5	<0.01	4.6	<0.1	<0.05	4	<0.5	<0.2
REP 1540040	QC	0.051	4	28	0.75	92	0.132	<20	1.46	0.072	0.13	12.7	<0.01	5.0	<0.1	<0.05	5	<0.5	<0.2
REP 1540045	QC																		
1540069	Rock	0.015	22	5	0.07	100	0.009	<20	0.40	0.022	0.14	0.9	<0.01	1.5	<0.1	<0.05	1	<0.5	<0.2
REP 1540069	QC																		
1540075	Rock	0.038	27	7	0.20	141	0.039	<20	0.71	0.027	0.26	0.4	<0.01	6.4	<0.1	<0.05	3	<0.5	<0.2
REP 1540075	QC	0.039	28	7	0.21	140	0.041	<20	0.71	0.027	0.26	0.4	<0.01	6.6	<0.1	<0.05	3	<0.5	<0.2
1540110	Rock	0.034	30	5	0.23	138	0.067	<20	0.87	0.003	0.35	0.5	<0.01	5.1	<0.1	<0.05	4	<0.5	<0.2
REP 1540110	QC	0.034	30	5	0.23	137	0.068	<20	0.86	0.003	0.35	0.6	<0.01	5.2	0.1	<0.05	4	<0.5	<0.2
1540119	Rock	0.022	29	4	0.18	148	0.039	<20	0.73	0.007	0.24	0.6	<0.01	3.4	<0.1	<0.05	3	<0.5	<0.2
REP 1540119	QC																		
Core Reject Duplicates																			
1540011	Rock	0.028	28	8	0.59	117	0.130	<20	1.00	0.050	0.70	0.8	<0.01	5.1	0.1	<0.05	5	<0.5	<0.2
DUP 1540011	QC	0.029	29	8	0.60	119	0.137	<20	1.03	0.048	0.71	0.8	<0.01	5.5	0.1	<0.05	5	<0.5	<0.2
1540045	Rock	0.034	28	10	0.22	70	0.056	<20	0.70	0.033	0.32	0.6	<0.01	5.4	0.1	<0.05	3	<0.5	<0.2
DUP 1540045	QC	0.033	28	11	0.22	73	0.055	<20	0.70	0.035	0.32	0.6	<0.01	5.1	0.1	<0.05	3	<0.5	<0.2
1540079	Rock	0.037	25	5	0.31	150	0.087	<20	0.82	0.034	0.46	0.6	<0.01	3.4	0.1	<0.05	4	<0.5	<0.2
DUP 1540079	QC	0.036	23	4	0.30	136	0.084	<20	0.82	0.036	0.46	0.5	<0.01	3.3	0.1	<0.05	4	<0.5	<0.2
1540113	Rock	0.037	24	3	0.09	68	0.013	<20	0.58	<0.001	0.19	0.5	<0.01	4.7	<0.1	<0.05	2	<0.5	<0.2
DUP 1540113	QC	0.039	24	3	0.10	73	0.014	<20	0.69	0.002	0.20	0.4	<0.01	4.8	<0.1	<0.05	2	<0.5	<0.2
Reference Materials																			
STD DS10	Standard	0.076	16	51	0.74	395	0.082	<20	0.96	0.064	0.31	3.4	0.29	2.7	5.0	0.27	4	2.2	4.8
STD DS10	Standard	0.068	19	56	0.77	425	0.087	<20	1.06	0.069	0.34	2.6	0.26	3.2	4.8	0.28	5	1.8	5.0
STD DS10	Standard	0.073	16	55	0.75	375	0.082	<20	0.97	0.064	0.33	3.3	0.28	2.9	5.1	0.28	4	1.7	4.9
STD DS10	Standard	0.077	16	58	0.78	412	0.082	<20	0.98	0.070	0.34	3.1	0.26	2.9	5.0	0.28	4	1.9	4.8
STD OREAS45EA	Standard	0.031	6	787	0.09	128	0.102	<20	3.01	0.020	0.05	<0.1	<0.01	78.4	<0.1	<0.05	11	1.3	<0.2



Bureau Veritas Commodities Canada Ltd.
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Dawson Yukon Y0B 1G0 Canada

Project: LOO
Report Date: July 08, 2017

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QUALITY CONTROL REPORT

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	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
STD OREAS45EA	Standard		1.5	701.1	13.9	31	0.3	389.5	53.4	409	22.26	11.6	45.8	10.9	4	<0.1	0.3	0.3	308	0.04	
STD OREAS45EA	Standard		1.5	697.7	14.8	29	0.3	384.9	55.2	411	22.22	11.2	59.0	10.8	4	<0.1	0.4	0.3	311	0.04	
STD OREAS45EA	Standard		1.5	684.0	13.6	30	0.3	374.8	53.2	396	22.30	11.3	58.0	10.5	4	<0.1	0.5	0.3	304	0.04	
STD OXC145	Standard	0.208																			
STD OXC145	Standard	0.201																			
STD OXC145	Standard	0.209																			
STD OXH122	Standard	1.224																			
STD OXH122	Standard	1.189																			
STD OXH122	Standard	1.296																			
STD OXN117	Standard	7.306																			
STD OXN117	Standard	7.368																			
STD OXN117	Standard	7.632																			
STD DS10 Expected			13.6	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	
STD OREAS45EA Expected			1.6	709	14.3	31.4	0.26	381	52	400	23.51	10.3	53	10.7	3.5	0.03	0.32	0.26	303	0.036	
STD OXN117 Expected		7.679																			
STD OXC145 Expected		0.212																			
STD OXH122 Expected		1.247																			
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
Prep Wash																					
ROCK-WHI	Prep Blank	<0.005	0.9	3.0	1.4	31	<0.1	1.3	3.8	420	1.71	2.3	2.4	2.5	30	<0.1	<0.1	<0.1	22	0.59	



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Project: LOO
Report Date: July 08, 2017

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QUALITY CONTROL REPORT

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		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD OREAS45EA	Standard	0.028	7	811	0.10	141	0.106	<20	3.35	0.016	0.06	<0.1	<0.01	82.5	<0.1	<0.05	12	1.3	<0.2
STD OREAS45EA	Standard	0.031	7	829	0.10	140	0.111	<20	3.24	0.016	0.06	<0.1	0.01	80.5	<0.1	<0.05	12	0.9	<0.2
STD OREAS45EA	Standard	0.029	7	828	0.10	147	0.103	<20	3.20	0.016	0.06	<0.1	0.01	77.1	<0.1	<0.05	11	0.8	<0.2
STD OXC145	Standard																		
STD OXC145	Standard																		
STD OXC145	Standard																		
STD OXH122	Standard																		
STD OXH122	Standard																		
STD OXH122	Standard																		
STD OXH122	Standard																		
STD OXN117	Standard																		
STD OXN117	Standard																		
STD OXN117	Standard																		
STD DS10 Expected		0.0765	17.5	54.6	0.775	412	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3	2.3	5.01
STD OREAS45EA Expected		0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053			78	0.072	0.036	12.4	0.78	0.07
STD OXN117 Expected																			
STD OXC145 Expected																			
STD OXH122 Expected																			
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
Prep Wash																			
ROCK-WHI	Prep Blank	0.039	6	5	0.37	75	0.097	<20	0.86	0.102	0.10	0.2	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2



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QUALITY CONTROL REPORT

WHI17000127.1

WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca		
kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%		
0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01		
ROCK-WHI	Prep Blank	<0.005	0.8	2.6	1.3	37	<0.1	1.2	4.2	434	1.82	1.0	3.0	2.5	29	<0.1	0.5	<0.1	23	0.61	



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QUALITY CONTROL REPORT

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	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
ROCK-WHI	Prep Blank	0.043	6	6	0.41	74	0.102	<20	0.86	0.075	0.08	0.2	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2



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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
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Client: **White Gold Corp.**
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Submitted By: Jodie Gibson
Receiving Lab: Canada-Whitehorse
Received: June 21, 2017
Report Date: July 12, 2017
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CERTIFICATE OF ANALYSIS

WHI17000128.1

CLIENT JOB INFORMATION

Project: LOO
Shipment ID: LOO-20170619-001-ROCK
P.O. Number
Number of Samples: 138

SAMPLE DISPOSAL

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

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	131	Crush, split and pulverize 250 g rock to 200 mesh			WHI
SLBHP	7	Sort, label and box pulps			WHI
FA430	138	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	138	Environmental disposal charge-Fire assay lead waste			VAN
AQ200	138	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	138	Per sample shipping charges for branch shipments			VAN
FA530	1	Lead collection fire assay 30G fusion - Grav finish	30	Completed	VAN

ADDITIONAL COMMENTS

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

CC: Isaac Fage
Shawn Ryan



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



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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CERTIFICATE OF ANALYSIS

WHI17000128.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540139	Rock	3.78	<0.005	2.4	10.5	8.0	56	<0.1	1.3	4.4	752	1.97	0.6	<0.5	9.7	78	0.3	0.2	0.2	19	1.75
1540140	Rock Pulp	0.08	5.332	8.1	202.5	22.5	77	0.9	15.0	11.4	554	4.25	11.6	6136.2	2.8	72	0.2	4.0	0.5	99	0.91
1540141	Rock	3.60	0.009	1.8	18.0	6.9	51	<0.1	1.4	3.7	590	1.63	0.6	1.7	9.1	60	0.1	0.2	0.3	16	1.20
1540142	Rock	3.20	<0.005	2.2	6.4	4.7	28	<0.1	1.2	2.8	435	1.21	<0.5	2.0	9.5	64	<0.1	0.2	0.2	9	1.49
1540143	Rock	3.57	<0.005	1.3	4.6	3.7	24	<0.1	1.4	2.2	349	1.17	<0.5	1.6	10.2	60	<0.1	<0.1	<0.1	9	1.41
1540144	Rock	3.65	<0.005	1.3	5.6	3.4	26	<0.1	1.2	2.3	406	1.12	<0.5	0.9	11.8	44	<0.1	0.1	<0.1	8	1.14
1540145	Rock	3.39	<0.005	1.7	5.5	2.5	29	<0.1	1.3	2.7	401	1.31	<0.5	<0.5	12.8	40	<0.1	<0.1	<0.1	12	0.89
1540146	Rock	3.75	<0.005	1.5	4.6	2.3	33	<0.1	1.5	3.0	454	1.34	<0.5	<0.5	11.9	68	<0.1	<0.1	<0.1	11	1.25
1540147	Rock	3.40	<0.005	1.7	3.3	2.6	38	<0.1	1.8	4.4	558	1.76	<0.5	<0.5	10.9	60	<0.1	<0.1	<0.1	19	1.39
1540148	Rock	3.84	<0.005	1.9	3.2	3.1	33	<0.1	4.1	4.1	458	1.71	<0.5	<0.5	11.5	75	<0.1	0.1	<0.1	23	1.47
1540149	Rock	3.57	<0.005	1.3	6.0	3.0	37	<0.1	2.0	5.2	502	1.99	<0.5	<0.5	10.3	81	<0.1	0.1	<0.1	27	1.50
1540150	Rock	3.73	<0.005	1.4	6.0	2.6	38	<0.1	1.9	5.0	549	1.86	<0.5	<0.5	9.1	93	<0.1	0.1	<0.1	24	1.74
1540151	Rock	3.32	<0.005	1.7	5.4	2.1	46	<0.1	2.0	5.3	556	2.15	<0.5	<0.5	10.9	52	<0.1	0.1	<0.1	31	0.83
1540152	Rock	3.26	<0.005	2.0	2.8	2.9	43	<0.1	1.5	5.1	611	2.07	<0.5	<0.5	10.7	62	<0.1	0.1	<0.1	27	1.43
1540153	Rock	3.82	<0.005	2.0	3.4	2.4	40	<0.1	1.4	4.9	496	1.95	<0.5	<0.5	10.1	50	<0.1	0.2	<0.1	23	0.96
1540154	Rock	0.66	<0.005	1.2	5.0	2.0	35	<0.1	1.0	3.1	262	1.40	<0.5	<0.5	6.3	35	<0.1	0.1	<0.1	16	0.66
1540155	Rock	3.23	<0.005	1.8	7.0	3.1	42	<0.1	1.5	4.7	417	1.96	<0.5	<0.5	8.7	58	<0.1	0.2	<0.1	23	1.07
1540156	Rock	3.38	<0.005	1.7	4.5	3.5	34	<0.1	1.3	3.6	361	1.48	<0.5	<0.5	8.3	64	<0.1	0.1	<0.1	18	1.16
1540157	Rock	3.87	<0.005	1.9	8.1	3.6	44	<0.1	1.5	4.4	457	1.81	0.7	<0.5	9.6	54	<0.1	<0.1	<0.1	22	1.01
1540158	Rock	3.46	<0.005	1.7	9.7	3.2	41	<0.1	1.7	5.2	422	1.94	0.5	<0.5	9.7	45	<0.1	0.2	<0.1	25	0.82
1540159	Rock	3.78	<0.005	2.9	9.3	3.8	44	<0.1	1.6	4.8	621	1.84	<0.5	<0.5	9.3	51	<0.1	0.1	<0.1	22	0.79
1540160	Rock Pulp	0.12	<0.005	2.2	24.9	2.4	43	0.3	22.9	9.7	384	2.35	4.8	<0.5	0.9	39	0.2	0.3	<0.1	56	0.78
1540161	Rock	3.50	<0.005	1.5	6.1	2.8	43	<0.1	1.6	4.6	550	1.80	<0.5	<0.5	8.0	82	<0.1	<0.1	<0.1	26	1.38
1540162	Rock	3.88	<0.005	1.7	6.8	3.6	46	<0.1	2.1	5.8	571	2.25	<0.5	<0.5	11.4	73	<0.1	0.1	<0.1	35	1.07
1540163	Rock	3.80	<0.005	2.9	5.1	1.9	41	<0.1	1.6	4.9	516	1.96	<0.5	<0.5	10.3	54	<0.1	<0.1	<0.1	28	0.85
1540164	Rock	3.92	<0.005	2.5	5.2	2.1	50	<0.1	2.1	5.0	534	2.03	<0.5	<0.5	9.6	45	<0.1	0.6	<0.1	27	0.88
1540165	Rock	3.94	<0.005	5.4	5.2	2.0	45	<0.1	1.5	5.1	637	2.07	<0.5	<0.5	8.8	55	<0.1	<0.1	<0.1	25	1.20
1540166	Rock	4.14	<0.005	4.4	6.7	2.0	45	<0.1	2.5	6.1	582	2.25	<0.5	<0.5	8.8	54	<0.1	<0.1	<0.1	32	0.97
1540167	Rock	3.64	<0.005	3.6	4.6	1.7	40	<0.1	1.7	4.8	510	1.96	<0.5	<0.5	9.3	46	<0.1	<0.1	<0.1	27	0.82
1540168	Rock	3.87	<0.005	6.8	7.1	2.3	40	<0.1	1.5	5.3	580	2.11	<0.5	<0.5	10.2	77	<0.1	<0.1	<0.1	26	1.35



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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA530
	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	Au gm/t
1540139	Rock	0.033	29	5	0.28	130	0.030	<20	0.69	0.033	0.24	0.5	<0.01	4.0	<0.1	<0.05	3	<0.5	<0.2
1540140	Rock Pulp	0.060	8	19	0.86	136	0.133	<20	1.69	0.181	0.23	5.2	0.17	3.2	<0.1	<0.05	5	<0.5	<0.2
1540141	Rock	0.032	28	5	0.15	106	0.024	<20	0.53	0.034	0.20	0.5	<0.01	3.7	<0.1	<0.05	2	<0.5	<0.2
1540142	Rock	0.026	25	4	0.12	156	0.016	<20	0.39	0.003	0.19	0.5	<0.01	2.5	<0.1	<0.05	1	<0.5	<0.2
1540143	Rock	0.030	25	5	0.19	43	0.021	<20	0.52	0.013	0.21	0.5	<0.01	2.5	<0.1	<0.05	2	<0.5	<0.2
1540144	Rock	0.026	30	6	0.19	40	0.023	<20	0.37	0.012	0.18	0.8	<0.01	2.6	<0.1	<0.05	2	<0.5	<0.2
1540145	Rock	0.025	28	6	0.22	55	0.055	<20	0.57	0.030	0.32	1.6	0.01	3.2	0.1	<0.05	3	<0.5	<0.2
1540146	Rock	0.029	31	6	0.35	71	0.034	<20	0.46	0.025	0.24	0.9	<0.01	3.0	<0.1	<0.05	2	<0.5	<0.2
1540147	Rock	0.033	27	7	0.43	107	0.053	<20	0.80	0.030	0.39	0.8	<0.01	3.7	0.1	<0.05	4	<0.5	<0.2
1540148	Rock	0.032	38	7	0.31	59	0.056	<20	0.67	0.030	0.34	0.8	<0.01	4.2	<0.1	<0.05	3	<0.5	<0.2
1540149	Rock	0.040	29	7	0.32	67	0.060	<20	0.76	0.039	0.37	0.5	<0.01	5.5	0.1	<0.05	4	<0.5	<0.2
1540150	Rock	0.037	26	7	0.33	62	0.026	<20	0.48	0.030	0.20	0.4	<0.01	4.3	<0.1	<0.05	2	<0.5	<0.2
1540151	Rock	0.037	28	8	0.44	103	0.110	<20	0.98	0.051	0.59	0.7	<0.01	5.3	0.2	<0.05	5	<0.5	<0.2
1540152	Rock	0.032	28	7	0.40	118	0.081	<20	0.84	0.031	0.46	0.6	<0.01	5.1	0.1	<0.05	4	<0.5	<0.2
1540153	Rock	0.036	26	7	0.35	90	0.059	<20	0.78	0.039	0.35	0.4	<0.01	4.7	0.1	<0.05	4	<0.5	<0.2
1540154	Rock	0.025	17	5	0.21	50	0.034	<20	0.51	0.031	0.22	0.2	<0.01	3.0	<0.1	<0.05	3	<0.5	<0.2
1540155	Rock	0.034	25	7	0.27	70	0.047	<20	0.71	0.039	0.30	0.5	<0.01	4.3	<0.1	<0.05	4	<0.5	<0.2
1540156	Rock	0.031	24	7	0.26	53	0.029	<20	0.50	0.020	0.22	0.4	<0.01	4.1	<0.1	<0.05	3	<0.5	<0.2
1540157	Rock	0.035	26	7	0.20	68	0.025	<20	0.53	0.031	0.21	0.3	<0.01	5.0	<0.1	<0.05	2	<0.5	<0.2
1540158	Rock	0.035	29	8	0.26	44	0.017	<20	0.59	0.031	0.17	0.4	<0.01	4.2	<0.1	<0.05	3	<0.5	<0.2
1540159	Rock	0.035	27	8	0.20	135	0.029	<20	0.55	0.033	0.23	0.4	<0.01	3.7	<0.1	<0.05	3	<0.5	<0.2
1540160	Rock Pulp	0.057	4	31	0.74	95	0.122	<20	1.48	0.074	0.13	12.5	0.01	4.8	<0.1	<0.05	5	<0.5	<0.2
1540161	Rock	0.031	21	8	0.60	204	0.085	<20	0.76	0.031	0.49	0.8	<0.01	3.9	0.1	<0.05	4	<0.5	<0.2
1540162	Rock	0.043	35	9	0.54	184	0.121	<20	1.00	0.034	0.64	1.3	<0.01	5.5	0.2	<0.05	5	<0.5	<0.2
1540163	Rock	0.037	26	9	0.44	123	0.116	<20	0.90	0.043	0.59	1.6	<0.01	4.1	0.2	<0.05	4	<0.5	<0.2
1540164	Rock	0.034	26	9	0.44	110	0.098	<20	0.95	0.048	0.55	1.2	<0.01	3.6	0.2	<0.05	4	<0.5	<0.2
1540165	Rock	0.037	27	9	0.54	91	0.078	<20	0.91	0.037	0.45	1.0	<0.01	3.6	0.1	<0.05	5	<0.5	<0.2
1540166	Rock	0.044	26	10	0.57	153	0.110	<20	1.08	0.054	0.62	1.5	<0.01	4.1	0.2	<0.05	5	<0.5	<0.2
1540167	Rock	0.031	26	10	0.42	105	0.111	<20	0.93	0.040	0.57	1.8	<0.01	3.5	0.2	<0.05	4	<0.5	<0.2
1540168	Rock	0.034	32	9	0.43	118	0.102	<20	0.94	0.044	0.55	1.5	<0.01	4.0	0.2	0.05	5	<0.5	<0.2



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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540169	Rock	3.21	<0.005	4.7	10.0	3.3	38	<0.1	2.0	6.5	636	2.23	<0.5	<0.5	9.1	89	<0.1	0.1	<0.1	34	1.72
1540170	Rock	3.33	<0.005	2.7	6.3	3.2	41	<0.1	1.8	5.3	538	2.23	<0.5	0.5	10.6	81	<0.1	0.1	<0.1	33	1.36
1540171	Rock	3.58	<0.005	9.1	4.2	2.0	35	<0.1	1.6	4.7	498	1.91	<0.5	0.7	10.2	58	<0.1	0.1	<0.1	24	1.12
1540172	Rock	3.78	<0.005	7.0	5.2	2.3	30	<0.1	1.7	5.3	531	2.02	<0.5	0.7	9.2	65	<0.1	0.1	<0.1	28	1.34
1540173	Rock	3.51	<0.005	3.1	5.1	2.2	38	<0.1	1.4	5.0	501	2.03	<0.5	<0.5	8.5	51	<0.1	0.1	<0.1	26	0.92
1540174	Rock	3.11	<0.005	2.4	3.6	3.1	30	<0.1	1.6	4.7	685	1.87	<0.5	<0.5	8.5	103	<0.1	<0.1	<0.1	22	2.48
1540175	Rock	4.09	<0.005	3.0	4.6	3.0	41	<0.1	2.2	5.4	574	2.05	<0.5	<0.5	10.3	84	<0.1	0.2	<0.1	26	1.61
1540176	Rock	3.24	<0.005	2.0	5.5	2.3	35	<0.1	1.7	5.2	500	1.97	<0.5	<0.5	10.4	63	<0.1	0.2	<0.1	24	0.99
1540177	Rock	3.40	<0.005	1.8	3.9	2.6	30	<0.1	1.4	4.3	449	1.77	<0.5	<0.5	9.0	70	<0.1	0.1	<0.1	22	1.37
1540188	Rock	4.00	<0.005	0.9	9.7	4.4	35	<0.1	1.1	2.5	421	1.23	<0.5	<0.5	13.9	40	<0.1	<0.1	0.3	11	1.08
1540189	Rock	3.99	<0.005	1.0	7.5	4.7	32	<0.1	1.1	2.5	469	1.24	<0.5	<0.5	11.9	43	0.1	<0.1	0.2	10	1.47
1540190	Rock	4.21	<0.005	0.7	17.6	3.0	34	<0.1	1.4	2.5	422	1.23	<0.5	<0.5	8.3	28	<0.1	<0.1	0.2	11	1.02
1540191	Rock	4.19	<0.005	1.2	8.4	3.9	36	<0.1	1.2	2.5	522	1.39	<0.5	<0.5	13.0	22	<0.1	0.1	0.3	13	0.96
1540192	Rock	3.87	<0.005	1.0	8.3	2.4	37	<0.1	1.5	2.6	464	1.35	<0.5	<0.5	14.4	11	<0.1	<0.1	0.1	12	0.22
1540213	Rock	4.41	<0.005	1.1	3.9	4.5	37	<0.1	1.1	4.4	544	1.70	<0.5	<0.5	9.1	113	<0.1	<0.1	<0.1	20	2.42
1540214	Rock	4.57	<0.005	1.4	9.6	3.7	39	<0.1	1.5	4.9	442	1.80	<0.5	<0.5	10.1	72	<0.1	<0.1	<0.1	23	1.46
1540215	Rock	4.53	<0.005	1.5	10.8	3.3	42	<0.1	2.6	4.4	440	1.94	<0.5	0.8	8.9	58	<0.1	<0.1	<0.1	29	1.30
1540216	Rock	4.23	0.005	2.1	5.6	3.7	54	<0.1	1.9	6.6	815	2.04	0.6	2.1	10.2	62	<0.1	<0.1	<0.1	30	0.76
1540217	Rock	4.27	<0.005	1.5	4.1	8.6	52	<0.1	2.6	7.9	627	2.19	<0.5	2.0	8.6	48	0.1	<0.1	<0.1	26	0.78
1600068	Rock	3.05	<0.005	0.5	6.0	2.8	31	<0.1	0.9	2.5	380	1.15	<0.5	1.2	10.1	42	<0.1	<0.1	<0.1	13	1.31
1600069	Rock	3.60	0.007	1.0	5.5	2.1	26	<0.1	2.6	3.4	315	1.32	<0.5	1.8	11.7	19	<0.1	<0.1	<0.1	14	0.72
1600070	Rock	3.34	<0.005	1.1	4.5	2.4	50	<0.1	1.7	5.1	619	2.01	<0.5	<0.5	12.5	21	<0.1	<0.1	<0.1	30	0.75
1600071	Rock	3.21	<0.005	2.9	6.3	4.3	43	<0.1	2.0	4.4	905	1.78	0.9	<0.5	9.9	80	<0.1	<0.1	<0.1	23	3.38
1600072	Rock	3.28	<0.005	1.4	5.8	3.7	42	<0.1	1.5	4.5	585	1.65	<0.5	<0.5	11.3	56	<0.1	<0.1	<0.1	23	1.53
1600097	Rock	3.57	5.741	2.5	7.6	5.8	16	3.3	4.3	2.8	107	1.94	1.5	5332.4	10.5	12	<0.1	0.1	5.3	4	0.05
1600098	Rock	4.55	2.346	3.0	9.1	4.8	16	2.2	2.4	2.0	58	1.30	2.8	2401.2	13.1	7	<0.1	<0.1	1.0	3	0.05
1600099	Rock	5.08	0.511	1.9	5.0	2.7	14	0.3	2.1	1.8	55	1.33	1.2	463.7	17.5	4	<0.1	<0.1	0.1	3	0.07
1600100	Rock Pulp	0.09	0.515	6.3	268.3	15.7	51	0.5	110.5	15.5	440	2.85	179.0	359.9	3.8	85	0.2	1.7	0.1	64	1.77
1600101	Rock	3.03	1.427	1.1	3.2	2.8	11	0.6	2.3	1.9	36	1.24	0.6	1365.4	21.2	5	<0.1	<0.1	0.4	3	0.05
1600102	Rock	3.81	>10	3.7	14.9	11.7	23	6.7	1.6	3.8	45	3.30	4.4	18088.3	10.6	10	<0.1	0.3	6.1	19	0.10



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Method Analyte Unit MDL	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA530
	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	Au gm/t
1540169	Rock	0.045	27	9	0.44	217	0.098	<20	0.90	0.028	0.55	1.0	<0.01	5.0	0.2	<0.05	4	<0.5	<0.2
1540170	Rock	0.043	31	8	0.44	157	0.083	<20	0.95	0.034	0.52	0.8	<0.01	5.0	0.2	<0.05	4	<0.5	<0.2
1540171	Rock	0.036	28	9	0.45	73	0.078	<20	0.78	0.035	0.41	1.4	<0.01	3.6	0.1	<0.05	4	<0.5	<0.2
1540172	Rock	0.035	28	9	0.50	82	0.084	<20	0.89	0.042	0.46	1.3	<0.01	3.6	0.1	<0.05	5	<0.5	<0.2
1540173	Rock	0.032	23	10	0.47	67	0.079	<20	0.89	0.034	0.42	1.5	<0.01	3.5	0.1	<0.05	5	<0.5	<0.2
1540174	Rock	0.033	26	9	0.36	132	0.065	<20	0.80	0.033	0.38	1.0	<0.01	3.5	0.1	<0.05	4	<0.5	<0.2
1540175	Rock	0.037	29	9	0.41	76	0.080	<20	0.78	0.032	0.40	1.3	<0.01	4.3	0.1	<0.05	4	<0.5	<0.2
1540176	Rock	0.035	31	10	0.37	88	0.071	<20	0.87	0.039	0.39	1.2	<0.01	3.9	0.1	<0.05	4	<0.5	<0.2
1540177	Rock	0.030	24	8	0.39	118	0.047	<20	0.62	0.027	0.31	0.7	<0.01	4.0	<0.1	<0.05	3	<0.5	<0.2
1540188	Rock	0.021	29	3	0.15	91	0.039	<20	0.51	0.040	0.25	0.9	<0.01	3.1	<0.1	<0.05	3	<0.5	<0.2
1540189	Rock	0.024	30	4	0.12	93	0.034	<20	0.47	0.025	0.22	0.8	<0.01	3.0	<0.1	<0.05	2	<0.5	<0.2
1540190	Rock	0.028	24	4	0.15	85	0.039	<20	0.53	0.041	0.26	0.9	<0.01	2.6	0.1	<0.05	3	<0.5	<0.2
1540191	Rock	0.027	35	4	0.14	103	0.039	<20	0.48	0.027	0.24	0.7	<0.01	3.9	0.1	<0.05	3	<0.5	<0.2
1540192	Rock	0.027	30	4	0.20	92	0.065	<20	0.69	0.038	0.34	1.1	<0.01	3.8	0.1	<0.05	4	<0.5	<0.2
1540213	Rock	0.034	27	5	0.27	64	0.036	<20	0.72	0.025	0.26	0.3	<0.01	4.5	<0.1	<0.05	4	<0.5	<0.2
1540214	Rock	0.032	29	5	0.38	87	0.060	<20	0.91	0.036	0.38	0.4	<0.01	4.1	0.1	<0.05	5	<0.5	<0.2
1540215	Rock	0.034	27	8	0.38	122	0.067	<20	0.95	0.049	0.41	0.5	<0.01	4.2	0.1	<0.05	5	<0.5	<0.2
1540216	Rock	0.034	27	6	0.48	206	0.097	<20	1.25	0.048	0.50	0.5	<0.01	4.5	0.1	<0.05	6	<0.5	<0.2
1540217	Rock	0.034	26	9	0.37	132	0.067	<20	0.96	0.042	0.40	0.4	<0.01	4.8	<0.1	<0.05	5	<0.5	<0.2
1600068	Rock	0.033	20	2	0.22	72	0.041	<20	0.79	0.022	0.32	0.5	<0.01	2.2	0.1	<0.05	3	<0.5	<0.2
1600069	Rock	0.026	25	6	0.17	88	0.034	<20	0.65	0.048	0.25	0.6	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
1600070	Rock	0.048	31	3	0.39	131	0.102	<20	1.01	0.038	0.58	0.6	<0.01	4.2	0.2	<0.05	5	<0.5	<0.2
1600071	Rock	0.036	30	3	0.30	176	0.072	<20	0.98	0.015	0.45	0.4	<0.01	4.4	0.2	<0.05	4	<0.5	<0.2
1600072	Rock	0.035	27	3	0.33	150	0.080	<20	1.07	0.013	0.51	0.5	<0.01	3.7	0.2	<0.05	4	<0.5	<0.2
1600097	Rock	0.020	21	6	0.03	116	0.002	<20	0.38	0.023	0.21	1.6	0.65	0.9	<0.1	0.13	1	<0.5	16.8
1600098	Rock	0.012	12	4	0.03	84	0.002	<20	0.47	0.013	0.18	1.3	0.12	0.8	<0.1	<0.05	1	<0.5	3.3
1600099	Rock	0.012	5	4	0.02	47	0.001	<20	0.41	0.003	0.15	0.9	0.20	0.9	<0.1	<0.05	1	<0.5	0.5
1600100	Rock Pulp	0.036	9	104	1.40	128	0.109	<20	2.70	0.310	0.21	0.9	0.03	3.3	<0.1	0.10	6	<0.5	<0.2
1600101	Rock	0.010	11	4	0.03	60	0.001	<20	0.48	0.021	0.19	0.5	0.26	0.8	<0.1	<0.05	1	<0.5	1.6
1600102	Rock	0.025	8	4	0.05	98	0.002	<20	0.63	0.031	0.16	0.2	1.63	3.1	<0.1	<0.05	2	<0.5	19.0 17.1



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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1600103	Rock	3.26	0.185	13.9	10.8	3.8	24	<0.1	1.2	4.1	336	1.09	0.6	150.7	14.3	15	<0.1	<0.1	<0.1	7	0.90
1600104	Rock	3.72	0.062	5.8	8.1	3.8	29	<0.1	1.9	2.6	242	1.08	<0.5	59.4	12.7	28	<0.1	<0.1	<0.1	16	1.48
1600105	Rock	3.56	0.140	3.6	4.9	2.9	22	<0.1	1.0	2.2	221	0.96	<0.5	130.0	15.1	12	<0.1	<0.1	<0.1	7	0.49
1600106	Rock	3.59	0.090	2.4	7.9	2.5	23	<0.1	1.2	2.6	252	1.01	0.5	75.8	13.6	11	<0.1	<0.1	<0.1	8	0.29
1600107	Rock	3.70	0.037	12.3	5.4	3.3	19	<0.1	2.0	2.1	214	0.89	<0.5	29.1	14.7	34	<0.1	<0.1	<0.1	6	1.24
1600108	Rock	3.79	0.038	6.3	5.9	2.7	17	<0.1	1.2	1.9	192	0.81	<0.5	31.4	15.1	27	<0.1	<0.1	<0.1	4	1.16
1600109	Rock	3.84	0.025	1.7	4.7	1.6	22	<0.1	1.8	2.5	281	1.00	<0.5	21.7	15.9	17	<0.1	<0.1	<0.1	9	0.77
1600110	Rock	4.21	0.029	1.7	3.7	1.9	30	<0.1	2.1	2.5	332	1.19	<0.5	24.8	12.5	19	<0.1	<0.1	<0.1	10	0.83
1600111	Rock	3.60	0.034	2.1	9.0	2.4	21	<0.1	1.2	2.3	284	1.00	1.9	30.5	16.3	14	<0.1	<0.1	<0.1	7	0.69
1600112	Rock	3.46	0.025	1.0	5.4	2.9	18	<0.1	1.1	1.4	207	0.82	1.0	18.5	12.5	29	<0.1	<0.1	<0.1	7	1.08
1600113	Rock	3.65	0.018	1.0	5.8	3.5	29	<0.1	2.3	2.1	253	1.01	<0.5	16.9	9.5	40	<0.1	<0.1	<0.1	11	1.28
1600114	Rock	3.71	0.026	1.2	5.9	3.3	23	<0.1	1.0	2.1	332	1.10	<0.5	23.0	14.4	30	<0.1	<0.1	<0.1	8	1.28
1600115	Rock	3.80	0.031	1.2	7.3	1.8	19	<0.1	1.4	1.9	220	0.99	<0.5	27.7	15.4	13	<0.1	<0.1	<0.1	7	0.35
1600116	Rock	4.76	0.031	1.5	5.4	2.4	24	<0.1	2.3	2.3	272	1.12	<0.5	26.8	13.7	20	<0.1	<0.1	<0.1	10	0.64
1600117	Rock	4.25	0.016	0.9	6.9	2.7	21	<0.1	1.1	2.0	225	0.90	<0.5	14.5	15.1	33	<0.1	<0.1	<0.1	6	0.90
1600118	Rock	4.24	0.019	1.5	5.2	3.7	25	<0.1	1.0	1.7	283	0.90	<0.5	19.1	10.9	46	<0.1	<0.1	<0.1	6	1.77
1600119	Rock	4.30	0.039	1.2	6.0	2.5	23	<0.1	2.9	2.3	194	0.99	<0.5	40.7	12.5	19	<0.1	<0.1	<0.1	6	0.56
1600120	Rock Pulp	0.13	<0.005	2.3	25.4	2.4	45	0.2	22.4	9.9	394	2.27	4.6	0.7	1.0	41	0.1	0.3	<0.1	57	0.78
1600121	Rock	4.46	0.011	1.0	6.0	2.5	20	<0.1	0.9	1.6	209	0.83	<0.5	11.0	9.9	22	<0.1	<0.1	<0.1	7	0.50
1600122	Rock	4.07	0.010	0.9	7.5	2.1	18	<0.1	1.2	1.8	249	0.97	<0.5	7.7	15.3	16	<0.1	<0.1	<0.1	7	0.56
1600123	Rock	3.84	0.013	1.3	4.7	2.3	33	<0.1	2.6	2.7	388	1.25	<0.5	12.5	17.5	21	<0.1	<0.1	<0.1	11	0.88
1600124	Rock	4.07	0.007	1.2	12.3	2.2	20	<0.1	1.4	2.0	241	1.01	<0.5	7.0	14.3	17	<0.1	<0.1	<0.1	8	0.72
1600125	Rock	4.41	0.008	1.2	7.8	2.0	19	<0.1	1.2	1.6	205	0.93	<0.5	11.1	15.0	17	<0.1	<0.1	<0.1	8	0.43
1600126	Rock	3.99	0.012	1.4	6.3	2.9	28	<0.1	2.8	2.7	273	1.17	<0.5	13.9	13.0	32	<0.1	<0.1	<0.1	12	1.09
1600132	Rock	3.67	<0.005	1.1	4.4	3.5	14	<0.1	0.9	1.4	302	0.70	<0.5	4.5	14.7	32	<0.1	<0.1	<0.1	3	1.68
1600133	Rock	3.82	<0.005	0.9	5.9	2.9	19	<0.1	0.9	1.5	274	0.77	1.1	2.0	12.1	29	<0.1	<0.1	<0.1	5	1.42
1600134	Rock	3.79	<0.005	1.6	6.6	4.0	21	<0.1	2.3	2.1	307	1.00	<0.5	2.7	13.3	42	<0.1	<0.1	<0.1	4	1.95
1600135	Rock	4.04	<0.005	1.1	4.2	3.9	23	<0.1	1.1	2.3	312	0.90	<0.5	3.6	13.3	40	<0.1	<0.1	<0.1	5	1.86
1600136	Rock	4.03	<0.005	1.2	3.8	3.8	31	<0.1	1.3	1.8	299	0.91	<0.5	1.3	15.3	38	<0.1	<0.1	0.1	5	1.82
1600137	Rock	4.27	<0.005	1.2	4.9	4.1	31	<0.1	2.4	2.2	322	1.03	<0.5	3.1	12.0	66	<0.1	<0.1	<0.1	7	2.48



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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA530
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9
1600103	Rock	0.020	47	2	0.02	101	0.003	<20	0.60	0.008	0.14	0.3	0.06	1.8	<0.1	<0.05	2	<0.5	<0.2
1600104	Rock	0.032	23	4	0.09	71	0.010	<20	0.54	0.008	0.17	0.4	<0.01	2.1	<0.1	<0.05	2	<0.5	<0.2
1600105	Rock	0.019	27	2	0.08	66	0.013	<20	0.57	0.022	0.20	0.4	0.02	2.0	<0.1	<0.05	2	<0.5	<0.2
1600106	Rock	0.020	30	3	0.08	86	0.020	<20	0.39	0.039	0.18	0.7	<0.01	1.7	<0.1	<0.05	2	<0.5	<0.2
1600107	Rock	0.013	27	5	0.05	57	0.009	<20	0.45	0.028	0.14	0.3	<0.01	2.1	<0.1	<0.05	2	<0.5	<0.2
1600108	Rock	0.015	27	2	0.05	58	0.005	<20	0.38	0.007	0.12	0.4	<0.01	1.7	<0.1	<0.05	1	<0.5	<0.2
1600109	Rock	0.016	27	4	0.25	98	0.040	<20	0.71	0.035	0.37	0.7	<0.01	2.0	0.1	<0.05	3	<0.5	<0.2
1600110	Rock	0.015	22	5	0.24	78	0.048	<20	0.64	0.039	0.34	0.6	<0.01	2.2	0.1	<0.05	3	<0.5	<0.2
1600111	Rock	0.014	29	4	0.08	76	0.020	<20	0.44	0.035	0.18	0.5	<0.01	1.8	<0.1	<0.05	2	<0.5	<0.2
1600112	Rock	0.017	23	3	0.07	52	0.016	<20	0.45	0.035	0.17	0.4	<0.01	1.9	<0.1	<0.05	2	<0.5	<0.2
1600113	Rock	0.019	17	6	0.18	65	0.030	<20	0.72	0.036	0.25	0.5	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
1600114	Rock	0.013	28	3	0.11	75	0.029	<20	0.52	0.031	0.21	0.4	<0.01	2.1	<0.1	<0.05	2	<0.5	<0.2
1600115	Rock	0.013	27	3	0.11	61	0.037	<20	0.51	0.054	0.27	0.9	0.01	1.7	0.1	<0.05	2	<0.5	<0.2
1600116	Rock	0.016	26	7	0.15	72	0.037	<20	0.52	0.047	0.25	1.1	0.01	2.1	0.1	<0.05	3	<0.5	<0.2
1600117	Rock	0.013	25	4	0.09	50	0.023	<20	0.49	0.038	0.20	0.8	<0.01	1.9	<0.1	<0.05	2	<0.5	<0.2
1600118	Rock	0.015	25	3	0.06	101	0.004	<20	0.35	0.029	0.13	0.4	<0.01	1.5	<0.1	<0.05	1	<0.5	<0.2
1600119	Rock	0.015	25	7	0.11	69	0.014	<20	0.51	0.057	0.19	0.5	0.01	1.7	<0.1	<0.05	2	<0.5	<0.2
1600120	Rock Pulp	0.060	4	30	0.73	94	0.132	<20	1.49	0.073	0.13	12.2	<0.01	4.8	<0.1	<0.05	5	<0.5	<0.2
1600121	Rock	0.013	18	5	0.11	60	0.021	<20	0.44	0.043	0.17	0.9	<0.01	1.7	<0.1	<0.05	2	<0.5	<0.2
1600122	Rock	0.013	26	4	0.12	64	0.036	<20	0.53	0.045	0.25	0.7	<0.01	2.0	0.1	<0.05	3	<0.5	<0.2
1600123	Rock	0.019	32	7	0.22	70	0.039	<20	0.62	0.042	0.26	0.5	0.01	3.0	0.1	<0.05	3	<0.5	<0.2
1600124	Rock	0.016	26	4	0.11	66	0.027	<20	0.49	0.038	0.20	0.7	<0.01	2.1	<0.1	<0.05	2	<0.5	<0.2
1600125	Rock	0.015	21	6	0.12	61	0.024	<20	0.48	0.047	0.18	1.0	<0.01	1.9	<0.1	<0.05	2	<0.5	<0.2
1600126	Rock	0.018	24	8	0.18	69	0.028	<20	0.63	0.044	0.22	0.8	<0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
1600132	Rock	0.014	26	4	0.04	138	0.001	<20	0.35	0.019	0.18	0.4	0.02	1.3	<0.1	<0.05	1	<0.5	<0.2
1600133	Rock	0.016	25	3	0.04	55	0.005	<20	0.54	0.006	0.16	0.4	<0.01	1.6	<0.1	<0.05	2	<0.5	<0.2
1600134	Rock	0.014	28	7	0.04	58	0.002	<20	0.42	0.005	0.15	0.4	<0.01	1.3	<0.1	<0.05	1	<0.5	<0.2
1600135	Rock	0.017	26	5	0.05	71	0.005	<20	0.43	0.027	0.17	0.5	<0.01	1.7	<0.1	<0.05	1	<0.5	<0.2
1600136	Rock	0.014	29	5	0.06	64	0.006	<20	0.37	0.033	0.15	0.7	0.01	1.9	<0.1	<0.05	1	<0.5	<0.2
1600137	Rock	0.018	22	8	0.18	149	0.003	<20	0.40	0.047	0.17	0.7	<0.01	1.4	<0.1	<0.05	1	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1600138	Rock	4.53	<0.005	1.0	8.3	3.0	30	<0.1	1.6	2.5	263	1.01	<0.5	4.1	11.2	61	<0.1	<0.1	<0.1	10	1.46
1600139	Rock	4.84	<0.005	1.3	5.8	3.7	38	<0.1	3.4	3.2	336	1.36	<0.5	3.1	12.0	74	<0.1	0.1	<0.1	14	1.61
1600140	Rock Pulp	0.08	5.063	8.3	202.8	23.6	81	0.7	14.6	11.0	593	4.15	11.7	3977.2	3.0	78	0.2	4.4	0.5	107	0.96
1600141	Rock	3.84	0.008	1.2	5.1	2.7	24	<0.1	1.1	1.8	237	0.86	<0.5	5.4	14.6	46	<0.1	<0.1	<0.1	6	1.15
1600142	Rock	3.54	<0.005	1.3	5.0	3.5	26	<0.1	1.1	1.9	307	0.98	<0.5	6.4	12.4	47	<0.1	<0.1	<0.1	5	1.76
1600143	Rock	4.14	<0.005	1.4	4.2	2.8	26	<0.1	2.5	2.2	313	1.12	<0.5	3.9	14.5	27	<0.1	<0.1	<0.1	7	0.80
1600144	Rock	3.60	0.006	1.4	5.6	2.6	32	<0.1	1.4	2.2	250	1.05	<0.5	3.6	17.2	19	<0.1	0.1	<0.1	7	0.66
1600145	Rock	4.57	<0.005	1.2	5.1	3.0	36	<0.1	1.5	2.2	337	1.09	<0.5	2.3	11.9	27	<0.1	0.1	<0.1	11	1.01
1600146	Rock	4.24	<0.005	1.5	5.8	3.0	35	<0.1	2.3	2.7	274	1.12	<0.5	3.0	12.5	43	<0.1	<0.1	<0.1	7	1.40
1600147	Rock	4.74	<0.005	1.4	5.7	3.1	38	<0.1	1.5	2.3	278	1.09	0.8	3.1	11.1	54	<0.1	0.1	<0.1	8	1.84
1600148	Rock	3.65	<0.005	1.2	4.1	4.4	34	<0.1	1.4	2.3	310	1.02	0.9	2.4	13.2	52	<0.1	<0.1	<0.1	6	1.85
1600149	Rock	4.50	<0.005	1.8	2.6	4.8	32	<0.1	2.6	3.1	416	1.17	<0.5	1.9	13.1	41	<0.1	<0.1	<0.1	6	1.55
1600150	Rock	3.17	<0.005	1.7	2.8	4.8	36	<0.1	1.6	2.7	405	1.11	1.0	3.4	10.4	51	<0.1	<0.1	<0.1	6	2.08
1600151	Rock	2.99	<0.005	2.1	2.9	5.4	41	<0.1	1.3	3.2	467	1.46	1.8	1.9	10.4	60	<0.1	0.1	<0.1	8	2.89
1600152	Rock	4.12	<0.005	2.0	2.7	4.8	30	<0.1	2.1	2.1	354	1.13	1.5	2.0	11.6	76	<0.1	0.1	<0.1	7	2.56
1600153	Rock	4.17	<0.005	1.3	4.2	6.9	22	<0.1	0.9	1.5	356	0.88	0.8	0.9	10.9	166	<0.1	<0.1	<0.1	5	5.22
1600154	Rock	3.61	<0.005	1.7	6.0	4.4	30	<0.1	1.6	2.3	458	1.07	1.0	<0.5	14.7	85	<0.1	<0.1	<0.1	7	2.46
1600155	Rock	4.84	<0.005	1.8	11.2	3.9	45	<0.1	3.1	3.0	325	1.27	1.5	0.9	13.4	65	<0.1	<0.1	<0.1	10	2.16
1600156	Rock	4.00	<0.005	1.7	12.3	4.4	60	<0.1	2.6	2.7	333	1.10	1.7	0.6	8.4	69	0.1	0.1	<0.1	19	2.60
1600157	Rock	2.62	<0.005	2.2	10.9	3.2	64	<0.1	3.5	3.3	338	1.26	1.2	<0.5	12.7	47	<0.1	<0.1	<0.1	17	1.31
1600158	Rock	3.09	<0.005	3.3	11.2	2.7	35	<0.1	4.3	2.9	259	1.17	0.6	1.9	13.6	8	<0.1	0.2	<0.1	12	0.13
1600159	Rock	5.20	<0.005	1.1	8.2	2.7	30	<0.1	2.6	2.5	256	1.00	<0.5	1.2	7.6	20	<0.1	<0.1	<0.1	11	0.37
1600160	Rock Pulp	0.09	0.530	6.3	288.0	15.2	50	0.6	109.3	15.3	434	2.83	173.3	464.0	3.4	73	0.3	1.8	0.1	63	1.69
1600161	Rock	5.63	<0.005	1.2	8.8	2.2	23	<0.1	1.7	2.6	231	1.03	0.5	1.0	13.1	19	<0.1	<0.1	<0.1	9	0.77
1600162	Rock	3.15	<0.005	1.7	13.3	3.4	25	<0.1	4.0	2.9	281	1.35	0.6	<0.5	13.7	29	<0.1	<0.1	<0.1	9	0.88
1600163	Rock	3.39	<0.005	1.3	6.6	3.4	25	<0.1	1.2	2.7	329	1.22	<0.5	<0.5	13.4	30	<0.1	<0.1	<0.1	10	1.16
1600164	Rock	3.63	<0.005	1.6	9.9	3.4	25	<0.1	3.4	2.8	240	1.33	0.5	1.3	12.4	14	<0.1	0.1	<0.1	9	0.74
1600165	Rock	3.16	0.006	1.4	10.4	4.3	17	<0.1	1.2	2.1	183	0.90	0.5	4.4	13.8	16	<0.1	<0.1	<0.1	4	1.25
1600166	Rock	3.61	<0.005	1.6	4.6	4.2	16	<0.1	2.3	1.9	260	0.98	<0.5	1.2	13.4	13	<0.1	<0.1	<0.1	5	0.46
1600167	Rock	3.95	<0.005	1.4	5.6	4.4	23	<0.1	1.0	2.2	394	1.04	<0.5	1.8	12.0	28	<0.1	<0.1	<0.1	9	0.72



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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA530
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9
1600138	Rock	0.027	22	6	0.12	72	0.003	<20	0.43	0.050	0.15	0.5	<0.01	1.8	<0.1	<0.05	2	<0.5	<0.2
1600139	Rock	0.031	23	9	0.19	43	0.004	<20	0.49	0.041	0.14	0.6	<0.01	2.7	<0.1	<0.05	2	<0.5	<0.2
1600140	Rock Pulp	0.060	8	19	0.88	135	0.152	<20	1.79	0.187	0.23	5.2	0.17	3.6	<0.1	<0.05	5	<0.5	<0.2
1600141	Rock	0.017	25	6	0.08	31	0.003	<20	0.37	0.035	0.16	0.5	<0.01	1.7	<0.1	<0.05	1	<0.5	<0.2
1600142	Rock	0.013	25	5	0.06	60	0.002	<20	0.37	0.029	0.15	0.4	<0.01	1.5	<0.1	<0.05	1	<0.5	<0.2
1600143	Rock	0.018	25	8	0.12	57	0.005	<20	0.58	0.033	0.15	0.3	<0.01	1.8	<0.1	<0.05	2	<0.5	<0.2
1600144	Rock	0.016	28	7	0.15	36	0.003	<20	0.44	0.041	0.13	0.6	<0.01	2.1	<0.1	<0.05	2	<0.5	<0.2
1600145	Rock	0.023	22	5	0.12	72	0.004	<20	0.49	0.048	0.17	0.3	<0.01	1.7	<0.1	<0.05	2	<0.5	<0.2
1600146	Rock	0.021	26	8	0.10	57	0.006	<20	0.46	0.032	0.17	0.4	<0.01	1.7	<0.1	<0.05	2	<0.5	<0.2
1600147	Rock	0.025	23	7	0.08	58	0.003	<20	0.43	0.038	0.19	0.4	0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
1600148	Rock	0.018	26	6	0.06	74	0.002	<20	0.33	0.025	0.18	0.4	<0.01	1.6	<0.1	<0.05	1	<0.5	<0.2
1600149	Rock	0.018	25	8	0.06	179	0.002	<20	0.41	0.043	0.19	0.3	<0.01	1.4	<0.1	<0.05	1	<0.5	<0.2
1600150	Rock	0.017	23	5	0.06	402	<0.001	<20	0.33	0.027	0.17	0.3	<0.01	1.0	<0.1	<0.05	1	<0.5	<0.2
1600151	Rock	0.018	25	5	0.08	286	0.001	<20	0.43	0.020	0.14	0.4	<0.01	1.6	<0.1	<0.05	1	<0.5	<0.2
1600152	Rock	0.015	25	8	0.06	187	0.001	<20	0.34	0.022	0.12	0.4	<0.01	2.0	<0.1	<0.05	1	<0.5	<0.2
1600153	Rock	0.012	24	5	0.08	101	0.002	<20	0.33	0.021	0.11	0.3	<0.01	1.6	<0.1	<0.05	1	<0.5	<0.2
1600154	Rock	0.017	30	5	0.09	101	0.006	<20	0.38	0.026	0.13	0.4	<0.01	2.1	<0.1	<0.05	2	<0.5	<0.2
1600155	Rock	0.018	26	9	0.10	69	0.008	<20	0.51	0.024	0.14	0.3	<0.01	2.2	<0.1	<0.05	2	<0.5	<0.2
1600156	Rock	0.033	20	9	0.14	68	0.013	<20	0.54	0.019	0.17	0.4	0.01	3.5	<0.1	<0.05	3	<0.5	<0.2
1600157	Rock	0.026	26	14	0.20	74	0.036	<20	0.71	0.040	0.30	1.0	<0.01	3.5	0.1	<0.05	4	<0.5	<0.2
1600158	Rock	0.019	25	6	0.21	61	0.042	<20	0.63	0.030	0.28	0.8	<0.01	2.1	0.1	<0.05	3	<0.5	<0.2
1600159	Rock	0.016	17	5	0.23	70	0.038	<20	0.62	0.051	0.27	1.3	<0.01	1.9	0.1	<0.05	3	<0.5	<0.2
1600160	Rock Pulp	0.032	9	106	1.38	122	0.094	<20	2.57	0.297	0.21	0.9	0.03	3.1	<0.1	0.11	5	<0.5	<0.2
1600161	Rock	0.016	25	3	0.17	54	0.035	<20	0.50	0.040	0.26	1.1	<0.01	1.8	0.1	<0.05	2	<0.5	<0.2
1600162	Rock	0.019	30	7	0.16	84	0.039	<20	0.68	0.042	0.31	0.8	<0.01	2.3	0.1	<0.05	3	<0.5	<0.2
1600163	Rock	0.023	27	2	0.17	82	0.035	<20	0.68	0.026	0.30	0.6	<0.01	2.2	0.1	<0.05	3	<0.5	<0.2
1600164	Rock	0.023	26	6	0.12	63	0.020	<20	0.63	0.028	0.26	0.5	<0.01	1.9	0.1	<0.05	2	<0.5	<0.2
1600165	Rock	0.013	27	2	0.06	49	0.003	<20	0.40	0.020	0.18	0.5	<0.01	1.0	<0.1	<0.05	1	<0.5	<0.2
1600166	Rock	0.014	29	5	0.06	60	0.013	<20	0.50	0.031	0.20	0.5	<0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
1600167	Rock	0.021	25	2	0.14	86	0.028	<20	0.57	0.021	0.24	0.8	<0.01	1.8	<0.1	<0.05	2	<0.5	<0.2

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1600173	Rock	3.23	<0.005	2.2	4.9	6.1	40	<0.1	1.4	4.3	674	1.74	<0.5	<0.5	9.8	92	<0.1	0.2	<0.1	21	2.55
1600174	Rock	3.49	<0.005	0.6	2.9	3.6	49	<0.1	1.5	7.2	761	2.66	<0.5	<0.5	7.8	97	<0.1	<0.1	<0.1	43	1.38
1600175	Rock	3.50	<0.005	1.0	5.2	3.5	48	<0.1	2.6	6.2	771	2.50	<0.5	<0.5	7.1	81	<0.1	<0.1	<0.1	37	1.73
1600176	Rock	3.12	<0.005	1.5	3.8	4.4	55	<0.1	2.0	6.4	869	2.48	<0.5	<0.5	8.6	75	0.1	<0.1	<0.1	34	2.57
1600177	Rock	2.94	<0.005	2.5	3.7	6.4	34	<0.1	1.3	3.2	577	1.50	<0.5	3.0	10.4	93	<0.1	<0.1	<0.1	11	4.57
1600178	Rock	3.68	<0.005	0.9	3.7	3.1	23	<0.1	2.3	2.0	307	0.99	<0.5	0.9	14.1	40	<0.1	<0.1	<0.1	9	1.20
1600179	Rock	3.35	<0.005	1.3	2.9	3.9	23	<0.1	1.0	2.2	346	1.09	<0.5	<0.5	14.0	40	<0.1	<0.1	<0.1	9	1.59
1600180	Rock Pulp	0.13	<0.005	2.4	25.0	2.4	43	0.2	23.2	10.2	390	2.42	4.6	3.8	0.9	40	0.3	0.3	<0.1	57	0.79
1600181	Rock	3.21	<0.005	1.3	2.7	3.8	27	<0.1	1.0	1.9	409	1.02	<0.5	<0.5	13.9	44	<0.1	<0.1	<0.1	8	1.64
1600182	Rock	3.20	<0.005	1.3	1.7	5.5	117	<0.1	2.0	2.1	588	1.71	<0.5	<0.5	17.1	37	0.1	0.1	0.4	14	1.39
1600183	Rock	3.06	<0.005	0.9	4.7	4.3	47	<0.1	1.0	2.0	412	1.11	<0.5	<0.5	15.3	50	0.1	<0.1	<0.1	8	1.17
1600184	Rock	3.21	<0.005	1.0	8.3	3.0	28	<0.1	1.1	2.4	258	1.17	<0.5	3.1	15.6	17	<0.1	<0.1	<0.1	9	0.41
1600185	Rock	3.63	<0.005	1.2	5.4	2.3	25	<0.1	2.4	2.4	290	1.26	<0.5	<0.5	14.6	18	<0.1	<0.1	<0.1	10	0.52
1600186	Rock	3.25	<0.005	1.4	5.9	3.9	32	<0.1	1.2	2.5	392	1.18	0.8	<0.5	12.6	31	<0.1	<0.1	<0.1	9	1.60
1600187	Rock	3.10	<0.005	1.4	3.5	2.1	21	<0.1	3.0	1.8	266	0.98	<0.5	<0.5	15.4	13	<0.1	<0.1	<0.1	8	0.42
1600188	Rock	3.40	<0.005	1.8	4.1	1.9	36	<0.1	2.6	3.9	470	1.67	<0.5	<0.5	14.5	20	<0.1	<0.1	<0.1	19	0.56
1600189	Rock	3.83	<0.005	1.3	9.6	2.0	62	<0.1	1.4	11.7	1132	3.64	<0.5	<0.5	4.4	102	<0.1	<0.1	<0.1	75	1.99
1600190	Rock	1.70	<0.005	0.9	8.3	1.9	66	<0.1	2.3	12.1	1122	3.89	<0.5	<0.5	5.1	67	<0.1	<0.1	<0.1	80	1.29



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA530
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t	
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.9	
1600173	Rock	0.030	26	3	0.26	150	0.056	<20	0.89	0.023	0.40	0.4	<0.01	3.1	0.1	<0.05	3	<0.5	<0.2	
1600174	Rock	0.079	30	3	0.61	189	0.172	<20	1.64	0.030	0.93	0.3	<0.01	4.8	0.3	<0.05	6	<0.5	<0.2	
1600175	Rock	0.064	29	6	0.53	163	0.144	<20	1.29	0.045	0.81	0.5	<0.01	4.5	0.3	<0.05	6	<0.5	<0.2	
1600176	Rock	0.064	34	4	0.51	190	0.146	<20	1.51	0.027	0.82	0.3	<0.01	5.6	0.3	<0.05	6	<0.5	<0.2	
1600177	Rock	0.019	27	3	0.13	103	0.017	<20	0.51	0.019	0.21	0.3	<0.01	2.0	<0.1	<0.05	2	<0.5	<0.2	
1600178	Rock	0.015	26	6	0.15	51	0.035	<20	0.65	0.028	0.29	0.6	<0.01	1.8	0.1	<0.05	3	<0.5	<0.2	
1600179	Rock	0.015	30	3	0.15	62	0.035	<20	0.63	0.014	0.27	0.7	<0.01	2.2	0.1	<0.05	3	<0.5	<0.2	
1600180	Rock Pulp	0.062	4	31	0.77	95	0.124	<20	1.48	0.074	0.13	12.3	0.01	5.2	<0.1	<0.05	5	<0.5	<0.2	
1600181	Rock	0.013	27	3	0.15	59	0.031	<20	0.67	0.019	0.25	0.8	<0.01	2.2	<0.1	<0.05	3	<0.5	<0.2	
1600182	Rock	0.018	34	5	0.28	62	0.039	<20	0.90	0.025	0.35	0.4	<0.01	2.6	0.2	<0.05	4	<0.5	<0.2	
1600183	Rock	0.014	33	4	0.16	51	0.039	<20	0.77	0.025	0.29	0.6	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2	
1600184	Rock	0.015	30	4	0.16	52	0.039	<20	0.62	0.040	0.29	0.7	<0.01	2.3	0.1	<0.05	3	<0.5	<0.2	
1600185	Rock	0.016	31	7	0.17	55	0.048	<20	0.74	0.041	0.34	0.7	<0.01	2.4	0.1	<0.05	3	<0.5	<0.2	
1600186	Rock	0.016	29	4	0.14	75	0.024	<20	0.55	0.025	0.22	0.6	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2	
1600187	Rock	0.012	26	7	0.15	50	0.037	<20	0.57	0.038	0.27	0.8	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2	
1600188	Rock	0.022	28	9	0.42	101	0.078	<20	0.90	0.042	0.50	1.2	<0.01	3.1	0.2	<0.05	4	<0.5	<0.2	
1600189	Rock	0.063	16	5	1.15	469	0.197	<20	1.84	0.050	1.07	0.4	<0.01	9.2	0.2	<0.05	7	<0.5	<0.2	
1600190	Rock	0.058	14	5	1.29	492	0.221	<20	2.22	0.045	1.28	0.3	<0.01	9.6	0.2	<0.05	9	<0.5	<0.2	



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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm		
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
1540139	Rock	3.78	<0.005	2.4	10.5	8.0	56	<0.1	1.3	4.4	752	1.97	0.6	<0.5	9.7	78	0.3	0.2	0.2	19	1.75
REP 1540139	QC	<0.005																			
1540141	Rock	3.60	0.009	1.8	18.0	6.9	51	<0.1	1.4	3.7	590	1.63	0.6	1.7	9.1	60	0.1	0.2	0.3	16	1.20
REP 1540141	QC	2.0 17.9 6.8 49 <0.1 1.6 3.7 590 1.64 0.6 0.6 9.0 60 0.2 0.2 0.3 17 1.21																			
1540153	Rock	3.82	<0.005	2.0	3.4	2.4	40	<0.1	1.4	4.9	496	1.95	<0.5	<0.5	10.1	50	<0.1	0.2	<0.1	23	0.96
REP 1540153	QC	2.0 3.3 2.3 39 <0.1 1.5 4.7 489 1.89 <0.5 <0.5 10.5 48 <0.1 0.2 <0.1 23 0.93																			
1540160	Rock Pulp	0.12	<0.005	2.2	24.9	2.4	43	0.3	22.9	9.7	384	2.35	4.8	<0.5	0.9	39	0.2	0.3	<0.1	56	0.78
REP 1540160	QC	<0.005																			
1540216	Rock	4.23	0.005	2.1	5.6	3.7	54	<0.1	1.9	6.6	815	2.04	0.6	2.1	10.2	62	<0.1	<0.1	<0.1	30	0.76
REP 1540216	QC	1.9 5.1 3.6 50 <0.1 1.7 6.4 752 2.04 0.6 2.9 9.6 60 <0.1 <0.1 <0.1 29 0.76																			
1600116	Rock	4.76	0.031	1.5	5.4	2.4	24	<0.1	2.3	2.3	272	1.12	<0.5	26.8	13.7	20	<0.1	<0.1	<0.1	10	0.64
REP 1600116	QC	0.029																			
1600125	Rock	4.41	0.008	1.2	7.8	2.0	19	<0.1	1.2	1.6	205	0.93	<0.5	11.1	15.0	17	<0.1	<0.1	<0.1	8	0.43
REP 1600125	QC	1.2 7.5 1.9 20 <0.1 1.3 1.8 204 0.92 <0.5 12.0 15.4 17 <0.1 <0.1 <0.1 8 0.43																			
1600142	Rock	3.54	<0.005	1.3	5.0	3.5	26	<0.1	1.1	1.9	307	0.98	<0.5	6.4	12.4	47	<0.1	<0.1	<0.1	5	1.76
REP 1600142	QC	<0.005																			
1600165	Rock	3.16	0.006	1.4	10.4	4.3	17	<0.1	1.2	2.1	183	0.90	0.5	4.4	13.8	16	<0.1	<0.1	<0.1	4	1.25
REP 1600165	QC	1.5 9.6 4.2 15 <0.1 1.2 2.1 181 0.86 0.5 4.4 13.3 16 <0.1 <0.1 <0.1 4 1.19																			
Core Reject Duplicates																					
1540158	Rock	3.46	<0.005	1.7	9.7	3.2	41	<0.1	1.7	5.2	422	1.94	0.5	<0.5	9.7	45	<0.1	0.2	<0.1	25	0.82
DUP 1540158	QC	<0.005 1.7 9.6 3.1 41 <0.1 1.4 4.6 418 1.87 <0.5 <0.5 9.8 44 <0.1 0.2 <0.1 23 0.80																			
1600072	Rock	3.28	<0.005	1.4	5.8	3.7	42	<0.1	1.5	4.5	585	1.65	<0.5	<0.5	11.3	56	<0.1	<0.1	<0.1	23	1.53
DUP 1600072	QC	<0.005 1.6 5.3 3.7 42 <0.1 1.7 4.3 620 1.67 <0.5 <0.5 10.8 51 <0.1 <0.1 <0.1 24 1.53																			
1600135	Rock	4.04	<0.005	1.1	4.2	3.9	23	<0.1	1.1	2.3	312	0.90	<0.5	3.6	13.3	40	<0.1	<0.1	<0.1	5	1.86
DUP 1600135	QC	<0.005 0.9 4.8 3.8 23 <0.1 1.0 2.2 318 0.92 <0.5 4.1 13.5 39 <0.1 <0.1 <0.1 5 1.87																			
1600174	Rock	3.49	<0.005	0.6	2.9	3.6	49	<0.1	1.5	7.2	761	2.66	<0.5	<0.5	7.8	97	<0.1	<0.1	<0.1	43	1.38
DUP 1600174	QC	<0.005 0.8 2.5 3.5 53 <0.1 1.9 7.2 748 2.70 <0.5 <0.5 7.6 98 <0.1 <0.1 <0.1 43 1.40																			
Reference Materials																					



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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA530
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9
Pulp Duplicates																			
1540139	Rock	0.033	29	5	0.28	130	0.030	<20	0.69	0.033	0.24	0.5	<0.01	4.0	<0.1	<0.05	3	<0.5	<0.2
REP 1540139	QC																		
1540141	Rock	0.032	28	5	0.15	106	0.024	<20	0.53	0.034	0.20	0.5	<0.01	3.7	<0.1	<0.05	2	<0.5	<0.2
REP 1540141	QC	0.032	27	6	0.15	110	0.024	<20	0.53	0.035	0.20	0.5	<0.01	3.7	<0.1	<0.05	2	<0.5	<0.2
1540153	Rock	0.036	26	7	0.35	90	0.059	<20	0.78	0.039	0.35	0.4	<0.01	4.7	0.1	<0.05	4	<0.5	<0.2
REP 1540153	QC	0.035	26	7	0.34	89	0.056	<20	0.77	0.037	0.34	0.4	<0.01	4.3	0.1	<0.05	4	<0.5	<0.2
1540160	Rock Pulp	0.057	4	31	0.74	95	0.122	<20	1.48	0.074	0.13	12.5	0.01	4.8	<0.1	<0.05	5	<0.5	<0.2
REP 1540160	QC																		
1540216	Rock	0.034	27	6	0.48	206	0.097	<20	1.25	0.048	0.50	0.5	<0.01	4.5	0.1	<0.05	6	<0.5	<0.2
REP 1540216	QC	0.033	25	5	0.48	192	0.094	<20	1.24	0.047	0.50	0.4	<0.01	4.7	0.1	<0.05	6	<0.5	<0.2
1600116	Rock	0.016	26	7	0.15	72	0.037	<20	0.52	0.047	0.25	1.1	0.01	2.1	0.1	<0.05	3	<0.5	<0.2
REP 1600116	QC																		
1600125	Rock	0.015	21	6	0.12	61	0.024	<20	0.48	0.047	0.18	1.0	<0.01	1.9	<0.1	<0.05	2	<0.5	<0.2
REP 1600125	QC	0.015	22	5	0.12	65	0.024	<20	0.48	0.046	0.18	1.2	0.01	1.9	<0.1	<0.05	2	<0.5	<0.2
1600142	Rock	0.013	25	5	0.06	60	0.002	<20	0.37	0.029	0.15	0.4	<0.01	1.5	<0.1	<0.05	1	<0.5	<0.2
REP 1600142	QC																		
1600165	Rock	0.013	27	2	0.06	49	0.003	<20	0.40	0.020	0.18	0.5	<0.01	1.0	<0.1	<0.05	1	<0.5	<0.2
REP 1600165	QC	0.013	26	2	0.05	48	0.003	<20	0.38	0.019	0.17	0.6	<0.01	0.9	<0.1	<0.05	1	<0.5	<0.2
Core Reject Duplicates																			
1540158	Rock	0.035	29	8	0.26	44	0.017	<20	0.59	0.031	0.17	0.4	<0.01	4.2	<0.1	<0.05	3	<0.5	<0.2
DUP 1540158	QC	0.033	29	8	0.26	45	0.018	<20	0.60	0.031	0.17	0.4	<0.01	4.5	<0.1	<0.05	3	<0.5	<0.2
1600072	Rock	0.035	27	3	0.33	150	0.080	<20	1.07	0.013	0.51	0.5	<0.01	3.7	0.2	<0.05	4	<0.5	<0.2
DUP 1600072	QC	0.040	26	3	0.34	136	0.079	<20	1.26	0.014	0.54	0.5	<0.01	3.8	0.2	<0.05	4	<0.5	<0.2
1600135	Rock	0.017	26	5	0.05	71	0.005	<20	0.43	0.027	0.17	0.5	<0.01	1.7	<0.1	<0.05	1	<0.5	<0.2
DUP 1600135	QC	0.016	26	5	0.05	73	0.005	<20	0.49	0.030	0.19	0.4	<0.01	1.7	<0.1	<0.05	2	<0.5	<0.2
1600174	Rock	0.079	30	3	0.61	189	0.172	<20	1.64	0.030	0.93	0.3	<0.01	4.8	0.3	<0.05	6	<0.5	<0.2
DUP 1600174	QC	0.078	30	3	0.61	182	0.165	<20	1.63	0.028	0.94	0.4	<0.01	4.6	0.3	<0.05	7	<0.5	<0.2
Reference Materials																			



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		WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
STD AGPROOF	Standard																				
STD DS10	Standard			14.0	150.2	144.0	342	1.7	71.1	11.7	849	2.71	46.1	63.8	7.2	67	2.8	8.3	12.9	41	1.03
STD DS10	Standard			12.5	155.4	134.7	341	1.8	77.2	12.1	885	2.77	43.1	60.6	7.5	63	2.6	8.7	11.8	43	1.05
STD DS10	Standard			13.9	166.8	147.7	374	1.8	80.8	13.5	866	2.82	47.2	54.9	7.7	69	2.9	9.1	13.4	41	1.07
STD DS10	Standard			12.7	153.6	146.6	365	1.7	75.9	12.5	880	2.67	46.1	50.4	7.4	69	2.7	7.5	12.7	42	1.05
STD DS10	Standard			13.4	147.5	152.5	353	1.8	73.2	12.3	850	2.65	43.5	56.3	7.4	69	2.2	11.1	13.0	40	1.02
STD OREAS45EA	Standard			1.5	661.3	13.7	30	0.2	364.4	49.5	374	20.56	10.5	45.1	9.9	4	<0.1	0.4	0.2	297	0.04
STD OREAS45EA	Standard			1.6	700.6	14.2	33	0.2	402.1	49.7	438	24.80	11.6	47.8	10.6	4	<0.1	0.4	0.3	307	0.03
STD OREAS45EA	Standard			1.6	676.0	14.6	31	0.2	376.1	51.0	383	21.52	11.2	58.6	10.6	4	<0.1	0.4	0.3	304	0.04
STD OREAS45EA	Standard			1.5	696.5	14.2	31	0.2	367.5	50.4	394	21.47	10.9	48.3	10.2	4	<0.1	0.3	0.3	301	0.03
STD OREAS45EA	Standard			1.6	677.8	14.2	30	0.2	372.0	49.0	391	20.86	11.3	45.2	10.5	4	<0.1	0.5	0.3	300	0.04
STD OXC145	Standard		0.202																		
STD OXC145	Standard		0.203																		
STD OXH122	Standard		1.208																		
STD OXH122	Standard		1.230																		
STD OXN117	Standard		7.643																		
STD OXN117	Standard		7.377																		
STD SP49	Standard																				
STD SQ70	Standard																				
STD OXN117 Expected			7.679																		
STD OXC145 Expected			0.212																		
STD OXH122 Expected			1.247																		
STD DS10 Expected				13.6	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625
STD OREAS45EA Expected				1.6	709	14.3	31.4	0.26	381	52	400	23.51	10.3	53	10.7	3.5	0.03	0.32	0.26	303	0.036
STD AGPROOF Expected																					
STD SP49 Expected																					
STD SQ70 Expected																					
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01



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		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA530
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9
STD AGPROOF	Standard																			<0.9
STD DS10	Standard	0.076	17	54	0.74	414	0.079	<20	1.00	0.067	0.33	3.0	0.30	3.0	4.9	0.28	4	2.1	5.0	
STD DS10	Standard	0.072	17	51	0.76	396	0.083	<20	1.02	0.069	0.33	3.3	0.24	3.1	5.0	0.27	4	1.7	4.7	
STD DS10	Standard	0.078	18	58	0.77	415	0.077	<20	1.01	0.067	0.34	3.4	0.28	2.8	5.4	0.29	4	2.1	5.1	
STD DS10	Standard	0.078	18	55	0.76	416	0.079	<20	1.02	0.066	0.33	2.9	0.33	2.8	4.9	0.28	4	2.2	4.8	
STD DS10	Standard	0.076	17	52	0.74	415	0.080	<20	0.97	0.066	0.32	3.1	0.27	2.7	5.0	0.28	4	2.1	4.9	
STD OREAS45EA	Standard	0.028	7	808	0.09	140	0.095	<20	3.06	0.015	0.05	<0.1	<0.01	74.3	<0.1	<0.05	12	0.9	<0.2	
STD OREAS45EA	Standard	0.026	7	817	0.10	147	0.100	<20	3.34	0.021	0.05	<0.1	<0.01	81.5	<0.1	<0.05	13	0.7	<0.2	
STD OREAS45EA	Standard	0.029	7	803	0.09	149	0.097	<20	3.16	0.015	0.05	<0.1	<0.01	77.4	<0.1	<0.05	12	0.9	<0.2	
STD OREAS45EA	Standard	0.029	7	828	0.09	144	0.102	<20	3.23	0.024	0.05	<0.1	0.01	78.6	<0.1	<0.05	12	0.5	<0.2	
STD OREAS45EA	Standard	0.028	7	741	0.10	142	0.103	<20	3.11	0.016	0.05	<0.1	0.01	76.6	<0.1	<0.05	12	0.9	<0.2	
STD OXC145	Standard																			
STD OXC145	Standard																			
STD OXH122	Standard																			
STD OXH122	Standard																			
STD OXN117	Standard																			
STD OXN117	Standard																			
STD SP49	Standard																			18.0
STD SQ70	Standard																			39.7
STD OXN117 Expected																				
STD OXC145 Expected																				
STD OXH122 Expected																				
STD DS10 Expected		0.0765	17.5	54.6	0.775	412	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3	2.3	5.01	
STD OREAS45EA Expected		0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053			78	0.072	0.036	12.4	0.78	0.07	
STD AGPROOF Expected																				0
STD SP49 Expected																				18.34
STD SQ70 Expected																				39.62
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	



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		WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		<0.005	0.7	3.6	1.1	30	<0.1	0.9	3.4	414	1.61	0.8	1.0	2.3	23	<0.1	<0.1	<0.1	21	0.55
ROCK-WHI	Prep Blank		<0.005	0.6	4.4	1.2	30	<0.1	0.8	3.5	403	1.69	1.2	0.6	2.3	25	<0.1	<0.1	<0.1	22	0.58



Bureau Veritas Commodities Canada Ltd.
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Project: LOO
Report Date: July 12, 2017

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QUALITY CONTROL REPORT

WHI17000128.1

		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	FA530		
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au	
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t	
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2		
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2		
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2		
BLK	Blank																				<0.9
Prep Wash																					
ROCK-WHI	Prep Blank	0.040	5	3	0.37	54	0.068	<20	0.82	0.063	0.07	0.1	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2		
ROCK-WHI	Prep Blank	0.039	5	4	0.39	63	0.077	<20	0.83	0.069	0.08	0.1	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2		



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Submitted By: Jodie Gibson
Receiving Lab: Canada-Whitehorse
Received: June 21, 2017
Report Date: July 07, 2017
Page: 1 of 3

CERTIFICATE OF ANALYSIS

WHI17000129.1

CLIENT JOB INFORMATION

Project: LOO
Shipment ID: LOO-20170619-001-ROCK
P.O. Number
Number of Samples: 60

SAMPLE DISPOSAL

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

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

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

CC: Isaac Fage
Shawn Ryan

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	57	Crush, split and pulverize 250 g rock to 200 mesh			WHI
SLBHP	3	Sort, label and box pulps			WHI
FA430	60	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	60	Environmental disposal charge-Fire assay lead waste			VAN
AQ200	60	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	60	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



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



Bureau Veritas Commodities Canada Ltd.

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Project: LOO
Report Date: July 07, 2017

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CERTIFICATE OF ANALYSIS

WHI17000129.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1600191	Rock	3.75	<0.005	1.3	10.9	1.8	64	<0.1	3.6	11.5	997	3.52	<0.5	<0.5	3.8	64	<0.1	<0.1	<0.1	74	1.26
1600192	Rock	3.41	<0.005	1.2	7.2	1.5	57	<0.1	1.9	12.4	902	3.48	<0.5	<0.5	3.8	69	<0.1	<0.1	<0.1	70	1.29
1600193	Rock	3.42	<0.005	1.2	13.2	2.0	65	<0.1	2.5	11.4	997	4.19	<0.5	<0.5	4.4	73	<0.1	<0.1	<0.1	75	1.88
1600194	Rock	3.99	<0.005	1.3	6.9	1.9	39	<0.1	4.7	6.1	717	2.14	0.5	0.7	8.2	49	<0.1	<0.1	<0.1	40	1.63
1600195	Rock	3.68	0.012	1.2	5.8	2.8	42	<0.1	1.7	5.5	640	2.17	0.6	7.3	7.0	69	<0.1	<0.1	<0.1	28	2.46
1600196	Rock	3.54	<0.005	2.1	7.4	2.3	37	<0.1	1.7	4.4	518	1.91	0.6	<0.5	8.9	58	<0.1	<0.1	<0.1	22	1.22
1600197	Rock	3.48	<0.005	1.3	5.3	2.8	44	<0.1	4.2	6.3	584	2.08	<0.5	<0.5	8.0	59	<0.1	<0.1	<0.1	31	1.72
1600198	Rock	3.91	<0.005	1.7	4.6	2.7	38	<0.1	1.9	4.5	564	1.88	0.5	<0.5	10.5	74	<0.1	<0.1	<0.1	22	1.85
1600199	Rock	3.45	<0.005	1.9	4.1	2.6	40	<0.1	1.5	5.0	564	1.96	0.5	<0.5	9.8	67	<0.1	<0.1	<0.1	24	1.63
1600200	Rock Pulp	0.09	5.088	7.7	199.0	21.9	77	1.0	15.2	12.0	568	4.08	12.0	5699.1	2.8	72	0.2	3.9	0.5	100	0.89
1600201	Rock	3.94	<0.005	1.2	8.8	2.9	45	<0.1	2.8	5.4	555	2.00	1.0	<0.5	9.8	48	<0.1	0.1	<0.1	27	1.45
1600202	Rock	3.82	<0.005	1.3	22.9	3.5	41	<0.1	1.5	4.3	525	1.81	<0.5	<0.5	10.4	93	<0.1	<0.1	0.5	22	2.04
1600203	Rock	3.97	<0.005	1.2	7.2	4.1	38	<0.1	1.2	4.2	568	1.84	<0.5	<0.5	9.0	101	<0.1	<0.1	0.2	22	2.85
1600204	Rock	3.60	<0.005	1.4	10.2	2.8	39	<0.1	1.7	4.2	488	1.73	<0.5	2.1	8.9	52	<0.1	<0.1	0.2	22	1.45
1600205	Rock	3.65	0.006	1.4	6.3	2.9	44	<0.1	1.7	4.4	479	1.81	0.5	1.7	10.2	56	<0.1	0.4	<0.1	20	1.68
1600206	Rock	3.60	<0.005	1.1	3.8	2.6	34	<0.1	1.4	3.9	383	1.61	<0.5	1.7	7.8	41	<0.1	<0.1	<0.1	19	1.20
1600207	Rock	4.14	<0.005	1.4	13.9	2.8	36	<0.1	1.7	3.8	390	1.54	<0.5	0.8	7.9	46	<0.1	<0.1	0.3	17	1.13
1600208	Rock	4.14	<0.005	1.1	15.6	3.3	42	<0.1	1.6	4.5	546	1.86	<0.5	1.6	9.9	65	<0.1	<0.1	0.3	21	1.66
1600209	Rock	3.99	<0.005	1.4	8.2	3.7	41	<0.1	1.6	4.9	593	1.91	<0.5	0.8	9.4	87	<0.1	<0.1	<0.1	22	2.06
1600210	Rock	3.37	<0.005	1.4	4.0	2.7	43	<0.1	1.7	4.6	488	1.86	0.9	<0.5	10.5	51	<0.1	0.1	<0.1	23	1.24
1600211	Rock	4.96	<0.005	1.7	5.9	2.1	48	<0.1	2.0	4.7	474	1.91	<0.5	0.8	9.2	35	<0.1	<0.1	<0.1	23	0.86
1600212	Rock	3.74	<0.005	1.8	5.8	3.0	46	<0.1	2.7	4.9	533	1.89	0.8	2.0	9.6	58	<0.1	<0.1	<0.1	22	1.53
1600213	Rock	4.16	<0.005	1.5	7.4	3.0	41	<0.1	2.1	4.5	510	1.81	0.9	<0.5	8.5	67	<0.1	<0.1	<0.1	22	1.81
1600214	Rock	4.27	<0.005	1.8	8.4	2.7	43	<0.1	2.4	4.8	494	1.82	<0.5	<0.5	10.4	60	<0.1	<0.1	<0.1	21	1.50
1600215	Rock	4.13	<0.005	1.3	7.3	2.8	41	<0.1	2.6	5.0	554	1.87	<0.5	<0.5	9.0	79	<0.1	<0.1	<0.1	24	1.92
1600216	Rock	3.88	<0.005	1.9	8.6	3.0	46	<0.1	2.1	5.3	579	1.93	<0.5	<0.5	7.4	89	<0.1	<0.1	0.1	26	1.93
1600217	Rock	4.08	<0.005	2.0	8.3	2.0	48	<0.1	2.3	4.6	509	1.90	<0.5	<0.5	9.9	43	<0.1	<0.1	<0.1	27	0.79
1600218	Rock	4.47	<0.005	1.9	7.5	2.6	48	<0.1	2.3	5.0	498	1.91	<0.5	<0.5	10.4	52	<0.1	<0.1	<0.1	24	1.08
1600219	Rock	4.44	<0.005	2.4	3.4	2.7	44	<0.1	2.3	4.1	410	1.57	<0.5	<0.5	7.2	57	<0.1	<0.1	<0.1	19	1.21
1600220	Rock Pulp	0.15	<0.005	2.3	26.0	2.2	41	0.3	23.3	9.9	387	2.28	4.7	<0.5	0.9	39	0.2	0.3	<0.1	55	0.76



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Project: LOO
Report Date: July 07, 2017

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CERTIFICATE OF ANALYSIS

WHI17000129.1

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
1600191	Rock	0.061	12	14	1.20	498	0.216	<20	1.84	0.049	1.18	0.5	<0.01	6.5	0.2	<0.05	7	<0.5	<0.2
1600192	Rock	0.061	13	7	1.20	487	0.225	<20	1.81	0.056	1.18	0.5	<0.01	6.5	0.3	<0.05	7	<0.5	<0.2
1600193	Rock	0.061	16	9	1.15	294	0.187	<20	1.80	0.038	1.08	0.3	<0.01	10.7	0.2	<0.05	7	<0.5	<0.2
1600194	Rock	0.039	21	13	0.58	211	0.129	<20	1.14	0.041	0.68	0.7	<0.01	5.0	0.2	<0.05	5	<0.5	<0.2
1600195	Rock	0.036	23	6	0.40	146	0.067	<20	0.85	0.035	0.40	0.5	<0.01	5.5	0.1	<0.05	4	<0.5	<0.2
1600196	Rock	0.032	29	8	0.32	88	0.056	<20	0.71	0.044	0.30	0.5	<0.01	4.3	<0.1	<0.05	4	<0.5	<0.2
1600197	Rock	0.053	23	12	0.56	108	0.058	<20	1.00	0.043	0.37	0.5	<0.01	4.7	0.1	<0.05	5	<0.5	<0.2
1600198	Rock	0.034	29	8	0.34	101	0.084	<20	0.88	0.050	0.42	0.6	<0.01	4.5	0.1	<0.05	4	<0.5	<0.2
1600199	Rock	0.033	30	8	0.34	96	0.087	<20	0.84	0.038	0.45	0.6	<0.01	4.7	0.1	<0.05	4	<0.5	<0.2
1600200	Rock Pulp	0.062	7	20	0.86	134	0.151	<20	1.71	0.182	0.23	5.0	0.15	3.7	<0.1	<0.05	5	<0.5	<0.2
1600201	Rock	0.045	29	8	0.40	100	0.057	<20	0.93	0.039	0.34	0.4	0.01	4.6	<0.1	<0.05	5	<0.5	<0.2
1600202	Rock	0.030	31	7	0.40	104	0.090	<20	0.87	0.041	0.43	0.6	<0.01	4.9	0.1	<0.05	4	<0.5	<0.2
1600203	Rock	0.033	26	8	0.37	99	0.070	<20	0.74	0.033	0.35	0.6	<0.01	4.6	0.1	<0.05	4	<0.5	<0.2
1600204	Rock	0.036	25	7	0.28	91	0.063	<20	0.82	0.055	0.35	0.5	<0.01	4.4	0.1	<0.05	4	<0.5	<0.2
1600205	Rock	0.035	29	7	0.31	75	0.069	<20	0.82	0.044	0.36	0.6	<0.01	4.6	0.1	<0.05	4	<0.5	<0.2
1600206	Rock	0.032	22	7	0.28	76	0.064	<20	0.80	0.034	0.36	0.4	<0.01	4.1	0.1	<0.05	4	<0.5	<0.2
1600207	Rock	0.028	22	7	0.25	74	0.057	<20	0.88	0.039	0.33	0.3	<0.01	3.8	0.1	<0.05	4	<0.5	<0.2
1600208	Rock	0.033	28	6	0.34	79	0.088	<20	1.02	0.038	0.46	0.4	<0.01	4.8	0.1	<0.05	5	<0.5	<0.2
1600209	Rock	0.032	27	8	0.34	77	0.095	<20	0.88	0.035	0.47	0.4	<0.01	4.7	0.1	<0.05	4	<0.5	<0.2
1600210	Rock	0.032	27	7	0.31	80	0.091	<20	0.87	0.049	0.47	0.6	<0.01	4.6	0.1	<0.05	4	<0.5	<0.2
1600211	Rock	0.032	26	10	0.38	89	0.086	<20	0.94	0.055	0.45	0.6	<0.01	4.3	0.1	<0.05	5	<0.5	<0.2
1600212	Rock	0.035	26	12	0.37	92	0.086	<20	0.89	0.045	0.45	0.6	<0.01	4.1	0.2	<0.05	4	<0.5	<0.2
1600213	Rock	0.035	25	9	0.33	79	0.070	<20	0.90	0.049	0.41	0.4	<0.01	4.2	0.1	<0.05	4	<0.5	<0.2
1600214	Rock	0.033	28	9	0.36	99	0.082	<20	0.90	0.054	0.45	0.6	<0.01	3.8	0.2	<0.05	4	<0.5	<0.2
1600215	Rock	0.037	25	11	0.41	74	0.055	<20	0.88	0.036	0.34	0.4	<0.01	3.4	0.1	<0.05	4	<0.5	<0.2
1600216	Rock	0.038	25	10	0.44	90	0.077	<20	0.99	0.047	0.43	0.6	<0.01	3.4	0.1	<0.05	5	<0.5	<0.2
1600217	Rock	0.035	25	10	0.44	122	0.112	<20	1.00	0.055	0.55	1.0	<0.01	3.1	0.2	<0.05	5	<0.5	<0.2
1600218	Rock	0.033	28	11	0.41	101	0.105	<20	0.95	0.052	0.53	0.8	<0.01	3.6	0.2	<0.05	4	<0.5	<0.2
1600219	Rock	0.027	20	11	0.31	97	0.080	<20	0.82	0.059	0.41	1.0	<0.01	2.9	0.1	<0.05	4	<0.5	<0.2
1600220	Rock Pulp	0.064	4	31	0.75	97	0.126	<20	1.48	0.074	0.12	11.9	0.02	4.6	<0.1	<0.05	4	<0.5	<0.2



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Project: LOO
Report Date: July 07, 2017

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CERTIFICATE OF ANALYSIS

WHI17000129.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1600221	Rock	3.92	<0.005	3.0	3.7	2.0	47	<0.1	2.4	4.5	427	1.80	<0.5	<0.5	9.6	45	<0.1	<0.1	<0.1	21	0.88
1600222	Rock	3.71	<0.005	2.8	10.2	2.7	48	<0.1	2.4	4.6	444	1.91	<0.5	<0.5	10.5	47	<0.1	<0.1	<0.1	23	0.91
1600223	Rock	3.29	<0.005	3.5	8.6	2.6	48	<0.1	2.4	4.8	491	2.03	<0.5	<0.5	10.3	48	<0.1	<0.1	<0.1	25	0.86
1600224	Rock	3.84	<0.005	2.8	6.9	2.8	43	<0.1	2.2	4.3	494	1.89	<0.5	2.0	10.3	50	<0.1	<0.1	<0.1	24	0.87
1600225	Rock	3.68	<0.005	4.3	9.3	6.3	51	<0.1	2.5	4.4	521	1.89	<0.5	<0.5	8.0	53	0.2	<0.1	0.2	24	1.12
1600226	Rock	3.45	<0.005	6.7	14.0	8.8	53	0.1	1.9	4.3	495	1.77	<0.5	0.9	9.6	52	0.3	<0.1	0.3	20	1.13
1600227	Rock	3.65	<0.005	5.6	16.2	8.7	60	0.1	2.4	4.5	488	1.94	<0.5	1.0	9.6	56	0.1	<0.1	0.5	24	0.96
1600228	Rock	3.17	<0.005	1.7	7.2	2.4	42	<0.1	4.9	4.5	486	1.92	1.0	3.0	11.3	12	<0.1	<0.1	<0.1	26	0.18
1600229	Rock	5.17	<0.005	1.4	7.0	3.7	49	<0.1	3.0	5.0	621	1.99	1.0	0.8	10.2	38	0.1	<0.1	<0.1	26	1.16
1600230	Rock	5.14	<0.005	1.4	3.4	4.2	56	<0.1	2.5	4.2	626	1.83	<0.5	1.2	12.0	44	0.1	<0.1	<0.1	21	1.57
1600231	Rock	3.56	<0.005	1.1	4.1	2.6	33	<0.1	2.4	3.2	411	1.44	<0.5	<0.5	11.3	26	<0.1	<0.1	<0.1	15	0.68
1600232	Rock	3.91	<0.005	1.3	5.7	2.8	40	<0.1	2.0	3.5	462	1.52	<0.5	1.1	13.2	22	<0.1	<0.1	<0.1	14	1.06
1600233	Rock	4.64	<0.005	0.8	11.2	2.6	30	<0.1	1.9	2.3	309	1.05	<0.5	1.3	13.1	16	<0.1	<0.1	<0.1	9	0.80
1600234	Rock	3.17	<0.005	1.1	3.7	2.5	37	<0.1	1.6	2.1	313	1.15	<0.5	<0.5	15.0	18	<0.1	<0.1	<0.1	10	0.53
1600235	Rock	4.11	<0.005	0.7	4.6	3.0	49	<0.1	1.6	2.3	297	1.19	<0.5	1.2	15.4	14	0.3	<0.1	<0.1	9	0.47
1600236	Rock	3.48	<0.005	1.2	3.9	2.8	31	<0.1	1.7	2.2	342	1.16	<0.5	0.6	15.9	16	<0.1	<0.1	<0.1	8	0.63
1600237	Rock	3.75	<0.005	0.8	5.0	2.3	31	<0.1	1.4	1.9	204	0.95	<0.5	0.7	18.1	11	<0.1	<0.1	<0.1	7	0.39
1600238	Rock	2.99	<0.005	1.4	3.6	4.3	32	<0.1	1.5	2.9	455	1.33	<0.5	2.4	13.4	32	<0.1	<0.1	<0.1	8	2.06
1600239	Rock	2.94	<0.005	1.6	5.0	4.3	58	<0.1	2.0	9.2	883	2.77	0.7	1.7	9.1	33	<0.1	<0.1	<0.1	48	2.02
1600240	Rock Pulp	0.14	<0.005	2.3	26.8	2.4	44	0.2	22.7	10.5	375	2.33	4.7	<0.5	1.0	39	0.2	0.3	<0.1	56	0.78
1600241	Rock	2.80	<0.005	1.1	7.2	2.3	59	<0.1	1.6	11.3	1079	3.51	<0.5	1.4	5.3	47	<0.1	<0.1	<0.1	74	1.40
1600242	Rock	3.56	<0.005	0.9	8.2	1.4	71	<0.1	1.8	13.0	1046	3.68	<0.5	0.6	3.7	58	<0.1	<0.1	<0.1	77	1.41
1600243	Rock	3.47	<0.005	0.9	6.5	1.7	67	<0.1	1.7	13.1	1066	3.81	<0.5	<0.5	3.8	71	<0.1	<0.1	<0.1	87	1.97
1600244	Rock	3.65	<0.005	1.1	6.5	2.4	66	<0.1	2.5	14.1	1313	3.82	<0.5	<0.5	4.6	102	<0.1	<0.1	<0.1	86	2.77
1600245	Rock	3.82	<0.005	0.9	8.3	1.4	66	<0.1	2.9	14.2	1013	3.68	<0.5	0.7	3.7	49	<0.1	<0.1	<0.1	81	1.07
1600246	Rock	4.77	<0.005	1.1	10.3	2.3	62	<0.1	2.2	13.1	925	3.37	<0.5	<0.5	4.7	78	<0.1	<0.1	<0.1	76	1.75
1600247	Rock	4.14	<0.005	1.1	4.3	2.2	66	<0.1	2.7	9.7	934	3.33	<0.5	<0.5	4.2	72	<0.1	<0.1	<0.1	80	1.43
1600248	Rock	4.26	<0.005	0.9	8.2	1.9	74	<0.1	1.7	13.0	986	3.62	<0.5	1.0	3.8	52	<0.1	<0.1	<0.1	95	1.20
1600249	Rock	4.11	0.013	1.2	6.8	2.9	59	<0.1	1.8	10.4	882	3.21	<0.5	3.0	5.6	63	<0.1	0.1	<0.1	62	1.65
1600250	Rock	3.60	<0.005	1.2	10.8	2.3	67	<0.1	3.1	12.8	1059	3.48	0.6	<0.5	4.6	70	<0.1	<0.1	<0.1	79	1.63



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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
MDL		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
1600221	Rock	0.029	25	12	0.41	103	0.100	<20	0.99	0.052	0.52	0.7	0.01	3.6	0.1	<0.05	5	<0.5	<0.2	
1600222	Rock	0.029	27	13	0.39	110	0.106	<20	0.96	0.058	0.52	0.8	<0.01	3.9	0.2	<0.05	5	<0.5	<0.2	
1600223	Rock	0.033	29	14	0.42	111	0.117	<20	0.94	0.049	0.56	1.2	<0.01	3.5	0.2	<0.05	4	<0.5	<0.2	
1600224	Rock	0.032	26	11	0.38	117	0.107	<20	0.95	0.063	0.52	0.8	<0.01	3.6	0.2	<0.05	5	<0.5	<0.2	
1600225	Rock	0.029	23	13	0.38	105	0.100	<20	0.96	0.057	0.50	0.9	<0.01	3.3	0.2	<0.05	5	<0.5	<0.2	
1600226	Rock	0.030	27	11	0.36	83	0.076	<20	0.90	0.045	0.43	0.7	<0.01	3.3	0.2	<0.05	4	<0.5	<0.2	
1600227	Rock	0.031	29	11	0.41	101	0.093	<20	1.05	0.045	0.49	0.9	<0.01	3.6	0.2	<0.05	5	<0.5	<0.2	
1600228	Rock	0.031	36	10	0.38	104	0.091	<20	1.03	0.046	0.45	0.6	<0.01	3.6	0.1	<0.05	4	<0.5	<0.2	
1600229	Rock	0.045	27	8	0.32	115	0.101	<20	0.93	0.043	0.52	0.7	<0.01	3.4	0.2	<0.05	4	<0.5	<0.2	
1600230	Rock	0.033	28	5	0.30	95	0.096	<20	0.91	0.044	0.50	0.9	<0.01	3.3	0.2	<0.05	4	<0.5	<0.2	
1600231	Rock	0.022	23	4	0.23	71	0.056	<20	0.69	0.048	0.35	0.7	<0.01	2.7	0.1	<0.05	3	<0.5	<0.2	
1600232	Rock	0.024	28	5	0.21	67	0.053	<20	0.63	0.038	0.32	0.5	<0.01	2.6	0.1	<0.05	3	<0.5	<0.2	
1600233	Rock	0.016	27	4	0.11	62	0.029	<20	0.57	0.043	0.25	0.5	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2	
1600234	Rock	0.014	29	6	0.14	55	0.040	<20	0.51	0.065	0.26	1.4	<0.01	2.2	<0.1	<0.05	2	<0.5	<0.2	
1600235	Rock	0.015	30	6	0.13	51	0.044	<20	0.57	0.044	0.26	1.1	<0.01	2.3	0.1	<0.05	3	<0.5	<0.2	
1600236	Rock	0.015	30	5	0.12	58	0.036	<20	0.57	0.048	0.25	1.0	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2	
1600237	Rock	0.014	27	4	0.11	46	0.035	<20	0.56	0.044	0.25	0.9	<0.01	1.7	<0.1	<0.05	2	<0.5	<0.2	
1600238	Rock	0.013	29	5	0.09	61	0.015	<20	0.41	0.025	0.16	0.8	<0.01	1.6	<0.1	<0.05	2	<0.5	<0.2	
1600239	Rock	0.046	22	4	0.63	240	0.111	<20	1.38	0.028	0.59	0.4	<0.01	7.5	0.2	<0.05	5	<0.5	<0.2	
1600240	Rock Pulp	0.063	4	30	0.75	97	0.129	<20	1.48	0.073	0.13	12.6	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2	
1600241	Rock	0.061	18	4	1.04	406	0.209	<20	1.79	0.049	0.98	0.5	<0.01	10.9	0.2	<0.05	7	<0.5	<0.2	
1600242	Rock	0.068	12	6	1.28	492	0.244	<20	1.98	0.050	1.22	0.4	<0.01	7.7	0.2	<0.05	8	<0.5	<0.2	
1600243	Rock	0.064	14	3	1.21	455	0.194	<20	1.98	0.048	1.02	0.3	<0.01	9.3	0.2	<0.05	8	<0.5	<0.2	
1600244	Rock	0.066	17	8	1.31	505	0.214	<20	2.08	0.046	1.18	0.4	<0.01	8.7	0.2	<0.05	8	<0.5	<0.2	
1600245	Rock	0.062	12	8	1.36	556	0.252	<20	2.11	0.055	1.36	0.4	<0.01	5.4	0.3	<0.05	7	<0.5	<0.2	
1600246	Rock	0.054	16	6	1.15	477	0.194	<20	1.92	0.052	1.11	0.3	0.01	6.1	0.3	<0.05	7	<0.5	<0.2	
1600247	Rock	0.053	15	6	1.17	429	0.206	<20	1.89	0.071	1.14	0.4	<0.01	7.5	0.2	<0.05	8	<0.5	<0.2	
1600248	Rock	0.067	13	8	1.35	541	0.206	<20	2.01	0.052	1.22	0.4	<0.01	7.3	0.2	<0.05	8	<0.5	<0.2	
1600249	Rock	0.060	18	6	0.97	380	0.183	<20	1.74	0.049	1.00	0.5	<0.01	7.0	0.2	<0.05	8	<0.5	<0.2	
1600250	Rock	0.059	17	9	1.19	404	0.202	<20	1.88	0.060	1.14	0.4	<0.01	9.2	0.2	<0.05	8	<0.5	<0.2	



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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
1600191	Rock	3.75	<0.005	1.3	10.9	1.8	64	<0.1	3.6	11.5	997	3.52	<0.5	<0.5	3.8	64	<0.1	<0.1	<0.1	74	1.26
REP 1600191	QC			1.1	11.6	1.7	62	<0.1	3.5	12.1	960	3.53	<0.5	0.8	4.0	62	<0.1	<0.1	<0.1	74	1.26
1600213	Rock	4.16	<0.005	1.5	7.4	3.0	41	<0.1	2.1	4.5	510	1.81	0.9	<0.5	8.5	67	<0.1	<0.1	<0.1	22	1.81
REP 1600213	QC		<0.005																		
1600224	Rock	3.84	<0.005	2.8	6.9	2.8	43	<0.1	2.2	4.3	494	1.89	<0.5	2.0	10.3	50	<0.1	<0.1	<0.1	24	0.87
REP 1600224	QC			2.6	6.5	2.6	40	<0.1	2.1	4.1	489	1.82	<0.5	<0.5	9.7	48	<0.1	<0.1	<0.1	23	0.82
1600248	Rock	4.26	<0.005	0.9	8.2	1.9	74	<0.1	1.7	13.0	986	3.62	<0.5	1.0	3.8	52	<0.1	<0.1	<0.1	95	1.20
REP 1600248	QC		<0.005																		
Core Reject Duplicates																					
1600219	Rock	4.44	<0.005	2.4	3.4	2.7	44	<0.1	2.3	4.1	410	1.57	<0.5	<0.5	7.2	57	<0.1	<0.1	<0.1	19	1.21
DUP 1600219	QC		<0.005	2.5	6.0	2.9	47	<0.1	2.2	4.0	418	1.63	<0.5	<0.5	8.0	56	<0.1	<0.1	<0.1	19	1.22
Reference Materials																					
STD DS10	Standard			13.3	155.0	137.5	363	1.8	73.8	12.8	845	2.61	48.8	56.2	7.1	68	2.7	8.2	12.0	40	1.02
STD DS10	Standard			13.6	161.0	145.5	381	1.8	76.0	13.4	854	2.73	43.1	56.6	7.4	67	3.0	9.3	12.4	43	1.06
STD OREAS45EA	Standard			1.4	651.8	13.2	30	0.2	348.4	49.2	368	20.28	11.0	43.8	9.9	4	<0.1	0.3	0.3	299	0.03
STD OREAS45EA	Standard			1.6	690.8	14.8	32	0.3	364.8	51.8	394	21.44	11.3	54.6	10.5	4	<0.1	0.4	0.3	302	0.03
STD OXC145	Standard		0.203																		
STD OXH122	Standard		1.190																		
STD OXN117	Standard		7.480																		
STD DS10 Expected				13.6	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625
STD OREAS45EA Expected				1.6	709	14.3	31.4	0.26	381	52	400	23.51	10.3	53	10.7	3.5	0.03	0.32	0.26	303	0.036
STD OXN117 Expected			7.679																		
STD OXC145 Expected			0.212																		
STD OXH122 Expected			1.247																		
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	1.2	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		



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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																			
1600191	Rock	0.061	12	14	1.20	498	0.216	<20	1.84	0.049	1.18	0.5	<0.01	6.5	0.2	<0.05	7	<0.5	<0.2
REP 1600191	QC	0.069	12	13	1.20	501	0.220	<20	1.86	0.049	1.19	0.5	<0.01	6.5	0.2	<0.05	7	<0.5	<0.2
1600213	Rock	0.035	25	9	0.33	79	0.070	<20	0.90	0.049	0.41	0.4	<0.01	4.2	0.1	<0.05	4	<0.5	<0.2
REP 1600213	QC																		
1600224	Rock	0.032	26	11	0.38	117	0.107	<20	0.95	0.063	0.52	0.8	<0.01	3.6	0.2	<0.05	5	<0.5	<0.2
REP 1600224	QC	0.027	24	11	0.36	107	0.101	<20	0.92	0.060	0.50	0.8	<0.01	3.3	0.2	<0.05	4	<0.5	<0.2
1600248	Rock	0.067	13	8	1.35	541	0.206	<20	2.01	0.052	1.22	0.4	<0.01	7.3	0.2	<0.05	8	<0.5	<0.2
REP 1600248	QC																		
Core Reject Duplicates																			
1600219	Rock	0.027	20	11	0.31	97	0.080	<20	0.82	0.059	0.41	1.0	<0.01	2.9	0.1	<0.05	4	<0.5	<0.2
DUP 1600219	QC	0.028	21	12	0.32	96	0.085	<20	0.85	0.060	0.43	0.9	<0.01	3.1	0.1	<0.05	4	<0.5	<0.2
Reference Materials																			
STD DS10	Standard	0.076	16	56	0.74	400	0.077	<20	0.97	0.065	0.31	2.9	0.26	2.9	5.0	0.27	4	1.8	4.5
STD DS10	Standard	0.079	19	56	0.77	422	0.086	<20	1.04	0.069	0.34	2.8	0.26	3.0	5.0	0.29	5	1.8	4.6
STD OREAS45EA	Standard	0.030	7	772	0.09	132	0.103	<20	3.14	0.021	0.05	<0.1	<0.01	74.5	<0.1	<0.05	11	0.9	<0.2
STD OREAS45EA	Standard	0.031	7	805	0.09	146	0.103	<20	3.32	0.025	0.06	<0.1	<0.01	78.8	<0.1	<0.05	12	1.4	<0.2
STD OXC145	Standard																		
STD OXH122	Standard																		
STD OXN117	Standard																		
STD DS10 Expected		0.0765	17.5	54.6	0.775	412	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3	2.3	5.01
STD OREAS45EA Expected		0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053			78	0.072	0.036	12.4	0.78	0.07
STD OXN117 Expected																			
STD OXC145 Expected																			
STD OXH122 Expected																			
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank																		
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		WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
Prep Wash																					
ROCK-WHI	Prep Blank		<0.005	0.7	4.3	1.8	32	<0.1	1.2	3.6	405	1.64	1.3	1.7	2.7	25	<0.1	<0.1	<0.1	22	0.58
ROCK-WHI	Prep Blank		<0.005	1.0	5.4	1.3	31	<0.1	1.2	3.7	437	1.74	1.2	<0.5	2.5	30	<0.1	<0.1	<0.1	22	0.60



Bureau Veritas Commodities Canada Ltd.
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Dawson Yukon Y0B 1G0 Canada

Project: LOO
Report Date: July 07, 2017

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QUALITY CONTROL REPORT

WHI17000129.1

		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
Prep Wash		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ROCK-WHI	Prep Blank	0.042	5	4	0.38	68	0.081	<20	0.84	0.083	0.08	0.2	<0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
ROCK-WHI	Prep Blank	0.040	6	3	0.38	82	0.092	<20	0.93	0.113	0.11	0.2	<0.01	2.7	<0.1	<0.05	4	<0.5	<0.2



BUREAU VERITAS MINERAL LABORATORIES
Canada

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Client: **White Gold Corp.**
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Submitted By: Jodie Gibson
Receiving Lab: Canada-Whitehorse
Received: June 23, 2017
Report Date: July 08, 2017
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CERTIFICATE OF ANALYSIS

WHI17000134.1

CLIENT JOB INFORMATION

Project: LOO
Shipment ID: LOO-20170622-001-ROCK
P.O. Number
Number of Samples: 133

SAMPLE DISPOSAL

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

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

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

CC: Isaac Fage
Shawn Ryan

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	125	Crush, split and pulverize 250 g rock to 200 mesh			WHI
SLBHP	8	Sort, label and box pulps			WHI
FA430	133	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	133	Environmental disposal charge-Fire assay lead waste			VAN
AQ200	133	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	133	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



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



Bureau Veritas Commodities Canada Ltd.

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Project: LOO
Report Date: July 08, 2017

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CERTIFICATE OF ANALYSIS

WHI17000134.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540178	Rock	3.90	0.015	1.2	6.7	2.9	35	<0.1	3.8	4.3	545	1.75	0.6	12.7	10.5	10	<0.1	<0.1	<0.1	21	0.26
1540179	Rock	3.35	<0.005	1.5	3.4	1.9	37	<0.1	2.5	3.9	517	1.76	<0.5	3.9	11.3	16	<0.1	<0.1	<0.1	21	0.49
1540180	Rock Pulp	0.09	0.552	6.4	280.5	15.2	51	0.5	108.7	14.7	441	2.84	178.8	365.5	3.3	82	0.2	1.6	0.1	64	1.79
1540181	Rock	4.13	<0.005	1.2	2.5	2.4	36	<0.1	2.2	4.4	466	1.81	<0.5	1.1	11.0	24	<0.1	<0.1	<0.1	22	0.70
1540182	Rock	4.37	<0.005	1.5	2.0	3.8	37	<0.1	2.1	4.0	558	1.74	<0.5	1.7	10.6	41	<0.1	<0.1	<0.1	20	1.82
1540183	Rock	3.75	<0.005	1.2	3.4	3.0	25	<0.1	1.7	2.6	377	1.16	<0.5	2.4	11.8	22	<0.1	<0.1	<0.1	10	0.85
1540184	Rock	4.53	<0.005	1.3	3.0	3.3	33	<0.1	2.9	3.2	417	1.43	<0.5	1.8	12.3	14	<0.1	<0.1	<0.1	13	0.45
1540185	Rock	3.61	0.005	1.3	14.9	4.7	41	<0.1	1.7	2.9	510	1.47	<0.5	4.3	11.8	17	<0.1	<0.1	0.2	13	1.06
1540186	Rock	4.30	0.005	0.9	21.6	4.2	34	<0.1	1.4	2.4	391	1.23	<0.5	4.3	12.3	18	<0.1	<0.1	0.6	10	0.73
1540187	Rock	4.79	<0.005	1.7	13.6	4.6	49	<0.1	2.1	2.7	466	1.33	<0.5	1.1	11.1	44	0.3	<0.1	0.5	10	1.45
1540193	Rock	3.77	<0.005	1.5	2.6	4.9	44	<0.1	1.8	3.1	666	1.73	0.6	1.1	12.5	64	<0.1	<0.1	<0.1	12	2.56
1540194	Rock	4.45	<0.005	3.8	5.7	3.1	36	<0.1	1.7	3.3	486	1.54	<0.5	<0.5	10.6	52	<0.1	<0.1	<0.1	14	1.49
1540195	Rock	4.56	<0.005	1.5	5.0	4.0	38	<0.1	1.8	4.6	508	1.93	0.8	1.2	9.4	65	<0.1	0.1	<0.1	19	1.65
1540196	Rock	4.48	<0.005	1.3	2.6	2.9	44	<0.1	1.6	5.2	595	2.06	0.7	0.8	10.7	43	<0.1	<0.1	<0.1	20	0.92
1540197	Rock	4.05	<0.005	1.0	3.4	3.4	38	<0.1	1.8	4.8	552	1.92	<0.5	<0.5	11.8	57	<0.1	<0.1	<0.1	23	1.25
1540198	Rock	3.69	<0.005	1.8	3.1	3.4	38	<0.1	1.8	4.7	610	1.97	<0.5	<0.5	10.6	37	<0.1	<0.1	<0.1	24	1.27
1540199	Rock	3.46	<0.005	4.2	4.1	3.8	30	<0.1	1.6	3.6	463	1.68	<0.5	<0.5	11.4	30	<0.1	<0.1	<0.1	15	1.31
1540200	Rock Pulp	0.12	<0.005	2.5	24.3	2.4	43	0.3	23.2	9.9	401	2.38	4.5	<0.5	0.9	41	0.2	0.3	<0.1	58	0.81
1540201	Rock	3.42	<0.005	9.7	4.6	3.9	30	<0.1	1.6	2.9	428	1.40	<0.5	<0.5	13.8	39	<0.1	<0.1	0.2	12	1.14
1540202	Rock	3.84	<0.005	4.1	6.2	3.5	27	<0.1	1.8	3.2	342	1.46	<0.5	<0.5	13.6	34	<0.1	<0.1	0.3	19	0.75
1540203	Rock	4.02	<0.005	3.9	5.9	3.7	50	<0.1	2.4	5.8	520	2.36	0.6	<0.5	8.4	41	<0.1	<0.1	<0.1	36	1.07
1540204	Rock	3.56	<0.005	1.6	2.5	2.6	37	<0.1	2.1	4.5	419	1.91	<0.5	<0.5	9.3	37	<0.1	0.1	<0.1	28	0.87
1540205	Rock	3.95	<0.005	3.8	2.5	4.8	41	<0.1	2.0	5.1	622	2.15	<0.5	<0.5	10.4	59	<0.1	<0.1	<0.1	29	2.54
1540206	Rock	3.80	<0.005	1.7	2.9	2.0	39	<0.1	1.9	4.4	452	1.75	<0.5	<0.5	8.7	35	<0.1	<0.1	<0.1	23	0.95
1540207	Rock	4.53	<0.005	1.6	4.4	4.3	50	<0.1	2.3	5.8	578	2.19	<0.5	<0.5	9.8	51	<0.1	0.1	<0.1	30	1.09
1540208	Rock	4.23	<0.005	1.6	7.1	3.0	40	<0.1	2.4	5.6	548	2.19	<0.5	0.7	9.8	48	<0.1	<0.1	<0.1	32	1.00
1540209	Rock	4.53	<0.005	2.1	4.3	5.0	36	<0.1	2.2	5.3	540	2.02	0.6	<0.5	9.3	89	<0.1	0.1	<0.1	25	2.01
1540210	Rock	4.29	0.025	2.9	2.8	4.5	30	<0.1	1.1	4.0	729	1.45	<0.5	19.7	8.0	79	<0.1	<0.1	<0.1	12	2.61
1540211	Rock	4.52	0.007	1.1	4.3	3.5	34	<0.1	1.4	4.1	464	1.61	<0.5	5.2	8.8	94	<0.1	<0.1	<0.1	17	1.94
1540212	Rock	4.12	<0.005	1.1	3.7	3.6	37	<0.1	1.5	4.1	517	1.78	<0.5	<0.5	8.7	106	<0.1	<0.1	<0.1	22	1.97



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Project: LOO
Report Date: July 08, 2017

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CERTIFICATE OF ANALYSIS

WHI17000134.1

Method Analyte Unit MDL	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	
1540178	Rock	0.034	28	6	0.34	132	0.094	<20	0.87	0.026	0.46	0.8	<0.01	4.1	0.2	<0.05	4	<0.5	<0.2
1540179	Rock	0.031	26	6	0.37	141	0.102	<20	0.82	0.043	0.49	1.0	<0.01	4.3	0.1	<0.05	4	<0.5	<0.2
1540180	Rock Pulp	0.035	9	109	1.39	125	0.103	<20	2.69	0.325	0.22	0.9	0.03	3.3	<0.1	0.09	6	<0.5	<0.2
1540181	Rock	0.034	27	5	0.34	109	0.101	<20	0.84	0.036	0.51	1.0	<0.01	4.1	0.1	<0.05	4	<0.5	<0.2
1540182	Rock	0.032	28	4	0.24	112	0.080	<20	0.73	0.025	0.41	0.8	<0.01	4.5	0.1	<0.05	4	<0.5	<0.2
1540183	Rock	0.025	33	4	0.12	85	0.036	<20	0.49	0.039	0.24	1.4	<0.01	2.7	<0.1	<0.05	2	<0.5	<0.2
1540184	Rock	0.032	30	6	0.22	98	0.062	<20	0.68	0.033	0.34	0.9	<0.01	3.6	0.1	<0.05	4	<0.5	<0.2
1540185	Rock	0.025	35	3	0.18	128	0.041	<20	0.69	0.018	0.27	0.6	<0.01	3.6	0.1	<0.05	3	<0.5	<0.2
1540186	Rock	0.023	35	4	0.14	81	0.047	<20	0.63	0.032	0.29	0.7	<0.01	2.8	0.1	<0.05	3	<0.5	<0.2
1540187	Rock	0.026	32	5	0.17	112	0.046	<20	0.59	0.028	0.28	0.6	<0.01	2.8	0.1	<0.05	3	<0.5	<0.2
1540193	Rock	0.028	31	5	0.21	106	0.025	<20	0.64	0.028	0.21	0.5	<0.01	3.7	<0.1	<0.05	3	<0.5	<0.2
1540194	Rock	0.029	30	5	0.22	85	0.051	<20	0.64	0.031	0.31	0.5	<0.01	3.2	0.1	<0.05	3	<0.5	<0.2
1540195	Rock	0.036	28	5	0.24	80	0.029	<20	0.64	0.030	0.23	0.4	<0.01	3.9	<0.1	<0.05	3	<0.5	<0.2
1540196	Rock	0.033	30	5	0.38	109	0.054	<20	0.82	0.038	0.32	0.4	<0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
1540197	Rock	0.038	32	5	0.43	106	0.076	<20	0.99	0.026	0.43	0.5	<0.01	4.2	0.1	<0.05	5	<0.5	<0.2
1540198	Rock	0.035	28	5	0.33	127	0.087	<20	0.86	0.021	0.46	0.5	<0.01	4.1	0.1	<0.05	4	<0.5	<0.2
1540199	Rock	0.024	27	5	0.17	79	0.038	<20	0.55	0.027	0.24	0.6	<0.01	2.7	<0.1	<0.05	3	<0.5	<0.2
1540200	Rock Pulp	0.062	4	31	0.78	97	0.133	<20	1.56	0.081	0.13	12.1	<0.01	4.8	<0.1	<0.05	5	<0.5	<0.2
1540201	Rock	0.019	27	5	0.21	60	0.047	<20	0.62	0.032	0.30	0.6	<0.01	2.4	0.2	<0.05	3	<0.5	<0.2
1540202	Rock	0.024	22	6	0.20	68	0.050	<20	0.62	0.033	0.30	1.1	<0.01	2.5	0.1	<0.05	3	<0.5	<0.2
1540203	Rock	0.054	27	6	0.50	96	0.046	<20	0.93	0.028	0.32	0.4	<0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
1540204	Rock	0.040	27	6	0.37	85	0.083	<20	0.86	0.033	0.43	0.5	<0.01	4.3	0.1	<0.05	4	<0.5	<0.2
1540205	Rock	0.032	34	6	0.33	116	0.106	<20	0.84	0.008	0.50	0.6	<0.01	5.0	0.1	<0.05	4	<0.5	<0.2
1540206	Rock	0.032	24	6	0.44	140	0.098	<20	0.87	0.032	0.53	0.7	<0.01	3.5	0.1	<0.05	4	<0.5	<0.2
1540207	Rock	0.038	30	7	0.44	123	0.081	<20	0.89	0.036	0.43	0.6	<0.01	4.9	0.1	<0.05	5	<0.5	<0.2
1540208	Rock	0.037	30	8	0.46	122	0.114	<20	0.99	0.034	0.58	0.9	<0.01	4.3	0.2	<0.05	5	<0.5	<0.2
1540209	Rock	0.035	31	6	0.25	111	0.056	<20	0.79	0.015	0.37	0.4	<0.01	5.1	0.1	<0.05	4	<0.5	<0.2
1540210	Rock	0.031	25	3	0.13	277	0.004	<20	0.53	0.005	0.19	0.1	<0.01	3.9	<0.1	<0.05	2	<0.5	<0.2
1540211	Rock	0.032	26	5	0.19	53	0.017	<20	0.56	0.018	0.17	0.2	<0.01	4.4	<0.1	<0.05	3	<0.5	<0.2
1540212	Rock	0.034	26	5	0.24	75	0.043	<20	0.65	0.022	0.26	0.3	<0.01	4.4	<0.1	<0.05	3	<0.5	<0.2



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Project: LOO
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CERTIFICATE OF ANALYSIS

WHI17000134.1

Method Analyte	Unit	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
			Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1540218	Rock	4.37	<0.005	1.7	5.1	4.5	43	<0.1	1.8	4.4	480	1.83	<0.5	<0.5	9.4	57	<0.1	<0.1	<0.1	24	1.03
1540219	Rock	3.18	<0.005	3.2	5.1	3.5	39	<0.1	2.0	4.5	582	1.92	<0.5	<0.5	8.7	81	<0.1	0.1	<0.1	24	1.84
1540220	Rock Pulp	0.09	5.275	7.8	193.7	22.7	77	0.9	14.5	11.3	577	4.18	11.8	6111.5	2.9	77	0.2	4.3	0.5	102	0.91
1540221	Rock	4.96	0.007	2.3	4.0	3.1	41	<0.1	1.8	4.8	502	1.88	<0.5	0.5	7.6	53	<0.1	<0.1	<0.1	24	1.37
1540222	Rock	4.50	<0.005	2.0	4.4	2.8	44	<0.1	2.2	5.2	506	2.05	<0.5	<0.5	7.1	52	<0.1	<0.1	<0.1	29	1.24
1540223	Rock	4.52	<0.005	2.4	6.7	3.2	43	<0.1	2.7	6.4	599	2.29	<0.5	<0.5	8.2	76	<0.1	<0.1	<0.1	38	1.85
1540224	Rock	4.31	<0.005	1.5	5.0	2.7	38	<0.1	2.6	5.0	491	2.07	<0.5	<0.5	8.6	73	<0.1	<0.1	<0.1	29	1.69
1540225	Rock	4.59	<0.005	1.6	5.0	2.2	33	<0.1	2.3	5.1	434	1.99	<0.5	<0.5	8.2	56	<0.1	<0.1	<0.1	28	1.45
1540226	Rock	4.57	<0.005	2.4	3.2	3.1	33	<0.1	1.9	5.2	658	1.89	<0.5	<0.5	7.4	106	<0.1	<0.1	<0.1	24	2.67
1540227	Rock	4.18	<0.005	2.2	4.6	3.7	34	<0.1	2.2	5.4	841	2.06	0.6	<0.5	8.9	170	<0.1	<0.1	<0.1	26	2.94
1540228	Rock	4.43	<0.005	2.8	3.0	2.4	34	<0.1	1.9	5.0	661	2.02	<0.5	<0.5	8.3	79	<0.1	<0.1	<0.1	23	1.66
1540229	Rock	5.08	<0.005	3.0	3.3	2.1	33	<0.1	2.0	4.6	478	1.96	<0.5	<0.5	8.3	59	<0.1	0.1	<0.1	21	1.17
1540230	Rock	4.10	<0.005	2.5	2.9	1.5	34	<0.1	2.0	4.7	469	1.86	<0.5	<0.5	9.5	49	<0.1	<0.1	<0.1	20	1.00
1540231	Rock	3.95	<0.005	1.5	3.6	2.1	31	<0.1	1.8	3.8	544	1.74	<0.5	<0.5	10.1	81	<0.1	<0.1	<0.1	18	1.69
1540232	Rock	5.04	<0.005	1.4	4.6	1.8	35	<0.1	2.0	4.6	524	1.98	<0.5	<0.5	9.2	63	<0.1	<0.1	<0.1	24	1.14
1540233	Rock	4.72	<0.005	1.5	5.1	1.4	31	<0.1	1.9	4.3	473	1.93	<0.5	<0.5	9.0	44	<0.1	<0.1	<0.1	25	0.81
1540234	Rock	5.15	<0.005	1.5	3.5	1.4	34	<0.1	2.0	4.2	465	1.89	<0.5	<0.5	10.5	40	<0.1	<0.1	<0.1	23	0.71
1540235	Rock	3.67	<0.005	1.4	4.5	1.6	37	<0.1	1.8	4.8	526	1.99	<0.5	<0.5	9.4	63	<0.1	<0.1	<0.1	24	0.94
1540236	Rock	3.91	<0.005	1.6	4.3	1.0	36	<0.1	2.0	4.8	499	2.12	<0.5	<0.5	7.9	36	<0.1	<0.1	<0.1	27	0.60
1540237	Rock	3.98	<0.005	1.8	5.0	1.6	40	<0.1	2.5	5.8	464	2.24	<0.5	<0.5	6.9	57	<0.1	<0.1	<0.1	30	1.04
1540238	Rock	4.15	<0.005	1.5	2.4	1.4	64	<0.1	1.8	6.1	831	2.62	<0.5	<0.5	9.0	129	<0.1	<0.1	<0.1	29	2.50
1540239	Rock	4.09	<0.005	1.3	3.3	2.4	35	<0.1	2.2	5.1	560	2.09	<0.5	<0.5	9.7	75	<0.1	<0.1	<0.1	28	1.23
1540240	Rock Pulp	0.14	<0.005	2.2	24.1	2.1	42	0.3	22.7	10.2	396	2.40	4.5	<0.5	0.8	36	0.2	0.2	<0.1	59	0.83
1540241	Rock	3.94	<0.005	1.8	4.7	1.9	29	<0.1	1.9	3.8	428	1.63	<0.5	<0.5	11.0	50	<0.1	<0.1	<0.1	19	0.91
1540242	Rock	4.25	<0.005	2.5	4.5	2.9	38	<0.1	2.8	4.8	495	1.99	<0.5	<0.5	10.0	64	<0.1	<0.1	<0.1	23	1.11
1540243	Rock	3.42	<0.005	2.2	4.0	3.6	37	<0.1	2.7	4.7	489	1.91	1.0	<0.5	9.8	63	<0.1	<0.1	<0.1	18	1.20
1540244	Rock	3.51	<0.005	2.9	3.4	2.4	35	<0.1	2.0	4.3	499	1.93	1.8	<0.5	10.2	52	<0.1	<0.1	<0.1	20	1.05
1540245	Rock	3.54	<0.005	2.3	9.0	2.2	36	<0.1	3.6	6.6	579	2.26	<0.5	<0.5	8.3	67	<0.1	<0.1	<0.1	31	1.25
1540246	Rock	3.36	<0.005	1.5	4.5	2.8	33	<0.1	1.9	4.6	526	1.85	2.1	<0.5	10.1	82	<0.1	0.1	<0.1	20	1.99
1540247	Rock	4.07	<0.005	1.9	7.0	2.6	18	<0.1	1.8	2.8	289	1.12	2.2	<0.5	16.0	55	<0.1	<0.1	<0.1	8	1.47



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Method Analyte Unit MDL	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	
1540218	Rock	0.033	24	7	0.35	126	0.067	<20	0.72	0.034	0.33	0.7	<0.01	4.2	0.1	<0.05	4	<0.5	<0.2
1540219	Rock	0.037	25	7	0.26	124	0.060	<20	0.75	0.019	0.32	0.6	<0.01	4.3	0.1	<0.05	4	<0.5	<0.2
1540220	Rock Pulp	0.059	8	19	0.86	136	0.149	<20	1.76	0.189	0.23	5.3	0.17	3.4	<0.1	<0.05	5	<0.5	<0.2
1540221	Rock	0.032	23	8	0.36	96	0.075	<20	0.81	0.030	0.42	0.7	<0.01	3.8	0.1	<0.05	4	<0.5	<0.2
1540222	Rock	0.036	21	8	0.44	108	0.099	<20	0.99	0.034	0.53	0.6	<0.01	4.1	0.2	<0.05	5	<0.5	<0.2
1540223	Rock	0.044	23	8	0.52	128	0.109	<20	1.05	0.026	0.60	0.7	<0.01	4.8	0.2	<0.05	5	<0.5	<0.2
1540224	Rock	0.034	24	8	0.42	149	0.091	<20	0.93	0.031	0.48	0.5	<0.01	4.3	0.2	<0.05	5	<0.5	<0.2
1540225	Rock	0.037	26	8	0.34	89	0.075	<20	0.91	0.026	0.40	0.4	<0.01	4.1	0.1	<0.05	4	<0.5	<0.2
1540226	Rock	0.035	24	8	0.32	89	0.053	<20	0.79	0.019	0.30	0.4	<0.01	4.1	0.1	<0.05	4	<0.5	<0.2
1540227	Rock	0.037	29	8	0.45	111	0.084	<20	0.94	0.032	0.45	0.6	<0.01	3.8	0.1	<0.05	4	<0.5	<0.2
1540228	Rock	0.029	25	8	0.40	91	0.079	<20	0.90	0.037	0.41	0.6	<0.01	3.5	0.1	<0.05	4	<0.5	<0.2
1540229	Rock	0.033	26	8	0.37	127	0.025	<20	0.77	0.032	0.19	0.5	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
1540230	Rock	0.029	25	8	0.35	111	0.069	<20	0.80	0.036	0.39	0.7	<0.01	3.1	0.1	<0.05	4	<0.5	<0.2
1540231	Rock	0.025	29	8	0.32	128	0.064	<20	0.79	0.038	0.33	0.7	<0.01	2.8	0.1	<0.05	4	<0.5	<0.2
1540232	Rock	0.031	28	9	0.40	78	0.091	<20	0.90	0.045	0.46	0.8	<0.01	3.7	0.2	<0.05	4	<0.5	<0.2
1540233	Rock	0.030	23	10	0.39	93	0.113	<20	0.93	0.050	0.57	1.4	<0.01	3.3	0.2	<0.05	4	<0.5	<0.2
1540234	Rock	0.027	32	9	0.37	90	0.103	<20	0.89	0.046	0.54	1.3	<0.01	3.0	0.2	<0.05	4	<0.5	<0.2
1540235	Rock	0.032	30	8	0.45	128	0.116	<20	0.98	0.044	0.58	1.5	<0.01	3.3	0.2	<0.05	5	<0.5	<0.2
1540236	Rock	0.036	25	10	0.59	105	0.118	<20	1.04	0.051	0.64	1.3	<0.01	3.7	0.2	<0.05	5	<0.5	<0.2
1540237	Rock	0.042	22	10	0.61	98	0.092	<20	1.03	0.035	0.59	0.9	0.01	4.2	0.2	<0.05	5	<0.5	<0.2
1540238	Rock	0.033	24	8	1.06	480	0.103	<20	1.55	0.040	0.84	0.4	<0.01	4.0	0.2	<0.05	8	<0.5	<0.2
1540239	Rock	0.035	28	10	0.49	216	0.112	<20	1.02	0.042	0.60	0.9	<0.01	3.5	0.2	<0.05	4	<0.5	<0.2
1540240	Rock Pulp	0.058	4	31	0.79	94	0.127	<20	1.57	0.080	0.13	11.2	0.01	4.8	<0.1	<0.05	5	<0.5	<0.2
1540241	Rock	0.025	30	10	0.33	139	0.079	<20	0.76	0.044	0.43	1.2	<0.01	2.4	0.2	<0.05	4	<0.5	<0.2
1540242	Rock	0.034	32	15	0.43	446	0.065	<20	0.91	0.046	0.40	0.8	<0.01	2.8	0.1	<0.05	4	<0.5	<0.2
1540243	Rock	0.030	28	12	0.44	70	0.020	<20	0.83	0.038	0.20	0.6	0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
1540244	Rock	0.028	30	12	0.41	70	0.057	<20	0.84	0.038	0.36	1.0	<0.01	2.7	0.1	<0.05	4	<0.5	<0.2
1540245	Rock	0.039	27	15	0.56	89	0.093	<20	1.05	0.036	0.49	1.4	<0.01	4.3	0.1	<0.05	5	<0.5	<0.2
1540246	Rock	0.031	42	10	0.37	71	0.061	<20	0.87	0.031	0.36	0.9	0.01	3.4	0.1	0.11	4	<0.5	<0.2
1540247	Rock	0.014	49	11	0.17	48	0.024	<20	0.51	0.032	0.19	3.1	0.01	1.6	<0.1	0.12	3	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540248	Rock	3.71	0.008	0.9	5.4	1.1	30	<0.1	4.8	4.6	466	2.01	<0.5	6.2	7.4	8	<0.1	<0.1	<0.1	24	0.21
1540249	Rock	5.23	<0.005	0.8	6.6	1.9	36	<0.1	2.7	4.6	489	1.96	<0.5	2.9	7.4	29	<0.1	<0.1	<0.1	28	0.78
1540250	Rock	5.39	<0.005	0.6	3.1	2.6	30	<0.1	2.0	3.8	470	1.60	<0.5	1.6	8.8	47	<0.1	<0.1	<0.1	18	1.14
1540251	Rock	3.17	<0.005	0.6	2.2	2.2	35	<0.1	1.8	3.8	483	1.75	<0.5	0.5	9.0	30	<0.1	0.1	<0.1	19	0.79
1540252	Rock	3.97	<0.005	0.7	3.0	3.1	33	<0.1	1.6	4.0	537	1.73	<0.5	<0.5	8.7	53	<0.1	0.1	<0.1	19	1.62
1540253	Rock	3.58	<0.005	1.3	2.0	3.8	28	<0.1	2.0	3.6	612	1.65	<0.5	<0.5	8.0	49	<0.1	<0.1	<0.1	18	2.53
1540254	Rock	4.06	<0.005	0.6	2.6	2.0	29	<0.1	1.6	2.7	359	1.30	<0.5	<0.5	9.7	25	<0.1	<0.1	<0.1	13	0.96
1540255	Rock	3.21	<0.005	0.7	1.6	1.4	45	<0.1	1.5	2.6	475	1.58	<0.5	<0.5	9.4	25	<0.1	<0.1	<0.1	18	1.45
1540256	Rock	3.27	<0.005	1.8	9.2	3.6	48	<0.1	1.6	3.3	571	1.74	<0.5	2.4	11.4	36	<0.1	0.1	0.3	15	1.98
1540257	Rock	2.97	1.172	1.5	14.8	4.9	17	0.8	1.5	4.5	289	1.18	1.2	1048.2	10.6	11	<0.1	0.1	0.9	6	0.36
1540258	Rock	3.79	1.240	2.4	4.4	3.2	15	0.7	1.7	6.1	252	1.52	<0.5	1229.9	9.6	11	<0.1	<0.1	0.9	5	0.18
1540259	Rock	3.28	0.078	1.5	3.8	5.6	15	<0.1	1.6	2.2	491	1.04	<0.5	75.6	11.4	34	<0.1	<0.1	0.1	4	1.17
1540260	Rock Pulp	0.16	0.500	7.1	274.9	16.0	48	0.6	112.3	15.3	467	2.82	170.7	259.5	3.4	75	0.2	1.9	0.1	65	1.69
1540261	Rock	3.04	0.144	2.9	2.3	4.5	33	0.2	1.5	3.1	1160	1.60	<0.5	135.3	14.7	19	<0.1	<0.1	0.1	6	0.99
1540262	Rock	3.18	0.237	1.2	1.2	3.2	25	0.1	1.7	2.8	495	1.28	0.6	189.4	10.2	16	<0.1	<0.1	<0.1	5	0.94
1540263	Rock	3.67	0.020	0.9	5.7	6.7	23	<0.1	1.7	3.2	380	1.65	1.8	18.0	9.9	64	<0.1	0.3	<0.1	16	2.10
1540264	Rock	4.12	0.009	0.7	4.5	4.1	26	<0.1	1.5	3.8	389	1.64	0.8	6.9	10.1	38	<0.1	0.3	<0.1	15	1.20
1540265	Rock	3.03	<0.005	1.3	4.0	4.3	33	<0.1	1.5	5.0	611	1.94	1.0	4.1	10.3	42	<0.1	0.2	<0.1	14	1.34
1540266	Rock	3.42	<0.005	1.0	5.6	4.4	35	<0.1	2.0	4.3	451	1.67	<0.5	4.1	10.2	69	<0.1	0.1	0.2	17	2.08
1540267	Rock	3.92	0.005	1.3	3.9	4.6	35	<0.1	2.1	4.6	638	1.87	0.7	4.1	9.8	51	<0.1	0.1	<0.1	19	2.48
1540268	Rock	4.41	<0.005	1.0	3.6	3.4	34	<0.1	1.5	4.5	528	1.76	<0.5	3.3	11.8	49	<0.1	<0.1	<0.1	18	1.43
1540269	Rock	3.83	<0.005	1.4	7.7	3.9	36	<0.1	5.5	3.9	479	1.68	<0.5	1.8	12.9	46	<0.1	<0.1	0.1	15	1.33
1540270	Rock	3.69	<0.005	1.4	6.3	3.8	41	<0.1	1.9	4.4	602	1.83	<0.5	1.7	11.3	34	<0.1	<0.1	0.1	17	1.30
1540271	Rock	3.70	<0.005	1.7	6.7	5.8	33	<0.1	1.6	2.8	483	1.40	0.5	2.3	13.1	49	0.1	<0.1	<0.1	12	1.60
1540272	Rock	3.24	0.006	5.3	34.4	4.5	28	0.3	1.8	2.8	360	1.36	<0.5	3.3	11.2	48	<0.1	<0.1	1.3	9	1.30
1540273	Rock	4.89	0.006	3.0	32.9	6.1	49	<0.1	2.1	5.3	417	1.89	0.5	4.4	10.1	53	0.2	0.1	0.5	19	1.82
1540274	Rock	4.26	<0.005	3.9	66.9	11.6	43	0.1	1.9	3.2	332	1.36	<0.5	1.4	12.2	38	0.4	<0.1	0.2	8	0.91
1540275	Rock	3.76	<0.005	1.7	100.8	7.5	50	0.1	1.8	5.2	631	2.15	<0.5	1.9	11.7	71	0.2	<0.1	1.9	22	1.41
1540276	Rock	3.93	<0.005	3.0	11.6	5.6	42	<0.1	2.5	4.4	519	1.75	0.5	2.4	11.3	61	<0.1	<0.1	0.2	19	1.55
1540277	Rock	3.79	<0.005	2.7	12.8	2.9	33	<0.1	2.0	3.1	389	1.42	<0.5	2.5	13.1	37	<0.1	<0.1	0.2	12	0.77



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Method Analyte Unit	MDL	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm
1540248	Rock	0.031	20	7	0.50	111	0.099	<20	0.95	0.032	0.49	0.4	<0.01	4.3	0.1	<0.05	4	<0.5	<0.2
1540249	Rock	0.034	21	5	0.46	136	0.111	<20	0.95	0.034	0.62	0.8	<0.01	4.2	0.2	<0.05	4	<0.5	<0.2
1540250	Rock	0.028	24	4	0.28	88	0.069	<20	0.74	0.033	0.41	0.8	<0.01	3.4	0.1	<0.05	3	<0.5	<0.2
1540251	Rock	0.029	22	4	0.34	92	0.071	<20	0.79	0.033	0.41	0.7	<0.01	3.6	0.1	<0.05	4	<0.5	<0.2
1540252	Rock	0.032	25	4	0.28	101	0.062	<20	0.80	0.024	0.40	0.5	<0.01	4.2	0.1	<0.05	4	<0.5	<0.2
1540253	Rock	0.037	26	4	0.18	102	0.034	<20	0.59	0.019	0.26	0.4	<0.01	4.0	<0.1	<0.05	3	<0.5	<0.2
1540254	Rock	0.025	27	4	0.22	70	0.052	<20	0.61	0.039	0.32	1.0	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
1540255	Rock	0.032	23	4	0.46	81	0.064	<20	0.77	0.042	0.43	0.9	<0.01	3.5	0.2	<0.05	4	<0.5	<0.2
1540256	Rock	0.026	34	4	0.28	105	0.038	<20	0.62	0.032	0.28	0.5	<0.01	4.0	0.1	<0.05	3	<0.5	<0.2
1540257	Rock	0.020	27	4	0.04	60	0.005	<20	0.33	0.020	0.13	0.9	0.05	1.7	<0.1	<0.05	1	<0.5	1.3
1540258	Rock	0.017	25	3	0.03	80	0.002	<20	0.33	0.021	0.14	1.2	0.07	1.0	<0.1	<0.05	<1	<0.5	1.3
1540259	Rock	0.027	40	4	0.04	89	0.002	<20	0.32	0.028	0.13	1.1	0.02	1.2	<0.1	<0.05	<1	<0.5	<0.2
1540260	Rock Pulp	0.031	9	117	1.44	129	0.110	<20	2.56	0.302	0.22	1.0	0.03	3.0	<0.1	0.10	5	<0.5	<0.2
1540261	Rock	0.027	38	4	0.04	266	0.001	<20	0.34	0.026	0.10	1.0	0.01	1.7	<0.1	<0.05	1	<0.5	0.3
1540262	Rock	0.028	34	4	0.04	114	0.001	<20	0.33	0.021	0.14	0.7	0.02	1.5	<0.1	<0.05	<1	<0.5	<0.2
1540263	Rock	0.032	29	4	0.05	51	0.004	<20	0.34	0.021	0.13	0.2	<0.01	4.6	<0.1	<0.05	1	<0.5	<0.2
1540264	Rock	0.030	28	5	0.19	44	0.003	<20	0.54	0.026	0.15	0.4	<0.01	3.8	<0.1	<0.05	2	<0.5	<0.2
1540265	Rock	0.034	29	4	0.12	115	0.011	<20	0.50	0.020	0.16	0.4	<0.01	4.6	<0.1	<0.05	2	<0.5	<0.2
1540266	Rock	0.047	29	5	0.17	46	0.009	<20	0.54	0.027	0.16	0.3	<0.01	4.9	<0.1	<0.05	2	<0.5	<0.2
1540267	Rock	0.031	26	5	0.20	99	0.040	<20	0.61	0.031	0.27	0.3	<0.01	3.9	<0.1	<0.05	3	<0.5	<0.2
1540268	Rock	0.035	32	5	0.30	94	0.080	<20	0.85	0.026	0.42	0.7	<0.01	4.6	0.1	<0.05	4	<0.5	<0.2
1540269	Rock	0.032	33	14	0.22	99	0.059	<20	0.75	0.026	0.33	0.7	<0.01	3.5	0.1	<0.05	3	<0.5	<0.2
1540270	Rock	0.031	32	5	0.25	118	0.062	<20	0.83	0.027	0.37	0.7	<0.01	4.1	0.1	<0.05	4	<0.5	<0.2
1540271	Rock	0.025	39	5	0.14	100	0.041	<20	0.51	0.028	0.24	0.9	<0.01	2.9	0.1	<0.05	3	<0.5	<0.2
1540272	Rock	0.025	33	7	0.15	56	0.036	<20	0.48	0.037	0.23	1.5	<0.01	2.4	0.1	<0.05	2	<0.5	<0.2
1540273	Rock	0.036	28	7	0.17	65	0.026	<20	0.55	0.034	0.27	1.1	<0.01	3.3	0.1	<0.05	2	<0.5	<0.2
1540274	Rock	0.024	31	6	0.16	53	0.042	<20	0.49	0.037	0.26	1.5	<0.01	2.4	0.1	<0.05	3	<0.5	<0.2
1540275	Rock	0.039	29	6	0.41	98	0.087	<20	0.94	0.037	0.46	1.2	<0.01	3.9	0.2	<0.05	4	<0.5	<0.2
1540276	Rock	0.038	26	7	0.21	57	0.051	<20	0.64	0.041	0.30	1.4	<0.01	3.4	0.1	<0.05	3	<0.5	<0.2
1540277	Rock	0.025	35	8	0.19	57	0.054	<20	0.55	0.051	0.29	2.3	<0.01	3.2	0.1	<0.05	3	<0.5	<0.2



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Project: LOO
Report Date: July 08, 2017

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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540278	Rock	4.02	<0.005	2.4	20.3	3.2	26	<0.1	1.9	3.0	321	1.37	0.5	5.6	12.8	36	<0.1	<0.1	0.2	10	0.81
1540279	Rock	3.94	<0.005	2.2	12.9	9.1	45	<0.1	2.0	3.1	408	1.52	<0.5	0.6	10.1	51	0.1	<0.1	0.4	14	0.89
1540280	Rock Pulp	0.13	<0.005	2.3	24.5	2.7	43	0.3	23.3	10.1	387	2.32	4.4	1.2	1.1	39	0.2	0.3	<0.1	56	0.78
1540281	Rock	4.44	<0.005	1.8	4.3	3.2	30	<0.1	1.8	2.8	423	1.43	<0.5	1.1	11.3	34	<0.1	<0.1	<0.1	12	0.64
1540282	Rock	3.83	<0.005	2.1	3.1	2.4	24	<0.1	2.0	3.0	411	1.40	<0.5	1.2	13.1	31	<0.1	<0.1	<0.1	12	0.51
1540283	Rock	3.99	<0.005	3.3	2.6	1.4	28	<0.1	2.0	3.1	400	1.52	0.5	1.5	13.7	36	<0.1	<0.1	<0.1	10	0.56
1540284	Rock	4.25	<0.005	1.9	5.3	2.9	40	<0.1	1.9	4.4	550	1.90	<0.5	1.2	11.9	55	<0.1	<0.1	<0.1	20	0.96
1540285	Rock	3.97	<0.005	2.6	4.7	3.4	40	<0.1	2.1	4.7	656	1.95	<0.5	1.4	12.3	38	<0.1	<0.1	<0.1	20	0.74
1540286	Rock	3.71	<0.005	2.2	7.3	5.0	61	<0.1	2.0	4.9	798	1.93	<0.5	0.8	11.8	45	0.1	<0.1	<0.1	18	0.92
1540287	Rock	2.43	<0.005	5.1	6.1	5.5	56	<0.1	3.7	4.7	692	1.95	<0.5	1.0	12.8	58	<0.1	<0.1	<0.1	16	1.21
1540288	Rock	2.49	<0.005	5.1	7.3	6.0	53	<0.1	2.5	5.5	996	1.97	0.6	1.4	11.8	73	0.1	0.1	0.1	17	1.62
1540289	Rock	2.55	1.175	1.7	12.1	3.2	29	0.5	6.9	5.3	385	1.58	0.6	1058.0	16.6	10	<0.1	0.1	0.2	17	0.15
1540290	Rock	5.69	6.426	3.5	7.3	3.9	8	2.5	2.9	5.3	171	1.88	1.1	6934.2	13.6	32	<0.1	0.1	2.5	4	0.07
1540291	Rock	4.49	1.434	3.5	31.0	3.7	35	0.6	2.7	12.5	709	1.90	1.2	1234.0	9.4	20	<0.1	0.1	0.7	13	0.82
1540292	Rock	2.96	0.083	6.7	21.7	3.3	28	<0.1	2.2	2.9	392	1.48	0.6	55.1	9.9	20	<0.1	0.1	<0.1	11	1.43
1540293	Rock	3.62	0.253	10.1	9.1	4.2	22	0.1	2.1	3.9	354	1.20	1.7	241.6	12.6	16	<0.1	0.1	0.2	8	0.95
1540294	Rock	3.34	0.096	2.7	9.5	2.8	13	<0.1	2.3	2.4	263	0.93	0.5	73.4	15.0	8	<0.1	<0.1	<0.1	4	0.21
1540295	Rock	3.32	0.049	2.6	6.2	4.8	21	<0.1	2.6	3.3	333	1.14	<0.5	67.4	14.0	30	<0.1	<0.1	<0.1	10	1.16
1540296	Rock	3.59	0.016	1.2	4.4	3.6	19	<0.1	2.2	1.8	220	0.93	<0.5	8.8	15.0	24	<0.1	<0.1	<0.1	6	0.77
1540297	Rock	3.62	0.011	1.6	12.7	3.6	20	<0.1	2.0	2.4	420	1.32	0.5	8.5	14.0	32	<0.1	0.1	<0.1	6	1.07
1540298	Rock	3.72	0.008	1.0	4.1	2.5	30	<0.1	1.9	4.5	475	1.68	0.7	3.1	12.5	32	<0.1	0.1	<0.1	23	1.01
1540299	Rock	3.06	<0.005	1.6	3.8	2.9	46	<0.1	1.2	10.7	1170	3.24	<0.5	1.4	5.9	71	<0.1	0.1	<0.1	67	2.88
1540300	Rock Pulp	0.09	5.118	8.8	197.5	24.3	79	0.8	15.6	12.1	544	4.00	11.3	4705.9	3.1	71	0.2	4.4	0.5	99	0.87
1540301	Rock	2.45	<0.005	1.8	5.2	2.7	51	<0.1	2.3	12.3	1540	3.49	<0.5	4.5	5.4	110	<0.1	<0.1	<0.1	81	3.96
1540302	Rock	2.16	<0.005	2.6	6.7	2.1	61	<0.1	4.5	12.8	1132	3.53	0.5	3.7	4.9	63	<0.1	<0.1	<0.1	75	1.79
1540303	Rock	2.34	<0.005	1.7	4.4	1.4	56	<0.1	2.1	12.1	1101	3.42	<0.5	2.5	3.9	62	<0.1	<0.1	<0.1	68	1.57
1540304	Rock	2.40	<0.005	1.7	7.6	1.6	58	<0.1	3.7	14.4	973	3.53	<0.5	1.6	4.6	60	<0.1	<0.1	<0.1	81	1.51
1540305	Rock	2.54	<0.005	1.6	6.8	1.3	50	<0.1	3.2	11.7	922	3.22	1.1	2.4	4.3	45	<0.1	<0.1	<0.1	68	1.19
1540306	Rock	1.78	<0.005	1.7	5.5	1.2	53	<0.1	2.0	11.5	973	3.35	0.5	1.2	4.9	48	<0.1	<0.1	<0.1	65	1.27
1540307	Rock	2.24	<0.005	3.8	4.6	2.0	62	<0.1	1.7	13.6	1434	3.54	1.8	1.3	3.6	131	<0.1	0.1	<0.1	81	3.97



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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	AQ200 P %	AQ200 La ppm	AQ200 Cr ppm	AQ200 Mg %	AQ200 Ba ppm	AQ200 Ti %	AQ200 B ppm	AQ200 Al %	AQ200 Na %	AQ200 K %	AQ200 W ppm	AQ200 Hg ppm	AQ200 Sc ppm	AQ200 Ti ppm	AQ200 S %	AQ200 Ga ppm	AQ200 Se ppm	AQ200 Te ppm	
																			0.001
1540278	Rock	0.022	30	8	0.14	45	0.038	<20	0.46	0.045	0.23	2.5	<0.01	2.9	<0.1	<0.05	3	<0.5	<0.2
1540279	Rock	0.031	28	9	0.25	66	0.077	<20	0.69	0.041	0.38	2.4	<0.01	3.4	0.2	<0.05	4	<0.5	<0.2
1540280	Rock Pulp	0.061	4	29	0.76	96	0.135	<20	1.48	0.075	0.12	13.2	0.01	4.7	<0.1	<0.05	5	<0.5	<0.2
1540281	Rock	0.023	31	8	0.22	57	0.072	<20	0.62	0.046	0.37	3.6	<0.01	2.9	0.1	<0.05	3	<0.5	<0.2
1540282	Rock	0.023	30	9	0.22	61	0.071	<20	0.61	0.053	0.36	3.5	<0.01	3.0	0.1	<0.05	3	<0.5	<0.2
1540283	Rock	0.024	33	10	0.39	78	0.072	<20	0.67	0.055	0.41	3.4	<0.01	2.7	0.1	<0.05	4	<0.5	<0.2
1540284	Rock	0.030	35	9	0.48	91	0.104	<20	0.88	0.051	0.52	1.5	<0.01	3.7	0.2	<0.05	4	<0.5	<0.2
1540285	Rock	0.033	32	8	0.45	127	0.117	<20	0.91	0.049	0.58	1.5	<0.01	3.9	0.2	<0.05	4	<0.5	<0.2
1540286	Rock	0.034	34	8	0.42	156	0.096	<20	0.90	0.039	0.47	1.2	<0.01	3.7	0.2	<0.05	5	<0.5	<0.2
1540287	Rock	0.030	37	14	0.26	108	0.046	<20	0.67	0.037	0.27	1.4	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
1540288	Rock	0.033	36	12	0.25	153	0.021	<20	0.66	0.029	0.17	0.8	<0.01	4.3	<0.1	<0.05	3	<0.5	<0.2
1540289	Rock	0.025	30	13	0.25	93	0.040	<20	0.71	0.028	0.25	0.8	0.09	3.7	<0.1	<0.05	3	<0.5	0.4
1540290	Rock	0.015	23	6	0.05	169	0.005	<20	0.32	0.038	0.19	1.6	0.36	1.0	<0.1	0.15	1	<0.5	5.8
1540291	Rock	0.046	29	4	0.05	125	0.006	<20	0.45	0.022	0.17	0.5	0.15	3.6	<0.1	<0.05	1	<0.5	1.3
1540292	Rock	0.033	25	3	0.07	84	0.012	<20	0.40	0.016	0.17	0.4	0.04	2.1	<0.1	<0.05	2	<0.5	<0.2
1540293	Rock	0.025	33	4	0.04	102	0.006	<20	0.39	0.002	0.15	0.3	0.02	2.2	<0.1	<0.05	1	<0.5	0.3
1540294	Rock	0.016	27	5	0.02	53	0.001	<20	0.31	0.001	0.11	0.9	0.01	1.1	<0.1	<0.05	<1	<0.5	<0.2
1540295	Rock	0.020	28	6	0.06	65	0.004	<20	0.34	0.006	0.12	0.7	<0.01	1.9	<0.1	<0.05	1	<0.5	<0.2
1540296	Rock	0.014	28	4	0.05	49	0.006	<20	0.31	0.029	0.12	0.7	<0.01	1.1	<0.1	<0.05	1	<0.5	<0.2
1540297	Rock	0.015	28	4	0.07	90	0.012	<20	0.38	0.018	0.14	0.7	<0.01	1.5	<0.1	<0.05	1	<0.5	<0.2
1540298	Rock	0.027	26	5	0.34	127	0.064	<20	0.75	0.027	0.38	0.8	<0.01	3.6	0.1	<0.05	3	<0.5	<0.2
1540299	Rock	0.058	21	3	0.81	379	0.168	<20	1.41	0.019	0.84	0.3	<0.01	8.6	0.2	<0.05	6	<0.5	<0.2
1540300	Rock Pulp	0.057	8	21	0.85	130	0.143	<20	1.68	0.172	0.23	5.6	0.15	3.3	<0.1	<0.05	5	<0.5	<0.2
1540301	Rock	0.062	20	6	1.13	491	0.194	<20	1.82	0.027	1.10	0.3	<0.01	8.8	0.2	<0.05	7	<0.5	<0.2
1540302	Rock	0.060	16	14	1.29	385	0.194	<20	1.90	0.033	1.09	0.4	<0.01	6.2	0.2	<0.05	8	<0.5	<0.2
1540303	Rock	0.062	15	6	1.27	396	0.211	<20	1.92	0.043	1.08	0.5	<0.01	5.3	0.2	<0.05	7	<0.5	<0.2
1540304	Rock	0.056	14	10	1.35	422	0.218	<20	2.03	0.040	1.23	0.6	<0.01	4.5	0.2	<0.05	7	<0.5	<0.2
1540305	Rock	0.059	15	9	1.18	355	0.184	<20	1.74	0.044	1.00	0.4	<0.01	4.3	0.2	<0.05	6	<0.5	<0.2
1540306	Rock	0.059	14	6	1.28	366	0.197	<20	1.87	0.039	1.05	0.5	<0.01	4.3	0.2	<0.05	7	<0.5	<0.2
1540307	Rock	0.044	21	3	1.44	338	0.079	<20	2.03	0.014	0.64	0.1	0.01	7.9	0.1	<0.05	10	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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Method	Analyte	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
1540308	Rock	2.30	<0.005	6.4	6.0	2.9	58	<0.1	1.8	12.1	1279	3.38	1.6	<0.5	4.5	126	<0.1	0.2	<0.1	63	3.30
1540309	Rock	2.63	<0.005	2.4	6.3	1.9	56	<0.1	1.9	13.1	979	3.43	0.6	0.9	4.1	65	<0.1	<0.1	<0.1	73	1.51
1540310	Rock	1.79	0.008	2.0	8.6	3.2	50	<0.1	3.5	5.2	552	1.84	<0.5	5.2	10.1	33	<0.1	<0.1	<0.1	22	1.61
1540311	Rock	3.77	0.006	1.2	3.3	3.1	41	<0.1	2.4	4.7	578	1.87	<0.5	1.5	10.2	30	<0.1	<0.1	<0.1	21	1.43
1540312	Rock	3.57	<0.005	3.7	1.7	6.6	48	<0.1	2.3	5.7	876	2.24	<0.5	1.2	8.8	68	<0.1	<0.1	<0.1	21	4.61
1540313	Rock	2.76	<0.005	0.7	2.6	4.8	30	<0.1	1.9	4.1	527	1.64	<0.5	0.8	9.2	73	<0.1	<0.1	<0.1	20	2.55
1540314	Rock	3.03	<0.005	1.2	2.5	3.9	32	<0.1	2.1	3.7	460	1.64	<0.5	1.7	11.2	35	<0.1	<0.1	<0.1	17	1.64
1540315	Rock	2.90	0.011	1.9	3.5	4.9	59	<0.1	1.8	3.8	834	2.14	<0.5	6.4	10.6	51	<0.1	<0.1	<0.1	11	3.88
1540316	Rock	2.96	0.123	1.4	12.5	3.6	24	0.2	2.2	2.9	368	1.14	<0.5	111.9	11.8	19	<0.1	<0.1	0.3	6	1.25
1540317	Rock	2.92	0.074	2.3	18.0	5.2	39	<0.1	1.8	3.5	559	1.58	<0.5	61.0	10.4	28	0.1	<0.1	0.3	10	4.13
1540318	Rock	3.06	0.044	2.3	25.4	3.7	20	<0.1	1.7	2.5	404	1.03	<0.5	33.6	11.6	13	<0.1	<0.1	0.8	5	0.52
1540319	Rock	2.81	0.086	2.7	60.1	9.5	54	0.2	2.1	2.6	298	1.16	<0.5	51.0	13.1	11	0.1	1.2	1.9	4	0.41
1540320	Rock Pulp	0.13	<0.005	2.4	28.2	2.4	43	0.4	23.5	10.8	426	2.42	4.8	1.4	0.9	40	0.3	0.3	<0.1	58	0.81



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Project: LOO
Report Date: July 08, 2017

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CERTIFICATE OF ANALYSIS

WHI17000134.1

Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1540308	Rock	0.051	24	6	1.28	206	0.077	<20	1.87	0.017	0.58	0.2	0.02	6.8	0.1	<0.05	9	<0.5	<0.2
1540309	Rock	0.052	13	6	1.33	290	0.148	<20	1.88	0.028	0.85	0.4	<0.01	5.4	0.1	<0.05	7	<0.5	<0.2
1540310	Rock	0.035	28	8	0.31	123	0.074	<20	0.78	0.018	0.41	0.6	<0.01	3.9	0.1	<0.05	4	<0.5	<0.2
1540311	Rock	0.034	30	5	0.34	139	0.094	<20	0.85	0.018	0.48	0.8	<0.01	4.1	0.1	<0.05	4	<0.5	<0.2
1540312	Rock	0.035	31	4	0.29	333	0.068	<20	0.70	0.004	0.39	0.7	<0.01	4.5	0.1	<0.05	3	<0.5	<0.2
1540313	Rock	0.032	29	4	0.29	114	0.077	<20	0.78	0.020	0.43	0.4	<0.01	3.7	0.1	<0.05	3	<0.5	<0.2
1540314	Rock	0.036	31	4	0.22	109	0.057	<20	0.68	0.008	0.33	0.5	<0.01	4.0	<0.1	<0.05	3	<0.5	<0.2
1540315	Rock	0.030	32	3	0.13	161	0.007	<20	0.37	0.014	0.10	0.4	<0.01	2.3	<0.1	<0.05	1	<0.5	<0.2
1540316	Rock	0.024	30	4	0.05	90	0.003	<20	0.32	0.020	0.14	0.6	<0.01	1.1	<0.1	<0.05	1	<0.5	<0.2
1540317	Rock	0.020	27	3	0.06	304	0.003	<20	0.27	0.010	0.14	0.4	<0.01	1.4	<0.1	<0.05	<1	<0.5	<0.2
1540318	Rock	0.022	29	4	0.05	97	0.007	<20	0.35	0.021	0.16	0.4	<0.01	1.4	<0.1	<0.05	1	<0.5	<0.2
1540319	Rock	0.026	32	5	0.05	89	0.007	<20	0.34	0.016	0.14	0.7	<0.01	1.6	<0.1	<0.05	1	<0.5	0.4
1540320	Rock Pulp	0.059	5	32	0.78	94	0.135	<20	1.52	0.080	0.13	12.8	0.01	4.6	<0.1	<0.05	5	<0.5	<0.2



QUALITY CONTROL REPORT

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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
1540198	Rock	3.69	<0.005	1.8	3.1	3.4	38	<0.1	1.8	4.7	610	1.97	<0.5	<0.5	10.6	37	<0.1	<0.1	<0.1	24	1.27
REP 1540198	QC			1.9	2.4	3.3	38	<0.1	1.8	4.7	620	1.98	<0.5	<0.5	10.4	38	<0.1	<0.1	<0.1	24	1.27
1540224	Rock	4.31	<0.005	1.5	5.0	2.7	38	<0.1	2.6	5.0	491	2.07	<0.5	<0.5	8.6	73	<0.1	<0.1	<0.1	29	1.69
REP 1540224	QC		<0.005																		
1540237	Rock	3.98	<0.005	1.8	5.0	1.6	40	<0.1	2.5	5.8	464	2.24	<0.5	<0.5	6.9	57	<0.1	<0.1	<0.1	30	1.04
REP 1540237	QC			1.8	5.1	1.6	36	<0.1	2.4	5.5	490	2.24	<0.5	<0.5	7.2	56	<0.1	<0.1	<0.1	30	1.04
1540244	Rock	3.51	<0.005	2.9	3.4	2.4	35	<0.1	2.0	4.3	499	1.93	1.8	<0.5	10.2	52	<0.1	<0.1	<0.1	20	1.05
REP 1540244	QC		<0.005																		
1540272	Rock	3.24	0.006	5.3	34.4	4.5	28	0.3	1.8	2.8	360	1.36	<0.5	3.3	11.2	48	<0.1	<0.1	1.3	9	1.30
REP 1540272	QC			4.9	34.1	4.3	28	0.3	1.6	2.9	358	1.34	0.8	3.3	11.5	47	0.1	<0.1	1.4	9	1.30
1540297	Rock	3.62	0.011	1.6	12.7	3.6	20	<0.1	2.0	2.4	420	1.32	0.5	8.5	14.0	32	<0.1	0.1	<0.1	6	1.07
REP 1540297	QC		0.013																		
1540306	Rock	1.78	<0.005	1.7	5.5	1.2	53	<0.1	2.0	11.5	973	3.35	0.5	1.2	4.9	48	<0.1	<0.1	<0.1	65	1.27
REP 1540306	QC			1.8	5.8	1.2	58	<0.1	2.3	12.8	1058	3.36	<0.5	1.1	4.8	54	<0.1	<0.1	<0.1	65	1.28
1540317	Rock	2.92	0.074	2.3	18.0	5.2	39	<0.1	1.8	3.5	559	1.58	<0.5	61.0	10.4	28	0.1	<0.1	0.3	10	4.13
REP 1540317	QC		0.076																		
Core Reject Duplicates																					
1540202	Rock	3.84	<0.005	4.1	6.2	3.5	27	<0.1	1.8	3.2	342	1.46	<0.5	<0.5	13.6	34	<0.1	<0.1	0.3	19	0.75
DUP 1540202	QC		<0.005	4.2	6.2	3.5	27	<0.1	1.8	3.2	343	1.46	0.6	<0.5	13.6	34	<0.1	<0.1	0.3	19	0.75
1540241	Rock	3.94	<0.005	1.8	4.7	1.9	29	<0.1	1.9	3.8	428	1.63	<0.5	<0.5	11.0	50	<0.1	<0.1	<0.1	19	0.91
DUP 1540241	QC		0.009	1.8	4.5	2.0	28	<0.1	1.8	3.7	422	1.64	<0.5	<0.5	11.1	50	<0.1	<0.1	<0.1	18	0.92
1540275	Rock	3.76	<0.005	1.7	100.8	7.5	50	0.1	1.8	5.2	631	2.15	<0.5	1.9	11.7	71	0.2	<0.1	1.9	22	1.41
DUP 1540275	QC		<0.005	1.9	98.8	7.5	54	0.1	1.9	5.0	624	2.14	<0.5	1.7	11.9	71	0.2	<0.1	1.9	22	1.41
1540309	Rock	2.63	<0.005	2.4	6.3	1.9	56	<0.1	1.9	13.1	979	3.43	0.6	0.9	4.1	65	<0.1	<0.1	<0.1	73	1.51
DUP 1540309	QC		<0.005	2.4	6.9	2.0	64	<0.1	2.1	13.6	1062	3.44	0.5	<0.5	4.5	75	<0.1	<0.1	<0.1	73	1.51
Reference Materials																					
STD DS10	Standard			13.7	147.2	140.2	360	1.8	73.3	12.4	873	2.64	43.9	86.3	7.4	70	2.7	8.6	12.3	41	1.04
STD DS10	Standard			12.2	149.3	138.1	340	1.7	72.2	13.0	892	2.76	46.6	59.7	6.4	61	2.6	7.0	11.3	42	1.06



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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																			
1540198	Rock	0.035	28	5	0.33	127	0.087	<20	0.86	0.021	0.46	0.5	<0.01	4.1	0.1	<0.05	4	<0.5	<0.2
REP 1540198	QC	0.036	28	5	0.33	125	0.087	<20	0.85	0.021	0.47	0.5	<0.01	4.1	0.1	<0.05	4	<0.5	<0.2
1540224	Rock	0.034	24	8	0.42	149	0.091	<20	0.93	0.031	0.48	0.5	<0.01	4.3	0.2	<0.05	5	<0.5	<0.2
REP 1540224	QC																		
1540237	Rock	0.042	22	10	0.61	98	0.092	<20	1.03	0.035	0.59	0.9	0.01	4.2	0.2	<0.05	5	<0.5	<0.2
REP 1540237	QC	0.041	22	9	0.61	98	0.094	<20	1.02	0.035	0.59	0.9	<0.01	4.5	0.2	<0.05	4	<0.5	<0.2
1540244	Rock	0.028	30	12	0.41	70	0.057	<20	0.84	0.038	0.36	1.0	<0.01	2.7	0.1	<0.05	4	<0.5	<0.2
REP 1540244	QC																		
1540272	Rock	0.025	33	7	0.15	56	0.036	<20	0.48	0.037	0.23	1.5	<0.01	2.4	0.1	<0.05	2	<0.5	<0.2
REP 1540272	QC	0.022	31	6	0.14	52	0.035	<20	0.48	0.037	0.23	1.4	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
1540297	Rock	0.015	28	4	0.07	90	0.012	<20	0.38	0.018	0.14	0.7	<0.01	1.5	<0.1	<0.05	1	<0.5	<0.2
REP 1540297	QC																		
1540306	Rock	0.059	14	6	1.28	366	0.197	<20	1.87	0.039	1.05	0.5	<0.01	4.3	0.2	<0.05	7	<0.5	<0.2
REP 1540306	QC	0.066	14	6	1.28	361	0.196	<20	1.86	0.040	1.05	0.5	<0.01	4.1	0.2	<0.05	8	<0.5	<0.2
1540317	Rock	0.020	27	3	0.06	304	0.003	<20	0.27	0.010	0.14	0.4	<0.01	1.4	<0.1	<0.05	<1	<0.5	<0.2
REP 1540317	QC																		
Core Reject Duplicates																			
1540202	Rock	0.024	22	6	0.20	68	0.050	<20	0.62	0.033	0.30	1.1	<0.01	2.5	0.1	<0.05	3	<0.5	<0.2
DUP 1540202	QC	0.026	23	6	0.20	66	0.050	<20	0.63	0.034	0.31	1.1	<0.01	2.6	0.1	<0.05	3	<0.5	<0.2
1540241	Rock	0.025	30	10	0.33	139	0.079	<20	0.76	0.044	0.43	1.2	<0.01	2.4	0.2	<0.05	4	<0.5	<0.2
DUP 1540241	QC	0.024	30	11	0.33	144	0.083	<20	0.76	0.044	0.43	1.3	<0.01	2.4	0.1	<0.05	4	<0.5	<0.2
1540275	Rock	0.039	29	6	0.41	98	0.087	<20	0.94	0.037	0.46	1.2	<0.01	3.9	0.2	<0.05	4	<0.5	<0.2
DUP 1540275	QC	0.042	31	6	0.40	100	0.090	<20	0.94	0.037	0.46	1.3	<0.01	3.9	0.2	<0.05	5	<0.5	<0.2
1540309	Rock	0.052	13	6	1.33	290	0.148	<20	1.88	0.028	0.85	0.4	<0.01	5.4	0.1	<0.05	7	<0.5	<0.2
DUP 1540309	QC	0.051	15	6	1.32	298	0.156	<20	1.90	0.029	0.86	0.4	<0.01	5.5	0.1	<0.05	8	<0.5	<0.2
Reference Materials																			
STD DS10	Standard	0.076	18	54	0.76	415	0.082	<20	1.01	0.069	0.33	3.0	0.27	3.0	4.8	0.27	4	2.0	4.7
STD DS10	Standard	0.077	16	55	0.79	420	0.078	<20	1.05	0.070	0.33	3.0	0.26	2.8	4.9	0.27	4	1.3	4.8



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		WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
STD DS10	Standard			14.4	158.3	152.7	354	1.8	70.8	12.9	806	2.72	48.0	50.8	7.7	67	2.6	8.9	13.4	42	1.04
STD DS10	Standard			13.7	166.1	154.2	361	2.3	79.1	13.5	874	2.72	47.3	52.5	7.8	66	3.0	9.4	14.8	42	1.05
STD OREAS45EA	Standard			1.4	649.9	13.6	30	0.2	371.9	48.0	380	19.69	11.4	62.0	10.0	4	<0.1	0.4	0.3	297	0.03
STD OREAS45EA	Standard			1.6	691.9	12.1	27	0.2	397.2	49.9	410	20.39	12.0	49.0	8.3	3	<0.1	0.4	0.2	315	0.03
STD OREAS45EA	Standard			1.8	714.0	16.3	34	0.3	392.9	56.1	424	24.25	12.7	53.0	12.3	4	<0.1	0.4	0.3	329	0.03
STD OREAS45EA	Standard			1.7	711.9	15.7	32	0.3	388.0	54.7	413	24.13	11.2	54.4	11.3	4	<0.1	0.4	0.3	325	0.03
STD OXC145	Standard		0.217																		
STD OXC145	Standard		0.208																		
STD OXH122	Standard		1.230																		
STD OXH122	Standard		1.271																		
STD OXN117	Standard		7.737																		
STD OXN117	Standard		7.696																		
STD OXN117 Expected			7.679																		
STD OXC145 Expected			0.212																		
STD OXH122 Expected			1.247																		
STD DS10 Expected				13.6	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625
STD OREAS45EA Expected				1.6	709	14.3	31.4	0.26	381	52	400	23.51	10.3	53	10.7	3.5	0.03	0.32	0.26	303	0.036
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
Prep Wash																					
ROCK-WHI	Prep Blank		<0.005	0.7	3.9	1.6	30	<0.1	0.9	3.4	396	1.58	1.0	0.6	2.4	22	<0.1	<0.1	<0.1	21	0.53
ROCK-WHI	Prep Blank		<0.005	0.9	2.6	1.3	30	<0.1	1.0	3.6	395	1.65	1.1	<0.5	2.5	27	<0.1	<0.1	<0.1	22	0.58



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		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS10	Standard	0.071	18	55	0.78	401	0.082	<20	1.02	0.069	0.34	3.3	0.27	2.9	4.8	0.27	4	1.7	4.6
STD DS10	Standard	0.079	20	56	0.77	405	0.083	<20	1.03	0.069	0.33	3.1	0.28	2.9	5.6	0.28	4	2.3	5.0
STD OREAS45EA	Standard	0.028	7	752	0.09	145	0.099	<20	3.08	0.020	0.05	<0.1	<0.01	75.1	<0.1	<0.05	11	1.1	<0.2
STD OREAS45EA	Standard	0.027	6	893	0.09	132	0.094	<20	3.21	0.021	0.05	<0.1	<0.01	76.0	<0.1	<0.05	12	<0.5	<0.2
STD OREAS45EA	Standard	0.030	8	885	0.10	156	0.111	<20	3.31	0.020	0.05	<0.1	<0.01	80.4	<0.1	<0.05	13	1.3	<0.2
STD OREAS45EA	Standard	0.032	8	892	0.09	155	0.108	<20	3.21	0.020	0.05	<0.1	<0.01	80.5	<0.1	<0.05	13	0.9	<0.2
STD OXC145	Standard																		
STD OXC145	Standard																		
STD OXH122	Standard																		
STD OXH122	Standard																		
STD OXN117	Standard																		
STD OXN117	Standard																		
STD OXN117 Expected																			
STD OXC145 Expected																			
STD OXH122 Expected																			
STD DS10 Expected		0.0765	17.5	54.6	0.775	412	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3	2.3	5.01
STD OREAS45EA Expected		0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053			78	0.072	0.036	12.4	0.78	0.07
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																			
ROCK-WHI	Prep Blank	0.043	5	4	0.38	60	0.078	<20	0.76	0.062	0.06	0.1	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
ROCK-WHI	Prep Blank	0.043	5	4	0.39	74	0.083	<20	0.87	0.081	0.08	0.1	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2



BUREAU VERITAS MINERAL LABORATORIES
Canada

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

Client: **White Gold Corp.**
Box 70
Dawson Yukon Y0B 1G0 Canada

Submitted By: Jodie Gibson
Receiving Lab: Canada-Whitehorse
Received: June 23, 2017
Report Date: July 08, 2017
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CERTIFICATE OF ANALYSIS

WHI17000135.1

CLIENT JOB INFORMATION

Project: LOO
Shipment ID: LOO-20170622-001-ROCK
P.O. Number
Number of Samples: 99

SAMPLE DISPOSAL

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

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

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

CC: Isaac Fage
Shawn Ryan

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	95	Crush, split and pulverize 250 g rock to 200 mesh			WHI
SLBHP	4	Sort, label and box pulps			WHI
FA430	99	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	99	Environmental disposal charge-Fire assay lead waste			VAN
AQ200	99	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	99	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



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



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Project: LOO
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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540321	Rock	2.59	4.201	2.1	15.3	6.8	21	3.1	2.4	3.4	285	1.60	<0.5	4223.2	10.4	14	<0.1	<0.1	2.3	4	0.44
1540322	Rock	2.77	0.744	3.8	3.5	5.0	26	0.7	2.3	6.8	886	2.45	<0.5	792.4	12.7	32	<0.1	<0.1	0.4	5	1.76
1540323	Rock	2.73	0.689	2.0	4.7	4.7	16	0.8	2.2	4.5	382	1.20	<0.5	759.9	9.7	23	<0.1	<0.1	0.5	4	1.86
1540324	Rock	3.16	0.193	1.0	10.4	3.7	40	0.2	2.2	5.9	557	2.01	0.9	218.2	8.5	37	<0.1	0.2	0.1	20	1.14
1540325	Rock	3.01	0.028	1.0	12.8	2.9	49	<0.1	2.6	6.5	526	2.32	<0.5	24.8	7.1	38	<0.1	0.1	<0.1	32	1.51
1540326	Rock	2.48	0.038	0.8	10.1	3.8	35	<0.1	1.8	4.3	506	1.77	<0.5	46.9	8.3	69	<0.1	0.1	<0.1	20	1.86
1540327	Rock	2.86	0.012	0.9	7.7	2.2	34	<0.1	2.1	4.1	438	1.68	<0.5	10.6	8.8	37	<0.1	<0.1	<0.1	17	1.07
1540328	Rock	2.45	0.017	0.9	6.2	2.2	42	<0.1	2.4	4.2	489	1.72	<0.5	16.1	9.2	35	<0.1	<0.1	<0.1	15	0.95
1540329	Rock	3.21	0.011	0.6	6.0	3.0	38	<0.1	2.2	4.5	531	1.90	<0.5	9.8	9.3	49	<0.1	0.1	<0.1	18	1.15
1540330	Rock	2.93	0.011	1.7	8.8	3.8	33	<0.1	2.2	3.7	521	1.63	<0.5	8.9	10.8	64	<0.1	0.2	<0.1	15	1.87
1540331	Rock	3.40	0.014	1.0	6.9	2.6	37	<0.1	2.6	4.4	479	1.95	<0.5	11.9	8.8	32	<0.1	0.2	<0.1	18	0.99
1540332	Rock	2.77	0.011	1.1	5.7	2.9	42	<0.1	4.1	4.6	530	1.82	<0.5	13.2	8.4	44	<0.1	0.1	<0.1	20	1.29
1540333	Rock	3.18	0.012	1.2	7.9	1.7	42	<0.1	2.5	3.8	569	1.80	<0.5	9.2	12.3	33	<0.1	<0.1	<0.1	19	1.01
1540334	Rock	2.80	0.006	1.1	6.1	1.5	40	<0.1	2.0	2.9	472	1.53	<0.5	5.9	12.2	39	<0.1	<0.1	<0.1	17	1.01
1540335	Rock	2.80	0.006	1.5	9.6	2.2	31	<0.1	2.8	2.9	373	1.56	<0.5	7.5	9.4	27	<0.1	<0.1	0.3	13	0.59
1540336	Rock	3.14	0.014	4.5	30.7	3.8	33	<0.1	2.5	2.8	440	1.46	<0.5	14.7	12.3	46	<0.1	<0.1	0.6	10	0.93
1540337	Rock	3.21	<0.005	3.0	28.1	4.9	33	<0.1	2.4	2.7	399	1.46	<0.5	5.9	9.2	56	<0.1	0.1	0.8	11	1.12
1540338	Rock	2.98	0.009	9.4	33.8	7.9	36	0.2	2.2	2.9	345	1.46	<0.5	7.0	11.8	33	0.1	<0.1	5.5	10	0.53
1540339	Rock	2.98	0.011	4.8	34.1	15.2	37	0.4	3.1	2.8	374	1.50	<0.5	11.5	10.5	34	0.1	<0.1	2.6	9	0.70
1540340	Rock Pulp	0.11	0.552	6.7	283.0	14.8	53	0.6	113.3	14.9	449	2.87	168.4	348.2	3.1	79	0.2	1.5	0.1	65	1.76
1540341	Rock	2.56	0.007	3.5	11.6	4.0	26	<0.1	2.1	2.7	349	1.26	<0.5	3.5	10.8	42	<0.1	<0.1	0.3	9	0.93
1540342	Rock	2.93	<0.005	2.1	10.5	2.9	32	<0.1	2.2	2.9	433	1.37	<0.5	4.4	11.9	31	<0.1	<0.1	0.2	10	1.07
1540343	Rock	3.01	0.006	1.7	5.8	1.4	32	<0.1	2.9	3.5	401	1.56	<0.5	4.8	10.4	35	<0.1	<0.1	<0.1	16	0.64
1540344	Rock	2.96	<0.005	2.0	5.2	2.1	31	<0.1	2.3	2.9	396	1.46	<0.5	3.2	10.9	45	<0.1	<0.1	<0.1	11	0.75
1540345	Rock	2.76	<0.005	1.4	6.8	3.5	34	<0.1	2.1	3.1	307	1.56	<0.5	3.1	10.8	26	<0.1	<0.1	<0.1	12	0.50
1540346	Rock	2.52	<0.005	1.6	6.5	8.3	38	<0.1	2.1	3.0	591	1.47	1.0	1.5	8.5	82	0.1	<0.1	<0.1	10	2.59
1540347	Rock	3.35	<0.005	2.7	8.0	3.6	27	<0.1	2.6	2.3	448	1.21	<0.5	3.6	9.8	24	<0.1	<0.1	<0.1	8	0.60
1540348	Rock	3.27	<0.005	1.7	10.7	5.1	52	<0.1	2.3	3.8	462	1.66	<0.5	2.3	11.1	45	0.2	<0.1	<0.1	18	0.92
1540349	Rock	2.78	<0.005	5.1	8.8	5.8	37	<0.1	1.9	3.1	535	1.42	<0.5	2.5	9.2	90	0.2	<0.1	0.1	9	2.06
1540350	Rock	2.48	<0.005	2.6	7.4	3.0	32	<0.1	2.5	2.7	403	1.21	<0.5	1.5	10.9	45	<0.1	<0.1	<0.1	7	1.06



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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1540321	Rock	0.020	23	6	0.04	64	0.003	<20	0.45	0.041	0.20	0.5	0.12	1.2	<0.1	<0.05	1	<0.5	4.4	
1540322	Rock	0.027	31	4	0.06	172	0.001	<20	0.44	0.029	0.24	0.4	0.03	1.1	<0.1	<0.05	1	<0.5	1.2	
1540323	Rock	0.024	26	5	0.05	123	0.001	<20	0.41	0.027	0.25	0.4	0.02	0.9	<0.1	<0.05	1	<0.5	0.8	
1540324	Rock	0.033	27	5	0.16	387	0.014	<20	0.54	0.036	0.17	0.3	0.02	4.5	<0.1	<0.05	2	<0.5	0.2	
1540325	Rock	0.047	23	8	0.32	89	0.034	<20	0.77	0.044	0.26	0.4	<0.01	5.5	<0.1	<0.05	4	<0.5	<0.2	
1540326	Rock	0.037	26	4	0.24	79	0.020	<20	0.50	0.026	0.18	0.3	<0.01	4.5	<0.1	<0.05	2	<0.5	<0.2	
1540327	Rock	0.029	26	6	0.27	65	0.045	<20	0.71	0.047	0.27	0.3	<0.01	3.6	<0.1	<0.05	3	<0.5	<0.2	
1540328	Rock	0.028	27	5	0.39	55	0.043	<20	0.76	0.042	0.26	0.3	<0.01	3.0	<0.1	<0.05	4	<0.5	<0.2	
1540329	Rock	0.029	28	6	0.37	57	0.057	<20	0.88	0.050	0.31	0.4	<0.01	3.5	<0.1	<0.05	4	<0.5	<0.2	
1540330	Rock	0.031	29	5	0.24	56	0.011	<20	0.57	0.039	0.14	0.2	<0.01	3.1	<0.1	<0.05	3	<0.5	<0.2	
1540331	Rock	0.031	26	7	0.41	49	0.026	<20	0.89	0.054	0.23	0.2	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2	
1540332	Rock	0.040	24	8	0.44	64	0.047	<20	0.87	0.045	0.29	0.3	<0.01	3.3	<0.1	<0.05	5	<0.5	<0.2	
1540333	Rock	0.029	33	8	0.55	80	0.077	<20	0.94	0.076	0.47	0.7	<0.01	4.0	0.1	<0.05	5	<0.5	<0.2	
1540334	Rock	0.026	28	6	0.60	65	0.077	<20	0.76	0.074	0.44	0.8	<0.01	3.6	0.1	<0.05	4	<0.5	<0.2	
1540335	Rock	0.019	25	8	0.29	53	0.042	<20	0.67	0.068	0.30	0.9	<0.01	2.6	0.1	<0.05	3	<0.5	<0.2	
1540336	Rock	0.022	30	8	0.21	61	0.033	<20	0.57	0.046	0.22	0.9	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2	
1540337	Rock	0.022	29	7	0.21	57	0.039	<20	0.66	0.050	0.27	0.7	<0.01	2.2	0.1	<0.05	3	<0.5	<0.2	
1540338	Rock	0.021	30	7	0.23	48	0.050	<20	0.60	0.048	0.28	1.5	<0.01	2.3	0.1	<0.05	3	<0.5	<0.2	
1540339	Rock	0.021	29	10	0.19	66	0.046	<20	0.63	0.058	0.30	1.1	<0.01	2.0	0.1	<0.05	3	<0.5	<0.2	
1540340	Rock Pulp	0.033	8	107	1.43	119	0.102	<20	2.66	0.320	0.23	1.1	0.05	3.1	<0.1	0.10	6	<0.5	<0.2	
1540341	Rock	0.023	29	7	0.20	70	0.043	<20	0.58	0.041	0.28	1.1	<0.01	2.2	0.1	<0.05	3	<0.5	<0.2	
1540342	Rock	0.024	28	9	0.29	49	0.036	<20	0.63	0.062	0.28	0.8	<0.01	2.8	<0.1	<0.05	3	<0.5	<0.2	
1540343	Rock	0.029	27	9	0.50	90	0.072	<20	0.75	0.072	0.43	0.9	<0.01	3.9	0.1	<0.05	4	<0.5	<0.2	
1540344	Rock	0.025	29	7	0.41	63	0.059	<20	0.72	0.047	0.36	0.8	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2	
1540345	Rock	0.024	26	8	0.25	58	0.057	<20	0.83	0.055	0.34	0.5	<0.01	2.5	0.1	<0.05	4	<0.5	<0.2	
1540346	Rock	0.019	23	7	0.49	35	0.023	<20	0.45	0.025	0.17	0.4	<0.01	2.3	<0.1	<0.05	2	<0.5	<0.2	
1540347	Rock	0.021	26	12	0.15	86	0.033	<20	0.59	0.046	0.23	0.6	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2	
1540348	Rock	0.029	33	8	0.31	68	0.078	<20	0.82	0.037	0.43	0.6	<0.01	3.7	0.1	<0.05	4	<0.5	<0.2	
1540349	Rock	0.024	28	8	0.17	81	0.020	<20	0.60	0.033	0.20	0.4	<0.01	2.2	<0.1	<0.05	2	<0.5	<0.2	
1540350	Rock	0.022	29	9	0.13	49	0.022	<20	0.48	0.046	0.20	0.6	<0.01	2.0	<0.1	<0.05	2	<0.5	<0.2	



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
1540351	Rock	3.01	<0.005	1.7	4.2	4.1	36	<0.1	2.2	2.5	453	1.40	<0.5	2.6	7.1	75	<0.1	<0.1	<0.1	13	1.67
1540352	Rock	2.49	0.008	1.5	14.1	5.9	45	<0.1	7.1	4.5	496	1.66	1.3	7.1	8.8	10	<0.1	0.1	<0.1	18	0.24
1540353	Rock	3.18	<0.005	1.5	8.1	3.7	42	<0.1	3.1	3.1	541	1.57	<0.5	2.3	9.4	17	<0.1	<0.1	<0.1	12	0.81
1540354	Rock	4.44	<0.005	0.7	7.6	2.9	30	<0.1	2.3	2.6	407	1.31	<0.5	0.6	11.4	22	<0.1	<0.1	0.4	9	0.73
1540355	Rock	2.38	<0.005	0.7	7.4	3.9	37	<0.1	2.1	2.6	479	1.49	<0.5	0.9	12.2	48	<0.1	0.2	0.1	11	1.13
1540356	Rock	2.87	<0.005	1.1	8.0	3.2	37	<0.1	2.1	2.6	450	1.47	<0.5	<0.5	10.5	24	<0.1	<0.1	0.1	13	0.78
1540357	Rock	2.33	<0.005	1.1	4.3	4.8	30	<0.1	1.2	2.0	454	1.22	<0.5	<0.5	11.6	29	<0.1	<0.1	<0.1	9	0.93
1540358	Rock	2.51	<0.005	1.1	7.4	4.7	33	<0.1	2.3	2.4	485	1.39	<0.5	<0.5	13.5	29	<0.1	<0.1	<0.1	9	0.98
1540359	Rock	2.49	<0.005	1.0	5.2	3.6	29	<0.1	2.1	2.5	391	1.42	<0.5	1.1	14.0	22	<0.1	<0.1	<0.1	8	0.81
1540360	Rock Pulp	0.13	<0.005	2.4	24.4	2.5	43	0.2	23.2	9.9	398	2.37	4.5	1.4	1.0	42	0.1	0.3	<0.1	58	0.80
1540361	Rock	2.46	<0.005	1.1	7.3	4.2	28	<0.1	2.0	2.3	413	1.21	<0.5	<0.5	10.2	29	<0.1	<0.1	0.1	8	1.25
1540362	Rock	2.44	<0.005	1.1	10.3	4.9	38	<0.1	2.2	3.1	448	1.59	<0.5	0.6	9.1	29	0.1	0.1	0.1	16	1.59
1540363	Rock	2.78	<0.005	0.7	7.7	5.2	38	<0.1	2.0	3.4	435	1.56	<0.5	1.4	9.6	35	<0.1	0.1	<0.1	13	1.12
1540364	Rock	3.57	<0.005	1.0	10.1	3.9	39	<0.1	2.8	3.2	398	1.71	<0.5	<0.5	8.8	30	<0.1	0.2	<0.1	14	0.77
1540365	Rock	2.59	<0.005	1.0	5.3	4.4	35	<0.1	2.4	3.2	423	1.43	<0.5	0.9	11.3	11	<0.1	0.2	<0.1	9	0.38
1540366	Rock	2.48	<0.005	0.9	9.5	3.2	30	<0.1	2.3	2.7	360	1.52	<0.5	<0.5	13.5	20	<0.1	<0.1	<0.1	9	0.58
1540367	Rock	3.81	<0.005	0.9	10.8	3.6	37	<0.1	2.6	3.0	366	1.35	<0.5	<0.5	10.1	36	<0.1	0.1	<0.1	12	0.83
1540368	Rock	3.16	<0.005	1.0	8.7	3.0	28	<0.1	1.9	2.0	270	1.16	<0.5	0.6	12.9	29	<0.1	<0.1	<0.1	7	0.80
1540369	Rock	2.32	<0.005	0.9	8.9	2.9	24	<0.1	2.2	2.2	293	1.13	<0.5	1.1	12.4	25	<0.1	<0.1	<0.1	7	0.83
1540370	Rock	2.97	0.005	1.1	10.5	2.7	29	<0.1	2.3	2.8	375	1.43	<0.5	2.2	10.6	23	<0.1	<0.1	0.1	9	0.61
1540371	Rock	2.90	<0.005	1.0	13.0	3.0	29	<0.1	2.2	2.5	372	1.32	<0.5	2.2	10.5	26	<0.1	<0.1	<0.1	8	0.70
1540372	Rock	2.89	<0.005	1.1	9.6	3.4	30	<0.1	2.1	2.5	422	1.38	<0.5	3.2	10.6	28	<0.1	0.1	<0.1	8	0.97
1540373	Rock	3.79	0.032	1.2	8.1	3.6	36	<0.1	2.2	3.2	510	1.47	<0.5	20.8	11.1	37	<0.1	<0.1	<0.1	9	1.27
1540374	Rock	3.40	0.147	1.4	7.2	3.2	29	0.2	2.5	4.2	403	1.43	<0.5	128.3	10.8	38	<0.1	0.1	0.2	8	1.08
1540375	Rock	4.38	0.038	0.9	9.0	3.5	42	<0.1	2.2	4.8	548	1.90	<0.5	30.7	9.8	58	<0.1	0.1	<0.1	21	1.70
1540376	Rock	4.26	0.007	1.0	5.1	3.0	38	<0.1	2.6	4.7	557	2.01	<0.5	2.3	10.3	53	<0.1	0.2	<0.1	21	1.56
1540377	Rock	4.06	<0.005	1.6	6.8	3.8	42	<0.1	2.4	4.7	611	1.90	<0.5	1.1	9.8	76	<0.1	0.2	<0.1	19	2.04
1540378	Rock	4.11	<0.005	0.9	11.1	3.2	48	<0.1	1.8	4.4	561	1.92	<0.5	<0.5	8.8	42	<0.1	0.1	<0.1	20	1.29
1540379	Rock	3.19	0.072	1.4	5.3	2.7	38	<0.1	2.4	5.5	524	1.93	<0.5	60.6	10.2	36	<0.1	0.1	<0.1	17	1.15
1540380	Rock Pulp	0.09	5.111	8.1	196.1	23.6	76	0.8	14.7	11.1	577	4.17	11.2	4741.1	3.0	77	0.2	4.7	0.5	100	0.88



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Project: LOO
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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	AQ200 P %	AQ200 La ppm	AQ200 Cr ppm	AQ200 Mg %	AQ200 Ba ppm	AQ200 Ti %	AQ200 B ppm	AQ200 Al %	AQ200 Na %	AQ200 K %	AQ200 W ppm	AQ200 Hg ppm	AQ200 Sc ppm	AQ200 Ti ppm	AQ200 S %	AQ200 Ga ppm	AQ200 Se ppm	AQ200 Te ppm	
1540351	Rock	0.033	22	8	0.23	74	0.035	<20	0.73	0.046	0.28	0.5	<0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
1540352	Rock	0.029	25	7	0.24	113	0.063	<20	0.74	0.035	0.30	0.7	<0.01	3.1	0.1	<0.05	4	<0.5	<0.2
1540353	Rock	0.025	26	6	0.20	102	0.049	<20	0.76	0.042	0.30	0.9	<0.01	3.3	0.1	<0.05	4	<0.5	<0.2
1540354	Rock	0.022	28	5	0.18	76	0.059	<20	0.57	0.038	0.32	1.3	<0.01	2.5	0.1	<0.05	3	<0.5	<0.2
1540355	Rock	0.025	35	5	0.20	87	0.066	<20	0.73	0.048	0.36	0.7	<0.01	3.0	0.1	<0.05	3	<0.5	<0.2
1540356	Rock	0.027	30	4	0.19	89	0.064	<20	0.62	0.046	0.34	0.9	<0.01	3.2	0.1	<0.05	3	<0.5	<0.2
1540357	Rock	0.025	35	2	0.11	76	0.033	<20	0.43	0.023	0.20	0.6	<0.01	2.7	<0.1	<0.05	2	<0.5	<0.2
1540358	Rock	0.024	37	4	0.13	85	0.036	<20	0.54	0.037	0.24	0.6	0.01	2.9	0.1	<0.05	3	<0.5	<0.2
1540359	Rock	0.024	46	5	0.11	82	0.024	<20	0.73	0.019	0.23	0.6	<0.01	2.9	<0.1	<0.05	3	<0.5	<0.2
1540360	Rock Pulp	0.058	4	30	0.77	99	0.132	<20	1.52	0.076	0.13	12.9	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
1540361	Rock	0.022	28	3	0.11	82	0.019	<20	0.60	0.007	0.20	0.8	<0.01	2.8	<0.1	<0.05	2	<0.5	<0.2
1540362	Rock	0.043	30	4	0.16	102	0.021	<20	0.83	0.008	0.25	0.4	<0.01	2.9	<0.1	<0.05	3	<0.5	<0.2
1540363	Rock	0.032	26	4	0.24	76	0.033	<20	0.68	0.033	0.23	0.5	0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
1540364	Rock	0.031	25	7	0.29	73	0.034	<20	0.82	0.061	0.27	0.5	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
1540365	Rock	0.027	31	5	0.16	79	0.024	<20	0.67	0.013	0.22	0.8	<0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
1540366	Rock	0.026	32	6	0.19	68	0.026	<20	0.80	0.052	0.23	0.5	<0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
1540367	Rock	0.030	26	8	0.29	62	0.033	<20	0.64	0.051	0.23	1.0	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
1540368	Rock	0.018	28	6	0.12	56	0.018	<20	0.56	0.062	0.19	0.5	<0.01	1.6	<0.1	<0.05	2	<0.5	<0.2
1540369	Rock	0.019	30	5	0.15	50	0.012	<20	0.49	0.053	0.16	0.5	<0.01	1.6	<0.1	<0.05	2	<0.5	<0.2
1540370	Rock	0.024	25	7	0.24	65	0.030	<20	0.70	0.058	0.25	0.5	<0.01	2.1	0.1	<0.05	3	<0.5	<0.2
1540371	Rock	0.024	28	5	0.22	52	0.016	<20	0.59	0.041	0.17	0.5	<0.01	1.7	<0.1	<0.05	3	<0.5	<0.2
1540372	Rock	0.025	28	7	0.20	75	0.014	<20	0.68	0.047	0.21	0.4	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
1540373	Rock	0.028	30	5	0.31	155	0.014	<20	0.67	0.032	0.17	0.5	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
1540374	Rock	0.025	29	7	0.25	167	0.011	<20	0.70	0.058	0.21	0.3	<0.01	1.6	<0.1	<0.05	3	<0.5	0.3
1540375	Rock	0.035	28	6	0.40	76	0.048	<20	0.90	0.034	0.29	0.4	<0.01	3.2	0.1	<0.05	4	<0.5	<0.2
1540376	Rock	0.033	30	7	0.42	66	0.042	<20	0.99	0.046	0.31	0.3	<0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
1540377	Rock	0.034	29	6	0.36	85	0.029	<20	0.79	0.032	0.23	0.3	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
1540378	Rock	0.037	23	6	0.45	72	0.048	<20	0.94	0.036	0.28	0.4	<0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
1540379	Rock	0.031	29	7	0.45	72	0.031	<20	0.97	0.049	0.26	0.4	<0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
1540380	Rock Pulp	0.061	8	18	0.86	136	0.146	<20	1.72	0.180	0.23	5.0	0.15	2.8	<0.1	<0.05	5	<0.5	<0.2



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Project: LOO
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CERTIFICATE OF ANALYSIS

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Method	Analyte	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit	MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
1540381	Rock	4.51	0.019	1.4	12.0	3.4	46	<0.1	2.4	4.8	581	1.97	<0.5	11.2	10.2	53	<0.1	0.2	<0.1	21	1.54
1540382	Rock	4.18	0.231	2.1	16.1	4.3	45	0.2	2.2	4.7	542	1.93	0.6	208.6	9.9	32	<0.1	0.2	0.2	18	1.05
1540383	Rock	3.99	0.227	1.7	8.6	4.3	25	0.2	2.2	3.0	393	1.25	0.5	210.7	12.0	49	<0.1	0.1	0.1	5	1.42
1540384	Rock	4.76	0.018	1.4	11.9	3.4	31	<0.1	2.2	2.5	436	1.34	<0.5	18.1	11.2	50	<0.1	<0.1	<0.1	7	1.36
1540385	Rock	4.25	0.011	1.3	10.2	3.8	30	<0.1	2.2	2.5	484	1.35	<0.5	8.8	11.1	54	<0.1	0.1	<0.1	7	1.37
1540386	Rock	3.84	0.009	1.2	6.8	3.1	30	<0.1	2.2	2.7	411	1.48	<0.5	3.1	12.2	46	<0.1	0.1	<0.1	9	1.08
1540387	Rock	4.03	0.018	1.5	10.4	3.1	29	<0.1	2.3	3.1	413	1.38	<0.5	5.9	10.1	49	<0.1	<0.1	<0.1	11	1.13
1540388	Rock	3.71	0.005	1.4	13.8	2.7	30	<0.1	2.1	2.7	376	1.41	<0.5	1.8	11.1	34	<0.1	<0.1	<0.1	10	0.81
1540389	Rock	3.63	0.007	1.7	6.9	5.8	25	<0.1	2.5	2.4	326	1.24	<0.5	5.6	11.8	32	<0.1	0.2	0.1	8	0.95
1540390	Rock	4.33	0.006	2.0	7.1	2.2	29	<0.1	2.1	2.6	363	1.45	<0.5	5.3	11.4	27	<0.1	<0.1	<0.1	10	0.65
1540391	Rock	2.56	<0.005	1.5	10.9	3.2	31	<0.1	2.6	2.9	439	1.36	<0.5	3.2	10.4	31	<0.1	<0.1	<0.1	9	0.86
1540392	Rock	3.74	0.007	2.0	9.9	2.9	29	<0.1	2.1	2.9	403	1.48	<0.5	6.0	10.6	27	<0.1	<0.1	<0.1	10	0.67
1540393	Rock	4.05	<0.005	1.7	19.6	2.4	35	<0.1	2.0	3.5	405	1.62	<0.5	3.7	10.4	27	<0.1	0.1	<0.1	15	0.52
1540394	Rock	3.64	0.005	1.3	7.5	2.8	41	<0.1	2.5	4.6	497	1.99	<0.5	0.8	8.8	45	<0.1	0.1	<0.1	22	1.25
1540395	Rock	4.05	<0.005	2.2	10.4	4.3	49	<0.1	2.6	5.5	680	2.23	1.4	1.2	7.3	91	<0.1	0.2	<0.1	32	2.56
1540396	Rock	4.69	<0.005	1.9	13.6	3.2	42	<0.1	2.5	5.1	530	2.06	<0.5	4.5	9.3	60	<0.1	0.2	<0.1	25	1.44
1540397	Rock	3.59	0.010	1.4	11.9	2.9	51	<0.1	3.1	5.1	540	2.03	<0.5	5.7	9.4	38	<0.1	<0.1	<0.1	21	1.06
1540398	Rock	5.29	<0.005	1.8	8.0	2.4	43	<0.1	2.4	4.7	512	1.97	<0.5	1.8	9.8	37	<0.1	<0.1	<0.1	26	0.67
1540399	Rock	3.44	<0.005	1.5	9.9	2.8	51	<0.1	2.7	5.3	595	2.14	<0.5	<0.5	10.1	42	<0.1	<0.1	<0.1	30	0.81
1540400	Rock Pulp	0.13	<0.005	2.1	23.1	2.3	42	0.3	21.9	9.8	388	2.35	4.6	1.0	0.9	40	0.2	0.3	<0.1	57	0.80
1540401	Rock	3.89	<0.005	2.2	11.2	3.5	49	<0.1	3.2	6.1	606	2.38	<0.5	0.7	10.7	50	<0.1	<0.1	<0.1	36	1.10
1540402	Rock	4.08	<0.005	2.3	9.3	3.7	53	<0.1	2.5	5.1	548	2.03	<0.5	<0.5	10.4	45	0.1	<0.1	<0.1	28	0.94
1540403	Rock	3.89	<0.005	2.9	13.8	4.8	61	<0.1	2.3	6.3	736	2.47	<0.5	<0.5	9.1	61	<0.1	<0.1	<0.1	35	1.36
1540404	Rock	4.60	<0.005	3.2	12.8	3.3	53	<0.1	2.9	5.4	575	2.14	<0.5	<0.5	9.1	49	<0.1	0.1	<0.1	28	0.96
1540405	Rock	4.40	<0.005	2.2	13.0	2.8	37	<0.1	2.6	4.4	488	1.93	<0.5	<0.5	9.7	52	<0.1	0.1	<0.1	27	0.96
1540406	Rock	4.06	<0.005	1.6	8.4	2.2	45	<0.1	3.4	5.1	549	2.02	0.9	1.1	9.8	34	<0.1	<0.1	<0.1	26	0.75
1540407	Rock	4.40	<0.005	1.8	12.0	3.0	49	<0.1	3.4	4.9	577	2.05	0.5	1.2	11.3	43	<0.1	<0.1	<0.1	24	1.10
1540408	Rock	3.67	<0.005	1.5	10.4	4.2	47	<0.1	3.0	5.1	538	1.99	<0.5	<0.5	9.0	45	<0.1	<0.1	<0.1	25	0.90
1540409	Rock	4.62	<0.005	1.4	8.9	45.3	44	<0.1	2.8	5.1	523	2.07	<0.5	<0.5	9.0	56	<0.1	<0.1	<0.1	27	0.68
1540410	Rock	4.63	<0.005	12.9	7.4	18.8	47	<0.1	2.0	5.2	555	2.00	1.0	<0.5	9.1	61	<0.1	<0.1	<0.1	26	0.97



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Method Analyte Unit	MDL	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	
1540381	Rock	0.038	28	7	0.40	302	0.023	<20	0.84	0.032	0.20	0.4	<0.01	3.1	<0.1	<0.05	4	<0.5	<0.2	
1540382	Rock	0.033	27	6	0.37	76	0.020	<20	0.93	0.040	0.23	0.2	<0.01	3.5	<0.1	<0.05	4	<0.5	<0.2	
1540383	Rock	0.030	34	6	0.09	174	0.004	<20	0.46	0.041	0.19	0.3	0.02	1.7	<0.1	<0.05	2	<0.5	0.4	
1540384	Rock	0.025	30	8	0.14	71	0.009	<20	0.62	0.054	0.19	0.3	<0.01	2.3	<0.1	<0.05	3	<0.5	<0.2	
1540385	Rock	0.024	30	7	0.16	35	0.009	<20	0.51	0.039	0.16	0.4	<0.01	2.5	<0.1	<0.05	2	<0.5	<0.2	
1540386	Rock	0.024	33	8	0.21	49	0.026	<20	0.75	0.057	0.23	0.4	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2	
1540387	Rock	0.030	26	8	0.25	61	0.029	<20	0.64	0.049	0.23	0.6	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2	
1540388	Rock	0.025	31	8	0.21	62	0.032	<20	0.67	0.063	0.24	0.6	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2	
1540389	Rock	0.023	29	7	0.20	47	0.021	<20	0.54	0.045	0.22	0.6	0.01	1.8	<0.1	<0.05	3	<0.5	<0.2	
1540390	Rock	0.022	30	9	0.24	52	0.039	<20	0.65	0.069	0.27	1.0	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2	
1540391	Rock	0.028	26	7	0.21	78	0.020	<20	0.64	0.039	0.22	0.7	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2	
1540392	Rock	0.025	29	9	0.22	149	0.034	<20	0.77	0.048	0.27	0.5	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2	
1540393	Rock	0.027	27	8	0.36	98	0.047	<20	0.74	0.042	0.27	0.7	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2	
1540394	Rock	0.033	24	9	0.45	60	0.033	<20	1.03	0.062	0.28	0.3	<0.01	3.0	<0.1	<0.05	5	<0.5	<0.2	
1540395	Rock	0.045	26	8	0.56	37	0.009	<20	0.96	0.032	0.14	0.3	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2	
1540396	Rock	0.035	26	10	0.46	56	0.028	<20	0.95	0.062	0.24	0.3	<0.01	3.1	<0.1	<0.05	5	<0.5	<0.2	
1540397	Rock	0.033	28	10	0.56	50	0.016	<20	0.94	0.058	0.18	0.1	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2	
1540398	Rock	0.030	25	12	0.47	101	0.095	<20	0.99	0.070	0.47	0.7	<0.01	2.9	0.1	<0.05	5	<0.5	<0.2	
1540399	Rock	0.033	28	9	0.64	132	0.117	<20	1.16	0.071	0.57	1.0	<0.01	3.4	0.1	<0.05	6	<0.5	<0.2	
1540400	Rock Pulp	0.057	4	29	0.76	95	0.123	<20	1.52	0.077	0.13	13.3	0.01	4.4	0.1	<0.05	5	<0.5	<0.2	
1540401	Rock	0.042	27	10	0.65	119	0.113	<20	1.36	0.077	0.57	0.5	<0.01	4.3	0.2	<0.05	7	<0.5	<0.2	
1540402	Rock	0.032	28	9	0.52	80	0.085	<20	1.00	0.058	0.43	0.5	<0.01	3.2	0.1	<0.05	5	<0.5	<0.2	
1540403	Rock	0.049	25	9	0.64	132	0.112	<20	1.29	0.069	0.56	0.6	<0.01	4.0	0.2	<0.05	6	<0.5	<0.2	
1540404	Rock	0.040	24	10	0.54	96	0.084	<20	1.05	0.066	0.44	1.1	<0.01	2.8	0.2	<0.05	5	<0.5	<0.2	
1540405	Rock	0.029	25	11	0.45	100	0.061	<20	1.01	0.068	0.38	0.9	<0.01	2.3	0.1	0.09	5	<0.5	<0.2	
1540406	Rock	0.031	25	13	0.68	89	0.074	<20	1.08	0.046	0.42	0.6	<0.01	2.9	<0.1	0.05	6	<0.5	<0.2	
1540407	Rock	0.031	32	13	0.65	92	0.058	<20	1.08	0.080	0.34	0.3	<0.01	3.0	<0.1	<0.05	6	<0.5	<0.2	
1540408	Rock	0.034	26	10	0.54	85	0.075	<20	0.99	0.049	0.40	0.5	<0.01	2.7	0.1	<0.05	6	<0.5	<0.2	
1540409	Rock	0.031	26	9	0.56	92	0.086	<20	1.19	0.059	0.48	0.4	<0.01	2.8	0.1	<0.05	6	<0.5	<0.2	
1540410	Rock	0.035	27	8	0.63	79	0.070	<20	1.15	0.045	0.41	0.4	0.02	2.7	0.1	<0.05	7	<0.5	<0.2	



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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540411	Rock	4.49	<0.005	4.6	9.0	7.2	41	<0.1	2.6	4.6	458	1.86	<0.5	<0.5	10.4	58	<0.1	<0.1	<0.1	22	0.81
1540412	Rock	4.14	<0.005	2.5	8.0	4.2	43	<0.1	3.2	5.2	522	2.04	<0.5	<0.5	9.1	52	<0.1	<0.1	<0.1	24	0.66
1540413	Rock	4.07	<0.005	2.1	11.9	3.3	45	<0.1	2.8	5.4	524	2.06	<0.5	<0.5	8.5	50	<0.1	<0.1	<0.1	26	0.63
1540414	Rock	2.96	<0.005	1.8	10.5	2.8	45	<0.1	3.6	6.6	538	2.24	<0.5	<0.5	8.1	68	<0.1	<0.1	<0.1	30	0.88
1540415	Rock	0.94	0.040	2.0	16.4	3.5	34	<0.1	7.8	3.9	467	1.68	1.2	35.3	12.9	12	<0.1	0.2	<0.1	20	0.27
1540416	Rock	5.56	0.014	1.8	21.9	2.6	42	<0.1	7.7	4.5	488	1.79	<0.5	10.3	12.5	9	<0.1	<0.1	0.2	17	0.22
1540417	Rock	6.11	0.010	1.1	10.4	2.6	38	<0.1	3.3	4.4	563	1.60	<0.5	6.7	10.9	18	<0.1	<0.1	<0.1	17	0.79
1540418	Rock	3.36	<0.005	0.9	11.4	3.3	41	<0.1	3.0	4.6	573	1.88	<0.5	2.2	10.6	21	<0.1	<0.1	0.1	20	0.70
1540419	Rock	2.83	0.010	1.2	17.0	2.8	34	<0.1	2.9	5.0	531	1.85	0.5	6.7	10.3	15	<0.1	<0.1	<0.1	17	0.53



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1540411	Rock	0.028	27	11	0.46	81	0.080	<20	1.03	0.058	0.43	0.8	0.01	2.2	0.2	<0.05	5	<0.5	<0.2
1540412	Rock	0.032	21	14	0.50	110	0.109	<20	1.07	0.078	0.52	1.4	<0.01	2.5	0.2	<0.05	5	<0.5	<0.2
1540413	Rock	0.033	23	13	0.50	102	0.122	<20	1.05	0.065	0.57	1.5	<0.01	2.1	0.2	<0.05	5	<0.5	<0.2
1540414	Rock	0.040	21	12	0.65	111	0.112	<20	1.26	0.064	0.52	1.2	<0.01	2.1	0.2	<0.05	6	<0.5	<0.2
1540415	Rock	0.024	33	8	0.28	114	0.061	<20	0.79	0.029	0.28	0.4	0.02	3.0	0.1	<0.05	3	<0.5	<0.2
1540416	Rock	0.028	30	11	0.43	84	0.051	<20	0.85	0.063	0.31	0.8	0.02	2.4	0.1	<0.05	4	<0.5	<0.2
1540417	Rock	0.029	28	6	0.39	113	0.062	<20	0.78	0.043	0.37	1.1	0.01	2.1	0.1	<0.05	4	<0.5	<0.2
1540418	Rock	0.030	27	7	0.37	141	0.082	<20	0.90	0.067	0.50	0.6	<0.01	2.5	0.2	<0.05	4	<0.5	<0.2
1540419	Rock	0.032	26	6	0.47	97	0.063	<20	0.86	0.057	0.34	0.8	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2



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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
1540324	Rock	3.16	0.193	1.0	10.4	3.7	40	0.2	2.2	5.9	557	2.01	0.9	218.2	8.5	37	<0.1	0.2	0.1	20	1.14
REP 1540324	QC			1.1	10.5	3.8	40	0.2	2.2	5.8	580	2.02	0.8	194.9	8.8	36	<0.1	0.2	0.1	20	1.15
1540333	Rock	3.18	0.012	1.2	7.9	1.7	42	<0.1	2.5	3.8	569	1.80	<0.5	9.2	12.3	33	<0.1	<0.1	<0.1	19	1.01
REP 1540333	QC		0.010																		
1540357	Rock	2.33	<0.005	1.1	4.3	4.8	30	<0.1	1.2	2.0	454	1.22	<0.5	<0.5	11.6	29	<0.1	<0.1	<0.1	9	0.93
REP 1540357	QC			1.1	4.3	4.7	31	<0.1	1.0	2.0	458	1.22	<0.5	0.5	11.2	28	<0.1	<0.1	<0.1	9	0.94
1540382	Rock	4.18	0.231	2.1	16.1	4.3	45	0.2	2.2	4.7	542	1.93	0.6	208.6	9.9	32	<0.1	0.2	0.2	18	1.05
REP 1540382	QC		0.219																		
1540392	Rock	3.74	0.007	2.0	9.9	2.9	29	<0.1	2.1	2.9	403	1.48	<0.5	6.0	10.6	27	<0.1	<0.1	<0.1	10	0.67
REP 1540392	QC			2.0	10.6	2.9	29	<0.1	1.9	3.0	407	1.44	<0.5	6.8	10.4	27	<0.1	<0.1	<0.1	10	0.65
1540415	Rock	0.94	0.040	2.0	16.4	3.5	34	<0.1	7.8	3.9	467	1.68	1.2	35.3	12.9	12	<0.1	0.2	<0.1	20	0.27
REP 1540415	QC		0.043																		
Core Reject Duplicates																					
1540342	Rock	2.93	<0.005	2.1	10.5	2.9	32	<0.1	2.2	2.9	433	1.37	<0.5	4.4	11.9	31	<0.1	<0.1	0.2	10	1.07
DUP 1540342	QC		<0.005	2.3	9.9	2.8	32	<0.1	2.1	2.6	447	1.40	<0.5	4.6	12.5	33	<0.1	<0.1	0.2	10	1.08
1540376	Rock	4.26	0.007	1.0	5.1	3.0	38	<0.1	2.6	4.7	557	2.01	<0.5	2.3	10.3	53	<0.1	0.2	<0.1	21	1.56
DUP 1540376	QC		<0.005	1.0	5.3	3.0	40	<0.1	2.2	4.6	548	1.98	<0.5	4.8	10.4	53	<0.1	0.2	<0.1	20	1.54
1540410	Rock	4.63	<0.005	12.9	7.4	18.8	47	<0.1	2.0	5.2	555	2.00	1.0	<0.5	9.1	61	<0.1	<0.1	<0.1	26	0.97
DUP 1540410	QC		<0.005	12.0	7.6	18.4	60	<0.1	2.2	5.2	551	1.95	0.9	<0.5	8.9	60	<0.1	0.8	<0.1	25	0.99
Reference Materials																					
STD DS10	Standard			14.3	150.3	157.4	363	1.7	74.7	12.9	889	2.70	43.9	94.8	7.9	73	2.6	9.3	13.9	42	1.08
STD DS10	Standard			13.6	152.7	152.0	360	1.8	72.4	12.5	874	2.71	46.3	52.6	7.9	73	2.8	9.1	13.2	42	1.06
STD DS10	Standard			13.5	160.4	152.6	372	2.2	79.5	13.3	892	2.77	44.0	249.6	6.8	65	2.6	8.1	11.6	43	1.07
STD OREAS45EA	Standard			1.3	674.4	14.0	30	0.2	356.1	49.0	390	20.86	10.8	51.6	10.5	4	<0.1	0.4	0.3	295	0.03
STD OREAS45EA	Standard			1.5	685.6	14.5	29	0.2	384.6	51.2	394	20.22	11.0	42.4	10.8	4	<0.1	0.4	0.3	314	0.03
STD OREAS45EA	Standard			1.5	676.4	12.4	27	0.2	383.2	50.5	388	19.94	10.1	46.2	8.7	3	<0.1	0.3	0.2	309	0.03
STD OXC145	Standard		0.213																		
STD OXC145	Standard		0.214																		



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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																			
1540324	Rock	0.033	27	5	0.16	387	0.014	<20	0.54	0.036	0.17	0.3	0.02	4.5	<0.1	<0.05	2	<0.5	0.2
REP 1540324	QC	0.035	29	5	0.16	403	0.015	<20	0.54	0.036	0.17	0.2	0.02	4.6	<0.1	<0.05	3	<0.5	0.2
1540333	Rock	0.029	33	8	0.55	80	0.077	<20	0.94	0.076	0.47	0.7	<0.01	4.0	0.1	<0.05	5	<0.5	<0.2
REP 1540333	QC																		
1540357	Rock	0.025	35	2	0.11	76	0.033	<20	0.43	0.023	0.20	0.6	<0.01	2.7	<0.1	<0.05	2	<0.5	<0.2
REP 1540357	QC	0.024	34	2	0.11	74	0.033	<20	0.44	0.023	0.21	0.7	<0.01	2.8	<0.1	<0.05	2	<0.5	<0.2
1540382	Rock	0.033	27	6	0.37	76	0.020	<20	0.93	0.040	0.23	0.2	<0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
REP 1540382	QC																		
1540392	Rock	0.025	29	9	0.22	149	0.034	<20	0.77	0.048	0.27	0.5	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
REP 1540392	QC	0.025	29	9	0.22	149	0.034	<20	0.76	0.048	0.27	0.5	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
1540415	Rock	0.024	33	8	0.28	114	0.061	<20	0.79	0.029	0.28	0.4	0.02	3.0	0.1	<0.05	3	<0.5	<0.2
REP 1540415	QC																		
Core Reject Duplicates																			
1540342	Rock	0.024	28	9	0.29	49	0.036	<20	0.63	0.062	0.28	0.8	<0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
DUP 1540342	QC	0.026	31	9	0.30	53	0.039	<20	0.66	0.066	0.29	0.8	<0.01	3.0	<0.1	<0.05	3	<0.5	<0.2
1540376	Rock	0.033	30	7	0.42	66	0.042	<20	0.99	0.046	0.31	0.3	<0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
DUP 1540376	QC	0.033	31	7	0.41	68	0.041	<20	1.01	0.050	0.31	0.3	<0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
1540410	Rock	0.035	27	8	0.63	79	0.070	<20	1.15	0.045	0.41	0.4	0.02	2.7	0.1	<0.05	7	<0.5	<0.2
DUP 1540410	QC	0.036	27	8	0.62	77	0.069	<20	1.13	0.041	0.40	0.4	0.02	2.7	0.1	<0.05	6	<0.5	<0.2
Reference Materials																			
STD DS10	Standard	0.073	18	54	0.76	422	0.080	<20	1.02	0.069	0.33	3.4	0.38	2.6	5.3	0.29	4	2.1	5.7
STD DS10	Standard	0.078	19	54	0.76	434	0.084	<20	1.02	0.068	0.33	3.1	0.26	2.9	5.3	0.28	4	1.5	5.1
STD DS10	Standard	0.075	16	57	0.77	398	0.079	<20	1.03	0.069	0.33	3.2	0.29	2.9	4.9	0.28	4	2.3	5.1
STD OREAS45EA	Standard	0.027	7	722	0.09	142	0.097	<20	3.17	0.018	0.05	<0.1	0.01	75.4	<0.1	<0.05	12	0.5	<0.2
STD OREAS45EA	Standard	0.030	7	752	0.10	144	0.103	<20	3.13	0.021	0.05	<0.1	<0.01	79.5	<0.1	<0.05	12	<0.5	<0.2
STD OREAS45EA	Standard	0.026	6	843	0.09	126	0.090	<20	3.13	0.020	0.05	<0.1	<0.01	73.8	<0.1	<0.05	12	1.2	<0.2
STD OXC145	Standard																		
STD OXC145	Standard																		



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QUALITY CONTROL REPORT

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		WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
STD OXH122	Standard		1.162																		
STD OXH122	Standard		1.233																		
STD OXN117	Standard		7.571																		
STD OXN117	Standard		7.648																		
STD OXN117 Expected			7.679																		
STD OXC145 Expected			0.212																		
STD OXH122 Expected			1.247																		
STD DS10 Expected				13.6	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625
STD OREAS45EA Expected				1.6	709	14.3	31.4	0.26	381	52	400	23.51	10.3	53	10.7	3.5	0.03	0.32	0.26	303	0.036
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
Prep Wash																					
ROCK-WHI	Prep Blank		<0.005	1.0	5.1	1.6	29	<0.1	2.6	4.3	424	1.95	0.7	1.3	2.6	26	<0.1	<0.1	<0.1	23	0.59
ROCK-WHI	Prep Blank		<0.005	1.0	4.2	1.5	30	<0.1	1.7	3.9	413	1.75	0.7	1.0	2.4	25	<0.1	<0.1	<0.1	22	0.62



Bureau Veritas Commodities Canada Ltd.
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Project: LOO
Report Date: July 08, 2017

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Part: 2 of 2

QUALITY CONTROL REPORT

WHI17000135.1

		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200		
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
STD OXH122	Standard																			
STD OXH122	Standard																			
STD OXN117	Standard																			
STD OXN117	Standard																			
STD OXN117 Expected																				
STD OXC145 Expected																				
STD OXH122 Expected																				
STD DS10 Expected		0.0765	17.5	54.6	0.775	412	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3	2.3	5.01	
STD OREAS45EA Expected		0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053			78	0.072	0.036	12.4	0.78	0.07	
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
Prep Wash																				
ROCK-WHI	Prep Blank	0.038	6	5	0.39	69	0.082	<20	0.93	0.107	0.12	0.2	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2	
ROCK-WHI	Prep Blank	0.039	5	3	0.39	81	0.086	<20	0.95	0.108	0.12	0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2	



BUREAU VERITAS MINERAL LABORATORIES
Canada

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Bureau Veritas Commodities Canada Ltd.
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Client: **White Gold Corp.**
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Dawson Yukon Y0B 1G0 Canada

Submitted By: Jodie Gibson
Receiving Lab: Canada-Whitehorse
Received: June 27, 2017
Report Date: July 18, 2017
Page: 1 of 5

CERTIFICATE OF ANALYSIS

WHI17000166.1

CLIENT JOB INFORMATION

Project: LOO
Shipment ID: LOO-20170624-001-ROCK
P.O. Number
Number of Samples: 118

SAMPLE DISPOSAL

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

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

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

CC: Isaac Fage
Shawn Ryan

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	113	Crush, split and pulverize 250 g rock to 200 mesh			WHI
SLBHP	5	Sort, label and box pulps			WHI
FA430	118	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	118	Environmental disposal charge-Fire assay lead waste			VAN
AQ200	118	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	118	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



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



Bureau Veritas Commodities Canada Ltd.

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Client: **White Gold Corp.**
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Project: LOO
Report Date: July 18, 2017

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CERTIFICATE OF ANALYSIS

WHI17000166.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540420	Rock Pulp	0.11	0.432	6.6	295.5	16.4	50	1.0	112.0	14.5	485	2.81	169.1	567.3	3.6	78	0.3	1.7	0.1	64	1.75
1540421	Rock	2.89	<0.005	0.9	7.2	2.8	36	<0.1	1.5	4.4	578	1.74	0.5	2.3	11.2	22	<0.1	<0.1	<0.1	19	0.58
1540422	Rock	3.38	<0.005	0.7	3.9	2.2	36	<0.1	1.4	4.3	525	1.70	<0.5	1.4	11.2	22	<0.1	<0.1	<0.1	20	0.56
1540423	Rock	3.42	<0.005	0.7	5.6	1.4	39	<0.1	1.7	5.0	460	1.99	<0.5	1.3	9.5	18	<0.1	<0.1	<0.1	32	0.42
1540424	Rock	3.33	<0.005	0.5	4.3	1.5	50	<0.1	1.1	4.8	513	1.90	<0.5	0.8	11.4	20	<0.1	<0.1	<0.1	26	0.80
1540425	Rock	2.98	<0.005	0.8	5.8	2.3	42	<0.1	1.5	4.8	568	1.85	<0.5	1.8	10.4	25	<0.1	<0.1	<0.1	23	0.95
1540426	Rock	3.06	<0.005	0.7	5.9	2.2	43	<0.1	1.5	4.9	581	1.93	<0.5	2.6	9.8	26	<0.1	<0.1	<0.1	23	0.85
1540427	Rock	3.37	0.016	0.7	5.0	2.6	47	<0.1	1.7	4.9	614	1.95	0.5	3.0	8.6	38	<0.1	0.1	<0.1	21	1.60
1540428	Rock	3.26	0.013	0.6	8.8	2.9	39	<0.1	1.3	4.0	576	1.62	<0.5	8.5	8.9	28	<0.1	0.2	<0.1	17	1.56
1540429	Rock	3.38	0.176	1.3	6.0	2.5	25	0.1	1.5	2.2	368	1.01	<0.5	173.6	14.3	18	<0.1	0.2	0.1	8	1.17
1540430	Rock	3.02	0.022	1.2	7.2	2.5	21	<0.1	1.1	1.9	294	0.91	<0.5	21.5	15.8	24	<0.1	<0.1	<0.1	5	1.11
1540431	Rock	2.93	0.034	1.5	3.8	2.7	17	<0.1	1.1	2.0	265	0.85	<0.5	62.3	14.4	25	<0.1	<0.1	<0.1	5	0.98
1540432	Rock	3.42	0.062	0.9	5.6	2.5	23	<0.1	1.6	2.5	330	0.99	<0.5	60.6	15.7	18	<0.1	<0.1	<0.1	8	0.73
1540433	Rock	3.67	0.007	0.9	5.4	1.9	58	<0.1	1.5	7.6	863	2.60	<0.5	5.6	9.0	29	<0.1	0.1	<0.1	37	1.02
1540434	Rock	3.28	<0.005	1.6	5.9	2.1	53	<0.1	1.1	7.9	978	2.88	<0.5	2.9	6.7	40	<0.1	0.1	<0.1	46	1.37
1540435	Rock	3.94	<0.005	1.9	5.4	1.7	37	<0.1	1.5	5.7	707	2.14	<0.5	1.5	10.5	47	<0.1	<0.1	<0.1	31	1.21
1540436	Rock	3.05	<0.005	7.5	5.8	1.6	29	<0.1	1.3	3.3	404	1.34	<0.5	1.8	13.6	38	<0.1	<0.1	<0.1	14	1.17
1540437	Rock	2.53	<0.005	6.4	12.5	2.3	33	<0.1	1.2	3.3	469	1.44	<0.5	2.6	12.3	51	<0.1	<0.1	<0.1	15	1.67
1540438	Rock	2.65	<0.005	2.0	6.4	2.7	46	<0.1	1.3	4.5	622	1.81	<0.5	1.6	12.7	29	<0.1	<0.1	<0.1	22	0.97
1540439	Rock	3.28	<0.005	1.4	5.7	1.5	37	<0.1	1.2	4.5	456	1.96	<0.5	0.7	11.0	26	<0.1	<0.1	<0.1	25	0.73
1540440	Rock Pulp	0.13	<0.005	2.6	28.8	2.7	47	0.3	23.4	11.2	403	2.39	5.3	0.6	1.1	44	0.2	0.3	<0.1	59	0.83
1540441	Rock	3.52	<0.005	1.9	17.3	0.9	44	<0.1	1.9	5.2	513	2.09	<0.5	0.7	12.0	25	<0.1	<0.1	<0.1	27	0.54
1540442	Rock	3.78	<0.005	1.5	4.9	1.1	39	<0.1	1.3	4.4	394	1.80	0.6	<0.5	11.1	42	<0.1	<0.1	<0.1	23	0.81
1540443	Rock	3.54	<0.005	1.4	4.3	1.2	53	<0.1	1.3	4.6	576	2.00	<0.5	<0.5	12.6	27	<0.1	<0.1	<0.1	26	1.06
1540444	Rock	3.35	<0.005	1.3	5.4	1.8	35	<0.1	1.5	4.4	523	1.75	<0.5	0.8	11.2	29	<0.1	0.1	<0.1	21	0.75
1540445	Rock	2.67	<0.005	2.5	3.7	4.3	42	<0.1	1.3	5.1	765	2.06	<0.5	0.5	11.3	87	<0.1	0.2	<0.1	22	2.47
1540446	Rock	2.84	<0.005	1.5	5.1	3.8	32	<0.1	1.6	3.1	381	1.47	<0.5	<0.5	12.4	64	<0.1	<0.1	<0.1	16	1.15
1540447	Rock	3.36	0.009	2.8	22.4	7.2	40	<0.1	1.5	2.9	546	1.32	<0.5	3.9	13.0	105	0.3	<0.1	0.4	9	2.47
1540448	Rock	2.84	<0.005	2.3	23.9	10.9	52	0.1	1.1	2.6	465	1.29	<0.5	<0.5	12.8	69	0.4	<0.1	1.4	8	1.35
1540449	Rock	2.80	<0.005	2.2	24.3	4.6	37	<0.1	1.2	3.1	527	1.32	0.6	2.0	13.8	58	0.1	<0.1	0.4	11	1.29



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Project: LOO
Report Date: July 18, 2017

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CERTIFICATE OF ANALYSIS

WHI17000166.1

Method Analyte	Unit	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
MDL		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
1540420	Rock Pulp	0.035	9	105	1.40	139	0.108	<20	2.65	0.302	0.21	1.0	0.03	3.0	<0.1	0.10	6	<0.5	<0.2	
1540421	Rock	0.028	35	3	0.43	118	0.090	<20	0.86	0.050	0.43	0.8	<0.01	3.8	<0.1	<0.05	4	<0.5	<0.2	
1540422	Rock	0.031	32	4	0.41	122	0.105	<20	0.87	0.048	0.47	0.7	<0.01	4.6	0.1	<0.05	4	<0.5	<0.2	
1540423	Rock	0.042	24	4	0.63	181	0.130	<20	1.06	0.058	0.61	0.8	<0.01	5.2	0.1	<0.05	6	<0.5	<0.2	
1540424	Rock	0.032	29	3	0.60	157	0.118	<20	1.04	0.050	0.56	0.7	<0.01	5.6	0.2	<0.05	5	<0.5	<0.2	
1540425	Rock	0.045	28	4	0.45	124	0.085	<20	0.94	0.045	0.44	0.5	<0.01	4.6	0.1	<0.05	4	<0.5	<0.2	
1540426	Rock	0.038	30	4	0.50	125	0.082	<20	1.03	0.044	0.43	0.5	<0.01	5.0	0.1	<0.05	5	<0.5	<0.2	
1540427	Rock	0.041	27	4	0.52	80	0.021	<20	1.03	0.037	0.21	0.2	<0.01	4.7	<0.1	<0.05	6	<0.5	<0.2	
1540428	Rock	0.045	28	3	0.41	66	0.006	<20	0.85	0.027	0.16	0.2	<0.01	4.2	<0.1	<0.05	4	<0.5	<0.2	
1540429	Rock	0.026	33	4	0.21	52	0.004	<20	0.56	0.027	0.16	0.3	0.02	2.7	<0.1	<0.05	2	<0.5	<0.2	
1540430	Rock	0.021	31	3	0.19	40	0.006	<20	0.53	0.030	0.17	0.3	<0.01	1.6	<0.1	<0.05	2	<0.5	<0.2	
1540431	Rock	0.020	28	4	0.13	125	0.009	<20	0.39	0.032	0.16	0.8	<0.01	1.3	<0.1	<0.05	2	<0.5	<0.2	
1540432	Rock	0.021	31	4	0.22	70	0.020	<20	0.54	0.031	0.18	0.6	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2	
1540433	Rock	0.044	22	4	0.80	138	0.101	<20	1.44	0.037	0.54	0.3	<0.01	5.5	0.1	<0.05	6	<0.5	<0.2	
1540434	Rock	0.054	20	3	0.89	242	0.135	<20	1.60	0.025	0.72	0.2	<0.01	7.5	0.2	<0.05	7	<0.5	<0.2	
1540435	Rock	0.046	27	5	0.56	141	0.133	<20	1.11	0.040	0.66	0.5	<0.01	5.0	0.2	<0.05	5	<0.5	<0.2	
1540436	Rock	0.024	35	5	0.25	121	0.066	<20	0.61	0.038	0.36	0.9	<0.01	2.4	0.1	<0.05	3	<0.5	<0.2	
1540437	Rock	0.030	31	4	0.28	135	0.064	<20	0.69	0.027	0.37	0.8	<0.01	3.0	0.1	<0.05	3	<0.5	<0.2	
1540438	Rock	0.035	35	4	0.35	137	0.097	<20	0.87	0.034	0.50	0.7	<0.01	3.9	0.2	<0.05	4	<0.5	<0.2	
1540439	Rock	0.037	30	5	0.53	119	0.120	<20	0.91	0.050	0.60	1.0	<0.01	5.7	0.1	<0.05	5	<0.5	<0.2	
1540440	Rock Pulp	0.068	5	29	0.79	116	0.142	<20	1.56	0.079	0.13	13.3	<0.01	5.1	<0.1	<0.05	5	<0.5	<0.2	
1540441	Rock	0.038	32	7	0.54	135	0.144	<20	0.97	0.054	0.68	1.1	<0.01	5.4	0.2	<0.05	5	<0.5	<0.2	
1540442	Rock	0.033	32	5	0.38	94	0.088	<20	0.69	0.054	0.41	0.9	<0.01	5.7	0.1	<0.05	4	<0.5	<0.2	
1540443	Rock	0.035	31	6	0.66	121	0.122	<20	1.00	0.058	0.58	1.0	<0.01	6.0	0.2	<0.05	5	<0.5	<0.2	
1540444	Rock	0.036	30	5	0.38	99	0.093	<20	0.84	0.042	0.45	0.8	<0.01	4.1	0.1	<0.05	4	<0.5	<0.2	
1540445	Rock	0.036	33	5	0.31	246	0.084	<20	0.77	0.029	0.43	0.6	<0.01	5.0	0.1	<0.05	4	<0.5	<0.2	
1540446	Rock	0.033	34	6	0.23	92	0.066	<20	0.71	0.039	0.37	0.6	<0.01	4.4	0.1	<0.05	3	<0.5	<0.2	
1540447	Rock	0.026	34	5	0.15	1281	0.026	<20	0.65	0.026	0.24	0.5	<0.01	2.9	<0.1	<0.05	3	<0.5	<0.2	
1540448	Rock	0.024	33	6	0.16	133	0.036	<20	0.54	0.032	0.27	0.8	<0.01	2.7	0.2	<0.05	2	<0.5	<0.2	
1540449	Rock	0.028	33	5	0.18	135	0.032	<20	0.64	0.040	0.24	0.6	<0.01	3.1	<0.1	<0.05	3	<0.5	<0.2	



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Project: LOO
Report Date: July 18, 2017

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CERTIFICATE OF ANALYSIS

WHI17000166.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540450	Rock	3.48	<0.005	2.0	4.8	3.9	30	<0.1	2.8	3.0	497	1.47	<0.5	1.3	12.3	37	<0.1	<0.1	<0.1	12	0.87
1540451	Rock	3.60	<0.005	1.8	7.6	3.2	25	<0.1	1.3	2.2	389	1.25	<0.5	<0.5	14.3	50	<0.1	<0.1	<0.1	10	0.80
1540452	Rock	3.50	<0.005	1.9	8.8	5.3	41	<0.1	1.7	3.1	479	1.49	<0.5	<0.5	12.3	60	<0.1	<0.1	<0.1	15	1.06
1540453	Rock	2.79	<0.005	1.6	3.2	4.1	45	<0.1	3.2	3.7	534	1.57	1.0	<0.5	12.1	37	<0.1	<0.1	<0.1	14	0.92
1540454	Rock	3.37	<0.005	2.4	6.0	4.8	34	<0.1	1.3	2.9	436	1.31	1.6	<0.5	11.7	47	<0.1	<0.1	<0.1	11	0.98
1540455	Rock	4.03	<0.005	2.1	5.0	3.8	39	<0.1	1.6	3.4	505	1.60	1.3	<0.5	11.5	45	<0.1	<0.1	<0.1	15	0.84
1540456	Rock	3.49	<0.005	2.6	6.1	4.7	48	<0.1	2.2	4.1	599	1.87	0.8	<0.5	10.7	55	<0.1	<0.1	0.1	19	1.22
1540457	Rock	3.21	<0.005	1.9	5.1	10.6	45	<0.1	1.4	2.6	435	1.35	1.0	<0.5	9.9	39	0.1	<0.1	<0.1	11	0.84
1540458	Rock	3.14	<0.005	2.0	3.6	4.7	35	<0.1	1.3	2.7	470	1.44	<0.5	<0.5	11.1	65	<0.1	<0.1	<0.1	11	1.33
1540459	Rock	3.30	<0.005	2.0	4.1	5.8	34	<0.1	2.3	2.7	498	1.49	0.7	<0.5	11.8	70	<0.1	<0.1	<0.1	12	1.43
1540460	Rock Pulp	0.09	5.030	7.8	192.0	23.6	76	0.8	15.1	11.1	544	4.04	11.5	4526.4	2.7	66	0.2	3.4	0.5	98	0.87
1540461	Rock	3.39	<0.005	1.1	5.0	3.4	30	<0.1	1.1	2.6	415	1.32	0.7	<0.5	11.2	58	<0.1	<0.1	<0.1	11	1.15
1540462	Rock	3.68	<0.005	1.8	5.8	3.7	32	<0.1	1.9	3.1	387	1.43	0.9	<0.5	13.3	57	<0.1	<0.1	<0.1	13	0.95
1540463	Rock	2.97	<0.005	2.3	5.1	5.1	41	<0.1	2.5	3.8	544	1.73	0.5	<0.5	9.2	70	<0.1	<0.1	<0.1	19	1.15
1540464	Rock	3.89	<0.005	2.4	5.3	3.2	30	<0.1	1.5	2.6	375	1.38	0.5	1.0	10.6	42	<0.1	<0.1	<0.1	12	0.74
1540465	Rock	3.63	<0.005	2.0	6.3	3.7	33	<0.1	1.4	3.0	460	1.48	<0.5	<0.5	10.4	51	<0.1	<0.1	<0.1	13	1.08
1540466	Rock	3.00	<0.005	1.8	2.3	3.1	33	<0.1	2.5	2.9	453	1.59	<0.5	1.6	12.0	43	<0.1	<0.1	<0.1	13	0.87
1540467	Rock	3.32	<0.005	1.9	2.2	2.7	32	<0.1	1.5	2.7	403	1.34	<0.5	<0.5	11.3	39	<0.1	<0.1	<0.1	12	1.04
1540468	Rock	3.62	<0.005	5.2	6.8	3.4	46	<0.1	2.0	5.4	574	2.08	0.6	1.0	8.7	64	<0.1	<0.1	<0.1	24	1.26
1540469	Rock	3.44	<0.005	3.6	4.9	3.2	43	<0.1	2.7	5.4	525	2.04	0.8	0.8	9.0	49	<0.1	<0.1	<0.1	23	1.09
1540470	Rock	3.62	<0.005	3.3	4.3	3.1	41	<0.1	1.8	5.4	574	2.01	0.6	<0.5	9.6	48	<0.1	<0.1	<0.1	24	1.15
1540471	Rock	3.30	<0.005	2.0	3.0	2.6	37	<0.1	1.6	4.9	581	1.99	<0.5	<0.5	9.7	51	<0.1	<0.1	<0.1	28	1.27
1540472	Rock	3.63	<0.005	2.7	3.5	2.6	40	<0.1	3.1	5.5	539	2.06	<0.5	0.7	9.5	40	<0.1	<0.1	<0.1	27	0.91
1540473	Rock	3.81	<0.005	1.8	4.1	2.0	35	<0.1	1.5	4.5	490	1.76	0.6	<0.5	9.9	31	<0.1	<0.1	<0.1	22	0.76
1540474	Rock	3.43	<0.005	26.8	8.4	3.0	34	<0.1	1.4	3.3	392	1.40	<0.5	0.8	13.9	24	<0.1	<0.1	0.2	16	0.42
1540475	Rock	3.73	<0.005	25.8	6.9	3.8	34	<0.1	2.6	3.7	393	1.50	<0.5	<0.5	11.6	40	<0.1	<0.1	0.2	17	0.99
1540476	Rock	3.10	<0.005	3.4	5.3	3.9	39	<0.1	1.5	5.3	517	1.90	<0.5	<0.5	9.0	67	<0.1	<0.1	<0.1	25	1.77
1540477	Rock	2.86	<0.005	2.2	4.4	4.3	51	<0.1	1.8	6.4	600	2.17	<0.5	<0.5	8.8	68	<0.1	<0.1	<0.1	31	1.85
1540478	Rock	3.45	<0.005	2.1	4.6	3.0	39	<0.1	2.7	4.9	484	1.95	<0.5	<0.5	9.7	50	<0.1	<0.1	<0.1	23	1.35
1540479	Rock	3.61	<0.005	1.7	5.7	2.5	39	<0.1	1.7	5.1	525	1.90	0.9	<0.5	7.2	73	<0.1	<0.1	<0.1	23	1.45



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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
MDL		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
1540450	Rock	0.028	31	11	0.24	91	0.037	<20	0.63	0.042	0.25	0.5	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2	
1540451	Rock	0.021	34	7	0.24	67	0.036	<20	0.65	0.074	0.26	0.9	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2	
1540452	Rock	0.036	30	8	0.36	66	0.056	<20	0.74	0.049	0.32	1.3	<0.01	3.1	0.1	<0.05	4	<0.5	<0.2	
1540453	Rock	0.027	28	10	0.47	62	0.055	<20	0.81	0.076	0.34	0.8	<0.01	3.4	0.1	<0.05	4	<0.5	<0.2	
1540454	Rock	0.026	29	7	0.22	56	0.033	<20	0.50	0.042	0.21	1.1	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2	
1540455	Rock	0.030	28	8	0.30	69	0.055	<20	0.72	0.069	0.33	0.8	<0.01	3.1	0.1	<0.05	4	<0.5	<0.2	
1540456	Rock	0.028	26	9	0.41	153	0.076	<20	0.81	0.044	0.42	1.0	<0.01	3.5	0.1	<0.05	4	<0.5	<0.2	
1540457	Rock	0.025	25	7	0.21	106	0.058	<20	0.64	0.060	0.35	1.0	<0.01	2.7	0.1	<0.05	4	<0.5	<0.2	
1540458	Rock	0.028	29	5	0.22	100	0.050	<20	0.67	0.035	0.31	0.6	<0.01	3.1	0.1	<0.05	3	<0.5	<0.2	
1540459	Rock	0.030	28	9	0.24	80	0.050	<20	0.67	0.048	0.30	0.8	<0.01	3.0	0.1	<0.05	3	<0.5	<0.2	
1540460	Rock Pulp	0.068	7	18	0.85	133	0.133	<20	1.68	0.178	0.22	5.1	0.15	3.1	<0.1	<0.05	5	<0.5	<0.2	
1540461	Rock	0.025	28	6	0.25	54	0.053	<20	0.62	0.032	0.29	0.8	<0.01	3.3	0.1	<0.05	3	<0.5	<0.2	
1540462	Rock	0.031	40	8	0.27	67	0.058	<20	0.74	0.056	0.35	1.0	<0.01	3.6	0.1	<0.05	4	<0.5	<0.2	
1540463	Rock	0.033	25	10	0.33	85	0.069	<20	0.77	0.048	0.40	0.9	<0.01	3.4	0.2	<0.05	4	<0.5	<0.2	
1540464	Rock	0.028	27	8	0.24	66	0.054	<20	0.62	0.055	0.29	1.2	<0.01	3.2	0.1	<0.05	4	<0.5	<0.2	
1540465	Rock	0.029	26	8	0.32	111	0.051	<20	0.61	0.048	0.28	1.2	<0.01	2.8	0.1	<0.05	4	<0.5	<0.2	
1540466	Rock	0.028	31	9	0.33	100	0.056	<20	0.80	0.062	0.36	0.8	<0.01	3.2	0.1	<0.05	4	<0.5	<0.2	
1540467	Rock	0.025	29	8	0.30	76	0.060	<20	0.68	0.044	0.33	0.8	<0.01	2.9	0.1	<0.05	4	<0.5	<0.2	
1540468	Rock	0.038	25	9	0.55	110	0.069	<20	1.02	0.058	0.42	0.7	<0.01	3.5	0.1	<0.05	5	<0.5	<0.2	
1540469	Rock	0.040	25	11	0.52	82	0.067	<20	0.97	0.048	0.39	0.6	<0.01	3.8	0.1	<0.05	5	<0.5	<0.2	
1540470	Rock	0.035	27	9	0.50	91	0.060	<20	1.00	0.067	0.36	0.5	<0.01	3.7	<0.1	<0.05	5	<0.5	<0.2	
1540471	Rock	0.035	25	8	0.56	89	0.100	<20	1.00	0.047	0.55	0.8	<0.01	4.2	0.1	<0.05	5	<0.5	<0.2	
1540472	Rock	0.032	25	15	0.48	108	0.108	<20	1.02	0.068	0.60	1.1	<0.01	3.7	0.2	<0.05	5	<0.5	<0.2	
1540473	Rock	0.034	25	8	0.46	77	0.090	<20	0.87	0.051	0.46	0.8	<0.01	3.4	0.2	<0.05	4	<0.5	<0.2	
1540474	Rock	0.022	25	9	0.30	61	0.073	<20	0.77	0.074	0.43	1.7	<0.01	2.3	0.2	<0.05	4	<0.5	<0.2	
1540475	Rock	0.025	24	11	0.29	45	0.040	<20	0.72	0.042	0.28	0.9	<0.01	2.4	0.1	<0.05	4	<0.5	<0.2	
1540476	Rock	0.035	27	8	0.43	84	0.075	<20	1.11	0.031	0.42	0.4	<0.01	3.9	0.1	<0.05	6	<0.5	<0.2	
1540477	Rock	0.050	27	8	0.56	140	0.082	<20	1.11	0.035	0.43	0.4	<0.01	3.6	0.1	<0.05	6	<0.5	<0.2	
1540478	Rock	0.036	25	10	0.43	90	0.082	<20	0.99	0.055	0.43	0.5	<0.01	3.1	0.1	<0.05	5	<0.5	<0.2	
1540479	Rock	0.037	22	7	0.47	86	0.058	<20	1.04	0.053	0.37	0.5	<0.01	2.7	0.1	<0.05	5	<0.5	<0.2	



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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540480	Rock Pulp	0.12	<0.005	2.3	24.8	2.4	46	0.3	24.0	10.9	396	2.41	4.4	<0.5	1.0	37	0.2	0.3	<0.1	58	0.81
1540481	Rock	3.58	<0.005	1.5	5.3	3.0	57	<0.1	1.6	5.4	489	1.77	1.8	<0.5	8.7	107	<0.1	0.9	<0.1	22	1.69
1540482	Rock	3.37	<0.005	1.5	7.0	3.2	33	<0.1	1.5	4.2	451	1.64	0.6	<0.5	7.9	85	<0.1	<0.1	<0.1	20	1.25
1540483	Rock	3.38	<0.005	1.7	5.8	2.5	38	<0.1	2.6	5.7	482	1.95	<0.5	<0.5	8.6	58	<0.1	<0.1	<0.1	27	0.87
1540484	Rock	3.69	<0.005	1.9	4.7	2.1	37	<0.1	2.0	5.2	473	1.91	<0.5	<0.5	8.7	55	<0.1	<0.1	<0.1	26	0.72
1540485	Rock	3.06	0.007	2.8	20.0	5.3	45	<0.1	7.7	4.0	472	1.69	1.3	4.0	10.5	12	0.1	<0.1	0.7	16	0.18
1540486	Rock	5.39	0.018	1.0	12.0	3.3	36	<0.1	2.7	3.1	463	1.38	1.0	16.5	11.5	7	0.1	0.2	0.1	13	0.13
1540487	Rock	5.96	0.008	1.0	5.9	2.2	31	<0.1	3.6	3.2	398	1.42	<0.5	5.5	12.3	9	<0.1	<0.1	<0.1	13	0.12
1540488	Rock	4.59	<0.005	0.9	5.5	3.9	44	<0.1	2.6	3.3	534	1.49	<0.5	3.7	12.6	12	<0.1	<0.1	<0.1	14	0.15
1540489	Rock	3.94	<0.005	0.6	3.9	1.6	51	<0.1	3.0	3.4	684	1.55	<0.5	1.2	13.1	10	<0.1	<0.1	<0.1	20	0.18
1540490	Rock	5.34	<0.005	1.1	5.2	2.6	38	<0.1	4.4	2.8	457	1.53	<0.5	1.0	12.8	12	<0.1	<0.1	<0.1	16	0.14
1540491	Rock	4.47	0.009	0.8	6.4	3.8	46	<0.1	1.4	2.5	397	1.28	<0.5	2.0	8.7	15	<0.1	<0.1	<0.1	14	0.17
1540492	Rock	3.76	<0.005	0.8	6.7	4.7	48	<0.1	1.7	3.0	438	1.54	<0.5	0.6	11.3	15	<0.1	<0.1	<0.1	14	0.18
1540493	Rock	4.29	<0.005	1.3	9.6	10.7	90	<0.1	3.6	5.2	802	2.48	<0.5	1.1	9.3	13	0.1	<0.1	<0.1	25	0.23
1540494	Rock	1.63	<0.005	1.3	13.0	8.7	63	<0.1	1.8	3.9	548	1.83	<0.5	0.9	8.5	12	0.1	<0.1	<0.1	17	0.18
1540495	Rock	2.38	0.013	1.5	46.7	6.9	45	<0.1	5.4	3.0	422	1.39	<0.5	10.7	11.5	9	<0.1	<0.1	0.8	12	0.13
1540496	Rock	6.85	0.007	1.1	25.2	6.3	48	0.2	3.5	3.1	398	1.44	<0.5	5.8	11.3	14	0.2	<0.1	1.3	11	0.16
1540497	Rock	6.41	0.006	0.9	41.1	7.4	67	0.2	1.9	2.6	394	1.35	<0.5	3.8	11.1	11	0.1	<0.1	0.8	13	0.17
1540498	Rock	2.96	<0.005	0.7	74.1	5.8	53	0.2	1.3	2.7	382	1.31	<0.5	3.9	11.3	16	0.2	<0.1	0.8	12	0.27
1540499	Rock	3.59	<0.005	0.7	10.2	2.7	44	<0.1	2.1	2.9	396	1.35	<0.5	1.1	10.6	12	0.1	<0.1	0.1	12	0.20
1540500	Rock Pulp	0.09	0.837	6.7	277.4	14.8	50	0.8	106.6	15.5	440	2.80	170.9	635.3	3.3	76	0.3	1.5	0.1	65	1.73
1540501	Rock	4.82	<0.005	0.7	7.5	2.9	37	<0.1	1.2	2.7	427	1.32	<0.5	1.1	11.6	21	<0.1	<0.1	<0.1	11	0.37
1540502	Rock	2.74	<0.005	0.8	7.2	3.1	40	<0.1	4.2	4.1	367	1.35	0.7	<0.5	7.7	29	<0.1	0.1	0.1	17	0.28
1540503	Rock	6.34	<0.005	2.3	24.9	2.5	62	<0.1	5.9	7.3	557	2.06	0.6	<0.5	8.7	28	<0.1	<0.1	0.1	28	0.45
1540504	Rock	6.48	<0.005	1.1	18.7	2.1	51	<0.1	2.1	3.9	393	1.38	<0.5	<0.5	6.0	28	<0.1	<0.1	0.2	18	0.53
1540505	Rock	2.91	<0.005	1.4	13.9	2.7	73	<0.1	2.1	4.7	457	1.70	<0.5	1.0	7.8	24	<0.1	<0.1	<0.1	24	0.44
1540506	Rock	4.89	<0.005	1.4	10.2	1.8	52	<0.1	3.0	4.9	435	1.84	<0.5	0.5	7.9	28	<0.1	<0.1	<0.1	27	0.64
1540507	Rock	4.87	<0.005	0.6	4.6	1.7	38	<0.1	1.3	4.6	424	1.64	<0.5	<0.5	7.2	26	<0.1	<0.1	<0.1	23	0.57
1540508	Rock	4.48	<0.005	0.9	4.6	1.6	50	<0.1	2.0	4.0	361	1.49	<0.5	<0.5	5.6	31	<0.1	<0.1	<0.1	25	0.58
1540509	Rock	4.88	<0.005	1.5	9.0	2.5	44	<0.1	3.5	5.1	517	1.95	<0.5	<0.5	8.0	49	<0.1	<0.1	<0.1	28	1.26



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WHI17000166.1

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
1540480	Rock Pulp	0.065	4	30	0.79	96	0.124	<20	1.50	0.078	0.13	13.3	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
1540481	Rock	0.037	28	9	0.52	60	0.044	<20	1.14	0.026	0.38	0.5	<0.01	2.6	0.1	<0.05	6	<0.5	<0.2
1540482	Rock	0.027	24	8	0.44	77	0.060	<20	1.03	0.045	0.42	0.6	<0.01	2.2	0.1	<0.05	5	<0.5	<0.2
1540483	Rock	0.035	25	10	0.53	97	0.105	<20	1.06	0.046	0.56	1.0	<0.01	2.5	0.2	<0.05	5	<0.5	<0.2
1540484	Rock	0.033	21	11	0.49	94	0.113	<20	1.06	0.060	0.56	1.1	<0.01	2.5	0.2	<0.05	5	<0.5	<0.2
1540485	Rock	0.026	27	17	0.26	116	0.067	<20	0.81	0.058	0.39	1.0	<0.01	3.3	0.1	<0.05	4	<0.5	<0.2
1540486	Rock	0.027	32	6	0.19	122	0.051	<20	0.66	0.035	0.29	1.0	<0.01	3.4	0.1	<0.05	3	<0.5	<0.2
1540487	Rock	0.025	35	8	0.26	100	0.066	<20	0.71	0.049	0.35	1.7	<0.01	3.1	0.1	<0.05	4	<0.5	<0.2
1540488	Rock	0.026	29	7	0.33	142	0.060	<20	0.77	0.064	0.36	0.7	<0.01	3.2	0.1	<0.05	4	<0.5	<0.2
1540489	Rock	0.030	28	11	0.63	108	0.082	<20	0.97	0.074	0.45	0.5	<0.01	4.4	0.2	<0.05	5	<0.5	<0.2
1540490	Rock	0.024	28	9	0.33	102	0.066	<20	0.81	0.065	0.36	0.9	<0.01	3.1	0.1	<0.05	4	<0.5	<0.2
1540491	Rock	0.025	23	4	0.29	88	0.051	<20	0.69	0.054	0.30	1.0	<0.01	2.1	0.1	<0.05	4	<0.5	<0.2
1540492	Rock	0.026	26	4	0.33	98	0.061	<20	0.84	0.082	0.38	0.9	<0.01	2.6	0.1	<0.05	4	<0.5	<0.2
1540493	Rock	0.042	31	7	0.65	168	0.100	<20	1.24	0.046	0.54	0.5	<0.01	4.8	0.2	<0.05	7	<0.5	<0.2
1540494	Rock	0.033	24	5	0.43	122	0.050	<20	0.91	0.055	0.30	0.3	<0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
1540495	Rock	0.025	34	6	0.21	98	0.051	<20	0.69	0.038	0.27	0.9	0.01	2.8	0.1	<0.05	4	<0.5	<0.2
1540496	Rock	0.024	27	7	0.24	97	0.053	<20	0.69	0.071	0.34	1.6	<0.01	2.3	0.1	<0.05	3	<0.5	<0.2
1540497	Rock	0.024	25	5	0.24	90	0.052	<20	0.62	0.051	0.30	1.5	<0.01	2.1	0.1	<0.05	4	<0.5	<0.2
1540498	Rock	0.025	29	4	0.25	88	0.072	<20	0.66	0.078	0.34	7.8	<0.01	2.7	0.1	<0.05	3	<0.5	<0.2
1540499	Rock	0.024	25	4	0.26	83	0.060	<20	0.64	0.059	0.33	1.8	<0.01	2.4	0.1	<0.05	3	<0.5	<0.2
1540500	Rock Pulp	0.033	8	100	1.43	122	0.097	<20	2.68	0.317	0.21	1.1	0.03	3.0	<0.1	0.11	5	<0.5	<0.2
1540501	Rock	0.022	27	4	0.26	78	0.056	<20	0.70	0.090	0.31	1.2	<0.01	2.4	0.1	<0.05	3	<0.5	<0.2
1540502	Rock	0.028	22	5	0.32	88	0.018	<20	0.90	0.039	0.19	0.3	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
1540503	Rock	0.042	25	12	0.65	107	0.051	<20	1.16	0.052	0.36	0.4	<0.01	3.2	0.1	<0.05	5	<0.5	<0.2
1540504	Rock	0.027	15	5	0.38	89	0.058	<20	0.81	0.059	0.36	1.2	<0.01	1.9	0.1	<0.05	4	<0.5	<0.2
1540505	Rock	0.033	19	4	0.46	138	0.088	<20	0.97	0.067	0.53	0.9	<0.01	2.7	0.2	<0.05	5	<0.5	<0.2
1540506	Rock	0.040	21	6	0.46	146	0.097	<20	0.99	0.064	0.58	0.7	<0.01	2.5	0.2	<0.05	5	<0.5	<0.2
1540507	Rock	0.030	20	4	0.42	110	0.095	<20	0.97	0.074	0.57	0.9	<0.01	2.3	0.2	<0.05	4	<0.5	<0.2
1540508	Rock	0.030	17	6	0.46	98	0.086	<20	0.92	0.066	0.53	0.8	<0.01	2.0	0.2	<0.05	5	<0.5	<0.2
1540509	Rock	0.032	23	7	0.46	250	0.107	<20	1.09	0.066	0.62	0.8	<0.01	3.0	0.2	<0.05	5	<0.5	<0.2



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Project: LOO
Report Date: July 18, 2017

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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540510	Rock	4.66	<0.005	1.4	5.7	2.8	49	<0.1	1.4	5.1	512	1.89	<0.5	<0.5	9.4	36	<0.1	<0.1	0.2	27	1.16
1540511	Rock	4.81	<0.005	1.0	10.7	1.8	56	<0.1	3.1	4.6	364	1.74	<0.5	<0.5	6.0	32	<0.1	<0.1	<0.1	30	0.51
1540512	Rock	4.34	<0.005	0.8	6.7	1.9	46	<0.1	2.1	4.9	402	1.74	<0.5	<0.5	8.4	37	<0.1	<0.1	<0.1	30	0.63
1540513	Rock	4.49	<0.005	0.8	6.9	2.2	43	<0.1	1.4	5.5	500	2.05	<0.5	<0.5	8.3	36	<0.1	<0.1	<0.1	31	0.80
1540514	Rock	4.57	<0.005	1.0	7.4	1.9	39	<0.1	2.7	5.2	464	1.87	<0.5	<0.5	9.4	34	<0.1	<0.1	<0.1	22	0.73
1540515	Rock	4.09	0.014	0.8	7.4	2.1	40	<0.1	1.4	4.8	430	1.72	<0.5	0.6	9.9	37	<0.1	<0.1	<0.1	20	0.86
1540516	Rock	4.21	0.013	1.2	9.2	2.0	48	<0.1	1.6	4.0	395	1.58	<0.5	8.0	8.0	32	<0.1	<0.1	<0.1	24	0.83
1540517	Rock	4.74	<0.005	1.4	6.0	2.8	51	<0.1	2.5	3.4	340	1.50	<0.5	<0.5	5.2	48	<0.1	<0.1	<0.1	26	1.27
1540518	Rock	3.74	<0.005	2.0	7.7	3.2	50	<0.1	1.5	4.0	417	1.69	<0.5	<0.5	7.1	51	<0.1	<0.1	<0.1	25	1.31
1540519	Rock	4.12	0.009	2.4	27.5	4.3	21	<0.1	1.0	2.7	353	1.24	<0.5	5.1	8.3	60	<0.1	0.2	0.1	12	2.19
1540520	Rock	0.16	<0.005	0.4	1.2	4.4	19	0.1	2.6	0.5	101	0.17	2.6	1.4	0.2	276	0.3	1.3	<0.1	17	20.65
1540521	Rock	3.15	0.016	4.1	26.0	6.8	35	<0.1	1.4	3.8	565	1.56	0.5	12.5	7.1	69	<0.1	<0.1	0.1	16	3.81
1540522	Rock	3.98	0.006	3.7	18.3	9.0	52	<0.1	2.3	6.5	704	2.64	<0.5	55.1	7.6	56	<0.1	0.1	0.2	40	4.21
1540523	Rock	2.97	0.009	3.3	62.7	6.3	50	<0.1	1.6	5.9	688	2.22	0.6	6.8	9.5	42	<0.1	<0.1	1.3	20	1.73
1540524	Rock	3.47	0.131	1.9	33.9	5.1	34	<0.1	2.3	4.4	386	1.58	<0.5	216.8	8.9	50	<0.1	<0.1	0.5	11	2.27
1540525	Rock	3.83	0.132	1.9	18.0	4.5	31	<0.1	0.9	4.5	451	1.57	<0.5	115.4	10.4	48	<0.1	0.1	0.2	13	2.37
1540526	Rock	4.00	0.006	3.0	5.6	4.1	34	<0.1	1.0	4.3	540	1.75	0.8	3.6	10.1	44	<0.1	0.1	0.2	20	1.98
1540527	Rock	3.99	<0.005	3.8	6.3	4.2	34	<0.1	2.2	4.9	517	2.00	0.9	2.1	10.3	61	<0.1	0.1	0.2	21	2.04
1540528	Rock	4.43	<0.005	0.9	4.4	5.3	37	<0.1	1.2	4.4	484	1.76	<0.5	<0.5	10.9	64	<0.1	0.1	<0.1	19	2.20
1540529	Rock	3.77	<0.005	1.6	58.0	5.3	49	<0.1	1.2	5.7	586	2.27	<0.5	1.0	10.2	53	<0.1	0.1	0.3	32	2.24
1540530	Rock	3.75	<0.005	2.8	13.8	4.5	37	<0.1	2.2	3.8	501	1.71	0.7	0.7	10.0	59	<0.1	<0.1	0.1	15	2.39
1540531	Rock	3.87	<0.005	1.4	3.2	3.7	31	<0.1	1.1	2.3	360	1.17	<0.5	<0.5	9.7	43	<0.1	<0.1	<0.1	12	1.58
1540532	Rock	3.70	<0.005	1.3	2.8	4.5	31	<0.1	0.8	2.2	440	1.12	1.4	<0.5	9.0	67	<0.1	<0.1	<0.1	11	2.62
1540533	Rock	2.74	<0.005	1.1	8.1	5.2	38	<0.1	4.4	4.9	525	2.00	<0.5	<0.5	8.4	15	<0.1	0.1	0.2	27	0.55
1540534	Rock	4.01	<0.005	0.3	4.2	5.4	28	<0.1	1.4	3.5	419	1.48	<0.5	<0.5	6.1	61	<0.1	0.1	<0.1	23	2.70
1540535	Rock	4.53	<0.005	0.4	2.5	4.7	36	<0.1	1.2	4.3	505	1.71	0.5	<0.5	9.6	73	<0.1	<0.1	<0.1	24	3.04
1540536	Rock	2.73	<0.005	0.7	3.3	5.7	43	<0.1	2.1	5.0	578	1.95	<0.5	<0.5	10.0	82	<0.1	<0.1	<0.1	24	3.60
1540537	Rock	2.85	<0.005	1.6	13.5	6.1	51	<0.1	1.4	3.7	529	1.50	<0.5	<0.5	6.8	50	0.2	<0.1	0.3	21	3.38



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Project: LOO
Report Date: July 18, 2017

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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	AQ200 P %	AQ200 La ppm	AQ200 Cr ppm	AQ200 Mg %	AQ200 Ba ppm	AQ200 Ti %	AQ200 B ppm	AQ200 Al %	AQ200 Na %	AQ200 K %	AQ200 W ppm	AQ200 Hg ppm	AQ200 Sc ppm	AQ200 Ti ppm	AQ200 S %	AQ200 Ga ppm	AQ200 Se ppm	AQ200 Te ppm	
																			0.001
1540510	Rock	0.034	29	4	0.47	101	0.089	<20	1.06	0.048	0.56	0.4	<0.01	3.2	0.2	<0.05	5	<0.5	<0.2
1540511	Rock	0.036	17	7	0.46	118	0.093	<20	0.98	0.075	0.57	0.7	<0.01	2.2	0.2	<0.05	5	<0.5	<0.2
1540512	Rock	0.035	22	5	0.47	120	0.090	<20	1.06	0.088	0.58	0.6	<0.01	2.7	0.2	<0.05	5	<0.5	<0.2
1540513	Rock	0.039	27	3	0.54	120	0.112	<20	1.12	0.055	0.63	0.6	<0.01	2.8	0.2	<0.05	5	<0.5	<0.2
1540514	Rock	0.036	24	6	0.43	91	0.070	<20	0.97	0.066	0.42	0.6	<0.01	2.3	0.2	<0.05	5	<0.5	<0.2
1540515	Rock	0.032	32	4	0.41	61	0.040	<20	0.85	0.045	0.29	0.4	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
1540516	Rock	0.032	25	4	0.44	82	0.053	<20	0.92	0.074	0.39	0.5	<0.01	2.8	0.1	<0.05	5	<0.5	<0.2
1540517	Rock	0.036	18	6	0.37	61	0.035	<20	0.77	0.061	0.28	0.3	<0.01	2.5	0.1	<0.05	5	<0.5	<0.2
1540518	Rock	0.032	22	5	0.37	80	0.068	<20	0.88	0.061	0.43	0.5	<0.01	3.3	0.1	<0.05	5	<0.5	<0.2
1540519	Rock	0.031	25	3	0.10	72	0.013	<20	0.51	0.031	0.21	0.3	<0.01	2.8	<0.1	<0.05	2	<0.5	<0.2
1540520	Rock	0.018	1	3	12.22	18	0.002	<20	0.10	0.002	0.02	0.2	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
1540521	Rock	0.034	21	4	0.09	103	0.005	<20	0.42	0.003	0.13	0.5	<0.01	3.5	<0.1	<0.05	1	<0.5	<0.2
1540522	Rock	0.057	25	9	0.12	226	0.005	<20	0.73	0.003	0.15	0.2	0.01	7.5	<0.1	<0.05	2	<0.5	<0.2
1540523	Rock	0.038	25	5	0.05	124	0.003	<20	0.48	0.004	0.08	0.3	0.05	4.5	<0.1	<0.05	1	<0.5	<0.2
1540524	Rock	0.034	24	6	0.10	314	0.002	<20	0.58	0.021	0.15	0.2	0.05	2.3	<0.1	<0.05	1	<0.5	0.2
1540525	Rock	0.038	27	3	0.07	114	0.002	<20	0.50	0.007	0.18	0.2	0.01	3.3	<0.1	<0.05	1	<0.5	<0.2
1540526	Rock	0.033	27	3	0.09	79	0.014	<20	0.66	0.016	0.21	0.2	<0.01	4.8	<0.1	<0.05	2	<0.5	<0.2
1540527	Rock	0.035	29	6	0.12	67	0.015	<20	0.58	0.025	0.21	0.3	<0.01	4.3	<0.1	<0.05	2	<0.5	<0.2
1540528	Rock	0.030	27	4	0.24	55	0.043	<20	0.82	0.027	0.32	0.4	<0.01	3.7	<0.1	<0.05	3	<0.5	<0.2
1540529	Rock	0.050	27	4	0.32	81	0.069	<20	0.94	0.006	0.44	0.5	<0.01	4.8	0.2	<0.05	4	<0.5	<0.2
1540530	Rock	0.027	27	6	0.16	82	0.045	<20	0.81	0.004	0.30	0.5	<0.01	3.3	0.1	<0.05	3	<0.5	<0.2
1540531	Rock	0.019	20	5	0.19	62	0.051	<20	0.72	0.004	0.31	0.6	<0.01	2.7	0.1	<0.05	3	<0.5	<0.2
1540532	Rock	0.021	19	4	0.16	64	0.040	<20	0.78	0.005	0.28	0.4	<0.01	2.9	0.1	<0.05	3	<0.5	<0.2
1540533	Rock	0.036	31	6	0.36	110	0.082	<20	1.09	0.010	0.47	0.8	<0.01	4.5	0.2	<0.05	5	<0.5	<0.2
1540534	Rock	0.034	19	3	0.28	94	0.061	<20	1.08	0.004	0.42	0.6	<0.01	4.0	0.1	<0.05	4	<0.5	<0.2
1540535	Rock	0.034	26	2	0.30	101	0.067	<20	0.91	0.005	0.43	0.7	<0.01	4.9	0.1	<0.05	4	<0.5	<0.2
1540536	Rock	0.034	28	4	0.25	127	0.059	<20	0.98	0.009	0.39	0.3	<0.01	4.6	0.1	<0.05	4	<0.5	<0.2
1540537	Rock	0.029	20	3	0.19	103	0.045	<20	0.77	0.003	0.31	0.4	<0.01	3.5	0.1	<0.05	3	<0.5	<0.2



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QUALITY CONTROL REPORT

WHI17000166.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm		
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
1540421	Rock	2.89	<0.005	0.9	7.2	2.8	36	<0.1	1.5	4.4	578	1.74	0.5	2.3	11.2	22	<0.1	<0.1	<0.1	19	0.58
REP 1540421	QC			1.0	7.0	2.9	37	<0.1	1.6	4.8	604	1.74	0.7	2.8	11.9	24	<0.1	0.1	<0.1	19	0.58
1540437	Rock	2.53	<0.005	6.4	12.5	2.3	33	<0.1	1.2	3.3	469	1.44	<0.5	2.6	12.3	51	<0.1	<0.1	<0.1	15	1.67
REP 1540437	QC		<0.005																		
1540454	Rock	3.37	<0.005	2.4	6.0	4.8	34	<0.1	1.3	2.9	436	1.31	1.6	<0.5	11.7	47	<0.1	<0.1	<0.1	11	0.98
REP 1540454	QC			2.4	6.2	4.7	35	<0.1	1.3	2.8	423	1.33	1.5	<0.5	11.6	46	<0.1	<0.1	<0.1	11	0.97
1540489	Rock	3.94	<0.005	0.6	3.9	1.6	51	<0.1	3.0	3.4	684	1.55	<0.5	1.2	13.1	10	<0.1	<0.1	<0.1	20	0.18
REP 1540489	QC			0.8	3.9	1.6	51	<0.1	3.1	3.4	675	1.59	<0.5	1.0	14.0	11	<0.1	<0.1	<0.1	20	0.18
1540505	Rock	2.91	<0.005	1.4	13.9	2.7	73	<0.1	2.1	4.7	457	1.70	<0.5	1.0	7.8	24	<0.1	<0.1	<0.1	24	0.44
REP 1540505	QC		<0.005																		
1540534	Rock	4.01	<0.005	0.3	4.2	5.4	28	<0.1	1.4	3.5	419	1.48	<0.5	<0.5	6.1	61	<0.1	0.1	<0.1	23	2.70
REP 1540534	QC		<0.005																		
Core Reject Duplicates																					
1540445	Rock	2.67	<0.005	2.5	3.7	4.3	42	<0.1	1.3	5.1	765	2.06	<0.5	0.5	11.3	87	<0.1	0.2	<0.1	22	2.47
DUP 1540445	QC		<0.005	2.4	4.1	4.2	40	<0.1	1.3	4.9	859	2.06	<0.5	0.8	10.4	85	<0.1	0.1	<0.1	23	2.51
1540479	Rock	3.61	<0.005	1.7	5.7	2.5	39	<0.1	1.7	5.1	525	1.90	0.9	<0.5	7.2	73	<0.1	<0.1	<0.1	23	1.45
DUP 1540479	QC		<0.005	1.8	5.8	2.5	41	<0.1	1.6	5.2	517	1.88	0.9	<0.5	8.0	73	<0.1	<0.1	<0.1	22	1.50
1540513	Rock	4.49	<0.005	0.8	6.9	2.2	43	<0.1	1.4	5.5	500	2.05	<0.5	<0.5	8.3	36	<0.1	<0.1	<0.1	31	0.80
DUP 1540513	QC		<0.005	0.9	7.3	2.2	44	<0.1	1.7	5.9	516	2.06	<0.5	<0.5	8.7	39	<0.1	<0.1	<0.1	32	0.84
Reference Materials																					
STD DS10	Standard			13.5	177.5	156.1	383	1.8	72.8	12.4	857	2.74	49.2	75.9	8.8	78	3.0	9.1	14.5	43	1.07
STD DS10	Standard			13.7	157.5	145.4	375	2.1	75.2	13.8	840	2.79	45.9	67.1	7.1	65	2.9	7.9	12.2	44	1.08
STD DS10	Standard			13.2	155.5	145.0	358	2.6	75.2	13.6	898	2.75	44.6	65.5	7.1	61	2.6	7.8	12.2	43	1.07
STD DS10	Standard			14.5	154.6	154.0	368	1.8	78.4	13.4	923	2.76	46.7	122.2	8.3	65	2.9	8.2	12.5	43	1.07
STD OREAS45EA	Standard			1.4	697.3	15.0	32	0.3	392.2	49.7	395	20.69	11.4	50.0	10.9	4	<0.1	0.3	0.3	314	0.03
STD OREAS45EA	Standard			1.6	682.7	13.3	31	0.3	368.2	50.8	403	21.85	10.7	56.4	8.9	4	<0.1	0.3	0.2	312	0.03
STD OREAS45EA	Standard			1.5	694.2	12.9	31	0.2	361.7	53.0	384	21.99	10.4	52.3	8.8	3	<0.1	0.3	0.2	300	0.03
STD OREAS45EA	Standard			1.6	699.4	13.3	31	0.2	375.0	55.0	397	22.64	11.5	53.5	9.3	4	<0.1	0.3	0.2	311	0.03



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Project: LOO
Report Date: July 18, 2017

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QUALITY CONTROL REPORT

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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																			
1540421	Rock	0.028	35	3	0.43	118	0.090	<20	0.86	0.050	0.43	0.8	<0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
REP 1540421	QC	0.031	37	3	0.42	121	0.095	<20	0.86	0.050	0.43	0.8	<0.01	3.6	0.1	<0.05	4	<0.5	<0.2
1540437	Rock	0.030	31	4	0.28	135	0.064	<20	0.69	0.027	0.37	0.8	<0.01	3.0	0.1	<0.05	3	<0.5	<0.2
REP 1540437	QC																		
1540454	Rock	0.026	29	7	0.22	56	0.033	<20	0.50	0.042	0.21	1.1	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
REP 1540454	QC	0.024	28	7	0.22	55	0.033	<20	0.51	0.042	0.21	1.1	<0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
1540489	Rock	0.030	28	11	0.63	108	0.082	<20	0.97	0.074	0.45	0.5	<0.01	4.4	0.2	<0.05	5	<0.5	<0.2
REP 1540489	QC	0.034	31	12	0.64	117	0.088	<20	0.99	0.075	0.46	0.7	<0.01	4.6	0.1	<0.05	5	<0.5	<0.2
1540505	Rock	0.033	19	4	0.46	138	0.088	<20	0.97	0.067	0.53	0.9	<0.01	2.7	0.2	<0.05	5	<0.5	<0.2
REP 1540505	QC																		
1540534	Rock	0.034	19	3	0.28	94	0.061	<20	1.08	0.004	0.42	0.6	<0.01	4.0	0.1	<0.05	4	<0.5	<0.2
REP 1540534	QC																		
Core Reject Duplicates																			
1540445	Rock	0.036	33	5	0.31	246	0.084	<20	0.77	0.029	0.43	0.6	<0.01	5.0	0.1	<0.05	4	<0.5	<0.2
DUP 1540445	QC	0.039	31	5	0.31	241	0.083	<20	0.79	0.030	0.44	0.5	<0.01	5.2	0.1	<0.05	4	<0.5	<0.2
1540479	Rock	0.037	22	7	0.47	86	0.058	<20	1.04	0.053	0.37	0.5	<0.01	2.7	0.1	<0.05	5	<0.5	<0.2
DUP 1540479	QC	0.035	23	8	0.47	85	0.058	<20	0.97	0.041	0.35	0.6	<0.01	2.7	0.1	<0.05	5	<0.5	<0.2
1540513	Rock	0.039	27	3	0.54	120	0.112	<20	1.12	0.055	0.63	0.6	<0.01	2.8	0.2	<0.05	5	<0.5	<0.2
DUP 1540513	QC	0.042	30	3	0.55	126	0.112	<20	1.19	0.065	0.66	0.5	<0.01	2.9	0.2	<0.05	6	<0.5	<0.2
Reference Materials																			
STD DS10	Standard	0.079	21	54	0.78	425	0.090	<20	1.04	0.070	0.34	3.4	0.28	3.4	4.9	0.28	4	2.0	5.0
STD DS10	Standard	0.083	17	54	0.79	426	0.076	<20	1.05	0.070	0.33	2.9	0.27	3.1	5.1	0.30	4	2.0	4.8
STD DS10	Standard	0.078	16	52	0.79	402	0.074	<20	1.02	0.068	0.33	3.0	0.28	3.0	5.0	0.29	4	1.8	4.8
STD DS10	Standard	0.070	17	56	0.77	426	0.074	<20	1.01	0.070	0.33	3.5	0.27	2.9	5.4	0.29	4	1.7	5.1
STD OREAS45EA	Standard	0.030	8	790	0.11	158	0.109	<20	3.23	0.021	0.05	<0.1	<0.01	91.3	<0.1	<0.05	13	1.2	<0.2
STD OREAS45EA	Standard	0.031	7	792	0.08	142	0.094	<20	3.16	0.021	0.05	<0.1	<0.01	76.4	<0.1	<0.05	12	0.5	<0.2
STD OREAS45EA	Standard	0.028	6	851	0.08	134	0.093	<20	3.26	0.021	0.06	<0.1	<0.01	74.7	<0.1	<0.05	12	<0.5	<0.2
STD OREAS45EA	Standard	0.031	7	899	0.09	140	0.098	<20	3.32	0.021	0.06	<0.1	<0.01	77.5	<0.1	<0.05	12	1.0	<0.2



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QUALITY CONTROL REPORT

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		WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
STD OXC145	Standard		0.211																		
STD OXC145	Standard		0.210																		
STD OXH122	Standard		1.231																		
STD OXH122	Standard		1.207																		
STD OXN117	Standard		7.672																		
STD OXN117	Standard		7.523																		
STD DS10 Expected				13.6	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625
STD OREAS45EA Expected				1.6	709	14.3	31.4	0.26	381	52	400	23.51	10.3	53	10.7	3.5	0.03	0.32	0.26	303	0.036
STD OXN117 Expected			7.679																		
STD OXC145 Expected			0.212																		
STD OXH122 Expected			1.247																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
Prep Wash																					
ROCK-WHI	Prep Blank		<0.005	0.7	5.3	1.1	33	<0.1	1.3	3.5	546	1.66	3.0	0.7	2.4	23	<0.1	<0.1	<0.1	21	0.55
ROCK-WHI	Prep Blank		<0.005	0.7	5.0	1.0	35	<0.1	1.1	4.0	521	1.78	2.1	0.5	2.4	27	<0.1	<0.1	<0.1	23	0.58



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QUALITY CONTROL REPORT

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		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200		
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
STD OXC145	Standard																			
STD OXC145	Standard																			
STD OXH122	Standard																			
STD OXH122	Standard																			
STD OXN117	Standard																			
STD OXN117	Standard																			
STD DS10 Expected		0.0765	17.5	54.6	0.775	412	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3	2.3	5.01	
STD OREAS45EA Expected		0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053			78	0.072	0.036	12.4	0.78	0.07	
STD OXN117 Expected																				
STD OXC145 Expected																				
STD OXH122 Expected																				
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
Prep Wash																				
ROCK-WHI	Prep Blank	0.036	6	2	0.47	53	0.087	<20	0.85	0.067	0.08	0.1	<0.01	2.9	<0.1	<0.05	3	<0.5	<0.2	
ROCK-WHI	Prep Blank	0.037	5	2	0.52	64	0.092	<20	0.93	0.076	0.08	0.1	<0.01	3.2	<0.1	0.06	4	<0.5	<0.2	



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Submitted By: Jodie Gibson
Receiving Lab: Canada-Whitehorse
Received: June 30, 2017
Report Date: July 25, 2017
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CERTIFICATE OF ANALYSIS

WHI17000192.1

CLIENT JOB INFORMATION

Project: LOO
Shipment ID: LOO-20170629-001-ROCK
P.O. Number
Number of Samples: 138

SAMPLE DISPOSAL

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

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

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

CC: Isaac Fage
Shawn Ryan
Greg Dawson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	134	Crush, split and pulverize 250 g rock to 200 mesh			WHI
SLBHP	4	Sort, label and box pulps			WHI
FA430	138	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	138	Environmental disposal charge-Fire assay lead waste			VAN
AQ200	138	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	138	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



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



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CERTIFICATE OF ANALYSIS

WHI17000192.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540538	Rock	3.29	<0.005	3.8	17.8	5.2	59	<0.1	1.1	4.0	476	1.68	<0.5	<0.5	7.3	74	0.1	<0.1	0.4	23	1.96
1540539	Rock	2.94	<0.005	2.0	30.8	5.6	43	<0.1	1.6	4.3	563	1.74	<0.5	<0.5	8.9	77	<0.1	<0.1	0.3	20	2.35
1540540	Rock Pulp	0.09	4.972	8.6	201.8	23.2	77	0.8	15.0	11.3	585	4.20	12.3	4845.0	2.9	78	0.2	4.2	0.5	108	0.98
1540541	Rock	2.94	<0.005	3.9	42.0	6.8	43	0.2	1.0	4.4	568	1.60	<0.5	2.2	8.5	70	0.2	<0.1	3.2	21	3.11
1540542	Rock	3.33	<0.005	2.2	30.3	6.9	59	0.1	2.3	4.8	547	1.80	0.5	8.5	9.0	47	0.2	<0.1	1.5	22	1.77
1540543	Rock	2.75	0.304	2.5	65.6	4.1	33	0.2	1.9	4.3	426	1.65	<0.5	254.3	9.2	44	<0.1	0.1	0.4	16	1.82
1540544	Rock	3.44	0.024	1.0	22.0	3.7	46	<0.1	1.3	4.2	418	1.57	<0.5	10.6	10.9	37	0.1	0.1	0.3	18	1.41
1540545	Rock	3.49	0.006	0.9	7.6	4.6	50	<0.1	2.7	3.5	373	1.47	<0.5	8.7	5.8	53	<0.1	0.1	0.1	22	1.54
1540546	Rock	3.34	<0.005	0.9	8.5	4.1	37	<0.1	1.6	3.3	434	1.52	<0.5	2.1	7.1	61	<0.1	0.1	<0.1	18	2.17
1540547	Rock	3.00	0.006	0.7	6.0	5.0	34	<0.1	1.0	2.8	371	1.27	1.1	1.3	5.5	71	<0.1	0.1	<0.1	15	3.08
1540548	Rock	2.55	0.010	1.0	10.5	4.1	38	<0.1	2.2	3.8	367	1.62	<0.5	4.8	6.7	59	<0.1	<0.1	<0.1	17	2.13
1540549	Rock	2.76	0.042	1.1	11.8	4.5	35	<0.1	1.8	4.0	446	1.62	0.7	35.0	6.6	59	<0.1	0.2	<0.1	16	2.49
1540550	Rock	2.64	0.225	1.5	31.3	3.6	27	0.2	1.6	3.4	563	1.40	<0.5	484.8	7.6	36	<0.1	<0.1	0.1	9	2.62
1540551	Rock	3.12	3.496	2.3	8.9	4.0	12	2.4	1.1	4.7	218	1.47	0.9	3820.7	7.5	27	<0.1	0.1	1.3	4	1.02
1540552	Rock	3.37	0.486	1.5	10.8	2.4	35	0.4	2.2	5.3	411	1.70	<0.5	431.0	9.0	29	<0.1	0.1	0.3	11	1.44
1540553	Rock	3.66	0.178	1.1	105.3	3.0	28	0.2	1.9	4.5	377	1.34	<0.5	147.5	7.4	24	<0.1	0.1	0.4	7	1.53
1540554	Rock	3.32	0.028	0.7	27.4	3.6	27	<0.1	1.1	3.1	394	1.40	<0.5	22.4	8.4	56	<0.1	0.2	<0.1	12	2.01
1540555	Rock	3.80	0.010	0.9	3.3	3.8	40	<0.1	3.2	3.5	374	1.38	<0.5	8.7	6.0	69	<0.1	0.1	<0.1	17	1.76
1540556	Rock	3.54	0.008	0.9	5.0	4.1	39	<0.1	1.8	4.2	596	1.79	<0.5	7.9	9.1	79	<0.1	0.2	<0.1	20	1.85
1540557	Rock	3.43	0.008	0.8	7.1	3.6	38	<0.1	1.2	3.9	433	1.70	<0.5	12.3	10.1	66	<0.1	0.2	<0.1	20	1.49
1540558	Rock	3.34	0.014	1.2	6.8	3.2	32	<0.1	2.3	4.5	461	1.67	1.0	5.8	8.5	67	<0.1	0.1	<0.1	17	2.09
1540559	Rock	3.10	<0.005	2.1	7.6	3.2	35	<0.1	1.7	4.2	418	1.75	1.3	4.9	8.5	56	<0.1	0.1	<0.1	21	1.54
1540560	Rock	0.16	<0.005	0.3	2.4	4.4	21	0.1	3.0	0.4	103	0.17	2.8	3.3	0.3	286	0.3	1.4	<0.1	16	21.45
1540561	Rock	3.76	<0.005	2.7	8.6	4.0	33	<0.1	2.2	4.2	469	1.82	<0.5	2.5	8.3	83	<0.1	<0.1	<0.1	20	2.02
1540562	Rock	4.13	<0.005	2.8	22.9	3.8	35	<0.1	2.2	3.8	484	1.74	1.0	2.7	7.0	69	<0.1	0.2	0.1	19	2.20
1540563	Rock	3.58	<0.005	1.8	14.9	2.2	40	<0.1	2.3	4.6	510	1.95	<0.5	3.7	8.9	50	<0.1	<0.1	0.1	26	0.98
1540564	Rock	3.74	<0.005	1.7	8.9	3.1	34	<0.1	1.2	3.8	452	1.63	1.0	4.4	8.5	64	<0.1	0.1	<0.1	19	1.52
1540565	Rock	3.90	<0.005	1.9	9.0	2.2	37	<0.1	1.7	4.0	422	1.73	<0.5	2.7	8.6	34	<0.1	0.1	0.2	17	0.71
1540566	Rock	3.43	<0.005	1.9	3.1	4.8	31	<0.1	2.1	3.4	469	1.45	1.1	3.4	6.7	78	<0.1	0.1	<0.1	16	2.25
1540567	Rock	3.25	<0.005	0.9	2.6	7.3	42	<0.1	0.9	4.1	759	1.83	1.4	5.0	6.7	119	<0.1	<0.1	<0.1	16	4.52



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Project: LOO
Report Date: July 25, 2017

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CERTIFICATE OF ANALYSIS

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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
1540538	Rock	0.030	24	3	0.31	107	0.084	<20	1.08	0.040	0.50	0.4	<0.01	3.6	0.2	<0.05	5	<0.5	<0.2
1540539	Rock	0.031	24	4	0.31	150	0.058	<20	0.96	0.031	0.39	0.4	<0.01	3.9	0.1	<0.05	4	<0.5	<0.2
1540540	Rock Pulp	0.059	8	19	0.89	132	0.158	<20	1.85	0.201	0.25	5.6	0.15	3.3	0.1	<0.05	5	<0.5	<0.2
1540541	Rock	0.030	26	2	0.30	84	0.060	<20	1.01	0.033	0.38	0.4	0.01	4.3	0.1	<0.05	4	<0.5	<0.2
1540542	Rock	0.031	25	5	0.34	86	0.055	<20	0.92	0.032	0.36	0.4	0.03	4.4	0.1	<0.05	4	<0.5	<0.2
1540543	Rock	0.032	25	5	0.32	96	0.020	<20	0.99	0.050	0.30	0.2	0.04	3.4	<0.1	<0.05	4	<0.5	0.3
1540544	Rock	0.030	28	3	0.30	74	0.036	<20	0.80	0.030	0.27	0.4	0.01	3.6	0.1	<0.05	3	<0.5	<0.2
1540545	Rock	0.030	19	7	0.29	95	0.034	<20	0.79	0.063	0.28	0.4	<0.01	2.5	0.1	<0.05	4	<0.5	<0.2
1540546	Rock	0.027	21	4	0.29	74	0.038	<20	0.82	0.038	0.29	0.3	<0.01	3.0	0.1	<0.05	4	<0.5	<0.2
1540547	Rock	0.028	18	3	0.20	85	0.013	<20	0.83	0.023	0.23	0.2	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
1540548	Rock	0.028	22	5	0.22	83	0.028	<20	0.69	0.033	0.24	0.3	<0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
1540549	Rock	0.030	20	5	0.17	62	0.009	<20	0.71	0.048	0.21	0.2	<0.01	2.9	<0.1	<0.05	3	<0.5	<0.2
1540550	Rock	0.028	23	5	0.10	86	0.003	<20	0.56	0.034	0.22	0.2	0.05	2.0	<0.1	<0.05	2	<0.5	<0.2
1540551	Rock	0.030	20	3	0.07	92	0.002	<20	0.40	0.042	0.24	0.4	0.44	1.1	<0.1	0.12	1	<0.5	5.2
1540552	Rock	0.036	24	6	0.21	75	0.004	<20	0.70	0.045	0.26	0.2	0.05	2.4	<0.1	<0.05	3	<0.5	1.5
1540553	Rock	0.032	23	5	0.11	71	0.003	<20	0.52	0.042	0.23	0.3	0.05	2.4	<0.1	<0.05	2	<0.5	0.4
1540554	Rock	0.032	24	4	0.10	63	0.004	<20	0.52	0.043	0.22	0.2	0.02	3.1	<0.1	<0.05	2	<0.5	<0.2
1540555	Rock	0.030	17	7	0.26	49	0.018	<20	0.65	0.047	0.21	0.3	<0.01	2.7	<0.1	<0.05	3	<0.5	<0.2
1540556	Rock	0.028	22	6	0.34	251	0.034	<20	0.82	0.058	0.29	0.3	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
1540557	Rock	0.032	26	4	0.26	89	0.032	<20	0.64	0.043	0.25	0.3	<0.01	3.9	<0.1	<0.05	3	<0.5	<0.2
1540558	Rock	0.033	27	7	0.17	81	0.017	<20	0.63	0.034	0.24	0.2	0.02	4.0	<0.1	<0.05	3	<0.5	<0.2
1540559	Rock	0.031	24	5	0.27	60	0.053	<20	0.82	0.039	0.35	0.2	<0.01	3.9	0.1	<0.05	4	<0.5	<0.2
1540560	Rock	0.016	2	3	10.41	16	0.002	<20	0.11	0.003	0.02	0.2	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
1540561	Rock	0.031	25	6	0.36	58	0.048	<20	0.68	0.036	0.31	0.4	<0.01	4.0	0.1	<0.05	3	<0.5	<0.2
1540562	Rock	0.029	21	6	0.38	69	0.035	<20	0.78	0.045	0.31	0.3	<0.01	3.1	0.1	<0.05	4	<0.5	<0.2
1540563	Rock	0.034	27	7	0.43	128	0.101	<20	0.96	0.056	0.52	0.9	<0.01	3.5	0.2	<0.05	5	<0.5	<0.2
1540564	Rock	0.028	24	5	0.32	66	0.048	<20	0.87	0.058	0.33	0.5	<0.01	3.3	0.1	<0.05	4	<0.5	<0.2
1540565	Rock	0.028	25	7	0.36	77	0.060	<20	0.82	0.063	0.35	1.1	<0.01	2.8	0.1	<0.05	4	<0.5	<0.2
1540566	Rock	0.024	20	7	0.28	72	0.036	<20	0.77	0.034	0.27	0.9	0.01	2.9	<0.1	<0.05	3	<0.5	<0.2
1540567	Rock	0.024	21	4	1.06	31	0.010	<20	0.54	0.006	0.15	0.3	<0.01	3.2	<0.1	<0.05	2	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540568	Rock	3.41	<0.005	1.1	13.2	4.5	40	<0.1	2.1	4.6	509	1.73	<0.5	0.9	7.2	75	<0.1	0.1	0.1	17	2.27
1540569	Rock	3.87	<0.005	1.5	32.2	5.1	43	<0.1	2.7	4.8	599	1.96	<0.5	5.0	7.6	119	<0.1	<0.1	0.6	22	2.23
1540570	Rock	3.91	<0.005	2.1	24.6	4.7	33	<0.1	1.4	3.2	376	1.38	<0.5	1.8	9.4	52	<0.1	<0.1	0.8	15	1.59
1540571	Rock	2.86	<0.005	2.9	5.5	3.8	34	<0.1	1.5	2.3	404	1.27	1.8	2.3	10.6	51	<0.1	<0.1	<0.1	10	2.40
1540572	Rock	2.25	<0.005	3.1	13.4	5.1	48	<0.1	2.2	4.2	616	2.07	0.8	2.7	9.3	100	<0.1	<0.1	0.8	14	4.14
1540573	Rock	2.58	<0.005	1.6	5.2	8.7	35	<0.1	0.8	3.0	642	1.58	1.8	1.3	8.2	162	<0.1	<0.1	0.1	11	7.09
1540574	Rock	2.64	<0.005	1.4	4.2	5.8	34	<0.1	1.5	2.6	525	1.44	2.6	0.9	10.5	87	<0.1	<0.1	<0.1	11	2.52
1540575	Rock	2.40	<0.005	1.7	4.6	5.1	38	<0.1	2.5	4.6	588	1.85	2.0	1.3	9.7	109	<0.1	<0.1	0.1	22	3.25
1540576	Rock	3.14	<0.005	1.1	3.2	3.3	34	<0.1	1.3	3.7	391	1.48	1.0	<0.5	9.8	54	<0.1	<0.1	<0.1	21	1.73
1540577	Rock	3.41	<0.005	1.7	3.4	5.7	38	<0.1	1.6	4.2	564	1.80	6.4	1.4	8.5	119	<0.1	0.2	<0.1	19	3.36
1540578	Rock	3.77	<0.005	1.3	2.8	5.2	44	<0.1	1.9	4.2	549	1.79	1.0	<0.5	8.1	112	<0.1	<0.1	<0.1	21	2.86
1540579	Rock	3.54	<0.005	1.2	4.1	3.6	48	<0.1	1.5	4.8	537	1.90	<0.5	1.5	9.3	47	<0.1	<0.1	<0.1	26	1.24
1540580	Rock Pulp	0.08	0.480	6.5	272.2	15.0	53	0.6	111.7	14.6	485	2.88	168.3	565.3	3.2	79	0.2	1.6	0.1	66	1.91
1540581	Rock	2.78	<0.005	1.1	3.0	4.3	46	<0.1	1.5	4.4	521	1.95	<0.5	<0.5	9.1	58	<0.1	<0.1	<0.1	28	1.81
1540582	Rock	3.78	<0.005	1.7	4.1	2.4	41	<0.1	2.8	5.0	511	2.02	<0.5	0.8	9.0	60	<0.1	<0.1	<0.1	31	1.26
1540583	Rock	4.33	<0.005	1.7	6.5	2.3	39	<0.1	1.6	4.6	524	1.94	<0.5	<0.5	8.9	57	<0.1	<0.1	<0.1	34	0.94
1540584	Rock	4.14	<0.005	1.6	3.8	3.1	38	<0.1	2.9	5.1	576	1.97	<0.5	0.6	10.0	75	<0.1	<0.1	<0.1	32	1.34
1540585	Rock	3.89	<0.005	1.5	4.7	3.0	43	<0.1	1.9	4.7	579	2.05	<0.5	1.1	9.5	60	<0.1	<0.1	<0.1	34	1.05
1540586	Rock	3.40	<0.005	1.2	7.9	5.7	50	<0.1	2.7	5.9	612	2.13	<0.5	1.5	8.4	102	<0.1	0.1	<0.1	39	1.84
1540587	Rock	3.15	<0.005	1.6	3.9	4.1	34	<0.1	2.3	4.3	469	1.93	<0.5	1.2	10.7	94	<0.1	<0.1	<0.1	26	1.41
1540588	Rock	3.74	<0.005	1.0	5.7	4.7	44	<0.1	1.7	4.7	546	1.85	<0.5	2.2	8.0	89	<0.1	<0.1	<0.1	28	1.70
1540589	Rock	3.74	<0.005	1.8	4.1	3.1	40	<0.1	2.2	4.8	516	2.02	<0.5	1.9	10.1	79	<0.1	<0.1	<0.1	29	1.04
1540590	Rock	3.84	<0.005	1.5	6.6	4.2	44	<0.1	3.7	6.0	697	2.28	<0.5	1.4	8.5	140	<0.1	<0.1	<0.1	36	2.58
1540591	Rock	3.66	<0.005	1.4	4.2	2.3	38	<0.1	2.1	5.2	552	2.09	<0.5	1.0	9.9	101	<0.1	<0.1	<0.1	30	1.13
1540592	Rock	3.67	<0.005	2.8	6.3	2.6	39	<0.1	2.8	5.3	526	2.21	<0.5	1.1	9.0	151	<0.1	<0.1	<0.1	31	1.05
1540593	Rock	3.55	<0.005	1.6	5.6	2.2	42	<0.1	3.0	6.1	561	2.18	<0.5	1.1	7.3	179	<0.1	<0.1	<0.1	32	1.16
1540594	Rock	3.84	<0.005	1.7	5.7	2.2	39	<0.1	2.0	5.0	522	2.00	0.6	1.9	9.1	162	<0.1	<0.1	<0.1	28	1.10
1540595	Rock	3.45	<0.005	1.7	4.6	1.8	39	<0.1	2.1	5.3	586	2.18	<0.5	2.7	9.7	87	<0.1	<0.1	<0.1	29	1.17
1540596	Rock	3.07	<0.005	2.0	2.9	2.4	38	<0.1	2.7	5.2	613	2.04	<0.5	1.1	9.6	206	<0.1	<0.1	<0.1	24	1.88
1540597	Rock	3.60	<0.005	1.6	5.8	2.2	41	<0.1	1.7	4.9	479	1.84	0.6	2.6	8.9	63	<0.1	<0.1	<0.1	23	1.23



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Method Analyte Unit	MDL	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm
1540568	Rock	0.028	20	6	0.36	47	0.022	<20	0.78	0.040	0.27	0.4	<0.01	3.4	<0.1	<0.05	3	<0.5	<0.2
1540569	Rock	0.035	21	8	0.45	40	0.020	<20	0.54	0.037	0.18	0.3	<0.01	4.4	<0.1	<0.05	2	<0.5	<0.2
1540570	Rock	0.030	26	6	0.23	53	0.044	<20	0.82	0.042	0.29	0.5	<0.01	3.5	0.1	<0.05	4	<0.5	<0.2
1540571	Rock	0.025	31	6	0.21	46	0.033	<20	0.80	0.010	0.26	0.5	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
1540572	Rock	0.020	25	7	0.54	612	0.021	<20	0.79	0.003	0.20	0.4	<0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
1540573	Rock	0.017	22	4	0.67	816	0.019	<20	0.52	0.001	0.16	0.4	<0.01	2.4	<0.1	<0.05	2	<0.5	<0.2
1540574	Rock	0.022	27	7	0.49	217	0.026	<20	1.00	0.003	0.24	0.3	0.01	3.4	<0.1	<0.05	3	<0.5	<0.2
1540575	Rock	0.038	27	8	0.50	305	0.041	<20	0.88	0.002	0.33	0.4	0.01	4.5	0.1	<0.05	4	<0.5	<0.2
1540576	Rock	0.031	26	5	0.44	296	0.046	<20	1.06	0.003	0.32	0.3	<0.01	4.7	0.1	<0.05	4	<0.5	<0.2
1540577	Rock	0.030	23	6	0.62	208	0.015	<20	0.85	0.004	0.22	0.1	0.02	4.5	<0.1	<0.05	3	<0.5	<0.2
1540578	Rock	0.032	24	8	0.50	252	0.050	<20	0.95	0.044	0.35	0.3	0.01	3.9	0.1	<0.05	4	<0.5	<0.2
1540579	Rock	0.033	26	7	0.48	132	0.105	<20	1.11	0.048	0.60	0.6	<0.01	4.7	0.1	<0.05	5	<0.5	<0.2
1540580	Rock Pulp	0.031	9	109	1.45	127	0.109	<20	2.79	0.337	0.23	1.0	0.04	3.3	<0.1	0.09	6	<0.5	<0.2
1540581	Rock	0.033	26	7	0.49	184	0.107	<20	1.40	0.014	0.59	0.4	<0.01	4.9	0.2	<0.05	5	<0.5	<0.2
1540582	Rock	0.035	26	10	0.48	112	0.110	<20	1.09	0.055	0.61	1.0	<0.01	4.3	0.2	<0.05	5	<0.5	<0.2
1540583	Rock	0.033	25	8	0.48	135	0.125	<20	1.14	0.078	0.67	1.2	<0.01	4.1	0.2	<0.05	6	<0.5	<0.2
1540584	Rock	0.032	30	11	0.46	122	0.119	<20	1.10	0.063	0.62	0.8	<0.01	4.0	0.2	<0.05	5	<0.5	<0.2
1540585	Rock	0.032	25	9	0.48	116	0.128	<20	1.17	0.069	0.69	0.9	<0.01	3.8	0.2	<0.05	5	<0.5	<0.2
1540586	Rock	0.040	23	14	0.62	120	0.102	<20	1.24	0.049	0.60	0.5	<0.01	4.7	0.2	<0.05	6	<0.5	<0.2
1540587	Rock	0.028	32	10	0.41	81	0.058	<20	1.06	0.066	0.41	0.5	<0.01	2.9	0.1	<0.05	5	<0.5	<0.2
1540588	Rock	0.032	24	9	0.48	87	0.076	<20	1.18	0.052	0.51	0.4	<0.01	3.7	0.1	<0.05	6	<0.5	<0.2
1540589	Rock	0.030	27	10	0.46	100	0.115	<20	1.06	0.064	0.59	0.8	<0.01	4.0	0.2	<0.05	5	<0.5	<0.2
1540590	Rock	0.038	28	12	0.58	124	0.108	<20	1.26	0.061	0.63	0.5	<0.01	4.5	0.2	<0.05	6	<0.5	<0.2
1540591	Rock	0.034	27	8	0.52	105	0.119	<20	1.22	0.061	0.67	0.7	<0.01	3.7	0.2	<0.05	6	<0.5	<0.2
1540592	Rock	0.033	24	11	0.53	107	0.110	<20	1.31	0.080	0.67	0.7	<0.01	4.0	0.2	<0.05	6	<0.5	<0.2
1540593	Rock	0.043	22	11	0.61	87	0.087	<20	1.18	0.054	0.53	0.6	<0.01	3.4	0.2	<0.05	5	<0.5	<0.2
1540594	Rock	0.032	22	10	0.49	94	0.089	<20	1.20	0.077	0.57	0.4	<0.01	3.8	0.2	<0.05	6	<0.5	<0.2
1540595	Rock	0.034	28	10	0.54	97	0.117	<20	1.19	0.061	0.65	0.7	<0.01	4.2	0.2	<0.05	6	<0.5	<0.2
1540596	Rock	0.033	28	11	0.56	109	0.075	<20	1.12	0.057	0.47	0.5	<0.01	3.7	0.1	<0.05	6	<0.5	<0.2
1540597	Rock	0.033	24	8	0.50	112	0.082	<20	1.03	0.057	0.49	0.6	<0.01	3.6	0.1	<0.05	5	<0.5	<0.2



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Report Date: July 25, 2017

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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1540598	Rock	3.21	<0.005	1.4	5.0	3.0	43	<0.1	3.1	5.9	633	2.26	0.7	1.2	8.5	93	<0.1	<0.1	<0.1	36	2.38
1540599	Rock	2.40	<0.005	1.4	12.3	3.0	46	<0.1	4.0	7.2	712	2.54	<0.5	1.0	8.4	89	<0.1	<0.1	<0.1	46	2.34
1540600	Rock	0.16	<0.005	0.3	2.2	4.5	21	0.1	2.9	0.5	116	0.17	3.1	2.2	0.3	277	0.3	1.3	<0.1	16	20.26
1540601	Rock	3.04	<0.005	1.3	8.2	2.8	36	<0.1	1.7	4.8	536	1.99	0.8	<0.5	8.1	88	<0.1	<0.1	<0.1	30	2.27
1540602	Rock	3.80	<0.005	2.0	5.4	2.1	42	<0.1	3.3	5.4	562	2.28	<0.5	2.3	9.2	67	<0.1	<0.1	<0.1	31	1.16
1540603	Rock	1.89	0.007	1.8	9.4	5.2	28	<0.1	5.9	3.8	337	1.46	1.0	6.7	8.7	12	<0.1	0.1	<0.1	18	0.22
1540604	Rock	3.75	<0.005	1.1	3.8	2.1	19	<0.1	3.6	2.3	257	1.03	<0.5	1.6	12.9	9	<0.1	<0.1	<0.1	7	0.54
1540605	Rock	4.36	<0.005	0.8	2.9	3.2	23	<0.1	1.8	2.5	351	1.05	<0.5	<0.5	12.6	26	<0.1	<0.1	<0.1	7	1.65
1540606	Rock	3.07	<0.005	0.6	3.2	2.4	20	<0.1	2.2	2.0	251	1.01	<0.5	1.0	15.2	16	<0.1	<0.1	<0.1	8	0.59
1540607	Rock	3.15	<0.005	0.7	3.3	2.7	19	<0.1	2.4	2.2	298	1.12	<0.5	0.8	12.3	20	<0.1	<0.1	<0.1	9	0.80
1540608	Rock	3.15	<0.005	0.5	3.6	3.0	22	<0.1	1.3	2.4	312	1.06	<0.5	0.9	13.6	25	<0.1	<0.1	<0.1	10	0.98
1540609	Rock	3.38	<0.005	0.6	2.1	2.3	29	<0.1	1.9	1.8	250	1.01	<0.5	0.7	9.0	22	<0.1	<0.1	<0.1	9	0.98
1540610	Rock	3.12	<0.005	0.6	1.3	5.6	32	<0.1	1.9	1.5	302	0.80	<0.5	0.8	2.0	50	<0.1	<0.1	<0.1	9	3.52
1540611	Rock	2.88	<0.005	0.5	2.7	3.4	26	<0.1	1.2	2.2	292	0.96	<0.5	<0.5	11.3	31	<0.1	0.1	<0.1	8	1.35
1540612	Rock	2.20	0.010	0.7	5.7	5.1	29	<0.1	2.2	3.5	337	1.27	<0.5	2.1	8.2	41	<0.1	0.1	<0.1	20	2.38
1540613	Rock	3.18	<0.005	0.7	4.4	5.7	63	<0.1	2.9	4.3	421	1.41	3.8	2.2	1.5	53	<0.1	0.8	<0.1	29	3.14
1540614	Rock	2.89	<0.005	0.7	4.3	3.8	25	<0.1	1.3	3.1	377	1.24	<0.5	<0.5	10.6	51	<0.1	<0.1	<0.1	17	2.05
1540615	Rock	2.94	<0.005	0.9	3.9	3.4	18	<0.1	1.6	2.1	325	0.98	<0.5	<0.5	13.5	35	<0.1	<0.1	<0.1	9	1.55
1540616	Rock	2.97	<0.005	1.4	4.4	3.0	16	<0.1	2.3	2.3	276	0.91	<0.5	1.8	12.7	25	<0.1	<0.1	<0.1	7	1.31
1540617	Rock	3.68	<0.005	1.1	3.4	3.0	20	<0.1	1.4	2.3	301	0.96	<0.5	1.8	15.3	29	<0.1	<0.1	<0.1	8	1.77
1540618	Rock	2.97	<0.005	1.2	2.9	3.3	25	<0.1	2.0	2.9	397	1.29	<0.5	0.6	11.1	33	<0.1	<0.1	<0.1	12	2.39
1540619	Rock	3.00	<0.005	1.5	3.4	3.2	25	<0.1	1.8	2.5	428	1.21	<0.5	0.8	12.1	33	<0.1	<0.1	<0.1	12	1.99
1540620	Rock Pulp	0.09	5.340	8.5	204.1	23.9	80	0.9	14.9	10.9	594	4.36	12.3	5695.3	3.1	77	0.2	4.4	0.5	107	1.00
1540621	Rock	3.14	0.005	1.8	3.6	4.5	24	<0.1	2.4	2.4	413	1.03	<0.5	1.5	10.9	65	<0.1	<0.1	<0.1	10	2.51
1540622	Rock	2.15	0.882	7.5	10.1	5.7	21	0.5	1.8	5.8	552	1.17	<0.5	931.9	9.4	45	<0.1	0.1	0.5	11	1.85
1540623	Rock	2.60	0.026	27.3	9.8	5.8	41	<0.1	2.3	4.4	497	1.80	<0.5	24.2	9.1	50	<0.1	0.1	0.1	19	1.47
1540624	Rock	2.88	0.013	2.8	7.4	2.8	36	<0.1	2.2	4.4	494	1.78	<0.5	11.9	8.4	34	<0.1	<0.1	<0.1	20	1.01
1540625	Rock	3.09	0.016	2.5	6.2	2.8	43	<0.1	1.4	4.4	470	1.89	<0.5	13.0	9.8	40	<0.1	0.1	<0.1	25	1.04
1540626	Rock	3.17	0.008	2.2	5.2	2.1	35	<0.1	2.3	4.4	475	1.92	<0.5	3.3	8.9	31	<0.1	<0.1	<0.1	22	0.77
1540627	Rock	3.27	0.006	1.9	6.8	2.5	43	<0.1	1.5	4.6	498	1.83	<0.5	2.2	11.6	39	<0.1	0.1	<0.1	20	0.87



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Method Analyte Unit MDL	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	
	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1540598	Rock	0.039	24	11	0.57	105	0.111	<20	1.37	0.055	0.62	0.5	<0.01	5.2	0.2	<0.05	7	<0.5	<0.2
1540599	Rock	0.051	24	10	0.74	125	0.131	<20	1.38	0.040	0.69	0.4	<0.01	5.8	0.2	<0.05	7	<0.5	<0.2
1540600	Rock	0.014	1	3	11.45	18	0.003	<20	0.12	0.002	0.02	0.2	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
1540601	Rock	0.036	25	8	0.45	126	0.072	<20	1.11	0.033	0.45	0.4	<0.01	4.7	0.1	<0.05	5	<0.5	<0.2
1540602	Rock	0.037	26	12	0.49	126	0.122	<20	1.21	0.070	0.65	0.6	<0.01	4.4	0.2	<0.05	6	<0.5	<0.2
1540603	Rock	0.020	19	7	0.23	88	0.042	<20	1.03	0.028	0.28	0.4	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
1540604	Rock	0.017	26	6	0.17	51	0.034	<20	0.74	0.006	0.29	1.4	<0.01	1.7	<0.1	<0.05	3	<0.5	<0.2
1540605	Rock	0.018	26	3	0.21	70	0.042	<20	0.91	0.014	0.37	1.0	<0.01	1.6	0.1	<0.05	3	<0.5	<0.2
1540606	Rock	0.014	25	4	0.18	61	0.047	<20	0.70	0.030	0.32	1.0	<0.01	2.1	0.1	<0.05	3	<0.5	<0.2
1540607	Rock	0.014	27	6	0.17	65	0.046	<20	0.69	0.047	0.32	0.9	<0.01	2.0	0.1	<0.05	3	<0.5	<0.2
1540608	Rock	0.016	29	3	0.19	76	0.051	<20	0.70	0.032	0.33	0.8	<0.01	2.5	0.1	<0.05	3	<0.5	<0.2
1540609	Rock	0.016	19	4	0.22	79	0.044	<20	0.77	0.055	0.34	0.8	<0.01	1.7	0.1	<0.05	4	<0.5	<0.2
1540610	Rock	0.016	6	4	0.14	89	0.024	<20	0.78	0.007	0.19	0.3	<0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
1540611	Rock	0.018	24	2	0.19	66	0.036	<20	0.99	0.006	0.32	0.5	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
1540612	Rock	0.033	20	5	0.19	74	0.027	<20	0.90	0.003	0.26	0.4	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
1540613	Rock	0.050	9	9	0.33	114	0.032	<20	1.03	0.017	0.35	0.4	<0.01	2.8	0.1	<0.05	6	<0.5	<0.2
1540614	Rock	0.025	23	4	0.26	89	0.050	<20	0.90	0.010	0.38	0.6	<0.01	3.2	0.1	<0.05	4	<0.5	<0.2
1540615	Rock	0.017	24	4	0.13	68	0.031	<20	0.87	0.003	0.30	0.4	<0.01	2.3	0.1	<0.05	3	<0.5	<0.2
1540616	Rock	0.018	25	6	0.09	70	0.015	<20	0.62	0.003	0.20	0.4	<0.01	2.1	<0.1	<0.05	2	<0.5	<0.2
1540617	Rock	0.015	23	3	0.10	109	0.020	<20	0.81	0.002	0.21	0.4	<0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
1540618	Rock	0.019	25	5	0.15	223	0.033	<20	0.73	0.002	0.27	0.4	<0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
1540619	Rock	0.022	25	4	0.16	106	0.037	<20	0.83	0.003	0.30	0.4	<0.01	2.5	0.1	<0.05	3	<0.5	<0.2
1540620	Rock Pulp	0.059	8	19	0.89	142	0.160	<20	1.86	0.201	0.24	5.5	0.19	3.4	<0.1	<0.05	6	<0.5	<0.2
1540621	Rock	0.018	21	6	0.14	114	0.029	<20	0.86	0.003	0.23	0.5	<0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
1540622	Rock	0.031	21	5	0.11	176	0.006	<20	0.89	0.004	0.29	0.3	0.06	3.0	<0.1	<0.05	3	<0.5	1.1
1540623	Rock	0.030	25	6	0.32	125	0.059	<20	1.04	0.043	0.43	0.4	<0.01	3.9	0.1	<0.05	4	<0.5	<0.2
1540624	Rock	0.030	30	6	0.34	121	0.070	<20	0.91	0.044	0.42	0.5	<0.01	3.3	0.1	<0.05	4	<0.5	<0.2
1540625	Rock	0.035	27	5	0.35	121	0.068	<20	1.03	0.057	0.42	0.2	<0.01	4.2	0.2	<0.05	5	<0.5	<0.2
1540626	Rock	0.030	26	7	0.38	90	0.083	<20	1.00	0.059	0.48	0.3	<0.01	3.4	0.2	<0.05	4	<0.5	<0.2
1540627	Rock	0.031	35	5	0.41	67	0.045	<20	0.93	0.054	0.31	0.2	<0.01	3.4	<0.1	<0.05	5	<0.5	<0.2



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Method Analyte	Unit	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
			Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
1540628	Rock	3.42	0.008	1.7	8.9	2.4	39	<0.1	1.8	4.4	487	1.91	<0.5	3.6	8.8	40	<0.1	0.1	0.2	22	0.99
1540629	Rock	3.46	0.006	2.3	8.0	4.1	48	<0.1	1.5	4.3	527	1.85	<0.5	3.4	9.5	67	<0.1	0.2	0.1	21	1.37
1540630	Rock	3.03	0.005	2.1	16.1	5.9	45	<0.1	2.7	5.3	635	2.05	0.8	1.4	9.4	114	0.1	0.2	0.2	29	2.19
1540631	Rock	3.40	<0.005	0.9	4.0	5.3	35	<0.1	2.2	4.3	588	1.70	<0.5	1.7	7.8	95	<0.1	0.1	<0.1	19	3.07
1540632	Rock	3.23	<0.005	1.0	8.9	3.8	35	<0.1	1.2	3.5	421	1.39	0.7	2.5	8.1	62	<0.1	0.1	0.1	16	1.66
1540633	Rock	3.23	<0.005	1.2	12.1	3.1	40	<0.1	2.9	4.8	496	1.93	1.0	2.4	8.1	74	<0.1	0.1	0.2	24	1.68
1540634	Rock	3.32	0.008	1.2	10.3	3.3	33	<0.1	2.4	3.4	417	1.40	2.4	3.0	8.7	58	<0.1	0.2	<0.1	12	1.60
1540635	Rock	3.31	0.006	1.3	9.4	3.4	35	<0.1	1.8	3.7	455	1.63	0.8	2.9	9.6	74	<0.1	0.2	0.1	16	1.55
1540636	Rock	3.30	<0.005	2.1	16.4	4.3	45	<0.1	3.2	5.0	597	2.10	0.9	2.9	8.8	91	<0.1	0.1	0.5	30	2.08
1540637	Rock	3.42	<0.005	1.4	24.8	3.6	40	<0.1	2.3	4.2	491	1.98	0.6	1.7	9.0	89	<0.1	<0.1	0.7	23	1.47
1540638	Rock	3.27	<0.005	1.3	35.8	4.0	43	<0.1	1.7	6.4	670	2.23	<0.5	1.4	7.5	104	<0.1	<0.1	0.8	42	2.03
1540639	Rock	3.48	<0.005	1.6	27.8	3.2	44	<0.1	2.6	5.7	594	2.22	<0.5	1.1	8.9	74	0.1	<0.1	0.9	36	1.31
1540640	Rock	0.15	0.006	0.4	4.3	4.4	26	0.1	2.6	0.8	148	0.30	3.3	1.8	0.8	255	0.2	1.5	<0.1	17	19.37
1540641	Rock	3.31	<0.005	1.2	6.2	3.4	42	<0.1	1.4	4.3	557	1.80	<0.5	1.8	9.8	60	<0.1	<0.1	0.2	24	1.01
1540642	Rock	3.51	<0.005	1.3	2.7	2.6	38	<0.1	2.3	4.5	558	1.94	<0.5	3.1	9.2	57	<0.1	<0.1	<0.1	25	0.96
1540643	Rock	3.33	<0.005	1.5	35.9	3.2	39	<0.1	1.6	4.2	493	1.80	<0.5	2.1	9.4	54	<0.1	<0.1	1.1	21	0.84
1540644	Rock	3.28	<0.005	2.3	38.4	2.8	39	<0.1	2.0	4.9	532	2.06	<0.5	0.8	9.3	65	<0.1	0.1	1.2	23	1.00
1540645	Rock	3.00	<0.005	1.6	29.2	3.5	45	<0.1	4.4	5.5	596	2.16	<0.5	3.1	9.6	69	<0.1	<0.1	0.6	29	1.40
1540646	Rock	2.63	<0.005	2.0	35.3	4.9	44	<0.1	2.2	5.1	701	1.97	0.5	1.6	8.8	66	0.1	<0.1	1.3	21	1.87
1540647	Rock	2.98	<0.005	1.9	14.6	2.4	48	<0.1	2.6	4.1	575	1.86	<0.5	1.7	8.8	36	<0.1	<0.1	0.3	20	1.04
1540648	Rock	3.16	<0.005	2.1	27.5	4.6	31	<0.1	2.0	2.5	373	1.41	<0.5	1.2	10.8	36	<0.1	<0.1	0.3	13	0.85
1540649	Rock	2.91	<0.005	3.0	17.5	3.8	27	<0.1	2.5	3.3	450	1.35	<0.5	1.7	10.0	52	<0.1	0.1	0.3	14	1.75
1540650	Rock	2.89	0.005	1.8	42.0	3.5	44	<0.1	1.1	4.2	569	1.71	<0.5	0.9	8.2	52	<0.1	<0.1	1.5	20	1.89
1540651	Rock	3.19	0.006	2.0	12.0	1.6	45	<0.1	2.0	3.5	453	1.65	<0.5	1.4	9.2	27	<0.1	<0.1	0.2	17	0.67
1540652	Rock	3.39	<0.005	2.1	33.0	3.3	34	<0.1	1.9	3.1	428	1.36	<0.5	2.0	10.7	37	0.1	<0.1	0.5	14	1.08
1540653	Rock	2.93	<0.005	2.1	4.6	2.4	28	<0.1	2.2	2.9	437	1.33	<0.5	2.2	10.8	50	<0.1	<0.1	<0.1	13	1.31
1540654	Rock	2.93	<0.005	1.8	4.0	2.2	38	<0.1	1.4	4.2	535	1.61	<0.5	0.7	9.8	66	<0.1	<0.1	<0.1	21	1.86
1540655	Rock	3.35	<0.005	1.5	4.0	1.8	37	<0.1	2.2	4.9	508	2.00	<0.5	<0.5	9.7	59	<0.1	<0.1	<0.1	32	0.66
1540656	Rock	3.30	<0.005	1.5	3.3	2.1	41	<0.1	2.6	5.2	513	1.95	<0.5	0.9	8.7	70	<0.1	<0.1	<0.1	31	1.05
1540657	Rock	3.45	<0.005	1.3	8.4	2.2	40	<0.1	1.9	4.6	503	1.89	<0.5	1.8	8.7	56	<0.1	<0.1	<0.1	28	0.82



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Project: LOO
Report Date: July 25, 2017

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CERTIFICATE OF ANALYSIS

WHI17000192.1

Method Analyte	Unit	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
MDL		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
1540628	Rock	0.028	25	6	0.37	77	0.055	<20	0.99	0.063	0.38	0.2	<0.01	3.7	0.1	<0.05	5	<0.5	<0.2	
1540629	Rock	0.030	26	5	0.34	77	0.030	<20	0.91	0.066	0.28	0.2	<0.01	3.8	<0.1	<0.05	5	<0.5	<0.2	
1540630	Rock	0.041	30	8	0.30	725	0.046	<20	0.81	0.044	0.31	0.2	<0.01	5.3	0.1	<0.05	4	<0.5	<0.2	
1540631	Rock	0.028	23	7	0.20	67	0.009	<20	0.46	0.045	0.13	0.1	<0.01	3.9	<0.1	<0.05	2	<0.5	<0.2	
1540632	Rock	0.026	24	4	0.21	65	0.032	<20	0.61	0.049	0.24	0.4	<0.01	3.1	<0.1	<0.05	3	<0.5	<0.2	
1540633	Rock	0.036	24	12	0.31	125	0.053	<20	0.87	0.061	0.34	0.7	0.01	4.6	0.1	<0.05	4	<0.5	<0.2	
1540634	Rock	0.030	24	7	0.30	109	0.013	<20	0.72	0.038	0.22	0.2	<0.01	2.6	<0.1	<0.05	3	0.6	<0.2	
1540635	Rock	0.029	26	6	0.36	109	0.013	<20	0.79	0.058	0.20	0.3	<0.01	3.1	<0.1	<0.05	4	<0.5	<0.2	
1540636	Rock	0.039	27	10	0.43	195	0.077	<20	0.97	0.046	0.44	0.6	<0.01	4.4	0.1	<0.05	5	<0.5	<0.2	
1540637	Rock	0.029	26	7	0.38	408	0.079	<20	1.00	0.056	0.43	0.4	<0.01	4.2	0.1	<0.05	5	<0.5	<0.2	
1540638	Rock	0.043	23	8	0.66	455	0.105	<20	1.18	0.039	0.59	0.5	<0.01	5.4	0.2	<0.05	5	<0.5	<0.2	
1540639	Rock	0.041	28	10	0.60	171	0.086	<20	1.10	0.051	0.50	0.6	<0.01	4.8	0.1	<0.05	5	<0.5	<0.2	
1540640	Rock	0.014	3	4	10.46	32	0.008	<20	0.23	0.005	0.05	0.2	0.01	0.8	<0.1	<0.05	<1	<0.5	<0.2	
1540641	Rock	0.031	31	6	0.42	113	0.099	<20	1.08	0.072	0.52	0.6	<0.01	3.7	0.2	<0.05	5	<0.5	<0.2	
1540642	Rock	0.029	28	9	0.47	117	0.117	<20	1.07	0.070	0.57	0.7	<0.01	3.8	0.2	<0.05	5	<0.5	<0.2	
1540643	Rock	0.030	23	7	0.41	97	0.075	<20	0.90	0.061	0.38	1.1	<0.01	2.9	0.1	<0.05	5	<0.5	<0.2	
1540644	Rock	0.031	28	8	0.45	235	0.069	<20	0.99	0.066	0.39	0.9	<0.01	3.2	0.1	0.06	5	<0.5	<0.2	
1540645	Rock	0.035	28	18	0.55	90	0.114	<20	1.10	0.049	0.54	1.2	<0.01	4.3	0.2	0.05	6	<0.5	<0.2	
1540646	Rock	0.031	25	8	0.48	91	0.078	<20	1.10	0.046	0.41	0.5	0.04	3.9	0.2	<0.05	6	<0.5	<0.2	
1540647	Rock	0.027	25	9	0.49	87	0.094	<20	1.06	0.064	0.49	0.7	0.02	3.6	0.1	<0.05	7	<0.5	<0.2	
1540648	Rock	0.023	28	8	0.26	568	0.051	<20	0.78	0.065	0.31	0.7	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2	
1540649	Rock	0.026	26	8	0.28	59	0.040	<20	0.74	0.042	0.26	0.5	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2	
1540650	Rock	0.028	27	6	0.38	73	0.061	<20	1.07	0.048	0.37	0.4	0.01	3.9	0.1	<0.05	5	<0.5	<0.2	
1540651	Rock	0.027	25	9	0.43	103	0.093	<20	0.91	0.071	0.46	1.1	0.01	3.3	0.1	<0.05	5	<0.5	<0.2	
1540652	Rock	0.026	27	7	0.29	64	0.059	<20	0.74	0.056	0.32	0.9	<0.01	2.8	0.1	<0.05	4	<0.5	<0.2	
1540653	Rock	0.025	25	9	0.30	51	0.046	<20	0.75	0.060	0.30	0.6	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2	
1540654	Rock	0.031	26	6	0.49	134	0.073	<20	0.97	0.038	0.42	0.4	<0.01	3.3	0.1	<0.05	4	<0.5	<0.2	
1540655	Rock	0.031	25	9	0.45	106	0.121	<20	1.08	0.076	0.60	0.9	<0.01	3.7	0.2	<0.05	5	<0.5	<0.2	
1540656	Rock	0.035	26	9	0.48	133	0.102	<20	1.03	0.056	0.54	0.7	<0.01	3.2	0.2	<0.05	5	<0.5	<0.2	
1540657	Rock	0.036	22	8	0.50	87	0.089	<20	1.09	0.081	0.49	0.5	<0.01	3.5	0.1	<0.05	5	<0.5	<0.2	



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CERTIFICATE OF ANALYSIS

WHI17000192.1

Method	Analyte	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
1540658	Rock	3.08	<0.005	1.5	5.3	1.8	37	<0.1	2.1	4.2	482	1.77	<0.5	<0.5	7.7	48	<0.1	<0.1	<0.1	24	0.88
1540659	Rock	3.18	<0.005	1.4	3.9	2.2	39	<0.1	2.5	4.9	637	2.05	<0.5	1.9	9.6	72	<0.1	<0.1	<0.1	31	1.27
1540660	Rock Pulp	0.08	0.587	6.3	279.1	14.8	50	0.7	112.1	14.8	448	2.80	166.0	322.5	3.3	79	0.3	1.7	0.1	65	1.74
1540661	Rock	3.85	<0.005	1.3	3.7	2.3	40	<0.1	1.6	5.0	616	2.07	<0.5	0.9	10.2	81	<0.1	<0.1	<0.1	34	1.30
1540662	Rock	3.63	<0.005	1.3	4.7	2.8	38	<0.1	2.1	4.3	524	1.87	<0.5	<0.5	7.9	107	<0.1	0.1	<0.1	25	1.46
1540663	Rock	3.24	<0.005	1.4	3.9	3.1	34	<0.1	2.3	4.1	507	1.65	<0.5	<0.5	7.1	58	<0.1	<0.1	<0.1	27	1.25
1540664	Rock	3.23	<0.005	1.3	4.1	2.8	45	<0.1	1.8	3.5	572	1.64	<0.5	1.4	4.2	64	<0.1	<0.1	<0.1	31	1.25
1540665	Rock	2.98	<0.005	1.3	4.6	3.5	43	<0.1	2.3	5.4	606	2.10	<0.5	0.9	7.6	113	<0.1	<0.1	<0.1	33	1.68
1540666	Rock	3.10	<0.005	1.5	5.4	4.3	50	<0.1	3.1	5.8	604	2.14	0.6	1.1	7.6	87	<0.1	<0.1	<0.1	31	1.43
1540667	Rock	2.92	<0.005	1.2	5.6	3.9	46	<0.1	1.6	4.6	557	1.84	<0.5	<0.5	8.3	109	<0.1	0.2	<0.1	27	1.22
1540668	Rock	3.29	<0.005	1.3	5.5	2.5	40	<0.1	2.6	5.0	466	2.01	<0.5	1.0	7.9	65	<0.1	<0.1	<0.1	36	1.09
1540669	Rock	3.38	<0.005	1.4	5.1	3.1	37	<0.1	2.8	5.4	509	1.94	0.6	0.7	8.4	140	<0.1	0.1	<0.1	26	1.62
1540670	Rock	3.08	<0.005	1.3	5.3	2.1	40	<0.1	1.6	4.8	506	1.94	<0.5	<0.5	11.3	73	<0.1	<0.1	<0.1	28	1.07
1540671	Rock	3.33	<0.005	1.5	6.3	2.0	38	<0.1	2.2	5.0	526	2.02	<0.5	1.0	8.6	82	<0.1	<0.1	<0.1	29	1.16
1540672	Rock	1.18	<0.005	1.8	6.0	2.4	19	<0.1	7.4	2.5	253	1.28	<0.5	2.2	13.9	11	<0.1	<0.1	<0.1	10	0.10
1540673	Rock	4.46	<0.005	1.1	5.7	2.9	25	<0.1	3.4	2.0	305	1.01	<0.5	<0.5	11.4	10	<0.1	<0.1	<0.1	8	0.17
1540674	Rock	5.13	<0.005	0.8	3.9	2.8	36	<0.1	4.0	2.4	277	1.10	<0.5	<0.5	5.8	31	<0.1	<0.1	<0.1	17	1.03
1540675	Rock	2.66	0.012	0.6	10.5	3.9	38	<0.1	4.3	4.5	330	1.36	<0.5	1.1	3.7	38	<0.1	<0.1	<0.1	25	1.46



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
1540658	Rock	0.029	21	8	0.47	83	0.084	<20	0.96	0.075	0.43	0.5	<0.01	3.4	0.1	<0.05	5	<0.5	<0.2	
1540659	Rock	0.032	27	9	0.57	71	0.074	<20	1.07	0.069	0.39	0.3	<0.01	4.0	<0.1	<0.05	6	<0.5	<0.2	
1540660	Rock Pulp	0.033	9	109	1.42	126	0.106	<20	2.69	0.317	0.22	1.0	0.03	2.9	<0.1	0.09	6	<0.5	<0.2	
1540661	Rock	0.036	29	7	0.57	108	0.117	<20	1.19	0.064	0.59	0.4	<0.01	4.3	0.2	<0.05	6	<0.5	<0.2	
1540662	Rock	0.030	24	9	0.45	63	0.054	<20	1.03	0.059	0.36	0.3	<0.01	3.7	0.1	<0.05	5	<0.5	<0.2	
1540663	Rock	0.028	22	9	0.43	70	0.062	<20	0.92	0.056	0.37	0.4	<0.01	3.0	0.1	<0.05	5	<0.5	<0.2	
1540664	Rock	0.030	11	9	0.47	135	0.091	<20	1.02	0.074	0.48	0.7	<0.01	2.6	0.1	<0.05	5	<0.5	<0.2	
1540665	Rock	0.041	23	9	0.60	109	0.052	<20	1.14	0.052	0.36	0.3	<0.01	3.6	0.1	<0.05	6	<0.5	<0.2	
1540666	Rock	0.037	24	11	0.66	58	0.055	<20	1.24	0.048	0.35	0.3	0.02	4.3	<0.1	0.06	7	<0.5	<0.2	
1540667	Rock	0.034	25	7	0.48	85	0.096	<20	1.08	0.047	0.47	0.4	0.02	4.4	0.1	0.05	6	<0.5	<0.2	
1540668	Rock	0.032	22	9	0.45	96	0.096	<20	1.12	0.066	0.51	0.6	<0.01	3.8	0.2	0.14	6	<0.5	<0.2	
1540669	Rock	0.034	25	9	0.43	60	0.066	<20	1.09	0.035	0.42	0.3	0.02	3.8	0.1	<0.05	6	<0.5	<0.2	
1540670	Rock	0.032	35	8	0.46	94	0.117	<20	1.20	0.073	0.62	0.6	<0.01	4.1	0.2	<0.05	5	<0.5	<0.2	
1540671	Rock	0.034	23	9	0.47	96	0.114	<20	1.11	0.057	0.59	0.8	<0.01	3.7	0.2	<0.05	5	<0.5	<0.2	
1540672	Rock	0.018	26	12	0.18	67	0.044	<20	0.74	0.064	0.30	0.6	<0.01	2.5	0.1	<0.05	4	<0.5	<0.2	
1540673	Rock	0.015	40	6	0.15	66	0.036	<20	0.63	0.052	0.26	0.8	<0.01	2.1	0.1	<0.05	3	<0.5	<0.2	
1540674	Rock	0.022	14	10	0.22	69	0.032	<20	0.74	0.075	0.27	0.8	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2	
1540675	Rock	0.032	9	13	0.41	79	0.036	<20	0.83	0.050	0.29	0.6	<0.01	2.6	0.1	<0.05	5	<0.5	<0.2	



QUALITY CONTROL REPORT

WHI17000192.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
1540549	Rock	2.76	0.042	1.1	11.8	4.5	35	<0.1	1.8	4.0	446	1.62	0.7	35.0	6.6	59	<0.1	0.2	<0.1	16	2.49
REP 1540549	QC			1.2	11.4	4.4	35	<0.1	2.0	4.2	452	1.62	0.5	38.7	6.5	59	<0.1	0.1	<0.1	16	2.52
1540559	Rock	3.10	<0.005	2.1	7.6	3.2	35	<0.1	1.7	4.2	418	1.75	1.3	4.9	8.5	56	<0.1	0.1	<0.1	21	1.54
REP 1540559	QC		<0.005																		
1540578	Rock	3.77	<0.005	1.3	2.8	5.2	44	<0.1	1.9	4.2	549	1.79	1.0	<0.5	8.1	112	<0.1	<0.1	<0.1	21	2.86
REP 1540578	QC		<0.005																		
1540583	Rock	4.33	<0.005	1.7	6.5	2.3	39	<0.1	1.6	4.6	524	1.94	<0.5	<0.5	8.9	57	<0.1	<0.1	<0.1	34	0.94
REP 1540583	QC			1.8	6.9	2.4	44	<0.1	1.6	4.8	495	1.91	<0.5	1.5	9.1	58	<0.1	<0.1	<0.1	33	0.93
REP 1540618	QC			1.2	2.7	3.4	27	<0.1	2.0	2.5	380	1.27	<0.5	1.0	11.1	33	<0.1	<0.1	<0.1	12	2.33
1540633	Rock	3.23	<0.005	1.2	12.1	3.1	40	<0.1	2.9	4.8	496	1.93	1.0	2.4	8.1	74	<0.1	0.1	0.2	24	1.68
REP 1540633	QC		<0.005																		
REP 1540652	QC		<0.005																		
REP 1540652	QC			2.0	33.0	3.4	36	<0.1	1.6	2.9	426	1.35	<0.5	2.0	10.8	37	<0.1	<0.1	0.6	14	1.06
Core Reject Duplicates																					
1540550	Rock	2.64	0.225	1.5	31.3	3.6	27	0.2	1.6	3.4	563	1.40	<0.5	484.8	7.6	36	<0.1	<0.1	0.1	9	2.62
DUP 1540550	QC		0.161	1.9	34.3	3.9	30	0.1	1.9	3.3	585	1.39	<0.5	109.9	7.5	37	<0.1	<0.1	0.1	9	2.64
1540584	Rock	4.14	<0.005	1.6	3.8	3.1	38	<0.1	2.9	5.1	576	1.97	<0.5	0.6	10.0	75	<0.1	<0.1	<0.1	32	1.34
DUP 1540584	QC		<0.005	1.5	3.5	2.8	34	<0.1	2.6	4.5	556	1.95	<0.5	2.1	9.7	69	<0.1	<0.1	<0.1	32	1.34
1540618	Rock	2.97	<0.005	1.2	2.9	3.3	25	<0.1	2.0	2.9	397	1.29	<0.5	0.6	11.1	33	<0.1	<0.1	<0.1	12	2.39
DUP 1540618	QC		<0.005	1.3	3.5	3.4	27	<0.1	2.2	2.7	391	1.30	<0.5	0.7	11.3	33	<0.1	<0.1	<0.1	12	2.33
1540652	Rock	3.39	<0.005	2.1	33.0	3.3	34	<0.1	1.9	3.1	428	1.36	<0.5	2.0	10.7	37	0.1	<0.1	0.5	14	1.08
DUP 1540652	QC		<0.005	2.3	33.7	3.4	35	<0.1	3.1	3.0	430	1.37	<0.5	1.3	10.8	38	<0.1	<0.1	0.6	14	1.07
Reference Materials																					
STD DS10	Standard			13.9	158.3	144.7	348	1.9	76.2	12.8	859	2.71	46.2	150.5	7.7	70	2.7	8.5	11.8	42	1.05
STD DS10	Standard			13.7	156.6	144.8	362	1.7	74.8	13.2	887	2.78	45.8	85.6	7.0	66	2.7	9.3	12.0	43	1.07
STD DS10	Standard			13.7	152.0	149.7	370	1.9	74.1	12.9	870	2.74	43.0	46.9	7.5	68	2.5	8.5	13.3	42	1.07
STD DS10	Standard			13.9	150.4	155.0	353	1.9	74.3	12.4	876	2.71	46.8	48.1	7.6	65	2.5	9.0	12.4	43	1.07
STD OREAS45EA	Standard			1.6	707.1	13.7	31	0.3	386.8	51.8	383	19.93	11.1	51.2	9.9	4	<0.1	0.3	0.2	310	0.03



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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																			
1540549	Rock	0.030	20	5	0.17	62	0.009	<20	0.71	0.048	0.21	0.2	<0.01	2.9	<0.1	<0.05	3	<0.5	<0.2
REP 1540549	QC	0.030	21	5	0.16	65	0.009	<20	0.72	0.048	0.21	0.1	<0.01	2.9	<0.1	<0.05	3	<0.5	<0.2
1540559	Rock	0.031	24	5	0.27	60	0.053	<20	0.82	0.039	0.35	0.2	<0.01	3.9	0.1	<0.05	4	<0.5	<0.2
REP 1540559	QC																		
1540578	Rock	0.032	24	8	0.50	252	0.050	<20	0.95	0.044	0.35	0.3	0.01	3.9	0.1	<0.05	4	<0.5	<0.2
REP 1540578	QC																		
1540583	Rock	0.033	25	8	0.48	135	0.125	<20	1.14	0.078	0.67	1.2	<0.01	4.1	0.2	<0.05	6	<0.5	<0.2
REP 1540583	QC	0.033	25	8	0.47	138	0.127	<20	1.16	0.077	0.67	1.2	<0.01	4.2	0.2	<0.05	6	<0.5	<0.2
REP 1540618	QC	0.020	25	4	0.15	210	0.032	<20	0.72	0.001	0.26	0.4	<0.01	2.5	0.1	<0.05	3	<0.5	<0.2
1540633	Rock	0.036	24	12	0.31	125	0.053	<20	0.87	0.061	0.34	0.7	0.01	4.6	0.1	<0.05	4	<0.5	<0.2
REP 1540633	QC																		
REP 1540652	QC																		
REP 1540652	QC	0.026	27	7	0.29	66	0.058	<20	0.78	0.065	0.33	0.9	<0.01	3.1	0.1	<0.05	4	<0.5	<0.2
Core Reject Duplicates																			
1540550	Rock	0.028	23	5	0.10	86	0.003	<20	0.56	0.034	0.22	0.2	0.05	2.0	<0.1	<0.05	2	<0.5	<0.2
DUP 1540550	QC	0.030	24	4	0.11	85	0.004	<20	0.52	0.030	0.21	0.3	0.06	1.9	<0.1	<0.05	2	<0.5	0.2
1540584	Rock	0.032	30	11	0.46	122	0.119	<20	1.10	0.063	0.62	0.8	<0.01	4.0	0.2	<0.05	5	<0.5	<0.2
DUP 1540584	QC	0.030	27	9	0.45	117	0.110	<20	1.06	0.061	0.61	0.8	<0.01	4.0	0.2	<0.05	5	<0.5	<0.2
1540618	Rock	0.019	25	5	0.15	223	0.033	<20	0.73	0.002	0.27	0.4	<0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
DUP 1540618	QC	0.021	25	5	0.16	222	0.033	<20	0.79	0.003	0.27	0.4	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
1540652	Rock	0.026	27	7	0.29	64	0.059	<20	0.74	0.056	0.32	0.9	<0.01	2.8	0.1	<0.05	4	<0.5	<0.2
DUP 1540652	QC	0.026	27	8	0.29	67	0.059	<20	0.78	0.066	0.33	0.8	<0.01	2.9	0.1	<0.05	4	<0.5	<0.2
Reference Materials																			
STD DS10	Standard	0.072	17	55	0.77	409	0.085	<20	1.06	0.072	0.34	2.9	0.27	3.0	5.0	0.27	4	2.0	4.9
STD DS10	Standard	0.077	17	56	0.79	412	0.084	<20	1.06	0.071	0.34	3.5	0.27	2.9	5.0	0.29	4	1.5	4.6
STD DS10	Standard	0.076	18	53	0.77	429	0.085	<20	1.06	0.072	0.34	2.9	0.28	2.8	5.2	0.27	5	2.3	4.7
STD DS10	Standard	0.075	18	55	0.77	434	0.085	<20	1.06	0.072	0.34	3.0	0.29	2.9	5.2	0.27	4	2.8	4.9
STD OREAS45EA	Standard	0.025	7	812	0.09	143	0.101	<20	3.23	0.019	0.05	<0.1	<0.01	73.8	<0.1	<0.05	12	1.4	<0.2



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	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
STD OREAS45EA	Standard		1.5	699.7	13.6	30	0.2	382.4	50.6	393	20.09	11.1	58.0	9.9	4	<0.1	0.4	0.2	309	0.03	
STD OREAS45EA	Standard		1.4	685.3	13.8	30	0.3	373.3	48.7	387	19.82	10.8	53.4	9.6	4	<0.1	0.3	0.3	307	0.03	
STD OREAS45EA	Standard		1.5	687.7	14.3	30	0.2	384.4	46.9	394	20.81	11.1	52.9	10.0	4	<0.1	0.4	0.3	314	0.03	
STD OXC145	Standard	0.206																			
STD OXC145	Standard	0.210																			
STD OXC145	Standard	0.212																			
STD OXC145	Standard	0.209																			
STD OXH122	Standard	1.210																			
STD OXH122	Standard	1.235																			
STD OXH122	Standard	1.185																			
STD OXH122	Standard	1.271																			
STD OXN117	Standard	7.606																			
STD OXN117	Standard	7.524																			
STD OXN117	Standard	7.500																			
STD OXN117	Standard	7.633																			
STD DS10 Expected			13.6	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	
STD OREAS45EA Expected			1.6	709	14.3	31.4	0.26	381	52	400	23.51	10.3	53	10.7	3.5	0.03	0.32	0.26	303	0.036	
STD OXN117 Expected		7.679																			
STD OXC145 Expected		0.212																			
STD OXH122 Expected		1.247																			
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			



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		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
STD OREAS45EA	Standard	0.028	7	834	0.09	143	0.103	<20	3.16	0.019	0.05	<0.1	0.01	76.4	<0.1	<0.05	12	<0.5	<0.2	
STD OREAS45EA	Standard	0.026	7	815	0.09	138	0.096	<20	3.09	0.019	0.05	<0.1	<0.01	76.9	<0.1	<0.05	13	1.2	<0.2	
STD OREAS45EA	Standard	0.026	7	859	0.09	142	0.098	<20	3.22	0.019	0.05	<0.1	<0.01	75.3	<0.1	<0.05	13	1.1	<0.2	
STD OXC145	Standard																			
STD OXC145	Standard																			
STD OXC145	Standard																			
STD OXC145	Standard																			
STD OXH122	Standard																			
STD OXH122	Standard																			
STD OXH122	Standard																			
STD OXH122	Standard																			
STD OXN117	Standard																			
STD OXN117	Standard																			
STD OXN117	Standard																			
STD OXN117	Standard																			
STD DS10 Expected		0.0765	17.5	54.6	0.775	412	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3	2.3	5.01	
STD OREAS45EA Expected		0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053			78	0.072	0.036	12.4	0.78	0.07	
STD OXN117 Expected																				
STD OXC145 Expected																				
STD OXH122 Expected																				
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank																			
BLK	Blank																			
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		WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
Prep Wash																					
ROCK-WHI	Prep Blank	<0.005	0.7	7.5	1.6	36	<0.1	1.2	3.7	507	1.77	0.9	<0.5	2.3	24	<0.1	<0.1	<0.1	22	0.56	
ROCK-WHI	Prep Blank	<0.005	0.7	6.6	1.1	38	<0.1	0.9	4.0	560	1.78	0.9	<0.5	2.2	24	<0.1	<0.1	<0.1	25	0.58	



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		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
Prep Wash																			
ROCK-WHI	Prep Blank	0.041	6	3	0.44	62	0.086	<20	0.93	0.117	0.12	0.1	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
ROCK-WHI	Prep Blank	0.038	6	2	0.50	61	0.096	<20	1.03	0.132	0.13	0.1	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2