

We are committed to providing [accessible customer service](#).

If you need accessible formats or communications supports, please [contact us](#).

Nous tenons à améliorer [l'accessibilité des services à la clientèle](#).

Si vous avez besoin de formats accessibles ou d'aide à la communication, veuillez [nous contacter](#).



**2021 DIAMOND DRILLING REPORT
007 ZONE
SUGAR ZONE PROPERTY
DAYOHESSARAH LAKE AREA
WHITE RIVER, ONTARIO**

NTS 42C/ 10, 11, 14 and 15

Latitude 48°48' N, Longitude 85°10' W

**Dates Work Performed
September 17, 2021 to January 21, 2022**

for

**Harte Gold Corporation
161 Bay Street
Suite 2400
Toronto, Ontario
M5J 2S1**

TABLE OF CONTENTS

1.0	Introduction	1
2.0	Property Location and Description.....	2
2.1	Location and Access.....	2
2.2	Description of Mining Claims.....	3
2.3	Physiography and Vegetation	3
3.0	Historical Work	5
4.0	Geological Setting	13
4.1	Regional Geology	13
4.2	Property Geology	14
5.0	Mineralization	17
5.1	Sugar Zone.....	17
5.2	007 Zone	18
6.0	2021 Diamond Drilling	18
6.1	Sample Collection, Preparation, Analyses and Security.....	18
6.2	Laboratory Methods	19
6.3	2021 007 Drilling.....	23
6.4	Results.....	23
7.0	Conclusions and Recommendations	24
8.0	Costs.....	24
9.0	References.....	29
10.0	Statement of Qualifications.....	30

LIST OF FIGURES

Figure 1 - Property Location.....	2
Figure 2 - Claim Position, Regional Geology and Occurrences.....	4
Figure 3 - Regional Geology	14
Figure 4 - Property Geology	16

LIST OF TABLES

Table 1 – 007 Zone – Drill Hole Summary Table.....	23
Table 2 – 007 Zone – Assay Results Per Hole.....	24
Table 3 – 007 Zone – Summary of Costs.....	24
Table 4 – 007 Zone – Cost per Claim.....	25
Table 5 – 007 Zone – DDH Program Cost Summary.....	26
Table 6 – 007 Zone – Analytical Cost Summary.....	28

APPENDICES

Appendix A – Property Claims List

Appendix B – Geological Legend

Appendix C – 007 Zone – 2021 Drill Hole Logs

Appendix D – 007 Zone – 2021 Drill Hole Cross Sections

Appendix E – 007 Zone – 2021 Drill Hole Plans

Appendix F – 007 Zone – 2021 Actlabs Assay Certificates

Appendix G – 007 Zone – 2021 Actlabs Invoices

Appendix H – 007 Zone – 2021 G4 Invoices

Executive Summary

Between September 17, 2021 to October 17, 2021 Harte Gold Corporation performed a 7-hole, 2,349-meter diamond drill program at the 007 Zone. The 007 Zone is located approximately 8.6 kilometers northwest of Harte Gold's Sugar Zone Mine on the Sugar Zone property. The property is located in the Dayohessarah Lake area, and is situated northeast of White River, Ontario. One drill rig (Drill G4-13) was supplied by G4 Drilling Canada Ltd. to perform drilling.

The intent of the 2021 drill program at the 007 Zone was to drill test several high-grade gold values collected from quartz veins hosted in mafic volcanics found in the area. A total of \$465,488 was spent on this drill program which included costs such as drilling, assays and salaries, etc. The average cost per meter was \$198.16.

A grade of 0.68 g/t gold over 0.72 m from 81.80-82.52 m was intersected in 007-21-02. No significant gold values were returned from the remaining holes drilled.

The Sugar Zone property lies within in the Dayohessarah Greenstone Belt ("DGB"). The DGB is part of the larger, east trending Schreiber-White River Belt of the Wawa Subprovince of the Superior Craton. The DGB is situated between two larger greenstone belts; the Hemlo Greenstone Belt to the west and the Kabinakagami Greenstone Belt to the east. The DGB has an active history of exploration dating back to 1969 when Canex Aerial Exploration Ltd. drilled three holes on the property. Exploration ramped up after the discovery of Hemlo, when Pezamerica Resources commenced geophysics and drilling.

In 1998, Harte Gold Corp. entered into an option agreement on most of the unpatented mining claims comprising the Sugar Zone property, including the Sugar Zone. Harte subsequently entered into a Joint Venture agreement with Corona Gold Corporation and in 2012 Harte Gold acquired Corona's portion of the Sugar Zone property to become the 100% owner and operator of all the claims. Harte Gold subsequently conducted extensive advanced exploration at the Sugar Zone including a successful 70,000 tonne bulk sample in 2017. After a successful development and commissioning period commercial production was officially declared for the Sugar Zone Mine on January 8th, 2019.

1.0 Introduction

The 007 Zone is located along the northwestern corner of the Sugar Zone property approximately 8.6 kilometers northwest of the Sugar Zone Mine (Figure 2). The 007 Zone one of several gold occurrences identified on the Sugar Zone property. The property is located in the Dayohessarah Greenstone Belt. This greenstone belt is part of the larger, east trending Schreiber-White River Belt of the Wawa Subprovince of the Superior Craton (Figure 3).

This report will summarize and discuss the results of the diamond drill program conducted between September 17, 2021 to October 17, 2021 by Harte Gold Corp. on the Sugar Zone property. The drill report was written from January 15-21, 2022.

The 007 Zone holes were drilled on claims permitted by Exploration Permits PR-18-000297.

All UTM coordinates are in NAD 83, Zone 16U projection.

2.0 Property Location and Description

2.1 Location and Access

The Sugar Zone property is situated approximately 25 km northeast of the town of White River (Trans-Canada Highway No. 17) and 60 km east of the Hemlo gold camp. The property is approximately equidistant from Sault Ste. Marie to the south-east and Thunder Bay to the west (Figure 1). The overall property encompasses NTS zones 42C/ 10, 11, 14 and 15 and the gold mineralized occurrences are exposed at Latitude 48°48' north, Longitude 85°10' west. The property covers parts of the Odlum, Strickland, Gourlay, Tedder, Hambleton, Cooper, Nameigos, Abraham and Bayfield Townships, and falls within the Sault Ste. Marie Mining Division.

The property can be accessed via a series of logging roads and drill trails extending north from the community of White River. Access is also available by way of float plane, based in White River via Dayohessarah Lake or Hambleton Lake, and by helicopter based in Wawa or Marathon.

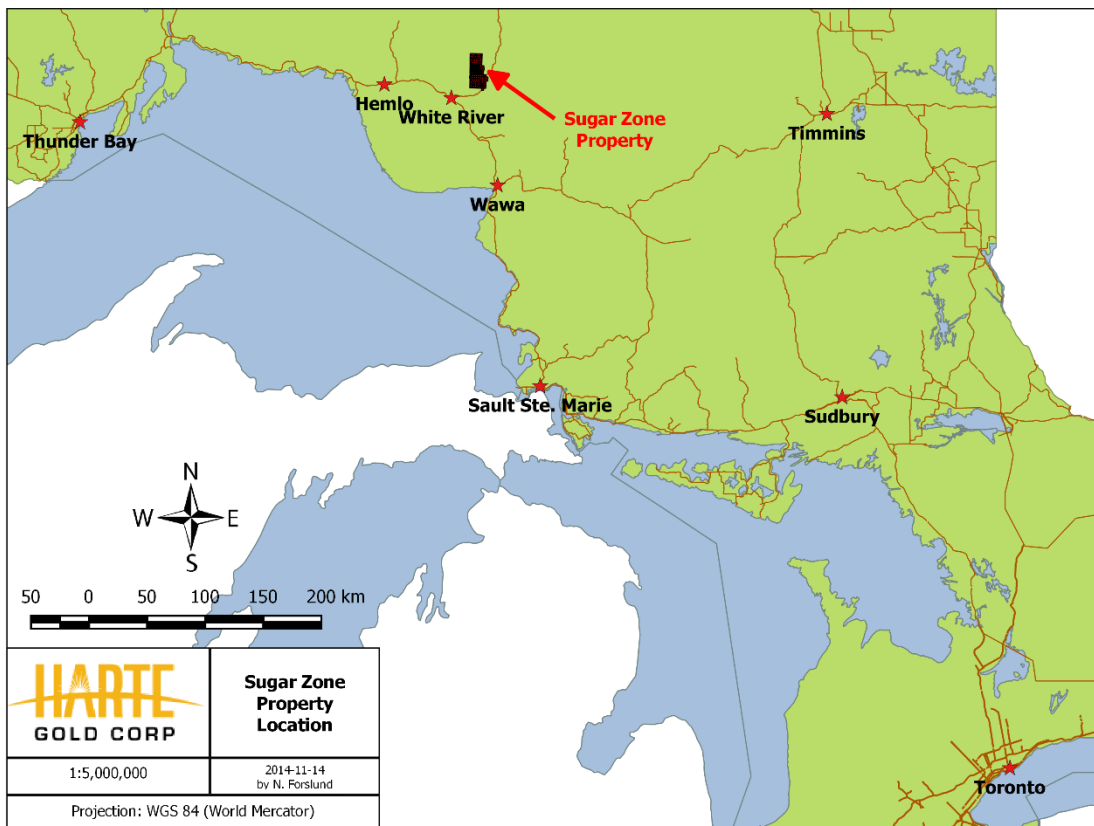


Figure 1 - Property Location

The western and southern portions of the property are accessible via a series of logging roads controlled by White River Forest Products Limited. Road No. 100 extends north from the western end of White River. Road No. 200 intersects Road No. 100 approximately 20 km from Highway 17 and provides access to the western and southern portions of the property. Road No. 300 intersects Road No. 100 approximately 36 km from Highway 17 and provides access to the very

northern portion of the property. Road No. 305 intersects Road No. 300 approximately 6 km from Road No. 100 and provides access to northern and eastern parts of the property. Road access to within 400 m of the Sugar Zone is available via a small road heading south and southwest from Road No. 305 for 8.8 km. From there, access to the Sugar Zone is available via all-terrain or tracked vehicles in the summer, and snowmobiles, tracked vehicles and trucks in the winter. The distance from White River to the Sugar Zone is approximately 60 km by road.

Areas surrounding Dayohessarah, Hambleton, Strickland and Pike Lakes are designated by the Ontario Ministry of Natural Resources as 'Restricted Access'. Locked gates on Road No. 200 and Road No. 305 control vehicular access in order to prevent access to remote lodge operations on two lakes. Permits are required for road access to most of the Sugar Zone property for mineral exploration purposes.

2.2 Description of Mining Claims

The Sugar Zone property consists of four mining leases comprising 1467.26 hectares, including 81 boundary cell claims, 47 single cell claims, 197 multi-cell claims (Appendix A). All claims of the Sugar Zone property are held in the name of Harte Gold Corporation. The property boundaries, claim lines, and location of the 007 Zone is shown in Figure 2.

There are two mining alienations which border parts of Harte's current claim block. The largest (W-LL-C1521) lies to the east of the current claim area and shortly borders claim 4260617 on the east, and Hwy 631 on the west. The second alienation (No. 2847) lies completely within Harte's current claim block, west of Dayohessarah Lake. Surface rights are held by the Crown and timber cutting rights are held by White River Forest Products Ltd.

In 1998, Harte Gold Corp. (Harte) entered into an option agreement on most of the unpatented mining claims comprising the Sugar Zone property, including the Sugar Zone. Harte subsequently entered into a Joint Venture agreement with Corona Gold Corp.

The original claims are subject to a 3.5% net smelter royalty ("NSR"). The Joint Venture participants, namely Corona (51%) and Harte (49%), have the option of acquiring 1.5% of the 3.5% NSR for \$1.5 million, in proportion to their respective interest and have, in addition, the right of first refusal on the remaining 2.0% NSR.

Harte and Corona entered into an Option Agreement (the "Corona Option") dated May 28, 2010, entitling Harte to acquire Corona's 51% interest in the Sugar Zone Joint Venture upon completion of certain conditions. Effective March 10, 2010, Harte became the Operator of the Sugar Zone Joint Venture for as long as the Corona Option remained in good standing. Harte completed all required conditions and as of May 23, 2012 acquired Corona's 51% interest to become the 100% owner and operator of all of the claims which were previously part of the Sugar Zone Joint Venture.

2.3 Physiography and Vegetation

The climate is northern boreal, with short hot summers and cold, snowy winters. Some field operations, such as drilling, can be carried out year-round while other operations, such as

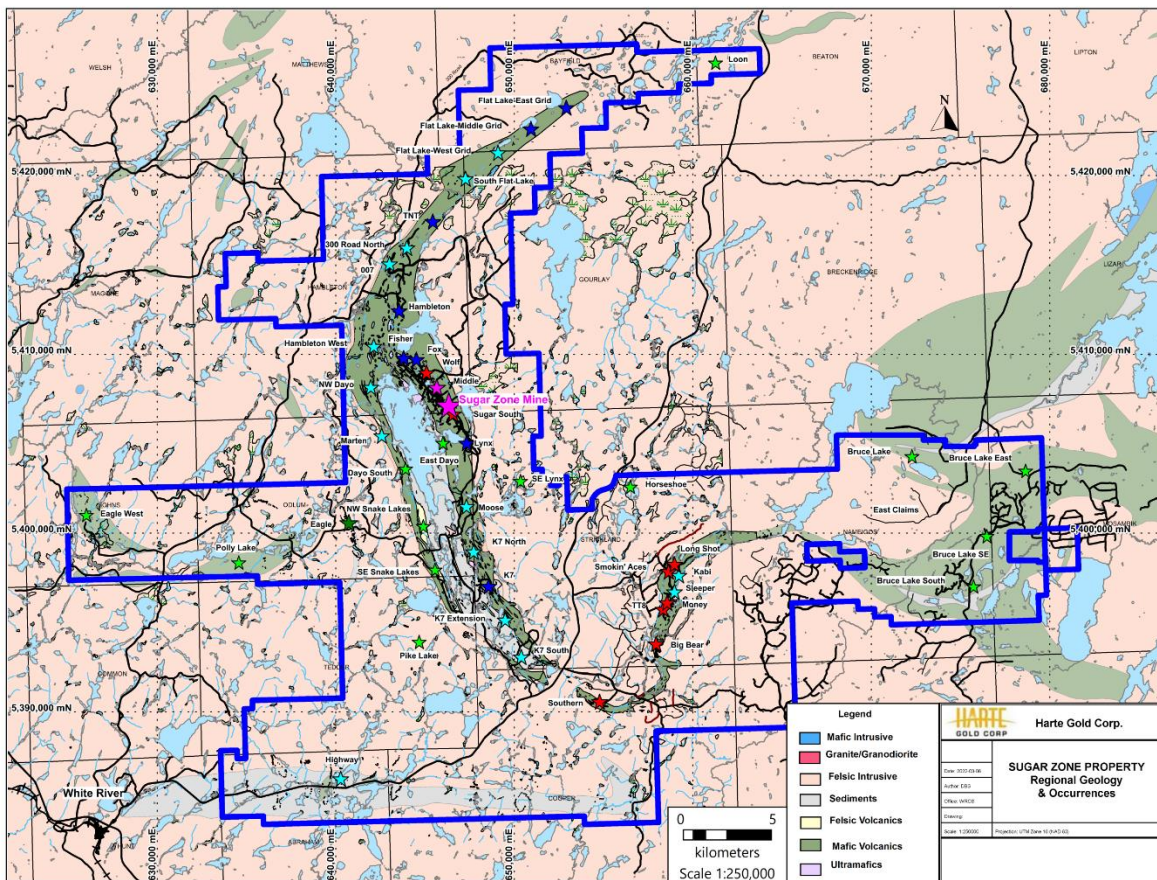


Figure 2 – Sugar Zone Property, Regional Geology and Occurrences

prospecting and mapping, can only be carried out during the late spring, summer and early autumn months.

The temperatures can range from -35°C in the winter to $+30^{\circ}\text{C}$ in the summer; though the mean temperatures are around -20°C to $+20^{\circ}\text{C}$. Rainfall is about 727 mm annual average, with the wettest month being September (120 mm average). Snow is abundant, often reaching several metres with December and January having the heaviest snowfall (about 80 cm). Snow is on the ground by late October and the ice begins to thaw on the lakes by April.

The topography on the property varies from moderate to rugged, with lake levels generally at 390 m above sea level, and occasional hills up to 480 m elevation. The overburden is generally between 0 to 20 m deep on the property, with occasional boulder terrain, and normally approximately 2 to 3 m overlying the Sugar Zone. Vegetation is boreal, with jack pine, fir, poplar and birch occupying dry uplands and cedar, tamarack and spruce growth on more poorly drained terrain.

3.0 Historical Work

Exploration for gold and base metals has been conducted on the Dayohessarah property since 1969. After over 10 years of very little work, exploration started to pick up on the property again in 1983, after the discovery of the Hemlo Gold camp. A complete timeline of mineral exploration/mine site development on the DGB is presented below.

1969 Canex Aerial Exploration Ltd. drilled three diamond drill holes in the vicinity of the mafic/ultramafic intrusives and flows near the north end of Dayohessarah Lake. Results include an intersection of 0.326% Ni and 0.08% Cu over 5 ft. in metagabbroic rocks.

1983-1986 Pezamerica Resources Limited conducted an exploration program which included an airborne Mag and EM survey that outlined thirty-one (31) geophysical anomalies in the area. Twenty-four (24) of these anomalies were investigated by Teck Exploration on behalf of Pezamerica. Teck Exploration drilled nine airborne geophysical targets based on coincidental soil gold anomaly trends. In all cases, the airborne anomalies were explained by pyrite/pyrrhotite rich horizons within felsic volcanics. Hole PZ-6 returned appreciable amounts of sphalerite mineralization (0.47% Zn over 2.8 feet). None of the assayed core returned significant gold values.

1990 Most of the DGB is staked by a prospecting syndicate.

1991 The property is optioned from the prospectors by Hemlo Gold Mines Inc. Initial prospecting uncovered the gold-bearing Sugar Zone deposit. Based on bedrock exposure and trenching, the Sugar Zone was traced for 750 m, and a ground IP survey outlined the Sugar Zone structure extending for 1,500 meters.

1993 Hemlo Gold conducted a preliminary diamond drill program to test the Sugar Zone for economic gold mineralization. A grid was cut with a 6-km baseline and tie-lines ranging in spacing between 100 m and 1,000 m. Six diamond drill holes were completed totaling 800 m. All drill holes intersected significant gold mineralization in the Sugar Zone. A small trenching program is initiated on the Sugar Zone.

1994 Hemlo Gold proceeds with initial geological mapping, prospecting and a follow-up drill program. Fifteen diamond drill holes are completed on the property, totaling 2,416 m. Eight of the drill holes intersected the Sugar Zone. An I.P. survey is completed over the southern portion of the property, and a Mag survey is completed over the entire grid. After the exploration program, the property was returned to the prospecting syndicate who initially staked the ground, due to legal reasons.

1998-1999 Most of the property is optioned from the prospector's syndicate. The mining claims were subject to a Joint Venture agreement between Corona Gold Corporation (51%) and Harte Gold Corp. (49%). Corona was the operator. The initial 313 claims are subject to a 3.5% net smelter royalty ("NSR"), and the Joint Venture participants have the option to acquire 1.5% of the 3.5% NSR for \$1.5 million, and have the right of first refusal on the remaining 2.0% NSR.

Corona carries out an extensive exploration program. The existing grid was rehabilitated and new grid lines established east of Dayohessarah Lake. In total, 96.1 km of grid lines with 100 m spacing oriented at 320° azimuth are cut over the Sugar Zone area. An oriented soil sampling program is carried out on the grid, as well as mapping and sampling. Prospecting was limited to the Sugar Zone and extensions of the Sugar Zone to the south and to the north. A surface power

trenching program is conducted on parts of the Sugar Zone and six trenches were excavated, washed, channel sampled and mapped in detail. A detailed Mag-VLF and reconnaissance gradient I.P. survey is performed on the property.

A diamond drilling program totaling 9,937 m of NQ core in 53 holes is completed, mostly into and around the Sugar Zone. The drill holes cover 3 km of strike length and intersect the zone at approximately 50 m spacing at shallow depths. A secondary purpose of the program was to follow-up low grade mineralization encountered in previous drilling by Hemlo Gold and to test previously untested/poorly tested I.P. anomalies west of the Sugar Zone and east of Dayohessarah Lake.

Preliminary Mineral Resource estimates of the Sugar Zone mineralization in the 12000 N to 13100 N area were prepared, based on the drilling program noted above. Another estimate was made, using revised and refined criteria and polygonal methods, in the spring 1999, following additional data evaluation (Drost et Al, 1998).

2003-2004 Corona conducts a diamond drilling program totaling 7,100 m in 26 holes. The drill program mostly intersects the Sugar Zone and is successful in its purpose of expanding the strike and dip extent of the zone, as well as increasing the level of confidence in the continuity of mineralization by in-fill drilling.

2004 Corona conducts another diamond drilling program totaling 3,588 m in 11 holes. The program is successful in increasing the mineralization extent of the Sugar Zone, as well as increasing the defined Sugar Zone depth to a vertical depth of 300 m. A new Mineral Resource estimate was completed.

2008 A helicopter airborne geophysical survey was flown over the property by Fugro Airborne Surveys Corp., under contract from Corona. The survey used a DIGHEM multi-coil, multi-frequency electromagnetic system along with a high sensitivity cesium magnetometer. A total of 1,917 line-km was flown. It was recommended by Dave Hunt P.Geo. that compilation of historic exploration data on the remainder of the property be followed by a program of reconnaissance mapping and prospecting to evaluate the Fugro airborne conductor axes on the ground, as well as to identify additional target areas extending both north and south of existing Sugar Zone mineralization and elsewhere on the property.

2009 During March, Corona undertook a drilling program totaling 2,020 m in 10 holes. The purpose of the program was to test airborne electromagnetic conductors, magnetic anomalies, induced polarization chargeability anomalies and geologically defined possible extensions to the north and the south of the known Sugar Zone mineralization.

During July to September, a prospecting, reconnaissance geological mapping and channel sampling program was undertaken on geophysical targets outlined by the Fugro airborne geophysical anomalies. Highlights included sampling of a float rock (Peacock Boulders) returning a value of 87.80 g/t Au, as well as grab samples from quartz veining east of the Sugar Zone returning values of 30.40 and 9.04 g/t Au.

2010 Harte Gold Corp. initiated its first drilling program. During March, a diamond drill program totaling 2,097.31 m in 12 holes, two of which were aborted before reaching the Sugar Zone. The program was successful in locating a high-grade area of the Sugar Zone located near surface

and directly under a series of surface trenches. The drill program was also successful in determining that the Sugar Zone has significant mineralization below 300 m depth.

Ground IP is completed over a grid totaling 20,475 meters. Chargeability from the survey outlines a potential zone north of the Peacock Boulder discovery of 2009. 5 Trenches totaling 1,850 square meters were completed over and around the newly discovered Wolf Zone.

A total of 5,387.94 m of diamond drilling totaling 33 drill holes was completed on the newly discovered Wolf Zone. Results outlined a small, high grade zone with a strike length up to 600 m and a depth up to 250 meters.

2011 Between May and June 2011 two more grids totaling 60,800 meters were completed over the fold nose near the north end of the of the Sugar Zone property, on the west side of Hambleton Lake. Follow up ground IP was completed on the grids by JVX Geophysical Surveys. A small 5,200-meter grid was also cut, and ground IP completed on the west side of Dayohessarah Lake, in an attempt to outline a Gossan Zone.

A Bore Hole survey was completed In August 2011 on eleven deep drill holes in the Sugar Zone. The Bore Hole survey outlined several conductors in the area. An airborne VTEM survey was completed at the end of August by Geotech Ltd. The survey covered the entire property and outlined 5 large moderate to strong conductive areas of interest. The most exciting result of the survey was a potential copper-nickel ore body below the surface, under the komatiite volcanics at the northern end of Dayohessarah Lake.

There were two main drill programs in 2011. The first was on the Sugar Zone, between February 11 to April 13, and again between July 17 and November 24, 2011, and totaled 7,885.74 meters of diamond drilling in 27 drill holes. The drilling was designed to expand the resource estimate both at depth, and to upgrade inferred resource to indicated resource. The second drill program targeted IP anomalies on the Fold Nose grid. A total of 3,430.93 meters were drilled in 15 diamond drill holes. Most IP anomalies were explained by sedimentary layers, and no significant intercepts were observed.

2012 In April 2012, Geotech Ltd. carried out a helicopter borne geophysical survey over the Sugar Zone property. The program was completed as an extension of the airborne VTEM survey conducted in 2011 which totaled 302 line-km of data over the northern parts of Dayohessarah Lake and western parts of Hambleton Lake and the shoreline. The 2012 program totaled 1,153 line-km of data essentially covering the rest of the Dayohessarah Greenstone Belt.

In an effort to understand the source of the Peacock boulders, thin sections of three Peacock boulder samples were sent to Pleason Geoscience for analysis. The boulders returned assay values of 87.30 g/t Au, 52.80 g/t Au and 37.20 g/t Au. It was noted that the mineralogy and microtextures of the samples were similar to gold-bearing zones at the Hemlo and Musselwhite gold camps.

Between October 30, 2012 and November 2, 2012 four mechanical trenches were made along the surface exposure of the Sugar Zone. The purpose of the trenches was to expose enough high-grade material from the Lower Zone of the Sugar Zone for a reasonably representative blasting program. The total area of the trenches is 1,799 square meters.

During the period January 21, 2012 to July 29, 2012 a total of 6,283.92 meters were drilled in 12 diamond drill holes targeting the Sugar Zone. The drilling was carried out by Major Drilling Group

International Inc. The purpose of the diamond drilling program was to expand the current Mineral Resource Estimate of the Sugar Zone at vertical depths below 400 m, and to test the continuity, grade and width of the zone at 1,000 m vertical depth. The program was successful in defining Au mineralization in both the Upper and Lower Zones with significant assay results ranging from 0.56 g/t Au to 162 g/t Au.

An additional 2 drill holes targeted an IP north-east of Dayohessarah Lake. These exploration holes totaled 375 meters and did not return any significant gold values.

Two holes totaling 333 meters were drilled targeting an extension of the Wolf Zone. No significant assays were returned.

2013 Exploration in the 2013 season included a short prospecting program, where 46 samples were taken and analyzed for Au using fire assay. Two samples returned Au values of 10.2g/t and 0.73 g/t.

Four holes were drilled on the Halverson Zone, totaling 1103.28m These holes targeted Cu-Ni mineralization discovered in 2011 by a VTEM survey.

An additional 17 diamond drill holes totaling 1356m were drilled to decrease the spacing between holes in a high-grade portion of the Sugar Zone Lower Zone (called Jewelry Box). Significant intervals from this program ran from 2.77 g/t Au to 28.5 g/t Au over widths from 0.35m to 8.27m.

Harte Gold continued moving forward with the permitting and optimization of the advance exploration 70,000 tonne bulk sample at the Sugar Zone. Confirmation drilling at the Jewelry Box Zone (JBZ) returned significant high-grade gold assays and enabled Harte Gold to re-design the bulk sample target areas in order to test this high-grade portion of the Sugar Zone deposit. The JBZ lies close to surface and can be developed quicker and more cost effectively.

Harte Gold also completed road construction to provide highway access to the property and survey work associated with taking certain of the Sugar Zone property mining claims to lease. Harte Gold is also in the process of negotiating contract mining and off-site milling agreements.

Harte Gold completed a regional exploration program and Induced Polarization (IP) survey with the objective of finding the source of the high-grade Peacock Boulders which returned gold values up to 87 g/t. Drill targets have been identified and are scheduled to be drilled during the summer of 2014.

2014 Harte Gold continued to advance the Sugar Zone “Advanced Exploration and Bulk Sample Project” during 2014. Efforts focused on completing the permitting associated with the amended closure plan, completing the road to the portal site and overall optimization of the mining plan developed in the 2012 Preliminary Economic Assessment.

Additional confirmation drilling at the Jewelry Box Zone (JBZ), the target area for the bulk sample, returned significant high-grade gold assays providing additional confirmation to mining contractors developing bids for the project.

2014 was a busy year of exploration, Induced Polarization and magnetometer surveys were conducted over a majority of the core mining claims and generated numerous drill targets. Follow up ground proofing and drill programs identified the Wolf Zone as the source of the high-grade Peacock Boulders and lead to the discovery of the Contact Zone, where a sericite schist was

found to have Hemlo-style geochemistry and anomalous gold as well as a third mineralized zone known as the Footwall Zone and located 50 meters east of the Sugar Zone deposit.

During 2015 Harte Gold completed additional exploration drilling that extended the Sugar Zone deposit 300 meters south of its previously defined boundary.

Harte Gold completed additional construction work on the site access road linking the Sugar Zone deposit to Highway 631 and completed the lease application process for certain mining claims that comprise the Sugar Zone property. The leases cover the Sugar Zone deposit and immediately surrounding area and are a requirement for commercial production.

2015 2015 was a pivotal year for Harte Gold as efforts to move the project ahead during a challenging mining market finally culminated in October with the first portal blast at the Sugar Zone. Since October the ramp was advanced to over 850 meters in length and begun shipping ore to Barrick Gold for custom milling from ore developed on the 375 level.

With production under our bulk sampling program well underway, the commercial permitting process has begun. This process is expected to take 12-18 months which may coincide well with completion of the bulk sample program. During the intervening period, the plan is to continue with underground development which would include the ramp, underground infrastructure including ventilation and setting up stopes to be ready for mining.

The commercial production target is 600 tonnes/day. Milling options are currently being studied and a tailings facility will form part of our permit application so that an on-site milling facility can eventually be built.

Harte gold initiated a significant geophysical program between the Sugar Zone and the Wolf Zone. The Contact Zone where Hemlo-style mineralization has been found in sericite schists up to 45 meter wide and the Gossan Zone located on the west side of Dayohessarah Lake will be a focus for future exploration.

2016 2016 was a very busy year for Harte Gold as mining was in full swing with ore being delivered to Barrick Gold Corporation's Hemlo mill throughout the year.

Exploration efforts both near-mine and regionally are progressing at an aggressive pace with 6 drill rigs now working at the Sugar Zone and the newly discovered Middle Zone and the Wolf Zone. It is expected that the next resource update will include resources at the Middle Zone which could be incorporated into an updated mine plan and Technical Report.

2017 At the Sugar Zone deposit four drill rigs are actively completing infill and step-out drilling to move resources to the Measured, Indicated and Inferred categories. Infill drilling at the Sugar Zone upper 500 meters is now complete and work on an updated resource statement is underway. Step-out drilling targeting resource extensions at a depth below 500 meters is currently underway to extend the down-dip extension to 1,000 meters targeting Inferred resources. Step-out drilling at the Sugar Zone has returned significant intersections to the north within a previously undrilled area. This work has brought Sugar Zone mineralization to within 300 meters of the Middle Zone, further suggesting potential convergence of both zones

Drilling at the Middle Zone continues with three drill rigs active. Drilling has returned some excellent results including intersections of 13.02 g/t gold over 4.50 meters in hole WZ-17-79W and 13.68 g/t gold over 7.02 meters in hole SZ-17-86W. Hole WZ-17-92 confirms mineralization

continues north of the Gabbro intrusion towards the Wolf Zone. One drill rig is being mobilized to test mineralization north of the Gabbro intrusion.

A property-wide MAG and HTEM survey has been completed and results interpreted. The MAG has been instrumental in outlining the geologic structures on the property and combined with the HTEM survey, has identified five new significant anomalies on the property. The strongest conductor is on the west side of the property and is hosted at the contact of a volcanic and sedimentary unit, now referred to as the "Eagle Zone".

Early drilling at the Wolf, Lynx and Fisher Zones has demonstrated on-strike continuity of mineralization. Further definition of these areas will be enhanced using down-hole geophysics to better define potential mineralized structures and refine drill targets.

IP geophysics and soil sampling completed over the summer at the Marten Zone have identified areas to be drilled. Historical grab samples have returned anomalous gold, lead and zinc within the target area.

Technica Group Inc. completed the 30,000 tonne Phase 1 Commercial Production program. Five development sills are now developed in this area and is ready to begin long-hole drilling and mining of the stopes in the late spring to match the commissioning of the mill. Technica is now completing the upgrades of the underground power and ventilation critical for the start of commercial production.

Civil works for the mill began in Q2 as well as site preparation of the tailings management facility. The outer wall footings of the mill are completed, erection of walls is underway to prepare for the mill building shell and foundation work is well under way. It is expected the mill building will be fully erected by year end. Most equipment has been ordered and has begun arriving at site.

2018 A Mineral Resource Estimate dated February 15, 2018 contains an Indicated Mineral Resource Estimate of 2,607,000 tonnes grading 8.52 g/t for 714,200 ounces of contained gold and an Inferred Mineral Resource Estimate of 3,590,000 tonnes, grading 6.59 g/t for 760,800 ounces of contained gold, using a 3.0 g/t Au cut-off. The Company also completed a Preliminary Economic Assessment with an effective date of March 31, 2018, outlining 80,700 ounces of annual average gold production at an All-In Sustaining Cash Cost ("AISC") of US\$708/oz Au over an 11-year mine life.

All commercial production permits were issued in September. Process plant construction and transition to grid power were completed in September. First gold production was announced in mid-October. Gold doré bars are being produced through the gravity circuit and a high-grade concentrate is being produced through the flotation recovery circuit for offsite processing.

Official Mine Opening which was attended by the Premier of Ontario and Minister of Energy, Northern Development and Mines occurred October 24th, 2018. The Company bought down the royalty on the Sugar Zone property from 3.5% to 2.0% effective October 31, 2018.

Process plant commissioning was completed in early November. Since that time the Company has increased throughput to achieve the initial targeted rate of 575 tpd.

Sill development is on-going and long-hole stoping between the 140 and 155 levels off the Sugar Zone South ramp has begun. Results of the first production stope blast achieved expectations.

Underground development continues at the Sugar Zone North and South ramps. During September, the average advance rate of 8 meters per day was ahead of plan. The installation of critical underground infrastructure to support ventilation, power and pumping has been completed. In addition, the mine return air ventilation fan was successfully installed and the transition to grid power for most site power requirements substantially completed. Redpath is ramping up its underground mine personnel to achieve targeted ore sill development rates. Harte Gold's current permits allow for underground mining and mill processing rates of 550 tpd and 575 tpd respectively. Harte Gold will apply to increase both categories to 800 tpd in Q1 2019.

Near Mine Exploration infill drilling at the Sugar and Middle Zones for 2018 has concluded. Approximately 62,000 meters was drilled with a focus on the upgrade of Inferred Mineral Resources to the Indicated category. The drill program was successful and is expected to improve overall modelled grade of the Resources. Results will be factored into an updated NI 43-101 Mineral Resource Estimate targeted for early 2019. Step-out drilling underway will continue to mid-December. Approximately 30,000 meters has been drilled to-date, targeting extension of known mineralization at the Sugar, Middle and Wolf Zones, as well as discovery of new potential zones of mineralization like the Fox Zone. Information provided from the Company's downhole IP program completed in August has been successful identifying several drill targets, including a chargeability anomaly currently being drilled to test the convergence of the Middle and Wolf Zones. Downhole geophysics has been a highly successful tool used in the past; earlier work led to the deep Sugar Zone discovery at a depth of 1,000 meters. The Company has also started deep drilling at the Sugar Zone, approximately 1,500 meters below surface and 500 meters below the current extent of Inferred Mineral Resources, illustrated below. The intent of deep drilling is to test continuity of mineralization down dip and to potentially follow up with further downhole IP to develop deep drilling targets.

2019 Commercial production was officially declared for the sugar zone mine on January 8th 2019 after a successful commissioning period. The start up, commissioning and commercial production was achieved over a duration of three months. Permits initially allowed for 575 tonnes per day of production but on May 3rd 2019 the Ministry of Energy and Northern Development and Mines and the Ministry of Environment conservation and Parks, issued permits authorizing an increase in mine production to 800 tpd. Production continued to ramp up in the latter half of the year and in August 2019 it was stated that gold production had increased 42% quarter over quarter (Q1 to Q2) to 7754 ounces with an average head grade of 6.01 g/t. The mill processed 53,216 tonnes of ore (591 tpd average) which was a 39% increase quarter over quarter (Q1 to Q2).

On February 20th 2019 an updated NI 43-101 Resource Report based on 90,000 meters of 2018 drilling was released. The report announced indicated mineral resources at 1.1 million ounces grading 8.12 g/t Au and inferred mineral resources at 558,000 ounces grading 5.88 g/t Au. It also confirmed grade continuity within the sugar zone as well as an extension of mineralization along strike to the Wolf Zone. An updated feasibility study was also subsequently released on April 8th 2019 indicating a probable mineral reserve of 3.9 million tonnes at 7.1 g/t Au.

Near-mine infill drilling continued in 2019 and was focussed on the Middle and Sugar Zone-South areas. Drill results released on August 14th 2019 announced an increase to the mineralized extent of the Sugar Zone; mineralization was extended 300m south along strike and 200m down dip. Mineralized intersections returned values up to 23.59 g/t Au over 2.02 m. An extension of the upper zone along strike and down dip was also announced, further adding to mineable resources.

Regional exploration on the property in 2019 included prospecting, VLF surveys, and diamond drilling (Hambleton Lake, TNT, K7, and Flat Lake areas). Prospecting in the summer has revealed gold zinc and copper values of up to 253 ppb, .79% and .69% respectively north-northeast of the Sugar zone which potentially suggests a trend in excess of 10km. Drilling results from Hambleton Lake and K7 returned anomalous gold values of up to 730 ppb. On December 2nd 2019 Harte Gold announced the discovery of a new high grade gold showing called the TT8 Zone located approximately 16.5km Southeast of the Sugar Zone. Initial surface chip sampling showed gold values from 11g/t to 247 g/t along a 40 meter strike length hosted in a mafic and greywacke sediments. Hanging wall and footwall samples also ran gold values up to 2.64 g/t. The area had previously been mapped as tonalite by the OGS and is believed to be an extension of the Nameigos Greenstone belt.

2020 Regional exploration on the property in 2020 was focused predominately on the TT8 Zone and surrounding area. Work completed included diamond drilling, soil sampling, geophysical surveys, and prospecting. Drill results from the winter 2020 drill program were positive with the TT8 quartz vein intersected in 13 of the 15 holes drilled. Highlights of the drill assays include 11.14 g/t Au over 1.18 metres, in TT8-20-01 and 33.1 g/t Au over 0.68 metres in TT8-20-06. This expanded mineralization 300 metres along strike and 600 metres down-dip from the original showing.

On November 12, 2020 Harte Gold announced that summer prospecting had returned five new gold showings on strike with the previously discovered TT8 Showing. These new showings extend the TT8 mineralization trend to 11 km. Initial channel sampling and grab samples from these showings have revealed gold values up to 102 g/t in quartz veins and 2.8 g/t in the hanging and footwall rocks. In addition to this, prospecting also confirmed the connection of the Kabinakagami Lake Greenstone Belt and the Dayohessarah Lake Greenstone Belt via a narrow extension running through the TT8 area.

In December 2020 a short 6 hole, 527 meter drill program was conducted on the Money Zone to test it's on-strike and down-dip potential.

In **2021** exploration focused on conducting IP-mag surveys along the 11 km of new greenstone belt discovered in 2020, in particular where the six new high-grade gold showings (TT8, Money, Smokin' Aces, Long Shot, Big Bear and Southern) are located. This was followed by drilling 46 holes totalling 4,939 meters primarily along strike and down-dip of the six high-grade gold showings. Multiple IP-mag targets remain to be tested along the 11 km of new greenstone belt. Several high-grade gold intervals were intersected near the Money, TT8 and Big Bear showings. During 2021 additional drill programs were conducted at the 007, Fisher, Hambleton, K7 South and Lynx Zones. Prospecting was also carried out on all 142.9 line-km of grid lines that were cut in early 2021 for the IP-mag surveying. Prospecting was also carried out in the 007 Zone area. Exsics Exploration also conducted 30 days of prospecting in the Flat Lake area. No significant gold values were obtained from this work. A downhole IP survey was also conducted in four holes located in the Hambleton Zone to follow-up wide zones of pink-brown biotite alteration hosting minor po-py mineralization. This type of alteration and mineralization is present at the Sugar-Middle Zones. A review of the drill hole geochemistry and lithological model for the Sugar Zone deposit was also conducted by Mr. Simon Griffiths, Third Planet Exploration Services Ltd. Mr. Griffiths also reviewed the soil geochemical results from the Hambleton Zone with the intent of finding pathfinder elements to be use during mine and regional exploration. A total of 775 soils samples were also taken by The Haveman Brothers at the Hambleton West grid as follow-up to

recommendations made from Mr. Griffiths, Third Planet Exploration. SGS Canada Inc. was also contracted to conduct a lithological model of the Sugar Zone property. Mr. Blair Hrabí, SRK Consulting also conducted detailed structural mapping and interpretation of the TT8, Money and 007 Zones. Pioneer Exploration were contracted to perform detailed drone-mag surveys of the Hambleton, Lynx-K7 and Cigar Lake areas. Mr. Joe Mihelcic, Clearview Geophysics Ltd. conducted a geophysical review of all ground and airborne geophysics conducted on the Sugar Zone property. Limited trenching was also performed at the K7 South and 007 Zones. In the spring of 2021 Sumac Geomatics Inc. were contracted to perform a property wide LIDAR survey which also included detailed orthophotos. Vancouver Petrographics also performed detailed petrographic work on ten core samples from the TT8 area to assist in determining differences between greywacke sediments and tonalite intrusive in the area.

4.0 Geological Setting

4.1 Regional Geology

The DGB is situated between two larger greenstone belts; the Hemlo Greenstone Belt to the west and the Kabinakagami Greenstone Belt to the east. These greenstone belts are part of the larger, east trending Schreiber-White River Belt of the Wawa Subprovince of the Superior Craton (Figure 3). The Late Archean DGB trends northwest and forms a narrow, eastward concave crescent. The belt is approximately 36 km in length and varies in width from 1.5 to 5.5 km. Principal lithologies in the belt are moderately to highly deformed metamorphosed volcanics, volcanoclastics and sediments that have been enclosed and intruded by tonalitic to granodioritic quartz-porphyry plutons.

The greenstone belt is bordered to the east by the Strickland Pluton and to the west by the Black Pic Batholith. The Danny Lake Stock borders the south-western edge of the DGB. The Strickland Pluton is characterized by a granodioritic composition, quartz phenocrysts, fine grained titanite, and hematitic fractures. The Black Pic Batholith is similar to the Strickland Pluton, but locally more potassic. The Black Pic Batholith also contains interlayers of monzogranite. The Danny Lake Stock is characterized by hornblende porphyritic quartz monzonite to quartz monzodiorite (G. M. Stott, 1999).

The DGB has been metamorphosed to upper greenschist to amphibolite facies. The Strickland Pluton seems to have squeezed the greenstone belt and imposed upon it a thermal metamorphism. Most of the mafic volcanics are composed primarily of plagioclase and hornblende. Almandine garnets are widely observed in the clastic metasediments and locally, along with pyrope garnets, in the mafic volcanics (G.M. Stott, 1996a,b,c).

Alteration throughout the belt consists of diopside, albitization, weak magnesium biotization, weak carbonatization and moderate to strong silicification which accompanied the emplacement of the porphyry dykes/sills and quartz veining.

The belt has been strongly foliated, flattened and strained. Deformation seen in the supracrustal rocks has been interpreted to be related to the emplacement of the Strickland Pluton. Strongly developed metamorphic mineral lineations in the supracrustal rocks closely compare with the orientations of the quartz phenocryst lineations seen in the Strickland Pluton. This probably reflects a constant strain aureole imposed by the pluton upon the belt (G.M. Stott, 1996a,b,c). The strain fabric is best observed a few hundred meters from the Strickland Pluton in the Sugar

Zone, which has been characterized as the most severely strained part of the belt. The Sugar Zone is defined by sets of parallel mineralized quartz veining, quartz flooding of strongly altered wall-rock, thin intermediate porphyry lenses and dykes/sills parallel to stratigraphy and foliation, and gold mineralization.

Foliations and numerous top indicators define a synclinal fold in the central portion of the belt. The synclinal fold has been strongly flattened and stands upright with the fold hinge open to the south and centered along Dayohessarah Lake.

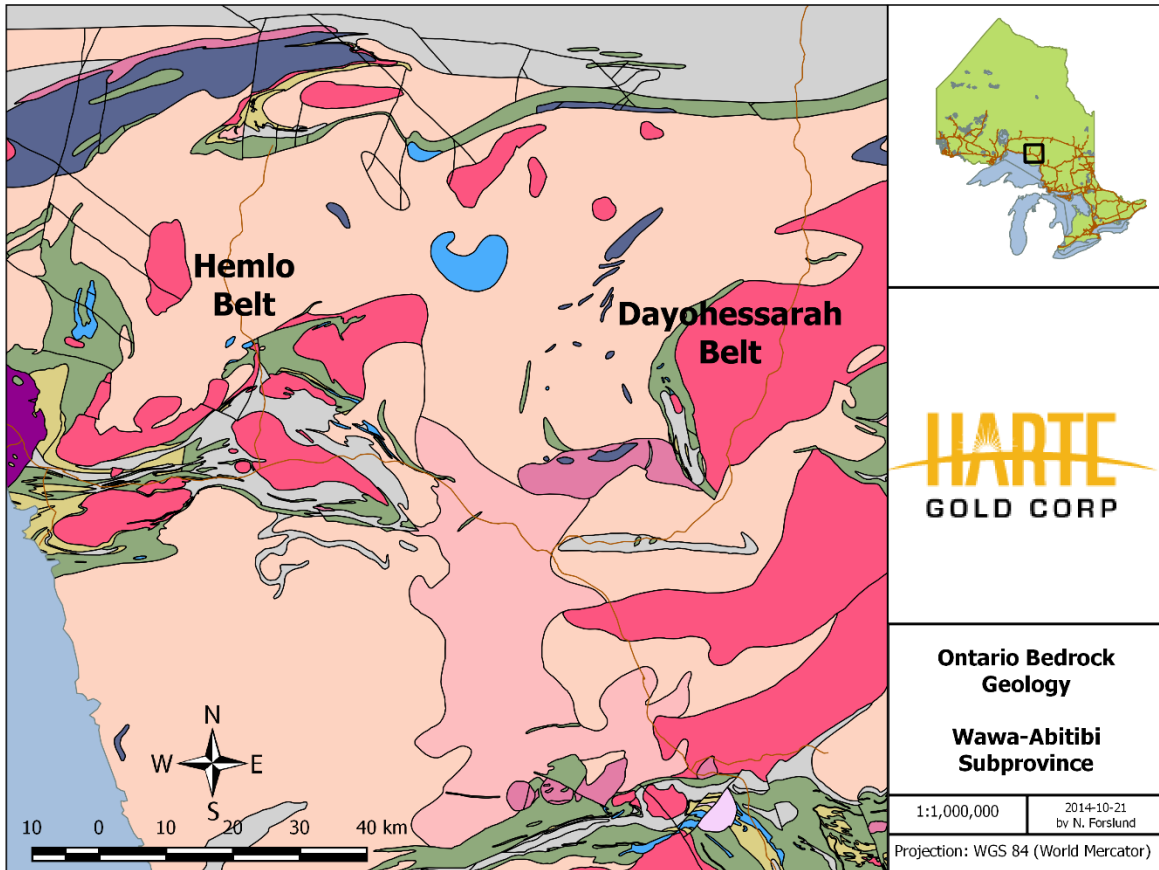


Figure 3 - Regional Geology

4.2 Property Geology

Near Dayohessarah Lake, the belt is dominated by a basal sequence of massive to pillowed mafic volcanics, commonly with ellipsoidal, bleached alteration pods, overlain by intermediate tuff and lapilli tuff. The tuffaceous units rapidly grade upwards to a sedimentary sequence consisting of greywacke and conglomerates derived from volcanics, sediments and felsic intrusive sources (G. M. Stott, 1996a,b,c). Several thin, continuous cherty sulphide facies iron formations are found in the mafic volcanic sequence. Spinifex textured komatiitic flows stratigraphically underlie the main sedimentary sequence and can be traced around the north end of Dayohessarah Lake. Also, at

the north end of Dayohessarah Lake, mafic and ultramafic sills and stocks underlie the komatiites (Figure 4).

Several fine to medium grained, intermediate feldspar porphyry dykes/sills have intruded and swarmed the belt. Swarming of the intermediate porphyry dykes is more intense east of Dayohessarah Lake. Stott has interpreted the porphyry sills and associated porphyry bodies to be related to the Strickland Pluton. A smaller granitic quartz porphyry body containing some sulphide mineralization is located northwest of Dayohessarah Lake. The porphyritic texture of the dykes/sills is often nearly, or completely, obliterated by the degree of foliation in the greenstone belt, or by the degree of shear in the Sugar Zone. These intermediate dykes/sills vary in abundance across the property, but increase in regularity within, and around, the Sugar Zone. There is also a consistent, weak pervasive silicic alteration in the intermediate intrusives, as well as consistently trace amounts of very fine-grained disseminated pyrite.

The major linear structure recognized on the property is the Sugar Deformation Zone ("SDZ"), which trends northwest-southeast for approximately 3.5 km and dips southwest between 65° and 75°. The SDZ appears to be spatially related to the Strickland Pluton and is a complex system with strain intensities varying from strongly deformed-pillow mafic volcanics to undeformed massive mafic flows to anastomosing linear areas. Stratigraphically-conformable porphyritic intermediate intrusions swarm through the SDZ. Both the mafic volcanics and the intermediate intrusives exhibit moderate linear fabrics along with hydrothermal alteration (i.e., silicification).

In general, the north-westerly striking, south-westerly dipping stratigraphy hosting the gold mineralized portions of the Sugar Zone can be subdivided into the following units:

- Hanging Wall Volcanics;
- Upper Zone (Sugar Zone mineralization);
- Interzone Volcanics;
- Lower Zone (Sugar Zone mineralization);
- Footwall Volcanics

The Hanging Wall, Interzone and Footwall volcanic horizons consist predominantly of massive and pillowed basalt flows generally striking northwest and dipping at an average angle of 64° to the southwest. Coarse to very coarse grained, locally gabbroic-textured phases form a significant component of the Hanging Wall mafic volcanic package. It is believed that these phases represent thick, slowly-cooled portions of the massive mafic flows, as they commonly grade into finer grained, more recognizable basaltic flows, and eventually even pillow flows. In much of the area which drilling on the Sugar Zone was carried out, a distinctive, very coarse grained mafic volcanic flow was observed consistently about 15 m stratigraphically above the Upper Zone. Other than this unit, specific mafic flows, as well as intermediate porphyry units, are nearly impossible to interpret/distinguish between holes.

The Upper and Lower zones range in thickness from 1.5 to 10 m, strike at 140° and dip between 65° and 75° with minor undulations.

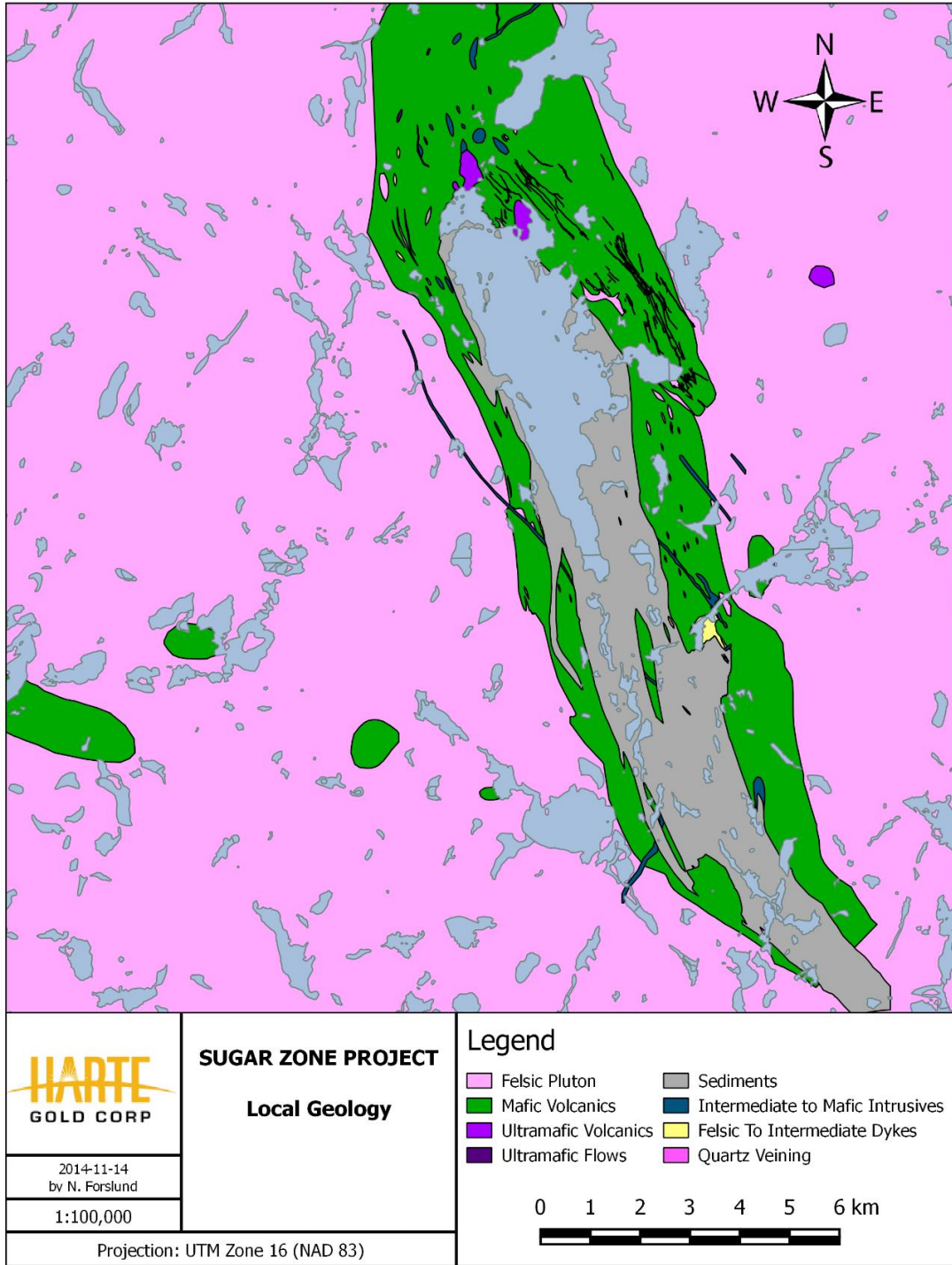


Figure 4 - Property Geology

The auriferous Wolf Zone lies in the northern extent of the SDZ, but drilling between the two zones indicates that the zones are complexly separate from each other. Like the Sugar Zone, the Wolf Zone is north-north-westerly striking and south-westerly dipping. Unlike the Sugar Zone, there is only one gold mineralized zone, and not two or more parallel zones.

A northerly-striking, sub-vertically dipping, dark grey-black, diabase dyke intrudes the older rock types in the greenstone belt, and crosscuts the SDZ. The diabase obliterates the SDZ when it is encountered. The diabase dyke is aphanitic around the edges and, where thick enough to do so, grades to a coarse-grained euhedral rock in the middle of the dyke. The dyke exhibits very coarse-grained greenish quartz-epidote phenocrysts up to 3 cm across throughout. The dyke is weakly pervasively magnetic. A very small amount of lateral movement of the zones has been interpreted locally on either side of the dyke, suggesting that very minor dyke-related faulting has occurred. There are at least two more diabase dykes on the property. They strike at 35 degrees across the northern portion of the belt. These dykes are up to 40 m across, and are similar in appearance and mineralogy to the dyke that cuts through the Sugar Zone.

Other than the diabase, the youngest intrusive rocks observed on the property are white to pale grey, fine grained to medium grained and occasionally pegmatitic felsite dykes. The dykes generally consist of varying amounts of plagioclase, quartz and muscovite. These generally thin dykes strike northeast and where they intersect the SDZ, they completely wipe out the zone. These dykes are undeformed and clearly postdate the mineralization and deformation events.

5.0 Mineralization

5.1 Sugar Zone

The auriferous Upper and Lower zones of the Sugar Zone lie within the SDZ. They are defined as highly strained packages consisting of variously altered mafic volcanic flows, intermediate porphyritic intrusions and boudinaged auriferous quartz veins. The two zones range in true thickness from about 1.5 to 10 m, and are separated by 20 to 30 m of barren mafic volcanics. A high-grade section of the Lower zone between lines 13+000N and 12+900N has been the focus of a bulk sample study and is referred to as the Jewelry Box.

Each zone is made up of one or more porphyritic intrusions, flanked by altered basalt and hosting stratigraphically conformable quartz veins. Alteration within the mafic volcanic portions of the zones consists primarily of silicification (both pervasive and as quartz veining), diopside and biotization. The porphyry units of the zones exhibit biotite and silica alteration as well, but no diopside alteration.

The Upper and Lower zones appear geologically consistent both down dip and along strike. The Lower Zone has consistently larger widths, as well as mostly consistently higher grades of gold mineralization, however both the width and the gold grade within each zone seem to follow the same trends across the zone. That is to say, that where the Upper Zone exhibits larger widths and higher gold grades, the Lower Zone also exhibits larger widths and higher gold grades. The zones are observed on surface to pinch and swell over distances of 50 m or more.

Gold mineralization mostly occurs in quartz veins, stringers and quartz flooded zones predominantly associated with porphyry zones, porphyry contact zones, hydrothermally altered basalts and, rarely, weakly altered or unaltered basalt within the Upper and Lower zones.

Fine to coarse grained specks and blebs of visible gold are common in the Sugar Zone quartz veins, usually occurring within marginal, laminated or refractured portions of the veins. The visible gold itself is often observed to be concentrated within thin fractures, indicating some degree of remobilization. Quartz veins and floods also contain varying amounts of pyrrhotite, pyrite, chalcopyrite, galena, sphalerite, molybdenite and arsenopyrite. The presence of galena, sphalerite and/or arsenopyrite is a strong indicator of the presence of visible gold. Pyrite, chalcopyrite and, rarely, molybdenite form a minor component of total sulphides and do not appear to be directly related to the presence of gold mineralization.

Other mineralized zones have been observed between, above and below the Sugar Zone Upper and Lower zones, in diamond drilling. Most of these intercepts are believed to be quartz veining originating in either the Upper or Lower zone, that have been diverted from the sheared part of the zone, up to 30 m from the main bodies of mineralization. One of these zones is the historically discovered Zoe Zone, which has been recently renamed the Lynx Zone, which lies east of the southern end of the Sugar Zone.

5.2 007 Zone

The 007 Zone is located 8.6 km northwest of the Sugar Zone deposit and along the western strained contact of the Dayohessarah greenstone belt. The 007 Zone is comprised of three main units deformed into a large scale S-shaped fold. Two mafic volcanic units are separated by a more intermediate composition and texturally variable unit. Feldspar-quartz phyrlic dykes intrude both units. A strong strain gradient is evident from the western and eastern edges of the outcrop toward the intermediate unit hosting the majority of early deformed auriferous quartz veins. The outcrop is characterized by a strong foliation in both the mafic to intermediate units and felsic intrusions and early veins that intrude them. A strongly steep west plunging mineral lineation is present in all rock types.

Limited stripping, outcrop washing and channel sampling of the 007 Zone was completed. Gold values of 4.11 g/t, 1.92 g/t and 0.42 g/t were returned from channel sampling across a 6.0 wide highly strained/sheared deformation zone within mafic volcanics hosting multiple quartz boudins.

6.0 2021 Diamond Drilling

6.1 Sample Collection, Preparation, Analyses and Security

NQ drill core is placed in core boxes by drillers. All drill core was delivered to the core processing facility in White River, Ontario where it undergoes geotechnical and geological logging by the geotechnician and geologist. The following describes the core logging process:

- The core is oriented in the box with the saddle pointing downhole, and rock quality data (RQD) is collected from each 3m run.
- The geotechnician marks out 1.0m intervals with a blue China marker and prepares a box list stating the length of core in each box. Aluminum tags are made and stapled to the end of each box.
- Core is photographed dry and wet.

- The geologist logs the geology of each hole, paying close attention to lithologies, alteration, structures, veining and mineralization.
- Sample collection begins with the marking of sample intervals with a red China marker by the geologist. The sample is given a sample tag. Sample intervals range from 50cm to 1.5m, and are taken not to cross major lithology boundaries. Standards and blanks are alternately inserted every 10th sample for QAQC.
- The core is cut with a Vancor diamond core saw by the geotechnician, and placed back in the box. Half core samples are taken from the box and bagged individually. The technician always takes the back half of the core for shipping, while the front half stays in the box.
- The individually bagged samples are placed in rice bags and delivered to Actlabs in Thunder Bay, Ontario. Samples are delivered either in person by Harte Gold staff, or by Greyhound Bus.
- Core is stored in racks in a locked fenced in yard at the core processing facility in White River, Ontario.

6.2 Laboratory Methods

Sample Preparation

Samples arrive at Actlabs at 217 Round Blvd, Thunder Bay, Ontario, where they are received and documented. Once the samples arrive in the laboratory, Actlabs will ensure that they are prepared properly.

As a routine practice with rock and core, the entire sample is crushed to a nominal minus 10 mesh (1.7 mm), mechanically split (riffle) to obtain a representative sample and then pulverized to at least 95% minus 150 mesh (106 microns).

All of Actlabs steel mills are now mild steel and do not induce Cr or Ni contamination. Quality of crushing and pulverization is routinely checked as part of their quality assurance program. All equipment is cleaned using quartz and air from a compressed air source. Blanks, sample replicates, duplicates, and internal reference materials (both aqueous and geochemical standards) are routinely used as part of Actlabs quality assurance program.

RX1	Crush (<7kg) up to 90% passing 2mm, riffle split (250g) and pulverize (mild steel) to 95% passing 105u. Cleaner sand included
-----	---

1A2 - (1A2-30 or 50) Au Fire Assay - AA

Fire Assay Fusion

A sample size of 5 to 50 grams can be used but the routine size is 30 g for rock pulps, soils or sediments (exploration samples). The sample is mixed with fire assay fluxes (borax, soda ash, silica, litharge) and with Ag added as a collector and the mixture is placed in a fire clay crucible. The mixture is then preheated at 850°C, intermediate 950°C and finish 1060°C with the entire

fusion process lasting 60 minutes. The crucibles are then removed from the assay furnace and the molten slag (lighter material) is carefully poured from the crucible into a mould, leaving a lead button at the base of the mould. The lead button is then placed in a preheated cupel which absorbs the lead when cupelled at 950°C to recover the Ag (doré bead) + Au.

AA Finish

The entire Ag dore bead is dissolved in aqua regia and the gold content is determined by AA (Atomic Absorption). AA is an instrumental method of determining element concentration by introducing an element in its atomic form, to a light beam of appropriate wavelength causing the atom to absorb light. The reduction in the intensity of the light beam directly correlates with the concentration of the elemental atomic species. On each tray of 42 samples there is two blanks, three sample duplicates and 2 certified reference materials, one high and one low (QC 7 out of 42 samples). We generally rerun all gold by fire assay gravimetric over 3,000 ppb to ensure accurate values

Code 1A2 (Fire Assay-AA) Detection Limits (ppb)

Element	Detection Limit	Upper Limit
Au	5	5,000

1A3 - (1A3-30 or 50) - Au Fire Assay - Gravimetric

Fire Assay

A sample size of 5 to 50 grams can be used but the routine size is 30 g for rock pulps, soils or sediments (exploration samples). The sample is mixed with fire assay fluxes (borax, soda ash, silica, litharge) and with Ag added as a collector and the mixture is placed in a fire clay crucible. The mixture is then preheated at 850°C, intermediate 950°C and finish 1060°C with the entire fusion process lasting 60 minutes. The crucibles are then removed from the assay furnace and the molten slag (lighter material) is carefully poured from the crucible into a mould, leaving a lead button at the base of the mould. The lead button is then placed in a preheated cupel which absorbs the lead when cupelled at 950°C to recover the Ag (doré bead) + Au.

Au is separated from the Ag in the doré bead by parting with nitric acid. The resulting gold flake is annealed using a torch. The gold flake remaining is weighed gravimetrically on a microbalance.

Code 1A3 (Fire Assay-Gravimetric) Detection Limits (g/mT)

Element	Detection Limit	Upper Limit
Au	0.03 (30 g) 0.02 (50 g)	10000

1A4 and 1A4-1000 - Au Fire Assay-Metallic Screen

Metallic Screen

A representative 500 g split (1,000 g for Code 1A4-1000) is sieved at 100 mesh (149 micron) with fire assays performed on the entire +100 mesh and 2 splits on the -100 mesh fraction. The total amount of sample and the +100 mesh and -100 mesh fraction is weighed for assay reconciliation. Measured amounts of cleaner sand are used between samples and saved to test for possible plating out of gold on the mill. Alternative sieving mesh sizes are available but the user is warned that the finer the grind the more likelihood of gold loss by plating out on the mill.

Fire Assay

A sample size of 5 to 50 grams can be used but the routine size is 30 g for rock pulps, soils or sediments (exploration samples). The sample is mixed with fire assay fluxes (borax, soda ash, silica, litharge) and with Ag added as a collector and the mixture is placed in a fire clay crucible. The mixture is then preheated at 850°C, intermediate 950°C and finish 1060°C with the entire fusion process lasting 60 minutes. The crucibles are then removed from the assay furnace and the molten slag (lighter material) is carefully poured from the crucible into a mould, leaving a lead button at the base of the mould. The lead button is then placed in a preheated cupel which absorbs the lead when cupelled at 950°C to recover the Ag (doré bead) + Au.

Au is separated from the Ag in the doré bead by parting with nitric acid. The gold (roasting) flake remaining is weighed gravimetrically on a microbalance. Two splits on the -150 micron fraction are weighed and analyzed by fire assay with a gravimetric finish. A final assay is calculated based on the weight of each separated fraction and obtained Au values.

Code 1A4 (Fire Assay-Metallic Screen) Detection Limits (g/mT)

Element	Detection Limit
Au	0.03

Ultratrace 6 - "Near Total" Digestion - ICP and ICP/MS

Ultratrace 6 combines the 4-acid digestion (HF, HClO₄, HNO₃ and HCl) with analysis by ICP and ICP/MS. Resistate minerals are not digested.

"Near Total" Digestion - ICP Portion

A 0.25 g sample is digested with four acids beginning with hydrofluoric, followed by a mixture of nitric and perchloric acids, heated using precise programmer controlled heating in several ramping and holding cycles which takes the samples to incipient dryness. After incipient dryness is attained, samples are brought back into solution using aqua regia.

With this digestion, certain phases may be only partially solubilized. These phases include zircon, monazite, sphene, gahnite, chromite, cassiterite, rutile and barite. Ag greater than 100 ppm and

Pb greater than 5000 ppm should be assayed as high levels may not be solubilized. Only sulphide sulfur will be solubilized.

The samples are then analyzed using a Varian ICP. QC for the digestion is 14% for each batch, 5 method reagent blanks, 10 in-house controls, 10 samples duplicates, and 8 certified reference materials. An additional 13% QC is performed as part of the instrumental analysis to ensure quality in the areas of instrumental drift.

"Near Total" Digestion – ICP/MS Portion

Additional elements are determined by ICP/MS on the multi-acid digest solution above. The samples are diluted and analyzed on a Perkin Elmer Sciex ELAN 6000, 6100 or 9000 ICP/MS. One blank is run for every 40 samples. In-house control is run every 20 samples. Digested standards are run every 80 samples. After every 15 samples, a digestion duplicate is analyzed. Instrument is recalibrated every 80 samples.

Extraction of each element by 4-Acid Digestion is dependent on mineralogy. Sulphide sulphur and soluble sulphates are extracted.

Code Ultratrace-6 Elements and Detection Limits (ppm)

Element	Detection Limit	Upper Limit	Reported By	Element	Detection Limit	Upper Limit	Reported By
Ag	0.05	100	ICP&ICP/MS	Na	0.01%	3%	ICP
Al	0.01%	10%	ICP	Nb	0.1	500	ICP/MS
As	0.1	10,000	ICP/MS	Nd	0.1	10,000	ICP/MS
Ba	1	5,000	ICP/MS	Ni	0.5	5,000	ICP/MS
Be	0.1	1,000	ICP/MS	P	0.001%	10%	ICP
Bi	0.02	2,000	ICP/MS	Pb	0.5	5,000	ICP/MS
Ca	0.01%	50%	ICP	Pr	0.1	1,000	ICP/MS
Cd	0.1	1,000	ICP/MS	Rb	0.2	5,000	ICP/MS
Ce	0.1	10,000	ICP/MS	Re	0.001	100	ICP/MS
Co	0.1	500	ICP/MS	S+	0.01%	20%	ICP
Cr	1	5,000	ICP/MS	Sb	0.1	500	ICP/MS
Cs	0.05	100	ICP/MS	Sc	1	-	ICP
Cu	0.2	10,000	ICP/MS	Se	0.1	1,000	ICP/MS
Dy	0.1	5,000	ICP/MS	Sm	0.1	100	ICP/MS
Er	0.1	1,000	ICP/MS	Sn	1	200	ICP/MS
Eu	0.05	100	ICP/MS	Sr	0.2	1,000	ICP/MS
Fe	0.01%	50%	ICP	Ta	0.1	1,000	ICP/MS
Ga	0.1	500	ICP/MS	Tb	0.1	100	ICP/MS
Ge	0.1	500	ICP/MS	Te	0.1	500	ICP/MS
Gd	0.1	5,000	ICP/MS	Th	0.1	500	ICP/MS
Hf	0.1	500	ICP/MS	Ti	0.0005%	-	ICP
Hg	10 ppb	10,000 ppb	ICP/MS	Tl	0.05	500	ICP/MS
Ho	0.1	1,000	ICP/MS	Tm	0.1	1,000	ICP/MS
In	0.1	100	ICP/MS	U	0.1	10,000	ICP/MS
K	0.01%	5%	ICP	V	1	1,000	ICP/MS
La	0.1	10,000	ICP/MS	W	0.1	200	ICP/MS
Li	0.5	400	ICP/MS	Y	0.1	10,000	ICP/MS
Lu	0.1	100	ICP/MS	Yb	0.1	5,000	ICP/MS
Mg	0.01%	50%	ICP	Zn	0.2	10,000	ICP/MS
Mn	1	10,000	ICP	Zr	1	5,000	ICP/MS
Mo	0.1	10,000	ICP/MS				

6.3 2021 007 Drilling

Seven diamond drill holes totalling 2,349 meters were drilled along the northeast 007 mineralized trend during the 2021 program. Drilling occurred from September 17, 2021 to October 17, 2021. One drill rig (G4-13) were supplied by G4 Drilling Canada Ltd. to perform drilling.

The intent of the 2021 drill program at the 007 Zone was to drill test several high-grade gold values collected from quartz veins hosted in mafic volcanics found in the area. A total of \$465,488 was spent on this drill program which included costs such as drilling, assays and salaries, etc. The average cost per meter was \$198.16.

A grade of 0.68 g/t gold over 0.72 m from 81.80-82.52 m was intersected in 007-21-02. No significant gold values were returned from the remaining holes drilled.

Table 1 provides a summary of drill hole information.

Table 1 – 007 Zone – Drill Hole Summary Table

# of Holes	Hole ID	Easting	Northing	Dip	Azimuth	Length (m)	Claim #
1	007-21-01	642929.8	5415087	-55	120	255	531265, 531266
2	007-21-02	642929.8	5415087	-55	105	273	531265, 531266
3	007-21-03	642978.3	5415128	-55	120	252	531265, 531266
4	007-21-04	642861.4	5414997	-55	120	252	531265
5	007-21-05	642798.6	5415272	-55	120	471	531265, 531266
6	007-21-06	642755.3	5415178	-55	120	450	531265, 531266
7	007-21-07	642712.3	5415105	-55	120	396	531265
					Total:	2349	

A geological legend, drill logs, plans and cross sections for all holes are presented in Appendix B, Appendix C, Appendix D and Appendix E, respectively.

6.4 Results

A total of 2003 core samples were collected and 2019 analysis were performed for gold by fire assay AA, gravimetric or metallic method. If any fire assay AA finished with a value of over 3 g/t or 10 g/t Au, it would be re-assayed by gravimetric finish or screen metallic assay respectively. In addition, 218 samples were also analysed by the Ultratrace 6, 61 element “near total digestion” ICP, ICP/MS method.

All of the samples were shipped to Actlabs in Thunder Bay, Ontario.

Table 2 provides a summary of the assay results per hole.

Detailed assay results can be found in the drill Logs attached in Appendix C and drill certificates from Actlabs can be found in Appendix F. Actlabs invoices are found in Appendix G. Foraco Canada Ltd. invoices are in Appendix H.

Table 2 – 007 Zone – Assay Results Per Hole

	Hole #	Zone	Au g/t	Width (m)	From (m)	To (m)
1	007-21-01	007	NSA			
2	007-21-02	007	0.68	0.72	81.8	82.52
3	007-21-03	007	NSA			
4	007-21-04	007	NSA			
5	007-21-05	007	NSA			
6	007-21-06	007	NSA			
7	007-21-07	007	NSA			
NSA - no significant assays						

7.0 Conclusions and Recommendations

Between September 17, 2021 to October 17, 2021 Harte Gold Corporation performed a 7-hole, 2,349-meter diamond drill program along the 007 Zone mineralized trend.

All seven drill holes intersected a sequence of massive to pillowed mafic volcanics with interbedded garnetiferous silicate and sulphide-facies iron formation, at times with minor ultramafic volcanics, which are intruded by gabbro, feldspar porphyry and granodiorite dykes and sills. Several narrow intervals of altered mafic flows with intermittent quartz veining with up to 3% po and molybdenite were also intersected. These intervals may be the source of the anomalous gold values obtained on surface.

A high of 0.68 g/t Au over 0.72m was obtained from 007-21-02. No further drilling is recommended at this time.

8.0 Costs

A total of \$465,488 was spent during the 007 Zone drill program. Costs and cost distribution per claim are summarized in Tables 3 and 4. Drilling invoice and analytical cost summaries are provided in Tables 5 and 6, respectively.

Table 3 – 007 Zone - Summary of Costs

Activity	Units	Cost per Unit	Total	%
Drilling (7 holes)	2349 meters	\$146.09	\$343,167	74%
Planning/Supervision	31 days	\$692.28	\$21,461	5%
Drill Geologist	31 days	\$285.56	\$8,852	2%
Core Cutter	31 days	\$220.00	\$6,820	1%
Assays	2019 analysis	\$36.58	\$73,858	16%
Truck (92 km x 3 trips/hole)	1932 kilometers	\$0.50	\$966	0%
R&B - Supervisor	31 days	\$89.00	\$2,759	1%
R&B - Geologist	31 days	\$89.00	\$2,759	1%
Report Writing	7 days	\$692.28	\$4,846	1%
Total Program Cost			\$465,488	100%
		Average \$/m	\$198.16	

Table 4 – 007 Zone - Cost Per Claim

	Grouped Claim Number		
	531265	531266	
Total Meters/ Claim	1703	646	2349
% of Total Meterage/Claim	72%	28%	100%
Activity	Total Cost		
Drilling (7 holes)	\$248,792	\$94,374	\$343,167
Planning/Supervision	\$15,559	\$5,902	\$21,461
Drill Geologist	\$6,418	\$2,434	\$8,852
Core Cutter	\$4,944	\$1,876	\$6,820
Assays	\$54,315	\$19,543	\$73,858
Truck (92 km x 3 trips/hole)	\$700	\$266	\$966
R&B - Supervisor	\$2,000	\$759	\$2,759
R&B - Geologist	\$2,000	\$759	\$2,759
Report Writing	\$3,513	\$1,333	\$4,846
Total Cost/Claim	\$338,243	\$127,245	\$465,488

Table 5 – 007 Zone - DDH Program Cost Summary

	DDH & Cost Item	Invoice Cost	Total Meters	\$/Meter	Invoice #	Claim #	m/Claim
1	007-21-01						
	Hexagonal Core Barrel	\$4.50			167-393-2021915		
	Overburden	\$252.00			167-393-2021930		
	Reaming Shell NQ 18"	\$21.60					
	Coring NQ	\$8,633.00					
	Coring NQ	\$9,300.00					
	Coring NQ	\$5,335.00					
	Move between hole	\$3,658.00					
	Stabliizing	\$236.00					
	DD 2000	\$196.24					
	Casing Cap	\$65.00					
	Casing Shoe NW	\$179.61					
	NQ Bit	\$497.50					
	NW Casing 3 m	\$157.40					
	NW Crown Bit	\$475.00					
	Test 0-300 meters	\$531.00					
	Reflex rental	\$130.00					
	APS Rental	\$57.25					
	Core Boxes	\$9,547.20					
	Mobilization	\$15,488.00				531265	120
	Total Cost for hole	\$54,764.30	255	\$214.76		531266	135
2	007-21-02						
	Overburden	\$252.00			167-393-2021930		
	Coring NQ	\$8,633.00					
	Coring NQ	\$9,300.00					
	Coring NQ	\$7,081.00					
	Move between hole	\$472.00					
	Time preparation of site	\$590.00					
	Casing Cap	\$65.00					
	Casing Shoe NW	\$179.61					
	NW Casing 3 m	\$157.40					
	Test 0-300 meters	\$590.00				531265	130
	Total Cost for hole	\$27,320.01	273	\$100.07		531266	143
3	007-21-03						
	Overburden	\$252.00			167-393-2021930		
	Coring NQ	\$8,633.00					
	Coring NQ	\$9,300.00					
	Coring NQ	\$5,044.00					
	Move between hole	\$2,714.00					
	Stand By	\$118.00					
	Time preparation of site	\$944.00					
	Casing Cap	\$65.00					
	Casing Shoe NW	\$179.61					
	NW Casing 3 m	\$157.40					
	Test 0-300 meters	\$531.00				531265	15
	Total Cost for hole	\$27,938.01	252	\$110.87		531266	237
4	007-21-04						
	Overburden	\$252.00			167-393-2021930		
	Coring NQ	\$8,633.00					
	Coring NQ	\$9,300.00					
	Coring NQ	\$5,044.00					
	Move between hole	\$3,068.00					
	Time preparation of site	\$708.00					
	Casing Cap	\$65.00					
	Casing Shoe NW	\$179.61					
	NW Casing 3 m	\$157.40					
	NW Crown Bit	\$475.00					
	Test 0-300 meters	\$531.00					
	Total Cost for hole	\$28,413.01	252	\$112.75		531265	252

5	007-21-05					
	Overburden	\$252.00			167-393-2021930	
	Coring NQ	\$13,580.00			167-393-20211015	
	Coring NQ	\$19,700.00				
	Coring NQ	\$13,041.00				
	Move between hole	\$3,776.00				
	Tractor & Operator	\$944.00				
	Casing Cap	\$65.00				
	Casing Shoe NW	\$179.61				
	NW Casing 3 m	\$157.40				
	Test 0-300 meters	\$531.00				
	Test 300-600 meters	\$708.00				
	Core Boxes 2021-09-30	\$17,503.20				
	ATV Rental	\$500.00				
	Foreman	\$3,328.00				
	Mobilization Transportation	\$14,544.00				
	Rental APS	\$458.00				
	Rental Reflex Exy track	\$1,300.00				
	Rental Reflex TN-14	\$635.00				531265 370
	Total Cost for hole	\$91,202.21	471	\$193.64		531266 101
6	007-21-06					
	Hexagonal Core Barrel	\$111.00			167-393-20211015	
	Overburden	\$252.00				
	Reaming Shell NQ 18"	\$133.20				
	Coring NQ	\$8,633.00				
	Coring NQ	\$9,300.00				
	Coring NQ	\$9,700.00				
	Coring NQ	\$10,400.00				
	Coring NQ	\$5,600.00				
	Move between hole	\$944.00				
	Casing Cap	\$65.00				
	Casing Shoe NW	\$179.61				
	NW Casing 3 m	\$157.40				
	Test 0-300 meters	\$590.00				
	Test 300-600 meters	\$708.00				531265 420
	Total Cost for hole	\$46,773.21	450	\$103.94		531266 30
7	007-21-07					
	Hexagonal Core Barrel	\$390.00			167-393-20211015	
	Overburden	\$504.00			167-393-20211031	
	Reaming Shell NQ 18"	\$468.00				
	Coring NQ	\$8,366.00				
	Coring NQ	\$9,300.00				
	Coring NQ	\$9,700.00				
	Coring NQ	\$9,984.00				
	Move between hole	\$4,956.00				
	Stand By	\$1,888.00				
	Casing Cap	\$65.00				
	Casing Shoe NW	\$179.61				
	NW Casing 3 m	\$314.80				
	Rod Grease	\$387.50				
	Test 0-300 meters	\$590.00				
	Test 300-600 meters	\$354.00				
	ATV Rental	\$625.00				
	Foreman	\$12,480.00				
	Rental Reflex Exy track	\$3,029.00				
	Rental Reflex TN-14	\$3,175.00				
	Total Cost for hole	\$66,755.91	396	\$168.58		531265 396
	Total Cost	\$343,166.66				Total m/claim 531265 1703
	Total Meterage		2349			Total m/claim 531266 646
	Average Cost/Meter			\$146.09		2349

Table 6 – 007 Zone - Analytical Cost Summary

# of Holes	DDH #	Sample #'s	# of Samples	Certificate #	RX1-1-T (\$8/sample)	1A2 (\$9/sample)	UT-6 (\$28/sample)	100% Rush	50% Rush	Subtotal Cost	Claim #	# Assays/Claim	% of Assays/Claim	531265	531266	Total	
1	007-21-01	828951 829063	112	A21-17940	108	114	25	1		\$4,480.00	531265	60	51%	\$2,329.38	\$2,251.74	\$4,581.12	
		829922 829925	3	A21-19177	3	3	4	1		\$101.12	531266	58	49%				
			115		111	117					\$4,581.12		118	100%			
2	007-21-02	829065 829215	150	A21-18047	144	151	151	1		\$9,250.00	531265	86	44%	\$5,030.78	\$6,493.22	\$11,524.00	
		829216 829261	45	A21-18549	43	46		1		\$2,274.00	531266	111	58%				
			195		187	197					\$11,524.00		197	100%			
3	007-21-03	829262 829410	148	A21-18553	142	149		1		\$4,954.00	531265	12	6%	\$400.31	\$6,471.69	\$6,872.00	
		829411 829467	56	A21-18548	54	57	1	1		\$1,918.00	531266	194	94%				
			204		196	206					\$6,872.00		206	100%			
4	007-21-04	829468 829547	79	A21-18547	76	80	11	1		\$2,964.00	531265	194	100%	\$6,856.00	\$0.00	\$6,856.00	
		829548 829660	112	A21-19062	108	114	4	1		\$3,892.00							
			191		184	194					\$6,856.00						
5	007-21-05	829662 829885	223	A21-19048	213	224	19	1		\$7,972.00	531265	348	79%	\$12,090.53	\$3,196.35	\$15,286.88	
		829886 830000	114	A21-19177	114	114				\$3,842.84	531266	92	21%				
		830501 830604	103	A21-19177	103	103				\$3,472.04		440	100%				
			440		430	441					\$15,286.88						
6	007-21-06	830606 830797	191	A21-19380	183	192	1	1		\$6,412.00	531265	441	93%	\$14,652.34	\$1,129.66	\$15,782.00	
		830798 830968	170	A21-19515	160	169		1		\$5,602.00	531266	34	7%				
		830969 831000	31	A21-19794	106	112	2	1		\$3,768.00		475	100%				
		831501 831580	79	A21-19794	included in the above	included in the above											
			471		449	473					\$15,782.00						
7	007-21-07	831581 831760	179	A21-19795	171	180		1		\$5,976.00	531265	389	100%	\$12,956.00	\$0.00	\$12,956.00	
		831761 831969	208	A21-20008	200	210		1		\$6,980.00							
			387		371	390					\$12,956.00						
Total # of Samples				Total RX1-10- T Samples	Total of 1A2 Analysis	Total UT-6 Analysis		Ave. S/Sample	Total Analytical Cost		Total # of Assays		Totals/Claim	\$54,315.35	\$19,542.65	\$73,858.00	
				2003	1928	2018	218		\$36.58	\$73,858.00		2019					

9.0 References

- Hunt, D.S., 2009. Report on the Summer 2009 exploration program on the Sugar Zone project. Internal report prepared for Corona Gold Corporation and Harte Gold Corp.
- Laarman, J.E., 2014. Report on the Summer 2014 Geologic Mapping. Internal report prepared for Harte Gold Corp.
- Middleton, R.S., Forslund, N.R., Laarman, J., 2015. 2014 Report on Diamond Drilling at the Sugar Zone Property, Dayohessarah Lake Area, White River, Ontario – Part 2. Internal Report for Harte Gold Corp., January 2015.
- Ramsay, J. G. 1980. The crack-seal mechanism of rock deformation. *Nature* 284, 135-139.
- Shegelski, R.J., 2014. Depositional history, structural geology and timing of gold mineralization of the Sugar Zone gold property, Dayohessarah Lake area, White River, Ontario. Internal Report for Harte Gold, September 2014, 21p.
- Stein, H.J, Markey, R.J. and Morgan, J.W., 2000. Robust Re-Os Molybdenite Ages for the Hemlo Au Deposit, Superior Province, Canada. *Journal of Conference Abstracts*, v.5, p955.
- Stott, G.M., 1996a. Precambrian Geology of Dayohessarah Lake Area (North half), Ontario Geological Survey, Preliminary map no. 3309.
- Stott, G.M., 1996b. Precambrian Geology of Dayohessarah Lake Area (Central area), Ontario Geological Survey, Preliminary map no. 3310.
- Stott, G.M., 1996c. Precambrian Geology of Dayohessarah Lake Area (South half), Ontario Geological Survey, Preliminary map no. 3311.

10.0 Statement of Qualifications

I, David B. Stevenson, of 2217 Lacewood Drive, Thunder Bay, Ontario, P7K 1C4 hereby certify that:

I am presently employed by Harte Gold Corporation as their Chief Exploration Geologist.

I am a graduate of the University of New Brunswick, B.Sc. (Hons. Geology), 1981 and a graduate of Queen's University, M.Sc. (Minex), 1998.

I have practiced my profession as a geologist for over 35 years in various provinces and territories across Canada as well as Norway.

I am a member in good standing of the Association Professional Geoscientists of Ontario.

I have personal knowledge of the work carried out on the property as described in this report,

I have no personal interest in the property.

Dated this 21st day of January 2022 at Thunder Bay, Ontario.



David B. Stevenson, M.Sc., P.Geo.

Appendix A – Property Claims List

Schedule "A"
Sugar Zone Mining Leases

Claim #	Twp.	Issued	Anniversary	Area (Ha.)	Reserve	Lease #	Rights	PIN	Reg'd Plan
1069332	HAMBLETON	01-Jun-15	31-May-36	393.38	\$3,828	Lease	CLM514	MR+SR	31054-0003 31054-0004 31054-0005 31054-0006
1069333	HAMBLETON				\$7,320	Lease	CLM514	MR+SR	
1069343	HAMBLETON				\$3,989	Lease	CLM514	MR+SR	
1069344	HAMBLETON				\$851	Lease	CLM514	MR+SR, MRO	
1069345	HAMBLETON				\$3,729	Lease	CLM514	MR+SR, MRO	
1069346	HAMBLETON				\$3,621	Lease	CLM514	MR+SR	
1182993	HAMBLETON				\$1,519	Lease	CLM514	MR+SR	
1232640	GOURLAY				\$302	Lease	CLM514	MR+SR, MRO	
1235595	HAMBLETON				\$3,263	Lease	CLM514	MR+SR, MRO	
1069327	HAMBLETON				01-May-15	30-Apr-36	282.67	\$3,932	
1069328	HAMBLETON	\$6,981	Lease	CLM515				MR+SR	
1069329	HAMBLETON	\$28,415	Lease	CLM515				MR+SR	
1069330	HAMBLETON	\$6,199	Lease	CLM515				MR+SR	
1069331	HAMBLETON	\$7,819	Lease	CLM515				MR+SR	
1069334	HAMBLETON	\$5,851	Lease	CLM515				MR+SR	
1069335	HAMBLETON	\$5,914	Lease	CLM515				MR+SR	
1069336	HAMBLETON	\$32,451	Lease	CLM515				MR+SR	
1069337	HAMBLETON	\$7,427	Lease	CLM515				MR+SR, MRO	
1069338	HAMBLETON	\$1,426	Lease	CLM515				MR+SR, MRO	
1069339	HAMBLETON	\$4,461	Lease	CLM515				MR+SR, MRO	
1069340	HAMBLETON	\$6,587	Lease	CLM515				MR+SR	
1069341	HAMBLETON	\$39,482	Lease	CLM515				MR+SR	
1069342	HAMBLETON	\$120,283	Lease	CLM515				MR+SR	
1069347	HAMBLETON	\$343,207	Lease	CLM515				MR+SR	
1069348	HAMBLETON	\$8,049	Lease	CLM515				MR+SR, MRO	
1069349	HAMBLETON	\$3,569	Lease	CLM515				MR+SR, MRO	
1069350	HAMBLETON	\$7,532	Lease	CLM515				MR+SR, MRO	
1135498	HAMBLETON	\$930,312	Lease	CLM515				MR+SR	
1182994	HAMBLETON	\$1,458,826	Lease	CLM515				MR+SR	
4270162	HAMBLETON				Lease	CLM515	MR+SR		
937770	ODLUM	01-May-15	30-Apr-36	279.83	\$174	Lease	CLM516	MR+SR	31078-0001 Pts. 1-11, 1R-13038
1043803	ODLUM					Lease	CLM516	MR+SR, MRO	
1043811	ODLUM					Lease	CLM516	MR+SR, MRO	
1043812	ODLUM					Lease	CLM516	MR+SR, MRO	
1069356	ODLUM				\$600	Lease	CLM516	MR+SR	
1069357	ODLUM				\$600	Lease	CLM516	MR+SR, MRO	
1069358	ODLUM				\$600	Lease	CLM516	MR+SR, MRO	
1069363	ODLUM				\$382	Lease	CLM516	MR+SR, MRO	
1069364	ODLUM				\$306	Lease	CLM516	MR+SR, MRO	
1069365	ODLUM				\$200	Lease	CLM516	MR+SR, MRO	
1069372	ODLUM					Lease	CLM516	MRO	
1069373	ODLUM					Lease	CLM516	MR+SR, MRO	
1069374	ODLUM				\$102	Lease	CLM516	MR+SR, MRO	
1078250	ODLUM					Lease	CLM516	MR+SR, MRO	
1078251	ODLUM				\$617	Lease	CLM516	MR+SR, MRO	
1078252	ODLUM				\$1,388	Lease	CLM516	MR+SR, MRO	
1135499	HAMBLETON				\$741,876	Lease	CLM516	MR+SR	
1194337	HAMBLETON				\$1,719	Lease	CLM516	MR+SR	
1194340	ODLUM				\$306	Lease	CLM516	MR+SR, MRO	
937771	ODLUM				01-May-15	30-Apr-36	511.38	\$287	
937772	ODLUM	\$174	Lease	CLM517				MR+SR	
1043806	ODLUM		Lease	CLM517				MR+SR, MRO	
1043807	ODLUM		Lease	CLM517				MR+SR	
1043808	ODLUM	\$200	Lease	CLM517				MR+SR, MRO	
1043809	ODLUM	\$1	Lease	CLM517				MR+SR, MRO	
1043810	ODLUM		Lease	CLM517				MRO	
1069352	HAMBLETON	\$113,438	Lease	CLM517				MR+SR	
1069353	HAMBLETON	\$1,000	Lease	CLM517				MR+SR, MRO	
1069354	ODLUM	\$10,426	Lease	CLM517				MR+SR, MRO	
1069355	ODLUM	\$30,262	Lease	CLM517				MR+SR	
1069366	ODLUM	\$9,613	Lease	CLM517				MR+SR, MRO	
1069367	ODLUM	\$66,094	Lease	CLM517				MR+SR, MRO	
1069368	ODLUM	\$200	Lease	CLM517				MR+SR, MRO	
1069369	ODLUM	\$200	Lease	CLM517				MR+SR, MRO	
1069370	ODLUM	\$154	Lease	CLM517				MR+SR, MRO	
1069371	ODLUM		Lease	CLM517				MR+SR, MRO	
1140638	STRICKLAND	\$174	Lease	CLM517				MR+SR, MRO	
1140639	STRICKLAND	\$174	Lease	CLM517				MR+SR, MRO	
1140640	STRICKLAND	\$350	Lease	CLM517				MR+SR	
1140641	STRICKLAND		Lease	CLM517	MR+SR				
1140642	STRICKLAND		Lease	CLM517	MR+SR				
1140643	STRICKLAND	\$306	Lease	CLM517	MR+SR				
1140644	STRICKLAND		Lease	CLM517	MR+SR				
1140645	STRICKLAND		Lease	CLM517	MR+SR				
1140646	STRICKLAND		Lease	CLM517	MR+SR				
1140647	STRICKLAND	\$306	Lease	CLM517	MR+SR				
1140658	STRICKLAND	\$306	Lease	CLM517	MR+SR				
1140659	STRICKLAND	\$306	Lease	CLM517	MR+SR				
1140660	STRICKLAND	\$306	Lease	CLM517	MR+SR				
				1467.26					

Schedule "B"
Sugar Zone - Claims

Legacy Claim Id	Township / Area	Tenure ID	Tenure Type	Anniversary Date	Work Required	Total Reserve
4281896	ODLUM	136581*	Boundary Cell Mining Claim	2021-02-06	\$200	\$0
4281896	ODLUM	334503*	Boundary Cell Mining Claim	2021-02-06	\$200	\$0
4281896	ODLUM	255919*	Boundary Cell Mining Claim	2021-02-06	\$200	\$0
4281896	ODLUM	237877*	Boundary Cell Mining Claim	2021-02-06	\$200	\$0
4281896	ODLUM	220822*	Boundary Cell Mining Claim	2021-02-06	\$200	\$0
4281896	ODLUM	220821*	Boundary Cell Mining Claim	2021-02-06	\$200	\$0
4281896	ODLUM	209284*	Boundary Cell Mining Claim	2021-02-06	\$200	\$0
4281896	ODLUM	209282*	Boundary Cell Mining Claim	2021-02-06	\$200	\$0
4281896	ODLUM	201257*	Boundary Cell Mining Claim	2021-02-06	\$200	\$0
4281896	ODLUM	171296*	Boundary Cell Mining Claim	2021-02-06	\$200	\$0
4281896	ODLUM	142560*	Boundary Cell Mining Claim	2021-02-06	\$200	\$0
4281896	ODLUM	136582*	Boundary Cell Mining Claim	2021-02-06	\$200	\$0
4281896	ODLUM	324599*	Single Cell Mining Claim	2021-02-06	\$400	\$0
4281896	ODLUM	255918*	Single Cell Mining Claim	2021-02-06	\$400	\$0
4281896	ODLUM	255917*	Single Cell Mining Claim	2021-02-06	\$400	\$223
4281896	ODLUM	209283*	Single Cell Mining Claim	2021-02-06	\$400	\$0
	MOSAMBIK	532869	Multi-cell Mining Claim	2021-04-10	8000	0
	NAMEIGOS	531281	Multi-cell Mining Claim	2021-04-10	10000	0
	NAMEIGOS	531282	Multi-cell Mining Claim	2021-04-10	9600	1753
	NAMEIGOS	531289	Multi-cell Mining Claim	2021-04-10	5600	2238
	NAMEIGOS	531331	Multi-cell Mining Claim	2021-04-10	7600	2016
	NAMEIGOS,STRICKLAND	531280	Multi-cell Mining Claim	2021-04-10	9600	0
	NAMEIGOS	514033	Single Cell Mining Claim	2021-04-10	400	0
	NAMEIGOS	514035	Single Cell Mining Claim	2021-04-10	400	0
	COOPER,STRICKLAND	531165	Multi-cell Mining Claim	2021-04-10	5200	1331
	HAMBLETON	531227	Multi-cell Mining Claim	2021-04-10	5600	1553
	HAMBLETON	531248	Multi-cell Mining Claim	2021-04-10	10000	0
	HAMBLETON	531265	Multi-cell Mining Claim	2021-04-10	10000	0
	HAMBLETON	531266	Multi-cell Mining Claim	2021-04-10	5600	0
	HAMBLETON	531267	Multi-cell Mining Claim	2021-04-10	5600	0
	ODLUM	531183	Multi-cell Mining Claim	2021-04-10	9600	1370
	ODLUM	531198	Multi-cell Mining Claim	2021-04-10	7600	3217
	ODLUM,STRICKLAND	531184	Multi-cell Mining Claim	2021-04-10	9600	2087
	ODLUM,STRICKLAND	531197	Multi-cell Mining Claim	2021-04-10	9600	3658
	ODLUM,STRICKLAND,TEDDER	531175	Multi-cell Mining Claim	2021-04-10	10000	187
	STRICKLAND	531157	Multi-cell Mining Claim	2021-04-10	10000	5781
	STRICKLAND,TEDDER	531169	Multi-cell Mining Claim	2021-04-10	8800	5224
	STRICKLAND,TEDDER	531171	Multi-cell Mining Claim	2021-04-10	8800	4401
	HAMBLETON	531254	Multi-cell Mining Claim	2021-06-13	9600	0
	HAMBLETON	531255	Multi-cell Mining Claim	2021-06-13	10000	0
	HAMBLETON	531256	Multi-cell Mining Claim	2021-06-13	10000	583
	HAMBLETON	531258	Multi-cell Mining Claim	2021-06-13	4800	0
	HAMBLETON	531269	Multi-cell Mining Claim	2021-06-13	1200	0
	NAMEIGOS	531335	Multi-cell Mining Claim	2021-06-13	10000	0
	NAMEIGOS	531340	Multi-cell Mining Claim	2021-06-13	6800	33
	NAMEIGOS	531342	Multi-cell Mining Claim	2021-06-13	8000	0
	NAMEIGOS	531343	Multi-cell Mining Claim	2021-06-13	8000	0
	NAMEIGOS	531344	Multi-cell Mining Claim	2021-06-13	7200	2174
4260661	ODLUM	205218	Boundary Cell Mining Claim	2021-06-20	200	0
4260665	ODLUM	236538	Boundary Cell Mining Claim	2021-06-20	200	837
4284301	ODLUM	113014	Boundary Cell Mining Claim	2021-06-20	200	374
4284301	ODLUM	323310	Boundary Cell Mining Claim	2021-06-20	200	832
	JOHNS	530313	Multi-cell Mining Claim	2021-06-20	6400	2174
	JOHNS	530314	Multi-cell Mining Claim	2021-06-20	6400	940
	JOHNS	530315	Multi-cell Mining Claim	2021-06-20	7200	4533
	JOHNS	530316	Multi-cell Mining Claim	2021-06-20	10000	0
	JOHNS	530317	Multi-cell Mining Claim	2021-06-20	7200	0
	JOHNS	531017	Multi-cell Mining Claim	2021-06-20	9600	5604
	JOHNS	531018	Multi-cell Mining Claim	2021-06-20	10000	0
	JOHNS,ODLUM	530318	Multi-cell Mining Claim	2021-06-20	7200	0
	JOHNS,ODLUM	531019	Multi-cell Mining Claim	2021-06-20	9600	0
	JOHNS,ODLUM	531020	Multi-cell Mining Claim	2021-06-20	10000	0
	ODLUM	531016	Multi-cell Mining Claim	2021-06-20	10000	0

	ODLUM	531021	Multi-cell Mining Claim	2021-06-20	10000	455
	ODLUM	531024	Multi-cell Mining Claim	2021-06-20	10000	0
	ODLUM	531025	Multi-cell Mining Claim	2021-06-20	9600	0
	ODLUM,TEDDER	531022	Multi-cell Mining Claim	2021-06-20	8800	247
	ODLUM,TEDDER	531023	Multi-cell Mining Claim	2021-06-20	9600	89
	ODLUM	531201	Multi-cell Mining Claim	2021-10-29	2000	398
	STRICKLAND	531162	Multi-cell Mining Claim	2020-11-16	9600	0
	STRICKLAND	531168	Multi-cell Mining Claim	2020-11-16	10000	0
	STRICKLAND	531177	Multi-cell Mining Claim	2020-11-16	9600	0
	STRICKLAND	531178	Multi-cell Mining Claim	2020-11-16	10000	0
	STRICKLAND	531180	Multi-cell Mining Claim	2020-11-16	9200	0
	STRICKLAND	531271	Multi-cell Mining Claim	2020-11-16	8000	0
	STRICKLAND	531273	Multi-cell Mining Claim	2020-11-16	10000	0
	STRICKLAND	531274	Multi-cell Mining Claim	2020-11-16	10000	0
	STRICKLAND	531275	Multi-cell Mining Claim	2020-11-16	8400	2439
	STRICKLAND	531278	Multi-cell Mining Claim	2020-11-16	800	0
	GOURLAY	531220	Multi-cell Mining Claim	2020-12-03	9600	0
	GOURLAY	531225	Multi-cell Mining Claim	2020-12-03	9600	0
	GOURLAY	531229	Multi-cell Mining Claim	2020-12-03	10000	0
	GOURLAY	531231	Multi-cell Mining Claim	2020-12-03	10000	0
	GOURLAY,HAMBLETON	531224	Multi-cell Mining Claim	2020-12-03	9600	0
	GOURLAY,HAMBLETON	531226	Multi-cell Mining Claim	2020-12-03	10000	0
	GOURLAY,HAMBLETON	531230	Multi-cell Mining Claim	2020-12-03	8800	0
	GOURLAY,HAMBLETON	531243	Multi-cell Mining Claim	2020-12-03	10000	0
	GOURLAY,HAMBLETON,STRICKLAND	531222	Multi-cell Mining Claim	2020-12-03	6200	0
	GOURLAY,STRICKLAND	531221	Multi-cell Mining Claim	2020-12-03	10000	0
	HAMBLETON	531228	Multi-cell Mining Claim	2020-12-03	6000	0
	ODLUM,STRICKLAND	531270	Multi-cell Mining Claim	2020-12-03	5000	0
	STRICKLAND	531167	Multi-cell Mining Claim	2020-12-03	8400	0
	STRICKLAND	531170	Multi-cell Mining Claim	2020-12-03	9200	0
	STRICKLAND	531176	Multi-cell Mining Claim	2020-12-03	10000	0
	STRICKLAND	531179	Multi-cell Mining Claim	2020-12-03	8400	0
	STRICKLAND	531181	Multi-cell Mining Claim	2020-12-03	9600	0
	STRICKLAND	531185	Multi-cell Mining Claim	2020-12-03	9600	0
	STRICKLAND	531195	Multi-cell Mining Claim	2020-12-03	8800	0
	STRICKLAND	531196	Multi-cell Mining Claim	2020-12-03	8800	0
	STRICKLAND	531223	Multi-cell Mining Claim	2020-12-03	7400	0
	STRICKLAND	531272	Multi-cell Mining Claim	2020-12-03	1200	0
4260617	STRICKLAND	110507	Single Cell Mining Claim	2020-12-03	200	0
	BAYFIELD,HAMBLETON,MATTHEWS	531242	Multi-cell Mining Claim	2020-12-17	8000	0
	GOURLAY,HAMBLETON	531241	Multi-cell Mining Claim	2020-12-17	9600	0
	HAMBLETON	531244	Multi-cell Mining Claim	2020-12-17	10000	0
	HAMBLETON	531245	Multi-cell Mining Claim	2020-12-17	9600	0
	HAMBLETON	531246	Multi-cell Mining Claim	2020-12-17	9600	0
	HAMBLETON	531247	Multi-cell Mining Claim	2020-12-17	9600	0
	HAMBLETON	531264	Multi-cell Mining Claim	2020-12-17	9600	0
	BAYFIELD	531235	Multi-cell Mining Claim	2020-12-22	8000	0
	BAYFIELD	531236	Multi-cell Mining Claim	2020-12-22	8000	0
	BAYFIELD	531237	Multi-cell Mining Claim	2020-12-22	8000	0
	BAYFIELD	531238	Multi-cell Mining Claim	2020-12-22	9200	0
	BAYFIELD	531239	Multi-cell Mining Claim	2020-12-22	1600	0
	BAYFIELD,GOURLAY	531233	Multi-cell Mining Claim	2020-12-22	10000	0
	BAYFIELD,GOURLAY	531234	Multi-cell Mining Claim	2020-12-22	8000	0
	BAYFIELD,GOURLAY,HAMBLETON	531240	Multi-cell Mining Claim	2020-12-22	9600	0
	GOURLAY	531232	Multi-cell Mining Claim	2020-12-22	9600	0
4260661	ODLUM	137166	Boundary Cell Mining Claim	2020-12-23	200	930
4260661	ODLUM	156716	Boundary Cell Mining Claim	2020-12-23	200	548
4260661	ODLUM	142645	Boundary Cell Mining Claim	2020-12-23	200	151
4260664	ODLUM	308490	Boundary Cell Mining Claim	2020-12-23	200	111
4260664	ODLUM	168606	Boundary Cell Mining Claim	2020-12-23	200	174
4260665	ODLUM	112652	Boundary Cell Mining Claim	2020-12-23	200	0
4260665	ODLUM	199956	Boundary Cell Mining Claim	2020-12-23	200	298
4260665	ODLUM	155301	Boundary Cell Mining Claim	2020-12-23	200	236
	HAMBLETON	531210	Multi-cell Mining Claim	2020-12-23	6800	6082

	HAMBLETON	531249	Multi-cell Mining Claim	2020-12-23	1200	0
	HAMBLETON	531257	Multi-cell Mining Claim	2020-12-23	10000	0
	HAMBLETON	531268	Multi-cell Mining Claim	2020-12-23	4000	0
	HAMBLETON,ODLUM	531209	Multi-cell Mining Claim	2020-12-23	2400	1604
	ODLUM	531026	Multi-cell Mining Claim	2020-12-23	10000	0
	ODLUM	531182	Multi-cell Mining Claim	2020-12-23	10000	0
	ODLUM	531199	Multi-cell Mining Claim	2020-12-23	800	0
	ODLUM	531200	Multi-cell Mining Claim	2020-12-23	10000	0
	ODLUM, TEDDER	531027	Multi-cell Mining Claim	2020-12-23	9600	0
	ODLUM, TEDDER	531154	Multi-cell Mining Claim	2020-12-23	10000	0
	ODLUM, TEDDER	531173	Multi-cell Mining Claim	2020-12-23	10000	0
	ODLUM, TEDDER	531174	Multi-cell Mining Claim	2020-12-23	9600	0
	STRICKLAND, TEDDER	531156	Multi-cell Mining Claim	2020-12-23	10000	0
	TEDDER	531031	Multi-cell Mining Claim	2020-12-23	9600	0
	TEDDER	531153	Multi-cell Mining Claim	2020-12-23	8800	0
	TEDDER	531155	Multi-cell Mining Claim	2020-12-23	10000	0
	TEDDER	531172	Multi-cell Mining Claim	2020-12-23	10000	0
	ODLUM	531203	Multi-cell Mining Claim	2020-12-31	7000	0
	ODLUM	531204	Multi-cell Mining Claim	2020-12-31	3800	0
4288587	NAMEIGOS	125769	Boundary Cell Mining Claim	2021-01-08	200	0
4288587	NAMEIGOS	286343	Boundary Cell Mining Claim	2021-01-08	200	0
4288587	NAMEIGOS	286342	Boundary Cell Mining Claim	2021-01-08	200	0
4288587	NAMEIGOS	286341	Boundary Cell Mining Claim	2021-01-08	200	0
4288587	NAMEIGOS	274252	Boundary Cell Mining Claim	2021-01-08	200	0
4288587	NAMEIGOS	266283	Boundary Cell Mining Claim	2021-01-08	200	0
4288587	NAMEIGOS	189153	Boundary Cell Mining Claim	2021-01-08	200	11
4288587	NAMEIGOS	170388	Boundary Cell Mining Claim	2021-01-08	200	0
4288588	NAMEIGOS	102955	Boundary Cell Mining Claim	2021-01-08	200	0
4288588	NAMEIGOS	322925	Boundary Cell Mining Claim	2021-01-08	200	0
4288588	NAMEIGOS	286384	Boundary Cell Mining Claim	2021-01-08	200	0
4288588	NAMEIGOS	227074	Boundary Cell Mining Claim	2021-01-08	200	0
4288588	NAMEIGOS	219128	Boundary Cell Mining Claim	2021-01-08	200	0
4288588	NAMEIGOS	189186	Boundary Cell Mining Claim	2021-01-08	200	0
4288588	NAMEIGOS	170921	Boundary Cell Mining Claim	2021-01-08	200	0
4288588	NAMEIGOS	125817	Boundary Cell Mining Claim	2021-01-08	200	149
4288588	NAMEIGOS	102957	Boundary Cell Mining Claim	2021-01-08	200	0
4288588	NAMEIGOS	102956	Boundary Cell Mining Claim	2021-01-08	200	0
4288589	NAMEIGOS	287639	Boundary Cell Mining Claim	2021-01-08	200	0
4288589	NAMEIGOS	267591	Boundary Cell Mining Claim	2021-01-08	200	0
4288589	NAMEIGOS	220366	Boundary Cell Mining Claim	2021-01-08	200	423
4288589	NAMEIGOS	208950	Boundary Cell Mining Claim	2021-01-08	200	0
4288589	NAMEIGOS	173870	Boundary Cell Mining Claim	2021-01-08	200	0
4288589	NAMEIGOS	155027	Boundary Cell Mining Claim	2021-01-08	200	0
4288589	NAMEIGOS	117345	Boundary Cell Mining Claim	2021-01-08	200	0
4288589	NAMEIGOS	335993	Single Cell Mining Claim	2021-01-08	400	0
4288589	NAMEIGOS	220373	Single Cell Mining Claim	2021-01-08	400	423
4288589	NAMEIGOS	208958	Single Cell Mining Claim	2021-01-08	400	0
4288231	NAMEIGOS	104062	Boundary Cell Mining Claim	2021-01-09	200	0
4288231	NAMEIGOS	225048	Boundary Cell Mining Claim	2021-01-09	200	0
4288231	NAMEIGOS	159665	Boundary Cell Mining Claim	2021-01-09	200	0
	ABRAHAM, COOPER, TEDDER	531096	Multi-cell Mining Claim	2021-01-09	10000	0
	ABRAHAM, TEDDER	531094	Multi-cell Mining Claim	2021-01-09	10000	0
	ABRAHAM, TEDDER	531095	Multi-cell Mining Claim	2021-01-09	10000	0
	COOPER	531112	Multi-cell Mining Claim	2021-01-09	10000	0
	COOPER	531139	Multi-cell Mining Claim	2021-01-09	9200	0
	COOPER	531163	Multi-cell Mining Claim	2021-01-09	6000	0
	COOPER, STRICKLAND	531166	Multi-cell Mining Claim	2021-01-09	800	0
	COOPER, STRICKLAND, TEDDER	531152	Multi-cell Mining Claim	2021-01-09	6800	0
	COOPER, TEDDER	531097	Multi-cell Mining Claim	2021-01-09	10000	0
	COOPER, TEDDER	531100	Multi-cell Mining Claim	2021-01-09	9600	0
	COOPER, TEDDER	531111	Multi-cell Mining Claim	2021-01-09	10000	0
	COOPER, TEDDER	531151	Multi-cell Mining Claim	2021-01-09	10000	0
	MOSAMBIK	531287	Multi-cell Mining Claim	2021-01-09	10000	0
	MOSAMBIK	531348	Multi-cell Mining Claim	2021-01-09	8800	0

	MOSAMBIK,NAMEIGOS	531286	Multi-cell Mining Claim	2021-01-09	10000	0
	MOSAMBIK,NAMEIGOS	531288	Multi-cell Mining Claim	2021-01-09	8400	0
	MOSAMBIK,NAMEIGOS	531347	Multi-cell Mining Claim	2021-01-09	10000	0
	MOSAMBIK,NAMEIGOS	531349	Multi-cell Mining Claim	2021-01-09	6400	0
	MOSAMBIK,NAMEIGOS	531350	Multi-cell Mining Claim	2021-01-09	10000	0
	NAMEIGOS	531283	Multi-cell Mining Claim	2021-01-09	10000	0
	NAMEIGOS	531284	Multi-cell Mining Claim	2021-01-09	9200	0
	NAMEIGOS	531285	Multi-cell Mining Claim	2021-01-09	10000	0
	NAMEIGOS	531351	Multi-cell Mining Claim	2021-01-09	9600	0
	NAMEIGOS	531352	Multi-cell Mining Claim	2021-01-09	10000	0
	TEDDER	531046	Multi-cell Mining Claim	2021-01-09	8800	0
	TEDDER	531047	Multi-cell Mining Claim	2021-01-09	9600	0
	TEDDER	531079	Multi-cell Mining Claim	2021-01-09	9200	0
	TEDDER	531098	Multi-cell Mining Claim	2021-01-09	9600	0
	TEDDER	531099	Multi-cell Mining Claim	2021-01-09	9600	0
	COOPER	531126	Single Cell Mining Claim	2021-01-09	400	0
04288250	MOSAMBIK	125756	Single Cell Mining Claim	2021-01-09	400	0
04288250	MOSAMBIK	293144	Single Cell Mining Claim	2021-01-09	400	0
04288250	MOSAMBIK	274244	Single Cell Mining Claim	2021-01-09	400	0
04288250	MOSAMBIK	273605	Single Cell Mining Claim	2021-01-09	400	0
04288250	MOSAMBIK	153728	Single Cell Mining Claim	2021-01-09	400	0
4288237	MOSAMBIK	118071	Single Cell Mining Claim	2021-01-09	400	0
4288237	MOSAMBIK	273604	Single Cell Mining Claim	2021-01-09	400	0
4288237	MOSAMBIK	226382	Single Cell Mining Claim	2021-01-09	400	0
4288237	MOSAMBIK	188477	Single Cell Mining Claim	2021-01-09	400	0
4288237	MOSAMBIK	170250	Single Cell Mining Claim	2021-01-09	400	0
4288249	MOSAMBIK	117527	Single Cell Mining Claim	2021-01-09	400	0
4288249	MOSAMBIK	336697	Single Cell Mining Claim	2021-01-09	400	0
4288249	MOSAMBIK	276267	Single Cell Mining Claim	2021-01-09	400	0
4288249	MOSAMBIK	221060	Single Cell Mining Claim	2021-01-09	400	0
4288237	MOSAMBIK,NAMEIGOS	344618	Single Cell Mining Claim	2021-01-09	400	0
4288237	MOSAMBIK,NAMEIGOS	265657	Single Cell Mining Claim	2021-01-09	400	0
4288230	NAMEIGOS	103256	Single Cell Mining Claim	2021-01-09	400	0
4288230	NAMEIGOS	127131	Single Cell Mining Claim	2021-01-09	400	0
4288232	NAMEIGOS	102261	Single Cell Mining Claim	2021-01-09	400	0
4288232	NAMEIGOS	276303	Single Cell Mining Claim	2021-01-09	400	0
4288232	NAMEIGOS	229063	Single Cell Mining Claim	2021-01-09	400	0
4288232	NAMEIGOS	219164	Single Cell Mining Claim	2021-01-09	400	0
4288232	NAMEIGOS	170953	Single Cell Mining Claim	2021-01-09	400	0
4288232	NAMEIGOS	118285	Single Cell Mining Claim	2021-01-09	400	0
4288233	NAMEIGOS	286410	Single Cell Mining Claim	2021-01-09	400	0
4288233	NAMEIGOS	189211	Single Cell Mining Claim	2021-01-09	400	0
4288233	NAMEIGOS	170954	Single Cell Mining Claim	2021-01-09	400	0
4288233	NAMEIGOS	154316	Single Cell Mining Claim	2021-01-09	400	0
4288233	NAMEIGOS	125852	Single Cell Mining Claim	2021-01-09	400	0
4288233	NAMEIGOS	118287	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531290	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531291	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531292	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531293	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531294	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531295	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531296	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531297	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531298	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531299	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531300	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531301	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531302	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531304	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531305	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531306	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531309	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531316	Single Cell Mining Claim	2021-01-09	400	0











	NAMEIGOS	531317	Single Cell Mining Claim	2021-01-09	400	0
	COOPER	531115	Multi-cell Mining Claim	2021-01-10	9200	0
	COOPER	531116	Multi-cell Mining Claim	2021-01-10	9600	0
	COOPER	531117	Multi-cell Mining Claim	2021-01-10	10000	0
	COOPER	531118	Multi-cell Mining Claim	2021-01-10	10000	0
	COOPER,STRICKLAND	531119	Multi-cell Mining Claim	2021-01-10	8000	0
	COOPER,STRICKLAND	531120	Multi-cell Mining Claim	2021-01-10	6000	0
	COOPER,STRICKLAND	531121	Multi-cell Mining Claim	2021-01-10	6400	0
	COOPER,STRICKLAND	531164	Multi-cell Mining Claim	2021-01-10	7200	0
	ABRAHAM	531086	Multi-cell Mining Claim	2021-01-18	9600	0
	ABRAHAM,COOPER	531087	Multi-cell Mining Claim	2021-01-18	9600	0
4281802	NAMEIGOS	134919	Boundary Cell Mining Claim	2021-02-16	200	0
4281802	NAMEIGOS	302908	Boundary Cell Mining Claim	2021-02-16	200	0
4281802	NAMEIGOS	281507	Boundary Cell Mining Claim	2021-02-16	200	0
4281802	NAMEIGOS	151061	Boundary Cell Mining Claim	2021-02-16	200	0
4281802	NAMEIGOS	150356	Boundary Cell Mining Claim	2021-02-16	200	0
4281802	NAMEIGOS	141005	Boundary Cell Mining Claim	2021-02-16	200	1139
4281805	NAMEIGOS	122945	Boundary Cell Mining Claim	2021-02-16	200	0
4281805	NAMEIGOS	290157	Boundary Cell Mining Claim	2021-02-16	200	0
4281805	NAMEIGOS	186333	Boundary Cell Mining Claim	2021-02-16	200	0
4281805	NAMEIGOS	133689	Boundary Cell Mining Claim	2021-02-16	200	0
4285671	NAMEIGOS	186239	Boundary Cell Mining Claim	2021-02-16	200	0
4285671	NAMEIGOS	319552	Boundary Cell Mining Claim	2021-02-16	200	0
4285671	NAMEIGOS	282751	Boundary Cell Mining Claim	2021-02-16	200	0
4285671	NAMEIGOS	186240	Boundary Cell Mining Claim	2021-02-16	200	0
4285672	NAMEIGOS	157827	Boundary Cell Mining Claim	2021-02-16	200	0
4285672	NAMEIGOS	344511	Boundary Cell Mining Claim	2021-02-16	200	0
4285672	NAMEIGOS	238950	Boundary Cell Mining Claim	2021-02-16	200	0
	NAMEIGOS	531332	Multi-cell Mining Claim	2021-02-16	9600	768
	NAMEIGOS	531333	Multi-cell Mining Claim	2021-02-16	4800	0
	NAMEIGOS	531334	Multi-cell Mining Claim	2021-02-16	10000	0
	NAMEIGOS	531336	Multi-cell Mining Claim	2021-02-16	9200	0
	NAMEIGOS	531337	Multi-cell Mining Claim	2021-02-16	9200	0
	NAMEIGOS	531338	Multi-cell Mining Claim	2021-02-16	9600	0
	NAMEIGOS	531341	Multi-cell Mining Claim	2021-02-16	800	0
	NAMEIGOS	531345	Multi-cell Mining Claim	2021-02-16	800	0
	NAMEIGOS	531346	Multi-cell Mining Claim	2021-02-16	1600	496
	ABRAHAM	531081	Multi-cell Mining Claim	2021-02-22	10000	0
	ABRAHAM	531082	Multi-cell Mining Claim	2021-02-22	9600	0
	ABRAHAM	531083	Multi-cell Mining Claim	2021-02-22	9600	0
	ABRAHAM,TEDDER	531048	Multi-cell Mining Claim	2021-02-22	9000	859
	ABRAHAM,TEDDER	531080	Multi-cell Mining Claim	2021-02-22	9600	0
	NAMEIGOS,STRICKLAND	531276	Multi-cell Mining Claim	2021-02-22	10000	0
	NAMEIGOS,STRICKLAND	531279	Multi-cell Mining Claim	2021-02-22	4000	0
	STRICKLAND	531160	Multi-cell Mining Claim	2021-02-22	8400	0
	STRICKLAND	531161	Multi-cell Mining Claim	2021-02-22	8400	0
	STRICKLAND	531277	Multi-cell Mining Claim	2021-02-22	7200	0
	ABRAHAM,COOPER	531084	Multi-cell Mining Claim	2021-03-10	9600	0
	COOPER	531085	Multi-cell Mining Claim	2021-03-10	9600	0
	COOPER	531088	Multi-cell Mining Claim	2021-03-10	9600	0
	COOPER	531089	Multi-cell Mining Claim	2021-03-10	8000	0
	COOPER	531090	Multi-cell Mining Claim	2021-03-10	9600	0
	COOPER	531091	Multi-cell Mining Claim	2021-03-10	9600	0
	COOPER	531092	Multi-cell Mining Claim	2021-03-10	9600	0
	COOPER	531093	Multi-cell Mining Claim	2021-03-10	10000	0
	COOPER	531113	Multi-cell Mining Claim	2021-03-10	10000	0
	COOPER	531114	Multi-cell Mining Claim	2021-03-10	10000	0
	ODLUM	531205	Multi-cell Mining Claim	2021-03-27	4800	278
	HAMBLETON,ODLUM	531206	Multi-cell Mining Claim	2021-04-26	8200	345634
	BAYFIELD	549597	Multi-cell Mining Claim	2021-05-10	9600	0
	BAYFIELD	549623	Multi-cell Mining Claim	2021-05-10	9200	0
	BAYFIELD	549624	Multi-cell Mining Claim	2021-05-10	9600	0
	BAYFIELD	549625	Multi-cell Mining Claim	2021-05-10	8800	0
	BAYFIELD,BEATON	549626	Multi-cell Mining Claim	2021-05-10	9200	0

	BAYFIELD,BEATON	549916	Multi-cell Mining Claim	2021-05-10	10000	0
	ODLUM	531207	Multi-cell Mining Claim	2021-07-02	1600	36193
	HAMBLETON	531214	Multi-cell Mining Claim	2021-07-20	2400	105705
	GOURLAY,HAMBLETON	531219	Multi-cell Mining Claim	2021-11-20	9200	11993
	HAMBLETON	531211	Multi-cell Mining Claim	2021-12-23	3200	2381
	ODLUM	531202	Multi-cell Mining Claim	2021-12-23	9200	19310
	HAMBLETON	531212	Multi-cell Mining Claim	2021-12-31	7200	47190
	HAMBLETON	531215	Multi-cell Mining Claim	2021-12-31	3600	211070
	HAMBLETON	531216	Multi-cell Mining Claim	2021-12-31	1000	467817
	HAMBLETON	531217	Multi-cell Mining Claim	2021-12-31	2200	342089
	HAMBLETON	531218	Multi-cell Mining Claim	2021-12-31	1800	126580
	HAMBLETON,ODLUM	531208	Multi-cell Mining Claim	2021-12-31	5200	9687
	HAMBLETON	531259	Multi-cell Mining Claim	2022-12-23	1200	851
	COOPER	564960	Multi-cell Mining Claim	11/29/2021	Active	100
	COOPER,					
	DOUCETT	564961	Multi-cell Mining Claim	11/29/2021	Active	100
	COOPER,					
	DOUCETT,	564909	Multi-cell Mining Claim	11/29/2021	Active	100
	NAMEIGOS, STRICKLAND					
	COOPER, STRICKLAND	564959	Multi-cell Mining Claim	11/29/2021	Active	100
	DOUCETT, NAMEIGOS	565900	Multi-cell Mining Claim	11/29/2021	Active	100
	NAMEIGOS	564962	Multi-cell Mining Claim	11/29/2021	Active	100
	NAMEIGOS	565901	Multi-cell Mining Claim	11/29/2021	Active	100
	NAMEIGOS, STRICKLAND	564908	Multi-cell Mining Claim	11/29/2021	Active	100
	NAMEIGOS, STRICKLAND	564963	Multi-cell Mining Claim	11/29/2021	Active	100
	STRICKLAND	564958	Multi-cell Mining Claim	11/29/2021	Active	100
	STRICKLAND	564964	Multi-cell Mining Claim	11/29/2021	Active	100
	STRICKLAND	564965	Multi-cell Mining Claim	11/29/2021	Active	100
	STRICKLAND	564966	Multi-cell Mining Claim	11/29/2021	Active	100











Appendix B – Geological Legend

GEOLOGICAL LEGEND











Mafic Intrusives









-  7A-Diabase
-  7B-Diorite
-  7C-Lamprophyre
-  6A-Diorite
-  6B-Gabbro
-  6C-Amphibillite
-  6D-Peridotite
-  6G-Pyroxenite
-  6E-Intermediate Dyke
-  6F-Mafic Dyke










Felsic Intrusives

-  5A-Granite
-  5B-Granodiorite
-  5D-Syenite
-  4A-Quartz Porphyry
-  4B-Feldspar Porphyry
-  4C-Quartz-Feldspar Porphyry
-  4D-Felsite
-  4E-Pegmatite
-  4F-Felsic Dyke
-  4ALT-Altered Feldspar Porphyry

Sediments

-  3A-Greywacke
-  3ALT-Altered Iron Formation w/sulphides
-  3B-Argillite
-  3D-Iron Formation
-  3E-Ferruginous Chert
-  3F-Chert
-  3G-Sulfide Facies Iron Formation
-  3H-Reworked Tuffs
-  3I-Arenite
-  3S-Siltstone

-  OVB-Overburden
-  CAS-Casing
-  BX-Breccia
-  FLT-Fault
-  Frac-Z-Fracture Zone
-  FZ-Fault Zone
-  SH-Shear
-  SZ-Shear Zone

-  UZ-Upper Zone
-  MZ-Middle Zone
-  LZ-Lower Zone
-  QCV-Quartz-Carbonate Vein
-  QTCSW-Quartz-Carbonate Stockwork
-  QTSW-Quartz Stockwork
-  QV-Quartz Vein
-  QZ-Quartz Zone
-  QZ-STR-Quartz Stringer












Intermediate Volcanics

-  2E-Intermediate Tuff

Felsic Volcanics

-  2A-Felsic Massive Flows
-  2B-Felsic Tuff
-  2S-Sericite Schist




Mafic Volcanics

-  1A-Massive Mafic Flows
-  1B-Pillowed Mafic Flows
-  1C-Agglomerate
-  1D-Variolitic Flows
-  1E-Amygdaloidal/Vesicular Flows
-  1F-Flow-top Breccia
-  1G-Amphibolitic Flows
-  1H-Mafic Tuff
-  1I-Volcaniclastic
-  1ALT-Altered Mafic Volcanic
-  1N-Hydrothermally Altered Basalt








Early Mafic Intrusive

-  1Z-Gabbroic with gradational contacts


Ultramafic Volcanics

-  UM-Ultramafic
-  1U-Ultramafic Flows
-  1UT-Ultramafic Talc/Chlorite Altered

Assay Color Legend

-  0 - 0.5
-  0.6 - 1
-  1.1 - 3
-  3.1 - 5
-  5.1 - 8
-  8.1 - 12
-  12.1 - 659

Appendix C – 007 Zone – 2021 Drill Logs

		Hole Number:		007-21-01					
		Drill Rig:		G4-13					
		Claim Number:		531265, 531266					
Location		Drill Hole Orientation		Dates Drilled:		Start Date:	End Date:		
Surface				09/17/2021		09/18/2021			
Planned Coordinates		Azimuth: 120		Drill Contractor: G4 Drilling Canada Ltd.		Start Date:			
Easting	642927					09/18-2021		09/19/2021	
Northing	5415091	Dip: -55		Dates Logged:		Start Date:			
Elevation(m)				09/18-2021		09/19/2021			
Final Pick up		Depth(m): 255.00		Logger 1:		Andrew Wehrfritz			
Easting	642929.8			Logger 2:					
Northing	5415087	Core Size: NQ		Logger 3:					
Elevation(m)	404.20			Assay Lab:		Actlabs			
Casing				Dip Tests					
Purpose of Hole		Follow up on Sample 531265 (11g/t) taken from the 007 Showing.		Depth (m)	Az.	Dip	Mag	Notes	Az Uncor.
				6	116.2	-54.2	58252		123.8
Results				45	121.6	-52.9	55548		129.2
				75	122.4	-52.1	55735		130
				105	116.5	-51.9	57089		124.1
				135	121	-50.5	55517		128.6
				165	120.6	-49.9	55220		128.2
				195	126.8	-49	53936		134.4
				225	122.5	-47.8	55909		130.1
				255	121.9	-47.2	55433		129.5
Comments					-7.6				
					-7.6				
					-7.6				
					-7.6				
					-7.6				
					-7.6				
					-7.6				
					-7.6				
Azimuth corrected to 7.6 degrees west declination					-7.6				
					-7.6				
					-7.6				


BHID	FROM_M	TO_M	LENGTH_M	ROCI	ROCK	COMMENTS
007-21-01	0	3	3	CAS	Casing	
007-21-01	3	19.3	16.3	1B	Pillowed Flows	fine to medium grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Some brown biotite banding throughout unit. Quartz and calcite stringers and wisps intermittently throughout the unit; quartz veinlet from 11.04 to 11.07. Vuggy texture at 16.5 to 17m. Minor millimetric garnets.
007-21-01	19.3	22.15	2.85	2B	Felsic Tuff	fg, grey to purple, highly siliceous unit with a banded/bedded texture. Unit is composed predominately of fg silica/feldspar with lesser amounts of mica. Some bands appear to be more siliceous than others, dark green mafic bands observed intermittently throughout as well. Up to 2% po/py stringers. Change in foliation observed from 22 to 22.15; potential fold hinge.
007-21-01	22.15	35	12.85	1Z	Gabbroic with gradational contacts	Fine to coarse grained, grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with disseminated biotite. weak to moderate foliation.
007-21-01	35	39.74	4.74	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with disseminated biotite. Moderate foliation. Trace blebby py.
007-21-01	39.74	45.18	5.44	1Z	Gabbroic with gradational contacts	Fine to coarse grained, grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with disseminated biotite. weak to moderate foliation.
007-21-01	45.18	51	5.82	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with interstitial biotite. Moderate foliation. Sub millimetric specs of white (plag?) throughout; potentially

007-21-01	51	62.75	11.75	1B	Pillowed Flows	fine to medium grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Some brown biotite banding throughout unit. Quartz and calcite stringers and wisps intermittently throughout the unit. High degree of silicification from 51 to 51.3 associated with up to 4% sulphides (py). qtz veinlet at 52.15 with up to 2% sulphides. Minor 4b
007-21-01	62.75	74.94	12.19	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with interstitial biotite. Moderate foliation.
007-21-01	74.94	78.6	3.66	2B	Felsic Tuff	fg, grey to purple, highly siliceous unit with a banded/bedded texture. Unit is composed predominately of fg silica/feldspar with lesser amounts of mica. Some bands appear to be more siliceous than others, dark green mafic bands observed intermittently throughout as well. Approximately 1% py stringers. Trace cpy.
007-21-01	78.6	84.46	5.86	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with interstitial biotite. Moderate foliation.
007-21-01	84.46	87.66	3.2	2B	Felsic Tuff	fg, grey to purple, highly siliceous unit with a banded/bedded texture. Unit is composed predominately of fg silica/feldspar with lesser amounts of mica. Some bands appear to be more siliceous than others, dark green mafic bands observed intermittently throughout as well. High degree of quartz flooding and veining from 86.3 to 87.66 associated with up to 5% po/py stringers in this interval. Narrow sections of feldspar porphyry within this section. <1% blebby sph.
007-21-01	87.66	113	25.34	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with interstitial biotite. Moderate foliation. Healed brecciated texture in the first meter associated with <1% blebby po and py. Quartz veinlets intermittently from 92 to 98m.
007-21-01	113	141	28	1B	Pillowed Flows	fine to medium grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Some brown biotite banding throughout unit. Quartz and calcite stringers and wisps intermittently throughout the unit. Minor 4b intrusions

007-21-01	141	144	3	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with interstitial biotite. Moderate foliation. Quartz lens and minor amounts of quartz flooding from 141.47 to 142 associated with blebby po / py.
007-21-01	144	168.9	24.93	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Minor amounts of biotite banding. Minor amounts of millimetric garnet porphyroblasts. Quartz stringers. folding from 168 to 168.5m.
007-21-01	168.93	170.3	1.4	4B	Feldspar Porphyry	fg to mg, grey feldspar porphyry with a massive to porphyritic texture. Unit is composed predominately of a fine grained felsic and biotite ground mass with some faint strained millimetric sized phenocrysts. Minor amounts of fracture controlled sericite alteration throughout.
007-21-01	170.33	175.8	5.49	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with interstitial biotite. Moderate foliation. Trace blebby py.
007-21-01	175.82	188.6	12.82	1B	Pillowed Flows	fine to medium grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Minor amounts of biotite banding.
007-21-01	188.64	190.6	1.91	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with interstitial biotite. Moderate foliation.
007-21-01	190.55	192.3	1.77	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Minor amounts of biotite banding.
007-21-01	192.32	195	2.68	1Z	Gabbroic with gradational contacts	Fine to coarse grained, grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with disseminated biotite. weak to moderate foliation.

007-21-01	195	199.9	4.85	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Minor amounts of biotite banding. High frequency fracturing from 195 to 195.5m.
007-21-01	199.85	202	2.11	3D	Iron Formation	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. High frequency of Millimetric garnet porphyroblasts. Up to 3% blebby/disseminated po. Minor to moderate magnetism. centimetric sized quartz lenses observed intermittently.
007-21-01	201.96	205	3.07	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with interstitial biotite. Moderate foliation. Moderate Magnetism
007-21-01	205.03	207.4	2.39	1U	Ultramafic Flows	fg, light grey mafic unit with a massive texture. Unit is highly magnetic and contains a high degree of talc alteration.
007-21-01	207.42	216.7	9.24	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Minor amounts of biotite banding. quartz veins/veinlets intermittently.
007-21-01	216.66	218.7	2.04	5B	Granodiorite	fg to mg, light grey felsic unit with minor black speckling. Unit is composed predominately of quartz and white plagioclase. Minor amount of biotite.
007-21-01	218.7	220.5	1.81	3D	Iron Formation	fg, grey, highly siliceous unit with a banded/bedded texture. Unit is composed predominately of fg silica/feldspar with lesser amounts of mica. Fault breccia texture at 219m.
007-21-01	220.51	223.9	3.34	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Minor amounts of biotite banding. High degree of undulating thin calcite/felsic wisps and stringers from 221 to 222m.
007-21-01	223.85	225.7	1.82	5B	Granodiorite	fg to mg, light grey felsic unit with minor black speckling. Unit is composed predominately of quartz and white plagioclase. Minor amount of biotite.

007-21-01	225.67	227.9	2.18	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Minor amounts of biotite banding.
007-21-01	227.85	229.4	1.53	5B	Granodiorite	fg to mg, light grey felsic unit with minor black speckling. Unit is composed predominately of quartz and white plagioclase. Minor amount of biotite. Fault breccia texture in sections, frequency healed fractures with Ser? alteration halos.
007-21-01	229.38	255	25.62	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Millimetric garnet porphyroblasts from 233 to 237 associate with an increased degree of biotite banding and occasional quartz lenses. Up to 1% blebby/disseminated po. Minor to moderate magnetism.


		Hole Number:	007-21-02				
		Drill Rig:	G4-13				
		Claim Number:	531265, 531266				
Location		Drill Hole Orientation		Dates Drilled:	Start Date:	End Date:	
Surface				09/19/2021	09/23/2021		
Planned Coordinates		Azimuth:	105	Drill Contractor:	G4 Drilling Canada Ltd.		
Easting	642927						
Northing	5415091	Dip:	-55	Dates Logged:	Start Date:	End Date:	
Elevation(m)					09/20/2021	09/24/2021	
Final Pick up		Depth(m):	273.00	Logger 1:	Andrew Wehrfritz		
Easting	642929.8			Logger 2:	Jeremy Hietala		
Northing	5415087	Core Size:	NQ	Logger 3:			
Elevation(m)	404.20			Assay Lab:	Actlabs		
Casing							
Purpose of Hole	Follow up on 785760 (4.4 g/t Au, 200 g/t Ag) outcrop sample from the 007 showing	Dip Tests					
		Depth (m)	Az.	Dip	Mag	Notes	Az Uncor.
Results		15	103.2	-55.2	56359		110.8
		45	104	-54.9	55615		111.6
		75	104.9	-54.4	55557		112.5
		135	103.5	-52.7	55462		111.1
		165	104.5	-51.5	55408		112.1
		195	105.2	-50.9	55491		112.8
		225	104.6	-50.3	55681		112.2
		255	105	-49.8	55470		112.6
Comments		273	105.1	-49.3	55141		112.7
				-7.6			
				-7.6			
				-7.6			
				-7.6			
				-7.6			
				-7.6			
Azimuth corrected to 7.6 degrees west declination				-7.6			
				-7.6			
				-7.6			

BHID	FROM_M	TO_M	LENGTH_M	ROCK_CODE	ROCK	COMMENTS
007-21-02	0	2	2	CAS	Casing	Casing
007-21-02	2	8.2	6.2	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Minor amounts of biotite banding. qtz vein/veinlet at 11.36 and 12.46
007-21-02	8.2	9.83	1.63	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with interstitial biotite. Moderate foliation.
007-21-02	9.83	17.81	7.98	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Minor amounts of biotite banding. vuggy texture from 12.7 to 12.6m.
007-21-02	17.81	20.45	2.64	3D	Iron Formation	fg, grey, highly siliceous unit with a banded/bedded texture. Unit is composed predominately of fg silica/feldspar with lesser amounts of mica. 1-3% po stringers. weakly magnetic. beds appear folded in areas.
007-21-02	20.45	22.32	1.87	4B	Feldspar Porphyry	fg to mg, grey feldspar porphyry with a massive to porphyritic texture. Unit is composed predominately of a fine grained felsic and biotite ground mass with some faint strained millimetric sized phenocrysts. Minor amounts of fracture controlled sericite alteration throughout.
007-21-02	22.32	36.33	14.01	1Z	Gabbroic with gradational contacts	Fine to coarse grained, grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with disseminated biotite. weak to moderate foliation. bull quartz vein at 22.75m
007-21-02	36.33	38.07	1.74	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with interstitial biotite. Moderate foliation.
007-21-02	38.07	43.35	5.28	1Z	Gabbroic with gradational contacts	Fine to coarse grained, grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with disseminated biotite. weak to moderate foliation. bull quartz vein from 39.94 to 40m.

007-21-02	43.35	49.2	5.85	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with interstitial biotite. Moderate foliation.
007-21-02	49.2	61.7	12.5	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Minor amounts of biotite banding. Quartz vein at 49.25 to 49.3. Series of quartz stringers from 49.3 to 51.1m Approximately 2% py/po stringers in this interval.
007-21-02	61.7	66.16	4.46	1Z	Gabbroic with gradational contacts	Fine to coarse grained, grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with disseminated biotite. weak to moderate foliation. Bull quartz veinlet at 62.68m. Minor sections of 4b.
007-21-02	66.16	73.17	7.01	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with interstitial biotite. Moderate foliation. smokey Quartz veinlets at 70.65, associated with blebby po/py.
007-21-02	73.17	75.27	2.1	3D	Iron Formation	fg, grey to purple, highly siliceous unit with a banded/bedded texture. Unit is composed predominately of fg silica/feldspar with lesser amounts of mica. 1% po stringers <1% blebby sph. weakly magnetic.
007-21-02	75.27	137.1	61.83	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Minor amounts of biotite banding. high frequency of qtz veining from 76.4 to 77.11m associated with <1% blebby py; trace cpy at 77.1. Series of qtz veining from 81.8m to 82.52m associated with <1% blebby po/py and spec of silvery mineral with a metallic lustre, tr sph. intermittant Quartz stringers, wisps from 104.4 to 113; some of which associated with minor sulphides. Quartz striners/veinlets from 126 to 130m.
007-21-02	137.1	139	1.9	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with interstitial biotite. Moderate foliation. smokey

007-21-02	139	165.75	26.75	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Minor amounts of biotite banding. Quartz lenses and veins intermittently throughout. Quartz lens containing po/py/tr cpy at 141.25m. Fault/fracture zone from 147.8 to 148m. minor amount of garnet alteration at 164m.
007-21-02	165.75	169.25	3.5	3D	Iron Formation	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase. High frequency of Millimetric to centimetric garnet porphyroblasts throughout. Moderate to high magnetism. Up to 1% po throughout. 5-10 cm wide sections of more brown/purple mineralization (increased bt concentration?). Diffuse upper contact with previous unit. Quartz stringers/veinlets in sections.
007-21-02	169.25	174.54	5.29	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Minor amounts of biotite banding.
007-21-02	174.54	176.41	1.87	1Z	Gabbroic with gradational contacts	Fine to coarse grained, grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with disseminated biotite. weak to moderate foliation.
007-21-02	176.41	178.37	1.96	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with interstitial biotite. Moderate foliation. smokey. cm scale Qtz vein with trace sulphides.
007-21-02	178.37	183.18	4.81	1Z	Gabbroic with gradational contacts	Fine to coarse grained, grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with disseminated biotite. weak to moderate foliation.
007-21-02	183.18	187.82	4.64	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Minor amounts of biotite banding.

007-21-02	187.82	189	1.18	4B	Feldspar Porphyry	fg to mg, grey feldspar porphyry with a massive to porphyritic texture. Unit is composed predominately of a fine grained felsic and biotite ground mass with some faint strained millimetric sized phenocrysts. Minor amounts of fracture controlled sericite alteration throughout. .5% disseminated fg py
007-21-02	189	229.13	40.13	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Minor amounts of biotite banding.
007-21-02	229.13	230.8	1.67	4B	Feldspar Porphyry	fg to mg, grey feldspar porphyry with a massive to porphyritic texture. Unit is composed predominately of a fine grained felsic and biotite ground mass with some faint strained millimetric sized phenocrysts. Minor amounts of fracture controlled sericite alteration throughout.
007-21-02	230.8	231.78	0.98	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Minor amounts of biotite banding.
007-21-02	231.78	234	2.22	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with interstitial biotite. Moderate foliation. smokey.
007-21-02	234	263.77	29.77	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Minor amounts of biotite banding. Fg patch of semi-massive Py/Po at 245m.
007-21-02	263.77	265.04	1.27	4D	Felsite	vfg-fg felsic unit with interstitial sericite.
007-21-02	265.04	268.1	3.06	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout.
007-21-02	268.1	273	4.9	1A	Massive Flows	Minor fg blebby Py/Po.

		Hole Number:		007-21-03			
		Drill Rig:		G4-13			
		Claim Number:		531265, 531266			
Location		Drill Hole Orientation		Dates Drilled:		Start Date:	End Date:
Surface				09/22/2021		09/25/2021	
Planned Coordinates		Azimuth:	120	Drill Contractor:		G4 Drilling Canada Ltd.	
Easting	642881						
Northing	5415008.1	Dip:	-55	Dates Logged:		Start Date:	End Date:
Elevation(m)	405			09/22/2021		09/26/2021	
Final Pick up		Depth(m):	252.00	Logger 1:		Derek Smyth	
Easting	642978.3			Logger 2:			
Northing	5415128	Core Size:		Logger 3:		Assay Lab:	
Elevation(m)	404.60						
Casing							
Purpose of Hole	Testing the down strike continuity of the 007 showing (100 meters down strike). Intersects the projected vein at approximately 100 meters down dip	Dip Tests					
		Depth (m)	Az.	Dip	Mag	Notes	Az Uncor.
Results		15	110.8	-54.3	55579		118.4
		45	116.6	-53.8	55282		124.2
		75	116.9	-52.9	55446		124.5
		105	117.1	-51.7	55251		124.7
		135	117	-50.4	55405		124.6
		165	113	-49.9	57386		120.6
		195	117.9	-49.2	55377		125.5
		225	122.1	-48.4	60411		129.7
Comments		252	118.6	-48	55495		126.2
			-7.6				
			-7.6				
			-7.6				
			-7.6				
			-7.6				
			-7.6				
			-7.6				
Azimuth corrected to 7.6 degrees west declination			-7.6				
			-7.6				
			-7.6				

BHID	FROM_M	TO_M	LENGTH_M	ROCK_CODE	ROCK	COMMENTS
007-21-03	0	3	3	CAS	Casing	
007-21-03	3	4.6	1.6	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with interstitial biotite. Moderate foliation.
007-21-03	4.6	6.29	1.69	3D	Iron Formation	fg, grey to bluish grey, highly siliceous unit with a banded/bedded texture. Unit is composed predominately of fg silica/feldspar with lesser amounts of mica. 5-10% py/po stringers and patches throughout. Weakly magnetic. Beds appear folded and wispy in areas.
007-21-03	6.29	23.57	17.28	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Creamy white bands of plagioclase, quartz/carbonate, sericite, epidote are scattered throughout. Vuggy texture is present in some of the white bands. Beige to nearly black mm to cm scale bands of biotite are also scattered throughout. Moderate foliation.
007-21-03	23.57	30.35	6.78	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with interstitial biotite. Minor mm to cm scale bands of plagioclase , quartz/carbonate, sericite, epidote are also present. Weak to moderate foliation.
007-21-03	30.35	31.57	1.22	QV	Quartz Vein	Predominately clean white pristine coarse grained quartz vein. Barren of any sulfides.
007-21-03	31.57	34.6	3.03	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with interstitial biotite. Minor mm to cm scale bands of plagioclase , quartz/carbonate, sericite, epidote are also present. Weak to moderate foliation.
007-21-03	34.6	49.67	15.07	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Creamy white bands of plagioclase, quartz/carbonate, sericite, epidote are scattered throughout. Vuggy texture is present in some of the white bands. Beige to nearly black mm to cm scale bands of biotite are also scattered throughout. Moderate foliation.

007-21-03	49.67	57.5	7.83	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with interstitial biotite. Minor mm to cm scale bands of plagioclase , quartz/carbonate, sericite, epidote are also present. Weak to moderate foliation.
007-21-03	57.5	61.6	4.1	3D	Iron Formation	fg, grey to bluish grey, highly siliceous unit with a banded/bedded texture. Unit is composed predominately of fg silica/feldspar with lesser amounts of mica. Weakly magnetic. Minor unit of massive mafic flow near lower contact. Minor fault gouge is present from 38.70-38.76m.
007-21-03	61.6	81	19.4	1Z	Gabbroic with gradational contacts	Fine to coarse grained, grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with disseminated biotite. weak to moderate foliation. Minor dykes of granitic composition. Calc-silicate alteration is pervasive and patchy and often displays a weakly banded or dendritic pattern.
007-21-03	81	97.85	16.85	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with interstitial biotite. Minor mm to cm scale bands of plagioclase , quartz/carbonate, sericite, epidote are also present. Weak to moderate foliation. Minor units/bands of iron formation are scattered throughout and also define lower contact with pillowed flows.
007-21-03	97.85	108.5	10.65	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Creamy white bands of plagioclase, quartz/carbonate, sericite, epidote are scattered throughout. Vuggy texture is present in some of the white bands. Beige to nearly black mm to cm scale bands of biotite are also scattered throughout. Moderate foliation.
007-21-03	108.5	114.47	5.97	1Z	Gabbroic with gradational contacts	Fine to coarse grained, grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with disseminated biotite. weak to moderate foliation. Minor dykes of granitic composition. Calc-silicate alteration is pervasive and patchy and often displays a weakly banded or dendritic pattern.


007-21-03	114.47	124.5	10.03	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. Unit appears darker grey to almost blue/black from 115.50m to lower contact. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with interstitial biotite. Minor mm to cm scale bands of plagioclase , quartz/carbonate, sericite, epidote are also present. Minor silicified feldspar porphyry dykes less than 30cm occur throughout this unit. Iron formation unit appears to define lower contact with pillowed flows. Weak to moderate foliation.
007-21-03	124.5	125.58	1.08	3D	Iron Formation	fg, grey to bluish grey, highly siliceous unit with a banded/bedded texture. Unit is composed predominately of fg silica/feldspar with lesser amounts of mica. Weakly magnetic. Highly silicified/carbonatized with pervasive sericite alteration.
007-21-03	125.58	156.64	31.06	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Creamy white bands of plagioclase, quartz/carbonate, sericite, epidote are scattered throughout. Vuggy texture is present in some of the white bands. Beige to nearly black mm to cm scale bands of biotite are also scattered throughout. Moderate foliation. Minor units of quartz/feldspar porphyry dykes throughout. Whispy creamy white mm scale quartz/plagioclase bands throughout.
007-21-03	156.64	161.73	5.09	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with interstitial biotite. Minor mm to cm scale bands of plagioclase , quartz/carbonate, sericite, epidote are also present. Weak to moderate foliation. Uncertain if this unit is the same as pillowed flows above and below.
007-21-03	161.73	165.27	3.54	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Creamy white bands of plagioclase, quartz/carbonate, sericite, epidote are scattered throughout. Minor bands of garnet porphyroblasts occur throughout (mm scale). Whispy creamy white mm scale quartz/plagioclase bands throughout. Trace specks of pyrite.

007-21-03	165.27	175.8	10.53	3D	Iron Formation	fg, grey to bluish grey, siliceous unit with a banded/bedded texture. Unit is composed predominately of fg silica/feldspar and pervasive chlorite and with lesser amounts of mica. Weakly magnetic. Moderately foliated. Random mm scale bands of garnet porphyroblasts scattered throughout (3-5% overall). Finely laminated swirling folds are also scattered throughout this unit. Whispy mm scale bands of quartz/plagioclase are common and scattered. Lower contact is defined by bleached/silicified felsic dyke unit. This unit might also be an altered mafic flow however finely laminated folding and garnet porphyroblasts suggest this unit might be an iron formation. This unit also coincides with a similar depth of iron formation logged in 007-21-02.
007-21-03	175.8	177.06	1.26	4F	Felsic Dyke	fg to mg, white to creamy white bleached/silicified/carbonatized felsic dyke unit is composed predominately of a fine grained felsic ground mass of quartz/plagioclase/calcite. Minor amounts of fracture controlled sericite alteration throughout. Massive and weakly magnetic. Subhedral 1-2mm size amphibole and/or magnetite grains with minor amounts of biotite flakes scattered throughout.
007-21-03	177.06	190.33	13.27	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Creamy white bands of plagioclase, quartz/carbonate, sericite, epidote are scattered throughout. Minor bands of garnet porphyroblasts occur throughout (mm scale). Whispy creamy white mm scale quartz/plagioclase bands throughout. Minor <15cm in length altered iron formations are scattered throughout. Minor swarms of quartz veins/veinlets and blebs are scattered throughout this unit.
007-21-03	190.33	191.53	1.2	3D	Iron Formation	fg to mg, white to creamy white with black flakes of biotite. Possible an altered iron formation related to the sequence of iron formations above. Faint bands of mafic mineralization throughout. Creamy white blebs of plagioclase/quartz. Also possibly a fine grained felsic to intermediate dyke. Upper and lower contacts are discrete.
007-21-03	191.53	195.33	3.8	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Creamy white bands of plagioclase, quartz/carbonate, sericite, epidote are scattered throughout. Beige to nearly black mm to cm scale bands of biotite are also scattered throughout. Gradational lower contact.

007-21-03	195.33	206.36	11.03	1Z	Gabbroic with gradational contacts	Fine to coarse grained, grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with disseminated biotite. weak to moderate foliation. Calc-silicate mineralization/alteration is pervasive and patchy and often displays a weakly banded or dendritic pattern. Coarse grained sections tend to wax and wane however unit becomes noticeably coarser down hole to lower contact. Bands of quartz/plagioclase scattered throughout. Trace bleb of pyrite along fracture surfaces from 196-197m. Sharp lower contact.
007-21-03	206.36	215.24	8.88	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Creamy white bands of plagioclase, quartz/carbonate, sericite, epidote are scattered throughout. Beige to nearly black mm to cm scale bands of biotite are also scattered throughout. Gradational lower contact.
007-21-03	215.24	216.86	1.62	1Z	Gabbroic with gradational contacts	Fine to coarse grained, grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with disseminated biotite. weak to moderate foliation. Calc-silicate mineralization/alteration is pervasive and patchy and often displays a weakly banded or dendritic pattern. Trace specks of py/po.
007-21-03	216.86	219.2	2.34	3D	Iron Formation	fg, grey to bluish grey, siliceous unit with a banded/bedded texture. Unit is composed predominately of fg silica/feldspar and pervasive chlorite and with lesser amounts of mica. Strongly magnetic. Moderately foliated. Random mm patches of garnet porphyroblasts scattered throughout (5-7% overall). Finely laminated swirling folds are also scattered throughout this unit. mm scale bands of magnetite are well defined. This unit might also be an altered mafic flow however finely laminated folding and garnet porphyroblasts suggest this unit might be an iron formation. Unit contains disseminated trace specks of py, cpy, and po. High mag susc. Lower contact is diffuse and mostly defined by a loss in magnetite banding.
007-21-03	219.2	222	2.8	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Creamy white bands of plagioclase, quartz/carbonate, sericite, epidote are scattered throughout. Beige to nearly black mm to cm scale bands of biotite are also scattered throughout. Gradational lower contact.

007-21-03	222	223.85	1.85	1Z	Gabbroic with gradational contacts	Fine to coarse grained, grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with disseminated biotite. weak to moderate foliation. Calc-silicate mineralization/alteration is pervasive and patchy and often displays a weakly banded or dendritic pattern.
007-21-03	223.85	227.3	3.45	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with interstitial biotite. Minor mm to cm scale wispy bands and patches of plagioclase , quartz/carbonate, sericite, epidote are also present. Weak to moderate foliation. Minor coarser grained sections of gabbro intrusions are intermittent throughout. Also minor bands/sections of altered iron formation <10cm in length occur intermittently throughout. Trace specks of cpy/py occur in relation to the bands of iron formation. Lower contact defined as gradational with a loss in chlorite alteration and a significant increase in magnetism.
007-21-03	227.3	229.22	1.92	1U	Ultramafic Flows	Medium to coarse grained, dark grey to bluish black ultramafic unit. May contain up to 25% massive and banded magnetite? Significant loss in pervasive chlorite alteration at 228m and an increase in magnetite at this depth. Very fine grained fibrous needles/blades of white/green serpentine occur throughout. Minor 1-2mm thick bands of quartz/plagioclase/carbonate bands cross-cut this unit with often vuggy textures.
007-21-03	229.22	232.5	3.28	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Creamy white bands of plagioclase, quartz/carbonate, sericite, epidote are scattered throughout. Beige to nearly black mm to cm scale bands of biotite are also scattered throughout. Knife sharp lower contact with silicified iron
007-21-03	232.5	239.55	7.05	3D	Iron Formation	Fine grained, creamy white to grey with weakly scattered 1-2mm thick bands of smoky quartz and/or magnetite/mafic bands throughout. Sericite alteration is common throughout. Sharp upper and lower contacts.
007-21-03	239.55	245.15	5.6	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Creamy white bands of plagioclase, quartz/carbonate, sericite, epidote are scattered throughout. Beige to nearly black mm to cm scale bands of biotite are also scattered throughout. Swarms of quartz veins appear barren of sulphide mineralization. Gradational lower contact with altered iron formation.

007-21-03	245.15	246.83	1.68	3D	Iron Formation	fg, grey to bluish grey to green, siliceous unit with a banded/bedded texture. Unit is composed predominately of fg silica/feldspar and pervasive chlorite and with lesser amounts of mica. Weakly to moderately magnetic. Moderately foliated. Random mm patches and bands of garnet porphyroblasts scattered throughout (10-15% overall). mm scale bands of magnetite are well defined. This unit might also be an altered mafic flow however finely laminated folding and garnet porphyroblasts suggest this unit might be an iron formation. Lower contact is diffuse and mostly defined by a loss in magnetite banding and garnet alteration. Trace specks of py/po.
007-21-03	246.83	252	5.17	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Creamy white wispy bands of plagioclase, quartz/carbonate, sericite, epidote are scattered throughout. Beige to nearly black mm to cm scale bands of biotite are also scattered throughout. Swarms of quartz veinlets appear barren of sulphide mineralization. Minor bands or fingers of felsic dykes/feldspar porphyry dykes <5cm thick occur from 247.54-247.84m. Gradational lower contact with altered iron formation.

		Hole Number:		007-21-04			
		Drill Rig:		G4-13			
		Claim Number:		531265			
Location		Drill Hole Orientation		Dates Drilled:		Start Date:	End Date:
Surface				09/22/2021		09/28/2021	
Planned Coordinates		Azimuth:	120	Drill Contractor:		G4 Drilling Canada Ltd.	
Easting	642951						
Northing	5415171	Dip:	-55	Dates Logged:		Start Date:	End Date:
Elevation(m)	405			09/26/2021		09/29/2021	
Final Pick up		Depth(m):	252.00	Logger 1:		Derek Smyth	
Easting	642861.4			Logger 2:			
Northing	5414997	Logger 3:					
Elevation(m)	397.90	Core Size:	NQ	Assay Lab:		Actlabs	
Casing							
Purpose of Hole	Testing the down strike continuity of the 007 showing (100 meters down strike). Intersects the projected vein at approximately 100 meters down dip	Dip Tests					
		Depth (m)	Az.	Dip	Mag	Notes	Az Uncor.
		15	120	-55.1	56084		127.6
		45	120	-55.1	55658		127.6
		75	121.4	-54.4	55562		129
		105	120.5	-53.7	55502		128.1
		135	120.3	-52.7	55457		127.9
		165	124.5	-49.9	55781		132.1
		195	120.8	-49.2	55686		128.4
		225	121.6	-48.6	55357		129.2
Results		252	121.8	-48.1	55711		129.4
			-7.6				
			-7.6				
			-7.6				
			-7.6				
			-7.6				
			-7.6				
Comments			-7.6				
			-7.6				
			-7.6				
Azimuth corrected to 7.6 degrees west declination			-7.6				

BHID	FROM_M	TO_M	LENGTH_M	ROCK_CODE	ROCK	COMMENTS
007-21-04	0	3	3	CAS	Casing	
007-21-04	3	10	7	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Creamy white bands of plagioclase, quartz/carbonate, sericite, epidote are scattered throughout. Vuggy texture is present in some of the white bands. Beige to nearly black mm to cm scale bands of biotite are also scattered throughout. Minor unit of iron formation occurs in this mafic flow.
007-21-04	10	13.46	3.46	1Z	Gabbroic with gradational contacts	Coarse grained, grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with disseminated biotite. weak to moderate foliation. 1-3mm subhedral phenocrysts of amphibole wax and wane throughout. Calc-silicate alteration is pervasive and patchy and often displays a weakly banded or dendritic pattern.
007-21-04	13.46	18.2	4.74	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. However coarser sections may indicate this is a finer grained version of the surrounding gabbro unit? Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with interstitial biotite. Moderate foliation.
007-21-04	18.2	41.27	23.07	1Z	Gabbroic with gradational contacts	Coarse grained, grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with disseminated biotite. weak to moderate foliation. 1-3mm subhedral phenocrysts of amphibole wax and wane throughout. Calc-silicate alteration is pervasive and patchy and often displays a weakly banded or dendritic pattern. Trace sulphides of py, po occur in quartz veinlets near lower contact as well as disseminated specks closer to lower contact.
007-21-04	41.27	45.06	3.79	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. However coarser sections may indicate this is a finer grained version of the surrounding gabbro unit? Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with interstitial biotite. Moderate foliation. Trace disseminated pyrite and pyrrhotite.


007-21-04	45.06	55.75	10.69	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Creamy white bands/laminations of plagioclase, quartz/carbonate, sericite, epidote are scattered throughout. Dark green to black mm to 1cm thick bands indicate pillow salvages. Vuggy texture is present in some of the white bands. Beige to nearly black mm to cm scale bands of biotite are also scattered throughout. Minor units of silicate-facies iron formation scattered throughout. Intermittent trace specks of py, po scattered throughout. Moderate foliation.
007-21-04	55.75	65	9.25	1Z	Gabbroic with gradational contacts	Coarse grained, grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with disseminated biotite. weak to moderate foliation. 1-3mm subhedral phenocrysts of amphibole wax and wane throughout. Calc-silicate alteration is pervasive and patchy and often displays a weakly banded or dendritic pattern. Intermittent minor units of feldspar porphyry dykes scattered throughout. Trace sulphides of py, po occur in quartz veinlets near lower contact as well as disseminated specks closer to lower
007-21-04	65	69.35	4.35	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. However coarser sections may indicate this is a finer grained version of the surrounding gabbro unit? Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with interstitial biotite. Moderate foliation. Trace disseminated pyrite and pyrrhotite overall.
007-21-04	69.35	73.36	4.01	3D	Iron Formation	fg, grey to bluish grey, siliceous unit with a banded/bedded texture. Unit is composed predominately of fg silica/feldspar with lesser amounts of mica. Weakly magnetic. Moderately foliated. Rare poorly developed random mm scale bands of garnet porphyroblasts scattered throughout (1-3% overall). Chlorite/epidote alteration is weak. Moderate sericite alteration. 1-2mm subhedral porphyroblasts of plagioclase are scattered. Trace disseminated py, po. Sharp upper and lower contacts.
007-21-04	73.36	112.3	38.94	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Creamy white bands/laminations of plagioclase, quartz/carbonate, sericite, epidote are scattered throughout. Dark green to black mm to 1cm thick bands indicate pillow salvages. Vuggy texture is present in some of the white bands. Beige to nearly black mm to cm scale bands of biotite are also scattered throughout. Minor units of feldspar porphyry dykes scattered throughout. Intermittent trace specks of py, po scattered throughout.

007-21-04	112.3	142.61	30.31	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with interstitial biotite. Weak to moderate foliation. Intermittent minor units and bands of feldspar porphyry and silicified iron formations. Quartz veins/veinlets scattered throughout. Possibly minor intermittent sections of pillowed flows. Trace disseminated specks py throughout.
007-21-04	142.61	155.3	12.69	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Creamy white bands/laminations of plagioclase, quartz/carbonate, sericite, epidote are scattered throughout. Dark green to black mm to 1cm thick bands indicate pillow salvages. Vuggy texture is present in some of the white bands. Beige to nearly black mm to cm scale bands of biotite are also scattered throughout. Random 1-5mm size garnet porphyroblasts of scattered throughout this unit. Intermittent trace specks of very fine grained py, po scattered throughout. Lower contact is gradational with Altered Iron Formation.
007-21-04	155.3	165.25	9.95	3D	Iron Formation	fg, grey to bluish grey, altered iron formation unit with a banded/bedded texture with gradational siliceous upper and lower contacts with mafics. Unit is composed predominately of fg silica/feldspar with lesser amounts of mica. Weakly to moderately magnetic. Moderately foliated. Unit also contains 30-40% anhedral to subhedral porphyroblasts of garnet 0.1-1cm in size. Garnets appear to have a snowflake like habit overall. Chlorite alteration is moderate to strong in sections. Moderate sericite alteration. 1-2% disseminated and blebby py, trace-1% po.
007-21-04	165.25	172.1	6.85	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Creamy white bands/laminations of plagioclase, quartz/carbonate, sericite, epidote are scattered throughout. Dark green to black mm to 1cm thick bands indicate pillow salvages. Beige to nearly black mm to cm scale bands of biotite are also scattered throughout. Intermittent trace specks of very fine grained py, po scattered throughout. Minor gabbro unit from 165.43-166.53m. Lower contact is sharp with Gabbro below.

007-21-04	172.1	174.4	2.3	1Z	Gabbroic with gradational contacts	Coarse grained, grey to dark green gabbro with sharp upper and lower contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with disseminated biotite. weak to moderate foliation. 1-3mm subhedral phenocrysts of amphibole scattered throughout. Quartz/carbonate alteration is pervasive and patchy and often displays a weakly banded or dendritic pattern.
007-21-04	174.4	192.22	17.82	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Creamy white bands/laminations of plagioclase, quartz/carbonate, sericite, epidote are scattered throughout. Dark green to black mm to 1cm thick bands indicate pillow salvages. Beige to nearly black mm to cm scale bands of biotite are also scattered throughout. Intermittent trace specks of very fine grained py scattered throughout. Lower contact is sharp with Feldspar Porphyry below.
007-21-04	192.22	193.48	1.26	4B	Feldspar Porphyry	fg, grey to dark grey silicified porphyritic felsic unit. 1-2mm size plagioclase phenocrysts are subhedral and scattered throughout. Sharp upper and lower contacts.
007-21-04	193.48	230	36.52	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Creamy white bands/laminations of plagioclase, quartz/carbonate, sericite, epidote are scattered throughout. Dark green to black mm to 1cm thick bands indicate pillow salvages. Beige to nearly black mm to cm scale bands of biotite are also scattered throughout. Intense 1-2mm sized banding/laminations of white quartz/carbonate, and plagioclase from 220-222m. Lower contact is gradational with massive flow below.
007-21-04	230	232.3	2.3	1A	Massive Flows	Fine to medium grained, grey to dark green massive mafic flow. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with interstitial biotite.

007-21-04	232.3	252	19.7	1B	Pillowed Flows	Fine grained, dark green to dark grey mafic unit with moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Creamy white bands/laminations of plagioclase, quartz/carbonate, sericite, epidote are scattered throughout. Dark green to black mm to 1cm thick bands indicate pillow salvages. Beige to nearly black mm to cm scale bands of biotite are also scattered throughout. Some sections of increased alteration and laminations contain poorly developed 1-2mm sized garnet porphyroblasts.
-----------	-------	-----	------	----	----------------	--

001-21-01	002-20-02	003-19-03	004-18-04	005-17-05	006-16-06	007-15-07	008-14-08	009-13-09	010-12-10	011-11-11	012-10-12	013-09-13	014-08-14	015-07-15	016-06-16	017-05-17	018-04-18	019-03-19	020-02-20	021-01-21	022-01-22	023-01-23	024-01-24	025-01-25	026-01-26	027-01-27	028-01-28	029-01-29	030-01-30	031-01-31	032-01-32	033-01-33	034-01-34	035-01-35	036-01-36	037-01-37	038-01-38	039-01-39	040-01-40	041-01-41	042-01-42	043-01-43	044-01-44	045-01-45	046-01-46	047-01-47	048-01-48	049-01-49	050-01-50	051-01-51	052-01-52	053-01-53	054-01-54	055-01-55	056-01-56	057-01-57	058-01-58	059-01-59	060-01-60	061-01-61	062-01-62	063-01-63	064-01-64	065-01-65	066-01-66	067-01-67	068-01-68	069-01-69	070-01-70	071-01-71	072-01-72	073-01-73	074-01-74	075-01-75	076-01-76	077-01-77	078-01-78	079-01-79	080-01-80	081-01-81	082-01-82	083-01-83	084-01-84	085-01-85	086-01-86	087-01-87	088-01-88	089-01-89	090-01-90	091-01-91	092-01-92	093-01-93	094-01-94	095-01-95	096-01-96	097-01-97	098-01-98	099-01-99	100-01-100
-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	------------

		Hole Number:		007-21-05			
		Drill Rig:		G4-13			
		Claim Number:		531265, 531266			
Location		Drill Hole Orientation		Dates Drilled:		Start Date:	End Date:
Surface				09/28/2021		10/05/2021	
Planned Coordinates		Azimuth:	120	Drill Contractor:		G4 Drilling Canada Ltd.	
Easting	642795						
Northing	5415260	Dip:	-55	Dates Logged:		Start Date:	End Date:
Elevation(m)	405			09/29/2021		10/05/2021	
Final Pick up		Depth(m):	471.00	Logger 1:		Luc Roy	
Easting	642798.6			Logger 2:		Antony Mohan	
Northing	5415272	Core Size:	NQ	Logger 3:			
Elevation(m)	397.80			Assay Lab:		Actlabs	
Casing							
Purpose of Hole	Testing the down-strike potential of the 007 surface showing (target depth 350 m), and the down-dip extension of the 860 ppb Au grab sample (834646, target depth 150 m).	Dip Tests					
		Depth (m)	Az.	Dip	Mag	Notes	Az Uncor.
Results		12	120.8	-54.8		no reading	128.4
		42	121.3	-53.9	55558		128.9
		72	121.6	-53.3	55963		129.2
		102	121.7	-52.7	55521		129.3
		132	121.8	-51.8	55377		129.4
		162	121.4	-51.6	55399		129
		192	121.6	-51	55576		129.2
		222	123.4	-49.4	55554		131
		252	122.9	-48.9	55556		130.5
		Comments		342	124	-46.8	57087
372	124.5			-45.7	55564		132.1
402	123.1			-45	55667		130.7
432	124			-44	56671		131.6
471	124.3			-43.3	55556		131.9
				-7.6			
Azimuth corrected to 7.6 degrees west declination				-7.6			
				-7.6			
				-7.6			
				-7.6			

BHID	FROM_M	TO_M	LENGTH_M	ROCK_CODE	ROCK	COMMENTS
007-21-05	0	3.6	3.6	CAS	Casing	
007-21-05	3.6	11.95	8.35	2B	Felsic Tuff	Light grey-green, very fine-grained to fine-grained, banded (0.5-2 cm-wide), welded felsic tuff that appear to be primarily composed of qz, fs, and white mica. This unit has up to 1% fracture-controlled pyrite-pyrrhotite. This unit has centimetric (3-10 cm) mafic interbedding's with up to 2% blebby pyrite-pyrrhotite. This unit has areas where there is 1 cm displacement across the bands. 11.13-11.14 m has a 0.5 cm-wide quartz vein with 5-10% pyrite-pyrrhotite within it/at its contact with the wall-rock.
007-21-05	11.95	15.1	3.15	1A	Massive Flows	Fine-grained, grey to dark green massive mafic flow. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Patchy amphibole alteration, with disseminated biotite alteration. Moderate foliation. Trace blebby py, with zones of up to 1% blebby py. There are 0.5-1 cm-wide qz-fs veins with 1-2% disseminated py.
007-21-05	15.1	16.28	1.18	1Z	Gabbroic with gradational contacts	Fine- to coarse-grained, grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive amphibole alteration, with disseminated biotite. Moderate foliation. Up to 10% 1-5 mm, subhedral, foliation parallel, phenocrysts/porphyroblasts of amphibole/chloritoid? The S2 (dominant) foliation is locally crenulated/folded. There are no visible sulfides in this unit.
007-21-05	16.28	19	2.72	1A	Massive Flows	Dark grey-green, fine-grained, massive mafic flow. Unit is composed predominately of amphibole with lesser amounts of grey plagioclase interstitially. Patchy amphibole alteration, with disseminated biotite alteration. This unit is moderately foliated. Trace blebby py, with zones of up to 1% blebby py. There are 0.5-1 cm-wide qz-fs veins with 1-2% disseminated py. There is a quartz vein from 18.18-18.19 m with up to 0.5% pyrite and 1-2% wall-rock fragments. From 16.50-18 m there is 1% fracture-controlled and patchy pyrite.
007-21-05	19	22.1	3.1	1B	Pillowed Flows	Green-grey, fine-grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow salvages are green, and composed of plagioclase, epidote/diopside +/- amphibole. The pillow salvages are locally folded in this unit. This unit has bt-amph fracture-controlled alteration and has up to 0.5% blebby py-po mineralization. From 21.40-21.80 m, there are three 0.5-1 cm-wide quartz stringers with 3-5% py-po+/-sph within. There is a quartz vein from 22.05-22.08 and a severe increase in deformation at this units contact with the underlying felsic tuff.
007-21-05	22.1	23.62	1.52	2B	Felsic Tuff	Light orangey-grey, very fine-grained to fine-grained felsic tuff that appears to be primarily composed of qz, fs, and white mica. This unit has trace fracture-controlled pyrite-pyrrhotite. This unit is silicified and has potential trace sphalerite?

007-21-05	23.62	28.74	5.12	1B	Pillowed Flows	Green-grey, fine-grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow salvages are green, and composed of plagioclase, epidote/diopside +/- amphibole. The pillow salvages are locally crenulated/folded in this unit. This unit has bt-amph fracture-controlled alteration and has 0.5-1% blebby/fracture-controlled py-po mineralization. There is a quartz vein from 23.81-23.86 m and a severe increase in deformation at this units contact with the overlying felsic tuff.
007-21-05	28.74	33.47	4.73	1A	Massive Flows	Dark grey-green, fine-grained, massive mafic flow. Unit is composed predominately of amphibole with lesser amounts of grey plagioclase interstitially. Patchy amphibole alteration, with disseminated biotite alteration. This unit is moderately foliated. Trace blebby py, with zones of up to 1% blebby py. There are 0.5-1 cm-wide qz-fs veins with 1-2% disseminated py.
007-21-05	33.47	46.8	13.33	1B	Pillowed Flows	Green-grey, fine-grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow salvages are green, and composed of plagioclase, epidote/diopside +/- amphibole. This unit has bt-amph fracture-controlled alteration and has 0.5-1% blebby/fracture-controlled py-po mineralization. There is a quartz vein from 33.68-33.70 with 1% Py with millimetric lamination of wall rock. Another smoky quartz vein from 39.99 to 40.06 m with millimetric laminations of wall rock with trace Py. From 44.8 to 46.8 there is 1 to 2% disseminated Py. Another smoky quartz vein from 46.68 to 46.70 m with millimetric laminations of wall rock with trace Py.
007-21-05	46.8	50.13	3.33	1A	Massive Flows	Dark grey-green, fine-grained massive mafic flow. Unit is primarily comprised of amphibole and plagioclase. This unit is cut by many 5 to 20cm intrusions (granodiorite and feldspar porphyry). It has a weak to moderate foliation. It has trace amounts of disseminated Py, locally increasing to 2% in fractured zones.
007-21-05	50.13	54.42	4.29	FZ	Fault Zone	Dark grey-green, fine-grained massive mafic flow. Unit is primarily comprised of amphibole and plagioclase. This unit is severely fractured with visible fault gouging. There is a quartz vein from 50.55 to 50.65m with fine wall rock laminations. From 52 to 52.12 there is another quartz vein with 2-3% disseminated Py-Po and fine wall rock laminations. The rock within the fault zone contains 0.5% fracture controlled Py.
007-21-05	54.42	55.8	1.38	4B	Feldspar Porphyry	Dark grey-beige, fine-medium grained, foliated (moderate) feldspar porphyry. Matrix in this unit predominantly comprised of dark green amphibole and the phenocrysts are plagioclase. This unit has some trace amount of fracture controlled Py.

007-21-05	55.8	61.67	5.87	1B	Pillowed Flows	Dark green-grey, fine-grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow salvages are green, and composed of plagioclase, epidote/diopside +/- amphibole. This unit is cut by a 15 cm wide granitoid dyke/intrusion parallel to foliation. There is a quartz vein from 56.91 to 57m. There is some trace fracture controlled Py within the unit.
007-21-05	61.67	65.9	4.23	1A	Massive Flows	Dark grey-green, fine-grained massive mafic flow. Unit is primarily comprised of amphibole and plagioclase. From 64.60 to 65m there is a fault zone that is severely fractured with visible fault gouging. There is trace fracture controlled Py with some areas having up to 1-3%.
007-21-05	65.9	68.66	2.76	1B	Pillowed Flows	Dark green-grey, fine-grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow salvages are green, and composed of plagioclase, epidote/diopside +/- amphibole. There is some trace amounts of fracture controlled Py within the unit. The lower contact with the 4B has a quartz vein from 68.61 to 68.66m with fine wall rock laminations within.
007-21-05	68.66	70.06	1.4	4B	Feldspar Porphyry	Dark grey-beige, fine-medium grained, foliated (moderate) feldspar porphyry. This unit also has randomly alternating bands of mafic volcanics and felsic tuffs.
007-21-05	70.06	74.47	4.41	1B	Pillowed Flows	Dark green-grey, fine-grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow salvages are green, and composed of plagioclase, epidote/diopside +/- amphibole. This unit has some trace amounts of fracture filled Py.
007-21-05	74.47	82	7.53	1A	Massive Flows	Dark grey-green, fine-grained massive mafic flow. Unit is primarily comprised of amphibole and plagioclase. There is some trace fracture controlled Py within this unit. There is a 30 cm wide 1B from 79.85 to 80.15 m, and a 30cm wide gabbro unit from 75.70 to 76m.
007-21-05	82	90	8	1Z	Gabbroic with gradational contacts	Fine- to coarse-grained, grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive amphibole alteration, with disseminated biotite. Weak to Moderately foliated. There is some trace amount of Py blebs within this unit .
007-21-05	90	104.95	14.95	1B	Pillowed Flows	Dark green-grey, fine-grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow salvages are green, and composed of plagioclase, epidote/diopside +/- amphibole. There is a fol-parallel quartz vein from 104.80-104.90 m with trace fracture-controlled pyrite.

007-21-05	104.95	110.7	5.75	1Z	Gabbroic with gradational contacts	Fine- to coarse-grained, grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive amphibole alteration, with disseminated biotite. Weak to Moderately foliated. There is 1 cm wide vein from 105.29 to 105.30m with 2-3% Py.
007-21-05	110.7	111.8	1.1	FZ	Fault Zone	Dark grey-green, fine-grained massive mafic flow. Unit is primarily comprised of amphibole and plagioclase. This unit is severely fractured with visible fault gouging. This unit has 0.5 to 1% fracture controlled Py.
007-21-05	111.8	117.39	5.59	1B	Pillowed Flows	Dark green-grey, fine-grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow salvages are green, and composed of plagioclase, epidote/diopside +/- amphibole. From 113 to 116m there are numerous 0.5 to 1cm silica rich veins with 1-2% Py/Po. From 116.60 to 116.80 there is a minor felsic tuff unit.
007-21-05	117.39	118.24	0.85	2B	Felsic Tuff	Light grey-green, very fine-grained to fine-grained, banded (0.5-2 cm-wide), welded felsic tuff that appear to be primarily composed of qz, fs, and white mica. This unit has trace amounts of fracture-controlled pyrite-pyrrhotite.
007-21-05	118.24	145.71	27.47	1B	Pillowed Flows	Dark green-grey, fine-grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow salvages are green, and composed of plagioclase, epidote/diopside +/- amphibole. This unit has numerous 1-2 m-wide massive mafic layers within. This unit also has numerous, <30 cm-wide foliation parallel felsite units. From 137.26-137.35 m, there is a quartz vein without visible sulfides. There is trace fracture-controlled pyrite through this unit. From 137 to 137.26 there is a quartz-feldspar-diopside vein (3-4cm) parallel to the core axis. There is a felsic tuff unit without significant sulfides from 138.15 to 138.76m . There is some sporadic biotite alteration within the unit.
007-21-05	145.71	147.79	2.08	4B	Feldspar Porphyry	Dark grey-beige, fine-medium grained, foliated (moderate) feldspar porphyry. Matrix in this unit predominantly comprised of dark green amphibole and the phenocrysts are plagioclase. There is some fracture controlled Py along the contact zone with the with pillowed flows.
007-21-05	147.79	159.38	11.59	1A	Massive Flows	Dark grey-green, fine-grained massive mafic flow. Unit is primarily comprised of amphibole and plagioclase. There is trace fracture-controlled pyrite. There is strong patchy biotite alteration. There are <30 cm-wide, minor units of 5B and 4B. There are layers of intermittent units of welded felsic tuffs (30cm thick) within this unit. There are some trace fracture controlled Py within this unit.

007-21-05	159.38	165.71	6.33	1Z	Gabbroic with gradational contacts	Fine- to coarse-grained, grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive amphibole alteration, with disseminated biotite. Moderate foliation. Up to 10% 1-5 mm, subhedral, foliation parallel, phenocrysts/porphyroblasts of amphibole/chloritoid? There are foliation parallel 0.5cm wide (1-10 aspect ratio) white wisps likely plagioclase? Trace disseminated Py that can reach up to 1% within this unit.
007-21-05	165.71	171	5.29	1A	Massive Flows	Dark grey-green, fine-grained massive mafic flow. Unit is primarily comprised of amphibole and plagioclase. Trace foliation parallel mineralization of Py present within this unit. There is a quartz vein from 167.21 to 167.24m without any significant sulfide mineralization. There is another quartz vein from 167.62 to 167.65m. There is up to 2% blebby Py proximal to the upper contact with 1Z.
007-21-05	171	174.37	3.37	4B	Feldspar Porphyry	Dark grey-beige, fine-medium grained, foliated (moderate) feldspar porphyry. Matrix in this unit predominantly comprised of dark green amphibole and the phenocrysts are plagioclase. This unit is banded and is comprised of many, 5-30 cm-wide banded layers of porphyry, mafic volcanics, and felsic tuff. There is some fracture controlled Py along the contact zone with the with mafic flows at the basal contact. There is a 10 cm iron formation at the basal contact with the mafic flows.
007-21-05	174.37	187.51	13.14	1A	Massive Flows	Dark grey-green, fine-grained massive mafic flow. Unit is primarily comprised of amphibole and plagioclase. There is trace fracture-controlled pyrite. There is strong patchy biotite alteration. From 187.41 to 187.51m, there is a smoky quartz vein without significant sulfides. From 178 to 179m there are 3, 5-10cm wide garnetiferous BIF with 1% Py/Po with biotite/amphibole alteration. From 184.7 to 185m there is a strongly fractured zone where the core is broken to rubble. From 174.61 to 174.64, there is a millimeter scale quartz stringer with an associated alteration halo characterized by bleaching (plagioclase?) with 2-3% fracture controlled Py/Po. From 185.15 to 185.24m there is a quartz vein with mm to cm scale wall rock lamination and trace Py mineralization.
007-21-05	187.51	189	1.49	FZ	Fault Zone	Light to dark green mafic volcanics that have been extensively brecciated. The upper 40cm of the unit is extensively fractured/broken while the rest of the unit is brecciated. The brecciated portion shows crackled to mosaic texture. Fragments are mm to cm scale and is dark green and sub-rounded, while the fracture infillings are lighter green in color and pervasive throughout the brecciated portion. From 187.97 to 188m ,there is a quartz rich veinlet with mm to cm scale Py fragments.

007-21-05	189	193.39	4.39	1B	Pillowed Flows	Dark green-grey, fine-grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow salvages are green, and composed of plagioclase, epidote/diopside +/- amphibole. This unit has numerous 1-2 cm-wide massive mafic layers within. There are some trace fracture controlled Py within this unit. From 191 to 192m there is increased fracturing with fault gouging proximal to 191m.
007-21-05	193.39	194.3	0.91	2B	Felsic Tuff	Light grey, very fine-grained to fine-grained felsic tuff that appears to be primarily composed of qz, fs, and white mica. This unit has trace fracture-controlled pyrite-pyrrhotite. There is a laminated quartz vein from 193.83 to 193.91m, where there is strongly silicified zones with fine grained Py/Po. The vein has 1% Py/Po.
007-21-05	194.3	197.5	3.2	1Z	Gabbroic with gradational contacts	Fine- to medium-grained, grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Near the top of this unit, there are 2, 0.5cm wide stringers bearing (2-3%) Py/Po. (194.47-194.48)
007-21-05	197.5	201.27	3.77	1B	Pillowed Flows	Dark green-grey, fine-grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow salvages are green, and composed of plagioclase, epidote/diopside +/- amphibole. From 201.07 to 201.27m there is a quartz vein with less than 1% wall rock laminations without significant sulfides.
007-21-05	201.27	202.35	1.08	5A	Granite	Pinkish red, medium grained granitic unit (dike) with k-feldspar, quartz, +- biotite with accessory molybdenite. The basal contact is brecciated with fragments of pillowed basalts within the brecciated zone. From 202 to 202.15 there is light grey granitic unit that is portraying fine grained graphic texture.
007-21-05	202.35	207.45	5.1	1B	Pillowed Flows	Dark green-grey, fine-grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow salvages are green, and composed of plagioclase, epidote/diopside +/- amphibole. From 205.20 to 205.27cm there is a set of 0.5 to 1cm wide quartz veins with altered wall rock between them. From 205.5m to up to the basal contact, the unit is severely altered (bleached).
007-21-05	207.45	213.76	6.31	FZ	Fault Zone	Light to dark green mafic volcanics that have been brecciated. The upper 3m of the unit is fractured/broken while the rest of the unit is intensively brecciated with visible fault gouging. The brecciated portion shows crackled to mosaic texture. Fragments are mm to cm scale and is dark green and sub-rounded, while the fracture infillings are lighter green in color and pervasive throughout the brecciated portion. There is some sporadic fine-grained Py/Po disseminated throughout the basal portion of the fault zone close to the fault gouge zone (212.8 to 213m)

007-21-05	213.76	215.21	1.45	5A	Granite	Pinkish red, medium grained granitic unit (dike) with k-feldspar, quartz, +- biotite with accessory molybdenite. There are some fracture controlled infillings/alteration with a minor Py mineralization at 214.85m and 215.03m associated with a minor quartz veining (?). This unit has light-grey colored fracture infillings towards the basal portion at 205m.
007-21-05	215.21	218.75	3.54	1B	Pillowed Flows	Dark green-grey, fine-grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow salvages are green, and composed of plagioclase, epidote/diopside +/- amphibole. There are two quartz veins from 216.39 to 216.45m and 217.35 to 217.50m respectively that have wall rock laminations. There are two, mm scale Py/Po stringers at 215.95m. There is a quartz-feldspar vein with up to 2% sulfides (Py-Po+/-ccp) at 218.54 to 218.55m.
007-21-05	218.75	228.22	9.47	1Z	Gabbroic with gradational contacts	Fine- to coarse-grained, grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. This unit is moderate to strongly altered throughout. The unit is also fractured/broken intermittently while the rest of the unit is brecciated with visible gouging variably within the unit. The brecciated portion shows crackled to mosaic textures. Fragments are mm to cm scale and is dark green, while the fracture infillings are lighter green in color and pervasive throughout the brecciated portion. There is some sporadic fine-grained Py/Po disseminated throughout the unit. A minor fractured/alterated medium-granitic (dike?) unit is present from 227.65 to 227.93m. From 224 to 225m, there is intense fracturing and alteration/bleaching in comparison to the rest of the unit.
007-21-05	228.22	238.74	10.52	FZ	Fault Zone	Light grey-green to dark green massive mafic volcanics and pillowed basalts with minor interlayers of gradational gabbroic units. The fault zone is heavily broken up and brecciated throughout with bleaching induced through fracture fluid alterations. There are several medium grained granitic (dike?) intrusions within the fault zone and also along the upper and basal contacts. There is intense fracturing from 228.22 to 233.5m which are also intensively bleached and brecciated. There are patchy Py/Po mineralization (1-5%) within the unit up to 231m (sections 228.22-229m, 230-231.05m). Fragments of broken quartz vein fragments which are healed through fracture infillings can be identified from 234.95 to 234.10m. From 236 to 239m, the core appears to be less brecciated, but most of the section is broken up with less bleaching compared to the section above.


007-21-05	238.74	244.56	5.82	1A	Massive Flows	Dark grey-green, fine-grained massive mafic flows. Remnant foliation can be identified within the unit with patchy Py/Po mineralization along foliation. There are fault induced fracture infillings which are light grey/beige in color and are either quartz/plagioclase (?). From 239.5 to 244.56m, the unit is broken/fractured. Section from 240 to 244.56m is bleached/alterd with healed fractures. There is a minor granitic intrusion(?) from 241.2 to 241.5m that is fractured and healed but without significant sulfides present in them. There appears to be a granodioritic (?) intrusion (?) from 239.55 to 239.85m which appears to be fractured and healed having contact with the upper and basal contacts parallel to the remnant foliation.
007-21-05	244.56	246	1.44	5A	Granite	The medium grained granitic (dike?) is affected by the nearby fault zone and appears to have a sub-vertical contact with the basal fault zone. Some of the fractures are quartz or either plagioclase (?) infilled.
007-21-05	246	257	11	FZ	Fault Zone	Light grey-green to dark green massive mafic volcanics and pillowed basalts with minor interlayers of gradational gabbroic units. The fault zone is heavily broken up and brecciated throughout and with bleaching induced through fracture fluid alterations. There is an intensely broken up medium grained granitic (dike?) intrusion at the upper contact of the fault zone from 246.79 to 248.5m and also along the basal contacts. There is intense fracturing from 246.79 to 252.60m which are also moderately bleached and brecciated with several quartz and feldspar veins (?). There are two quartz veins from 251.90 to 252m (associated with a feldspar vein wall rock laminations) and 255 to 255.25m (fractured with fragments of wall rock laminations?). Both these veins are devoid of sulfide mineralization.
007-21-05	257	267.78	10.78	1Z	Gabbroic with gradational contacts	Fine- to coarse-grained, grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. This unit is moderate to strongly altered variably throughout the section, especially proximal to the upper contact with the fault zone. There are numerous quartz/plag veins+/- calcite that are either sub-vertical (259.12-259.45m) or parallel (259.90m) to remnant foliation. There is also a felsic tuff band from 260.23 to 260.34m. The degree of alteration (fracture induced?) seems to increase from 260.45 to 264m. From 263.50 to 263.71, there is 3-5% Py/Po mineralization (subhedral-euhedral grains) as patches/blebs seeming to following the orientation of the remnant foliation and at times adjacent to quartz grains. There is quartz vein from 263.10 to 263.50 (sub-vertical-cross-cutting the remnant foliation) that has some minor calcite infillings. A 20cm pink qz/feldspar vein present ending at 262.60m.

007-21-05	267.78	269.6	1.82	4B	Feldspar Porphyry	Dark grey to beige, fine-medium grained, foliated (moderate) and occasionally banded feldspar porphyry. Matrix in the unit predominantly comprises of dark green amphiboles and the phenocrysts are plagioclase (?). This unit is in part banded with layers of foliated mafic volcanics and felsic tuff unit (towards the upper contact). From 269.30 to 269.60m, there are intermittent patches of blebby Py /Po (2-3%) which seems to follow foliation .
007-21-05	269.6	288.5	18.9	1Z	Gabbroic with gradational contacts	Fine- to medium-grained, grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. The unit is moderately altered (banded diopside alteration?, healed fractures) and fractured from the upper contact to 270m. Diopside alteration is present throughout the unit. From 269.80 -269.85 (0.1-0.5% Py as blebs associated with light pale green Di alteration (?)), 271.3 -271.45 (Py and minor Po occurs as patches 5% and locally up to 10% associated with Di alteration (?), 272.73-272.80 (2%Py/Po? associated with Di), 274.93-274.98 (Qz/Feld vein without sulfides), 276.62-276.90 (disseminated Py 0.1%, 276.75-276.82 (3-5%) Py blebs along foliation, 276.90-277.15m (felsic tuff/feldspar porphyry (?) with 1-3% Py blebs along fractures) , 277.15-277.96m (0.5% Py as blebs along foliation). There are qz veins identified within the unit with associated sulfides occurring along fractures.
007-21-05	288.5	290.85	2.35	4B	Feldspar Porphyry	Dark grey to beige, fine-medium grained, foliated (moderate) and occasionally banded feldspar porphyry. Matrix in the unit predominantly comprises of dark green amphiboles and the phenocrysts are plagioclase (?).
007-21-05	290.85	360.29	69.44	1A	Massive Flows	Dark grey-green, fine-med grained and occasionally medium grained (290.06 to 290.48m) massive mafic flows interlayered with various unit of 4B (10cm sections, minor 1B and banded iron formations+/-garnet. This unit is primarily comprised of amphibole and plagioclase. Patchy amphibole alteration, with disseminated biotite alteration is present throughout this unit. Banded diopside alteration is found pervasive throughout occasionally associated with garnetiferous BIF (bands varying from 2 to 30cm). Through varying sections of the unit Py/Po mineralization is observed associated with BIF adjacent to possible Diopside alteration. Sulfide mineralization is mostly insignificant throughout the unit barring certain mm to cm scale sections where it occurs as blebs/patches or as mm scale stringers (Py, Py/Po?). A few quartz veins ranging from 1 to 10cm in thickness is found within the unit mostly parallel to remnant foliation. The feldspar porphyry's also seem to trend parallel to foliation.

007-21-05	360.29	367.26	6.97	3D	Iron Formation	Fine grained, dark grey, altered iron formation unit with a banded texture (remnant foliation) with gradational upper and lower contacts with 1A & 1B. Unit is composed predominately of mafic minerals, epidote (?along fractures). Weakly magnetic. Weak to moderately foliated. Unit also contains 30-40% anhedral to subhedral porphyroblasts of garnet 0.1-1.5cm in size. Garnets appears to have a snowflake like habit overall. 0.1-1% disseminated and blebby Py, trace- up to 0.1% Po along the unit. Locally along fractures up to 10% Py/Po (?) is identified.
007-21-05	367.26	375.44	8.18	1B	Pillowed Flows	Dark green-grey, fine-grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow salvages are green, and composed of plagioclase, epidote/diopside +/- amphibole. Banded Diopside alt and sections of BIF can be identified within this unit. There are 5 Qz minor veins which vary from 2- 6 cm without significant sulfide mineralization. Py/Po ? mineralization (0.1 to 0.5%) occurs as patches along fractures and as minor disseminations.
007-21-05	375.44	388.13	12.69	1A	Massive Flows	Dark grey-green, fine-med grained massive mafic flows interlayered with various unit of 4B, minor 1B and banded iron formations+/-garnet. This unit is primarily comprised of amphibole and plagioclase. Patchy amphibole alteration, with disseminated biotite alteration is present throughout this unit. Banded diopside alteration is found pervasive throughout occasionally associated with minor garnetiferous BIF bands. Through varying sections of the unit Py/Po mineralization is observed associated with BIF adjacent to possible Diopside alteration. Sulfide mineralization is mostly insignificant throughout the unit barring certain mm to cm scale sections where it occurs as blebs/patches or as mm scale stringers (Py, Py/Po?). From sections 379.44 - 379.73m & 380.5 - 380.7m , there are cherty/siliceous bands alternating with wall rock rock laminations sandwiching sulfide stringers (along remnant bedding planes)
007-21-05	388.13	389.15	1.02	3D	Iron Formation	Fine grained, dark grey, altered iron formation unit with a banded texture (remnant foliation) with gradational upper and lower contacts with 1A & 1B. Unit is composed predominately of mafic minerals, epidote (?along fractures). Weakly magnetic. Weak to moderately foliated. Unit also contains 30-40% anhedral to subhedral porphyroblasts of garnet 0.1-1.5cm in size. Garnets appears to have a snowflake like habit overall.
007-21-05	389.15	407.33	18.18	1B	Pillowed Flows	Dark green-grey, fine-grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow salvages are green, and composed of plagioclase, epidote/diopside +/- amphibole. Banded Diopside alt and sections of BIF can be identified within this unit.

007-21-05	407.33	412.3	4.97	1A	Massive Flows	Dark grey-green, fine-med grained massive mafic flows. This unit is primarily comprised of amphibole and plagioclase. Patchy amphibole alteration, with minor disseminated biotite alteration is present throughout this unit. Banded diopside alteration is found throughout occasionally associated with minor BIF bands. /very minor to trace sulfides present as disseminations.
007-21-05	412.3	443.44	31.14	1B	Pillowed Flows	Dark green-grey, fine-grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow salvages are green, and composed of plagioclase, epidote/diopside +/- amphibole. Banded Diopside alt and alternating sections of BIF can be identified within this unit. There are several 1-10cm Qz veins within the section mostly cutting parallel to foliation. Sulfides are present only as trace amounts and occasionally ranging up to 1-3% locally associated with BIF's, bounding Qz veins and along fracture surfaces as disseminations/blebs, wisps and stringers.
007-21-05	443.44	451.27	7.83	3D	Iron Formation	Fine grained, dark grey, altered iron formation unit with a banded texture (remnant foliation) with gradational upper and lower contacts with 1B. Unit is composed predominately of mafic minerals, epidote. Weakly magnetic. Weak to moderately foliated. Unit also contains 30% anhedral to subhedral porphyroblasts of garnet 0.1-1 cm in size. Garnets appears to have a snowflake like habit. There appears to be banded/pervasive Bt and associated Di alteration (bands).
007-21-05	451.27	468.19	16.92	1B	Pillowed Flows	Dark green-grey, fine-grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow salvages are green, and composed of plagioclase, epidote/diopside +/- amphibole. Banded Diopside alt and minor sections of BIF and Bt alt can be identified within this unit. There are several interlayers of feldspar porphyry's and a minor section of felsite from 465.72 to 466.07m. Sulfide mineralization is insignificant and occurs as minor disseminations and wisps along foliation and associated to BT alteration (?)
007-21-05	468.19	471	2.81	1A	Massive Flows	Dark grey-green, med grained massive mafic flows. This unit is primarily comprised of amphibole and plagioclase. Patchy amphibole alteration, with minor patchy biotite alt and banded diopside alteration is identified within the unit. It appears to grade more into 1Z towards the EOH.

001241	001250	001251	001252	001253	001254	001255	001256	001257	001258	001259	001260	001261	001262	001263	001264	001265	001266	001267	001268	001269	001270	001271	001272	001273	001274	001275	001276	001277	001278	001279	001280	001281	001282	001283	001284	001285	001286	001287	001288	001289	001290	001291	001292	001293	001294	001295	001296	001297	001298	001299	001300	001301	001302	001303	001304	001305	001306	001307	001308	001309	001310	001311	001312	001313	001314	001315	001316	001317	001318	001319	001320	001321	001322	001323	001324	001325	001326	001327	001328	001329	001330	001331	001332	001333	001334	001335	001336	001337	001338	001339	001340	001341	001342	001343	001344	001345	001346	001347	001348	001349	001350	001351	001352	001353	001354	001355	001356	001357	001358	001359	001360	001361	001362	001363	001364	001365	001366	001367	001368	001369	001370	001371	001372	001373	001374	001375	001376	001377	001378	001379	001380	001381	001382	001383	001384	001385	001386	001387	001388	001389	001390	001391	001392	001393	001394	001395	001396	001397	001398	001399	001400	001401	001402	001403	001404	001405	001406	001407	001408	001409	001410	001411	001412	001413	001414	001415	001416	001417	001418	001419	001420	001421	001422	001423	001424	001425	001426	001427	001428	001429	001430	001431	001432	001433	001434	001435	001436	001437	001438	001439	001440	001441	001442	001443	001444	001445	001446	001447	001448	001449	001450	001451	001452	001453	001454	001455	001456	001457	001458	001459	001460	001461	001462	001463	001464	001465	001466	001467	001468	001469	001470	001471	001472	001473	001474	001475	001476	001477	001478	001479	001480	001481	001482	001483	001484	001485	001486	001487	001488	001489	001490	001491	001492	001493	001494	001495	001496	001497	001498	001499	001500
--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

		Hole Number:		007-21-06			
		Drill Rig:		G4-13			
		Claim Number:		531265, 531266			
Location		Drill Hole Orientation		Dates Drilled:		Start Date:	End Date:
Surface				10/05/2021		10/12/2021	
Planned Coordinates		Azimuth:	120	Drill Contractor:		G4 Drilling Canada Ltd.	
Easting	642768						
Northing	5415176	Dip:	-55	Dates Logged:		Start Date:	End Date:
Elevation(m)	405					10/05/2021	
Final Pick up		Depth(m):	450.00	Logger 1:		Antony Mohan	
Easting	642755.3			Logger 2:			
Northing	5415178	Core Size:		Logger 3:		Assay Lab:	
Elevation(m)	377.50						
Casing				Dip Tests			
Purpose of Hole	Test the down Dip continuity of the 007 Showing. Targeting the 007 vein 300 meters down dip.	Depth (m)	Az.	Dip	Mag	Notes	Az Uncor.
		12	118.6	-55.3	56732		126.2
Results		42	116.7	-55	56793		124.3
		75	121.6	-54.5	55400		129.2
		102	120.3	-52.5	55822		127.9
		132	120.9	-51.8	55744		128.5
		162	121.3	-51.1	55750		128.9
		192	121.3	-50.6	55489		128.9
		222	121.9	-50.1	55614		129.5
		252	122.8	-49.7	55583		130.4
Comments		282	122.2	-48.9	55955		129.8
		312	123.2	-48	55534		130.8
		342	123.3	-46.4	55430		130.9
		372	121.8	-45.5	54911		129.4
		402	124.4	-44.5	56413		132
		432	122.5	-43.8	55489		130.1
Azimuth corrected to 7.6 degrees west declination		450	123.8	-43.3	55740		131.4
				-7.6			
				-7.6			

BHID	FROM_M	TO_M	LENGTH_M	ROCK_CODE	ROCK	COMMENTS
007-21-06	0	3	3	CAS	Casing	
007-21-06	3	12.12	9.12	1Z	Gabbroic with gradational contacts	Fine-med grained, dark grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive amphibole alteration, with disseminated biotite and banded Di alteration can be identified within this unit. Weak to Moderately foliated. Minor 0.5 to 1 cm Qz veins are also observed within this unit without significant sulfides.
007-21-06	12.12	22	9.88	1B	Pillowed Flows	Dark green-grey, fine-med grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow salvages are green, and composed of plagioclase, epidote/diopside +/- amphibole. There are several 2-30cm sections within the unit which has Py/Po? blebs/disseminations ranging from 0.1-0.5% & locally up to 2-3%. Exposed fracture surfaces also seems to present patchy sulfides. This may be associated to remnant foliation parallel mineralization. Minor 1 to 5 cm Qz veins are also identified within the unit seeming to trend parallel to remnant foliation which present little to trace amounts of sulfides either as patches within wall rock laminations or bounding the veins along banded Di /Bt (?) alterations.
007-21-06	22	26.15	4.15	1A	Massive Flows	Fine-grained, grey to dark green massive mafic flows. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Patchy amphibole alteration, with disseminated biotite alteration. Weak to Moderate foliation. From 22 to 23m, Py occurs as blebs/disseminations (0.1-0.5%) seems to be associated with Bt/Gt (?) patches which appear parallel to remnant foliation.
007-21-06	26.15	36.2	10.05	1B	Pillowed Flows	Dark green-grey, fine-med grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow salvages are green, and composed of plagioclase, epidote/diopside +/- amphibole. From 31 to 36.20m , rocks are affected by pervasive alteration affected by fluid from possible faulting (?) . Visible foliation is feeble and affected by fracture filling induced healing and qz/calcite (?) veining throughout this section. Minor bands of Di alt also observed. The alt zones are pale green-dark grey green in color (minor Epidote along fractures (?)). Alt zones are cross cut by 0.2 to 0.5 cm milky qz, smoky (?) qz/feldspathic veinlets.

007-21-06	36.2	46.42	10.22	1A	Massive Flows	Fine-grained, grey to dark green massive mafic flows. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Patchy amphibole alteration, with disseminated to patchy biotite alteration. Weak to Moderate foliation is exhibited throughout the section. The unit consists of a section of moderate to strongly altered section of pillowed flows (?). Section 40 to 41m exhibits strong brecciation and fracture induced healing with minor qz/qz-feld veining with minor sulfide mineralization. The healed fractures seem to trend parallel to remnant foliation. Section 41.08 to 41.44 shows an alternating minor banded Di alt and BIF (?0-high mag). Py/Po(?) stringers/wisps are mineralized along remnant foliation seeming to follow Bt.
007-21-06	46.42	55.68	9.26	1B	Pillowed Flows	Dark green-grey, fine-med grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow salvages are green, and composed of plagioclase, epidote/diopside +/- amphibole. Sulphides are present as trace to very minor disseminations and occasional blebs/patches along fracture planes and adjacent to healed fractures at times cross-cutting the remnant foliation.
007-21-06	55.68	67.21	11.53	1Z	Gabbroic with gradational contacts	Fine-med grained, dark grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive amphibole alteration, with disseminated biotite and banded Di alteration can be identified within this unit. Weak to Moderately foliated. Minor 0.5 to 1 cm Qz veins are also observed within this unit without significant sulfides. From 59 to 61.30m, where it is more medium grained, there seems to be Bt alt stringers along foliation. Locally strong Bt alt (3) patches are observed adjacent to qz-feld veining and adjoining Di alt. Trace to very minor sulphides are present as disseminations and blebs along exposed fracture planes and often associated with Bt alt patches.
007-21-06	67.21	99.79	32.58	1B	Pillowed Flows	Dark green-grey, fine-med grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow salvages are green, and composed of plagioclase, epidote/diopside +/- amphibole. There is a section from 73-73.59m which shows alternating bands of BIF with patchy Bt alt and patchy/blebby mineralization Py locally reaching up to 1-2%. Py also occur as minor stringers and wisps mostly associated with Bt alt and occasionally with Di alt bands and adjacent to qz veining especially along wall rock laminations bounding the qz veins. Several minor 0.5 to 2cm qz veinlets are identified within the section with insignificant to trace sulphides. There are sections of 1A units and minor sections ranging from 5 to 10 cm of 4B, 2B and 5A (granitic?) within the unit that are less affected by the deformation events (?) except for the 5A (?). From 74.25 to 75.57 there are several minor low angle faults/fractures healed

007-21-06	99.79	103.67	3.88	1Z	Gabbroic with gradational contacts	Fine-med grained, dark grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive amphibole alteration, with disseminated biotite and banded Di alteration can be identified within this unit. Weak to Moderately foliated. Section 105.18 to 117 appears to be affected by comparatively higher amount of strain which developed foliation. This section could also be more attributed towards a 1B with remnant pillow selvages. Py/Po mineralization is identified within different parts of the unit in the form of patches and blebs associated to banded di and/or amp alterations, locally up to 1-2%. The unit appears to have been affected by fracturing and consequent healing. There are a few with very minor to 1cm qz veins which have insignificant sulphides present in them.
007-21-06	103.67	122	18.33	1A	Massive Flows	Fine-med grained, grey to dark green massive mafic flows. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Patchy amphibole alteration, with disseminated to very minor patchy biotite alteration. Moderate to strongly foliated which is exhibited throughout the section especially moderately to strongly altered/affected by strained section of pillowed flows (? 109-113.72m). Sulphides are present as disseminations and blebs, occasionally as stringers that cross-cut remnant foliation. Blebs occasionally appear bounding healed micro-fractures which cross-cuts foliation. Section 115 to 115.58 exhibits a med grained texture with moderate to strong deformation zones resulting in ptymatic folding or flow. Minerals appears to be plag, light-dark green amph, +/-qz.
007-21-06	122	126	4	1B	Pillowed Flows	Dark green-grey, fine-med grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow selvages are green, and composed of plagioclase, epidote/diopside +/- amphibole. Sulphides are present as disseminations and as blebs/patches within the unit in trace to 0.1-0.5%.. Often associated with banded Di and patchy Bt alt.
007-21-06	126	133	7	1A	Massive Flows	Fine-grained, grey to dark green massive mafic flows. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Patchy amphibole alteration, with disseminated to rare patchy biotite alteration. Weak to Moderate foliation is exhibited throughout the section.. Some units within shows remnant pillowed flows and exhibits weak to occasionally moderate Di alt bands. This unit also seems to have been affected by micro-fracturing & consequent healing. Trace to very minor sulphides mineralized as disseminations and blebs often associated with fracture surfaces bounding wall rock laminations. Section 132.40-132.60m has Gt porphyry's (?) associated with patches of Di alt(?), +/-Epidote (along fractures). Py/Po(?) blebs/patches of up to 1% is present within this altered zone.


007-21-06	133	146.6	13.6	1Z	Gabbroic with gradational contacts	Fine-med grained, dark grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive amphibole alteration, with disseminated biotite and banded Di alteration can be identified within this unit. Weak to Moderately foliated. From 134-134.12m , there is a 1cm qz vein with with undulated contacts with the wall rock. This seems to have bleached/alt the adjacent wall rock. Associated Ep (?), Di alt can be seen. Insignificant to trace sulphides present. Section 137.67-138.44 is affected by bleaching/alt possibly associated with a qz-fs vein intrusion. It is brecciated(?) affecting the remnant foliation. Fractures are healed and mineralized by a pale green mineral. Exposed fractures show dark green minerals (green amphiboles, epidote?). From 144.40-144.94m, there is a porphyritic unit (Pink fs, fs, qz) that seems to have a sharp-chilled contact with the wall rock almost parallel to the TCA
007-21-06	146.6	183.6	37	1B	Pillowed Flows	Dark green-grey, fine-med grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow salvages are green, and composed of plagioclase, epidote/diopside +/- amphibole. Within this 1B, there are sections which grades into units of of varying thicknesses of 1A, 1Z. From 150.5 to 150.55m and 151.47 to 152.10m there are two porphyritic units which appear to have a chilled-sharp contact with the wall rock. Consists of qz, fs, laths of dark-green mineral (ep?). From 161.2 to 161.56m and 162.47 to 163.36m , there is considerable lighter green colored bleaching/alteration possibly affected by micro-fz induced fluid interactions (Chlorite?, Di alt, epidote?) . Sulphides are present as blebs/patches mostly along fracture surfaces exposed along foliation planes (Occasionally up 1--5%) and also disseminations adjacent to minor qz veins and at times associated to Di and rare Bt/Gt(?) patches.
007-21-06	183.6	209.82	26.22	1Z	Gabbroic with gradational contacts	Fine-med grained, dark grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive amphibole alteration, with occasional disseminated biotite and banded Di alteration can be identified within this unit. Weak to Moderately foliated. Section 186.65 to 187.70 is broken and moderate to strongly bleached with a pale green (Chl alt) to dark green (Epidote?) color. Possible fracture induced fluid interaction and healing. Minor intrusive units within the section shows associated bleaching effect and at times pervasive wall rock alteration.
007-21-06	209.82	211.29	1.47	FZ	Fault Zone	Fractured and healed rock unit within the section that is also moderate to strongly altered especially along fractures. Remnant foliation is less visible and the unit appears to be also deformed as observed by the shearing/folding of remnant foliation. Brecciation of minor qz veining can be seen within this section. There appears to be fault gouging along the lower basal contact.

007-21-06	211.29	229.32	18.03	1B	Pillowed Flows	Dark green-grey, fine-med grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow salvages are green, and composed of plagioclase, epidote/diopside +/- amphibole. Within this 1B, there are sections which grades into units of of varying thicknesses of 1A, 1Z. There are various minor units of 2B, 4B which appears to have sharp contacts with wall rock. Many sections show fracture controlled alteration (Chl?) and associated healing. This is associated with minor qz and occasionally Calcite veining at very low angles to TCA. Banded Di and occasional Bt alteration is also observed within the unit. Sulphides are present as blebs/disseminations sometimes associated with patchy Bt alt(?). Sections from 216.04 to 216.14m and 216.41 to 216.53m shows evidence of micro-faulting possibly in alignment with the major fault zone near by.
007-21-06	229.32	235.93	6.61	1Z	Gabbroic with gradational contacts	Fine-med grained, dark grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive amphibole alteration, with disseminated biotite and banded Di alteration can be identified within this unit. Weak to Moderately foliated. The appears to be sections within the unit that have been affected by bleaching alt (?) by fluid interaction from associated nearby by faulting (?). Bleached sections show remnant foliation and texture/fabric similar to sections above and below. Most of the unit especially towards the basal contact, there appears to be more of fracture related healing and associated (Chl?) alt. Minor di alt banding can seen as well. There are several minor qz and occasional fs, calcite veins/veinlets throughout the unit and appears to be associated to the nearby fault.
007-21-06	235.93	247.21	11.28	FZ	Fault Zone	Fractured and healed rock unit within the section that is also moderate to strongly altered especially along fractures. Remnant foliation is less visible and the unit appears to be also deformed as observed by the shearing/folding of remnant foliation. Brecciation of minor qz veining can be seen within this section. There appears to be fault gouging along the lower basal contact. From 236.78 to 237m there is a milky(?) vein almost parallel to TCA and without significant sulphides. Also associated with minor fs (?) veining and/calcite. Remnant foliation and texture/fabric is less visible to due to strong brecciation and healing. There are minor units of altered 4B and 2B within affected by faulting and associated fluid induced alteration. Fault gouging present along basal contact. Very minor and occasionally up to 1% of sulphides present along fracture surfaces.

007-21-06	247.21	255.5	8.29	1Z	Gabbroic with gradational contacts	Fine-med grained, dark grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Alteration is not pervasive (Amp?) as the above units with occasional disseminated biotite. Banded Di alteration can be identified within this unit but is very weak compared to units above. Very minor fracture controlled epidote alteration. Weak to Moderately foliated. Py is present as blebs and patches along certain fractures.
007-21-06	255.5	265.95	10.45	1A	Massive Flows	Fine-grained, grey to dark green massive mafic flows. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Patchy amphibole alteration, with disseminated to rare patchy biotite alteration. Weak to Moderate foliation is exhibited throughout the section. Some units within shows remnant pillowed flows and exhibits weak to occasionally moderate Di alt bands. This unit also seems to have been affected by micro-fracturing & consequent healing. There are minor 5-15cm interlayers of felsic tuff/feldspar porphyry (?) within this unit. There are several 1-2 cm smoky qz/qz veins within this unit without significant sulphides associated. Occasionally cherty/siliceous bands are identified which are 1 to 3 cm in thickness usually parallel to remnant foliation.
007-21-06	265.95	276	10.05	1Z	Gabbroic with gradational contacts	Fine-med grained, dark grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Weak amphibole alteration, with disseminated biotite and banded Di alteration can be identified within this unit. Weak to Moderately foliated. This unit has a few 5 cm cherty bands/felsic tuffs(?) which trend parallel to the wall rock. From 265.95 to 266.0m there is a felsic tuff(?) layer adjacent to strongly Bt altered (Py ? blebs/stringer) and foliated sandwiched between another felsic tuff/4B unit from 266.09 to 266.68m.
007-21-06	276	277.85	1.85	1A	Massive Flows	Fine-grained, grey to dark green massive mafic flows. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Rare patchy amphibole alteration, with disseminated to rare patchy biotite alteration. Weak foliation is exhibited throughout the section. Minor 0.5 to 1cm qz veins can be seen within this unit.
007-21-06	277.85	280.1	2.25	1Z	Gabbroic with gradational contacts	Fine-med grained, dark grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. This unit is altered with a light maroon-greyish hue throughout. This could either be due to a bleaching effect. Remnant texture related to 1Z can be identified within the unit with foliation trend similar to the 1z layers above. There are minor cherty/siliceous layers within this unit. Trace sulphides present within this unit.

007-21-06	280.1	309	28.9	1B	Pillowed Flows	Dark green-grey, fine-med grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow salvages are green, and composed of plagioclase, epidote/diopside +/- amphibole. There is a pervasive green-amp(?) alteration throughout this unit giving this section a dark grey-green hue. Rare to trace sulphides present in the upper section. From 283 to the end of the unit, sulphides occur as disseminations and blebs often associated to qz veins and adjacent to wall rock-diopside alterations (?). There are a few 0.5 to 1cm smoky/clear qz veins without much significant sulphides associated to it. While some trend parallel to foliation, others at angles ranging between 45-60 degrees with TCA. There are 2 sections from 307.19--307.96m & 308.18-308.65m affected by fractures nearly parallel to the TCA. It seems to be along a qz-calcite vein, with trace to no sulphides present.
007-21-06	309	337.6	28.6	1A	Massive Flows	Fine-grained, grey to dark green massive mafic flows. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. There seems to be pervasive dark-green hue to the unit (green amphibole alt?), with disseminated to rare patchy biotite alteration. Banded Di alt is shown in minor sections of pillowed flows within this unit. Weak to moderate foliation is exhibited throughout the section, especially in possible pillowed flow units within. Sulphides are present as minor wisps and as blebs along/adjacent to Bt alt patches. There are a few 0.5 to 1cm smoky/qz veins within this unit with trace sulphides present especially along contact boundaries with wall rock. Sulphides are present as disseminations and minor blebs/wisps often associated with foliation trending Bt alteration patches(?)
007-21-06	337.6	371.12	33.52	1B	Pillowed Flows	Dark green-grey, fine-med grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow salvages are green, and composed of plagioclase, epidote/diopside +/- amphibole. There is a pervasive green-amp(?) alteration throughout this unit giving this section a dark grey-green hue. Alternating dark brownish grey colored bands can be observed throughout the unit, possibly due to Bt alt(?). Certain sections also seemed to be bleached/lighter toned giving it a light pale green to dark green hue (also due to banded Di alt(?)). There are a few qz veins (milky/smoky grey) from 0.5 to 1.5 cm in thickness within this unit, at times discontinuous and cross-cutting foliation. Sulphides occur as disseminations and occasionally along fracture zones associated to fracture healing/infillings (Chl alt(?), calcite veining). Certain sections from 355.97 to 356.26m and 366.45 to 366.92m show patchy/porphyritic Gt.

007-21-06	371.12	375.15	4.03	1Z	Gabbroic with gradational contacts	Fine-med grained, dark grey to dark green gabbro with gradational contacts. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Weak amphibole alteration, with disseminated biotite and banded Di alteration can be identified within this unit. Weak to Moderately foliated.
007-21-06	375.15	450	74.85	1B	Pillowed Flows	Dark green-grey, fine-med grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow salvages are green, and composed of plagioclase, epidote/diopside +/- amphibole. There is a pervasive green-amp(?) alteration throughout this unit giving this section a dark grey-green hue. There are bands of alternating banded Di alteration. Several 0.1 to 1 cm qz veins are present within this unit which are either parallel to foliation and at times cutting remnant foliation. There are also several 3-5cm to 0.5m units of 2B, 4B and minor sections of 1A. The 2B units grade at times in to a coarser grained porphyritic 4B (?). Several cherty bands are also prevalent within this unit. Sulphides are present as disseminations and as blebs often associated with the dark grey Bt alt patch. Qz veins are also mostly devoid of any visible Py/Po?. Garnet porphyroblasts/patches are observed along certain sections.

		Hole Number:		007-21-07						
		Drill Rig:		G4-13						
		Claim Number:		531265						
Location		Drill Hole Orientation		Dates Drilled:	Start Date:		End Date:			
Surface					10/12/2021		10/16/2021			
Planned Coordinates		Azimuth:	120	Drill Contractor:	G4 Drilling Canada Ltd.					
Easting	642705				Dip:	-55	Dates Logged:	Start Date:		End Date:
Northing	5415109							10/13/2021		10/17/2021
Elevation(m)	405	Depth(m):	396.00	Logger 1:				Antony Mohan		
Final Pick up					Core Size:	NQ	Logger 2:	Derek Smyth		
Easting	642712.3							Logger 3:		
Northing	5415105	Assay Lab:	Actlabs							
Elevation(m)	375.70									
Casing										
Purpose of Hole	Test the down dip continuity of the 007 showing - located 100 meters south along strike of the 007 showing.	Dip Tests								
		Depth (m)	Az.	Dip	Mag	Notes	Az Uncor.			
Results		21	119.1	-53.8	56126		126.7			
		51	120.9	-52.8	55752		128.5			
		81	121.5	-51.1	55563		129.1			
		111	121.9	-50.1	55679		129.5			
		141	122.2	-49.4	55751		129.8			
		171	122.2	-48.7	55645		129.8			
		201	122.6	-48.2	55755		130.2			
		231	123.2	-47.6	55521		130.8			
		261	122.7	-46.8	55628		130.3			
		291	122.9	-45	55443		130.5			
		321	123.7	-43	55529		131.3			
		351	125.4	-43.4	55356		133			
		387	121.6	-42.4	55661		129.2			
Comments			-7.6							
			-7.6							
			-7.6							
			-7.6							
			-7.6							
Azimuth corrected to 7.6 degrees west declination			-7.6							

BHID	FROM_M	TO_M	LENGTH_M	ROCK_CODE	ROCK	COMMENTS
007-21-07	0	5.65	5.65	CAS	Casing	
007-21-07	5.65	67.4	61.75	1B	Pillowed Flows	Dark green-grey, fine-med grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow salvages are green, and composed of plagioclase, epidote/diopside +/- amphibole. This unit shows alternating bands of Di alt(?) with patchy/blebby mineralization of Py/Po(?) locally reaching up to 0.1-10%. Py also occur as minor stringers and wisps mostly associated with exposed fracture surfaces and adjacent to qz veins especially along wall rock laminations bounding the qz veins. There are several minor 0.5 to 2cm qz veinlets that are identified within the section with trace to up to 1% sulphides. Within this unit there are minor sections of 1Z, 2B (varying thickness of 5-20cm). The remnant foliation is at times affected by micro-faulting and consequent healing at angles of 15-30 degree with the TCA. Calcite veining and Chl (?) alt is observed along the same. Upper section affected by weathering.
007-21-07	67.4	73.1	5.7	1Z	Gabbroic with gradational contacts	Medium grained to coarse grained, grey to dark green mafic unit with a massive texture. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with a moderate amount of banded biotite alteration in sections. Blocky core from 74.5 m to 74.8m.
007-21-07	73.1	79.73	6.63	1A	Massive Flows	Fine to medium grained, grey to dark green mafic flow with a massive to banded texture. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with a moderate amount of banded biotite alteration in sections. Narrow feldspar porphyry/felsite sections associated with healed fracturing. Blocky core from 74.5 to 74.8. Healed fractures from 74.85 to 76 associated with blebby py in sections. Occasional quartz stringers from 74 to 81m; 2 cm wide veinlet at 80.8m.
007-21-07	79.73	91.55	11.82	1B	Pillowed Flows	Fine grained, dark green to dark grey pillowed mafic unit with a banded to pillowed texture. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase. Millimetric to centimetric wide light green alteration bands composed of chlorite/epidote/diopside throughout. Narrow quartz stringers, wisps, and veinlets intermittently throughout. Quartz veinlets partially cutting core observed at 86.45 to 86.55m.
007-21-07	91.55	93.54	1.99	4B	Feldspar Porphyry	Fg to mg, grey felsic unit with a massive to porphyritic texture. Unit is composed predominately of a fine grained felsic and biotite ground mass with some faint strained millimetric sized phenocrysts. Minor amounts of fracture controlled sericite alteration throughout. up to 1-2% finely disseminated po/py. Occasional narrow quartz stringers observed.
007-21-07	93.54	102.95	9.41	1B	Pillowed Flows	Fine grained, dark green to dark grey pillowed mafic unit with a banded to pillowed texture. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase. Overall foliation is low to moderate Millimetric to centimetric wide light green alteration bands composed of chlorite/epidote/diopside throughout. Occasional Narrow quartz stringers. Fault gauge and broken core (~10cm wide) observed at 97m and 99.1m. Narrow section of felsic tuff at 98.95 to 99.05m.
007-21-07	102.95	105.12	2.17	5A	Granite	mg, white to pale pink felsic unit composed predominately of pink/grey feldspar, will lesser amounts of sericite and Smokey quartz. Final 20 cm is blocky.
007-21-07	105.12	115.05	9.93	1A	Massive Flows	Fine to medium grained, grey to dark green mafic flow with a massive to banded texture. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with a moderate amount of banded biotite alteration in sections.
007-21-07	115.05	122.32	7.27	1Z	Gabbroic with gradational contacts	Medium grained to coarse grained, grey to dark green mafic unit with a massive texture. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with a moderate amount of banded biotite alteration in sections. 12 cm wide qv at 117.8m
007-21-07	122.32	125.7	3.38	1A	Massive Flows	Fine to medium grained, grey to dark green mafic flow with a massive to banded texture. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with a moderate amount of banded biotite alteration in sections.
007-21-07	125.7	158.92	33.22	1B	Pillowed Flows	Fine grained, dark green to dark grey pillowed mafic unit with a banded to pillowed texture. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase. Overall foliation is low to moderate Millimetric to centimetric wide light green alteration bands composed of chlorite/epidote/diopside throughout. Intermittent narrow quartz stringers, wisps, and veinlets. iron formation from 126.03 to 126.38 and 126.6 to 126.74m containing 5-10% finely diss po/py. Narrow quartz / carb veinlets at 127m, 129.47m, 134, and 134.35m. Blocky core from 131.8 to 132m. Blebby po from 135.33 to 140m.

007-21-07	158.92	160.42	1.5	2B	Felsic Tuff	Fg, grey to purple, highly siliceous unit with a banded/bedded texture. Unit is composed predominately of fg silica/feldspar with lesser amounts of mica. Some bands appear to be more siliceous than others, dark green mafic bands observed intermittently throughout as well. Potentially an iron formation
007-21-07	160.42	163.6	3.18	1Z	Gabbroic with gradational contacts	Medium grained, grey to dark green mafic unit with a massive texture. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration. Blocky core from 155.7 to 156.
007-21-07	163.6	164.86	1.26	6E	Intermediate Dyke	fg, dark grey unit, composed of equal proportions of lighter grey minerals and fine dark/black minerals. Weakly foliated.
007-21-07	164.86	202.62	37.76	1Z	Gabbroic with gradational contacts	Fine grained to coarse grained, grey to dark green mafic unit with a massive texture. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. 1cm wide fault gauge at 167.4m and 167.9m. Quartz veinlet at 185.2m. Foliation angles are reduced in this unit relative to the unit above (~ 35 degrees tca). Gradual increase in fracturing from 195m to 202.62m. Series of quartz veinlets from 186.5 to 187.1
007-21-07	202.62	210.2	7.58	FZ	Fault Zone	fg to mg, blocky dark green to grey mafic unit. Blocky core throughout much of the unit with lighter grey to white healed fractures visible throughout. Quartz/carbonate along healed fractures. Trace blebby pyrite throughout.
007-21-07	210.2	246.75	36.55	1B	Pillowed Flows	Fine grained, dark green to dark grey pillowed mafic unit with a banded to pillowed texture. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase. Overall foliation is low to moderate Millimetric to centimetric wide light green alteration bands composed of chlorite/epidote/diopside throughout. Intermittent narrow quartz stringers, wisps, and veinlets. Trace blebby pyrite from 227 to 229m. Quartz veins/veinlets associated with calcite/chlorite.
007-21-07	246.75	252	5.25	2B	Felsic Tuff	Fg, grey to purple, highly siliceous unit with a banded/bedded texture. Unit is composed predominately of fg silica/feldspar with lesser amounts of mica. Some bands appear to be more siliceous than others, dark green mafic bands observed intermittently throughout as well. Trace disseminated sulfide as po, cpy, and py. Upper contact is defined as a possible minor unit of iron formation. Lower contact defined by 11cm thick quartz vein.
007-21-07	252	258.85	6.85	1Z	Gabbroic with gradational contacts	Medium to coarse grained, grey to dark green mafic unit with a massive texture. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration.
007-21-07	258.85	274.5	15.65	1A	Massive Flows	Fine to medium grained, grey to dark green mafic flow with a massive to banded texture. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with a moderate amount of banded biotite alteration in sections.
007-21-07	274.5	288.93	14.43	1B	Pillowed Flows	Fine grained, dark green to dark grey pillowed mafic unit with a banded to pillowed texture. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase. Overall foliation is low to moderate Millimetric to centimetric wide light green alteration bands composed of chlorite/epidote/diopside throughout. Intermittent narrow quartz stringers, wisps, and veinlets. Quartz veins/veinlets associated with calcite/chlorite. Upper contact is defined by minor unit of felsic tuff.
007-21-07	288.93	301.4	12.47	1A	Massive Flows	Fine to medium grained, grey to dark green mafic flow with a massive to banded texture. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with a moderate amount of banded biotite alteration in sections. Quartz veins/veinlets scattered throughout.
007-21-07	301.4	303.4	2	2B	Felsic Tuff	Fg, grey to purple, highly siliceous unit with a banded/bedded texture. Unit is composed predominately of fg silica/feldspar with lesser amounts of mica. Some bands appear to be more siliceous than others, Core discing near upper contact.
007-21-07	303.4	347.2	43.8	1A	Massive Flows	Fine to medium grained, grey to dark green mafic flow with a massive to banded texture. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration, with a moderate amount of banded biotite alteration in sections. Quartz veins/veinlets scattered throughout. Minor intermittent (<30cm) feldspar porphyry dykes. Disseminated trace sulfides of py and po throughout. Trace chalcopyrite mainly associated with quartz veins.
007-21-07	347.2	360.17	12.97	1B	Pillowed Flows	Fine grained, dark green to dark grey pillowed mafic unit with a banded to pillowed texture. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase. Overall foliation is low to moderate millimetric to centimetric wide light green alteration bands composed of chlorite/epidote/diopside throughout. Intermittent narrow quartz stringers, wisps, and veinlets. From approximately 354m to lower contact intermittent bands and patches of millimetric size garnet porphyroblasts appear. Possibly interfingering minor bands of iron formation. Lower contact is gradational with the appearance of a significant increase in garnet porphyroblasts and felsic banding. Unit appears barren of sulfides overall.

007-21-07	360.17	364.73	4.56	3D	Iron Formation	Fine grained, dark grey, altered iron formation unit with a slightly banded texture (remnant foliation) with gradational upper and lower contacts. Unit is composed predominately of mafic minerals with sections of increased felsics occurring as bands. Weakly magnetic with magnetic occurring mostly in discrete bands. Weak to moderately foliated. Unit also contains 30-40% anhedral to subhedral porphyroblasts of garnet 0.1-1.5cm in size. Garnets appears to have a snowflake like habit overall. Unit appears barren of sulfides overall.
007-21-07	364.73	366	1.27	5B	Granodiorite	Fine to medium grained, white to light grey silicified granodiorite unit. Composed mostly of quartz and plagioclase with lower amounts of biotite and amphibole. Pinhead sized garnet porphyroblasts occur disseminated throughout. Upper and lower contacts are knife sharp.
007-21-07	366	380.25	14.25	3D	Iron Formation	Fine grained, dark grey, altered iron formation unit with a slightly banded texture (remnant foliation) with gradational upper and lower contacts. Unit is composed predominately of mafic minerals. Weakly magnetic with magnetic occurring mostly in discrete bands. Weakly to moderately foliated. Unit also contains 30-40% anhedral to subhedral porphyroblasts of garnet 0.1-1.5cm in size. Garnets increase to 30-40% starting at 368m. Garnets appears to have a snowflake like habit overall. 3-5% po, tr-1% py from 368-374m.
007-21-07	380.25	383.05	2.8	1B	Pillowed Flows	Fine grained, dark green to dark grey pillowed mafic unit with a banded to pillowed texture. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase. Overall foliation is low to moderate millimetric to centimetric wide light green alteration bands composed of chlorite/epidote/diopside throughout. Intermittent narrow quartz stringers, wisps, and veinlets. Intermittent bands and patches of millimetric size garnet porphyroblasts. 1-2% po, tr-1% py disseminated throughout. Lower contact is sharp.
007-21-07	383.05	389.45	6.4	1Z	Gabbroic with gradational contacts	Medium to coarse grained, grey to dark green mafic unit with a massive texture. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration. Minor patches of thin bands of garnets throughout. 1-3mm sized amphibole phenocrysts scattered throughout. Lower contact is gradational.
007-21-07	389.45	392.58	3.13	1B	Pillowed Flows	Fine grained, dark green to dark grey pillowed mafic unit with a banded to pillowed texture. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase. Overall foliation is low to moderate millimetric to centimetric wide light green alteration bands composed of chlorite/epidote/diopside throughout. Intermittent narrow quartz stringers, wisps, and veinlets. Thin bands of fine-grained garnet scattered throughout. Gradational lower contact.
007-21-07	392.58	396	3.42	1Z	Gabbroic with gradational contacts	Medium to coarse grained, grey to dark green mafic unit with a massive texture. Unit is composed predominately of mafic minerals with lesser amounts of grey plagioclase interstitially. Pervasive chlorite alteration. Minor patches of thin bands of garnets throughout. 1-3mm sized amphibole phenocrysts scattered throughout.

BHID	AREA	LAB	COA NUMBER	SAMPLE_TYPE	FROM_M	TO_M	LENGTH_M	SAMPLE_NUMBER	Au Final	Au PPB	Au GRAV	Au PM
007-21-07	007 Zone	Actlabs	A21-19795	Original	10.03	10.4	0.37	831581	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	10.4	11.2	0.8	831582	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	11.2	11.55	0.35	831583	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	11.55	12	0.45	831584	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	15	16	1	831585	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	16	17	1	831586	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	17	18	1	831587	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	18	18.87	0.87	831588	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	18.87	19.5	0.63	831589	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Control			0	831590	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	19.5	20	0.5	831591	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	20	20.5	0.5	831592	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	20.5	21	0.5	831593	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	21	22	1	831594	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	22	22.88	0.88	831595	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	25.14	25.49	0.35	831596	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	25.49	26	0.51	831597	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	26	27	1	831598	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	27	28	1	831599	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Control			0	831600	6.78	6780		
007-21-07	007 Zone	Actlabs	A21-19795	Original	28	28.4	0.4	831601	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	28.4	29	0.6	831602	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	29	30	1	831603	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	30	30.45	0.45	831604	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	30.45	31	0.55	831605	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	31	31.63	0.63	831606	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	31.63	32	0.37	831607	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	32	32.3	0.3	831608	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	32.3	32.79	0.49	831609	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Control			0	831610	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	32.79	34	1.21	831611	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	34	34.84	0.84	831612	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	34.84	35.33	0.49	831613	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	35.33	36	0.67	831614	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	36	37	1	831615	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	37	38	1	831616	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	38	39	1	831617	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	39	39.68	0.68	831618	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	39.68	40.2	0.52	831619	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Control			0	831620	3.54	3540		
007-21-07	007 Zone	Actlabs	A21-19795	Original	40.2	41	0.8	831621	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	41	42	1	831622	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	42	43	1	831623	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	43	44	1	831624	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	44	45	1	831625	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	45	46	1	831626	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	46	46.43	0.43	831627	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	46.43	47	0.57	831628	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	47	48	1	831629	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Control			0	831630	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	49.04	49.44	0.4	831631	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	49.44	50	0.56	831632	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	50	51	1	831633	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	51	52	1	831634	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	52	52.5	0.5	831635	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	52.5	53	0.5	831636	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	53	54	1	831637	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	54	55	1	831638	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	55	56	1	831639	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Control			0	831640	5.49	5490		
007-21-07	007 Zone	Actlabs	A21-19795	Original	56	57	1	831641	0.006	6		
007-21-07	007 Zone	Actlabs	A21-19795	Original	65	65.5	0.5	831642	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	65.5	66.18	0.68	831643	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	66.18	66.58	0.4	831644	0.0025	2.5		

007-21-07	007 Zone	Actlabs	A21-19795	Original	66.58	67	0.42	831645	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	67	67.4	0.4	831646	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	74.85	75.33	0.48	831647	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	75.33	76	0.67	831648	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	76	77	1	831649	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Control			0	831650	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	77	78.03	1.03	831651	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	78.03	78.55	0.52	831652	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	78.55	79	0.45	831653	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	79	79.73	0.73	831654	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	79.73	80.35	0.62	831655	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	80.35	81	0.65	831656	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	81	81.5	0.5	831657	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	86	86.45	0.45	831658	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	86.45	87	0.55	831659	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Control			0	831660	6.71	6710		
007-21-07	007 Zone	Actlabs	A21-19795	Original	87	88	1	831661	0.006	6		
007-21-07	007 Zone	Actlabs	A21-19795	Original	88	89	1	831662	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	89	90	1	831663	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	90	91	1	831664	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	91	91.55	0.55	831665	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	91.55	92	0.45	831666	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	92	93	1	831667	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	93	93.54	0.54	831668	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	93.54	94.5	0.96	831669	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Control			0	831670	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	117	117.7	0.7	831671	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	117.7	118	0.3	831672	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	118	118.45	0.45	831673	0.005	5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	125.7	126.03	0.33	831674	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	126.03	126.38	0.35	831675	0.005	5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	126.38	127	0.62	831676	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	127	128	1	831677	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	128	129	1	831678	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	129	129.5	0.5	831679	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Control			0	831680	3.71	3710		
007-21-07	007 Zone	Actlabs	A21-19795	Original	129.5	130	0.5	831681	0.006	6		
007-21-07	007 Zone	Actlabs	A21-19795	Original	130	131	1	831682	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	131	132	1	831683	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	132	133	1	831684	0.008	8		
007-21-07	007 Zone	Actlabs	A21-19795	Original	133	133.5	0.5	831685	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	133.5	133.9	0.4	831686	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	133.9	134.4	0.5	831687	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	134.4	135	0.6	831688	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	135	135.6	0.6	831689	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Control			0	831690	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	139.33	140	0.67	831691	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	140	141	1	831692	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	141	142	1	831693	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	142	143	1	831694	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	143	144	1	831695	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	144	145	1	831696	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	145	146	1	831697	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	146	146.5	0.5	831698	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	146.5	147	0.5	831699	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Control			0	831700	5.44	5440		
007-21-07	007 Zone	Actlabs	A21-19795	Original	147	147.3	0.3	831701	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	147.3	147.86	0.56	831702	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	147.86	149	1.14	831703	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	149	150	1	831704	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	150	151	1	831705	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	151	152.32	1.32	831706	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	152.32	152.7	0.38	831707	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	152.7	153	0.3	831708	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	157.5	158	0.5	831709	0.0025	2.5		

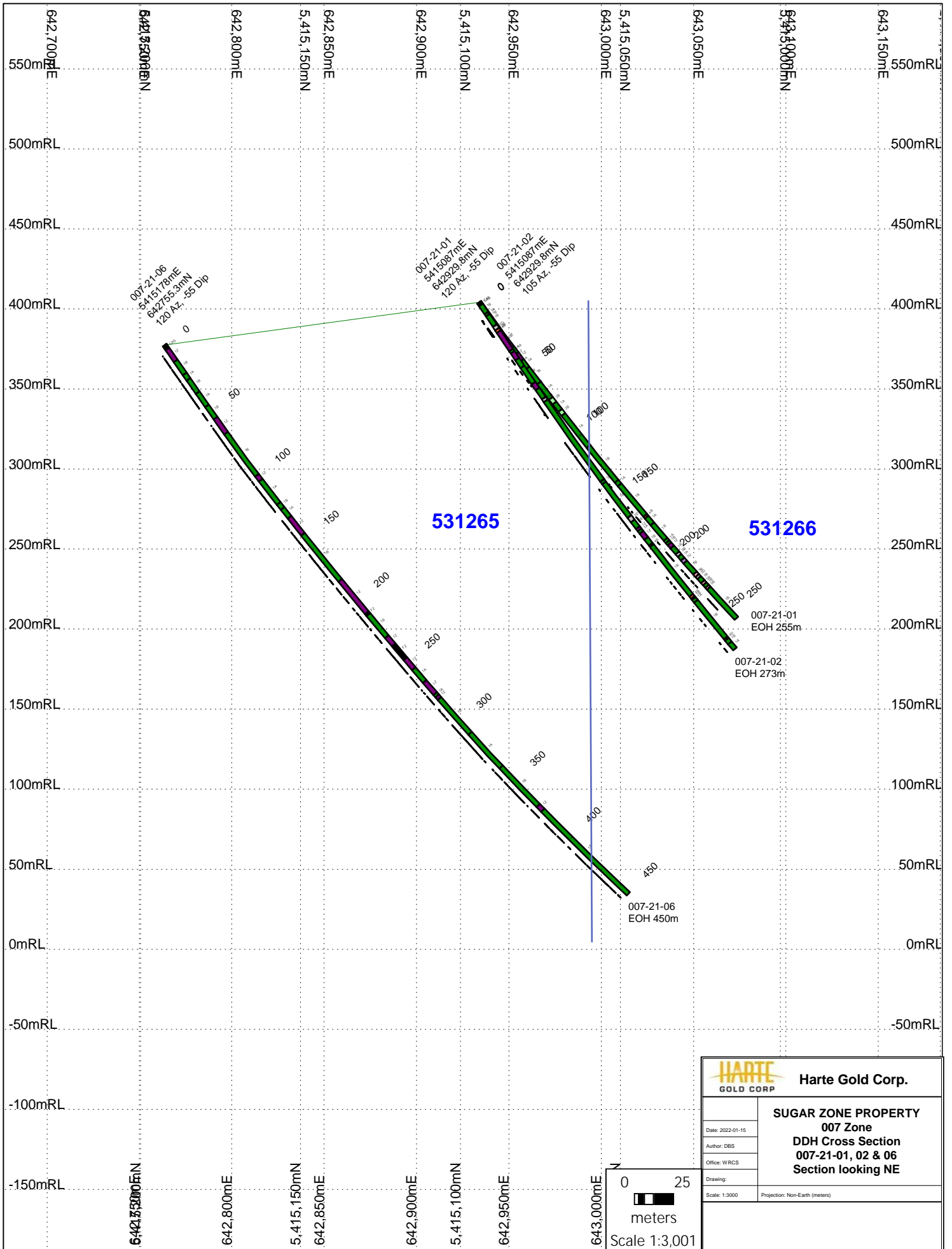
007-21-07	007 Zone	Actlabs	A21-19795	Control			0	831710	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	158	158.4	0.4	831711	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	158.4	158.92	0.52	831712	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	158.92	160	1.08	831713	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	160	160.42	0.42	831714	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	160.42	160.75	0.33	831715	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	160.75	161.2	0.45	831716	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	161.2	161.75	0.55	831717	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	182.69	183.5	0.81	831718	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	183.5	184.5	1	831719	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Control			0	831720	6.62	6620		
007-21-07	007 Zone	Actlabs	A21-19795	Original	184.5	185	0.5	831721	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	185	185.5	0.5	831722	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	185.5	186.5	1	831723	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	186.5	187.1	0.6	831724	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	187.1	188	0.9	831725	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	188	189	1	831726	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	189	190	1	831727	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	190	191	1	831728	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	191	192	1	831729	0.005	5		
007-21-07	007 Zone	Actlabs	A21-19795	Control			0	831730	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	192	193	1	831731	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	193	193.4	0.4	831732	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	193.4	193.8	0.4	831733	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	193.8	194.7	0.9	831734	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	194.7	195	0.3	831735	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	204	205	1	831736	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	205	206	1	831737	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	206	207	1	831738	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	207	208	1	831739	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Control			0	831740	3.46	3460		
007-21-07	007 Zone	Actlabs	A21-19795	Original	208	209	1	831741	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	209	210.2	1.2	831742	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	210.2	211	0.8	831743	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	211	212	1	831744	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	212	213	1	831745	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	213	213.45	0.45	831746	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	213.45	213.75	0.3	831747	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	213.75	214.15	0.4	831748	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	218.35	218.7	0.35	831749	0.005	5		
007-21-07	007 Zone	Actlabs	A21-19795	Control			0	831750	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	218.7	219	0.3	831751	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	219	219.4	0.4	831752	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	225	226	1	831753	0.005	5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	226	227	1	831754	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	227	228	1	831755	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	228	229	1	831756	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	231	232	1	831757	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	232	232.3	0.3	831758	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Original	232.3	232.7	0.4	831759	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-19795	Control			0	831760	5.49	5490		
007-21-07	007 Zone	Actlabs	A21-20008	Original	232.7	233.07	0.37	831761	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	233.07	234	0.93	831762	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	234	234.5	0.5	831763	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	234.5	234.9	0.4	831764	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	234.9	236	1.1	831765	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	236	236.3	0.3	831766	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	236.3	237	0.7	831767	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	239.36	239.7	0.34	831768	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	239.7	240	0.3	831769	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Control			0	831770	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	240	241	1	831771	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	243	243.7	0.7	831772	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	243.7	244	0.3	831773	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	244	244.5	0.5	831774	0.0025	2.5		

007-21-07	007 Zone	Actlabs	A21-20008	Original	246.16	246.75	0.59	831775	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	246.75	247.23	0.48	831776	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	247.23	248	0.77	831777	0.007	7		
007-21-07	007 Zone	Actlabs	A21-20008	Original	248	249	1	831778	0.006	6		
007-21-07	007 Zone	Actlabs	A21-20008	Original	249	250	1	831779	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Control			0	831780	6.87	6870		
007-21-07	007 Zone	Actlabs	A21-20008	Original	250	250.55	0.55	831781	0.007	7		
007-21-07	007 Zone	Actlabs	A21-20008	Original	250.55	251.4	0.85	831782	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	251.4	251.7	0.3	831783	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	251.7	252	0.3	831784	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	252	253	1	831785	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	261.4	261.7	0.3	831786	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	261.7	262	0.3	831787	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	262	262.5	0.5	831788	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	264.9	265.2	0.3	831789	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Control			0	831790	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	265.2	265.5	0.3	831791	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	265.5	265.8	0.3	831792	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	265.8	266.2	0.4	831793	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	269.85	270.25	0.4	831794	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	270.25	270.55	0.3	831795	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	270.55	270.88	0.33	831796	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	270.88	271.55	0.67	831797	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	271.55	271.8	0.25	831798	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	271.8	272.23	0.43	831799	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Control			0	831800	3.56	3560		
007-21-07	007 Zone	Actlabs	A21-20008	Original	273.55	273.9	0.35	831801	0.005	5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	273.9	274.5	0.6	831802	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	274.5	275	0.5	831803	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	275	275.33	0.33	831804	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	275.33	275.72	0.39	831805	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	279.4	279.73	0.33	831806	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	279.73	280.08	0.35	831807	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	280.08	280.43	0.35	831808	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	280.43	280.75	0.32	831809	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Control			0	831810	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	280.75	281.2	0.45	831811	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	281.2	282	0.8	831812	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	282	283	1	831813	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	283	283.3	0.3	831814	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	283.3	284.12	0.82	831815	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	284.12	284.53	0.41	831816	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	284.53	285	0.47	831817	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	287.3	287.6	0.3	831818	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	287.6	287.9	0.3	831819	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Control			0	831820	5.45	5450		
007-21-07	007 Zone	Actlabs	A21-20008	Original	287.9	288.3	0.4	831821	0.005	5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	288.3	288.93	0.63	831822	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	288.93	289.3	0.37	831823	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	291	291.35	0.35	831824	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	291.35	291.61	0.26	831825	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	291.61	292	0.39	831826	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	292	292.35	0.35	831827	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	294.4	294.8	0.4	831828	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	294.8	295.15	0.35	831829	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Control			0	831830	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	295.15	295.45	0.3	831831	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	295.45	295.76	0.31	831832	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	295.76	296.2	0.44	831833	0.006	6		
007-21-07	007 Zone	Actlabs	A21-20008	Original	296.2	296.6	0.4	831834	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	296.6	297	0.4	831835	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	297	297.36	0.36	831836	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	297.36	297.83	0.47	831837	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	301	301.4	0.4	831838	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	301.4	302	0.6	831839	0.0025	2.5		

007-21-07	007 Zone	Actlabs	A21-20008	Control			0	831840	6.86	6860		
007-21-07	007 Zone	Actlabs	A21-20008	Original	302	303	1	831841	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	303	303.4	0.4	831842	0.005	5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	303.4	303.74	0.34	831843	0.005	5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	308	308.38	0.38	831844	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	308.38	308.7	0.32	831845	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	308.7	309.1	0.4	831846	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	309.1	315.75	6.65	831847	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	315.75	316.2	0.45	831848	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	316.2	317	0.8	831849	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Control			0	831850	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	317	318	1	831851	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	318	319	1	831852	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	319	319.4	0.4	831853	0.006	6		
007-21-07	007 Zone	Actlabs	A21-20008	Original	319.4	320	0.6	831854	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	320	321	1	831855	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	321	321.78	0.78	831856	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	321.78	322.1	0.32	831857	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	322.1	323	0.9	831858	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	323	323.54	0.54	831859	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Control			0	831860	3.5	3500		
007-21-07	007 Zone	Actlabs	A21-20008	Original	323.54	324	0.46	831861	0.005	5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	324	325	1	831862	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	325	326	1	831863	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	326	327	1	831864	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	327	328	1	831865	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	328	328.3	0.3	831866	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	328.3	329	0.7	831867	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	329	330	1	831868	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	330	330.83	0.83	831869	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Control			0	831870	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	330.83	331.7	0.87	831871	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	331.7	332.27	0.57	831872	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	332.27	332.65	0.38	831873	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	332.65	333	0.35	831874	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	333	334	1	831875	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	334	335	1	831876	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	335	336	1	831877	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	336	336.6	0.6	831878	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	336.6	336.9	0.3	831879	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Control			0	831880	5.49	5490		
007-21-07	007 Zone	Actlabs	A21-20008	Original	336.9	337.2	0.3	831881	0.005	5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	337.2	337.5	0.3	831882	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	337.5	338.5	1	831883	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	338.5	338.8	0.3	831884	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	338.8	339.1	0.3	831885	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	339.1	339.4	0.3	831886	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	339.4	339.7	0.3	831887	0.005	5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	339.7	340	0.3	831888	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	340	341	1	831889	0.005	5		
007-21-07	007 Zone	Actlabs	A21-20008	Control			0	831890	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	341	341.3	0.3	831891	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	341.3	341.6	0.3	831892	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	341.6	341.9	0.3	831893	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	341.9	343	1.1	831894	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	343	344	1	831895	0.005	5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	344	345	1	831896	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	345	345.4	0.4	831897	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	345.4	345.7	0.3	831898	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	345.7	346	0.3	831899	0.006	6		
007-21-07	007 Zone	Actlabs	A21-20008	Control			0	831900	6.66	6660		
007-21-07	007 Zone	Actlabs	A21-20008	Original	346	346.65	0.65	831901	0.009	9		
007-21-07	007 Zone	Actlabs	A21-20008	Original	346.65	347.2	0.55	831902	0.009	9		
007-21-07	007 Zone	Actlabs	A21-20008	Original	347.2	348.2	1	831903	0.008	8		
007-21-07	007 Zone	Actlabs	A21-20008	Original	348.2	348.5	0.3	831904	0.008	8		

007-21-07	007 Zone	Actlabs	A21-20008	Original	348.5	348.9	0.4	831905	0.008	8		
007-21-07	007 Zone	Actlabs	A21-20008	Original	348.9	349.6	0.7	831906	0.007	7		
007-21-07	007 Zone	Actlabs	A21-20008	Original	349.6	349.9	0.3	831907	0.006	6		
007-21-07	007 Zone	Actlabs	A21-20008	Original	349.9	350.4	0.5	831908	0.007	7		
007-21-07	007 Zone	Actlabs	A21-20008	Original	350.4	351	0.6	831909	0.008	8		
007-21-07	007 Zone	Actlabs	A21-20008	Control			0	831910	0.005	5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	351	352	1	831911	0.008	8		
007-21-07	007 Zone	Actlabs	A21-20008	Original	352	353	1	831912	0.005	5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	353	353.3	0.3	831913	0.008	8		
007-21-07	007 Zone	Actlabs	A21-20008	Original	353.3	353.6	0.3	831914	0.008	8		
007-21-07	007 Zone	Actlabs	A21-20008	Original	353.6	354	0.4	831915	0.006	6		
007-21-07	007 Zone	Actlabs	A21-20008	Original	354	354.66	0.66	831916	0.006	6		
007-21-07	007 Zone	Actlabs	A21-20008	Original	354.66	355	0.34	831917	0.007	7		
007-21-07	007 Zone	Actlabs	A21-20008	Original	355	356	1	831918	0.079	79		
007-21-07	007 Zone	Actlabs	A21-20008	Original	356	356.6	0.6	831919	0.008	8		
007-21-07	007 Zone	Actlabs	A21-20008	Control			0	831920	3.6	3600		
007-21-07	007 Zone	Actlabs	A21-20008	Original	356.6	356.9	0.3	831921	0.014	14		
007-21-07	007 Zone	Actlabs	A21-20008	Original	356.9	357.4	0.5	831922	0.006	6		
007-21-07	007 Zone	Actlabs	A21-20008	Original	357.4	357.7	0.3	831923	0.008	8		
007-21-07	007 Zone	Actlabs	A21-20008	Original	357.7	358.64	0.94	831924	0.007	7		
007-21-07	007 Zone	Actlabs	A21-20008	Original	358.64	358.93	0.29	831925	0.01	10		
007-21-07	007 Zone	Actlabs	A21-20008	Original	358.93	359.3	0.37	831926	0.012	12		
007-21-07	007 Zone	Actlabs	A21-20008	Original	359.3	360.17	0.87	831927	0.006	6		
007-21-07	007 Zone	Actlabs	A21-20008	Original	360.17	361	0.83	831928	0.009	9		
007-21-07	007 Zone	Actlabs	A21-20008	Original	361	362	1	831929	0.007	7		
007-21-07	007 Zone	Actlabs	A21-20008	Control			0	831930	0.005	5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	362	363	1	831931	0.008	8		
007-21-07	007 Zone	Actlabs	A21-20008	Original	363	364	1	831932	0.008	8		
007-21-07	007 Zone	Actlabs	A21-20008	Original	364	364.73	0.73	831933	0.008	8		
007-21-07	007 Zone	Actlabs	A21-20008	Original	364.73	365.22	0.49	831934	0.007	7		
007-21-07	007 Zone	Actlabs	A21-20008	Original	366	367	1	831935	0.006	6		
007-21-07	007 Zone	Actlabs	A21-20008	Original	367	368	1	831936	0.008	8		
007-21-07	007 Zone	Actlabs	A21-20008	Original	368	369	1	831937	0.011	11		
007-21-07	007 Zone	Actlabs	A21-20008	Original	369	370	1	831938	0.009	9		
007-21-07	007 Zone	Actlabs	A21-20008	Original	370	371	1	831939	0.006	6		
007-21-07	007 Zone	Actlabs	A21-20008	Control			0	831940	5.47	5470		
007-21-07	007 Zone	Actlabs	A21-20008	Original	371	372	1	831941	0.011	11		
007-21-07	007 Zone	Actlabs	A21-20008	Original	372	373	1	831942	0.006	6		
007-21-07	007 Zone	Actlabs	A21-20008	Original	373	374	1	831943	0.008	8		
007-21-07	007 Zone	Actlabs	A21-20008	Original	374	375	1	831944	0.007	7		
007-21-07	007 Zone	Actlabs	A21-20008	Original	375	376	1	831945	0.008	8		
007-21-07	007 Zone	Actlabs	A21-20008	Original	376	377	1	831946	0.008	8		
007-21-07	007 Zone	Actlabs	A21-20008	Original	377	377.7	0.7	831947	0.008	8		
007-21-07	007 Zone	Actlabs	A21-20008	Original	377.7	378	0.3	831948	0.008	8		
007-21-07	007 Zone	Actlabs	A21-20008	Original	378	379	1	831949	0.009	9		
007-21-07	007 Zone	Actlabs	A21-20008	Control			0	831950	0.005	5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	379	380.25	1.25	831951	0.007	7		
007-21-07	007 Zone	Actlabs	A21-20008	Original	380.25	380.55	0.3	831952	0.026	26		
007-21-07	007 Zone	Actlabs	A21-20008	Original	380.55	380.85	0.3	831953	0.13	130		
007-21-07	007 Zone	Actlabs	A21-20008	Original	380.85	381.18	0.33	831954	0.009	9		
007-21-07	007 Zone	Actlabs	A21-20008	Original	381.18	381.95	0.77	831955	0.007	7		
007-21-07	007 Zone	Actlabs	A21-20008	Original	381.95	382.47	0.52	831956	0.008	8		
007-21-07	007 Zone	Actlabs	A21-20008	Original	382.47	382.77	0.3	831957	0.006	6		
007-21-07	007 Zone	Actlabs	A21-20008	Original	382.77	383.05	0.28	831958	0.007	7		
007-21-07	007 Zone	Actlabs	A21-20008	Original	383.05	383.35	0.3	831959	0.007	7		
007-21-07	007 Zone	Actlabs	A21-20008	Control			0	831960	6.66	6660		
007-21-07	007 Zone	Actlabs	A21-20008	Original	390.8	391.32	0.52	831961	0.012	12		
007-21-07	007 Zone	Actlabs	A21-20008	Original	391.32	391.62	0.3	831962	0.007	7		
007-21-07	007 Zone	Actlabs	A21-20008	Original	391.62	392.19	0.57	831963	0.007	7		
007-21-07	007 Zone	Actlabs	A21-20008	Original	392.19	392.58	0.39	831964	0.012	12		
007-21-07	007 Zone	Actlabs	A21-20008	Original	392.58	393	0.42	831965	0.01	10		
007-21-07	007 Zone	Actlabs	A21-20008	Original	393	394	1	831966	0.01	10		
007-21-07	007 Zone	Actlabs	A21-20008	Original	394	394.7	0.7	831967	0.0025	2.5		
007-21-07	007 Zone	Actlabs	A21-20008	Original	394.7	395.3	0.6	831968	0.009	9		
007-21-07	007 Zone	Actlabs	A21-20008	Original	395.3	396	0.7	831969	0.0025	2.5		

Appendix D – 007 Zone – 2021 Drill Hole Cross Sections



007-21-06
541518mE
642755.3mN
120 Az, -55 Dip

007-21-01
5415087mE
642929.8mN
120 Az, -55 Dip

007-21-02
5415087mE
642929.8mN
105 Az, -55 Dip


007-21-01
EOH 255m

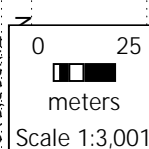
007-21-02
EOH 273m

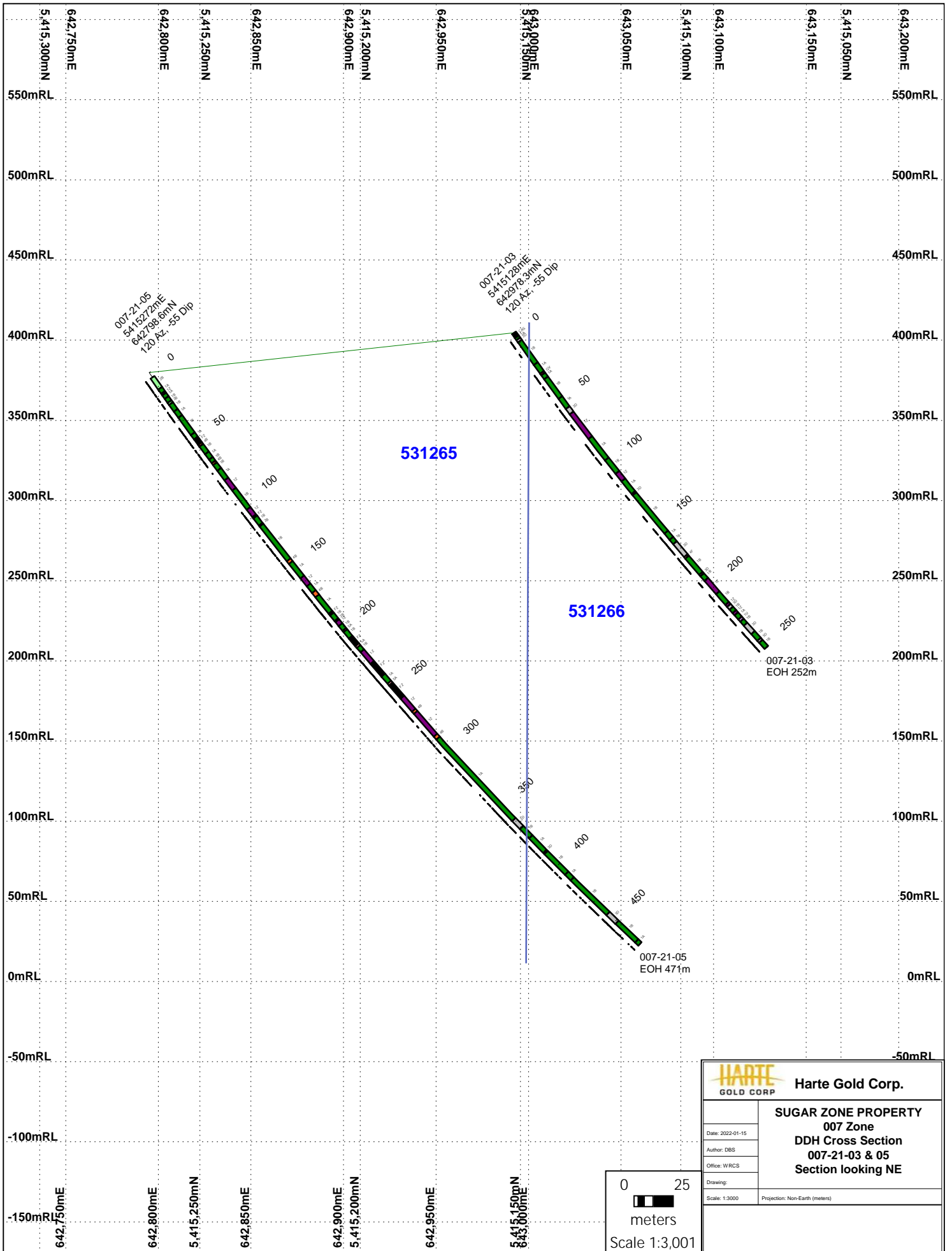
007-21-06
EOH 450m

531265

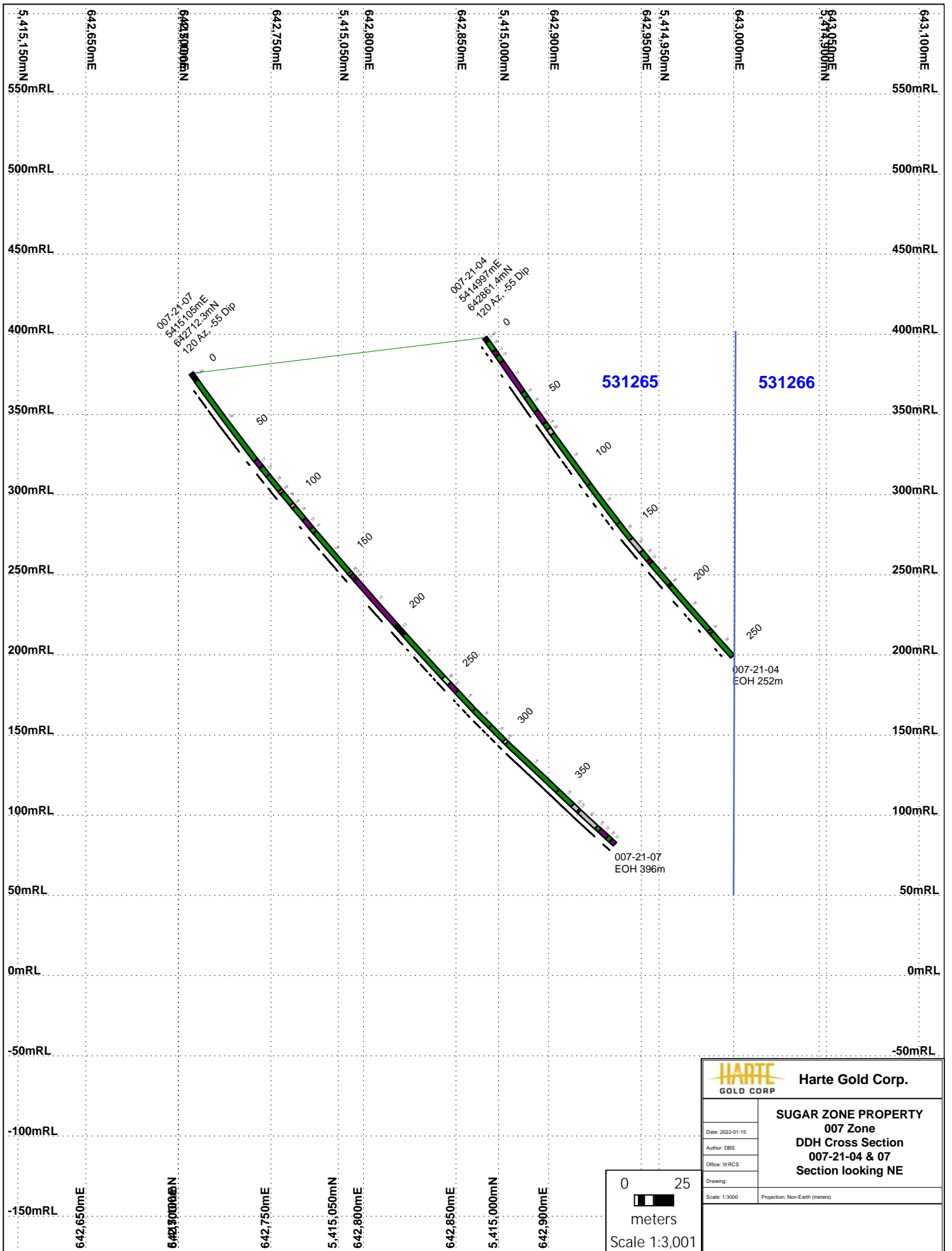
531266

 Harte Gold Corp.	
SUGAR ZONE PROPERTY 007 Zone DDH Cross Section 007-21-01, 02 & 06 Section looking NE	
Date: 2022-01-15	Projection: Non-Earth (meters)
Author: DBS	
Office: WRCS	
Drawing:	
Scale: 1:3000	





HARTE GOLD CORP		Harte Gold Corp.	
		SUGAR ZONE PROPERTY	
		007 Zone	
		DDH Cross Section	
		007-21-03 & 05	
		Section looking NE	
Date: 2022-01-15			
Author: DBS			
Office: WRCS			
Drawing:			
Scale: 1:3000	Projection: Non-Earth (meters)		



007-21-07
 5,415,105mE
 6,427,12.3mN
 120 Az, -55 Dip


007-21-04
 5,414,897mE
 6,428,61.4mN
 120 Az, -55 Dip

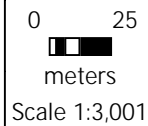
531265

531266

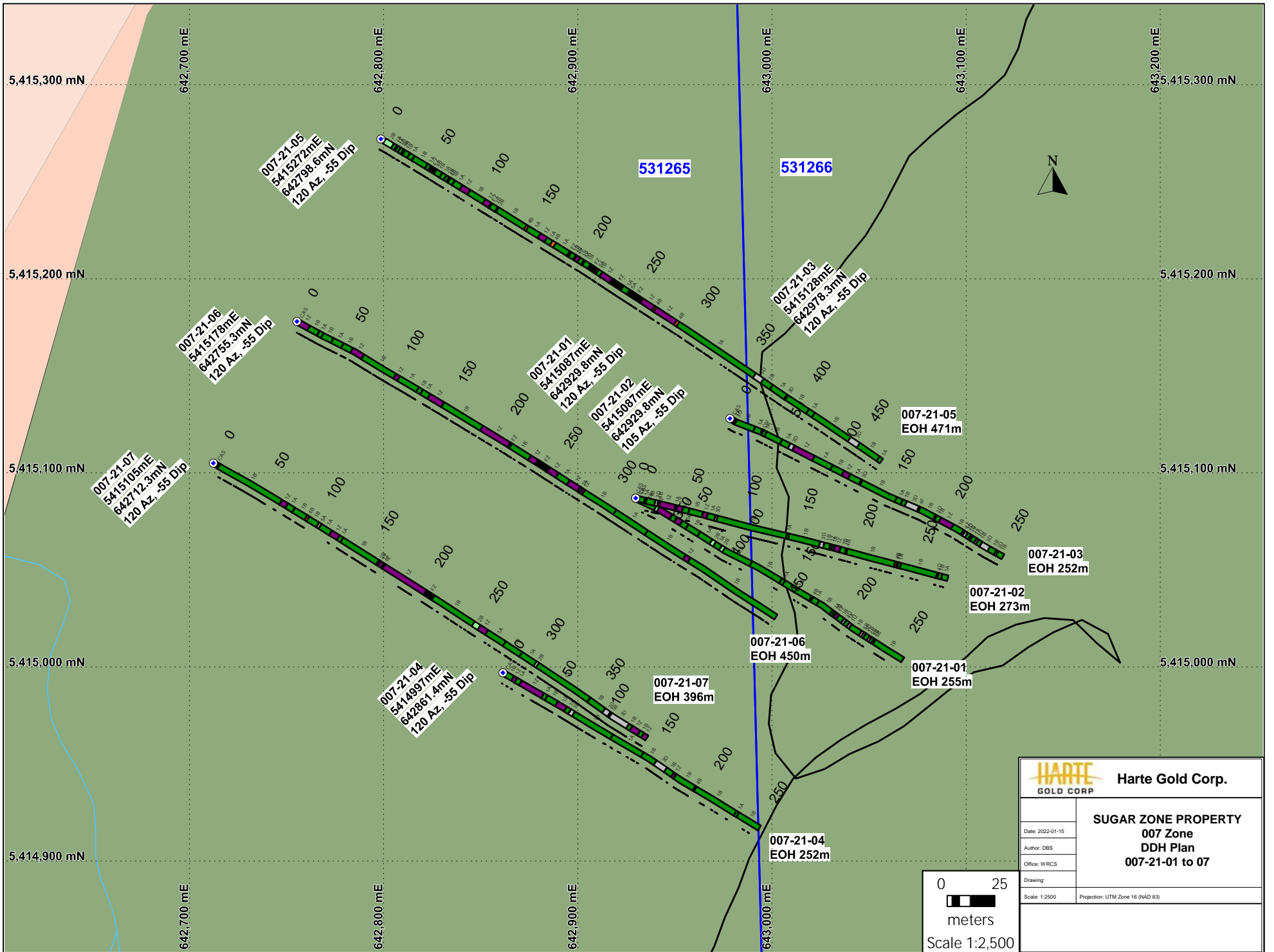
007-21-04
 EOH 252m

007-21-07
 EOH 396m

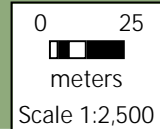
 Harte Gold Corp.	
SUGAR ZONE PROPERTY 007 Zone DDH Cross Section 007-21-04 & 07 Section looking NE	
Date: 2022-01-15	
Author: DBS	
Office: WRCS	
Scale: 1:3000	Projection: Non-Earth (meters)



Appendix E – 007 Zone – 2021 Drill Hole Plans



Harte Gold Corp.	
SUGAR ZONE PROPERTY 007 Zone DDH Plan 007-21-01 to 07	
Date: 2022-01-15	
Author: DBS	
Office: WRCS	
Projection: UTM Zone 16 (NAD 83)	



Appendix F – 007 Zone – 2021 Actlabs Assay Certificates



Report No.: A21-17940
Report Date: 29-Oct-21
Date Submitted: 24-Sep-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

114 Rock samples were submitted for analysis.

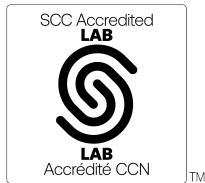
Table with 2 columns: Analytical package(s) requested and Testing Date. Row 1: UT-6, QOP Total/QOP Ultratrace- 4acid Digest (Total Digestion ICPOES/ICPMS), 2021-10-08 15:51:16

REPORT A21-17940

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 266

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

[Handwritten signature]

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

Report No.: A21-17940
Report Date: 29-Oct-21
Date Submitted: 24-Sep-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

114 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-Tbay-Harte Gold	QOP AA-Au (Au - Fire Assay AA)	2021-09-26 12:47:35

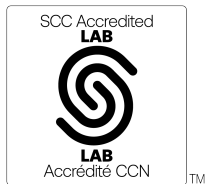
REPORT A21-17940

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 673

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

Results

Activation Laboratories Ltd.

Report: A21-17940

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
828951	< 5																						
828952	5																						
828953	< 5																						
828954	< 5																						
828955	< 5																						
828956	< 5																						
828957	< 5																						
828958	< 5																						
828959	< 5																						
828960	5330																						
828961	< 5																						
828962	7																						
828963	< 5																						
828964	< 5																						
828965	< 5																						
828966	5																						
828967	< 5																						
828968	< 5																						
828969	< 5																						
828970	< 5																						
828971	< 5																						
828972	5																						
828973	< 5																						
828974	< 5																						
828975	< 5																						
828976	< 5																						
828977	< 5																						
828978	< 5																						
828979	6																						
828980	3500																						
828981	6																						
828982	< 5	32.6	1.73	4.23	7.29	0.78	5.55	< 0.1	149	243	1130	5.68	1.4	150	1.7	0.7	0.5	0.06	5.72	31.3	0.91	0.38	< 0.1
828983	< 5	50.8	2.33	0.98	7.36	1.23	1.90	0.2	34	20	264	2.25	2.7	13.2	0.5	0.8	0.2	0.08	3.94	10.0	0.55	0.20	< 0.1
828984	< 5	63.2	1.81	1.52	7.46	1.15	1.89	0.2	41	23	333	2.59	2.9	13.4	0.7	0.9	0.2	0.08	5.35	12.8	0.58	0.30	< 0.1
828985	< 5	59.1	1.55	2.24	8.06	1.40	2.95	0.2	72	51	463	3.38	2.8	24.3	0.9	0.9	0.3	0.14	5.89	16.6	1.01	0.43	0.2
828986	< 5	83.6	1.47	2.64	7.71	2.00	1.41	< 0.1	40	21	267	2.88	2.8	15.0	0.7	0.9	0.2	0.23	7.54	15.4	0.56	0.12	0.5
828987	< 5	31.9	1.90	4.42	8.03	0.90	5.49	< 0.1	151	187	1180	5.67	1.6	168	1.7	1.0	0.5	0.11	6.88	31.8	0.87	0.18	< 0.1
828988	< 5	26.3	2.43	2.29	6.08	1.12	3.01	< 0.1	72	138	641	2.85	2.5	73.2	0.8	1.9	0.3	0.10	8.28	15.5	0.38	0.35	< 0.1
828989	< 5	34.9	2.04	1.77	7.90	1.22	2.80	0.2	52	81	527	2.84	2.5	35.6	0.7	1.1	0.3	0.16	6.88	13.0	0.62	0.39	0.4
828990	< 5	32.1	2.79	0.14	8.34	3.07	1.20	< 0.1	13	17	181	1.28	4.4	1.0	0.6	0.9	0.2	0.10	1.64	1.7	0.62	0.05	0.6
828991	< 5	43.7	2.10	1.44	7.75	1.04	2.75	0.1	48	35	348	3.06	2.7	18.9	0.7	0.8	0.3	0.11	4.36	18.7	0.66	0.24	0.4
828992	15	30.9	1.90	0.49	6.67	1.57	1.49	2.0	39	21	289	2.27	2.9	14.5	0.7	0.7	0.3	1.06	5.36	12.6	0.58	0.92	0.9
828993	19	18.8	1.79	0.32	5.79	1.61	1.15	2.8	35	18	199	1.88	2.4	14.6	0.7	1.0	0.2	1.57	6.85	10.2	0.53	2.65	0.8
828994	10	40.8	1.71	2.93	8.01	1.27	4.68	1.1	146	160	1100	5.98	1.6	109	1.2	0.9	0.4	0.65	7.38	40.9	0.69	1.14	0.7
828995	< 5	20.6	1.35	4.74	7.96	0.51	7.39	0.1	220	224	1460	7.89	0.5	142	1.7	0.4	0.6	0.19	5.02	44.3	0.59	0.31	< 0.1
828996	7	22.5	1.59	3.43	8.60	0.57	8.08	0.2	287	371	2750	11.9	0.5	246	2.5	0.4	0.8	0.68	3.60	70.5	0.73	0.93	1.2
828997	5	39.0	1.36	3.40	7.31	0.45	7.37	0.2	239	264	2180	9.87	0.4	155	2.0	0.4	0.7	0.32	4.03	46.0	0.66	0.37	0.1
828998	< 5	22.4	1.51	3.73	7.84	0.55	7.66	0.2	176	221	1770	8.64	0.3	154	1.8	0.4	0.6	0.27	4.29	48.1	0.63	0.35	< 0.1
828999	42	26.3	1.61	3.04	6.98	0.74	6.09	0.3	145	168	1190	6.21	0.7	105	1.4	0.5	0.5	1.46	6.18	33.9	0.59	8.32	0.3
829000	5420	12.9	1.30	3.21	5.78	0.59	5.32	0.2	151	133	3600	11.2	2.0	103	2.3	0.9	0.8	1.00	2.89	33.0	1.33	0.19	2.3
829001	32	31.1	1.16	4.05	6.99	0.71	6.67	0.4	123	201	1210	7.26	0.3	116	1.5	0.3	0.6	0.64	7.30	39.9	0.61	0.92	< 0.1

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829002	< 5	25.1	2.26	0.73	5.85	0.47	2.12	< 0.1	50	57	279	2.10	1.7	17.7	0.4	0.6	0.1	0.18	4.12	9.7	0.46	0.09	0.9
829003	< 5	40.7	1.32	4.77	8.04	0.72	7.34	0.3	220	307	1440	8.30	0.4	141	1.8	0.4	0.6	0.27	6.22	45.9	0.65	0.86	< 0.1
829004	5	28.2	1.51	4.17	7.86	0.36	7.12	0.2	195	242	1460	9.03	0.4	154	1.9	0.3	0.6	0.18	4.31	49.4	0.67	0.35	0.4
829005	< 5	27.1	0.75	3.77	6.25	0.48	6.79	0.1	152	182	1230	6.69	0.4	116	1.4	0.2	0.5	< 0.05	5.30	37.9	0.42	0.33	< 0.1
829006	< 5	14.9	1.59	4.14	7.48	0.28	7.47	0.1	221	207	1330	7.91	0.4	145	1.7	0.3	0.6	0.09	2.43	45.9	0.69	0.24	< 0.1
829007	< 5																						
829008	< 5																						
829009	5																						
829010	< 5																						
829011	< 5																						
829012	< 5																						
829013	16																						
829014	6																						
829015	5																						
829016	6																						
829017	5																						
829018	5																						
829019	5																						
829020	6560																						
829021	7																						
829022	6																						
829023	< 5																						
829024	< 5																						
829025	< 5																						
829026	5																						
829027	32																						
829028	23																						
829029	6																						
829030	< 5																						
829031	22																						
829032	17																						
829033	25																						
829034	38																						
829035	10																						
829036	< 5																						
829037	< 5																						
829038	< 5																						
829039	< 5																						
829040	3340																						
829041	< 5																						
829042	< 5																						
829043	5																						
829044	5																						
829045	< 5																						
829046	< 5																						
829047	< 5																						
829048	< 5																						
829049	< 5																						
829050	< 5																						
829051	< 5																						
829052	< 5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829053	21																						
829054	< 5																						
829055	< 5																						
829056	< 5																						
829057	< 5																						
829058	< 5																						
829059	< 5																						
829060	5530																						
829061	< 5																						
829062	< 5																						
829063	< 5																						
829064	< 5																						

Results

Activation Laboratories Ltd.

Report: A21-17940

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
828951																							
828952																							
828953																							
828954																							
828955																							
828956																							
828957																							
828958																							
828959																							
828960																							
828961																							
828962																							
828963																							
828964																							
828965																							
828966																							
828967																							
828968																							
828969																							
828970																							
828971																							
828972																							
828973																							
828974																							
828975																							
828976																							
828977																							
828978																							
828979																							
828980																							
828981																							
828982	70.0	12.4	< 0.1	34.3	15.4	554	48	0.2	0.23	< 0.1	< 1	< 0.1	< 0.1	374	13.6	28.8	3.6	14.1	2.7	2.5	0.4	2.7	52.2
828983	68.8	17.1	< 0.1	34.7	5.5	324	97	2.1	0.70	< 0.1	1	< 0.1	0.1	378	14.2	31.2	3.8	13.8	2.6	1.6	0.2	1.1	30.1
828984	90.7	16.4	< 0.1	34.8	6.7	245	102	2.6	1.21	< 0.1	1	< 0.1	0.2	332	15.6	34.9	4.5	15.9	2.6	1.9	0.3	1.5	42.1
828985	82.3	17.5	< 0.1	46.0	9.4	257	105	3.2	1.12	< 0.1	1	< 0.1	0.2	470	22.4	48.4	6.3	23.8	3.8	3.1	0.4	2.0	63.1
828986	16.1	13.9	< 0.1	49.8	6.2	191	105	1.7	1.24	< 0.1	< 1	< 0.1	< 0.1	696	16.0	35.3	4.4	15.5	2.8	2.2	0.3	1.3	116
828987	78.0	15.5	< 0.1	35.1	15.7	531	62	3.0	0.29	< 0.1	< 1	< 0.1	< 0.1	296	13.9	29.5	3.7	14.1	2.5	2.9	0.4	2.7	57.9
828988	47.3	17.8	< 0.1	44.6	7.5	288	72	5.3	0.56	< 0.1	< 1	< 0.1	0.2	221	6.2	15.2	1.9	7.3	1.5	1.6	0.3	1.6	14.3
828989	106	17.4	< 0.1	47.1	8.0	335	97	3.4	1.10	< 0.1	2	< 0.1	0.3	444	14.0	30.5	3.8	14.3	1.9	2.0	0.3	1.4	78.9
828990	42.8	14.5	< 0.1	111	7.1	122	166	5.4	0.38	< 0.1	2	< 0.1	< 0.1	793	35.9	70.6	7.1	21.3	3.2	2.4	0.2	1.3	2.2
828991	52.0	17.3	< 0.1	25.9	7.3	277	100	2.8	2.85	< 0.1	1	< 0.1	0.2	218	14.8	32.3	4.0	15.0	2.8	1.9	0.3	1.3	59.9
828992	404	18.0	< 0.1	44.8	7.1	177	108	3.2	1.84	< 0.1	2	< 0.1	1.0	540	12.7	30.8	3.5	12.8	2.1	1.7	0.2	1.1	79.5
828993	305	12.3	< 0.1	58.8	6.7	167	77	3.4	1.54	< 0.1	1	< 0.1	2.5	438	14.7	32.5	3.5	13.4	2.1	1.7	0.2	1.4	98.7
828994	249	19.4	< 0.1	51.1	12.3	187	52	1.6	1.85	< 0.1	2	< 0.1	0.5	296	9.0	21.3	2.8	11.3	2.6	2.4	0.4	2.2	116
828995	94.2	15.7	< 0.1	22.3	15.2	160	15	1.1	0.38	< 0.1	< 1	< 0.1	< 0.1	56	2.4	6.6	1.1	5.2	1.7	2.2	0.4	2.8	41.8
828996	134	18.4	< 0.1	13.8	21.1	159	12	1.5	4.06	< 0.1	< 1	< 0.1	< 0.1	85	3.1	8.3	1.3	5.2	1.9	2.9	0.5	3.7	180
828997	88.5	15.2	0.3	13.9	18.5	149	10	0.4	0.21	< 0.1	< 1	< 0.1	< 0.1	65	2.7	7.3	1.2	5.7	1.6	2.4	0.4	3.1	134
828998	91.3	16.5	< 0.1	17.4	16.7	150	9	0.4	0.13	< 0.1	< 1	< 0.1	0.1	82	2.6	6.7	1.1	5.3	1.6	2.1	0.4	2.8	93.2
828999	73.9	14.0	< 0.1	35.3	13.1	168	21	0.5	0.30	< 0.1	< 1	< 0.1	2.4	153	5.1	11.7	1.6	7.2	1.7	2.0	0.4	2.3	106
829000	115	14.4	3000	19.7	21.7	239	74	7.9	2.82	< 0.1	1	6.8	< 0.1	150	17.7	29.1	4.7	19.1	4.8	4.5	0.7	4.0	160
829001	88.4	15.1	< 0.1	35.7	14.7	152	8	0.1	0.11	< 0.1	< 1	< 0.1	0.4	123	3.2	8.1	1.2	5.5	1.8	2.0	0.4	2.5	85.2

Results

Activation Laboratories Ltd.

Report: A21-17940

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829002	36.9	14.6	< 0.1	23.2	3.9	298	68	1.3	0.27	< 0.1	< 1	< 0.1	< 0.1	176	9.3	20.2	2.5	8.2	1.4	1.3	0.1	0.8	76.5
829003	99.2	15.1	< 0.1	30.7	16.8	167	8	0.3	0.09	< 0.1	< 1	< 0.1	0.1	136	2.7	7.1	1.1	5.8	1.5	2.3	0.4	3.0	119
829004	94.3	16.4	< 0.1	11.8	17.4	208	10	0.4	0.09	< 0.1	< 1	< 0.1	< 0.1	115	3.2	8.2	1.2	6.2	2.1	2.3	0.4	3.2	259
829005	71.8	12.2	< 0.1	30.2	12.1	137	9	0.2	0.69	< 0.1	< 1	< 0.1	< 0.1	138	2.1	5.3	0.8	4.1	1.1	1.5	0.3	2.2	36.2
829006	85.9	16.2	< 0.1	5.3	15.7	157	8	0.8	2.25	< 0.1	< 1	< 0.1	< 0.1	68	3.1	8.1	1.2	6.0	2.0	2.3	0.4	2.8	103
829007																							
829008																							
829009																							
829010																							
829011																							
829012																							
829013																							
829014																							
829015																							
829016																							
829017																							
829018																							
829019																							
829020																							
829021																							
829022																							
829023																							
829024																							
829025																							
829026																							
829027																							
829028																							
829029																							
829030																							
829031																							
829032																							
829033																							
829034																							
829035																							
829036																							
829037																							
829038																							
829039																							
829040																							
829041																							
829042																							
829043																							
829044																							
829045																							
829046																							
829047																							
829048																							
829049																							
829050																							
829051																							
829052																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829053																							
829054																							
829055																							
829056																							
829057																							
829058																							
829059																							
829060																							
829061																							
829062																							
829063																							
829064																							

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
828951															
828952															
828953															
828954															
828955															
828956															
828957															
828958															
828959															
828960															
828961															
828962															
828963															
828964															
828965															
828966															
828967															
828968															
828969															
828970															
828971															
828972															
828973															
828974															
828975															
828976															
828977															
828978															
828979															
828980															
828981															
828982	0.1	0.3	1.8	0.3	< 0.1	< 0.1	< 0.001	0.24	4.2	21	1.5	0.4	0.305	0.080	0.10
828983	< 0.1	< 0.1	0.5	< 0.1	0.1	0.3	< 0.001	0.19	5.6	5	2.5	0.7	0.190	0.046	0.09
828984	< 0.1	< 0.1	0.6	0.1	0.2	0.6	0.001	0.23	4.9	6	2.4	0.6	0.216	0.049	0.19
828985	0.1	0.1	0.8	0.1	0.2	0.7	< 0.001	0.29	5.3	9	3.0	0.7	0.293	0.071	0.28
828986	< 0.1	< 0.1	0.6	< 0.1	< 0.1	0.4	< 0.001	0.27	3.1	6	2.6	0.6	0.198	0.043	0.03
828987	0.3	0.3	1.7	0.3	0.1	0.2	< 0.001	0.30	4.2	18	1.6	0.5	0.352	0.095	0.06
828988	< 0.1	0.1	1.0	0.2	0.7	0.6	< 0.001	0.43	15.2	9	1.6	3.2	0.193	0.046	0.03
828989	< 0.1	0.1	0.8	0.1	0.3	0.8	< 0.001	0.32	8.9	7	2.5	1.1	0.220	0.054	0.23
828990	< 0.1	< 0.1	0.6	< 0.1	0.1	< 0.1	< 0.001	0.69	15.9	2	12.3	0.9	0.124	0.020	< 0.01
828991	< 0.1	< 0.1	0.7	< 0.1	0.2	0.5	0.004	0.19	4.3	7	2.3	0.6	0.228	0.051	0.25
828992	< 0.1	0.1	0.7	0.1	0.3	1.6	0.001	0.40	13.8	6	2.4	0.8	0.182	0.045	0.80
828993	< 0.1	0.1	0.7	0.1	0.3	2.3	0.002	0.43	31.3	5	3.0	1.2	0.166	0.033	0.88
828994	0.3	0.2	1.3	0.2	< 0.1	0.7	0.002	0.44	9.5	23	1.3	0.4	0.343	0.031	0.82
828995	0.3	0.3	1.8	0.2	< 0.1	0.2	0.001	0.20	4.0	34	0.2	< 0.1	0.400	0.025	0.20
828996	0.6	0.3	2.3	0.3	< 0.1	< 0.1	0.002	0.18	4.3	40	0.3	< 0.1	0.412	0.025	0.86
828997	0.4	0.3	2.1	0.3	< 0.1	< 0.1	0.001	0.14	4.2	39	0.3	< 0.1	0.372	0.024	0.67
828998	0.4	0.3	1.8	0.3	< 0.1	< 0.1	0.001	0.16	4.9	35	0.3	< 0.1	0.294	0.025	0.18
828999	0.3	0.2	1.5	0.2	< 0.1	< 0.1	0.001	0.25	5.9	26	0.7	0.2	0.281	0.027	0.50
829000	0.4	0.3	1.9	0.3	0.3	2.7	0.003	0.14	10.1	18	3.5	1.4	0.518	0.213	2.95
829001	0.2	0.2	1.7	0.3	< 0.1	< 0.1	0.001	0.23	5.2	31	0.4	0.1	0.162	0.023	0.21

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
829002	< 0.1	< 0.1	0.4	< 0.1	< 0.1	0.3	< 0.001	0.14	6.5	5	1.6	0.5	0.169	0.033	0.15
829003	0.1	0.3	1.9	0.3	< 0.1	0.1	0.001	0.19	5.3	35	0.3	< 0.1	0.314	0.025	0.32
829004	0.3	0.3	1.9	0.3	< 0.1	< 0.1	< 0.001	0.10	2.3	35	0.3	0.1	0.302	0.027	0.39
829005	0.3	0.2	1.4	0.2	< 0.1	< 0.1	0.002	0.17	1.6	29	0.2	< 0.1	0.267	0.026	0.05
829006	0.4	0.3	1.8	0.3	< 0.1	0.3	0.005	0.05	2.2	34	0.3	< 0.1	0.396	0.026	0.10
829007															
829008															
829009															
829010															
829011															
829012															
829013															
829014															
829015															
829016															
829017															
829018															
829019															
829020															
829021															
829022															
829023															
829024															
829025															
829026															
829027															
829028															
829029															
829030															
829031															
829032															
829033															
829034															
829035															
829036															
829037															
829038															
829039															
829040															
829041															
829042															
829043															
829044															
829045															
829046															
829047															
829048															
829049															
829050															
829051															
829052															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
829053															
829054															
829055															
829056															
829057															
829058															
829059															
829060															
829061															
829062															
829063															
829064															

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Oreas 72a (4 Acid) Meas										152		9.89		> 5000						157			
Oreas 72a (4 Acid) Cert										228		9.63		6930.000						157			
Oreas 72a (4 Acid) Meas										166		9.59		> 5000						152			
Oreas 72a (4 Acid) Cert										228		9.63		6930.000						157			
OREAS 101b (4 Acid) Meas				1.28		1.98			68		861	9.46		8.2	13.4		4.5			43.6	6.55		
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7		8.2	15		5.2			45	8.1		
OREAS 98 (4 Acid) Meas																		44.0		124		90.8	159
OREAS 98 (4 Acid) Cert																		45.1		121		97.2	158
OREAS 98 (4 Acid) Meas																		46.9		131		92.8	183
OREAS 98 (4 Acid) Cert																		45.1		121		97.2	158
OREAS 13b (4-Acid) Meas																							
OREAS 13b (4-Acid) Cert																							
OREAS 904 (4 Acid) Meas																							
OREAS 904 (4 Acid) Cert																							
OREAS 45d (4-Acid) Meas																							
OREAS 45d (4-Acid) Cert																							
OREAS 96 (4 Acid) Meas																		10.4		44.7		26.7	39.8
OREAS 96 (4 Acid) Cert																		11.5		49.9		26.3	40.7
OREAS 96 (4 Acid) Meas																		10.4		47.2		27.4	40.7
OREAS 96 (4 Acid) Cert																		11.5		49.9		26.3	40.7
OREAS 96 (4 Acid) Meas																		10.4		47.2		27.3	40.5
OREAS 96 (4 Acid) Cert																		11.5		49.9		26.3	40.7
OREAS 923 (4 Acid) Meas		29.7	0.33	1.77	7.45	2.05	0.48	0.4	95	84	936	6.50	3.7	35.8	2.8	2.5	1.0	1.82	6.46	21.9	1.30	23.3	5.7
OREAS 923 (4 Acid) Cert		31.4	0.324	1.69	7.29	2.51	0.473	0.420	91.0	71.0	950	6.43	3.42	35.8	2.86	2.42	0.960	1.60	6.70	23.1	1.37	21.4	6.54
OREAS 621 (4 Acid) Meas																							
OREAS 621 (4 Acid) Cert																							
Oreas 77b (4 Acid) Meas																							
Oreas 77b (4 Acid) Cert																							
OREAS 228b (Fire Assay) Meas	8790																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8820																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8260																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8710																						
OREAS 228b (Fire Assay) Cert	8570																						
Oreas E1336 (Fire Assay) Meas	514																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	504																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	492																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	510																						
Oreas E1336 (Fire Assay) Cert	510																						
OREAS 681 (4 Acid) Meas		13.6	1.67	5.31	8.06	1.40	6.06		259	1410	1440	8.01	2.0	511	1.9	1.4	0.6	0.18	4.19	52.7	1.31	0.10	
OREAS 681 (4 Acid) Cert		13.0	1.61	5.19	7.91	1.35	5.98		253	1640	1310	7.47	1.70	503	1.97	1.41	0.690	0.118	4.02	51.0	1.37	0.0980	
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
Oreas 521 (4 Acid) Meas																							
Oreas 521 (4 Acid) Cert																							
OREAS 70b (4 Acid) Meas																							
OREAS 70b (4 Acid) Cert																							
828961 Orig	< 5																						
828961 Dup	< 5																						
828970 Orig	< 5																						
828970 Dup	< 5																						
828981 Orig	6																						
828981 Dup	5																						
828986 Orig	< 5	83.6	1.55	2.55	7.72	2.04	1.50	< 0.1	40	24	286	2.91	2.7	15.1	0.7	0.8	0.2	0.15	7.64	15.1	0.57	0.08	0.8

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
828986 Dup	< 5	83.7	1.39	2.72	7.70	1.96	1.32	< 0.1	39	19	247	2.85	2.9	14.9	0.6	0.9	0.2	0.32	7.44	15.7	0.54	0.16	0.3
828996 Orig	7	22.2	1.65	3.40	8.61	0.56	8.24	0.2	298	382	2770	12.1	0.5	253	2.5	0.4	0.8	0.69	3.60	72.8	0.73	0.95	1.2
828996 Dup	7	22.9	1.54	3.46	8.59	0.57	7.92	0.2	277	361	2730	11.7	0.5	240	2.4	0.4	0.8	0.66	3.59	68.2	0.73	0.91	1.1
828999 Orig	42	26.3	1.61	3.04	6.98	0.74	6.09	0.3	145	168	1190	6.21	0.7	105	1.4	0.5	0.5	1.46	6.18	33.9	0.59	8.32	0.3
828999 Split PREP DUP	44	25.4	1.51	2.90	6.65	0.70	5.76	0.3	160	171	1150	6.02	0.7	99.0	1.3	0.5	0.4	1.51	5.93	33.7	0.54	4.45	0.3
828999 Split PREP DUP	44																						
829005 Orig	< 5																						
829005 Dup	< 5																						
829025 Orig	< 5																						
829025 Dup	< 5																						
829035 Orig	10																						
829035 Dup	10																						
829045 Orig	5																						
829045 Dup	< 5																						
829049 Orig	< 5																						
829049 Split PREP DUP	< 5																						
829056 Orig	< 5																						
829056 Dup	< 5																						
829064 Orig	< 5																						
829064 Split PREP DUP	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	4	3	2	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.8
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	4	3	1	< 0.01	< 0.1	< 0.5	< 0.1	0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.9
Method Blank																							
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	7	6	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	
Oreas 72a (4 Acid) Meas			6.0																				340	
Oreas 72a (4 Acid) Cert			14.7																					316
Oreas 72a (4 Acid) Meas			5.0																					325
Oreas 72a (4 Acid) Cert			14.7																					316
OREAS 101b (4 Acid) Meas					122				16.7						715	1250	114	354	43.5	33.0	4.2	23.5	414	
OREAS 101b (4 Acid) Cert					133				20.1						754	1325	127	388	48	40	5.4	27	412	
OREAS 98 (4 Acid) Meas	1410										197	5.8											> 10000	
OREAS 98 (4 Acid) Cert	1360										206	20.1											14800 0.0	
OREAS 98 (4 Acid) Meas	1450										> 200	8.5											> 10000	
OREAS 98 (4 Acid) Cert	1360										206	20.1											14800 0.0	
OREAS 13b (4-Acid) Meas																								
OREAS 13b (4-Acid) Cert																								
OREAS 904 (4 Acid) Meas																								
OREAS 904 (4 Acid) Cert																								
OREAS 45d (4-Acid) Meas																								
OREAS 45d (4-Acid) Cert																								
OREAS 96 (4 Acid) Meas	398										60	2.9											> 10000	
OREAS 96 (4 Acid) Cert	457										65.6	5.09											39300	
OREAS 96 (4 Acid) Meas	404										59	3.8											> 10000	
OREAS 96 (4 Acid) Cert	457										65.6	5.09											39300	
OREAS 96 (4 Acid) Meas	449										63	4.0											> 10000	
OREAS 96 (4 Acid) Cert	457										65.6	5.09											39300	
OREAS 923 (4 Acid) Meas	341	20.1	5.9	148	25.6	43.3	128	14.2	0.90	0.5	13	1.3		386	41.1	88.1	9.5	34.0	6.3	5.8	0.9	4.5	4370	
OREAS 923 (4 Acid) Cert	345	20.3	7.61	166	26.4	43.0	116	14.1	0.930	0.520	13.3	1.29		434	42.2	83.0	9.58	35.4	6.64	5.73	0.850	5.05	4230	
OREAS 621 (4 Acid) Meas																								
OREAS 621 (4 Acid) Cert																								
Oreas 77b (4 Acid) Meas																								
Oreas 77b (4 Acid) Cert																								
OREAS 228b (Fire Assay) Meas																								

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
OREAS 681 (4 Acid) Meas	91.6	15.0		82.4	17.9	507	73	5.1	1.37	< 0.1	2	0.2		458	20.1	40.4	5.2	20.7	4.8	4.3	0.6	3.5	282
OREAS 681 (4 Acid) Cert	88.0	17.6		80.0	17.5	478	58.0	6.17	1.38	0.0420	1.89	0.240		442	18.8	40.6	5.32	21.9	4.82	4.06	0.580	3.40	264
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
Oreas 521 (4 Acid) Meas																							
Oreas 521 (4 Acid) Cert																							
OREAS 70b (4 Acid) Meas																							
OREAS 70b (4 Acid) Cert																							
828961 Orig																							
828961 Dup																							
828970 Orig																							
828970 Dup																							
828981 Orig																							
828981 Dup																							
828986 Orig	14.2	14.0	< 0.1	56.0	6.5	203	112	1.0	1.14	< 0.1	< 1	< 0.1	< 0.1	710	16.5	36.0	4.4	14.8	2.8	2.3	0.3	1.4	123

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
828986 Dup	18.0	13.7	< 0.1	43.6	5.9	178	98	2.4	1.34	< 0.1	1	< 0.1	0.2	681	15.6	34.5	4.4	16.1	2.9	2.0	0.3	1.2	110
828996 Orig	130	18.0	< 0.1	12.6	21.0	164	12	2.5	5.89	< 0.1	< 1	< 0.1	1.0	87	2.9	8.0	1.3	4.5	2.0	3.0	0.5	3.7	176
828996 Dup	138	18.8	< 0.1	15.0	21.2	154	12	0.6	2.23	< 0.1	< 1	< 0.1	< 0.1	84	3.3	8.5	1.3	5.9	1.8	2.8	0.5	3.6	185
828999 Orig	73.9	14.0	< 0.1	35.3	13.1	168	21	0.5	0.30	< 0.1	< 1	< 0.1	2.4	153	5.1	11.7	1.6	7.2	1.7	2.0	0.4	2.3	106
828999 Split PREP DUP	69.4	14.0	1.3	31.5	11.9	148	21	0.6	0.39	< 0.1	< 1	< 0.1	2.6	139	4.6	10.7	1.5	6.7	1.7	1.8	0.3	2.0	107
828999 Split PREP DUP																							
829005 Orig																							
829005 Dup																							
829025 Orig																							
829025 Dup																							
829035 Orig																							
829035 Dup																							
829045 Orig																							
829045 Dup																							
829049 Orig																							
829049 Split PREP DUP																							
829056 Orig																							
829056 Dup																							
829064 Orig																							
829064 Split PREP DUP																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	0.7	0.7	< 0.1	< 0.2	< 0.1	< 0.2	1	< 0.1	0.16	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	1.0
Method Blank	1.4	0.8	< 0.1	< 0.2	< 0.1	< 0.2	5	< 0.1	0.18	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	1.2
Method Blank																							
Method Blank	< 0.2	0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.7

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Oreas 72a (4 Acid) Meas															1.65
Oreas 72a (4 Acid) Cert															1.74
Oreas 72a (4 Acid) Meas															
Oreas 72a (4 Acid) Cert															
OREAS 101b (4 Acid) Meas		1.9	12.7	1.7					22.9		37.4	387	0.320	0.111	
OREAS 101b (4 Acid) Cert		2.08	13.9	1.96					23		36.4	387	0.35		
OREAS 98 (4 Acid) Meas									316						16.4
OREAS 98 (4 Acid) Cert									345						15.5
OREAS 98 (4 Acid) Meas									329						
OREAS 98 (4 Acid) Cert									345						
OREAS 13b (4-Acid) Meas															1.18
OREAS 13b (4-Acid) Cert															1.2
OREAS 904 (4 Acid) Meas										11				0.106	0.06
OREAS 904 (4 Acid) Cert										11.2				0.0980	0.0630
OREAS 45d (4-Acid) Meas										51			0.355	0.037	0.05
OREAS 45d (4-Acid) Cert										49.30			0.773	0.042	0.049
OREAS 96 (4 Acid) Meas									92.9						4.47
OREAS 96 (4 Acid) Cert									101						4.19
OREAS 96 (4 Acid) Meas									94.4						4.34
OREAS 96 (4 Acid) Cert									101						4.19
OREAS 96 (4 Acid) Meas									98.9						
OREAS 96 (4 Acid) Cert									101						
OREAS 923 (4 Acid) Meas		0.4	2.6	0.4	1.1	5.0		0.87	87.8	13	17.8	3.2	0.416	0.067	0.71
OREAS 923 (4 Acid) Cert		0.410	2.57	0.390	1.11	4.85		0.860	83.0	13.1	16.5	3.06	0.405	0.0630	0.691
OREAS 621 (4 Acid) Meas										5			0.185	0.036	4.68
OREAS 621 (4 Acid) Cert										6.24			0.149	0.0359	4.48
Oreas 77b (4 Acid) Meas										3			0.0567		
Oreas 77b (4 Acid) Cert										3.51			0.0640		
OREAS 228b (Fire Assay) Meas															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
828986 Dup	< 0.1	< 0.1	0.6	< 0.1	0.2	0.6	0.002	0.26	3.2	6	2.5	0.6	0.200	0.043	0.03
828996 Orig	0.8	0.3	2.2	0.3	0.2	1.0	0.001	0.19	4.4	41	0.3	< 0.1	0.455	0.026	0.85
828996 Dup	0.3	0.3	2.3	0.3	< 0.1	< 0.1	0.002	0.18	4.3	40	0.3	< 0.1	0.370	0.025	0.86
828999 Orig	0.3	0.2	1.5	0.2	< 0.1	< 0.1	0.001	0.25	5.9	26	0.7	0.2	0.281	0.027	0.50
828999 Split PREP DUP	0.2	0.2	1.3	0.2	< 0.1	0.2	0.001	0.24	5.1	26	0.7	0.2	0.323	0.027	0.49
828999 Split PREP DUP															
829005 Orig															
829005 Dup															
829025 Orig															
829025 Dup															
829035 Orig															
829035 Dup															
829045 Orig															
829045 Dup															
829049 Orig															
829049 Split PREP DUP															
829056 Orig															
829056 Dup															
829064 Orig															
829064 Split PREP DUP															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank										< 1				< 0.001	< 0.01
Method Blank													0.0005	< 0.001	< 0.01
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.002	< 0.05	< 0.5	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01
Method Blank														< 0.001	< 0.01
Method Blank										< 1			0.0005	< 0.001	< 0.01
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01



Report No.: A21-18047
Report Date: 05-Nov-21
Date Submitted: 27-Sep-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

151 Rock samples were submitted for analysis.

Table with 2 columns: Analytical package(s) requested, Testing Date. Row 1: 1A2-Tbay-Harte Gold, QOP AA-Au (Au - Fire Assay AA), 2021-09-28 18:19:43

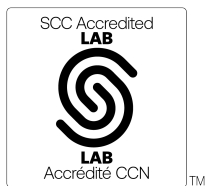
REPORT A21-18047

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 673

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Handwritten signature of Emmanuel Eseme

Emmanuel Eseme, Ph.D.
Quality Control Coordinator

Report No.: A21-18047
Report Date: 05-Nov-21
Date Submitted: 27-Sep-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

151 Rock samples were submitted for analysis.

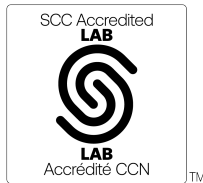
Table with 2 columns: Analytical package(s) requested and Testing Date. Row 1: UT-6, QOP Total/QOP Ultratrace- 4acid Digest (Total Digestion ICPOES/ICPMS), 2021-10-08 09:07:20

REPORT A21-18047

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 266

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Handwritten signature of Emmanuel Esemé

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

Results

Activation Laboratories Ltd.

Report: A21-18047

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829065	8	19.5	1.17	5.75	6.82	0.24	7.88	0.3	175	344	1390	7.49	0.3	154	1.6	0.1	0.5	0.09	1.73	49.9	0.51	< 0.02	< 0.1
829066	8	6.9	1.33	5.08	6.76	0.12	7.66	0.3	172	297	1380	7.41	0.3	171	1.5	< 0.1	0.5	0.11	1.09	49.5	0.45	0.05	< 0.1
829067	< 5	9.0	1.29	5.47	7.21	0.26	8.67	0.8	232	286	1930	8.45	0.4	193	1.6	< 0.1	0.6	0.08	1.91	54.4	0.56	0.11	< 0.1
829068	< 5	10.5	1.28	4.51	6.89	0.55	8.67	< 0.1	168	164	1410	7.05	0.3	144	1.5	< 0.1	0.5	< 0.05	1.89	46.0	0.56	0.10	< 0.1
829069	< 5	31.2	> 3.00	1.55	8.95	1.79	3.86	< 0.1	121	16	925	5.33	3.6	11.7	1.9	1.6	0.7	0.16	4.63	18.2	1.54	0.13	< 0.1
829070	< 5	29.5	2.93	0.13	7.93	3.03	1.18	< 0.1	13	15	173	1.25	4.5	2.1	0.5	1.0	0.2	0.16	1.54	1.7	0.60	0.04	< 0.1
829071	5	18.7	0.67	4.70	7.25	0.85	7.53	0.1	210	374	1860	10.5	0.5	220	1.5	< 0.1	0.5	0.11	2.81	57.2	0.53	0.13	< 0.1
829072	5	23.9	0.19	1.04	7.02	2.35	2.10	< 0.1	34	18	389	3.37	2.3	18.2	0.6	0.5	0.2	0.15	4.33	15.5	0.58	0.31	< 0.1
829073	< 5	18.5	0.72	0.87	7.55	2.33	2.23	< 0.1	40	16	240	3.13	2.4	20.6	0.7	0.4	0.3	0.14	3.31	33.3	0.58	0.29	0.8
829074	19	14.9	1.27	1.89	8.19	0.82	5.11	0.2	108	73	614	5.51	1.6	72.8	1.3	0.3	0.5	0.39	4.50	35.6	0.63	0.39	0.1
829075	< 5	16.7	1.86	5.08	8.90	0.49	7.52	< 0.1	229	180	1340	8.66	0.8	188	1.9	< 0.1	0.7	0.07	2.66	48.7	0.67	0.19	< 0.1
829076	< 5	23.3	> 3.00	0.86	9.36	1.17	2.56	< 0.1	56	13	321	2.45	3.0	13.0	0.5	0.8	0.2	< 0.05	5.44	8.5	0.75	0.03	< 0.1
829077	< 5	29.2	> 3.00	1.42	9.21	0.77	3.28	< 0.1	69	36	426	3.13	2.6	37.4	0.7	0.7	0.2	0.06	4.77	13.4	0.69	0.07	< 0.1
829078	< 5	17.6	1.80	5.17	9.17	0.36	7.45	< 0.1	205	184	1290	7.89	0.6	224	1.5	< 0.1	0.5	0.07	2.63	48.3	0.60	0.19	< 0.1
829079	< 5	17.4	1.72	5.25	> 10.0	0.16	7.74	< 0.1	194	196	1190	7.72	0.5	252	1.6	< 0.1	0.6	0.07	1.98	49.3	0.59	0.11	< 0.1
829080	6680	26.3	1.52	4.38	5.88	0.65	4.47	0.2	156	450	879	5.46	1.5	193	1.4	0.3	0.5	1.45	0.54	35.7	0.52	0.55	< 0.1
829081	< 5	17.4	1.64	4.02	> 10.0	0.07	8.21	< 0.1	190	177	1190	7.27	0.5	100	1.6	< 0.1	0.6	0.06	0.33	38.9	0.59	0.08	< 0.1
829082	< 5	16.7	1.41	3.30	8.37	0.07	6.73	< 0.1	108	167	940	6.21	0.3	80.2	1.5	< 0.1	0.5	< 0.05	0.69	33.0	0.52	0.15	< 0.1
829083	< 5	15.7	1.81	3.93	9.38	0.07	8.22	0.1	204	169	1210	7.25	0.6	100	1.7	< 0.1	0.6	0.07	0.32	38.8	0.62	0.08	< 0.1
829084	< 5	36.1	2.26	5.13	7.88	0.35	6.46	< 0.1	257	162	1520	9.10	0.9	103	2.1	< 0.1	0.8	0.09	3.50	47.4	0.76	0.29	< 0.1
829085	< 5	33.2	1.51	4.82	6.82	0.67	5.52	< 0.1	176	179	1380	8.51	0.6	127	2.1	0.5	0.7	0.08	7.44	44.3	0.79	0.29	< 0.1
829086	< 5	36.7	1.69	6.00	6.17	0.69	5.91	0.3	190	369	1300	8.26	1.9	398	2.1	0.6	0.8	0.20	8.74	51.3	1.57	0.49	< 0.1
829087	< 5	35.7	1.75	6.10	6.38	0.85	6.17	0.1	144	403	1170	6.80	2.3	474	1.6	0.5	0.6	0.17	10.7	50.8	1.98	1.49	< 0.1
829088	< 5	13.4	1.76	4.16	8.36	0.29	8.08	0.1	149	159	1520	8.67	0.3	149	2.3	0.2	0.8	0.08	1.35	47.1	0.84	0.88	< 0.1
829089	< 5	47.4	1.55	5.25	9.34	0.61	7.17	0.1	190	241	1370	8.50	0.7	206	1.9	< 0.1	0.7	0.14	6.62	48.7	0.98	1.01	< 0.1
829090	< 5	30.6	2.84	0.13	7.84	2.50	1.09	< 0.1	12	5	172	1.23	4.6	2.6	0.6	0.8	0.2	0.15	1.45	1.7	0.60	0.05	< 0.1
829091	< 5	44.1	1.28	4.59	8.53	0.38	6.78	0.1	186	283	1210	7.52	0.5	184	1.5	< 0.1	0.6	0.11	3.62	42.8	0.60	1.11	< 0.1
829092	< 5	41.3	1.53	5.17	9.63	0.23	7.77	< 0.1	188	340	1240	7.79	0.5	227	1.4	< 0.1	0.5	0.13	2.14	47.5	0.54	0.38	< 0.1
829093	< 5	24.6	1.83	4.24	7.36	0.25	6.55	< 0.1	312	167	1490	9.97	0.9	71.7	2.7	< 0.1	0.9	0.16	1.84	46.1	0.89	0.32	< 0.1
829094	< 5	18.0	1.75	3.81	7.03	0.30	6.91	< 0.1	297	177	1390	8.65	1.0	68.8	2.8	< 0.1	0.9	0.13	1.97	41.2	1.12	0.54	< 0.1
829095	< 5	20.5	1.21	4.19	6.66	0.20	7.68	0.1	161	179	1540	9.56	0.2	70.6	2.7	0.3	0.9	0.08	1.28	43.7	1.04	0.47	0.3
829096	< 5	22.2	1.45	4.31	6.20	0.25	6.93	< 0.1	231	169	1470	9.05	0.6	80.3	2.3	0.3	0.8	0.11	1.84	43.4	0.78	0.52	0.4
829097	< 5	43.7	1.85	4.25	7.21	0.82	5.68	< 0.1	171	179	1220	6.34	1.6	169	1.8	0.9	0.5	0.14	4.93	32.6	0.91	0.28	0.1
829098	< 5	55.1	1.77	1.64	6.93	1.54	2.13	< 0.1	47	16	345	2.83	2.4	13.8	0.6	0.8	0.2	0.13	3.81	15.1	0.61	0.33	0.9
829099	< 5	36.5	1.64	1.19	6.93	1.98	2.46	1.3	50	22	456	2.59	2.7	17.8	0.6	0.8	0.2	0.26	3.08	14.5	0.62	0.59	1.0
829100	5510	13.7	1.15	3.16	4.99	0.55	5.06	0.2	169	143	3800	11.9	2.0	107	2.2	0.8	0.8	1.10	2.71	35.3	1.44	0.18	3.2
829101	< 5	24.8	2.64	0.41	6.44	1.58	1.61	1.2	44	20	338	2.40	2.6	15.8	0.7	0.9	0.2	0.32	2.55	12.7	0.59	1.09	1.0
829102	< 5	36.1	0.99	4.77	7.47	1.06	6.61	0.4	223	225	1280	7.60	0.5	156	1.4	0.5	0.5	0.32	7.90	44.1	0.60	0.50	0.6
829103	< 5	45.6	1.08	5.03	7.55	1.12	7.25	0.2	229	327	1380	8.04	0.3	171	1.6	0.4	0.6	0.47	8.52	46.0	0.61	0.51	0.7
829104	87	16.0	0.37	2.56	4.31	1.01	4.59	0.8	135	145	933	4.98	0.2	99.8	0.8	0.5	0.3	3.36	3.35	27.5	0.35	8.39	1.0
829105	< 5	18.6	1.22	4.49	7.43	0.45	7.84	0.3	258	192	1620	8.91	0.4	159	1.9	0.3	0.7	0.45	3.74	50.0	0.66	0.47	0.6
829106	< 5	21.1	1.76	4.72	7.39	0.57	6.72	0.2	236	200	1240	7.54	0.6	153	1.8	0.4	0.7	0.31	3.75	45.4	0.83	0.13	0.5
829107	< 5	42.4	2.18	4.23	7.82	1.19	5.42	0.1	163	168	864	5.61	2.5	73.4	1.6	1.1	0.5	0.19	11.1	29.6	1.97	0.27	0.7
829108	< 5	22.1	1.70	4.37	7.64	0.57	7.08	0.1	242	207	1290	7.44	0.8	139	1.6	0.6	0.6	0.21	4.25	43.2	0.99	0.13	0.5
829109	< 5	17.5	1.37	4.64	7.50	0.38	8.28	0.1	276	215	1650	9.34	0.5	162	1.9	0.3	0.7	0.23	3.49	50.5	0.64	0.33	0.6
829110	< 5	46.9	2.77	0.15	7.32	4.20	1.09	< 0.1	12	10	196	1.20	4.4	1.2	0.6	1.0	0.2	0.09	1.55	1.9	0.64	0.05	0.2
829111	< 5	16.8	1.24	4.04	7.44	0.42	7.83	0.1	270	362	1740	8.55	0.4	157	1.7	0.3	0.7	0.22	3.67	47.6	0.71	0.33	0.6
829112	678	29.3	0.91	2.99	4.99	0.73	4.60	3.2	167	190	997	5.47	0.5	93.3	1.3	0.6	0.4	20.5	8.55	29.6	0.50	20.9	0.8
829113	< 5	24.5	0.95	3.47	7.69	0.82	7.74	0.6	258	254	2410	10.4	0.4	162	1.9	0.7	0.7	0.33	9.42	47.0	0.81	1.05	0.6
829114	5	21.8	1.61	2.81	6.84	0.62	5.95	0.2	216	194	1660	7.69	1.1	118	1.7	2.6	0.6	0.27	16.2	38.1	0.59	0.97	0.7
829115	56	16.8	1.11	4.42	6.81	0.43	7.13	0.3	244	197	1330	7.71	0.4	135	1.6	0.8	0.6	0.87	5.72	42.8	0.66	8.64	0.7

Results

Activation Laboratories Ltd.

Report: A21-18047

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829116	< 5	13.9	1.41	3.83	7.51	0.45	7.81	0.2	287	254	1840	9.90	0.4	160	2.3	0.3	0.7	0.25	3.14	53.7	0.71	0.36	1.3
829117	< 5	23.8	1.52	4.15	6.97	0.29	6.67	0.2	254	269	1440	9.10	0.6	70.6	2.8	0.3	0.9	0.10	5.42	45.1	0.98	0.26	0.8
829118	< 5	28.9	1.32	3.17	5.82	0.26	5.54	0.1	116	181	1060	7.20	0.3	58.3	2.2	0.3	0.7	0.09	3.03	32.7	0.76	4.56	0.5
829119	< 5	29.4	1.68	4.18	7.14	0.43	6.28	0.1	136	143	1250	8.63	0.6	64.7	2.6	0.4	0.9	0.06	4.73	42.7	1.23	0.14	0.4
829120	6710	30.0	1.44	5.20	5.64	0.67	4.60	0.3	185	327	963	5.90	1.5	178	1.2	0.5	0.4	1.50	0.56	37.7	0.53	0.57	1.0
829121	< 5	25.7	1.76	4.98	6.97	0.15	6.68	0.2	174	127	1400	8.94	0.7	69.1	2.8	0.3	0.9	0.07	3.58	45.3	1.01	0.06	0.3
829122	< 5	32.6	1.37	4.50	6.92	0.18	6.85	0.1	193	97	1500	10.3	0.7	69.3	3.0	0.3	1.0	0.06	3.29	54.1	0.97	0.14	0.2
829123	< 5	24.9	1.26	3.83	7.00	0.20	7.26	0.1	146	122	1540	9.64	0.4	69.6	2.9	0.3	0.9	0.06	3.95	45.3	1.03	0.17	0.5
829124	< 5	14.6	0.67	2.95	5.45	0.14	7.73	0.1	151	109	1170	7.23	0.4	46.4	2.7	0.2	0.8	0.08	2.02	31.3	0.87	1.31	0.2
829125	< 5	24.9	1.60	3.97	6.89	0.20	6.66	0.1	190	158	1390	9.40	0.7	66.5	2.9	0.4	1.0	< 0.05	3.67	45.4	1.03	0.09	< 0.1
829126	< 5	24.2	1.55	3.34	6.44	0.38	7.21	< 0.1	201	138	1410	8.59	0.6	63.6	2.9	0.4	0.9	0.07	5.69	41.3	1.22	0.14	< 0.1
829127	< 5	22.0	1.81	4.39	6.51	0.33	6.93	0.1	255	175	1380	8.97	0.7	74.4	2.9	0.3	0.9	0.07	6.96	43.7	0.98	0.08	< 0.1
829128	< 5	38.9	2.11	3.75	6.87	0.86	6.16	0.1	193	141	1110	6.95	1.8	68.5	2.1	0.8	0.8	0.08	6.60	34.9	1.83	0.10	0.3
829129	< 5	29.0	1.85	4.45	7.48	0.44	6.79	0.1	109	136	1400	8.58	0.3	64.8	2.7	0.4	0.9	0.05	7.83	41.2	1.09	0.04	0.3
829130	< 5	44.8	2.91	0.14	7.58	2.70	1.14	< 0.1	13	15	214	1.34	4.4	1.3	0.6	1.1	0.2	0.18	1.57	2.0	0.64	0.04	0.2
829131	< 5	31.8	1.34	5.11	6.59	0.21	6.93	0.1	213	203	1330	8.38	0.7	77.6	2.6	0.3	0.8	0.05	5.53	43.0	0.87	0.15	< 0.1
829132	< 5	22.8	1.69	5.00	6.79	0.15	6.59	0.1	198	135	1380	8.77	0.7	68.8	2.7	0.2	0.9	0.07	3.07	44.6	1.02	0.04	< 0.1
829133	< 5	21.3	1.42	4.62	7.27	0.21	8.10	0.2	220	181	1500	9.12	0.6	76.9	2.9	0.3	1.0	0.05	5.34	47.8	0.98	0.30	< 0.1
829134	< 5	31.5	1.02	3.47	5.94	0.33	7.34	0.2	214	140	2080	11.9	0.7	66.5	3.2	0.3	1.0	0.19	3.48	49.6	0.92	0.24	0.6
829135	< 5	25.6	1.49	3.48	7.07	0.48	7.48	0.2	220	156	1430	8.79	0.5	62.5	2.8	0.4	1.0	0.06	3.44	43.8	1.03	0.19	0.1
829136	< 5	28.5	1.41	4.32	7.57	0.34	8.23	0.2	279	177	1790	10.7	0.6	80.8	3.2	0.3	1.2	0.09	4.07	49.8	1.20	0.10	0.2
829137	< 5	32.9	1.51	4.78	7.53	0.35	7.83	0.2	172	182	1670	10.5	0.6	81.8	3.1	0.3	1.0	0.06	3.55	50.4	1.13	0.11	< 0.1
829138	< 5	21.7	1.27	4.31	6.87	0.20	7.42	0.1	274	262	1540	9.42	0.6	75.0	3.0	0.3	1.0	0.12	2.70	46.5	1.02	0.08	0.1
829139	< 5	19.6	1.31	5.05	6.27	0.15	7.27	0.1	165	276	1390	8.58	0.5	88.6	2.6	0.3	0.9	0.06	2.61	44.2	0.98	0.04	< 0.1
829140	3600	20.3	1.77	4.65	6.07	0.40	5.42	0.1	128	215	1140	6.86	0.6	132	1.8	0.4	0.6	0.77	0.33	39.9	0.72	0.30	0.1
829141	< 5	17.6	1.65	3.81	6.65	0.27	6.71	0.1	185	120	1330	8.60	0.7	66.4	2.6	0.4	0.9	0.07	3.82	42.3	1.15	0.12	< 0.1
829142	< 5	24.7	1.57	3.68	6.97	0.33	6.82	0.2	233	176	1460	9.63	0.6	73.8	3.0	0.4	1.0	0.11	3.73	48.4	1.03	0.16	0.3
829143	< 5	20.9	1.37	4.41	6.70	0.25	7.77	0.2	218	191	1420	9.03	0.5	76.9	2.7	0.3	0.8	0.08	3.32	45.9	0.91	0.31	< 0.1
829144	< 5	18.2	1.55	4.13	6.56	0.23	7.35	< 0.1	231	174	1390	9.01	0.6	73.8	2.6	0.3	0.9	0.07	3.08	45.1	0.95	0.25	< 0.1
829145	< 5	26.7	1.64	4.76	6.55	0.15	6.66	0.2	145	157	1470	9.14	0.4	77.7	2.7	0.4	0.9	0.09	6.69	46.7	1.00	0.39	< 0.1
829146	< 5	25.5	1.39	4.70	6.58	0.12	6.83	0.1	242	241	1340	9.00	0.9	68.4	2.9	0.3	0.9	0.08	2.39	43.1	0.92	0.05	< 0.1
829147	< 5	40.0	1.55	4.82	6.29	0.20	6.52	0.2	181	154	1370	9.05	0.7	70.4	2.8	0.3	1.0	0.12	11.2	44.9	1.01	0.05	< 0.1
829148	< 5	26.5	1.52	4.91	6.65	0.46	7.10	0.2	160	159	1410	9.14	0.5	76.2	2.8	0.3	0.9	0.06	5.57	45.8	0.95	0.19	< 0.1
829149	< 5	31.0	> 3.00	0.82	6.60	0.67	2.01	< 0.1	53	34	296	2.13	2.1	15.4	0.5	0.7	0.2	< 0.05	6.41	8.7	0.51	0.04	0.1
829150	5	44.9	> 3.00	0.15	7.90	3.50	1.18	< 0.1	12	10	198	1.24	4.3	1.2	0.6	1.0	0.2	0.15	1.44	2.0	0.61	0.04	0.1
829151	< 5	28.6	1.45	4.63	6.60	0.34	6.71	0.2	212	136	1410	8.99	0.7	68.2	2.6	0.3	0.8	0.09	3.47	45.1	0.90	0.17	0.4
829152	< 5	26.3	1.43	5.03	7.06	0.18	6.89	0.2	228	156	1440	9.09	0.9	77.0	2.8	0.4	1.0	0.07	1.85	46.2	0.99	0.08	< 0.1
829153	< 5	25.4	1.34	4.57	6.99	0.24	7.01	0.1	132	171	1290	8.36	0.5	77.9	2.5	0.4	0.8	0.05	3.16	42.8	0.91	0.09	0.2
829154	< 5	33.2	1.77	4.40	7.65	0.20	6.43	0.2	106	114	1280	8.12	0.5	58.6	2.6	0.4	0.9	0.06	3.29	39.3	1.13	0.05	0.1
829155	< 5	20.0	1.49	4.77	7.33	0.24	7.91	0.2	132	138	1470	9.05	0.3	70.0	3.1	0.4	0.9	0.27	2.94	47.8	1.02	0.05	0.1
829156	< 5	34.1	> 3.00	2.10	7.76	0.68	3.94	< 0.1	75	40	634	4.28	1.7	27.5	1.3	0.7	0.4	< 0.05	5.60	20.0	0.79	0.04	0.2
829157	< 5	19.6	1.53	2.99	6.96	0.56	7.65	0.2	124	73	1460	8.06	0.4	52.9	2.5	0.5	0.8	0.07	5.81	38.1	1.05	0.48	0.4
829158	< 5	22.9	1.21	4.19	7.13	0.39	7.70	0.2	225	108	1290	9.36	0.6	63.1	2.9	0.3	1.0	0.08	6.59	45.1	1.09	0.21	0.3
829159	< 5	18.3	0.98	4.23	7.44	0.37	8.93	0.2	279	239	1800	10.9	0.5	99.7	3.3	0.4	1.1	0.15	5.32	56.1	1.22	0.35	0.6
829160	5440	13.8	1.24	3.18	5.39	0.58	5.68	0.3	126	130	3670	11.2	1.5	108	2.2	0.8	0.8	0.99	2.86	33.7	1.48	0.19	2.7
829161	< 5	20.3	1.24	4.75	7.43	0.44	9.06	0.2	157	226	1630	10.4	0.2	82.0	3.5	0.3	1.2	0.09	6.12	51.7	1.13	0.25	0.2
829162	5	15.3	1.45	4.05	7.19	0.19	7.82	0.1	255	188	1660	9.85	0.7	69.1	2.8	0.3	1.0	0.09	2.69	50.0	1.08	0.14	0.2
829163	< 5	22.3	1.55	3.11	7.43	0.28	7.32	< 0.1	109	143	1460	8.63	0.3	66.8	3.0	0.4	1.0	0.08	4.78	46.4	1.09	0.14	0.2
829164	< 5	23.3	1.58	2.73	7.20	0.41	7.05	< 0.1	108	166	1490	8.81	0.3	67.9	2.9	0.3	0.9	0.06	4.46	46.7	1.07	0.10	0.2
829165	< 5	20.1	1.94	3.79	7.26	0.30	6.80	< 0.1	231	102	1340	8.62	0.8	60.3	2.9	0.3	1.0	0.06	3.61	46.2	1.01	0.10	0.4
829166	< 5	28.4	1.62	2.99	7.08	0.41	6.49	< 0.1	239	141	1450	8.96	0.8	61.7	3.0	0.3	1.0	0.07	5.85	48.3	0.98	0.13	0.3

Results

Activation Laboratories Ltd.

Report: A21-18047

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829167	< 5	18.9	1.38	4.45	7.27	0.12	8.37	< 0.1	196	114	1480	9.29	0.6	78.8	3.1	0.3	1.0	0.05	1.95	49.7	1.03	0.04	0.4
829168	< 5	14.4	0.93	3.09	5.09	0.10	6.16	< 0.1	108	181	1040	6.70	0.3	68.1	2.3	0.3	0.7	< 0.05	2.05	37.0	0.76	0.04	0.2
829169	< 5	38.4	1.63	3.10	7.03	0.56	5.98	< 0.1	177	217	1320	8.53	0.7	73.0	2.8	0.4	0.9	< 0.05	7.62	44.5	0.87	0.09	0.1
829170	< 5	43.3	2.84	0.16	7.71	3.09	1.21	< 0.1	12	19	207	1.46	4.2	3.3	0.6	1.0	0.2	0.16	1.57	2.3	0.62	0.05	< 0.1
829171	5	25.6	1.43	4.35	7.45	0.42	7.58	< 0.1	246	342	1860	10.1	0.9	173	3.0	0.4	0.9	0.11	4.31	61.6	1.02	0.22	0.9
829172	11	22.5	1.16	4.38	7.24	0.33	8.41	0.1	220	340	1820	9.85	0.6	180	2.9	0.4	1.0	0.06	7.45	58.6	1.06	0.11	0.2
829173	< 5	26.7	1.40	3.68	7.06	0.42	6.34	< 0.1	250	359	1700	9.09	0.8	155	2.8	0.4	0.9	0.08	6.61	54.5	0.99	0.23	< 0.1
829174	< 5	28.6	1.41	3.93	7.83	0.29	7.36	< 0.1	151	407	1950	9.84	0.4	173	3.3	0.5	1.0	< 0.05	4.49	59.1	1.12	0.13	0.2
829175	12	17.4	1.15	3.92	7.15	0.10	7.94	0.1	237	512	1690	9.06	0.6	161	2.9	0.3	0.9	0.07	1.90	54.9	1.01	0.10	0.3
829176	6	18.4	1.23	3.86	6.97	0.11	7.75	0.1	152	366	1670	8.94	0.4	169	2.9	0.4	1.0	0.10	1.55	57.7	1.07	0.06	< 0.1
829177	< 5	31.3	1.28	3.64	6.64	0.19	6.96	< 0.1	209	395	1910	10.6	0.7	174	3.1	0.4	1.0	0.07	3.21	58.9	1.06	0.05	< 0.1
829178	< 5	21.6	1.28	3.09	6.53	0.23	7.29	< 0.1	188	378	1840	9.36	0.6	193	3.2	0.3	1.0	0.06	3.52	58.3	1.00	0.04	0.2
829179	< 5	23.6	1.86	3.16	6.86	0.26	5.91	0.1	153	347	1740	8.80	0.7	174	3.0	0.4	0.9	0.07	2.43	56.7	0.95	0.07	0.1
829180	6670	26.9	1.33	4.73	5.39	0.63	4.46	0.3	171	299	898	5.61	1.3	169	1.4	0.5	0.5	1.40	0.58	37.0	0.54	0.55	1.0
829181	6	20.0	1.40	3.29	6.84	0.31	6.89	0.1	156	370	1830	9.37	0.5	182	3.1	0.4	1.0	0.06	3.38	59.3	1.03	0.08	0.1
829182	< 5	27.6	1.25	3.57	7.05	0.48	7.52	0.1	182	423	2210	10.0	0.5	196	3.1	0.5	1.2	0.07	5.08	62.2	0.95	0.12	0.2
829183	< 5	32.6	1.14	3.50	6.98	0.58	6.71	0.2	167	341	2120	9.39	0.5	162	2.9	0.4	1.0	0.08	5.36	56.5	0.95	0.13	< 0.1
829184	< 5	42.1	1.44	1.70	7.88	0.61	3.65	0.2	178	564	2060	10.5	0.7	181	3.0	0.4	1.0	0.08	3.86	75.5	1.00	0.08	0.3
829185	5	40.9	1.93	1.37	7.79	0.65	3.95	0.2	182	114	2120	10.3	1.9	70.1	3.1	0.9	1.0	0.15	5.37	32.6	1.25	0.13	0.5
829186	12	58.5	1.55	1.81	7.51	0.57	4.52	0.2	274	189	2550	13.3	1.2	105	3.3	0.4	1.1	0.15	6.69	55.9	0.99	0.21	0.9
829187	6	41.2	1.50	4.34	7.43	0.50	8.19	1.6	152	250	1480	8.59	0.7	150	2.1	0.3	0.7	0.26	5.35	53.5	0.81	0.19	0.6
829188	9	51.4	1.60	4.77	7.31	0.24	7.72	0.3	256	256	1440	8.58	0.9	116	2.2	0.3	0.7	0.13	4.30	49.7	0.78	0.11	0.4
829189	< 5	36.8	1.47	5.79	8.82	0.32	8.86	0.2	215	199	1530	8.96	0.5	149	1.8	0.3	0.7	0.09	9.04	58.1	0.73	0.23	0.3
829190	< 5	46.2	2.70	0.15	7.79	3.11	1.22	< 0.1	12	10	207	1.38	4.5	1.7	0.6	1.1	0.2	0.23	1.54	2.0	0.67	0.04	0.3
829191	14	34.6	0.98	3.93	5.78	0.14	7.11	0.1	140	160	1020	5.78	0.3	125	1.1	0.1	0.4	< 0.05	4.72	38.6	0.41	0.15	0.3
829192	6	30.3	1.16	4.72	7.66	0.08	11.5	0.1	204	167	1370	7.39	0.5	130	1.5	0.2	0.5	0.09	4.66	45.4	0.55	0.26	0.3
829193	8	53.3	1.29	4.63	6.79	0.16	8.58	0.2	156	166	1260	7.19	0.4	144	1.6	0.2	0.5	0.07	8.78	48.4	0.56	0.17	0.3
829194	8	59.9	0.99	4.81	7.41	0.16	8.34	0.4	223	214	1320	8.45	0.7	152	2.2	0.4	0.7	0.14	3.77	52.3	0.95	0.22	0.5
829195	6	20.8	0.84	2.81	6.82	0.17	9.55	0.2	118	54	1300	9.40	0.4	55.1	2.9	0.3	1.0	0.09	2.84	47.4	1.17	0.27	0.2
829196	7	32.2	1.24	4.27	6.84	0.17	7.86	0.2	229	120	1410	9.44	1.1	64.0	3.0	0.3	1.0	0.17	2.66	50.4	1.02	0.15	0.2
829197	6	35.1	2.31	5.04	8.58	0.12	6.26	0.2	257	109	1550	9.60	1.2	79.5	2.7	0.3	0.9	0.18	1.83	49.0	0.91	0.09	0.2
829198	< 5	76.7	1.40	5.96	6.40	0.52	6.28	0.3	183	504	1530	10.2	1.7	226	3.1	2.1	1.0	0.09	8.73	54.8	1.17	0.66	0.2
829199	< 5	22.7	1.39	2.73	6.74	0.37	7.16	0.1	128	112	1700	9.21	0.5	63.9	3.4	0.8	1.1	0.12	5.27	39.2	1.25	2.27	0.5
829200	3490	20.5	1.81	4.77	6.05	0.42	5.61	0.2	243	242	1200	7.16	1.5	139	1.9	0.3	0.6	0.85	0.36	42.0	0.71	0.32	0.7
829201	< 5	23.7	1.19	2.19	6.77	0.31	8.97	0.2	108	106	1770	9.13	0.3	68.3	3.7	0.7	1.3	0.09	3.53	41.9	1.39	1.54	0.2
829202	< 5	16.6	0.60	1.57	4.21	0.17	6.53	0.1	102	87	1210	6.72	0.2	49.2	2.7	0.5	0.9	0.06	2.28	28.3	0.94	1.33	< 0.1
829203	< 5	15.8	1.35	2.41	6.20	0.31	8.51	0.2	239	163	1810	9.72	0.7	72.6	3.9	0.6	1.3	0.13	3.61	44.0	1.42	0.63	0.1
829204	< 5	17.7	1.00	2.24	6.17	0.25	8.98	0.3	115	128	1830	9.70	0.3	65.7	3.9	0.6	1.2	0.10	2.59	40.8	1.41	1.02	0.2
829205	< 5	44.9	1.58	2.96	7.02	0.46	6.90	0.1	105	129	1510	9.81	0.3	67.1	3.8	0.8	1.3	0.08	5.24	42.5	1.47	0.52	< 0.1
829206	< 5	20.5	> 3.00	0.13	7.30	2.54	1.71	< 0.1	8	7	366	0.92	2.7	1.4	0.8	1.2	0.3	0.11	2.40	1.2	0.63	0.06	0.4
829207	< 5	44.8	1.17	3.50	6.67	0.44	7.46	0.2	147	125	1680	10.2	0.6	82.1	3.8	0.7	1.2	0.08	5.29	44.7	1.35	0.51	< 0.1
829208	< 5	48.8	2.85	1.39	7.39	0.85	3.53	0.1	60	36	609	3.98	1.7	29.7	1.2	0.9	0.4	< 0.05	10.1	15.9	0.87	0.25	0.2
829209	5	29.9	1.14	2.50	5.62	0.48	6.12	0.3	92	105	1220	8.31	0.4	69.1	2.9	0.5	1.0	0.11	6.01	35.6	1.19	0.66	0.2
829210	< 5	44.6	2.55	0.13	7.39	3.04	1.08	< 0.1	12	16	204	1.36	4.6	1.5	0.6	0.9	0.2	0.16	1.55	1.9	0.57	0.06	0.1
829211	< 5	19.7	1.36	3.02	6.38	0.34	7.43	0.2	140	136	1380	8.94	0.6	57.5	2.9	0.5	1.0	0.17	3.95	36.9	1.19	0.59	0.6
829212	< 5	12.9	1.37	3.47	6.46	0.33	8.30	0.1	212	148	1420	7.86	0.3	52.0	1.9	0.3	0.7	0.09	2.66	38.0	0.80	0.32	0.4
829213	< 5	22.1	1.23	3.38	7.26	0.37	8.23	0.2	204	193	1460	8.06	0.4	51.0	2.0	0.3	0.7	0.07	6.30	41.3	0.70	0.56	0.4
829214	6	20.3	1.24	3.44	7.43	0.36	8.16	0.2	274	201	1600	9.15	0.5	57.3	2.1	0.3	0.7	0.12	5.20	46.4	0.77	0.44	0.5
829215	< 5	45.0	1.05	3.51	7.81	0.51	6.81	0.1	290	247	1600	9.07	0.5	68.2	2.4	0.3	0.8	0.10	11.9	46.2	0.86	0.26	0.2

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829065	75.9	15.0	0.1	9.5	11.8	84.7	6	0.4	0.20	< 0.1	< 1	< 0.1	< 0.1	60	1.4	4.1	0.7	3.7	1.4	2.0	0.4	2.6	84.2
829066	81.7	13.4	< 0.1	3.4	13.2	113	5	0.1	0.08	< 0.1	< 1	< 0.1	< 0.1	33	1.4	4.2	0.7	3.4	1.1	1.9	0.3	2.3	87.5
829067	158	14.2	< 0.1	10.7	14.5	118	6	1.1	0.22	< 0.1	< 1	< 0.1	< 0.1	51	1.8	4.8	0.8	3.7	1.6	2.0	0.4	2.7	83.0
829068	71.7	12.9	< 0.1	19.9	13.2	123	5	0.2	0.20	< 0.1	< 1	< 0.1	< 0.1	88	1.6	4.2	0.7	3.5	1.3	1.9	0.3	2.4	88.5
829069	88.0	8.9	1.7	68.9	17.5	832	120	5.2	0.07	< 0.1	< 1	< 0.1	< 0.1	1020	45.9	88.4	11.2	38.4	6.5	4.9	0.6	3.4	33.9
829070	41.8	11.6	< 0.1	107	6.5	119	138	6.4	0.16	< 0.1	2	< 0.1	< 0.1	791	36.1	71.3	7.2	21.4	3.4	2.3	0.3	1.3	2.0
829071	91.9	11.9	< 0.1	37.8	13.5	102	14	1.4	0.28	0.1	< 1	< 0.1	< 0.1	245	2.6	5.7	0.9	4.5	1.5	2.0	0.3	2.4	99.4
829072	45.8	14.8	< 0.1	46.4	6.4	51.9	76	2.7	1.27	< 0.1	2	< 0.1	0.2	304	14.8	29.7	3.6	12.7	1.9	1.7	0.2	1.3	92.3
829073	34.2	15.8	< 0.1	45.4	7.3	68.5	80	2.9	1.52	< 0.1	1	< 0.1	0.1	342	17.5	34.1	4.2	14.4	2.2	1.9	0.2	1.4	190
829074	48.7	16.8	< 0.1	32.9	12.0	175	53	2.2	5.31	0.2	< 1	< 0.1	0.2	211	13.2	27.6	3.3	11.7	2.5	2.3	0.3	2.2	739
829075	80.7	15.8	< 0.1	13.9	17.7	173	26	2.0	1.40	< 0.1	< 1	< 0.1	< 0.1	94	3.3	8.5	1.3	5.8	2.1	2.7	0.4	2.9	86.6
829076	59.0	19.0	0.6	44.6	5.5	477	99	0.6	0.09	< 0.1	< 1	< 0.1	< 0.1	471	17.4	34.7	3.8	14.6	2.9	2.1	0.2	1.1	25.3
829077	49.7	19.4	< 0.1	25.3	6.2	412	84	0.3	0.21	< 0.1	< 1	< 0.1	< 0.1	335	15.0	30.7	3.7	12.9	2.7	2.0	0.2	1.2	59.7
829078	76.6	15.1	< 0.1	9.8	13.2	169	15	1.5	2.50	< 0.1	< 1	< 0.1	< 0.1	65	2.4	6.2	1.0	4.5	1.5	2.0	0.3	2.4	102
829079	69.6	16.6	< 0.1	2.4	14.0	139	14	1.6	0.66	< 0.1	< 1	< 0.1	< 0.1	32	2.6	6.7	1.0	4.5	1.7	2.1	0.4	2.4	106
829080	76.1	11.7	41.2	25.7	12.3	96.3	47	2.2	5.15	< 0.1	< 1	0.8	0.2	240	5.9	11.5	1.4	5.5	1.8	1.8	0.3	2.2	131
829081	63.4	17.5	< 0.1	0.6	14.1	118	12	0.5	< 0.05	< 0.1	< 1	< 0.1	< 0.1	13	2.5	6.3	1.0	4.5	1.6	2.1	0.4	2.6	107
829082	55.0	16.1	< 0.1	0.7	12.2	112	8	0.1	0.12	< 0.1	< 1	< 0.1	< 0.1	12	2.2	5.6	0.9	4.2	1.4	1.9	0.3	2.2	84.3
829083	66.8	17.7	< 0.1	0.3	14.5	124	18	0.4	0.05	< 0.1	< 1	< 0.1	< 0.1	16	2.6	6.4	1.0	4.6	1.4	2.2	0.4	2.5	98.7
829084	75.6	16.0	< 0.1	13.3	19.3	235	27	0.4	0.23	< 0.1	< 1	< 0.1	< 0.1	71	2.9	7.8	1.3	6.0	2.2	2.8	0.5	3.6	98.1
829085	98.2	13.8	< 0.1	33.4	17.7	286	17	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	299	9.3	21.7	2.8	11.5	3.1	3.1	0.5	3.2	109
829086	217	13.3	< 0.1	41.7	18.0	370	59	1.9	0.23	< 0.1	1	< 0.1	< 0.1	351	25.8	53.5	7.2	27.7	5.5	5.0	0.6	3.7	174
829087	122	11.9	< 0.1	54.9	16.1	473	75	3.2	1.08	< 0.1	< 1	< 0.1	0.2	419	40.6	81.3	11.0	40.4	6.5	5.7	0.6	3.7	86.9
829088	103	15.2	< 0.1	7.9	18.6	244	5	0.1	0.26	< 0.1	< 1	< 0.1	< 0.1	97	3.9	9.6	1.5	6.9	2.3	3.2	0.5	3.6	109
829089	94.7	14.3	< 0.1	39.4	17.3	156	19	0.7	0.57	< 0.1	< 1	< 0.1	< 0.1	103	18.3	35.5	4.3	15.0	3.3	3.4	0.5	3.2	159
829090	37.4	10.6	< 0.1	102	6.2	116	133	6.0	0.15	< 0.1	2	< 0.1	< 0.1	793	32.4	64.3	6.3	19.5	2.9	2.3	0.2	1.3	1.7
829091	74.6	13.5	< 0.1	21.8	13.0	126	14	1.2	1.67	< 0.1	< 1	< 0.1	< 0.1	69	5.3	11.5	1.5	6.3	1.6	2.1	0.4	2.5	115
829092	70.9	15.5	< 0.1	7.4	12.5	139	12	1.3	0.20	< 0.1	< 1	< 0.1	< 0.1	36	2.2	5.7	0.8	4.0	1.4	1.8	0.3	2.2	111
829093	67.8	18.4	< 0.1	9.4	21.9	114	21	2.6	0.26	< 0.1	< 1	< 0.1	< 0.1	32	3.9	10.4	1.6	7.3	2.9	3.4	0.6	3.9	156
829094	56.7	15.6	< 0.1	13.8	23.4	146	27	2.7	0.63	< 0.1	< 1	< 0.1	0.1	76	9.6	19.9	2.6	10.9	3.1	4.0	0.6	4.3	126
829095	76.4	17.5	< 0.1	6.9	23.5	112	6	< 0.1	0.07	< 0.1	< 1	< 0.1	< 0.1	24	4.5	11.7	1.7	8.4	2.0	3.4	0.6	4.1	120
829096	75.0	16.9	0.6	9.1	20.5	113	16	0.3	0.65	< 0.1	< 1	< 0.1	0.1	42	3.3	9.2	1.4	6.8	2.2	2.7	0.5	3.5	115
829097	75.4	15.2	< 0.1	35.6	16.0	570	60	2.9	0.47	< 0.1	< 1	< 0.1	< 0.1	385	13.7	29.6	3.6	13.9	2.9	2.9	0.4	2.9	43.8
829098	52.5	17.1	< 0.1	36.1	6.2	227	94	2.5	1.53	< 0.1	1	< 0.1	0.2	348	15.6	35.2	4.1	14.6	2.6	1.9	0.2	1.2	78.5
829099	671	18.1	1.2	42.1	7.3	221	94	3.8	1.34	0.1	2	< 0.1	0.2	440	12.6	32.1	3.6	12.9	2.1	1.9	0.2	1.4	77.3
829100	123	15.0	3640	20.9	22.9	237	80	8.7	3.37	< 0.1	1	7.1	< 0.1	123	18.4	31.7	4.8	20.6	4.4	4.6	0.7	4.0	160
829101	366	18.0	3.2	41.9	6.9	267	94	4.2	6.46	0.1	1	< 0.1	0.5	480	16.8	40.7	4.4	16.2	1.9	1.9	0.2	1.3	125
829102	157	14.7	0.2	44.4	14.0	174	15	2.1	0.43	< 0.1	< 1	< 0.1	0.2	117	3.1	8.4	1.2	5.6	1.7	2.0	0.4	2.4	105
829103	122	14.8	0.4	52.4	14.9	157	8	1.4	0.28	< 0.1	< 1	< 0.1	< 0.1	138	2.3	6.5	1.0	5.1	1.6	2.0	0.4	2.7	107
829104	121	9.6	1.2	40.6	8.4	88.8	6	1.1	1.31	< 0.1	< 1	< 0.1	7.1	168	1.4	3.8	0.6	2.7	0.8	1.2	0.2	1.5	118
829105	103	16.6	1.4	16.0	17.2	147	9	1.5	0.37	< 0.1	< 1	< 0.1	0.2	43	2.8	7.5	1.2	5.8	1.7	2.4	0.4	3.2	112
829106	85.6	15.2	< 0.1	20.8	15.3	184	18	1.8	0.26	< 0.1	< 1	< 0.1	< 0.1	145	6.5	16.2	2.2	9.9	2.3	2.5	0.4	2.9	112
829107	90.2	14.8	< 0.1	55.5	15.2	895	97	4.9	0.18	< 0.1	< 1	< 0.1	< 0.1	916	41.8	95.2	12.0	46.2	7.2	5.6	0.6	3.1	61.6
829108	92.2	16.1	1.9	17.8	15.9	307	27	2.8	0.41	< 0.1	< 1	< 0.1	< 0.1	239	11.7	28.2	3.7	15.9	3.4	3.0	0.4	3.2	119
829109	100.0	16.6	< 0.1	9.9	17.7	117	10	2.1	0.39	< 0.1	< 1	< 0.1	< 0.1	29	2.7	7.6	1.2	5.7	1.8	2.4	0.4	3.1	151
829110	46.4	17.3	< 0.1	137	6.4	115	156	1.8	0.18	< 0.1	2	< 0.1	< 0.1	797	35.6	84.1	7.6	23.5	3.0	2.8	0.3	1.2	1.0
829111	91.2	16.6	0.4	11.4	17.3	136	9	2.4	0.52	< 0.1	< 1	< 0.1	0.1	29	2.8	7.6	1.1	5.5	1.7	2.2	0.4	2.7	104
829112	115	11.5	1.8	51.1	11.1	85.2	11	0.4	0.81	< 0.1	< 1	< 0.1	3.8	99	2.0	5.3	0.8	3.7	1.3	1.6	0.3	1.9	124
829113	105	18.0	< 0.1	43.7	19.8	146	10	1.6	0.17	< 0.1	< 1	< 0.1	< 0.1	117	3.0	8.3	1.3	6.2	1.9	2.8	0.5	3.3	98.1
829114	108	19.8	0.7	43.0	18.1	136	23	4.1	2.67	< 0.1	1	< 0.1	0.3	118	3.7	9.6	1.4	6.6	2.3	2.6	0.5	3.2	151
829115	108	14.5	1.6	25.1	14.9	102	8	2.0	4.16	< 0.1	< 1	< 0.1	4.4	71	2.5	6.8	1.0	5.2	1.2	2.2	0.4	2.6	125

Results

Activation Laboratories Ltd.

Report: A21-18047

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829116	110	17.3	0.7	11.0	18.4	131	10	1.9	2.85	< 0.1	< 1	< 0.1	< 0.1	90	2.9	8.2	1.2	5.8	1.9	2.4	0.4	3.3	163
829117	97.9	15.9	< 0.1	12.8	23.9	152	15	2.4	0.49	< 0.1	< 1	< 0.1	< 0.1	106	4.1	11.2	1.8	8.2	2.8	3.5	0.6	4.4	73.8
829118	80.4	13.1	< 0.1	9.8	19.3	104	9	< 0.1	0.20	< 0.1	< 1	< 0.1	< 0.1	147	4.1	10.8	1.6	7.2	2.3	2.9	0.5	3.5	92.2
829119	97.9	16.3	< 0.1	18.6	22.7	251	19	0.1	0.10	< 0.1	< 1	< 0.1	< 0.1	276	13.0	31.5	4.1	17.5	4.5	4.1	0.6	4.2	84.8
829120	87.1	12.9	61.1	25.3	12.7	89.7	50	1.3	5.42	< 0.1	< 1	0.3	0.2	242	5.5	11.8	1.5	6.2	1.7	2.0	0.3	2.3	133
829121	103	16.9	0.6	5.7	25.1	115	21	0.1	0.17	< 0.1	< 1	< 0.1	< 0.1	30	4.2	11.9	1.9	8.9	2.7	3.8	0.6	4.4	102
829122	112	17.2	< 0.1	7.4	28.0	110	21	0.4	0.33	< 0.1	< 1	< 0.1	< 0.1	45	4.6	13.0	2.1	9.5	3.2	4.0	0.7	4.9	102
829123	111	17.0	0.6	6.7	25.5	103	10	0.4	0.18	< 0.1	< 1	< 0.1	< 0.1	66	4.6	12.8	2.1	9.6	3.1	3.9	0.6	4.5	116
829124	73.6	15.7	2.1	7.1	21.0	119	11	< 0.1	0.26	< 0.1	< 1	< 0.1	< 0.1	41	3.4	9.3	1.5	7.0	1.8	2.8	0.5	3.7	150
829125	108	17.2	0.1	7.3	25.8	119	21	0.1	0.15	< 0.1	< 1	< 0.1	< 0.1	62	4.3	12.4	2.0	9.5	2.9	3.9	0.6	4.6	64.7
829126	104	16.4	< 0.1	9.5	24.5	214	18	0.5	0.22	< 0.1	< 1	< 0.1	< 0.1	268	9.3	23.4	3.3	14.3	3.4	4.1	0.6	4.4	80.2
829127	95.5	16.3	< 0.1	10.8	23.7	147	17	2.0	0.64	< 0.1	< 1	< 0.1	< 0.1	92	4.6	12.6	2.0	9.2	2.6	3.6	0.6	4.2	79.8
829128	95.8	14.9	2.4	33.2	18.6	520	68	1.5	3.92	< 0.1	< 1	< 0.1	< 0.1	601	33.6	78.1	10.1	38.7	6.1	5.3	0.6	3.6	67.6
829129	102	16.2	< 0.1	23.1	23.7	146	10	< 0.1	0.32	< 0.1	< 1	< 0.1	< 0.1	201	7.3	18.2	2.6	11.3	3.1	3.7	0.6	3.9	89.1
829130	44.2	16.6	0.1	108	6.1	112	152	8.2	5.69	< 0.1	2	< 0.1	< 0.1	758	32.9	72.3	7.1	21.8	3.3	2.5	0.2	1.3	1.6
829131	98.6	15.4	< 0.1	11.5	21.7	104	21	< 0.1	0.16	< 0.1	< 1	< 0.1	< 0.1	34	3.9	10.4	1.7	8.0	2.2	3.3	0.6	4.2	74.9
829132	87.7	16.3	< 0.1	4.9	24.0	101	22	0.3	0.18	< 0.1	< 1	< 0.1	< 0.1	46	3.8	11.0	1.7	8.2	2.7	3.6	0.6	4.3	111
829133	105	16.3	< 0.1	9.3	24.8	140	16	0.3	0.12	< 0.1	< 1	< 0.1	< 0.1	145	4.2	11.6	1.9	9.0	2.7	3.8	0.6	4.7	91.0
829134	133	15.0	< 0.1	13.5	28.5	82.4	22	0.9	1.07	< 0.1	< 1	< 0.1	< 0.1	160	5.1	13.7	2.1	9.6	3.3	4.1	0.7	4.7	421
829135	104	17.2	< 0.1	20.4	26.1	147	11	0.8	4.27	< 0.1	< 1	< 0.1	< 0.1	188	4.5	12.3	1.9	8.6	2.6	3.9	0.6	4.6	69.4
829136	124	19.1	< 0.1	16.2	29.4	129	13	1.6	0.40	< 0.1	< 1	< 0.1	< 0.1	126	4.9	13.9	2.2	10.4	3.3	4.5	0.8	5.3	97.1
829137	109	18.3	< 0.1	15.9	27.6	112	16	0.2	0.61	< 0.1	< 1	< 0.1	< 0.1	144	4.3	12.5	2.0	9.3	2.6	4.0	0.7	5.1	79.0
829138	108	16.9	0.4	7.2	25.0	99.1	15	3.2	0.61	< 0.1	< 1	< 0.1	< 0.1	44	4.1	11.6	1.9	8.3	3.1	3.7	0.6	4.7	95.8
829139	93.7	15.8	< 0.1	4.6	23.1	97.1	14	< 0.1	0.08	< 0.1	< 1	< 0.1	< 0.1	25	3.7	10.6	1.7	7.4	2.8	3.3	0.6	4.0	83.7
829140	85.8	13.7	24.7	14.2	16.3	90.9	20	< 0.1	0.33	< 0.1	< 1	< 0.1	< 0.1	203	4.3	10.4	1.5	6.5	1.7	2.5	0.4	2.9	143
829141	101	16.7	< 0.1	8.3	22.9	251	20	0.6	0.30	< 0.1	< 1	< 0.1	< 0.1	129	10.5	26.1	3.6	14.6	3.5	3.9	0.6	4.2	89.9
829142	107	17.2	0.2	12.6	26.1	145	16	1.5	0.47	< 0.1	< 1	< 0.1	< 0.1	156	4.2	12.1	1.9	8.8	2.5	3.7	0.6	4.3	164
829143	100	16.9	< 0.1	9.9	22.4	146	12	0.4	0.20	< 0.1	< 1	< 0.1	< 0.1	47	4.0	11.0	1.7	8.0	2.4	3.4	0.6	4.3	82.0
829144	98.8	16.4	< 0.1	8.6	23.6	169	13	0.7	0.36	< 0.1	< 1	< 0.1	< 0.1	70	4.1	11.4	1.7	8.1	2.4	3.4	0.6	4.4	68.7
829145	103	16.8	0.3	5.5	24.7	96.9	22	< 0.1	0.12	< 0.1	< 1	< 0.1	< 0.1	64	4.0	11.4	1.8	8.1	2.5	3.5	0.6	4.4	100
829146	97.0	16.4	0.7	4.2	23.3	100	25	1.6	0.32	< 0.1	< 1	< 0.1	< 0.1	16	4.0	11.2	1.8	8.5	2.4	3.5	0.6	4.2	82.8
829147	103	16.9	< 0.1	8.9	24.7	81.6	20	< 0.1	0.08	< 0.1	< 1	< 0.1	< 0.1	33	4.1	11.6	1.8	8.5	2.7	3.7	0.6	4.3	88.4
829148	98.4	16.3	< 0.1	21.6	24.0	145	12	< 0.1	0.09	< 0.1	< 1	< 0.1	< 0.1	120	4.0	11.3	1.8	8.2	2.4	3.5	0.6	4.4	77.2
829149	51.3	17.4	< 0.1	31.2	4.9	294	75	0.8	1.08	< 0.1	< 1	< 0.1	< 0.1	496	11.8	25.4	3.1	10.5	1.7	1.6	0.2	0.9	16.0
829150	48.0	18.8	< 0.1	119	6.2	115	152	5.6	0.96	< 0.1	2	< 0.1	< 0.1	789	36.9	76.1	7.6	23.0	3.2	2.6	0.3	1.3	1.6
829151	100	16.5	0.2	12.7	22.6	133	19	1.0	2.28	< 0.1	< 1	< 0.1	< 0.1	70	4.2	11.5	1.8	8.3	2.7	3.4	0.6	4.1	164
829152	101	17.6	< 0.1	4.2	24.7	99.7	28	0.4	0.18	< 0.1	< 1	< 0.1	< 0.1	25	4.2	11.8	1.8	8.6	2.8	3.6	0.6	4.3	83.5
829153	93.7	17.3	< 0.1	8.9	20.9	151	14	0.2	0.14	< 0.1	< 1	< 0.1	< 0.1	105	5.3	13.6	2.0	8.7	2.3	3.3	0.5	3.9	88.2
829154	91.8	17.2	0.3	8.2	22.6	173	16	< 0.1	0.11	< 0.1	< 1	< 0.1	< 0.1	94	9.5	23.6	3.1	13.7	3.0	4.1	0.6	4.3	107
829155	103	17.0	< 0.1	7.4	24.9	160	7	< 0.1	0.15	< 0.1	< 1	< 0.1	< 0.1	51	4.7	13.0	2.0	9.3	2.5	3.9	0.6	4.8	99.8
829156	69.3	18.7	< 0.1	25.3	10.9	390	62	0.1	0.12	< 0.1	< 1	< 0.1	< 0.1	413	12.0	26.9	3.3	12.2	2.1	2.5	0.3	2.2	47.0
829157	94.1	17.1	3.5	15.7	21.1	282	12	< 0.1	0.17	< 0.1	< 1	< 0.1	< 0.1	217	9.2	22.3	3.1	12.7	3.4	3.6	0.6	4.2	94.0
829158	102	17.4	< 0.1	16.4	25.5	97.6	16	0.9	0.43	< 0.1	< 1	< 0.1	< 0.1	71	4.5	12.7	1.9	9.1	2.6	4.0	0.6	5.1	96.6
829159	125	18.5	< 0.1	12.2	29.4	127	12	2.3	0.55	< 0.1	< 1	< 0.1	< 0.1	111	4.9	13.8	2.1	9.7	3.5	4.4	0.8	5.5	172
829160	123	14.7	3290	19.8	22.1	239	54	4.2	1.70	< 0.1	1	5.4	< 0.1	153	17.9	30.8	4.8	19.6	4.2	4.8	0.7	4.5	157
829161	119	18.6	2.6	16.4	29.3	141	5	< 0.1	0.13	< 0.1	< 1	< 0.1	< 0.1	224	5.0	14.0	2.2	10.5	2.9	4.6	0.8	5.4	119
829162	105	18.0	0.7	4.2	25.1	136	18	1.0	0.28	< 0.1	< 1	< 0.1	< 0.1	68	4.3	12.3	1.9	8.7	3.0	4.0	0.7	4.9	73.7
829163	93.0	17.2	1.1	10.2	24.7	122	8	< 0.1	0.09	< 0.1	< 1	< 0.1	< 0.1	180	4.3	12.2	1.9	8.9	2.7	3.9	0.7	4.8	132
829164	84.4	15.5	0.9	15.5	24.6	104	7	< 0.1	0.07	< 0.1	< 1	< 0.1	< 0.1	490	4.3	11.8	1.9	8.6	2.9	4.0	0.7	4.8	106
829165	86.1	16.4	< 0.1	8.5	25.0	120	25	0.5	0.25	< 0.1	< 1	< 0.1	< 0.1	263	4.1	11.7	1.8	8.4	2.4	3.9	0.6	4.6	92.6
829166	89.5	16.0	0.1	15.3	25.6	108	26	1.1	0.37	< 0.1	< 1	< 0.1	< 0.1	454	4.3	12.2	1.9	8.8	2.5	3.9	0.7	4.8	110

Results

Activation Laboratories Ltd.

Report: A21-18047

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829167	102	17.2	< 0.1	2.7	25.4	135	17	0.5	0.18	< 0.1	< 1	< 0.1	< 0.1	47	4.3	12.0	1.8	8.6	2.4	3.8	0.7	4.8	95.8
829168	71.8	12.3	< 0.1	2.7	18.6	88.6	8	< 0.1	0.10	< 0.1	< 1	< 0.1	< 0.1	61	3.1	8.7	1.4	6.5	1.9	2.5	0.5	3.6	89.1
829169	86.6	13.4	< 0.1	23.0	22.8	88.0	22	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	795	3.6	10.4	1.6	7.6	2.5	3.4	0.6	4.4	74.1
829170	48.0	18.3	2.6	11.4	5.9	113	148	7.4	1.49	< 0.1	2	< 0.1	< 0.1	784	33.4	72.7	6.9	20.2	2.7	2.3	0.2	1.2	1.8
829171	140	16.6	1.4	16.6	25.7	86.9	27	1.4	0.71	< 0.1	< 1	< 0.1	< 0.1	327	4.7	12.9	2.0	8.8	2.9	3.8	0.7	4.8	154
829172	116	16.8	0.3	18.1	25.3	90.1	14	0.4	0.36	< 0.1	< 1	< 0.1	< 0.1	134	4.5	12.5	1.9	8.9	2.2	3.8	0.6	4.6	68.4
829173	112	15.6	0.6	22.7	24.6	73.3	27	1.4	39.2	< 0.1	< 1	< 0.1	< 0.1	222	4.4	11.9	1.8	8.1	2.5	3.6	0.6	4.4	84.7
829174	114	18.1	< 0.1	13.5	27.7	102	12	< 0.1	0.16	< 0.1	< 1	< 0.1	< 0.1	106	5.1	13.6	2.0	9.2	3.0	4.3	0.7	4.9	55.7
829175	103	16.6	2.0	2.9	24.3	103	14	0.8	0.51	< 0.1	< 1	< 0.1	< 0.1	44	4.3	12.0	1.8	8.4	2.4	3.7	0.6	4.4	96.4
829176	102	17.0	< 0.1	2.0	25.3	115	10	< 0.1	0.14	< 0.1	< 1	< 0.1	< 0.1	38	4.4	12.3	1.9	8.9	2.8	3.7	0.6	4.9	112
829177	121	16.2	< 0.1	6.8	28.0	87.8	20	0.2	0.32	< 0.1	< 1	< 0.1	< 0.1	92	4.5	12.5	2.0	9.3	2.8	4.1	0.7	4.9	132
829178	101	15.8	0.5	5.7	26.0	115	17	0.4	0.34	< 0.1	< 1	< 0.1	< 0.1	88	4.1	11.5	1.8	8.8	3.1	3.8	0.6	4.7	88.1
829179	104	16.9	< 0.1	7.9	23.8	140	23	0.2	0.23	< 0.1	< 1	< 0.1	< 0.1	135	4.9	13.1	1.9	9.1	2.5	3.6	0.6	4.5	98.1
829180	84.4	12.4	57.7	24.0	11.9	88.4	47	1.1	4.99	< 0.1	< 1	0.3	0.2	239	5.3	11.2	1.4	5.8	1.3	1.8	0.3	2.1	127
829181	112	16.4	< 0.1	9.6	26.2	112	14	0.2	0.18	< 0.1	< 1	< 0.1	< 0.1	102	4.4	12.4	1.9	9.1	2.7	3.8	0.7	5.1	85.0
829182	119	17.2	1.0	17.5	28.0	119	14	0.1	0.14	< 0.1	< 1	< 0.1	< 0.1	123	4.5	12.8	1.9	9.8	2.6	3.9	0.7	4.9	108
829183	111	16.2	< 0.1	21.1	25.9	123	13	< 0.1	0.14	< 0.1	< 1	< 0.1	< 0.1	155	4.3	11.8	1.8	8.9	2.8	3.7	0.6	4.7	105
829184	120	18.7	0.5	18.1	25.5	164	24	< 0.1	0.24	< 0.1	< 1	< 0.1	< 0.1	184	4.1	11.9	1.9	8.7	2.7	3.8	0.6	4.7	119
829185	123	16.9	0.1	24.9	26.4	238	78	4.6	1.38	< 0.1	< 1	< 0.1	0.1	324	14.5	32.8	4.1	16.7	3.3	3.9	0.7	4.6	47.7
829186	128	17.1	1.0	23.4	29.0	159	44	1.6	0.93	< 0.1	< 1	< 0.1	< 0.1	300	4.5	12.7	1.9	9.2	3.0	3.7	0.7	5.1	100
829187	770	17.9	4.3	26.0	18.4	119	23	< 0.1	0.23	0.2	< 1	0.4	< 0.1	156	5.3	13.2	1.8	8.1	2.0	3.0	0.5	3.1	228
829188	160	16.8	1.0	10.9	19.5	171	28	1.8	0.49	< 0.1	< 1	0.2	< 0.1	122	3.8	10.1	1.5	7.1	2.0	2.6	0.5	3.4	109
829189	146	17.8	< 0.1	21.3	17.0	205	14	0.1	0.20	< 0.1	< 1	0.1	< 0.1	103	4.0	10.6	1.6	7.1	2.1	2.7	0.4	3.1	73.2
829190	48.4	17.6	0.7	115	6.2	116	158	7.9	1.05	< 0.1	2	< 0.1	< 0.1	820	36.7	75.9	7.6	23.5	3.1	2.5	0.2	1.2	2.8
829191	84.5	11.8	0.9	8.9	10.0	93.8	8	0.4	3.42	< 0.1	< 1	< 0.1	< 0.1	43	2.1	5.4	0.8	3.8	1.0	1.5	0.3	1.9	18.2
829192	90.4	19.8	0.6	1.4	12.9	153	12	1.2	0.62	< 0.1	< 1	< 0.1	< 0.1	17	2.6	6.4	1.0	4.5	1.2	1.8	0.3	2.3	22.5
829193	117	14.1	< 0.1	6.2	13.6	98.0	10	0.4	0.34	< 0.1	< 1	< 0.1	< 0.1	40	2.2	6.3	1.0	4.8	1.2	2.0	0.3	2.5	39.6
829194	186	17.3	0.7	5.9	17.7	116	22	2.7	3.76	< 0.1	< 1	< 0.1	< 0.1	33	4.5	11.6	1.7	7.8	2.1	2.8	0.5	3.4	94.4
829195	72.1	21.8	< 0.1	9.3	25.8	363	10	< 0.1	0.09	< 0.1	< 1	< 0.1	< 0.1	31	5.3	14.8	2.3	10.8	3.0	4.2	0.7	4.9	153
829196	111	18.0	< 0.1	5.8	24.7	264	34	< 0.1	0.51	< 0.1	< 1	< 0.1	< 0.1	28	4.6	13.3	2.1	9.6	2.9	3.8	0.7	4.6	138
829197	118	17.1	0.2	2.2	22.9	163	39	2.2	0.27	< 0.1	< 1	< 0.1	< 0.1	22	4.2	12.2	1.9	9.2	3.0	3.4	0.6	4.1	122
829198	190	19.1	< 0.1	37.8	26.4	137	55	1.1	0.44	< 0.1	< 1	< 0.1	< 0.1	135	7.1	20.1	3.1	13.9	3.9	4.8	0.8	5.2	48.3
829199	135	20.1	0.6	18.8	30.2	228	14	0.9	0.17	< 0.1	< 1	< 0.1	< 0.1	92	6.6	18.2	2.7	13.1	3.6	4.6	0.8	5.4	99.2
829200	87.5	14.0	34.6	14.6	15.9	90.8	50	2.5	3.13	< 0.1	< 1	0.5	0.1	222	4.6	10.8	1.5	6.7	2.0	2.5	0.4	2.9	146
829201	116	20.9	< 0.1	15.9	33.7	292	7	0.2	0.13	< 0.1	< 1	< 0.1	< 0.1	113	7.5	20.7	3.2	14.5	4.4	5.3	0.9	6.0	78.5
829202	81.8	13.7	< 0.1	9.8	23.0	178	5	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	69	5.1	14.1	2.2	9.7	3.0	3.5	0.6	4.1	73.0
829203	137	21.1	2.5	8.1	33.3	265	15	4.9	0.40	< 0.1	< 1	< 0.1	< 0.1	145	6.2	18.5	3.0	13.8	3.9	5.3	0.9	6.3	38.7
829204	129	21.1	< 0.1	9.9	33.8	255	7	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	90	7.2	20.2	3.1	14.2	4.1	5.2	0.9	5.9	108
829205	130	21.7	< 0.1	22.5	34.0	233	9	< 0.1	0.06	< 0.1	< 1	< 0.1	< 0.1	146	7.6	20.8	3.2	14.8	4.6	5.3	0.9	6.1	64.4
829206	44.6	16.8	0.6	92.2	7.9	327	85	5.6	0.95	< 0.1	< 1	< 0.1	< 0.1	1100	20.8	44.7	5.0	17.0	2.8	2.0	0.3	1.3	3.3
829207	145	21.6	0.6	19.0	31.2	244	18	0.3	0.19	< 0.1	< 1	< 0.1	< 0.1	144	6.8	18.8	2.8	13.3	3.9	4.8	0.8	5.8	49.3
829208	95.4	20.4	< 0.1	41.2	10.8	395	60	< 0.1	0.08	< 0.1	< 1	< 0.1	< 0.1	786	13.6	30.8	3.8	14.0	3.2	2.5	0.3	2.1	29.7
829209	197	17.2	< 0.1	20.5	26.1	215	11	< 0.1	0.11	< 0.1	< 1	< 0.1	< 0.1	359	7.1	18.8	2.8	12.9	3.3	4.3	0.7	5.1	76.2
829210	45.6	17.1	0.4	110	6.0	104	160	6.1	1.45	< 0.1	2	< 0.1	< 0.1	815	32.9	79.3	7.2	21.5	3.5	2.5	0.2	1.1	3.6
829211	158	17.7	0.6	12.7	25.5	187	16	0.8	0.29	0.1	1	< 0.1	< 0.1	211	5.6	15.8	2.3	10.9	3.4	4.4	0.7	4.8	118
829212	104	15.5	< 0.1	8.2	17.6	177	7	0.1	0.23	< 0.1	< 1	< 0.1	< 0.1	323	2.8	7.7	1.2	5.7	1.7	2.5	0.4	3.2	98.9
829213	91.3	14.8	< 0.1	18.2	16.7	175	9	< 0.1	0.15	< 0.1	< 1	< 0.1	< 0.1	328	2.8	7.6	1.2	5.6	1.8	2.5	0.4	3.1	85.7
829214	103	16.6	0.9	15.5	18.0	182	11	0.4	0.33	< 0.1	< 1	< 0.1	< 0.1	294	2.8	8.1	1.3	6.4	1.8	2.5	0.5	3.4	125
829215	138	18.2	< 0.1	29.6	19.9	200	14	0.4	0.66	< 0.1	< 1	< 0.1	< 0.1	357	3.2	8.8	1.3	6.7	1.8	3.1	0.5	4.0	89.3

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
829065	0.3	0.2	1.5	0.2	< 0.1	< 0.1	< 0.001	0.07	1.6	37	< 0.1	< 0.1	0.247	0.015	0.01
829066	0.5	0.2	1.4	0.2	< 0.1	< 0.1	< 0.001	< 0.05	2.5	34	< 0.1	< 0.1	0.233	0.015	0.02
829067	0.8	0.2	1.5	0.2	< 0.1	0.2	< 0.001	< 0.05	2.5	38	0.1	< 0.1	0.343	0.016	0.08
829068	0.5	0.2	1.4	0.2	< 0.1	< 0.1	< 0.001	0.10	2.7	35	< 0.1	< 0.1	0.252	0.016	0.09
829069	< 0.1	0.3	1.8	0.3	0.3	0.3	< 0.001	0.48	12.7	12	6.5	1.6	0.321	0.140	0.25
829070	< 0.1	< 0.1	0.5	< 0.1	0.4	< 0.1	< 0.001	0.66	16.8	2	11.6	0.7	0.122	0.020	< 0.01
829071	0.2	0.2	1.4	0.2	< 0.1	0.4	< 0.001	0.27	2.5	36	0.2	< 0.1	0.334	0.017	0.19
829072	< 0.1	< 0.1	0.6	< 0.1	0.2	0.6	< 0.001	0.32	3.5	5	2.1	0.6	0.157	0.046	0.57
829073	< 0.1	0.1	0.7	0.1	0.2	1.0	< 0.001	0.27	2.3	6	2.4	0.6	0.181	0.047	0.59
829074	0.1	0.2	1.2	0.2	0.1	0.4	< 0.001	0.23	3.0	16	1.8	0.5	0.294	0.036	0.47
829075	0.5	0.3	1.8	0.3	0.1	0.3	< 0.001	0.08	2.2	32	0.3	< 0.1	0.445	0.032	0.09
829076	< 0.1	< 0.1	0.4	< 0.1	< 0.1	< 0.1	< 0.001	0.23	5.5	6	2.5	0.8	0.234	0.054	0.06
829077	0.3	< 0.1	0.6	< 0.1	< 0.1	< 0.1	< 0.001	0.15	4.6	8	2.0	0.6	0.203	0.047	0.09
829078	0.4	0.2	1.5	0.2	< 0.1	0.3	< 0.001	< 0.05	2.0	28	0.2	< 0.1	0.363	0.022	0.08
829079	0.3	0.2	1.5	0.2	0.1	0.4	< 0.001	< 0.05	1.4	25	0.2	< 0.1	0.350	0.024	0.09
829080	0.1	0.2	1.3	0.2	0.2	11.3	< 0.001	0.16	34.1	24	1.5	0.4	0.303	0.029	0.73
829081	0.6	0.2	1.5	0.2	< 0.1	< 0.1	< 0.001	< 0.05	1.1	33	0.2	< 0.1	0.314	0.021	0.06
829082	0.4	0.2	1.4	0.2	< 0.1	< 0.1	< 0.001	< 0.05	1.1	28	0.2	< 0.1	0.164	0.017	0.07
829083	0.6	0.2	1.6	0.3	< 0.1	< 0.1	< 0.001	< 0.05	1.4	32	0.2	< 0.1	0.311	0.020	0.04
829084	0.5	0.3	2.1	0.3	< 0.1	< 0.1	< 0.001	0.06	2.9	39	0.3	< 0.1	0.386	0.025	0.13
829085	< 0.1	0.3	1.9	0.3	< 0.1	< 0.1	< 0.001	0.23	3.3	35	1.0	0.2	0.220	0.042	0.25
829086	< 0.1	0.3	1.9	0.3	< 0.1	0.1	< 0.001	0.35	4.6	27	3.2	0.6	0.490	0.068	0.64
829087	< 0.1	0.2	1.3	0.2	0.2	0.6	< 0.001	0.49	4.8	21	3.8	0.9	0.399	0.113	0.41
829088	0.4	0.3	2.1	0.3	< 0.1	< 0.1	< 0.001	< 0.05	3.1	35	0.3	< 0.1	0.253	0.027	0.29
829089	0.2	0.3	1.8	0.3	< 0.1	0.1	< 0.001	0.24	2.7	31	0.3	0.1	0.373	0.026	0.37
829090	< 0.1	< 0.1	0.5	< 0.1	0.4	< 0.1	< 0.001	0.65	16.2	2	11.0	0.8	0.119	0.020	< 0.01
829091	< 0.1	0.2	1.5	0.2	< 0.1	0.2	< 0.001	0.11	1.7	29	0.3	< 0.1	0.366	0.022	0.17
829092	< 0.1	0.2	1.4	0.2	< 0.1	0.4	< 0.001	< 0.05	1.7	27	0.2	< 0.1	0.352	0.019	0.06
829093	0.5	0.4	2.4	0.4	0.2	0.6	< 0.001	< 0.05	2.0	43	0.3	< 0.1	0.607	0.036	0.22
829094	0.3	0.4	2.6	0.4	0.2	0.9	< 0.001	0.06	2.4	40	0.4	0.1	0.572	0.031	0.31
829095	0.2	0.4	2.7	0.4	< 0.1	< 0.1	0.001	< 0.05	1.5	44	0.4	< 0.1	0.125	0.031	0.24
829096	0.3	0.4	2.4	0.4	< 0.1	< 0.1	0.001	0.05	1.4	42	0.3	< 0.1	0.344	0.032	0.28
829097	0.3	0.3	1.9	0.3	0.1	0.2	< 0.001	0.21	4.7	20	1.6	0.4	0.352	0.083	0.06
829098	< 0.1	< 0.1	0.6	< 0.1	0.1	2.4	0.001	0.20	4.4	6	2.2	0.6	0.203	0.045	0.28
829099	< 0.1	0.1	0.7	0.1	0.3	0.7	0.001	0.42	10.2	6	2.5	0.9	0.193	0.045	0.65
829100	0.4	0.3	2.0	0.3	0.3	2.3	0.003	0.14	10.4	18	3.6	1.4	0.534	0.213	2.99
829101	< 0.1	< 0.1	0.7	0.1	0.3	2.0	0.002	0.29	9.0	5	3.3	1.2	0.177	0.042	0.76
829102	0.2	0.2	1.6	0.2	0.1	0.9	< 0.001	0.35	5.8	29	0.4	0.1	0.390	0.024	0.43
829103	0.3	0.2	1.7	0.2	< 0.1	1.0	< 0.001	0.42	5.4	32	0.2	< 0.1	0.388	0.026	0.54
829104	< 0.1	0.1	1.0	0.1	< 0.1	0.4	< 0.001	0.28	5.5	19	0.1	< 0.1	0.234	0.008	0.59
829105	0.3	0.3	2.0	0.3	< 0.1	0.1	< 0.001	0.12	2.7	34	0.2	< 0.1	0.423	0.028	0.20
829106	0.4	0.3	1.8	0.3	< 0.1	0.2	0.001	0.16	2.5	31	0.6	0.1	0.433	0.041	0.12
829107	0.2	0.2	1.3	0.2	0.2	0.2	< 0.001	0.41	8.4	19	4.8	0.9	0.541	0.147	0.49
829108	0.2	0.2	1.7	0.2	0.2	0.4	< 0.001	0.17	3.7	30	1.2	0.3	0.483	0.060	0.17
829109	0.4	0.3	2.0	0.3	0.1	0.4	< 0.001	0.08	2.2	34	0.3	< 0.1	0.440	0.024	0.15
829110	0.2	< 0.1	0.6	< 0.1	< 0.1	< 0.1	< 0.001	0.68	16.1	3	12.0	0.7	0.118	0.020	< 0.01
829111	0.6	0.3	1.9	0.2	0.1	0.4	0.002	0.11	3.3	33	0.3	0.1	0.447	0.024	0.13
829112	0.5	0.2	1.2	0.2	< 0.1	< 0.1	0.001	0.37	35.0	23	0.7	0.6	0.287	0.015	0.50
829113	0.7	0.3	2.2	0.3	< 0.1	< 0.1	< 0.001	0.38	10.3	37	0.3	0.2	0.407	0.024	0.31
829114	0.3	0.3	1.9	0.3	0.2	0.2	0.002	0.34	7.8	29	1.7	2.1	0.368	0.027	0.31
829115	0.2	0.2	1.7	0.2	0.1	0.5	0.006	0.17	4.7	31	0.3	< 0.1	0.424	0.024	0.30

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
829116	0.4	0.3	2.0	0.3	0.1	0.3	0.002	0.11	3.2	35	0.3	0.1	0.474	0.027	0.26
829117	1.0	0.4	2.7	0.4	0.1	0.2	0.001	0.06	1.5	38	0.4	0.1	0.533	0.046	0.09
829118	0.2	0.3	2.1	0.3	< 0.1	< 0.1	0.001	< 0.05	1.5	32	0.4	0.1	0.159	0.035	0.16
829119	0.3	0.4	2.6	0.4	< 0.1	< 0.1	0.001	0.10	2.5	35	1.5	0.3	0.233	0.060	0.13
829120	0.4	0.2	1.4	0.2	< 0.1	6.5	0.003	0.19	35.6	24	1.6	0.4	0.309	0.030	0.75
829121	0.3	0.4	2.8	0.4	< 0.1	< 0.1	0.001	< 0.05	0.9	39	0.4	< 0.1	0.326	0.039	0.09
829122	0.3	0.4	3.0	0.4	< 0.1	< 0.1	0.002	< 0.05	1.0	39	0.4	< 0.1	0.395	0.044	0.12
829123	0.3	0.4	2.9	0.4	< 0.1	0.6	0.001	< 0.05	0.8	38	0.4	0.1	0.264	0.045	0.20
829124	0.2	0.3	2.4	0.3	< 0.1	< 0.1	0.001	< 0.05	1.6	30	0.3	< 0.1	0.201	0.041	0.14
829125	0.2	0.4	2.8	0.4	< 0.1	< 0.1	0.001	< 0.05	1.2	40	0.4	< 0.1	0.335	0.041	0.07
829126	0.3	0.4	2.7	0.4	< 0.1	< 0.1	0.001	0.07	2.1	35	1.0	0.2	0.350	0.054	0.14
829127	0.4	0.4	2.6	0.4	< 0.1	< 0.1	< 0.001	0.05	1.6	38	0.4	0.1	0.521	0.046	0.09
829128	0.3	0.3	1.9	0.3	< 0.1	< 0.1	0.001	0.20	6.3	25	3.9	0.8	0.426	0.110	0.23
829129	0.2	0.4	2.6	0.4	< 0.1	< 0.1	0.001	0.09	1.6	34	0.7	0.2	0.176	0.057	0.08
829130	< 0.1	< 0.1	0.5	< 0.1	0.5	< 0.1	< 0.001	0.65	16.0	2	10.6	0.6	0.129	0.020	< 0.01
829131	0.3	0.4	2.5	0.4	< 0.1	< 0.1	< 0.001	0.06	0.9	37	0.4	< 0.1	0.266	0.033	0.10
829132	0.3	0.4	2.6	0.4	< 0.1	< 0.1	0.001	< 0.05	0.8	37	0.4	< 0.1	0.388	0.040	0.09
829133	0.2	0.4	2.8	0.4	< 0.1	< 0.1	< 0.001	< 0.05	1.1	38	0.4	0.1	0.257	0.038	0.08
829134	0.4	0.4	3.0	0.5	< 0.1	< 0.1	0.003	0.11	1.0	39	0.5	0.1	0.323	0.039	1.08
829135	0.5	0.4	2.9	0.4	< 0.1	< 0.1	0.008	0.13	1.9	37	0.4	0.1	0.428	0.047	0.15
829136	0.5	0.5	3.2	0.4	< 0.1	< 0.1	0.001	0.09	1.2	39	0.4	0.1	0.499	0.044	0.11
829137	0.3	0.4	3.1	0.5	< 0.1	0.3	0.002	0.07	1.2	40	0.4	< 0.1	0.312	0.041	0.09
829138	0.8	0.4	2.8	0.4	0.2	0.3	0.001	< 0.05	1.0	39	0.4	< 0.1	0.589	0.046	0.12
829139	0.2	0.4	2.6	0.4	< 0.1	< 0.1	0.001	< 0.05	0.7	40	0.3	< 0.1	0.237	0.035	0.06
829140	0.2	0.3	1.8	0.3	< 0.1	< 0.1	0.002	0.10	19.1	34	0.9	0.2	0.234	0.033	0.46
829141	0.3	0.4	2.6	0.4	< 0.1	< 0.1	0.001	< 0.05	2.2	35	1.1	0.2	0.381	0.058	0.17
829142	0.5	0.4	2.9	0.4	< 0.1	< 0.1	0.002	0.06	1.5	39	0.4	< 0.1	0.480	0.044	0.26
829143	0.2	0.4	2.6	0.4	< 0.1	< 0.1	0.001	< 0.05	1.4	39	0.3	< 0.1	0.309	0.037	0.06
829144	0.4	0.4	2.7	0.4	< 0.1	< 0.1	0.001	< 0.05	1.6	39	0.4	< 0.1	0.463	0.044	0.07
829145	0.3	0.4	2.8	0.4	< 0.1	< 0.1	0.001	< 0.05	1.0	38	0.4	< 0.1	0.240	0.041	0.13
829146	0.8	0.4	2.7	0.4	< 0.1	< 0.1	0.001	< 0.05	0.7	38	0.4	< 0.1	0.496	0.045	0.07
829147	0.3	0.4	2.8	0.4	< 0.1	< 0.1	0.001	< 0.05	1.0	39	0.4	< 0.1	0.279	0.038	0.12
829148	0.3	0.4	2.7	0.4	< 0.1	< 0.1	0.001	0.12	2.2	38	0.4	< 0.1	0.280	0.040	0.08
829149	< 0.1	< 0.1	0.5	< 0.1	< 0.1	0.1	< 0.001	0.18	4.8	6	2.2	0.7	0.190	0.037	0.03
829150	< 0.1	< 0.1	0.5	< 0.1	0.2	< 0.1	< 0.001	0.67	15.4	2	11.1	0.7	0.132	0.020	< 0.01
829151	0.5	0.4	2.5	0.4	< 0.1	< 0.1	0.004	0.07	1.9	35	0.4	0.2	0.432	0.043	0.19
829152	0.2	0.4	2.7	0.4	< 0.1	< 0.1	0.001	< 0.05	1.0	38	0.4	< 0.1	0.384	0.040	0.07
829153	0.4	0.4	2.4	0.3	< 0.1	< 0.1	0.001	< 0.05	1.7	35	0.7	0.2	0.244	0.040	0.09
829154	< 0.1	0.4	2.6	0.4	< 0.1	< 0.1	0.001	< 0.05	1.3	34	1.0	0.2	0.122	0.054	0.10
829155	0.2	0.4	2.8	0.4	< 0.1	< 0.1	0.001	< 0.05	1.2	39	0.4	0.1	0.172	0.042	0.08
829156	< 0.1	0.2	1.2	0.2	< 0.1	< 0.1	< 0.001	0.12	4.7	16	2.0	0.6	0.175	0.046	0.05
829157	0.3	0.3	2.4	0.4	< 0.1	< 0.1	< 0.001	0.07	2.9	29	1.0	0.3	0.202	0.067	0.08
829158	0.3	0.4	3.0	0.4	< 0.1	< 0.1	0.001	0.08	2.1	37	0.4	0.1	0.473	0.046	0.11
829159	0.6	0.5	3.3	0.5	< 0.1	0.1	0.001	0.06	2.2	42	0.4	0.1	0.520	0.044	0.24
829160	0.3	0.3	2.1	0.3	< 0.1	1.5	0.003	0.13	10.0	18	3.5	1.4	0.388	0.205	2.96
829161	0.1	0.5	3.5	0.5	< 0.1	< 0.1	0.002	0.09	2.6	39	0.5	0.1	0.133	0.042	0.22
829162	0.6	0.4	3.1	0.4	< 0.1	< 0.1	0.001	< 0.05	0.8	38	0.4	< 0.1	0.481	0.047	0.06
829163	0.2	0.4	3.0	0.4	< 0.1	< 0.1	0.001	< 0.05	0.8	37	0.4	< 0.1	0.129	0.049	0.15
829164	0.1	0.4	3.0	0.4	< 0.1	< 0.1	0.001	< 0.05	0.6	42	0.4	< 0.1	0.119	0.047	0.13
829165	0.2	0.4	3.0	0.4	< 0.1	< 0.1	< 0.001	< 0.05	0.6	40	0.4	< 0.1	0.417	0.041	0.12
829166	0.3	0.4	3.0	0.4	< 0.1	< 0.1	0.001	0.06	0.6	43	0.4	< 0.1	0.493	0.045	0.15

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
829167	0.2	0.4	3.0	0.4	< 0.1	< 0.1	0.001	< 0.05	0.5	37	0.4	< 0.1	0.386	0.045	0.07
829168	0.2	0.3	2.2	0.3	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	31	0.3	< 0.1	0.174	0.035	0.07
829169	0.4	0.4	2.8	0.4	< 0.1	< 0.1	< 0.001	0.10	0.6	37	0.3	< 0.1	0.345	0.048	0.10
829170	< 0.1	< 0.1	0.5	< 0.1	0.3	< 0.1	< 0.001	0.67	15.2	2	10.7	0.6	0.131	0.020	< 0.01
829171	0.5	0.4	2.9	0.4	< 0.1	< 0.1	0.002	0.07	0.7	37	0.4	0.1	0.453	0.043	0.27
829172	0.3	0.4	2.9	0.4	< 0.1	< 0.1	0.001	< 0.05	0.6	37	0.4	0.1	0.362	0.037	0.05
829173	0.4	0.4	2.9	0.4	< 0.1	< 0.1	0.011	0.06	0.7	39	0.4	< 0.1	0.469	0.036	0.09
829174	0.2	0.5	3.3	0.5	< 0.1	< 0.1	0.001	< 0.05	0.7	41	0.5	0.1	0.187	0.041	0.05
829175	0.4	0.4	2.8	0.4	< 0.1	< 0.1	0.002	< 0.05	0.7	37	0.4	< 0.1	0.461	0.042	0.07
829176	0.2	0.4	3.0	0.4	< 0.1	< 0.1	0.001	< 0.05	0.7	39	0.4	0.2	0.210	0.037	0.07
829177	0.4	0.4	3.1	0.5	< 0.1	< 0.1	0.001	< 0.05	0.8	39	0.4	< 0.1	0.338	0.035	0.13
829178	0.3	0.4	2.9	0.4	< 0.1	< 0.1	0.001	< 0.05	1.0	38	0.4	0.1	0.349	0.039	0.09
829179	0.4	0.4	2.9	0.4	< 0.1	< 0.1	0.001	< 0.05	1.6	36	0.5	0.1	0.291	0.042	0.10
829180	0.2	0.2	1.4	0.2	< 0.1	6.1	0.003	0.18	34.2	25	1.5	0.4	0.312	0.031	0.76
829181	0.4	0.5	3.1	0.4	< 0.1	< 0.1	0.001	< 0.05	1.3	39	0.4	0.1	0.269	0.039	0.08
829182	0.4	0.5	3.3	0.5	< 0.1	< 0.1	0.001	0.07	1.4	43	0.4	0.1	0.239	0.038	0.11
829183	0.4	0.4	3.0	0.4	< 0.1	< 0.1	0.001	0.09	1.3	40	0.4	< 0.1	0.258	0.036	0.13
829184	0.3	0.4	3.0	0.4	< 0.1	< 0.1	0.002	0.09	1.9	49	0.4	< 0.1	0.231	0.045	0.16
829185	0.4	0.4	3.0	0.5	0.2	0.2	< 0.001	0.12	2.9	34	1.4	0.4	0.387	0.074	0.17
829186	0.4	0.5	3.3	0.5	< 0.1	0.1	0.002	0.16	2.4	44	0.4	< 0.1	0.557	0.052	0.70
829187	0.3	0.3	2.1	0.3	< 0.1	< 0.1	0.002	0.18	4.4	32	0.6	0.1	0.238	0.034	0.19
829188	1.2	0.3	2.2	0.3	< 0.1	0.4	< 0.001	0.08	2.7	34	0.3	< 0.1	0.461	0.034	0.05
829189	0.3	0.3	1.9	0.3	< 0.1	< 0.1	0.002	0.12	3.5	34	0.4	0.1	0.279	0.028	0.03
829190	< 0.1	< 0.1	0.6	< 0.1	0.4	< 0.1	< 0.001	0.68	16.0	2	11.6	0.7	0.130	0.020	< 0.01
829191	0.5	0.2	1.1	0.1	< 0.1	< 0.1	0.004	0.05	2.3	23	0.2	< 0.1	0.226	0.018	0.01
829192	0.6	0.2	1.4	0.2	< 0.1	0.4	< 0.001	< 0.05	3.4	27	0.2	< 0.1	0.311	0.018	0.01
829193	0.2	0.2	1.5	0.2	< 0.1	< 0.1	0.001	0.06	5.7	29	0.2	< 0.1	0.228	0.017	0.01
829194	0.3	0.3	2.0	0.3	0.2	0.9	0.002	< 0.05	2.9	31	0.4	0.1	0.449	0.038	0.16
829195	0.3	0.4	3.1	0.4	< 0.1	< 0.1	0.002	0.06	1.5	38	0.5	0.1	0.147	0.045	0.15
829196	0.9	0.4	2.9	0.4	< 0.1	< 0.1	0.002	0.06	1.5	39	0.4	0.1	0.419	0.038	0.04
829197	0.4	0.4	2.6	0.4	0.1	< 0.1	0.001	< 0.05	1.9	39	0.4	< 0.1	0.520	0.036	0.03
829198	0.3	0.4	2.9	0.4	< 0.1	< 0.1	< 0.001	0.26	4.3	35	1.1	0.6	0.513	0.053	0.10
829199	0.3	0.5	3.4	0.5	< 0.1	< 0.1	0.001	0.17	5.4	31	0.7	0.4	0.278	0.059	0.30
829200	0.3	0.3	1.9	0.3	0.1	3.5	0.002	0.11	19.9	33	0.9	0.3	0.457	0.035	0.46
829201	0.2	0.5	3.8	0.5	< 0.1	< 0.1	< 0.001	0.15	4.6	34	0.7	0.3	0.175	0.072	0.25
829202	< 0.1	0.4	2.6	0.4	< 0.1	< 0.1	< 0.001	0.08	2.6	24	0.4	0.1	0.182	0.046	0.20
829203	1.2	0.5	3.9	0.5	0.3	0.3	< 0.001	0.15	4.0	33	0.5	0.2	0.687	0.075	0.08
829204	< 0.1	0.6	3.8	0.5	< 0.1	< 0.1	0.002	0.10	3.6	33	0.6	0.2	0.122	0.070	0.24
829205	0.2	0.5	3.9	0.6	< 0.1	< 0.1	0.001	0.19	3.9	34	1.0	0.5	0.141	0.065	0.19
829206	< 0.1	0.1	0.8	0.1	0.3	0.6	< 0.001	0.60	18.0	2	5.7	2.5	0.0702	0.015	0.07
829207	0.2	0.5	3.5	0.5	< 0.1	< 0.1	< 0.001	0.17	3.3	32	0.6	0.2	0.295	0.061	0.10
829208	0.1	0.2	1.2	0.2	< 0.1	< 0.1	< 0.001	0.33	6.8	11	2.1	0.6	0.158	0.052	0.14
829209	0.1	0.4	2.9	0.4	< 0.1	< 0.1	0.003	0.18	4.0	27	0.6	0.4	0.148	0.063	0.34
829210	< 0.1	< 0.1	0.6	< 0.1	0.2	< 0.1	< 0.001	0.69	15.7	2	11.9	0.7	0.137	0.021	< 0.01
829211	0.2	0.4	2.9	0.4	< 0.1	< 0.1	0.004	0.10	3.8	32	0.5	0.1	0.375	0.066	0.51
829212	0.2	0.3	1.9	0.3	< 0.1	< 0.1	< 0.001	0.07	2.9	41	0.3	< 0.1	0.296	0.026	0.14
829213	0.3	0.3	2.0	0.3	< 0.1	< 0.1	< 0.001	0.13	2.8	39	0.2	< 0.1	0.304	0.029	0.12
829214	0.3	0.3	2.2	0.3	< 0.1	< 0.1	< 0.001	0.11	2.9	42	0.3	< 0.1	0.412	0.030	0.18
829215	0.5	0.3	2.4	0.3	< 0.1	0.5	< 0.001	0.20	3.9	48	0.3	< 0.1	0.475	0.027	0.11

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Oreas 72a (4 Acid) Meas										219		9.83		> 5000						159			
Oreas 72a (4 Acid) Cert										228		9.63		6930.00						157			
Oreas 72a (4 Acid) Meas										152		9.56		> 5000						148			
Oreas 72a (4 Acid) Cert										228		9.63		6930.00						157			
Oreas 72a (4 Acid) Meas										148		9.79		> 5000						149			
Oreas 72a (4 Acid) Cert										228		9.63		6930.00						157			
Oreas 72a (4 Acid) Meas										149		8.75		> 5000						143			
Oreas 72a (4 Acid) Cert										228		9.63		6930.00						157			
Oreas 72a (4 Acid) Meas										149		9.54		> 5000						153			
Oreas 72a (4 Acid) Cert										228		9.63		6930.00						157			
OREAS 101b (4 Acid) Meas				1.26		2.32			76		878	10.6		8.5	14.4		4.8			43.4	7.69		
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7		8.2	15		5.2			45	8.1		
OREAS 101b (4 Acid) Meas				1.22		2.38			78		936	10.9		10.0	13.8		5.0			45.6	6.97		
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7		8.2	15		5.2			45	8.1		
OREAS 101b (4 Acid) Meas				1.18		2.41			77		915	11.0		9.3	14.0		4.9			45.1	6.84		
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7		8.2	15		5.2			45	8.1		
OREAS 101b (4 Acid) Meas				1.25		2.65			79		920	10.7		10.0	14.5		5.1			43.8	7.39		
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7		8.2	15		5.2			45	8.1		
OREAS 101b (4 Acid) Meas				1.25		1.75			68		924	10.6		8.3	15.0		5.1			45.1	7.69		
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7		8.2	15		5.2			45	8.1		
OREAS 101b (4 Acid) Meas				1.21		2.66			69		923	10.8		8.7	15.0		5.2			45.5	7.59		
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7		8.2	15		5.2			45	8.1		
OREAS 98 (4 Acid) Meas																		48.8		120		98.7	177
OREAS 98 (4 Acid) Cert																		45.1		121		97.2	158
OREAS 98 (4 Acid) Meas																		44.8		119		83.1	168
OREAS 98 (4 Acid) Cert																		45.1		121		97.2	158
OREAS 98 (4 Acid) Meas																		46.8		129		97.7	188
OREAS 98 (4 Acid) Cert																		45.1		121		97.2	158
OREAS 98 (4 Acid) Meas																		43.3		115		103	164

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 98 (4 Acid) Cert																		45.1		121		97.2	158
OREAS 98 (4 Acid) Meas																		45.9		118		99.2	170
OREAS 98 (4 Acid) Cert																		45.1		121		97.2	158
OREAS 13b (4-Acid) Meas										> 5000				2240				0.92		79.0			
OREAS 13b (4-Acid) Cert										8650.000				2247.000				0.86		75			
OREAS 13b (4-Acid) Meas										> 5000				2200				0.92		74.5			
OREAS 13b (4-Acid) Cert										8650.000				2247.000				0.86		75			
OREAS 13b (4-Acid) Meas										> 5000				2140				0.89		76.1			
OREAS 13b (4-Acid) Cert										8650.000				2247.000				0.86		75			
OREAS 13b (4-Acid) Meas										> 5000				2370				0.88		75.9			
OREAS 13b (4-Acid) Cert										8650.000				2247.000				0.86		75			
OREAS 904 (4 Acid) Meas		17.8	0.04	0.69	6.97	3.33	0.04		82	52	420	6.91	0.4	42.1		8.9		0.56	3.76	85.5		4.12	2.3
OREAS 904 (4 Acid) Cert		16.7	0.0340	0.556	6.30	3.31	0.0460		76.0	54.0	410	6.68	5.00	40.1		7.86		0.551	3.79	83.0		4.05	3.30
OREAS 904 (4 Acid) Meas		15.2	0.04	0.62	6.99	2.97	0.05		83	58	429	7.19	0.2	46.0		10.3		0.60	3.82	85.5		4.18	1.0
OREAS 904 (4 Acid) Cert		16.7	0.0340	0.556	6.30	3.31	0.0460		76.0	54.0	410	6.68	5.00	40.1		7.86		0.551	3.79	83.0		4.05	3.30
OREAS 904 (4 Acid) Meas		16.6	0.03	0.59	6.55	2.16	0.05		71	54	416	6.64	0.2	39.9		8.8		0.55	3.71	84.9		4.22	1.8
OREAS 904 (4 Acid) Cert		16.7	0.0340	0.556	6.30	3.31	0.0460		76.0	54.0	410	6.68	5.00	40.1		7.86		0.551	3.79	83.0		4.05	3.30
OREAS 904 (4 Acid) Meas		17.7	0.04	0.60	6.87	4.01	0.05		75	80	435	7.27	4.9	41.3		8.9		0.59	3.77	87.3		4.19	2.1
OREAS 904 (4 Acid) Cert		16.7	0.0340	0.556	6.30	3.31	0.0460		76.0	54.0	410	6.68	5.00	40.1		7.86		0.551	3.79	83.0		4.05	3.30
OREAS 45d (4-Acid) Meas		23.6	0.09	0.26	7.38	0.41	0.17		158	551	512	15.0	3.1	233	1.4	0.7	0.5		3.97	30.6	0.68	0.32	
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830	231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31	
OREAS 45d (4-Acid) Meas		21.9	0.09	0.23	7.84	0.45	0.17		84	441	456	13.9	1.0	216	1.4	0.7	0.5		3.70	28.2	0.61	0.31	
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830	231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31	
OREAS 45d (4-Acid) Meas		22.5	0.10	0.22	8.20	0.46	0.18		205	556	507	15.0	4.0	232	1.5	0.7	0.5		3.87	30.3	0.63	0.33	
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830	231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31	
OREAS 96 (4 Acid) Meas																		12.1		52.3		28.1	44.5
OREAS 96 (4 Acid) Cert																		11.5		49.9		26.3	40.7
OREAS 96 (4 Acid) Meas																		10.9		48.4		27.6	40.4
OREAS 96 (4 Acid) Cert																		11.5		49.9		26.3	40.7

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 96 (4 Acid) Meas																		11.2		49.6		28.6	42.2
OREAS 96 (4 Acid) Cert																		11.5		49.9		26.3	40.7
OREAS 923 (4 Acid) Meas		33.5	0.36	1.84	7.78	2.90	0.48	0.3	86	68	977	6.62	3.6	36.3	2.8	2.4	1.0	1.59	6.68	23.1	1.33	22.5	5.8
OREAS 923 (4 Acid) Cert		31.4	0.324	1.69	7.29	2.51	0.473	0.420	91.0	71.0	950	6.43	3.42	35.8	2.86	2.42	0.960	1.60	6.70	23.1	1.37	21.4	6.54
OREAS 923 (4 Acid) Meas		33.9	0.34	1.81	7.99	2.31	0.47	0.4	87	59	952	6.68	3.7	34.9	2.9	2.4	1.0	2.05	6.55	23.8	1.36	21.1	5.2
OREAS 923 (4 Acid) Cert		31.4	0.324	1.69	7.29	2.51	0.473	0.420	91.0	71.0	950	6.43	3.42	35.8	2.86	2.42	0.960	1.60	6.70	23.1	1.37	21.4	6.54
OREAS 923 (4 Acid) Meas																							
OREAS 923 (4 Acid) Cert																							
OREAS 621 (4 Acid) Meas		14.7	1.44	0.54	5.73	2.30	1.96	264	39	49	564	3.84	4.2	26.9		1.7		62.8	3.27	30.2		4.09	5.5
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41	26.2		1.69		69.0	3.28	29.3		3.93	5.64
OREAS 621 (4 Acid) Meas		14.0	1.07	0.36	4.71	2.04	1.76	298	32	52	503	3.45	4.0	25.1		1.4		61.1	3.02	29.5		3.72	5.1
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41	26.2		1.69		69.0	3.28	29.3		3.93	5.64
OREAS 621 (4 Acid) Meas		15.1	1.21	0.41	4.91	2.18	1.84	312	35	33	506	3.69	3.8	26.9		1.6		65.1	3.32	30.6		3.96	5.3
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41	26.2		1.69		69.0	3.28	29.3		3.93	5.64
OREAS 621 (4 Acid) Meas		13.3	1.32	0.53	5.83	2.20	1.97	298	35	28	495	3.62	4.0	26.7		1.7		62.3	3.20	26.9		4.22	3.4
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41	26.2		1.69		69.0	3.28	29.3		3.93	5.64
OREAS 621 (4 Acid) Meas		14.5	1.28	0.50	5.88	1.85	1.94	295	31	26	520	3.72	3.8	24.3		1.7		63.2	3.30	28.4		4.08	3.7
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41	26.2		1.69		69.0	3.28	29.3		3.93	5.64
Oreas 77b (4 Acid) Meas		16.3	0.33	2.35	1.54	0.33	2.87	1.4	32	253	709	29.0	1.1	> 5000		0.5		1.75	2.43	> 500		3.38	
Oreas 77b (4 Acid) Cert		18.8	0.434	2.59	1.94	0.361	3.06	1.20	33.6	280	640	29.9	1.15	113000		0.470		1.62	2.32	1550		3.44	
Oreas 77b (4 Acid) Meas		14.9	0.38	2.20	1.77	0.34	3.06	1.4	28	232	703	32.5	1.2	> 5000		0.2		1.72	2.32	> 500		3.55	
Oreas 77b (4 Acid) Cert		18.8	0.434	2.59	1.94	0.361	3.06	1.20	33.6	280	640	29.9	1.15	113000		0.470		1.62	2.32	1550		3.44	
Oreas 77b (4 Acid) Meas		18.0	0.38	2.33	1.83	0.36	2.68	1.2	28	231	619	27.0	1.1	> 5000		0.5		1.53	2.13	> 500		3.57	
Oreas 77b (4 Acid) Cert		18.8	0.434	2.59	1.94	0.361	3.06	1.20	33.6	280	640	29.9	1.15	113000		0.470		1.62	2.32	1550		3.44	
Oreas 77b (4 Acid) Meas		17.7	0.39	2.31	1.74	0.34	2.66	1.1	28	228	601	26.9	1.1	> 5000		0.4		1.50	2.13	> 500		3.43	
Oreas 77b (4 Acid) Cert		18.8	0.434	2.59	1.94	0.361	3.06	1.20	33.6	280	640	29.9	1.15	113000		0.470		1.62	2.32	1550		3.44	
OREAS 228b (Fire Assay) Meas	8450																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8590																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8630																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8690																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8900																						
OREAS 228b (Fire Assay) Cert	8570																						
Oreas E1336 (Fire Assay) Meas	494																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	506																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	505																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	508																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	512																						
Oreas E1336 (Fire Assay) Cert	510																						
OREAS 681 (4 Acid) Meas		12.8	1.55	5.04	7.68	1.43	5.88		268	1570	1290	7.28	1.8	460	1.8	1.3	0.7	0.16	3.80	48.7	1.30	0.09	
OREAS 681 (4 Acid) Cert		13.0	1.61	5.19	7.91	1.35	5.98		253	1640	1310	7.47	1.70	503	1.97	1.41	0.690	0.118	4.02	51.0	1.37	0.0980	
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 247 (4 Acid) Meas		32.2	0.49	1.40	6.05	2.61	0.81	< 0.1	71	83	353	3.21	3.3	43.8	1.9	2.2	0.6	2.16	8.17	12.7	0.98	0.59	
OREAS 247 (4 Acid) Cert		31.8	0.499	1.22	6.08	2.45	0.826	0.0650	82.0	97.0	360	3.32	3.57	45.9	1.49	2.23	0.540	2.16	8.49	12.0	0.960	0.580	
OREAS 147 (4 Acid) Meas		> 400	0.96	0.46	5.05	1.68	1.07		53	42	386	3.21	0.5	22.2	2.4	32.5			> 100	7.4	9.63	13.0	
OREAS 147 (4 Acid) Cert		2260	0.948	0.535	4.90	1.60	1.09		60.0	57.0	390	3.23	2.99	21.2	3.00	31.2			238	6.90	10.4	12.5	
OREAS 147 (4 Acid) Meas		> 400	0.91	0.55	5.09	1.74	1.07		48	36	359	3.09	0.6	21.1	2.5	32.6			> 100	6.2	9.89	12.8	
OREAS 147 (4 Acid) Cert		2260	0.948	0.535	4.90	1.60	1.09		60.0	57.0	390	3.23	2.99	21.2	3.00	31.2			238	6.90	10.4	12.5	

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 147 (4 Acid) Meas		> 400	1.03	0.58	5.33	1.93	1.17		41	62	399	3.34	1.8	21.9	2.7	36.0			> 100	6.9	10.2	13.3	
OREAS 147 (4 Acid) Cert		2260	0.948	0.535	4.90	1.60	1.09		60.0	57.0	390	3.23	2.99	21.2	3.00	31.2			238	6.90	10.4	12.5	
OREAS 147 (4 Acid) Meas		> 400	0.99	0.60	5.18	1.79	1.15		45	42	386	3.52	0.7	21.5	2.8	35.1			> 100	7.1	10.3	12.9	
OREAS 147 (4 Acid) Cert		2260	0.948	0.535	4.90	1.60	1.09		60.0	57.0	390	3.23	2.99	21.2	3.00	31.2			238	6.90	10.4	12.5	
Oreas 521 (4 Acid) Meas		17.2	0.95	1.14	4.78	3.26	3.80		202	32	3180	20.6	3.3	72.7	2.3	0.9	0.8	0.88	0.74	412	1.68	6.17	1.4
Oreas 521 (4 Acid) Cert		16.4	0.98	1.13	4.77	3.16	3.86		209	31	3210	20.7	3.2	73.0	2.1	0.9	0.7	0.89	0.72	386	1.64	5.85	2.4
Oreas 521 (4 Acid) Meas																							
Oreas 521 (4 Acid) Cert																							
Oreas 521 (4 Acid) Meas																							
Oreas 521 (4 Acid) Cert																							
OREAS 70b (4 Acid) Meas		32.1	0.82	14.3	4.02	0.59	3.25	0.3	50		1130	5.67	1.9	2030		0.9		0.18	3.18	75.2		1.19	
OREAS 70b (4 Acid) Cert		34.4	0.77	13.4	3.87	0.62	3.05	0.4	67		1150	5.52	1.9	2180		1		0.17	3.44	78.0		0.840	
OREAS 70b (4 Acid) Meas		35.8	0.78	13.7	3.83	0.68	3.16	0.3	70		1210	5.67	1.8	2340		1.0		0.17	3.38	79.7		1.18	
OREAS 70b (4 Acid) Cert		34.4	0.77	13.4	3.87	0.62	3.05	0.4	67		1150	5.52	1.9	2180		1		0.17	3.44	78.0		0.840	
829066 Orig	7																						
829066 Dup	8																						
829068 Orig		10.5	1.24	4.53	6.85	0.54	8.59	< 0.1	173	168	1430	7.22	0.3	145	1.5	< 0.1	0.5	< 0.05	1.91	45.8	0.56	0.10	< 0.1
829068 Dup		10.4	1.32	4.49	6.93	0.56	8.75	< 0.1	163	160	1390	6.88	0.2	143	1.4	< 0.1	0.5	0.05	1.86	46.2	0.55	0.09	< 0.1
829081 Orig	5	17.4	1.64	4.09	> 10.0	0.08	8.24	< 0.1	185	188	1190	7.32	0.5	101	1.7	< 0.1	0.6	0.06	0.35	39.2	0.60	0.08	< 0.1
829081 Dup	< 5	17.3	1.64	3.96	9.63	0.07	8.18	< 0.1	195	166	1200	7.23	0.5	99.7	1.5	< 0.1	0.6	0.06	0.32	38.7	0.57	0.08	< 0.1
829089 Orig	< 5																						
829089 Dup	< 5																						
829101 Orig	< 5																						
829101 Dup	< 5																						
829103 Orig		44.6	1.07	4.96	7.39	1.08	7.02	0.2	235	369	1390	7.97	0.3	167	1.6	0.4	0.6	0.46	8.47	44.8	0.63	0.50	0.7
829103 Dup		46.7	1.09	5.11	7.70	1.15	7.47	0.3	223	286	1370	8.11	0.3	175	1.7	0.4	0.6	0.48	8.57	47.2	0.60	0.52	0.7
829114 Orig	5	21.8	1.61	2.81	6.84	0.62	5.95	0.2	216	194	1660	7.69	1.1	118	1.7	2.6	0.6	0.27	16.2	38.1	0.59	0.97	0.7
829114 Split PREP DUP	7	22.4	1.56	2.89	7.21	0.62	5.69	0.2	212	192	1640	7.71	1.1	119	1.9	2.4	0.7	0.30	16.0	38.2	0.58	1.09	0.6
829115 Orig	53																						
829115 Dup	58																						
829118 Orig		28.9	1.32	3.23	5.85	0.26	5.65	0.1	134	208	1060	7.19	0.4	58.4	2.2	0.3	0.7	0.09	2.96	32.8	0.76	4.41	0.6
829118 Dup		28.8	1.32	3.12	5.78	0.25	5.43	0.1	98	155	1060	7.20	0.2	58.2	2.1	0.3	0.7	0.09	3.10	32.6	0.75	4.70	0.5
829123 Orig	< 5																						
829123 Dup	< 5																						
829126 Orig		24.9	1.64	3.42	6.68	0.38	7.21	< 0.1	203	141	1450	8.72	0.6	65.3	2.9	0.4	0.9	0.05	5.71	41.9	1.24	0.14	< 0.1
829126 Dup		23.4	1.47	3.25	6.21	0.39	7.21	0.1	200	134	1360	8.45	0.6	61.9	2.8	0.4	0.9	0.08	5.67	40.7	1.20	0.13	< 0.1
829127 Orig		21.6	1.75	4.32	6.48	0.34	6.86	0.1	260	182	1370	8.84	0.7	74.6	3.0	0.3	0.9	0.07	6.88	43.6	0.98	0.08	< 0.1
829127 Dup		22.3	1.87	4.46	6.54	0.33	6.99	0.1	251	167	1400	9.11	0.7	74.1	2.8	0.3	0.9	0.07	7.05	43.8	0.99	0.07	0.2
829135 Orig	< 5																						
829135 Dup	< 5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829149 Orig	< 5																						
829149 Dup	< 5																						
829158 Orig	< 5																						
829158 Dup	6																						
829164 Orig	< 5	23.3	1.58	2.73	7.20	0.41	7.05	< 0.1	108	166	1490	8.81	0.3	67.9	2.9	0.3	0.9	0.06	4.46	46.7	1.07	0.10	0.2
829164 Split PREP DUP	< 5	24.1	1.51	2.78	7.37	0.41	6.90	< 0.1	132	182	1520	9.08	0.5	72.3	2.9	0.3	1.0	0.05	4.44	47.9	1.03	0.10	0.2
829169 Orig	< 5	38.8	1.70	3.11	6.97	0.55	5.90	< 0.1	250	256	1350	8.61	1.0	74.5	2.8	0.3	0.9	0.08	7.37	44.4	0.87	0.08	0.2
829169 Dup	< 5	38.1	1.56	3.09	7.10	0.57	6.06	< 0.1	103	177	1300	8.45	0.4	71.5	2.8	0.4	0.9	< 0.05	7.86	44.6	0.88	0.09	0.1
829170 Orig		42.4	2.77	0.15	7.38	3.03	1.19	< 0.1	12	15	206	1.47	4.2	3.6	0.6	1.0	0.2	0.17	1.56	2.5	0.61	0.06	0.2
829170 Dup		44.1	2.91	0.16	8.04	3.14	1.23	< 0.1	12	23	209	1.45	4.2	3.1	0.5	1.1	0.2	0.15	1.58	2.1	0.62	0.05	< 0.1
829183 Orig	< 5																						
829183 Dup	< 5																						
829184 Orig		41.7	1.46	1.69	7.95	0.62	3.60	0.2	154	538	2040	10.5	0.6	180	2.9	0.4	1.0	0.08	3.81	76.0	0.99	0.09	0.2
829184 Dup		42.5	1.41	1.71	7.81	0.60	3.69	0.1	202	591	2070	10.6	0.9	183	3.0	0.4	1.1	0.09	3.91	75.1	1.00	0.07	0.3
829192 Orig	5																						
829192 Dup	6																						
829196 Orig		31.6	1.23	4.16	6.68	0.17	7.82	0.2	271	109	1440	9.45	1.2	63.1	3.0	0.3	1.0	0.21	2.59	50.9	1.00	0.15	0.3
829196 Dup		32.8	1.26	4.38	7.00	0.17	7.90	0.2	188	131	1370	9.44	0.9	65.0	2.9	0.3	1.0	0.14	2.73	50.0	1.04	0.16	0.2
829204 Orig	< 5																						
829204 Dup	< 5																						
829211 Orig		20.1	1.33	3.01	6.45	0.34	7.59	0.2	141	133	1400	8.98	0.5	57.2	2.9	0.5	1.0	0.18	3.96	37.3	1.19	0.61	0.5
829211 Dup		19.3	1.39	3.04	6.30	0.33	7.26	0.2	138	140	1360	8.90	0.6	57.8	2.9	0.5	1.0	0.16	3.93	36.4	1.20	0.58	0.8
829214 Orig	6	20.3	1.24	3.44	7.43	0.36	8.16	0.2	274	201	1600	9.15	0.5	57.3	2.1	0.3	0.7	0.12	5.20	46.4	0.77	0.44	0.5
829214 Split PREP DUP	< 5	19.4	1.19	3.33	6.98	0.35	7.86	0.1	273	192	1480	8.67	0.5	56.2	2.1	0.3	0.7	0.12	5.21	45.0	0.74	0.41	0.4
Method Blank	5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	5																						
Method Blank	5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	3	10	25	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	2	11	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	0.03	< 0.1
Method Blank		< 0.5	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.1	2	6	12	0.01	< 0.1	0.9	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	2	8	10	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1
Method Blank																							
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	2	9	13	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1
Method Blank																							
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	2	9	2	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1
Method Blank																							
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	3	8	3	< 0.01	< 0.1	0.6	< 0.1	0.3	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.7
Method Blank																							
Method Blank																							
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	2	6	5	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.3
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	2	10	5	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.3
Method Blank																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	
Oreas 72a (4 Acid) Meas			7.0																				315	
Oreas 72a (4 Acid) Cert			14.7																				316	
Oreas 72a (4 Acid) Meas			3.8																				311	
Oreas 72a (4 Acid) Cert			14.7																				316	
Oreas 72a (4 Acid) Meas			5.6																				317	
Oreas 72a (4 Acid) Cert			14.7																				316	
Oreas 72a (4 Acid) Meas			3.9																				282	
Oreas 72a (4 Acid) Cert			14.7																				316	
Oreas 72a (4 Acid) Meas			6.1																				300	
Oreas 72a (4 Acid) Cert			14.7																				316	
OREAS 101b (4 Acid) Meas					132				20.6						760	1380	118	368	45.7	38.9	4.3	25.5	405	
OREAS 101b (4 Acid) Cert					133				20.1						754	1325	127	388	48	40	5.4	27	412	
OREAS 101b (4 Acid) Meas					120				18.9						679	1180	112	319	43.0	37.0	4.3	26.0	420	
OREAS 101b (4 Acid) Cert					133				20.1						754	1325	127	388	48	40	5.4	27	412	
OREAS 101b (4 Acid) Meas					119				18.7						660	1180	110	308	51.2	37.2	4.3	25.9	390	
OREAS 101b (4 Acid) Cert					133				20.1						754	1325	127	388	48	40	5.4	27	412	
OREAS 101b (4 Acid) Meas					131				19.7						794	1420	127	367	46.7	37.7	4.8	24.6	410	
OREAS 101b (4 Acid) Cert					133				20.1						754	1325	127	388	48	40	5.4	27	412	
OREAS 101b (4 Acid) Meas					124				19.0						822	1420	126	373	47.2	36.9	4.8	27.3	408	
OREAS 101b (4 Acid) Cert					133				20.1						754	1325	127	388	48	40	5.4	27	412	
OREAS 101b (4 Acid) Meas					137				19.6						852	1470	140	384	45.7	35.6	4.7	27.2	400	
OREAS 101b (4 Acid) Cert					133				20.1						754	1325	127	388	48	40	5.4	27	412	
OREAS 98 (4 Acid) Meas	1460										> 200	6.7											> 10000	
OREAS 98 (4 Acid) Cert	1360										206	20.1												14800 0.0
OREAS 98 (4 Acid) Meas	1220										186	6.8												> 10000
OREAS 98 (4 Acid) Cert	1360										206	20.1												14800 0.0
OREAS 98 (4 Acid) Meas	1420										> 200	6.3												> 10000
OREAS 98 (4 Acid) Cert	1360										206	20.1												14800 0.0
OREAS 98 (4 Acid) Meas	1320										> 200	6.9												> 10000

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 98 (4 Acid) Cert	1360										206	20.1											14800 0.0
OREAS 98 (4 Acid) Meas	1360										> 200	7.0											> 10000
OREAS 98 (4 Acid) Cert	1360										206	20.1											14800 0.0
OREAS 13b (4-Acid) Meas	139		61.8						8.89														2290
OREAS 13b (4-Acid) Cert	133		57						9.0														2327.0 000
OREAS 13b (4-Acid) Meas	150		58.8						8.72														2250
OREAS 13b (4-Acid) Cert	133		57						9.0														2327.0 000
OREAS 13b (4-Acid) Meas	117		39.4						8.68														2020
OREAS 13b (4-Acid) Cert	133		57						9.0														2327.0 000
OREAS 13b (4-Acid) Meas	135		47.7						8.51														2380
OREAS 13b (4-Acid) Cert	133		57						9.0														2327.0 000
OREAS 904 (4 Acid) Meas	27.8	16.7	107	137	32.2	26.1	43		2.04	0.2	2	0.3		206	43.6	92.3						0.9	6530
OREAS 904 (4 Acid) Cert	26.3	16.7	98.0	130	31.5	27.2	171		2.12	0.220	2.83	1.48		194	43.2	86.0						1.00	6120
OREAS 904 (4 Acid) Meas	24.1	14.3	108	126	33.1	27.3	18		2.11	0.2	2	1.1		191	44.0	82.5						0.9	6030
OREAS 904 (4 Acid) Cert	26.3	16.7	98.0	130	31.5	27.2	171		2.12	0.220	2.83	1.48		194	43.2	86.0						1.00	6120
OREAS 904 (4 Acid) Meas	25.5	18.6	91.4	110	29.3	26.9	18		2.00	0.2	2	1.1		172	44.7	89.1						1.0	6490
OREAS 904 (4 Acid) Cert	26.3	16.7	98.0	130	31.5	27.2	171		2.12	0.220	2.83	1.48		194	43.2	86.0						1.00	6120
OREAS 904 (4 Acid) Meas	25.6	18.3	94.0	139	29.6	26.9	169		2.11	0.2	3	0.9		210	44.4	89.3						1.0	6560
OREAS 904 (4 Acid) Cert	26.3	16.7	98.0	130	31.5	27.2	171		2.12	0.220	2.83	1.48		194	43.2	86.0						1.00	6120
OREAS 45d (4-Acid) Meas	51.1	21.4	8.3	42.5	11.3	28.3	115	2.1	0.82	< 0.1	< 1	< 0.1		195	16.9	38.1	4.2	14.6	3.1	2.6	0.4	2.5	371
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26	371
OREAS 45d (4-Acid) Meas	41.7	22.5	5.3	41.2	9.7	29.4	35	0.2	0.14	< 0.1	< 1	< 0.1		188	16.3	35.1	3.8	13.8	2.1	2.4	0.4	2.5	349
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26	371
OREAS 45d (4-Acid) Meas	45.7	24.2	12.8	42.9	10.0	30.3	139	8.3	1.51	< 0.1	1	0.1		193	17.0	36.1	3.9	14.4	2.9	2.6	0.4	2.3	384
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26	371
OREAS 96 (4 Acid) Meas	502										66	5.0											> 10000
OREAS 96 (4 Acid) Cert	457										65.6	5.09											39300
OREAS 96 (4 Acid) Meas	458										65	3.3											> 10000
OREAS 96 (4 Acid) Cert	457										65.6	5.09											39300

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 96 (4 Acid) Meas	473										66	3.7											> 10000
OREAS 96 (4 Acid) Cert	457										65.6	5.09											39300
OREAS 923 (4 Acid) Meas	343	20.2	7.2	172	23.9	42.7	118	14.4	0.92	0.6	14	1.2		463	42.5	84.9	10.0	34.9	6.3	5.9	0.9	5.2	4620
OREAS 923 (4 Acid) Cert	345	20.3	7.61	166	26.4	43.0	116	14.1	0.930	0.520	13.3	1.29		434	42.2	83.0	9.58	35.4	6.64	5.73	0.850	5.05	4230
OREAS 923 (4 Acid) Meas	363	20.8	8.0	151	23.5	41.2	121	14.4	0.89	0.5	14	1.2		434	42.8	84.7	9.9	35.1	7.1	5.8	0.8	5.0	4630
OREAS 923 (4 Acid) Cert	345	20.3	7.61	166	26.4	43.0	116	14.1	0.930	0.520	13.3	1.29		434	42.2	83.0	9.58	35.4	6.64	5.73	0.850	5.05	4230
OREAS 923 (4 Acid) Meas																							
OREAS 923 (4 Acid) Cert																							
OREAS 621 (4 Acid) Meas	> 10000	24.8	82.3	83.5	10.7	66.3	149	9.8	13.1	1.7	5	32.6			18.0	44.5					0.5		3650
OREAS 621 (4 Acid) Cert	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6					0.460		3630
OREAS 621 (4 Acid) Meas	> 10000	23.8	72.7	78.6	9.9	58.8	146	8.2	12.7	1.7	5	24.0			15.0	39.9					0.4		3370
OREAS 621 (4 Acid) Cert	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6					0.460		3630
OREAS 621 (4 Acid) Meas	> 10000	25.0	80.4	84.1	9.9	51.8	139	7.5	13.1	1.8	5	17.7			14.7	43.1					0.4		3530
OREAS 621 (4 Acid) Cert	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6					0.460		3630
OREAS 621 (4 Acid) Meas	> 10000	24.6	77.0	81.7	10.7	62.0	129	9.0	12.7	1.7	5	20.7			16.0	40.8					0.4		3210
OREAS 621 (4 Acid) Cert	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6					0.460		3630
OREAS 621 (4 Acid) Meas	> 10000	28.0	67.0	74.2	9.7	60.8	134	9.2	13.2	1.9	5	18.8			16.0	41.3					0.4		3780
OREAS 621 (4 Acid) Cert	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6					0.460		3630
Oreas 77b (4 Acid) Meas	238	5.0	1980	19.3	7.1	32.3	42	3.2		0.1	2	7.6	1.3	11	15.8	29.5							3460
Oreas 77b (4 Acid) Cert	205	4.61	2050	19.1	6.55	34.4	37.9	3.26		0.112	1.59	9.100	1.35	118	15.8	27.7							3430
Oreas 77b (4 Acid) Meas	199	5.0	1680	21.2	7.3	37.0	38	3.3		0.1	2	5.8	1.1	9	15.7	28.2							3170
Oreas 77b (4 Acid) Cert	205	4.61	2050	19.1	6.55	34.4	37.9	3.26		0.112	1.59	9.100	1.35	118	15.8	27.7							3430
Oreas 77b (4 Acid) Meas	209	4.9	1550	18.4	5.9	31.6	35	2.9		0.1	2	5.3	1.1	17	15.1	26.7							3260
Oreas 77b (4 Acid) Cert	205	4.61	2050	19.1	6.55	34.4	37.9	3.26		0.112	1.59	9.100	1.35	118	15.8	27.7							3430
Oreas 77b (4 Acid) Meas	208	4.8	1490	18.1	5.7	31.6	35	2.9		0.1	2	6.3	1.1	24	15.0	26.7							3360
Oreas 77b (4 Acid) Cert	205	4.61	2050	19.1	6.55	34.4	37.9	3.26		0.112	1.59	9.100	1.35	118	15.8	27.7							3430
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
OREAS 681 (4 Acid) Meas	85.7	15.6		77.1	14.7	441	59	5.6	1.28	< 0.1	2	0.2		436	17.6	38.1	5.0	20.2	4.2	3.8	0.5	3.4	237
OREAS 681 (4 Acid) Cert	88.0	17.6		80.0	17.5	478	58.0	6.17	1.38	0.0420	1.89	0.240		442	18.8	40.6	5.32	21.9	4.82	4.06	0.580	3.40	264
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 247 (4 Acid) Meas	87.8	16.1	3360	144	16.4	90.1	106	0.2	0.48	< 0.1	3	491		404	31.7	67.7	8.0	27.6	5.0	4.1	0.5	3.2	41.0
OREAS 247 (4 Acid) Cert	86.0	16.3	3510	144	13.1	96.0	125	11.7	1.76	0.0580	3.31	3300		550	33.1	67.0	7.90	29.3	5.50	42.3	0.530	2.73	42.2
OREAS 147 (4 Acid) Meas	148	17.8	16.4	1200	24.7	236	22	88.1	4.67	2.7		0.9		1950	653	1150	110		45.2	24.0	1.8	7.7	291
OREAS 147 (4 Acid) Cert	138	22.6	36.0	1160	26.3	299	105	1110	7.99	2.61		10.6		1940	663	1110	121		48.7	24.2	2.35	9.20	298
OREAS 147 (4 Acid) Meas	118	13.8	15.2	1300	25.5	280	32	78.8	3.55	2.7		1.2		1890	708	1200	122		45.8	24.8	2.2	8.0	282
OREAS 147 (4 Acid) Cert	138	22.6	36.0	1160	26.3	299	105	1110	7.99	2.61		10.6		1940	663	1110	121		48.7	24.2	2.35	9.20	298

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 147 (4 Acid) Meas	145	11.1	18.8	1350	23.8	291	65	61.9	4.21	3.0		4.2		2060	748	1240	127		44.9	25.3	2.2	8.6	294
OREAS 147 (4 Acid) Cert	138	22.6	36.0	1160	26.3	299	105	1110	7.99	2.61		10.6		1940	663	1110	121		48.7	24.2	2.35	9.20	298
OREAS 147 (4 Acid) Meas	138	10.5	15.8	1370	24.7	291	32	91.3	3.85	2.8		1.6		2100	763	1260	127		43.6	24.9	2.1	8.4	283
OREAS 147 (4 Acid) Cert	138	22.6	36.0	1160	26.3	299	105	1110	7.99	2.61		10.6		1940	663	1110	121		48.7	24.2	2.35	9.20	298
Oreas 521 (4 Acid) Meas	30.3	18.9	299	104	18.1	84.6	124	6.1	142	0.2	7	2.8	0.3		73.5	95.6	8.3	25.5	3.9	4.4	0.6	3.6	6240
Oreas 521 (4 Acid) Cert	24.4	17.4	336	98.0	19.9	158	123	5.6	138	0.2	7	5.7	0.8		139	123	8.4	25.4	4.2	4.0	0.6	3.5	6070
Oreas 521 (4 Acid) Meas																							
Oreas 521 (4 Acid) Cert																							
Oreas 521 (4 Acid) Meas																							
Oreas 521 (4 Acid) Cert																							
OREAS 70b (4 Acid) Meas	109	5.1	148		9.5	75.7	59	3.3	3.44	< 0.1	1	0.3		201	15.2	27.2							52.3
OREAS 70b (4 Acid) Cert	112	10	148		9.8	74.0	66	3.7	3.30	0.05	1	0.6		202	15.3	28.2							52.0
OREAS 70b (4 Acid) Meas	116	9.7	129		9.0	74.4	62	3.4	3.63	< 0.1	1	0.4		219	15.2	27.3							50.7
OREAS 70b (4 Acid) Cert	112	10	148		9.8	74.0	66	3.7	3.30	0.05	1	0.6		202	15.3	28.2							52.0
829066 Orig																							
829066 Dup																							
829068 Orig	71.5	13.0	< 0.1	20.0	12.8	124	5	0.2	0.20	< 0.1	< 1	< 0.1	< 0.1	86	1.6	4.2	0.7	3.5	1.5	1.9	0.3	2.4	90.1
829068 Dup	71.8	12.8	< 0.1	19.8	13.5	121	5	0.1	0.19	< 0.1	< 1	< 0.1	< 0.1	90	1.5	4.3	0.7	3.4	1.0	1.9	0.3	2.4	86.9
829081 Orig	63.4	17.7	< 0.1	0.8	14.7	120	12	0.3	< 0.05	< 0.1	< 1	< 0.1	< 0.1	14	2.4	6.4	1.0	4.4	1.8	2.2	0.4	2.6	109
829081 Dup	63.5	17.3	< 0.1	0.4	13.6	115	12	0.6	0.06	< 0.1	< 1	< 0.1	< 0.1	12	2.5	6.3	0.9	4.6	1.4	2.1	0.3	2.6	105
829089 Orig																							
829089 Dup																							
829101 Orig																							
829101 Dup																							
829103 Orig	123	14.7	0.3	51.2	14.4	157	8	2.0	0.33	< 0.1	< 1	< 0.1	0.2	137	2.2	6.2	1.0	4.7	1.6	2.0	0.4	2.7	106
829103 Dup	122	15.0	0.5	53.6	15.4	157	8	0.8	0.22	< 0.1	< 1	< 0.1	< 0.1	139	2.4	6.8	1.1	5.4	1.6	2.1	0.4	2.6	108
829114 Orig	108	19.8	0.7	43.0	18.1	136	23	4.1	2.67	< 0.1	1	< 0.1	0.3	118	3.7	9.6	1.4	6.6	2.3	2.6	0.5	3.2	151
829114 Split PREP DUP	111	19.3	0.5	45.2	17.7	130	23	5.0	4.46	< 0.1	1	< 0.1	0.5	117	3.7	9.8	1.4	6.7	2.1	2.7	0.5	3.2	149
829115 Orig																							
829115 Dup																							
829118 Orig	81.4	13.2	< 0.1	9.9	19.6	104	13	< 0.1	0.24	< 0.1	< 1	< 0.1	0.1	146	4.1	10.8	1.6	6.9	2.3	2.8	0.5	3.5	93.8
829118 Dup	79.5	13.0	0.5	9.7	19.0	105	6	< 0.1	0.16	< 0.1	< 1	< 0.1	0.1	148	4.2	10.8	1.6	7.4	2.3	2.9	0.5	3.6	90.6
829123 Orig																							
829123 Dup																							
829126 Orig	104	16.7	< 0.1	9.6	24.9	219	18	0.3	0.16	< 0.1	< 1	< 0.1	< 0.1	271	9.5	24.1	3.4	14.6	3.2	4.2	0.7	4.5	83.3
829126 Dup	104	16.1	0.5	9.5	24.2	210	19	0.8	0.29	< 0.1	< 1	< 0.1	< 0.1	264	9.1	22.6	3.3	13.9	3.7	4.1	0.6	4.3	77.1
829127 Orig	95.5	16.5	< 0.1	11.5	23.8	148	18	2.1	0.66	< 0.1	< 1	< 0.1	< 0.1	91	4.6	12.7	2.0	9.4	2.7	3.7	0.6	4.2	78.7
829127 Dup	95.4	16.1	< 0.1	10.2	23.6	145	17	1.9	0.61	< 0.1	< 1	< 0.1	< 0.1	92	4.6	12.5	1.9	9.1	2.4	3.5	0.6	4.2	80.9
829135 Orig																							
829135 Dup																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829149 Orig																							
829149 Dup																							
829158 Orig																							
829158 Dup																							
829164 Orig	84.4	15.5	0.9	15.5	24.6	104	7	< 0.1	0.07	< 0.1	< 1	< 0.1	< 0.1	490	4.3	11.8	1.9	8.6	2.9	4.0	0.7	4.8	106
829164 Split PREP DUP	82.8	15.5	1.0	12.8	25.3	105	13	0.2	0.21	< 0.1	< 1	< 0.1	< 0.1	494	4.2	11.8	1.9	8.6	3.1	3.7	0.6	4.9	106
829169 Orig	86.2	13.6	0.1	18.6	21.8	88.3	32	1.8	0.31	< 0.1	< 1	< 0.1	< 0.1	792	3.2	9.5	1.5	7.1	2.4	3.2	0.6	4.3	73.4
829169 Dup	87.0	13.3	< 0.1	27.3	23.7	87.7	13	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	797	4.0	11.3	1.8	8.2	2.5	3.6	0.6	4.5	74.9
829170 Orig	50.0	18.8	2.3	115	5.8	114	148	8.0	1.45	< 0.1	2	< 0.1	< 0.1	776	34.5	73.8	7.0	21.0	2.9	2.3	0.2	1.2	1.6
829170 Dup	46.1	17.8	2.9	114	6.0	112	148	6.8	1.54	< 0.1	2	< 0.1	< 0.1	791	32.2	71.7	6.8	19.5	2.6	2.3	0.2	1.2	2.0
829183 Orig																							
829183 Dup																							
829184 Orig	114	18.3	0.4	17.9	25.2	163	20	< 0.1	0.23	< 0.1	< 1	< 0.1	< 0.1	184	4.1	11.8	1.9	8.6	2.7	3.7	0.7	4.8	117
829184 Dup	125	19.1	0.6	18.3	25.7	165	28	0.3	0.26	< 0.1	< 1	< 0.1	< 0.1	184	4.1	11.9	1.8	8.9	2.6	3.8	0.6	4.6	122
829192 Orig																							
829192 Dup																							
829196 Orig	111	18.0	< 0.1	4.3	24.2	262	38	3.2	0.92	< 0.1	< 1	< 0.1	< 0.1	28	4.3	12.6	2.0	9.3	2.8	3.7	0.6	4.6	139
829196 Dup	111	18.1	< 0.1	7.3	25.3	266	30	< 0.1	0.09	< 0.1	< 1	< 0.1	< 0.1	29	4.9	14.1	2.1	9.9	3.1	3.8	0.7	4.6	138
829204 Orig																							
829204 Dup																							
829211 Orig	159	18.1	0.9	13.2	26.1	192	15	0.9	0.30	0.1	1	< 0.1	< 0.1	212	5.6	16.0	2.3	10.9	3.4	4.3	0.7	4.8	118
829211 Dup	156	17.3	0.3	12.3	24.8	182	17	0.6	0.28	0.1	1	< 0.1	< 0.1	210	5.7	15.6	2.3	11.0	3.4	4.4	0.7	4.9	118
829214 Orig	103	16.6	0.9	15.5	18.0	182	11	0.4	0.33	< 0.1	< 1	< 0.1	< 0.1	294	2.8	8.1	1.3	6.4	1.8	2.5	0.5	3.4	125
829214 Split PREP DUP	99.6	15.6	< 0.1	14.7	17.8	174	11	0.7	0.59	< 0.1	< 1	< 0.1	< 0.1	282	2.9	7.9	1.2	5.9	1.8	2.6	0.5	3.5	122
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	1.7	0.3	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.4
Method Blank	< 0.2	0.2	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Method Blank	< 0.2	0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.12	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	1.6
Method Blank	< 0.2	0.2	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Method Blank																							
Method Blank	< 0.2	0.2	0.6	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Method Blank																							
Method Blank	1.2	0.3	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.3
Method Blank																							
Method Blank	1.0	0.5	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.08	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.7
Method Blank																							
Method Blank																							
Method Blank	< 0.2	0.3	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.23	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	1.6
Method Blank	< 0.2	0.2	0.5	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.06	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Method Blank																							

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Oreas 72a (4 Acid) Meas															1.64
Oreas 72a (4 Acid) Cert															1.74
Oreas 72a (4 Acid) Meas															1.70
Oreas 72a (4 Acid) Cert															1.74
Oreas 72a (4 Acid) Meas															1.67
Oreas 72a (4 Acid) Cert															1.74
Oreas 72a (4 Acid) Meas															
Oreas 72a (4 Acid) Cert															
Oreas 72a (4 Acid) Meas															
Oreas 72a (4 Acid) Cert															
OREAS 101b (4 Acid) Meas		2.0	13.2	1.8					22.8		36.1	380	0.365	0.119	
OREAS 101b (4 Acid) Cert		2.08	13.9	1.96					23		36.4	387	0.35		
OREAS 101b (4 Acid) Meas		2.1	12.7	1.7					23.2		33.3	321	0.370	0.108	
OREAS 101b (4 Acid) Cert		2.08	13.9	1.96					23		36.4	387	0.35		
OREAS 101b (4 Acid) Meas		2.1	12.5	1.7					23.1		33.7	320	0.369	0.121	
OREAS 101b (4 Acid) Cert		2.08	13.9	1.96					23		36.4	387	0.35		
OREAS 101b (4 Acid) Meas		1.9	12.5	1.8					22.1		39.5	417			
OREAS 101b (4 Acid) Cert		2.08	13.9	1.96					23		36.4	387			
OREAS 101b (4 Acid) Meas		2.1	12.9	1.8					23.0		37.0	445			
OREAS 101b (4 Acid) Cert		2.08	13.9	1.96					23		36.4	387			
OREAS 101b (4 Acid) Meas		2.2	12.9	1.8					22.8		35.0	425			
OREAS 101b (4 Acid) Cert		2.08	13.9	1.96					23		36.4	387			
OREAS 98 (4 Acid) Meas									336						16.3
OREAS 98 (4 Acid) Cert									345						15.5
OREAS 98 (4 Acid) Meas									292						16.2
OREAS 98 (4 Acid) Cert									345						15.5
OREAS 98 (4 Acid) Meas									329						17.3
OREAS 98 (4 Acid) Cert									345						15.5
OREAS 98 (4 Acid) Meas									370						

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
OREAS 98 (4 Acid) Cert									345						
OREAS 98 (4 Acid) Meas									354						
OREAS 98 (4 Acid) Cert									345						
OREAS 13b (4-Acid) Meas															1.17
OREAS 13b (4-Acid) Cert															1.2
OREAS 13b (4-Acid) Meas															1.15
OREAS 13b (4-Acid) Cert															1.2
OREAS 13b (4-Acid) Meas															1.18
OREAS 13b (4-Acid) Cert															1.2
OREAS 13b (4-Acid) Meas															
OREAS 13b (4-Acid) Cert															
OREAS 904 (4 Acid) Meas	0.1		3.3	0.5	< 0.1	0.8		0.52	11.3	11	15.2	8.9		0.097	0.06
OREAS 904 (4 Acid) Cert	0.180		3.14	0.470	0.540	2.12		0.520	10.6	11.2	14.3	8.43		0.0980	0.0630
OREAS 904 (4 Acid) Meas	< 0.1		3.1	0.4	< 0.1	2.5		0.52	11.4	11	14.3	8.7		0.094	0.06
OREAS 904 (4 Acid) Cert	0.180		3.14	0.470	0.540	2.12		0.520	10.6	11.2	14.3	8.43		0.0980	0.0630
OREAS 904 (4 Acid) Meas	< 0.1		3.1	0.5	< 0.1	2.4		0.55	10.9		14.8	9.1			
OREAS 904 (4 Acid) Cert	0.180		3.14	0.470	0.540	2.12		0.520	10.6		14.3	8.43			
OREAS 904 (4 Acid) Meas	0.3		3.2	0.5	0.2	2.1		0.54	11.4		14.5	9.0			
OREAS 904 (4 Acid) Cert	0.180		3.14	0.470	0.540	2.12		0.520	10.6		14.3	8.43			
OREAS 45d (4-Acid) Meas			1.5	0.2	< 0.1	0.2		0.24	22.0	51	15.0	2.6	0.477	0.037	0.05
OREAS 45d (4-Acid) Cert			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 45d (4-Acid) Meas			1.4	0.2	< 0.1	< 0.1		0.24	21.1	52	14.2	2.8	0.149	0.034	0.04
OREAS 45d (4-Acid) Cert			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 45d (4-Acid) Meas			1.4	0.2	0.4	0.4		0.25	21.2	49	13.8	2.7	0.693	0.041	0.05
OREAS 45d (4-Acid) Cert			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 96 (4 Acid) Meas									101						4.39
OREAS 96 (4 Acid) Cert									101						4.19
OREAS 96 (4 Acid) Meas									96.1						4.34
OREAS 96 (4 Acid) Cert									101						4.19

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
OREAS 96 (4 Acid) Meas									99.6						4.40
OREAS 96 (4 Acid) Cert									101						4.19
OREAS 923 (4 Acid) Meas		0.4	2.5	0.4	1.1	5.5		0.87	89.9	13	16.3	3.2	0.422	0.066	0.72
OREAS 923 (4 Acid) Cert		0.410	2.57	0.390	1.11	4.85		0.860	83.0	13.1	16.5	3.06	0.405	0.0630	0.691
OREAS 923 (4 Acid) Meas		0.4	2.6	0.4	0.9	4.7		0.84	82.5	12	16.5	3.2	0.409	0.065	0.69
OREAS 923 (4 Acid) Cert		0.410	2.57	0.390	1.11	4.85		0.860	83.0	13.1	16.5	3.06	0.405	0.0630	0.691
OREAS 923 (4 Acid) Meas										13			0.410	0.065	0.71
OREAS 923 (4 Acid) Cert										13.1			0.405	0.0630	0.691
OREAS 621 (4 Acid) Meas			0.9	0.1		1.7		2.17	> 5000	5	5.9	2.9	0.186	0.035	4.75
OREAS 621 (4 Acid) Cert			0.990	0.140		2.35		1.96	13600	6.24	7.48	2.83	0.149	0.0359	4.48
OREAS 621 (4 Acid) Meas			0.9	0.1		1.3		2.19	> 5000	5	4.6	2.5	0.182	0.034	4.71
OREAS 621 (4 Acid) Cert			0.990	0.140		2.35		1.96	13600	6.24	7.48	2.83	0.149	0.0359	4.48
OREAS 621 (4 Acid) Meas			0.9	0.1		1.4		2.23	> 5000	4	3.9	2.7	0.177	0.033	4.58
OREAS 621 (4 Acid) Cert			0.990	0.140		2.35		1.96	13600	6.24	7.48	2.83	0.149	0.0359	4.48
OREAS 621 (4 Acid) Meas			0.9	0.1		2.1		2.19	> 5000	6	4.6	2.8	0.187	0.036	4.72
OREAS 621 (4 Acid) Cert			0.990	0.140		2.35		1.96	13600	6.24	7.48	2.83	0.149	0.0359	4.48
OREAS 621 (4 Acid) Meas			0.9	0.1		1.9		2.03	> 5000		3.8	2.8			
OREAS 621 (4 Acid) Cert			0.990	0.140		2.35		1.96	13600		7.48	2.83			
Oreas 77b (4 Acid) Meas					0.3	2.8	0.021	1.35	58.4	3	6.5	1.8	0.0560		
Oreas 77b (4 Acid) Cert					0.280	3.07	0.0220	1.37	61.0	3.51	6.61	1.71	0.0640		
Oreas 77b (4 Acid) Meas					0.3	2.9	0.021	1.46	56.9	3	6.0	1.8	0.0583		
Oreas 77b (4 Acid) Cert					0.280	3.07	0.0220	1.37	61.0	3.51	6.61	1.71	0.0640		
Oreas 77b (4 Acid) Meas					0.3	2.8	0.021	1.42	60.5	3	6.1	1.9	0.0581		
Oreas 77b (4 Acid) Cert					0.280	3.07	0.0220	1.37	61.0	3.51	6.61	1.71	0.0640		
Oreas 77b (4 Acid) Meas					0.2	2.7	0.019	1.40	58.5		6.0	1.9			
Oreas 77b (4 Acid) Cert					0.280	3.07	0.0220	1.37	61.0		6.61	1.71			
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
OREAS 147 (4 Acid) Meas	< 0.1	0.3	1.5	0.2	0.3			11.5	29.0	11	91.7	16.4	0.286	0.105	0.02
OREAS 147 (4 Acid) Cert	0.750	0.270	1.46	0.200	17.8			10.8	27.8	10.7	93.0	15.8	0.470	0.155	0.0300
OREAS 147 (4 Acid) Meas	< 0.1	0.3	1.5	0.2	1.1			11.3	28.4		90.4	15.9			
OREAS 147 (4 Acid) Cert	0.750	0.270	1.46	0.200	17.8			10.8	27.8		93.0	15.8			
Oreas 521 (4 Acid) Meas		0.3	2.1	0.3	0.4	87.5	0.070	0.29	8.9	14	5.4	32.9	0.353	0.079	1.78
Oreas 521 (4 Acid) Cert		0.3	2.1	0.3	0.5	92.0	0.064	0.27	9.3	14	8.3	31.0	0.393	0.081	1.80
Oreas 521 (4 Acid) Meas										14			0.373	0.080	1.72
Oreas 521 (4 Acid) Cert										14			0.393	0.081	1.80
Oreas 521 (4 Acid) Meas										14			0.410	0.082	1.72
Oreas 521 (4 Acid) Cert										14			0.393	0.081	1.80
OREAS 70b (4 Acid) Meas					0.2	4.1		0.32	13.0	12	6.4	1.6	0.173	0.022	0.29
OREAS 70b (4 Acid) Cert					0.3	4.9		0.33	13.7	12	6.9	1.7	0.181	0.022	0.31
OREAS 70b (4 Acid) Meas					0.2	4.2		0.34	12.8		6.2	1.7			
OREAS 70b (4 Acid) Cert					0.3	4.9		0.33	13.7		6.9	1.7			
829066 Orig															
829066 Dup															
829068 Orig	0.4	0.2	1.4	0.2	< 0.1	< 0.1	< 0.001	0.09	2.7	35	< 0.1	< 0.1	0.260	0.016	0.09
829068 Dup	0.5	0.2	1.4	0.2	< 0.1	< 0.1	< 0.001	0.10	2.7	35	< 0.1	< 0.1	0.244	0.016	0.09
829081 Orig	0.5	0.2	1.6	0.2	< 0.1	< 0.1	< 0.001	< 0.05	1.1	33	0.2	< 0.1	0.308	0.021	0.06
829081 Dup	0.6	0.2	1.5	0.2	< 0.1	< 0.1	< 0.001	< 0.05	1.1	32	0.2	< 0.1	0.321	0.021	0.06
829089 Orig															
829089 Dup															
829101 Orig															
829101 Dup															
829103 Orig	0.2	0.2	1.7	0.3	0.1	1.8	< 0.001	0.42	5.4	32	0.2	< 0.1	0.404	0.026	0.54
829103 Dup	0.4	0.3	1.8	0.2	< 0.1	0.2	< 0.001	0.43	5.5	31	0.2	< 0.1	0.372	0.025	0.54
829114 Orig	0.3	0.3	1.9	0.3	0.2	0.2	0.002	0.34	7.8	29	1.7	2.1	0.368	0.027	0.31
829114 Split PREP DUP	0.2	0.3	1.9	0.2	0.5	0.4	0.002	0.36	7.8	29	1.8	2.1	0.381	0.027	0.32
829115 Orig															
829115 Dup															
829118 Orig	0.2	0.3	2.1	0.3	< 0.1	< 0.1	0.001	< 0.05	1.5	31	0.4	0.1	0.199	0.035	0.16
829118 Dup	0.1	0.3	2.1	0.3	< 0.1	< 0.1	0.001	< 0.05	1.5	32	0.4	0.1	0.119	0.035	0.16
829123 Orig															
829123 Dup															
829126 Orig	0.3	0.4	2.7	0.4	< 0.1	< 0.1	0.001	0.07	2.2	35	1.0	0.2	0.300	0.052	0.14
829126 Dup	0.3	0.4	2.6	0.4	< 0.1	< 0.1	0.001	0.07	2.0	35	1.0	0.2	0.400	0.056	0.14
829127 Orig	0.4	0.4	2.6	0.4	< 0.1	< 0.1	< 0.001	0.05	1.6	38	0.4	0.1	0.530	0.047	0.09
829127 Dup	0.4	0.4	2.6	0.3	< 0.1	< 0.1	< 0.001	0.06	1.6	38	0.4	0.1	0.513	0.046	0.09
829135 Orig															
829135 Dup															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
829149 Orig															
829149 Dup															
829158 Orig															
829158 Dup															
829164 Orig	0.1	0.4	3.0	0.4	< 0.1	< 0.1	0.001	< 0.05	0.6	42	0.4	< 0.1	0.119	0.047	0.13
829164 Split PREP DUP	0.3	0.4	3.0	0.4	< 0.1	< 0.1	0.001	< 0.05	0.7	40	0.4	0.1	0.240	0.047	0.13
829169 Orig	0.6	0.4	2.7	0.4	< 0.1	< 0.1	< 0.001	0.10	0.6	36	0.3	< 0.1	0.558	0.049	0.10
829169 Dup	0.1	0.4	2.8	0.4	< 0.1	< 0.1	< 0.001	0.10	0.6	38	0.4	< 0.1	0.133	0.046	0.10
829170 Orig	< 0.1	< 0.1	0.5	< 0.1	0.4	0.1	< 0.001	0.67	15.2	2	10.8	0.6	0.130	0.020	< 0.01
829170 Dup	< 0.1	< 0.1	0.5	< 0.1	0.3	< 0.1	< 0.001	0.66	15.2	2	10.5	0.6	0.131	0.020	< 0.01
829183 Orig															
829183 Dup															
829184 Orig	0.2	0.4	3.1	0.4	< 0.1	< 0.1	0.002	0.08	1.9	49	0.4	0.1	0.162	0.044	0.15
829184 Dup	0.4	0.4	3.0	0.4	< 0.1	0.1	0.001	0.09	1.9	49	0.4	< 0.1	0.300	0.045	0.16
829192 Orig															
829192 Dup															
829196 Orig	1.5	0.4	2.9	0.4	0.2	0.1	0.002	0.06	1.6	39	0.4	0.1	0.604	0.042	0.05
829196 Dup	0.2	0.4	3.0	0.4	< 0.1	< 0.1	0.002	0.06	1.5	39	0.4	0.1	0.234	0.034	0.04
829204 Orig															
829204 Dup															
829211 Orig	0.2	0.4	2.9	0.4	< 0.1	0.1	0.004	0.11	3.9	32	0.5	0.2	0.381	0.065	0.51
829211 Dup	0.2	0.4	2.8	0.4	< 0.1	< 0.1	0.004	0.10	3.7	32	0.5	0.1	0.368	0.066	0.51
829214 Orig	0.3	0.3	2.2	0.3	< 0.1	< 0.1	< 0.001	0.11	2.9	42	0.3	< 0.1	0.412	0.030	0.18
829214 Split PREP DUP	0.2	0.3	2.1	0.3	< 0.1	0.1	< 0.001	0.11	2.7	42	0.2	< 0.1	0.442	0.030	0.18
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank										< 1			< 0.0005	< 0.001	< 0.01
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank										< 1			< 0.0005	< 0.001	< 0.01
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank										< 1			< 0.0005	< 0.001	< 0.01
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.003	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank										< 1			< 0.0005	< 0.001	< 0.01

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
													0.0005		
Method Blank										< 1			< 0.0005	< 0.001	< 0.01
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank										< 1			< 0.0005	< 0.001	< 0.01



Report No.: A21-18547
Report Date: 27-Oct-21
Date Submitted: 04-Oct-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

80 Rock samples were submitted for analysis.

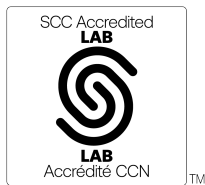
Table with 2 columns: Analytical package(s) requested and Testing Date. Row 1: UT-6, QOP Total/QOP Ultratrace- 4acid Digest (Total Digestion ICPOES/ICPMS), 2021-10-15 09:05:56

REPORT A21-18547

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 266

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Handwritten signature of Emmanuel Esemé

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

Report No.: A21-18547
Report Date: 27-Oct-21
Date Submitted: 04-Oct-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

80 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-Tbay-Harte Gold	QOP AA-Au (Au - Fire Assay AA)	2021-10-06 11:39:07

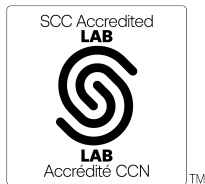
REPORT A21-18547

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 673

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829468	5																						
829469	5																						
829470	< 5																						
829471	9																						
829472	32																						
829473	< 5																						
829474	< 5																						
829475	< 5																						
829476	< 5																						
829477	< 5																						
829478	< 5																						
829479	< 5																						
829480	6810																						
829481	< 5																						
829482	< 5																						
829483	< 5																						
829484	< 5																						
829485	< 5																						
829486	< 5																						
829487	< 5																						
829488	< 5																						
829489	< 5																						
829490	< 5																						
829491	< 5																						
829492	< 5																						
829493	< 5																						
829494	< 5																						
829495	< 5																						
829496	< 5																						
829497	< 5																						
829498	< 5																						
829499	< 5																						
829500	3560																						
829501	< 5																						
829502	< 5																						
829503	< 5																						
829504	< 5																						
829505	< 5																						
829506	< 5																						
829507	< 5																						
829508	< 5																						
829509	< 5																						
829510	< 5																						
829511	< 5																						
829512	< 5																						
829513	< 5	12.7	1.52	4.01	8.03	0.28	7.36	< 0.1	189	217	1150	6.16	0.5	107	1.4	0.3	0.4	0.08	1.69	36.7	0.48	0.53	0.2
829514	13	14.5	1.62	3.16	6.79	0.18	5.61	< 0.1	218	116	1380	9.56	0.7	61.2	2.5	0.3	0.8	0.34	0.68	52.2	0.74	24.2	0.7
829515	< 5	25.0	1.32	4.08	8.71	0.18	8.19	0.1	188	200	1410	8.05	0.5	81.5	1.7	0.3	0.6	0.09	2.27	41.3	0.59	0.63	0.2
829516	< 5																						
829517	< 5																						
829518	< 5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829519	< 5																						
829520	6890																						
829521	5																						
829522	< 5	56.7	1.64	2.06	7.29	1.12	1.53	0.1	33	17	314	2.44	3.1	12.4	0.7	0.8	0.2	0.08	4.39	12.6	0.48	0.10	0.4
829523	< 5	26.1	2.12	0.66	7.36	1.19	2.33	0.1	29	21	355	2.14	3.0	11.4	0.6	1.0	0.2	0.11	3.23	11.0	0.56	0.41	1.0
829524	6	31.4	1.63	1.99	7.44	1.47	4.37	0.1	59	69	730	3.36	2.3	49.0	1.0	0.7	0.3	0.22	3.85	18.0	0.66	0.95	0.8
829525	5	37.5	1.55	1.45	7.62	1.61	2.73	< 0.1	55	44	501	3.12	2.5	27.0	0.8	0.7	0.3	0.38	5.78	15.3	0.63	0.57	1.7
829526	< 5	60.7	1.38	1.51	6.89	1.21	2.40	1.2	44	24	569	3.68	2.4	21.1	0.6	0.6	0.2	0.20	4.41	30.8	0.62	0.63	1.5
829527	< 5	40.2	1.17	1.64	7.61	1.68	2.58	1.8	47	23	589	3.16	2.5	19.9	0.7	0.7	0.3	0.17	6.20	19.8	0.65	0.56	1.4
829528	< 5	15.3	2.05	0.48	7.00	1.73	1.59	1.4	27	15	333	2.05	2.9	11.5	0.8	0.9	0.3	0.14	3.10	9.5	0.52	1.31	1.0
829529	< 5	21.9	1.37	4.00	8.76	0.40	7.25	0.2	253	337	1750	8.88	0.6	173	1.9	0.3	0.7	0.15	2.77	51.6	0.64	0.19	0.6
829530	< 5																						
829531	< 5																						
829532	< 5																						
829533	52																						
829534	20																						
829535	< 5																						
829536	< 5																						
829537	< 5																						
829538	6																						
829539	5																						
829540	5290																						
829541	6																						
829542	6																						
829543	8																						
829544	5																						
829545	< 5																						
829546	< 5																						
829547	< 5																						

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829468																							
829469																							
829470																							
829471																							
829472																							
829473																							
829474																							
829475																							
829476																							
829477																							
829478																							
829479																							
829480																							
829481																							
829482																							
829483																							
829484																							
829485																							
829486																							
829487																							
829488																							
829489																							
829490																							
829491																							
829492																							
829493																							
829494																							
829495																							
829496																							
829497																							
829498																							
829499																							
829500																							
829501																							
829502																							
829503																							
829504																							
829505																							
829506																							
829507																							
829508																							
829509																							
829510																							
829511																							
829512																							
829513	66.5	13.9	< 0.1	6.6	10.9	141	15	1.6	1.06	< 0.1	< 1	< 0.1	< 0.1	66	2.6	6.5	0.9	4.5	1.6	1.7	0.3	2.3	67.0
829514	80.7	14.5	< 0.1	2.5	21.1	93.8	18	0.3	0.24	< 0.1	< 1	< 0.1	0.3	52	2.9	8.6	1.3	7.1	2.4	3.0	0.5	3.9	481
829515	68.3	14.5	0.5	4.7	15.0	123	14	0.5	0.33	< 0.1	< 1	< 0.1	< 0.1	22	2.4	6.7	1.0	5.5	1.5	2.2	0.4	2.7	120
829516																							
829517																							
829518																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829519																							
829520																							
829521																							
829522	87.8	18.4	0.6	34.3	6.4	176	123	2.5	1.59	< 0.1	< 1	< 0.1	< 0.1	364	13.7	31.2	3.7	14.6	2.4	2.0	0.2	1.5	89.2
829523	84.9	21.8	< 0.1	39.2	5.6	348	111	2.3	1.24	< 0.1	1	< 0.1	0.1	566	14.9	33.6	3.7	14.3	2.5	1.9	0.2	1.1	65.5
829524	55.8	16.7	< 0.1	41.2	8.7	287	92	1.1	1.73	< 0.1	< 1	< 0.1	0.1	430	15.7	33.5	3.9	15.3	2.3	2.2	0.3	1.7	164
829525	56.5	20.8	0.6	40.1	6.5	271	94	3.0	1.94	< 0.1	1	< 0.1	0.2	457	13.5	30.6	3.4	14.0	2.1	1.9	0.2	1.4	315
829526	549	17.1	1.7	28.2	5.8	228	92	2.7	2.34	0.1	2	< 0.1	0.3	203	13.4	30.1	3.5	13.5	2.3	1.8	0.2	1.4	156
829527	1070	19.7	< 0.1	43.8	6.6	189	97	2.9	2.32	0.2	2	< 0.1	0.2	420	15.0	34.4	3.9	15.6	2.6	2.0	0.3	1.4	139
829528	740	21.1	1.3	48.0	7.6	177	89	4.7	3.32	0.2	1	< 0.1	0.6	529	12.1	27.5	3.3	12.5	2.7	1.9	0.3	1.4	73.2
829529	110	15.1	0.7	12.2	16.2	138	17	1.9	0.62	< 0.1	< 1	< 0.1	< 0.1	76	3.2	8.3	1.2	6.2	1.5	2.3	0.4	2.9	147
829530																							
829531																							
829532																							
829533																							
829534																							
829535																							
829536																							
829537																							
829538																							
829539																							
829540																							
829541																							
829542																							
829543																							
829544																							
829545																							
829546																							
829547																							

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
829468															
829469															
829470															
829471															
829472															
829473															
829474															
829475															
829476															
829477															
829478															
829479															
829480															
829481															
829482															
829483															
829484															
829485															
829486															
829487															
829488															
829489															
829490															
829491															
829492															
829493															
829494															
829495															
829496															
829497															
829498															
829499															
829500															
829501															
829502															
829503															
829504															
829505															
829506															
829507															
829508															
829509															
829510															
829511															
829512															
829513	0.2	0.2	1.3	0.2	< 0.1	0.6	0.001	0.08	2.0	28	0.3	0.1	0.353	0.021	0.07
829514	0.2	0.4	2.5	0.3	< 0.1	< 0.1	0.002	< 0.05	1.5	40	0.3	< 0.1	0.342	0.029	1.46
829515	0.6	0.3	1.8	0.2	< 0.1	< 0.1	0.001	< 0.05	1.2	38	0.2	< 0.1	0.335	0.026	0.12
829516															
829517															
829518															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
829519															
829520															
829521															
829522	< 0.1	< 0.1	0.7	0.1	< 0.1	0.7	< 0.001	0.15	3.1	6	2.3	0.6	0.203	0.041	0.13
829523	0.1	< 0.1	0.5	< 0.1	0.1	0.5	< 0.001	0.28	6.9	4	2.6	0.8	0.169	0.039	0.30
829524	0.2	0.2	0.9	0.1	< 0.1	0.2	0.001	0.24	4.2	9	2.3	0.6	0.216	0.054	0.12
829525	0.1	0.1	0.7	< 0.1	0.2	0.6	0.001	0.29	3.9	8	2.0	0.5	0.237	0.059	0.45
829526	0.1	< 0.1	0.6	< 0.1	0.2	0.4	0.002	0.23	4.5	7	1.9	0.5	0.227	0.052	0.81
829527	< 0.1	0.1	0.7	0.1	0.2	0.6	0.002	0.38	9.1	7	2.2	0.6	0.224	0.054	0.71
829528	< 0.1	0.1	0.8	0.1	0.4	0.7	< 0.001	0.39	7.3	5	3.5	1.8	0.132	0.030	0.66
829529	0.2	0.3	1.9	0.3	< 0.1	0.6	0.001	0.13	2.1	36	0.3	< 0.1	0.462	0.026	0.34
829530															
829531															
829532															
829533															
829534															
829535															
829536															
829537															
829538															
829539															
829540															
829541															
829542															
829543															
829544															
829545															
829546															
829547															

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Oreas 72a (4 Acid) Meas										178		10.2		> 5000						167			
Oreas 72a (4 Acid) Cert										228		9.63		6930.000						157			
OREAS 101b (4 Acid) Meas				1.18		2.21			63		883	9.97		9.0	13.6		4.7			43.4	6.59		
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7		8.2	15		5.2			45	8.1		
OREAS 98 (4 Acid) Meas																		47.4		117		97.2	174
OREAS 98 (4 Acid) Cert																		45.1		121		97.2	158
OREAS 13b (4-Acid) Meas																							
OREAS 13b (4-Acid) Cert																							
OREAS 904 (4 Acid) Meas																							
OREAS 904 (4 Acid) Cert																							
OREAS 45d (4-Acid) Meas																							
OREAS 45d (4-Acid) Cert																							
OREAS 96 (4 Acid) Meas																		10.5		51.4		28.1	42.5
OREAS 96 (4 Acid) Cert																		11.5		49.9		26.3	40.7
OREAS 923 (4 Acid) Meas																							
OREAS 923 (4 Acid) Cert																							
OREAS 621 (4 Acid) Meas																							
OREAS 621 (4 Acid) Cert																							
Oreas 77b (4 Acid) Meas																							
Oreas 77b (4 Acid) Cert																							
OREAS 228b (Fire Assay) Meas	8310																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8530																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8680																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8690																						
OREAS 228b (Fire Assay) Cert	8570																						
Oreas E1336 (Fire Assay) Meas	509																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se	
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1	
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	
Oreas E1336 (Fire Assay) Cert	510																							
Oreas E1336 (Fire Assay) Meas	512																							
Oreas E1336 (Fire Assay) Cert	510																							
Oreas E1336 (Fire Assay) Meas	492																							
Oreas E1336 (Fire Assay) Cert	510																							
OREAS 681 (4 Acid) Meas																								
OREAS 681 (4 Acid) Cert																								
OREAS 147 (4 Acid) Meas																								
OREAS 147 (4 Acid) Cert																								
Oreas 521 (4 Acid) Meas																								
Oreas 521 (4 Acid) Cert																								
OREAS 70b (4 Acid) Meas																								
OREAS 70b (4 Acid) Cert																								
829469 Orig	5																							
829469 Dup	5																							
829483 Orig	< 5																							
829483 Dup	< 5																							
829492 Orig	< 5																							
829492 Dup	< 5																							
829504 Orig	< 5																							
829504 Dup	< 5																							
829517 Orig	< 5																							
829517 Split PREP DUP	< 5																							
829518 Orig	< 5																							
829518 Dup	< 5																							
829526 Orig	< 5																							
829526 Dup	< 5																							
829528 Orig		15.3	2.12	0.49	7.32	1.83	1.62	1.4	27	14	344	2.13	2.9	11.5	0.8	0.9	0.3	0.13	3.09	9.7	0.53	1.31	1.1	
829528 Dup		15.3	1.97	0.47	6.69	1.62	1.55	1.4	26	16	323	1.97	2.8	11.4	0.8	0.9	0.3	0.14	3.10	9.4	0.51	1.31	0.9	
829547 Orig	< 5																							
829547 Split PREP DUP	< 5																							
Method Blank	< 5																							
Method Blank	< 5																							
Method Blank	< 5																							
Method Blank	< 5																							
Method Blank	< 5																							
Method Blank	< 5																							
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	3	8	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1	
Method Blank																								

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	
Oreas 72a (4 Acid) Meas			6.2																				347	
Oreas 72a (4 Acid) Cert			14.7																					316
OREAS 101b (4 Acid) Meas					122				18.8						739	1330	109	384	45.8	36.4	4.2	24.0	413	
OREAS 101b (4 Acid) Cert					133				20.1						754	1325	127	388	48	40	5.4	27	412	
OREAS 98 (4 Acid) Meas	1310										> 200	10.5											> 10000	
OREAS 98 (4 Acid) Cert	1360										206	20.1												14800 0.0
OREAS 13b (4-Acid) Meas																								
OREAS 13b (4-Acid) Cert																								
OREAS 904 (4 Acid) Meas																								
OREAS 904 (4 Acid) Cert																								
OREAS 45d (4-Acid) Meas																								
OREAS 45d (4-Acid) Cert																								
OREAS 96 (4 Acid) Meas	467										63	4.9												> 10000
OREAS 96 (4 Acid) Cert	457										65.6	5.09												39300
OREAS 923 (4 Acid) Meas																								
OREAS 923 (4 Acid) Cert																								
OREAS 621 (4 Acid) Meas																								
OREAS 621 (4 Acid) Cert																								
Oreas 77b (4 Acid) Meas																								
Oreas 77b (4 Acid) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
Oreas E1336 (Fire Assay) Meas																								

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
Oreas 521 (4 Acid) Meas																							
Oreas 521 (4 Acid) Cert																							
OREAS 70b (4 Acid) Meas																							
OREAS 70b (4 Acid) Cert																							
829469 Orig																							
829469 Dup																							
829483 Orig																							
829483 Dup																							
829492 Orig																							
829492 Dup																							
829504 Orig																							
829504 Dup																							
829517 Orig																							
829517 Split PREP DUP																							
829518 Orig																							
829518 Dup																							
829526 Orig																							
829526 Dup																							
829528 Orig	761	21.5	0.9	49.7	7.8	181	92	4.9	3.13	0.2	1	< 0.1	0.7	546	12.0	27.9	3.3	12.6	2.5	2.0	0.3	1.4	74.1
829528 Dup	719	20.8	1.6	46.2	7.4	172	87	4.6	3.50	0.2	1	< 0.1	0.6	513	12.1	27.2	3.2	12.5	2.9	1.9	0.3	1.5	72.2
829547 Orig																							
829547 Split PREP DUP																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.2	0.2	0.4	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Method Blank																							

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Oreas 72a (4 Acid) Meas															1.60
Oreas 72a (4 Acid) Cert															1.74
OREAS 101b (4 Acid) Meas		2.0	12.5	1.8					22.0		35.2	382	0.332	0.107	
OREAS 101b (4 Acid) Cert		2.08	13.9	1.96					23		36.4	387	0.35		
OREAS 98 (4 Acid) Meas									317						14.9
OREAS 98 (4 Acid) Cert									345						15.5
OREAS 13b (4-Acid) Meas															1.13
OREAS 13b (4-Acid) Cert															1.2
OREAS 904 (4 Acid) Meas										12				0.101	0.07
OREAS 904 (4 Acid) Cert										11.2				0.0980	0.0630
OREAS 45d (4-Acid) Meas										43			0.469	0.037	0.05
OREAS 45d (4-Acid) Cert										49.30			0.773	0.042	0.049
OREAS 96 (4 Acid) Meas									92.6						4.18
OREAS 96 (4 Acid) Cert									101						4.19
OREAS 923 (4 Acid) Meas										14			0.408	0.068	0.75
OREAS 923 (4 Acid) Cert										13.1			0.405	0.0630	0.691
OREAS 621 (4 Acid) Meas										5			0.174	0.035	4.70
OREAS 621 (4 Acid) Cert										6.24			0.149	0.0359	4.48
Oreas 77b (4 Acid) Meas										3			0.0595		
Oreas 77b (4 Acid) Cert										3.51			0.0640		
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
OREAS 681 (4 Acid) Meas										26			0.420	0.127	0.10
OREAS 681 (4 Acid) Cert										27.7			0.588	0.141	0.109
OREAS 147 (4 Acid) Meas										11			0.336	0.098	0.02
OREAS 147 (4 Acid) Cert										10.7			0.470	0.155	0.0300
Oreas 521 (4 Acid) Meas										13			0.422	0.080	1.67
Oreas 521 (4 Acid) Cert										14			0.393	0.081	1.80
OREAS 70b (4 Acid) Meas										11			0.175	0.022	0.29
OREAS 70b (4 Acid) Cert										12			0.181	0.022	0.31
829469 Orig															
829469 Dup															
829483 Orig															
829483 Dup															
829492 Orig															
829492 Dup															
829504 Orig															
829504 Dup															
829517 Orig															
829517 Split PREP DUP															
829518 Orig															
829518 Dup															
829526 Orig															
829526 Dup															
829528 Orig	< 0.1	0.1	0.8	0.1	0.4	0.7	< 0.001	0.39	7.4	5	3.5	1.8	0.129	0.029	0.65
829528 Dup	< 0.1	0.1	0.8	0.1	0.4	0.7	< 0.001	0.38	7.1	5	3.4	1.8	0.134	0.031	0.68
829547 Orig															
829547 Split PREP DUP															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank										< 1			< 0.0005	< 0.001	< 0.01
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
													0.0005		
Method Blank										< 1			0.0005	< 0.001	< 0.01



Harte Gold Corp.
 161 Bay Street
 Suite 2400
 Toronto Ontario M5J 2S1
 Canada

Report No.: A21-18548
 Report Date: 01-Nov-21
 Date Submitted: 04-Oct-21
 Your Reference: Exploration/Prospecting

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

57 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-Tbay-Harte Gold	QOP AA-Au (Au - Fire Assay AA)	2021-10-06 15:09:24

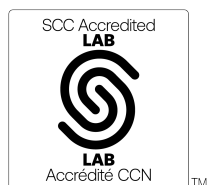
REPORT **A21-18548**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 673

ACTIVATION LABORATORIES LTD.
 1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
 TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
 E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Emmanuel Eseme, Ph.D.
 Quality Control Coordinator

Report No.: A21-18548
Report Date: 01-Nov-21
Date Submitted: 04-Oct-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

57 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
UT-6	QOP Total/QOP Ultratrace- 4acid Digest (Total Digestion ICPOES/ICPMS)	2021-10-15 09:05:56

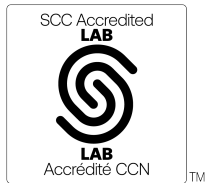
REPORT A21-18548

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 266

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829411	< 5																						
829412	< 5																						
829413	8																						
829414	< 5																						
829415	8																						
829416	6																						
829417	< 5																						
829418	6																						
829419	38																						
829420	6660																						
829421	< 5																						
829422	< 5																						
829423	< 5																						
829424	< 5																						
829425	< 5	34.3	0.30	2.53	4.26	0.21	4.94	0.4	100	100	877	15.1	0.9	55.9	1.2	0.5	0.4	0.24	8.93	27.2	1.10	0.74	1.2
829426	21																						
829427	12																						
829428	< 5																						
829429	6																						
829430	< 5																						
829431	< 5																						
829432	6																						
829433	< 5																						
829434	10																						
829435	14																						
829436	< 5																						
829437	< 5																						
829438	< 5																						
829439	< 5																						
829440	3510																						
829441	< 5																						
829442	< 5																						
829443	< 5																						
829444	5																						
829445	10																						
829446	< 5																						
829447	< 5																						
829448	< 5																						
829449	< 5																						
829450	< 5																						
829451	< 5																						
829452	6																						
829453	< 5																						
829454	< 5																						
829455	< 5																						
829456	5																						
829457	< 5																						
829458	5																						
829459	5																						
829460	5480																						
829461	< 5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829462	< 5																						
829463	< 5																						
829464	< 5																						
829465	< 5																						
829466	< 5																						
829467	< 5																						

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829411																							
829412																							
829413																							
829414																							
829415																							
829416																							
829417																							
829418																							
829419																							
829420																							
829421																							
829422																							
829423																							
829424																							
829425	252	12.0	< 0.1	16.2	11.1	42.3	31	1.9	2.36	0.3	3	< 0.1	0.1	102	7.5	16.8	2.0	8.9	1.7	2.1	0.4	2.1	233
829426																							
829427																							
829428																							
829429																							
829430																							
829431																							
829432																							
829433																							
829434																							
829435																							
829436																							
829437																							
829438																							
829439																							
829440																							
829441																							
829442																							
829443																							
829444																							
829445																							
829446																							
829447																							
829448																							
829449																							
829450																							
829451																							
829452																							
829453																							
829454																							
829455																							
829456																							
829457																							
829458																							
829459																							
829460																							
829461																							

Results

Activation Laboratories Ltd.

Report: A21-18548

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829462																							
829463																							
829464																							
829465																							
829466																							
829467																							

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
829411															
829412															
829413															
829414															
829415															
829416															
829417															
829418															
829419															
829420															
829421															
829422															
829423															
829424															
829425	0.2	0.2	1.1	0.2	0.1	0.4	0.001	0.15	1.5	12	0.7	0.2	0.261	0.045	0.59
829426															
829427															
829428															
829429															
829430															
829431															
829432															
829433															
829434															
829435															
829436															
829437															
829438															
829439															
829440															
829441															
829442															
829443															
829444															
829445															
829446															
829447															
829448															
829449															
829450															
829451															
829452															
829453															
829454															
829455															
829456															
829457															
829458															
829459															
829460															
829461															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
829462															
829463															
829464															
829465															
829466															
829467															

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se	Zn
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Oreas 72a (4 Acid) Meas									178		10.2		> 5000						167				
Oreas 72a (4 Acid) Cert									228		9.63		6930.000						157				
OREAS 101b (4 Acid) Meas			1.23		2.58			74		971	9.63		10.2	14.5		5.2			47.8	7.56			
OREAS 101b (4 Acid) Cert			1.23		2.36			77		927	10.7		8.2	15		5.2			45	8.1			
OREAS 101b (4 Acid) Meas			1.18		2.21			63		883	9.97		9.0	13.6		4.7			43.4	6.59			
OREAS 101b (4 Acid) Cert			1.23		2.36			77		927	10.7		8.2	15		5.2			45	8.1			
OREAS 98 (4 Acid) Meas																	43.1		128		90.5	170	1200
OREAS 98 (4 Acid) Cert																	45.1		121		97.2	158	1360
OREAS 98 (4 Acid) Meas																	47.4		117		97.2	174	1310
OREAS 98 (4 Acid) Cert																	45.1		121		97.2	158	1360
OREAS 13b (4-Acid) Meas																							
OREAS 13b (4-Acid) Cert																							
OREAS 904 (4 Acid) Meas																							
OREAS 904 (4 Acid) Cert																							
OREAS 45d (4-Acid) Meas																							
OREAS 45d (4-Acid) Cert																							
OREAS 96 (4 Acid) Meas																	11.0		48.4		27.7	41.4	475
OREAS 96 (4 Acid) Cert																	11.5		49.9		26.3	40.7	457
OREAS 96 (4 Acid) Meas																	10.5		51.4		28.1	42.5	467
OREAS 96 (4 Acid) Cert																	11.5		49.9		26.3	40.7	457
OREAS 923 (4 Acid) Meas	33.8	0.33	1.74	7.25	2.44	0.51	0.4	95	73	933	6.60	3.7	41.6	2.8	2.4	1.1	2.11	7.05	24.7	1.35	22.0	6.2	353
OREAS 923 (4 Acid) Cert	31.4	0.324	1.69	7.29	2.51	0.473	0.420	91.0	71.0	950	6.43	3.42	35.8	2.86	2.42	0.960	1.60	6.70	23.1	1.37	21.4	6.54	345
OREAS 621 (4 Acid) Meas																							
OREAS 621 (4 Acid) Cert																							
Oreas 77b (4 Acid) Meas																							
Oreas 77b (4 Acid) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se	Zn
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
Oreas 521 (4 Acid) Meas																							
Oreas 521 (4 Acid) Cert																							
OREAS 70b (4 Acid) Meas																							
OREAS 70b (4 Acid) Cert																							
829412 Orig																							
829412 Dup																							
829425 Orig	33.3	0.29	2.34	4.13	0.20	4.64	0.4	98	97	855	14.7	0.9	54.1	1.2	0.5	0.4	0.22	8.71	27.2	1.10	0.71	1.2	256
829425 Dup	35.3	0.32	2.72	4.39	0.23	5.24	0.4	102	104	900	15.5	0.9	57.6	1.3	0.6	0.5	0.26	9.14	27.3	1.11	0.77	1.2	248
829426 Orig																							
829426 Dup																							
829435 Orig																							
829435 Dup																							
829447 Orig																							
829447 Dup																							
829459 Split PREP DUP																							
829461 Orig																							
829461 Dup																							
829467 Orig																							

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se	Zn	
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1	0.2	
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	
829467 Split PREP DUP																								
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	3	3	9	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1	1.5	
Method Blank	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	3	8	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1	< 0.2	
Method Blank																								

Analyte Symbol	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu	Ge	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	
Oreas 72a (4 Acid) Meas		6.2																				347		
Oreas 72a (4 Acid) Cert		14.7																					316	
OREAS 101b (4 Acid) Meas				113				16.9						711	1290	113	360	36.1	37.2	4.7	26.4	447		
OREAS 101b (4 Acid) Cert				133				20.1						754	1325	127	388	48	40	5.4	27	412		
OREAS 101b (4 Acid) Meas				122				18.8						739	1330	109	384	45.8	36.4	4.2	24.0	413		
OREAS 101b (4 Acid) Cert				133				20.1						754	1325	127	388	48	40	5.4	27	412		
OREAS 98 (4 Acid) Meas										> 200	9.8												> 10000	
OREAS 98 (4 Acid) Cert										206	20.1												14800 0.0	
OREAS 98 (4 Acid) Meas										> 200	10.5												> 10000	
OREAS 98 (4 Acid) Cert										206	20.1												14800 0.0	
OREAS 13b (4-Acid) Meas																								
OREAS 13b (4-Acid) Cert																								
OREAS 904 (4 Acid) Meas																								
OREAS 904 (4 Acid) Cert																								
OREAS 45d (4-Acid) Meas																								
OREAS 45d (4-Acid) Cert																								
OREAS 96 (4 Acid) Meas										66	5.2												> 10000	
OREAS 96 (4 Acid) Cert										65.6	5.09												39300	
OREAS 96 (4 Acid) Meas										63	4.9												> 10000	
OREAS 96 (4 Acid) Cert										65.6	5.09												39300	
OREAS 923 (4 Acid) Meas	19.2	6.9	161	26.8	45.6	121	13.8	1.05	0.6	15	1.4		403	44.3	85.0	10.0	39.3	5.8	5.8	0.8	5.0	4620		
OREAS 923 (4 Acid) Cert	20.3	7.61	166	26.4	43.0	116	14.1	0.930	0.520	13.3	1.29		434	42.2	83.0	9.58	35.4	6.64	5.73	0.850	5.05	4230		
OREAS 621 (4 Acid) Meas																								
OREAS 621 (4 Acid) Cert																								
Oreas 77b (4 Acid) Meas																								
Oreas 77b (4 Acid) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								

Analyte Symbol	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu	Ge
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
Oreas 521 (4 Acid) Meas																							
Oreas 521 (4 Acid) Cert																							
OREAS 70b (4 Acid) Meas																							
OREAS 70b (4 Acid) Cert																							
829412 Orig																							
829412 Dup																							
829425 Orig	12.0	< 0.1	15.6	10.7	41.3	29	1.9	2.34	0.3	3	< 0.1	0.1	99	7.5	16.5	2.0	8.7	1.8	2.1	0.3	2.1	229	0.2
829425 Dup	11.9	< 0.1	16.9	11.4	43.4	32	1.9	2.38	0.3	3	< 0.1	0.1	105	7.6	17.2	2.1	9.1	1.6	2.2	0.4	2.1	238	0.2
829426 Orig																							
829426 Dup																							
829435 Orig																							
829435 Dup																							
829447 Orig																							
829447 Dup																							
829459 Split PREP DUP																							
829461 Orig																							
829461 Dup																							
829467 Orig																							

Analyte Symbol	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu	Ge
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829467 Split PREP DUP																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	0.5	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.22	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	1.1	< 0.1
Method Blank	0.2	0.4	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1
Method Blank																							

Analyte Symbol	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppb
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01	5
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP	FA-AA
Oreas 72a (4 Acid) Meas															1.60
Oreas 72a (4 Acid) Cert															1.74
OREAS 101b (4 Acid) Meas	2.2	12.8	1.8					23.8		38.1	318	0.332	0.107		
OREAS 101b (4 Acid) Cert	2.08	13.9	1.96					23		36.4	387	0.35			
OREAS 101b (4 Acid) Meas	2.0	12.5	1.8					22.0		35.2	382				
OREAS 101b (4 Acid) Cert	2.08	13.9	1.96					23		36.4	387				
OREAS 98 (4 Acid) Meas								312							14.9
OREAS 98 (4 Acid) Cert								345							15.5
OREAS 98 (4 Acid) Meas								317							
OREAS 98 (4 Acid) Cert								345							
OREAS 13b (4-Acid) Meas															1.13
OREAS 13b (4-Acid) Cert															1.2
OREAS 904 (4 Acid) Meas									12				0.101	0.07	
OREAS 904 (4 Acid) Cert									11.2				0.0980	0.0630	
OREAS 45d (4-Acid) Meas									43			0.469	0.037	0.05	
OREAS 45d (4-Acid) Cert									49.30			0.773	0.042	0.049	
OREAS 96 (4 Acid) Meas								98.1							4.18
OREAS 96 (4 Acid) Cert								101							4.19
OREAS 96 (4 Acid) Meas								92.6							
OREAS 96 (4 Acid) Cert								101							
OREAS 923 (4 Acid) Meas	0.4	2.7	0.4	1.2	4.4		0.88	84.7	14	18.5	3.2	0.408	0.068	0.75	
OREAS 923 (4 Acid) Cert	0.410	2.57	0.390	1.11	4.85		0.860	83.0	13.1	16.5	3.06	0.405	0.0630	0.691	
OREAS 621 (4 Acid) Meas									5			0.174	0.035	4.70	
OREAS 621 (4 Acid) Cert									6.24			0.149	0.0359	4.48	
Oreas 77b (4 Acid) Meas									3			0.0595			
Oreas 77b (4 Acid) Cert									3.51			0.0640			
OREAS 228b (Fire Assay) Meas															8260
OREAS 228b (Fire Assay) Cert															8570
OREAS 228b (Fire Assay) Meas															8750

Analyte Symbol	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppb
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01	5
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP	FA-AA
OREAS 228b (Fire Assay) Cert															8570
OREAS 228b (Fire Assay) Meas															8730
OREAS 228b (Fire Assay) Cert															8570
OREAS 228b (Fire Assay) Meas															8530
OREAS 228b (Fire Assay) Cert															8570
Oreas E1336 (Fire Assay) Meas															504
Oreas E1336 (Fire Assay) Cert															510
Oreas E1336 (Fire Assay) Meas															522
Oreas E1336 (Fire Assay) Cert															510
Oreas E1336 (Fire Assay) Meas															501
Oreas E1336 (Fire Assay) Cert															510
Oreas E1336 (Fire Assay) Meas															508
Oreas E1336 (Fire Assay) Cert															510
OREAS 681 (4 Acid) Meas									26			0.420	0.127	0.10	
OREAS 681 (4 Acid) Cert									27.7			0.588	0.141	0.109	
OREAS 147 (4 Acid) Meas									11			0.336	0.098	0.02	
OREAS 147 (4 Acid) Cert									10.7			0.470	0.155	0.0300	
Oreas 521 (4 Acid) Meas									13			0.422	0.080	1.67	
Oreas 521 (4 Acid) Cert									14			0.393	0.081	1.80	
OREAS 70b (4 Acid) Meas									11			0.175	0.022	0.29	
OREAS 70b (4 Acid) Cert									12			0.181	0.022	0.31	
829412 Orig															< 5
829412 Dup															< 5
829425 Orig	0.2	1.0	0.2	0.1	0.4	0.001	0.15	1.5	12	0.7	0.2	0.265	0.044	0.58	
829425 Dup	0.2	1.1	0.1	0.1	0.4	0.002	0.15	1.6	12	0.7	0.2	0.257	0.045	0.59	
829426 Orig															19
829426 Dup															22
829435 Orig															14
829435 Dup															13
829447 Orig															< 5
829447 Dup															< 5
829459 Split PREP DUP															< 5
829461 Orig															< 5
829461 Dup															5
829467 Orig															< 5

Analyte Symbol	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppb
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01	5
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP	FA-AA
829467 Split PREP DUP															< 5
Method Blank															< 5
Method Blank															< 5
Method Blank															< 5
Method Blank															< 5
Method Blank															< 5
Method Blank															< 5
Method Blank															< 5
Method Blank															< 5
Method Blank															< 5
Method Blank									< 1			< 0.0005	< 0.001	< 0.01	
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01	
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1				
Method Blank									< 1			< 0.0005	< 0.001	< 0.01	



Harte Gold Corp.
 161 Bay Street
 Suite 2400
 Toronto Ontario M5J 2S1
 Canada

Report No.: A21-18549
 Report Date: 06-Oct-21
 Date Submitted: 04-Oct-21
 Your Reference: Exploration/Prospecting

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

46 Rock samples were submitted for analysis.

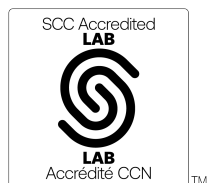
The following analytical package(s) were requested:		Testing Date:
1A2-Tbay-Harte Gold	QOP AA-Au (Au - Fire Assay AA)	2021-10-06 15:09:24

REPORT **A21-18549**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3



LabID: 673

ACTIVATION LABORATORIES LTD.
 1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
 TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
 E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Emmanuel Esemé, Ph.D.
 Quality Control Coordinator

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
829216	< 5
829217	< 5
829218	< 5
829219	< 5
829220	5470
829221	6
829222	6
829223	7
829224	6
829225	< 5
829226	< 5
829227	6
829228	8
829229	10
829230	< 5
829231	6
829232	8
829233	8
829234	15
829235	13
829236	6
829237	< 5
829238	13
829239	< 5
829240	6750
829241	6
829242	< 5
829243	8
829244	< 5
829245	< 5
829246	< 5
829247	< 5
829248	17
829249	< 5
829250	< 5
829251	< 5
829252	< 5
829253	< 5
829254	< 5
829255	< 5
829256	< 5
829257	< 5
829258	< 5
829259	< 5
829260	3640
829261	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OREAS 228b (Fire Assay) Meas	8750
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8730
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8530
OREAS 228b (Fire Assay) Cert	8570
Oreas E1336 (Fire Assay) Meas	522
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	501
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	508
Oreas E1336 (Fire Assay) Cert	510
829216 Orig	< 5
829216 Dup	< 5
829228 Orig	8
829228 Dup	8
829242 Orig	< 5
829242 Dup	< 5
829261 Orig	< 5
829261 Split PREP DUP	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5



Report No.: A21-18553
Report Date: 07-Oct-21
Date Submitted: 04-Oct-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

149 Rock samples were submitted for analysis.

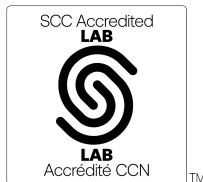
Table with 2 columns: The following analytical package(s) were requested: and Testing Date:
1A2-Tbay-Harte Gold | QOP AA-Au (Au - Fire Assay AA) | 2021-10-06 10:26:35

REPORT A21-18553

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3



LabID: 673

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Handwritten signature of Emmanuel Eseme

Emmanuel Eseme, Ph.D.
Quality Control Coordinator

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
829262	< 5
829263	13
829264	< 5
829265	< 5
829266	< 5
829267	< 5
829268	< 5
829269	< 5
829270	< 5
829271	< 5
829272	< 5
829273	< 5
829274	< 5
829275	< 5
829276	< 5
829277	< 5
829278	< 5
829279	< 5
829280	5500
829281	< 5
829282	< 5
829283	< 5
829284	< 5
829285	< 5
829286	< 5
829287	< 5
829288	< 5
829289	< 5
829290	< 5
829291	< 5
829292	< 5
829293	< 5
829294	< 5
829295	< 5
829296	5
829297	< 5
829298	6
829299	< 5
829300	6610
829301	20
829302	< 5
829303	6
829304	< 5
829305	5
829306	< 5
829307	< 5
829308	< 5
829309	< 5
829310	< 5
829311	< 5
829312	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
829313	< 5
829314	< 5
829315	24
829316	< 5
829317	< 5
829318	39
829319	< 5
829320	3340
829321	5
829322	< 5
829323	< 5
829324	< 5
829325	< 5
829326	< 5
829327	5
829328	< 5
829329	< 5
829330	< 5
829331	< 5
829332	< 5
829333	< 5
829334	< 5
829335	< 5
829336	< 5
829337	< 5
829338	< 5
829339	< 5
829340	5540
829341	< 5
829342	< 5
829343	< 5
829344	< 5
829345	< 5
829346	< 5
829347	5
829348	< 5
829349	< 5
829350	< 5
829351	< 5
829352	< 5
829353	< 5
829354	< 5
829355	< 5
829356	< 5
829357	< 5
829358	< 5
829359	< 5
829360	6770
829361	< 5
829362	< 5
829363	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
829364	< 5
829365	< 5
829366	< 5
829367	< 5
829368	5
829369	< 5
829370	< 5
829371	< 5
829372	< 5
829373	< 5
829374	< 5
829375	< 5
829376	< 5
829377	< 5
829378	< 5
829379	< 5
829380	3540
829381	< 5
829382	< 5
829383	< 5
829384	< 5
829385	< 5
829386	< 5
829387	< 5
829388	< 5
829389	< 5
829390	< 5
829391	< 5
829392	< 5
829393	< 5
829394	< 5
829395	< 5
829396	13
829397	47
829398	< 5
829399	< 5
829400	5480
829401	< 5
829402	< 5
829403	< 5
829404	< 5
829405	< 5
829406	< 5
829407	< 5
829408	< 5
829409	< 5
829410	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OREAS 228b (Fire Assay) Meas	8310
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8260
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8560
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8570
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8740
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8730
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8360
OREAS 228b (Fire Assay) Cert	8570
Oreas E1336 (Fire Assay) Meas	509
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	504
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	524
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	504
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	514
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	505
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	503
Oreas E1336 (Fire Assay) Cert	510
829263 Orig	13
829263 Dup	12

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
829277 Orig	< 5
829277 Dup	< 5
829286 Orig	9
829286 Dup	< 5
829298 Orig	6
829298 Dup	6
829311 Orig	< 5
829311 Split PREP DUP	< 5
829315 Orig	27
829315 Dup	21
829325 Orig	< 5
829325 Dup	< 5
829332 Orig	9
829332 Dup	< 5
829346 Orig	< 5
829346 Dup	9
829355 Orig	< 5
829355 Dup	< 5
829361 Orig	< 5
829361 Split PREP DUP	< 5
829366 Orig	< 5
829366 Dup	< 5
829381 Orig	< 5
829381 Dup	< 5
829389 Orig	< 5
829389 Dup	< 5
829401 Orig	5
829401 Dup	< 5
829409 Orig	< 5
829409 Split PREP DUP	5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5



Report No.: A21-19048
Report Date: 08-Nov-21
Date Submitted: 08-Oct-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

224 Rock samples were submitted for analysis.

Table with 2 columns: Analytical package(s) requested and Testing Date. Row 1: 1A2-Tbay-Harte Gold, QOP AA-Au (Au - Fire Assay AA), 2021-10-13 12:37:25

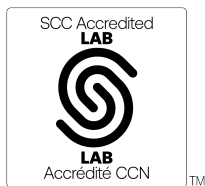
REPORT A21-19048

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 673

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

[Handwritten signature]

Emmanuel Eseme, Ph.D.
Quality Control Coordinator

Report No.: A21-19048
Report Date: 08-Nov-21
Date Submitted: 08-Oct-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

224 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
UT-6	QOP Total/QOP Ultratrace- 4acid Digest (Total Digestion ICPOES/ICPMS)	2021-11-02 11:04:57

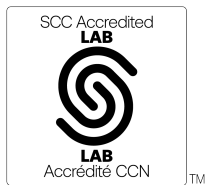
REPORT A21-19048

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 266

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829662	6	28.9	> 3.00	0.59	8.45	1.48	1.64	< 0.1	64	51	540	2.55	1.9	25.3	0.6	0.7	0.2	0.06	2.51	9.3	0.82	0.06	0.3
829663	< 5	53.6	2.99	0.88	8.55	1.53	2.34	0.1	67	34	646	3.42	2.2	27.3	0.7	0.9	0.3	0.07	2.56	11.6	0.86	0.15	0.4
829664	< 5	53.3	> 3.00	1.26	8.07	1.08	3.09	< 0.1	137	48	823	4.71	1.4	44.9	1.3	1.0	0.5	0.07	2.15	24.6	0.99	0.25	0.3
829665	< 5	30.2	> 3.00	0.38	7.97	1.28	1.67	< 0.1	57	30	286	1.37	1.7	10.1	0.6	0.8	0.2	0.12	2.40	6.9	0.82	0.03	0.3
829666	< 5	30.2	> 3.00	0.53	7.84	1.37	2.16	< 0.1	107	39	790	2.64	1.6	24.1	1.0	0.8	0.4	0.07	2.47	20.6	0.93	0.10	0.3
829667	< 5	42.3	> 3.00	1.15	8.13	1.67	2.30	0.1	66	57	730	2.60	1.9	49.5	0.7	1.1	0.3	< 0.05	2.49	11.7	1.09	0.11	0.3
829668	< 5	24.6	> 3.00	0.26	8.10	1.97	2.37	0.1	58	27	530	1.98	1.9	12.3	0.6	0.8	0.2	0.07	2.68	7.6	0.74	0.12	0.4
829669	< 5	25.0	> 3.00	0.26	8.76	1.32	2.26	0.2	58	29	389	1.84	2.1	10.5	0.6	1.0	0.2	0.14	2.72	6.9	0.69	0.09	0.5
829670	< 5																						
829671	< 5																						
829672	< 5																						
829673	< 5																						
829674	< 5																						
829675	< 5																						
829676	< 5																						
829677	< 5																						
829678	< 5																						
829679	< 5	14.2	> 3.00	0.22	8.07	1.75	0.79	< 0.1	10	9	253	0.83	1.8	4.0	0.4	2.4	0.1	0.09	3.93	1.2	0.32	0.04	0.4
829680	3620	19.0	1.87	4.22	6.63	0.45	6.00	0.2	248	390	1110	7.01	1.5	134	1.9	0.5	0.6	0.83	0.32	41.3	0.70	0.30	0.7
829681	< 5	22.0	> 3.00	0.35	7.62	0.65	1.10	0.2	11	14	205	1.10	2.2	3.2	0.3	12.0	0.1	0.16	3.41	2.2	0.38	0.06	0.6
829682	< 5																						
829683	< 5																						
829684	< 5																						
829685	5																						
829686	< 5																						
829687	< 5																						
829688	< 5																						
829689	< 5																						
829690	< 5																						
829691	< 5																						
829692	< 5																						
829693	< 5																						
829694	7																						
829695	< 5																						
829696	6																						
829697	< 5																						
829698	< 5																						
829699	< 5																						
829700	5330																						
829701	< 5																						
829702	< 5																						
829703	< 5																						
829704	< 5																						
829705	< 5																						
829706	< 5																						
829707	< 5																						
829708	< 5																						
829709	< 5																						
829710	< 5																						
829711	< 5																						
829712	< 5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829713	< 5																						
829714	< 5																						
829715	< 5																						
829716	< 5																						
829717	< 5																						
829718	< 5																						
829719	< 5																						
829720	6610																						
829721	< 5																						
829722	< 5																						
829723	< 5																						
829724	< 5																						
829725	5																						
829726	< 5																						
829727	< 5																						
829728	< 5																						
829729	5																						
829730	< 5																						
829731	< 5																						
829732	< 5																						
829733	6																						
829734	< 5																						
829735	< 5																						
829736	< 5																						
829737	< 5																						
829738	< 5																						
829739	< 5																						
829740	3520																						
829741	6																						
829742	< 5																						
829743	< 5																						
829744	< 5																						
829745	< 5																						
829746	< 5																						
829747	< 5																						
829748	< 5																						
829749	< 5																						
829750	< 5																						
829751	< 5																						
829752	6																						
829753	< 5																						
829754	< 5																						
829755	< 5																						
829756	< 5																						
829757	< 5																						
829758	< 5																						
829759	< 5																						
829760	5360																						
829761	< 5																						
829762	< 5																						
829763	< 5																						

Results

Activation Laboratories Ltd.

Report: A21-19048

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829764	< 5																						
829765	< 5																						
829766	< 5																						
829767	< 5																						
829768	< 5	24.0	> 3.00	0.35	8.81	1.33	1.41	0.1	15	18	271	0.98	2.1	11.5	0.8	1.6	0.3	0.11	2.51	2.7	0.38	0.43	0.3
829769	< 5																						
829770	< 5																						
829771	< 5																						
829772	< 5																						
829773	< 5																						
829774	< 5																						
829775	< 5																						
829776	< 5																						
829777	< 5																						
829778	< 5																						
829779	< 5																						
829780	6620																						
829781	< 5																						
829782	< 5																						
829783	< 5	26.4	> 3.00	1.01	7.91	1.03	2.20	0.2	42	50	404	2.00	1.8	34.1	0.9	1.6	0.3	0.12	2.21	9.6	0.38	0.63	0.3
829784	< 5																						
829785	< 5																						
829786	< 5																						
829787	< 5																						
829788	< 5																						
829789	< 5	18.6	> 3.00	0.48	7.57	0.89	2.00	< 0.1	34	25	347	1.79	2.2	6.4	0.6	1.1	0.2	0.09	4.24	5.5	0.50	0.36	0.4
829790	< 5	35.8	3.00	0.15	7.52	4.02	1.29	< 0.1	13	12	189	1.37	4.5	0.9	0.5	1.0	0.2	0.13	1.47	2.0	0.44	0.05	0.3
829791	< 5	24.1	> 3.00	0.53	8.23	0.57	2.11	< 0.1	35	17	215	1.77	2.5	8.1	0.7	1.5	0.2	0.20	2.50	6.2	0.54	1.27	0.8
829792	< 5																						
829793	< 5																						
829794	< 5	24.9	1.92	5.06	7.40	0.65	8.09	0.2	210	401	1390	7.51	0.6	216	1.5	0.4	0.5	0.13	3.35	57.2	0.61	1.83	0.5
829795	< 5																						
829796	< 5																						
829797	< 5																						
829798	< 5																						
829799	< 5																						
829800	3540																						
829801	< 5																						
829802	6																						
829803	< 5																						
829804	17																						
829805	< 5																						
829806	< 5																						
829807	< 5																						
829808	< 5																						
829809	< 5	60.4	2.71	2.05	8.54	0.95	3.66	< 0.1	73	112	673	3.46	2.8	56.0	1.1	0.8	0.4	0.09	3.54	15.9	0.79	0.21	0.4
829810	< 5																						
829811	< 5																						
829812	< 5																						
829813	5																						
829814	< 5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829815	< 5																						
829816	< 5																						
829817	< 5																						
829818	< 5																						
829819	< 5																						
829820	5500																						
829821	< 5																						
829822	< 5																						
829823	< 5																						
829824	< 5																						
829825	< 5																						
829826	< 5																						
829827	< 5																						
829828	< 5																						
829829	< 5																						
829830	5																						
829831	< 5																						
829832	< 5																						
829833	< 5																						
829834	< 5																						
829835	< 5																						
829836	< 5																						
829837	< 5																						
829838	< 5																						
829839	< 5																						
829840	6570																						
829841	< 5																						
829842	< 5	6.0	> 3.00	0.14	8.46	2.06	1.13	0.2	6	28	139	0.81	3.0	6.5	0.7	2.2	0.2	0.23	3.87	1.1	0.32	0.23	0.7
829843	< 5																						
829844	< 5																						
829845	< 5																						
829846	< 5																						
829847	< 5																						
829848	< 5																						
829849	< 5																						
829850	< 5																						
829851	< 5																						
829852	< 5																						
829853	< 5																						
829854	< 5																						
829855	< 5																						
829856	< 5																						
829857	< 5																						
829858	< 5																						
829859	< 5																						
829860	3540																						
829861	< 5																						
829862	< 5																						
829863	< 5																						
829864	< 5																						
829865	< 5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829866	< 5																						
829867	< 5																						
829868	< 5																						
829869	< 5																						
829870	< 5																						
829871	< 5																						
829872	6																						
829873	6																						
829874	< 5																						
829875	< 5																						
829876	< 5																						
829877	< 5																						
829878	7																						
829879	5																						
829880	5530																						
829881	5																						
829882	< 5																						
829883	< 5																						
829884	< 5																						
829885	< 5																						

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829662	22.8	14.5	0.5	54.3	6.0	354	67	0.7	0.93	< 0.1	< 1	< 0.1	< 0.1	462	16.0	34.8	4.2	15.6	2.8	1.9	0.2	1.2	23.2
829663	80.6	14.3	1.2	73.2	7.1	446	77	2.8	1.41	< 0.1	< 1	< 0.1	< 0.1	658	16.8	37.4	4.4	16.6	3.1	2.2	0.3	1.4	29.5
829664	62.0	17.7	0.4	46.6	12.3	457	51	1.0	0.81	< 0.1	< 1	< 0.1	< 0.1	421	17.0	37.3	4.6	17.7	3.3	2.8	0.4	2.2	43.6
829665	31.1	16.2	0.4	35.4	6.9	400	74	0.4	1.30	< 0.1	< 1	< 0.1	< 0.1	308	16.4	38.6	4.6	17.2	2.8	2.1	0.3	1.4	19.8
829666	32.4	16.8	1.3	39.8	10.2	403	61	0.4	0.77	< 0.1	< 1	< 0.1	< 0.1	373	17.3	39.4	4.7	18.4	3.3	2.5	0.3	1.9	38.5
829667	70.7	15.0	0.3	58.3	7.4	414	74	0.6	1.04	< 0.1	< 1	< 0.1	< 0.1	479	25.7	56.4	6.6	24.7	4.2	2.9	0.3	1.5	15.3
829668	80.2	16.8	0.7	58.4	5.6	530	70	2.0	1.03	< 0.1	< 1	< 0.1	< 0.1	569	15.8	35.0	4.0	14.7	2.2	1.7	0.2	1.1	20.7
829669	91.9	18.2	< 0.1	46.5	5.9	522	76	3.0	1.33	< 0.1	< 1	< 0.1	< 0.1	385	14.2	32.1	3.7	13.7	2.0	1.7	0.2	1.1	33.1
829670																							
829671																							
829672																							
829673																							
829674																							
829675																							
829676																							
829677																							
829678																							
829679	16.4	16.3	0.6	109	4.6	119	37	5.5	0.97	< 0.1	< 1	< 0.1	< 0.1	619	4.4	13.4	1.5	5.7	1.3	1.0	0.2	0.9	11.8
829680	77.8	13.1	31.0	15.6	16.4	104	48	1.7	2.68	< 0.1	< 1	0.2	< 0.1	200	4.6	10.5	1.5	6.4	2.3	2.5	0.5	3.0	142
829681	53.5	20.3	1.0	37.9	3.8	160	47	9.3	1.60	< 0.1	2	< 0.1	< 0.1	245	5.2	14.0	1.7	6.5	1.4	1.1	0.1	0.7	14.4
829682																							
829683																							
829684																							
829685																							
829686																							
829687																							
829688																							
829689																							
829690																							
829691																							
829692																							
829693																							
829694																							
829695																							
829696																							
829697																							
829698																							
829699																							
829700																							
829701																							
829702																							
829703																							
829704																							
829705																							
829706																							
829707																							
829708																							
829709																							
829710																							
829711																							
829712																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829713																							
829714																							
829715																							
829716																							
829717																							
829718																							
829719																							
829720																							
829721																							
829722																							
829723																							
829724																							
829725																							
829726																							
829727																							
829728																							
829729																							
829730																							
829731																							
829732																							
829733																							
829734																							
829735																							
829736																							
829737																							
829738																							
829739																							
829740																							
829741																							
829742																							
829743																							
829744																							
829745																							
829746																							
829747																							
829748																							
829749																							
829750																							
829751																							
829752																							
829753																							
829754																							
829755																							
829756																							
829757																							
829758																							
829759																							
829760																							
829761																							
829762																							
829763																							

Results

Activation Laboratories Ltd.

Report: A21-19048

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829764																							
829765																							
829766																							
829767																							
829768	16.5	14.3	1.4	39.4	8.1	152	41	5.3	1.75	< 0.1	< 1	< 0.1	< 0.1	852	8.8	21.8	2.6	8.9	2.2	1.7	0.3	1.5	34.7
829769																							
829770																							
829771																							
829772																							
829773																							
829774																							
829775																							
829776																							
829777																							
829778																							
829779																							
829780																							
829781																							
829782																							
829783	91.2	14.8	0.7	32.5	8.3	133	40	4.5	11.1	< 0.1	< 1	< 0.1	0.1	534	8.0	19.5	2.4	8.0	2.4	1.6	0.3	1.4	48.4
829784																							
829785																							
829786																							
829787																							
829788																							
829789	37.5	15.1	0.3	40.9	6.0	359	68	3.6	0.66	< 0.1	< 1	< 0.1	< 0.1	569	18.2	38.9	4.1	14.0	1.7	1.5	0.2	1.0	38.9
829790	40.5	14.0	0.4	136	4.9	123	163	8.5	0.49	< 0.1	2	< 0.1	< 0.1	795	14.5	44.3	3.4	11.1	2.4	1.5	0.2	1.0	1.8
829791	24.6	15.8	< 0.1	28.5	6.7	341	81	3.2	1.48	< 0.1	< 1	< 0.1	0.6	398	17.3	36.4	4.1	14.0	2.6	1.6	0.2	1.3	92.1
829792																							
829793																							
829794	101	13.6	0.9	30.3	13.1	163	13	0.5	7.77	< 0.1	< 1	< 0.1	0.4	149	5.5	12.5	1.6	6.6	1.8	2.0	0.4	2.4	93.2
829795																							
829796																							
829797																							
829798																							
829799																							
829800																							
829801																							
829802																							
829803																							
829804																							
829805																							
829806																							
829807																							
829808																							
829809	43.3	15.3	0.5	37.0	10.8	328	104	3.0	1.98	< 0.1	1	< 0.1	0.1	314	17.0	37.6	4.6	16.9	3.7	2.5	0.4	2.1	40.9
829810																							
829811																							
829812																							
829813																							
829814																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829815																							
829816																							
829817																							
829818																							
829819																							
829820																							
829821																							
829822																							
829823																							
829824																							
829825																							
829826																							
829827																							
829828																							
829829																							
829830																							
829831																							
829832																							
829833																							
829834																							
829835																							
829836																							
829837																							
829838																							
829839																							
829840																							
829841																							
829842	38.6	18.8	1.1	98.6	6.8	148	76	7.9	18.3	< 0.1	< 1	< 0.1	< 0.1	251	4.5	10.1	1.2	4.8	1.5	1.3	0.2	1.2	74.3
829843																							
829844																							
829845																							
829846																							
829847																							
829848																							
829849																							
829850																							
829851																							
829852																							
829853																							
829854																							
829855																							
829856																							
829857																							
829858																							
829859																							
829860																							
829861																							
829862																							
829863																							
829864																							
829865																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829866																							
829867																							
829868																							
829869																							
829870																							
829871																							
829872																							
829873																							
829874																							
829875																							
829876																							
829877																							
829878																							
829879																							
829880																							
829881																							
829882																							
829883																							
829884																							
829885																							

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
829662	0.4	< 0.1	0.5	< 0.1	< 0.1	< 0.1	0.003	0.26	2.1	8	2.1	0.5	0.218	0.056	0.04
829663	< 0.1	< 0.1	0.6	< 0.1	0.2	0.2	0.003	0.39	3.2	8	2.2	0.6	0.234	0.058	0.10
829664	0.2	0.2	1.2	0.2	< 0.1	0.2	0.003	0.24	3.2	17	2.1	0.6	0.316	0.054	0.13
829665	0.2	< 0.1	0.6	< 0.1	< 0.1	0.1	0.003	0.12	4.3	7	2.2	0.5	0.210	0.065	0.03
829666	0.1	0.1	1.0	0.1	< 0.1	< 0.1	0.003	0.17	3.5	15	2.0	0.5	0.279	0.063	0.17
829667	< 0.1	< 0.1	0.6	< 0.1	< 0.1	< 0.1	0.003	0.23	4.3	8	2.8	0.6	0.245	0.081	0.05
829668	0.3	< 0.1	0.5	< 0.1	< 0.1	0.2	0.002	0.20	14.0	7	2.3	0.9	0.227	0.051	0.11
829669	0.2	< 0.1	0.5	< 0.1	0.2	0.3	0.002	0.16	15.6	6	2.5	1.5	0.210	0.046	0.14
829670															
829671															
829672															
829673															
829674															
829675															
829676															
829677															
829678															
829679	< 0.1	< 0.1	0.4	< 0.1	0.6	0.2	0.003	0.66	10.0	3	2.0	0.9	0.0355	0.021	0.03
829680	0.1	0.3	1.8	0.3	< 0.1	2.3	0.004	0.11	18.1	34	0.9	0.2	0.452	0.035	0.46
829681	< 0.1	< 0.1	0.3	< 0.1	2.7	0.1	0.003	0.25	20.7	2	3.9	2.5	0.0367	0.006	0.07
829682															
829683															
829684															
829685															
829686															
829687															
829688															
829689															
829690															
829691															
829692															
829693															
829694															
829695															
829696															
829697															
829698															
829699															
829700															
829701															
829702															
829703															
829704															
829705															
829706															
829707															
829708															
829709															
829710															
829711															
829712															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
829713															
829714															
829715															
829716															
829717															
829718															
829719															
829720															
829721															
829722															
829723															
829724															
829725															
829726															
829727															
829728															
829729															
829730															
829731															
829732															
829733															
829734															
829735															
829736															
829737															
829738															
829739															
829740															
829741															
829742															
829743															
829744															
829745															
829746															
829747															
829748															
829749															
829750															
829751															
829752															
829753															
829754															
829755															
829756															
829757															
829758															
829759															
829760															
829761															
829762															
829763															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
829764															
829765															
829766															
829767															
829768	< 0.1	0.1	0.8	0.1	0.5	0.4	0.002	0.17	7.9	3	3.3	2.1	0.0427	0.014	0.11
829769															
829770															
829771															
829772															
829773															
829774															
829775															
829776															
829777															
829778															
829779															
829780															
829781															
829782															
829783	< 0.1	0.1	0.8	0.1	0.4	0.4	0.003	0.18	6.6	8	2.6	1.7	0.0935	0.012	0.14
829784															
829785															
829786															
829787															
829788															
829789	< 0.1	< 0.1	0.6	< 0.1	0.3	0.8	0.002	0.23	6.9	4	3.1	1.0	0.140	0.021	0.24
829790	0.2	< 0.1	0.5	< 0.1	0.5	0.1	0.002	0.67	15.4	2	7.5	0.4	0.126	0.020	< 0.01
829791	< 0.1	0.1	0.6	< 0.1	0.3	3.1	0.002	0.16	7.0	4	3.6	1.4	0.144	0.026	0.47
829792															
829793															
829794	0.5	0.2	1.4	0.2	< 0.1	0.2	0.004	0.21	3.2	34	0.6	0.2	0.302	0.017	0.23
829795															
829796															
829797															
829798															
829799															
829800															
829801															
829802															
829803															
829804															
829805															
829806															
829807															
829808															
829809	< 0.1	0.2	1.1	0.1	0.1	0.4	0.003	0.21	4.6	10	2.3	0.6	0.244	0.052	0.09
829810															
829811															
829812															
829813															
829814															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
829815															
829816															
829817															
829818															
829819															
829820															
829821															
829822															
829823															
829824															
829825															
829826															
829827															
829828															
829829															
829830															
829831															
829832															
829833															
829834															
829835															
829836															
829837															
829838															
829839															
829840															
829841															
829842	< 0.1	< 0.1	0.6	< 0.1	1.3	0.2	0.006	0.63	44.6	2	5.0	8.1	0.0266	0.002	0.09
829843															
829844															
829845															
829846															
829847															
829848															
829849															
829850															
829851															
829852															
829853															
829854															
829855															
829856															
829857															
829858															
829859															
829860															
829861															
829862															
829863															
829864															
829865															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
829866															
829867															
829868															
829869															
829870															
829871															
829872															
829873															
829874															
829875															
829876															
829877															
829878															
829879															
829880															
829881															
829882															
829883															
829884															
829885															

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Oreas 72a (4 Acid) Meas										173		9.58		> 5000						158			
Oreas 72a (4 Acid) Cert										228		9.63		6930.000						157			
OREAS 101b (4 Acid) Meas				1.26		2.56			80		929	10.5		7.4	14.8		5.0			45.8	7.79		
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7		8.2	15		5.2			45	8.1		
OREAS 98 (4 Acid) Meas																		44.0		116		99.1	175
OREAS 98 (4 Acid) Cert																		45.1		121		97.2	158
OREAS 13b (4-Acid) Meas										> 5000				2130				0.90		74.3			
OREAS 13b (4-Acid) Cert										8650.000				2247.000				0.86		75			
OREAS 96 (4 Acid) Meas																		11.1		49.3		28.2	42.6
OREAS 96 (4 Acid) Cert																		11.5		49.9		26.3	40.7
OREAS 923 (4 Acid) Meas		32.4	0.34	1.82	8.07	1.90	0.47	0.4	90	79	928	6.54	3.6	37.2	2.7	2.5	0.9	1.69	6.33	22.6	1.23	18.6	6.0
OREAS 923 (4 Acid) Cert		31.4	0.324	1.69	7.29	2.51	0.473	0.420	91.0	71.0	950	6.43	3.42	35.8	2.86	2.42	0.960	1.60	6.70	23.1	1.37	21.4	6.54
OREAS 621 (4 Acid) Meas		13.8	1.33	0.51	6.35	2.01	1.96	280	35	31	483	3.83	4.0	25.7		1.7		65.2	3.18	29.8		4.08	5.2
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41	26.2		1.69		69.0	3.28	29.3		3.93	5.64
Oreas 77b (4 Acid) Meas		16.0	0.37	2.26	1.63	0.32	2.75	1.1	30	224	619	27.4	1.1	> 5000		0.4		1.51	2.10	> 500		3.35	
Oreas 77b (4 Acid) Cert		18.8	0.434	2.59	1.94	0.361	3.06	1.20	33.6	280	640	29.9	1.15	113000		0.470		1.62	2.32	1550		3.44	
OREAS 228b (Fire Assay) Meas	8720																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8390																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8450																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8450																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8670																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8260																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8560																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 228b (Fire Assay) Cert	8570																						
Oreas E1336 (Fire Assay) Meas	508																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	507																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	505																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	496																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	512																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	505																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	507																						
Oreas E1336 (Fire Assay) Cert	510																						
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
OREAS 70b (4 Acid) Meas		33.0	0.79	13.7	3.97	0.57	3.32	0.3	62		1130	5.64	1.8	2100		1.0		0.18	3.27	82.0		0.87	
OREAS 70b (4 Acid) Cert		34.4	0.77	13.4	3.87	0.62	3.05	0.4	67		1150	5.52	1.9	2180		1		0.17	3.44	78.0		0.84	
829663 Orig	< 5																						
829663 Dup	< 5																						
829669 Orig		24.3	> 3.00	0.24	8.23	1.31	2.19	0.2	56	27	377	1.82	2.0	10.3	0.5	1.1	0.2	0.13	2.62	6.8	0.67	0.09	0.3
829669 Dup		25.6	> 3.00	0.27	9.29	1.33	2.33	0.3	60	31	401	1.86	2.1	10.7	0.7	1.0	0.2	0.14	2.82	7.0	0.71	0.10	0.7
829677 Orig	< 5																						
829677 Dup	< 5																						
829686 Orig	5																						
829686 Dup	< 5																						
829698 Orig	< 5																						
829698 Dup	< 5																						
829711 Orig	< 5																						
829711 Split PREP DUP	< 5																						
829711 Split PREP DUP	< 5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	2	6	5	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.3
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	3	1	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.3
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	3	< 1	< 0.01	< 0.1	2.0	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.6

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Oreas 72a (4 Acid) Meas			6.0																				318
Oreas 72a (4 Acid) Cert			14.7																				316
OREAS 101b (4 Acid) Meas					133				20.9						775	1350	127	382	49.3	37.4	4.8	26.0	420
OREAS 101b (4 Acid) Cert					133				20.1						754	1325	127	388	48	40	5.4	27	412
OREAS 98 (4 Acid) Meas	1320										> 200	9.5											> 10000
OREAS 98 (4 Acid) Cert	1360										206	20.1											14800 0.0
OREAS 13b (4-Acid) Meas	141		54.4						9.00														2280
OREAS 13b (4-Acid) Cert	133		57						9.0														2327.0 000
OREAS 96 (4 Acid) Meas	440										66	5.5											> 10000
OREAS 96 (4 Acid) Cert	457										65.6	5.09											39300
OREAS 923 (4 Acid) Meas	338	16.3	8.7	144	25.3	43.6	120	13.4	1.06	0.5	14	1.4		363	40.7	81.0	9.5	33.4	6.1	5.5	0.8	4.8	4490
OREAS 923 (4 Acid) Cert	345	20.3	7.61	166	26.4	43.0	116	14.1	0.930	0.520	13.3	1.29		434	42.2	83.0	9.58	35.4	6.64	5.73	0.850	5.05	4230
OREAS 621 (4 Acid) Meas	> 10000	25.0	76.0	83.9	11.0	65.6	148	9.0	13.7	1.7	5	28.1			17.3	44.7					0.5		3630
OREAS 621 (4 Acid) Cert	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6					0.460		3630
Oreas 77b (4 Acid) Meas	199	4.2	1510	18.5	6.2	35.4	34	2.8		0.1	1	5.2	1.1	22	14.7	25.4							3110
Oreas 77b (4 Acid) Cert	205	4.61	2050	19.1	6.55	34.4	37.9	3.26		0.112	1.59	9.100	1.35	118	15.8	27.7							3430
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 228b (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
OREAS 70b (4 Acid) Meas	109	7.0	144		9.4	77.9	69	3.4	3.10	< 0.1	1	0.6		211	15.0	27.8						49.6	
OREAS 70b (4 Acid) Cert	112	10	148		9.8	74.0	66	3.7	3.30	0.05	1	0.6		202	15.3	28.2						52.0	
829663 Orig																							
829663 Dup																							
829669 Orig	92.2	17.2	0.3	44.2	5.6	504	74	2.9	1.24	< 0.1	< 1	< 0.1	< 0.1	374	13.5	30.8	3.5	13.1	2.0	1.6	0.2	1.1	31.5
829669 Dup	91.6	19.3	< 0.1	48.7	6.2	539	78	3.0	1.41	< 0.1	< 1	< 0.1	< 0.1	396	14.9	33.5	3.9	14.3	2.1	1.8	0.2	1.1	34.6
829677 Orig																							
829677 Dup																							
829686 Orig																							
829686 Dup																							
829698 Orig																							
829698 Dup																							
829711 Orig																							
829711 Split PREP DUP																							
829711 Split PREP DUP																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829721 Orig																							
829721 Dup																							
829732 Orig																							
829732 Dup																							
829746 Orig																							
829746 Dup																							
829755 Orig																							
829755 Dup																							
829761 Orig																							
829761 Split PREP DUP																							
829766 Orig																							
829766 Dup																							
829781 Orig																							
829781 Dup																							
829789 Orig																							
829789 Dup																							
829801 Orig																							
829801 Dup																							
829811 Orig																							
829811 Split PREP DUP																							
829814 Orig																							
829814 Dup																							
829823 Orig																							
829823 Dup																							
829835 Orig																							
829835 Dup																							
829849 Orig																							
829849 Dup																							
829858 Orig																							
829858 Dup																							
829861 Orig																							
829861 Split PREP DUP																							
829869 Orig																							
829869 Dup																							
829883 Orig																							
829883 Dup																							
829885 Orig																							
829885 Split PREP DUP																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	0.4	0.2	0.7	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.3
Method Blank	< 0.2	0.3	0.8	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.11	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	1.2
Method Blank	< 0.2	0.2	1.0	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.07	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Oreas 72a (4 Acid) Meas															1.67
Oreas 72a (4 Acid) Cert															1.74
OREAS 101b (4 Acid) Meas		2.0	13.1	1.8					22.5		38.5	374	0.368	0.116	
OREAS 101b (4 Acid) Cert		2.08	13.9	1.96					23		36.4	387	0.35		
OREAS 98 (4 Acid) Meas									335						16.6
OREAS 98 (4 Acid) Cert									345						15.5
OREAS 13b (4-Acid) Meas															1.18
OREAS 13b (4-Acid) Cert															1.2
OREAS 96 (4 Acid) Meas									97.1						4.35
OREAS 96 (4 Acid) Cert									101						4.19
OREAS 923 (4 Acid) Meas		0.4	2.5	0.4	1.0	5.2		0.84	84.9	13	16.9	2.9	0.421	0.064	0.73
OREAS 923 (4 Acid) Cert		0.410	2.57	0.390	1.11	4.85		0.860	83.0	13.1	16.5	3.06	0.405	0.0630	0.691
OREAS 621 (4 Acid) Meas			0.9	0.1		1.9		2.02	> 5000	6	5.3	2.6	0.188	0.036	4.70
OREAS 621 (4 Acid) Cert			0.990	0.140		2.35		1.96	13600	6.24	7.48	2.83	0.149	0.0359	4.48
Oreas 77b (4 Acid) Meas					0.2	2.7	0.020	1.35	55.6		6.2	1.6			
Oreas 77b (4 Acid) Cert					0.280	3.07	0.0220	1.37	61.0		6.61	1.71			
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
OREAS 228b (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
OREAS 681 (4 Acid) Meas										26			0.573	0.137	0.10
OREAS 681 (4 Acid) Cert										27.7			0.588	0.141	0.109
OREAS 147 (4 Acid) Meas										11			0.248	0.104	0.02
OREAS 147 (4 Acid) Cert										10.7			0.470	0.155	0.0300
OREAS 70b (4 Acid) Meas					0.3	4.5		0.33	12.9	12	6.5	1.6	0.174	0.022	0.30
OREAS 70b (4 Acid) Cert					0.3	4.9		0.33	13.7	12	6.9	1.7	0.181	0.022	0.31
829663 Orig															
829663 Dup															
829669 Orig	0.2	< 0.1	0.5	< 0.1	0.2	0.3	0.002	0.16	15.0	6	2.4	1.5	0.211	0.047	0.14
829669 Dup	0.1	< 0.1	0.6	< 0.1	0.2	0.3	0.003	0.17	16.1	6	2.6	1.6	0.209	0.046	0.14
829677 Orig															
829677 Dup															
829686 Orig															
829686 Dup															
829698 Orig															
829698 Dup															
829711 Orig															
829711 Split PREP DUP															
829711 Split PREP DUP															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
829721 Orig															
829721 Dup															
829732 Orig															
829732 Dup															
829746 Orig															
829746 Dup															
829755 Orig															
829755 Dup															
829761 Orig															
829761 Split PREP DUP															
829766 Orig															
829766 Dup															
829781 Orig															
829781 Dup															
829789 Orig															
829789 Dup															
829801 Orig															
829801 Dup															
829811 Orig															
829811 Split PREP DUP															
829814 Orig															
829814 Dup															
829823 Orig															
829823 Dup															
829835 Orig															
829835 Dup															
829849 Orig															
829849 Dup															
829858 Orig															
829858 Dup															
829861 Orig															
829861 Split PREP DUP															
829869 Orig															
829869 Dup															
829883 Orig															
829883 Dup															
829885 Orig															
829885 Split PREP DUP															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Method Blank															
Method Blank															
Method Blank										< 1			< 0.0005	< 0.001	< 0.01
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.003	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.002	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01



Harte Gold Corp.
 161 Bay Street
 Suite 2400
 Toronto Ontario M5J 2S1
 Canada

Report No.: A21-19062
 Report Date: 08-Nov-21
 Date Submitted: 08-Oct-21
 Your Reference: Exploration/Prospecting

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

114 Rock samples were submitted for analysis.

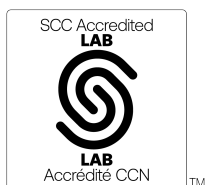
The following analytical package(s) were requested:		Testing Date:
1A2-Tbay-Harte Gold	QOP AA-Au (Au - Fire Assay AA)	2021-10-12 16:53:13

REPORT **A21-19062**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
 Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 673

ACTIVATION LABORATORIES LTD.
 1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
 TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
 E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Emmanuel Eseme, Ph.D.
 Quality Control Coordinator

Report No.: A21-19062
Report Date: 08-Nov-21
Date Submitted: 08-Oct-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

114 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
UT-6	QOP Total/QOP Ultratrace- 4acid Digest (Total Digestion ICPOES/ICPMS)	2021-11-02 11:04:57

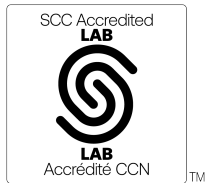
REPORT A21-19062

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 266

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

Results

Activation Laboratories Ltd.

Report: A21-19062

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829548	5																						
829549	< 5																						
829550	< 5																						
829551	< 5																						
829552	< 5																						
829553	< 5																						
829554	< 5																						
829555	< 5																						
829556	< 5																						
829557	< 5																						
829558	< 5																						
829559	< 5																						
829560	3580																						
829561	< 5																						
829562	< 5																						
829563	< 5																						
829564	< 5																						
829565	< 5																						
829566	< 5																						
829567	< 5																						
829568	< 5	20.7	1.73	5.07	7.78	0.20	8.16	0.2	186	185	1430	9.41	0.6	87.8	3.0	0.4	1.0	0.07	2.67	50.7	1.01	0.04	0.5
829569	< 5	17.0	1.31	4.81	6.87	0.25	7.99	0.1	238	215	1280	8.52	0.5	84.7	2.6	0.3	0.9	< 0.05	3.06	45.5	0.89	0.04	< 0.1
829570	< 5	13.7	> 3.00	0.04	8.45	1.60	1.32	< 0.1	5	16	106	0.75	0.4	2.8	0.2	1.7	< 0.1	0.10	1.42	0.6	0.32	0.02	0.2
829571	< 5	28.0	1.59	4.90	7.77	0.20	7.93	0.1	282	148	1330	9.15	0.9	74.1	3.0	0.4	1.0	0.09	2.83	45.9	0.96	0.04	0.3
829572	< 5																						
829573	< 5																						
829574	< 5																						
829575	< 5																						
829576	6																						
829577	< 5																						
829578	< 5																						
829579	< 5																						
829580	6860																						
829581	< 5																						
829582	< 5																						
829583	< 5																						
829584	< 5																						
829585	< 5																						
829586	< 5																						
829587	< 5																						
829588	< 5																						
829589	< 5																						
829590	< 5																						
829591	< 5																						
829592	< 5																						
829593	< 5																						
829594	< 5																						
829595	< 5																						
829596	< 5																						
829597	< 5																						
829598	< 5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829599	< 5																						
829600	5580																						
829601	< 5																						
829602	< 5																						
829603	< 5																						
829604	< 5																						
829605	< 5																						
829606	< 5																						
829607	< 5																						
829608	5																						
829609	< 5																						
829610	< 5																						
829611	7																						
829612	< 5																						
829613	< 5																						
829614	< 5																						
829615	5																						
829616	< 5																						
829617	< 5																						
829618	< 5																						
829619	6																						
829620	3610																						
829621	< 5																						
829622	5																						
829623	< 5																						
829624	< 5																						
829625	< 5																						
829626	< 5																						
829627	< 5																						
829628	< 5																						
829629	< 5																						
829630	< 5																						
829631	< 5																						
829632	< 5																						
829633	< 5																						
829634	< 5																						
829635	5																						
829636	9																						
829637	9																						
829638	< 5																						
829639	6																						
829640	6910																						
829641	< 5																						
829642	8																						
829643	6																						
829644	< 5																						
829645	6																						
829646	< 5																						
829647	< 5																						
829648	< 5																						
829649	< 5																						

Results

Activation Laboratories Ltd.

Report: A21-19062

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829650	< 5																						
829651	< 5																						
829652	< 5																						
829653	< 5																						
829654	13																						
829655	45																						
829656	< 5																						
829657	< 5																						
829658	79																						
829659	6																						
829660	5450																						
829661	< 5																						

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829548																							
829549																							
829550																							
829551																							
829552																							
829553																							
829554																							
829555																							
829556																							
829557																							
829558																							
829559																							
829560																							
829561																							
829562																							
829563																							
829564																							
829565																							
829566																							
829567																							
829568	115	16.6	< 0.1	7.1	26.9	133	17	0.2	0.32	< 0.1	< 1	< 0.1	< 0.1	53	4.7	12.2	1.9	9.0	2.9	3.6	0.7	4.9	105
829569	88.8	14.7	< 0.1	11.5	22.6	137	12	1.5	0.34	< 0.1	< 1	< 0.1	< 0.1	54	3.9	10.3	1.5	7.8	2.8	3.3	0.6	4.1	69.9
829570	19.6	21.5	1.8	81.4	1.4	108	12	2.7	1.93	< 0.1	< 1	< 0.1	< 0.1	97	2.2	4.4	0.4	1.4	0.3	0.3	< 0.1	0.4	1.4
829571	93.0	16.7	1.1	8.1	25.9	134	25	3.0	0.59	< 0.1	< 1	< 0.1	< 0.1	36	4.5	11.9	1.8	9.1	2.9	3.5	0.7	4.6	84.7
829572																							
829573																							
829574																							
829575																							
829576																							
829577																							
829578																							
829579																							
829580																							
829581																							
829582																							
829583																							
829584																							
829585																							
829586																							
829587																							
829588																							
829589																							
829590																							
829591																							
829592																							
829593																							
829594																							
829595																							
829596																							
829597																							
829598																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829599																							
829600																							
829601																							
829602																							
829603																							
829604																							
829605																							
829606																							
829607																							
829608																							
829609																							
829610																							
829611																							
829612																							
829613																							
829614																							
829615																							
829616																							
829617																							
829618																							
829619																							
829620																							
829621																							
829622																							
829623																							
829624																							
829625																							
829626																							
829627																							
829628																							
829629																							
829630																							
829631																							
829632																							
829633																							
829634																							
829635																							
829636																							
829637																							
829638																							
829639																							
829640																							
829641																							
829642																							
829643																							
829644																							
829645																							
829646																							
829647																							
829648																							
829649																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829650																							
829651																							
829652																							
829653																							
829654																							
829655																							
829656																							
829657																							
829658																							
829659																							
829660																							
829661																							

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
829548															
829549															
829550															
829551															
829552															
829553															
829554															
829555															
829556															
829557															
829558															
829559															
829560															
829561															
829562															
829563															
829564															
829565															
829566															
829567															
829568	0.6	0.4	2.7	0.4	< 0.1	< 0.1	0.003	< 0.05	1.1	38	0.4	< 0.1	0.347	0.040	0.12
829569	0.4	0.3	2.4	0.4	< 0.1	< 0.1	0.003	0.06	0.9	38	0.3	< 0.1	0.421	0.032	0.05
829570	0.2	< 0.1	0.2	< 0.1	0.2	0.1	0.002	0.42	33.3	< 1	7.9	3.0	0.0360	0.002	< 0.01
829571	0.9	0.4	2.8	0.4	0.2	0.1	0.003	< 0.05	0.8	38	0.4	< 0.1	0.592	0.046	0.05
829572															
829573															
829574															
829575															
829576															
829577															
829578															
829579															
829580															
829581															
829582															
829583															
829584															
829585															
829586															
829587															
829588															
829589															
829590															
829591															
829592															
829593															
829594															
829595															
829596															
829597															
829598															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
829599															
829600															
829601															
829602															
829603															
829604															
829605															
829606															
829607															
829608															
829609															
829610															
829611															
829612															
829613															
829614															
829615															
829616															
829617															
829618															
829619															
829620															
829621															
829622															
829623															
829624															
829625															
829626															
829627															
829628															
829629															
829630															
829631															
829632															
829633															
829634															
829635															
829636															
829637															
829638															
829639															
829640															
829641															
829642															
829643															
829644															
829645															
829646															
829647															
829648															
829649															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
829650															
829651															
829652															
829653															
829654															
829655															
829656															
829657															
829658															
829659															
829660															
829661															

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Oreas 72a (4 Acid) Meas										173		9.58		> 5000						158			
Oreas 72a (4 Acid) Cert										228		9.63		6930.000						157			
OREAS 101b (4 Acid) Meas				1.26		2.56			80		929	10.5		7.4	14.8		5.0			45.8	7.79		
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7		8.2	15		5.2			45	8.1		
OREAS 98 (4 Acid) Meas																		44.0		116		99.1	175
OREAS 98 (4 Acid) Cert																		45.1		121		97.2	158
OREAS 13b (4-Acid) Meas										> 5000				2130				0.90		74.3			
OREAS 13b (4-Acid) Cert										8650.000				2247.000				0.86		75			
OREAS 96 (4 Acid) Meas																		11.1		49.3		28.2	42.6
OREAS 96 (4 Acid) Cert																		11.5		49.9		26.3	40.7
OREAS 923 (4 Acid) Meas		32.4	0.34	1.82	8.07	1.90	0.47	0.4	90	79	928	6.54	3.6	37.2	2.7	2.5	0.9	1.69	6.33	22.6	1.23	18.6	6.0
OREAS 923 (4 Acid) Cert		31.4	0.324	1.69	7.29	2.51	0.473	0.420	91.0	71.0	950	6.43	3.42	35.8	2.86	2.42	0.960	1.60	6.70	23.1	1.37	21.4	6.54
OREAS 621 (4 Acid) Meas		13.8	1.33	0.51	6.35	2.01	1.96	280	35	31	483	3.83	4.0	25.7		1.7		65.2	3.18	29.8		4.08	5.2
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41	26.2		1.69		69.0	3.28	29.3		3.93	5.64
Oreas 77b (4 Acid) Meas		16.0	0.37	2.26	1.63	0.32	2.75	1.1	30	224	619	27.4	1.1	> 5000		0.4		1.51	2.10	> 500		3.35	
Oreas 77b (4 Acid) Cert		18.8	0.434	2.59	1.94	0.361	3.06	1.20	33.6	280	640	29.9	1.15	113000		0.470		1.62	2.32	1550		3.44	
OREAS 228b (Fire Assay) Meas	8330																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8910																						
OREAS 228b (Fire Assay) Cert	8570																						
Oreas E1336 (Fire Assay) Meas	500																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	516																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	511																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	501																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	509																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Oreas E1336 (Fire Assay) Cert	510																						
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
OREAS 70b (4 Acid) Meas		33.0	0.79	13.7	3.97	0.57	3.32	0.3	62		1130	5.64	1.8	2100		1.0	0.18	3.27	82.0		0.87		
OREAS 70b (4 Acid) Cert		34.4	0.77	13.4	3.87	0.62	3.05	0.4	67		1150	5.52	1.9	2180		1	0.17	3.44	78.0		0.84		
829549 Orig	< 5																						
829549 Dup	< 5																						
829563 Orig	< 5																						
829563 Dup	< 5																						
829569 Orig		17.1	1.29	4.73	6.92	0.25	7.94	0.1	206	217	1270	8.60	0.5	82.3	2.6	0.3	0.9	< 0.05	3.17	45.3	0.89	0.04	< 0.1
829569 Dup		16.9	1.33	4.90	6.83	0.25	8.03	0.1	269	214	1280	8.45	0.5	87.1	2.7	0.3	0.9	0.08	2.96	45.7	0.89	0.04	0.2
829572 Orig	< 5																						
829572 Dup	< 5																						
829584 Orig	< 5																						
829584 Dup	< 5																						
829597 Orig	< 5																						
829597 Split PREP DUP	< 5																						
829597 Split PREP DUP	< 5																						
829606 Orig	< 5																						
829606 Dup	< 5																						
829618 Orig	< 5																						
829618 Dup	< 5																						
829632 Orig	< 5																						
829632 Dup	< 5																						
829641 Orig	< 5																						
829641 Dup	< 5																						
829647 Orig	< 5																						
829647 Split PREP DUP	5																						
829652 Orig	< 5																						
829652 Dup	< 5																						
829661 Orig	< 5																						
829661 Split PREP DUP	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank																							
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	2	6	5	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.3
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	3	1	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.3
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	3	< 1	< 0.01	< 0.1	2.0	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.6

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Oreas 72a (4 Acid) Meas			6.0																				318
Oreas 72a (4 Acid) Cert			14.7																				316
OREAS 101b (4 Acid) Meas					133				20.9						775	1350	127	382	49.3	37.4	4.8	26.0	420
OREAS 101b (4 Acid) Cert					133				20.1						754	1325	127	388	48	40	5.4	27	412
OREAS 98 (4 Acid) Meas	1320										> 200	9.5											> 10000
OREAS 98 (4 Acid) Cert	1360										206	20.1											14800 0.0
OREAS 13b (4-Acid) Meas	141		54.4						9.00														2280
OREAS 13b (4-Acid) Cert	133		57						9.0														2327.0 000
OREAS 96 (4 Acid) Meas	440										66	5.5											> 10000
OREAS 96 (4 Acid) Cert	457										65.6	5.09											39300
OREAS 923 (4 Acid) Meas	338	16.3	8.7	144	25.3	43.6	120	13.4	1.06	0.5	14	1.4		363	40.7	81.0	9.5	33.4	6.1	5.5	0.8	4.8	4490
OREAS 923 (4 Acid) Cert	345	20.3	7.61	166	26.4	43.0	116	14.1	0.930	0.520	13.3	1.29		434	42.2	83.0	9.58	35.4	6.64	5.73	0.850	5.05	4230
OREAS 621 (4 Acid) Meas	> 10000	25.0	76.0	83.9	11.0	65.6	148	9.0	13.7	1.7	5	28.1			17.3	44.7					0.5		3630
OREAS 621 (4 Acid) Cert	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6					0.460		3630
Oreas 77b (4 Acid) Meas	199	4.2	1510	18.5	6.2	35.4	34	2.8		0.1	1	5.2	1.1	22	14.7	25.4							3110
Oreas 77b (4 Acid) Cert	205	4.61	2050	19.1	6.55	34.4	37.9	3.26		0.112	1.59	9.100	1.35	118	15.8	27.7							3430
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Oreas E1336 (Fire Assay) Cert																							
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
OREAS 70b (4 Acid) Meas	109	7.0	144		9.4	77.9	69	3.4	3.10	< 0.1	1	0.6		211	15.0	27.8							49.6
OREAS 70b (4 Acid) Cert	112	10	148		9.8	74.0	66	3.7	3.30	0.05	1	0.6		202	15.3	28.2							52.0
829549 Orig																							
829549 Dup																							
829563 Orig																							
829563 Dup																							
829569 Orig	88.8	14.7	< 0.1	12.0	23.2	138	10	0.2	0.14	< 0.1	< 1	< 0.1	< 0.1	56	4.0	10.4	1.5	7.9	2.6	3.3	0.6	4.1	72.7
829569 Dup	88.9	14.7	0.4	10.9	22.0	135	13	2.7	0.53	< 0.1	< 1	< 0.1	< 0.1	53	3.8	10.2	1.5	7.6	3.1	3.3	0.6	4.1	67.1
829572 Orig																							
829572 Dup																							
829584 Orig																							
829584 Dup																							
829597 Orig																							
829597 Split PREP DUP																							
829597 Split PREP DUP																							
829606 Orig																							
829606 Dup																							
829618 Orig																							
829618 Dup																							
829632 Orig																							
829632 Dup																							
829641 Orig																							
829641 Dup																							
829647 Orig																							
829647 Split PREP DUP																							
829652 Orig																							
829652 Dup																							
829661 Orig																							
829661 Split PREP DUP																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank																							
Method Blank	0.4	0.2	0.7	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.3
Method Blank	< 0.2	0.3	0.8	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.11	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	1.2
Method Blank	< 0.2	0.2	1.0	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.07	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Oreas 72a (4 Acid) Meas															1.67
Oreas 72a (4 Acid) Cert															1.74
OREAS 101b (4 Acid) Meas		2.0	13.1	1.8					22.5		38.5	374	0.368	0.116	
OREAS 101b (4 Acid) Cert		2.08	13.9	1.96					23		36.4	387	0.35		
OREAS 98 (4 Acid) Meas									335						16.6
OREAS 98 (4 Acid) Cert									345						15.5
OREAS 13b (4-Acid) Meas															1.18
OREAS 13b (4-Acid) Cert															1.2
OREAS 96 (4 Acid) Meas									97.1						4.35
OREAS 96 (4 Acid) Cert									101						4.19
OREAS 923 (4 Acid) Meas		0.4	2.5	0.4	1.0	5.2		0.84	84.9	13	16.9	2.9	0.421	0.064	0.73
OREAS 923 (4 Acid) Cert		0.410	2.57	0.390	1.11	4.85		0.860	83.0	13.1	16.5	3.06	0.405	0.0630	0.691
OREAS 621 (4 Acid) Meas			0.9	0.1		1.9		2.02	> 5000	6	5.3	2.6	0.188	0.036	4.70
OREAS 621 (4 Acid) Cert			0.990	0.140		2.35		1.96	13600	6.24	7.48	2.83	0.149	0.0359	4.48
Oreas 77b (4 Acid) Meas					0.2	2.7	0.020	1.35	55.6		6.2	1.6			
Oreas 77b (4 Acid) Cert					0.280	3.07	0.0220	1.37	61.0		6.61	1.71			
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Oreas E1336 (Fire Assay) Cert															
OREAS 681 (4 Acid) Meas										26			0.573	0.137	0.10
OREAS 681 (4 Acid) Cert										27.7			0.588	0.141	0.109
OREAS 147 (4 Acid) Meas										11			0.248	0.104	0.02
OREAS 147 (4 Acid) Cert										10.7			0.470	0.155	0.0300
OREAS 70b (4 Acid) Meas					0.3	4.5		0.33	12.9	12	6.5	1.6	0.174	0.022	0.30
OREAS 70b (4 Acid) Cert					0.3	4.9		0.33	13.7	12	6.9	1.7	0.181	0.022	0.31
829549 Orig															
829549 Dup															
829563 Orig															
829563 Dup															
829569 Orig	0.3	0.4	2.4	0.4	< 0.1	< 0.1	0.002	0.05	0.9	39	0.3	< 0.1	0.295	0.029	0.05
829569 Dup	0.5	0.3	2.4	0.4	0.2	0.2	0.003	0.06	0.9	37	0.3	< 0.1	0.547	0.036	0.05
829572 Orig															
829572 Dup															
829584 Orig															
829584 Dup															
829597 Orig															
829597 Split PREP DUP															
829597 Split PREP DUP															
829606 Orig															
829606 Dup															
829618 Orig															
829618 Dup															
829632 Orig															
829632 Dup															
829641 Orig															
829641 Dup															
829647 Orig															
829647 Split PREP DUP															
829652 Orig															
829652 Dup															
829661 Orig															
829661 Split PREP DUP															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Method Blank										< 1			< 0.0005	< 0.001	< 0.01
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.003	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.002	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01



Report No.: A21-19177
Report Date: 08-Nov-21
Date Submitted: 12-Oct-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

220 Rock samples were submitted for analysis.

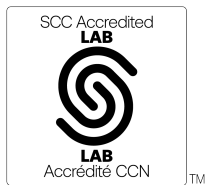
Table with 2 columns: Analytical package(s) requested and Testing Date. Row 1: UT-6, QOP Total/QOP Ultratrace- 4acid Digest (Total Digestion ICPOES/ICPMS), 2021-11-02 11:04:57

REPORT A21-19177

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 266

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Handwritten signature of Emmanuel Esemé

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

Report No.: A21-19177
Report Date: 08-Nov-21
Date Submitted: 12-Oct-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

220 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-Tbay-Harte Gold	QOP AA-Au (Au - Fire Assay AA)	2021-10-14 13:04:44

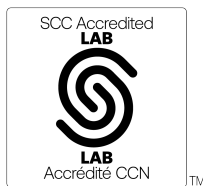
REPORT A21-19177

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 673

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Emmanuel Eseme, Ph.D.
Quality Control Coordinator

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829886	< 5																						
829887	< 5																						
829888	< 5																						
829889	< 5																						
829890	< 5																						
829891	< 5																						
829892	< 5																						
829893	< 5																						
829894	< 5																						
829895	< 5																						
829896	< 5																						
829897	< 5																						
829898	< 5																						
829899	< 5																						
829900	6800																						
829901	< 5																						
829902	< 5																						
829903	< 5																						
829904	< 5																						
829905	< 5																						
829906	< 5																						
829907	< 5																						
829908	< 5																						
829909	< 5																						
829910	< 5																						
829911	< 5																						
829912	< 5																						
829913	< 5																						
829914	< 5																						
829915	< 5																						
829916	< 5																						
829917	< 5																						
829918	< 5																						
829919	< 5																						
829920	3580																						
829921	< 5																						
829922	11																						
829923	13																						
829924	< 5																						
829925	< 5																						
829926	< 5																						
829927	< 5																						
829928	< 5																						
829929	< 5																						
829930	< 5																						
829931	< 5																						
829932	< 5																						
829933	< 5																						
829934	< 5																						
829935	< 5																						
829936	< 5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829937	< 5																						
829938	< 5																						
829939	< 5																						
829940	5410																						
829941	< 5																						
829942	< 5																						
829943	< 5																						
829944	< 5																						
829945	< 5																						
829946	< 5																						
829947	< 5																						
829948	< 5																						
829949	< 5																						
829950	< 5																						
829951	< 5																						
829952	< 5																						
829953	< 5																						
829954	< 5																						
829955	< 5																						
829956	< 5																						
829957	< 5																						
829958	< 5																						
829959	< 5																						
829960	6730																						
829961	< 5																						
829962	< 5																						
829963	< 5																						
829964	< 5																						
829965	< 5																						
829966	< 5																						
829967	< 5																						
829968	< 5																						
829969	< 5																						
829970	< 5																						
829971	< 5																						
829972	< 5																						
829973	< 5																						
829974	< 5																						
829975	< 5																						
829976	< 5																						
829977	< 5																						
829978	< 5																						
829979	< 5																						
829980	3620																						
829981	< 5																						
829982	< 5																						
829983	< 5																						
829984	< 5																						
829985	< 5																						
829986	< 5																						
829987	< 5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829988	< 5																						
829989	< 5																						
829990	< 5																						
829991	< 5																						
829992	< 5																						
829993	< 5																						
829994	< 5																						
829995	< 5																						
829996	< 5																						
829997	< 5																						
829998	< 5																						
829999	15																						
830000	5500																						
830501	5																						
830502	< 5																						
830503	< 5																						
830504	< 5																						
830505	< 5																						
830506	< 5																						
830507	13																						
830508	< 5																						
830509	< 5																						
830510	< 5																						
830511	< 5																						
830512	13																						
830513	6																						
830514	< 5																						
830515	6																						
830516	< 5																						
830517	< 5																						
830518	< 5																						
830519	< 5																						
830520	6670																						
830521	< 5																						
830522	< 5																						
830523	< 5																						
830524	5	31.8	1.75	2.53	6.57	0.55	6.17	2.2	106	142	1020	5.94	1.5	78.6	1.4	0.7	0.4	0.30	7.68	31.8	0.80	1.24	1.7
830525	< 5																						
830526	10	20.3	1.73	1.87	6.53	0.42	5.55	3.1	128	79	983	6.36	1.6	45.3	1.7	0.9	0.5	0.33	5.88	34.3	0.89	1.28	2.0
830527	6																						
830528	< 5																						
830529	< 5																						
830530	7																						
830531	< 5																						
830532	5																						
830533	< 5																						
830534	< 5																						
830535	5																						
830536	< 5																						
830537	5																						
830538	19																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
830539	14																						
830540	3650																						
830541	11																						
830542	5	16.2	> 3.00	0.12	7.68	2.01	0.98	< 0.1	4	12	410	0.89	2.8	1.9	0.9	1.2	0.3	0.10	8.39	0.5	0.72	0.04	< 0.1
830543	5																						
830544	< 5																						
830545	5																						
830546	6																						
830547	6																						
830548	7																						
830549	6																						
830550	< 5																						
830551	14																						
830552	5																						
830553	7																						
830554	< 5																						
830555	5																						
830556	5																						
830557	6																						
830558	< 5																						
830559	< 5																						
830560	5530																						
830561	5																						
830562	6																						
830563	< 5																						
830564	5																						
830565	6																						
830566	< 5																						
830567	< 5																						
830568	< 5																						
830569	< 5																						
830570	< 5																						
830571	< 5																						
830572	< 5																						
830573	19																						
830574	9																						
830575	< 5																						
830576	7																						
830577	6																						
830578	< 5																						
830579	< 5																						
830580	6830																						
830581	< 5																						
830582	< 5																						
830583	6																						
830584	7																						
830585	10																						
830586	< 5																						
830587	< 5																						
830588	5																						
830589	7																						

Results

Activation Laboratories Ltd.

Report: A21-19177

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
830590	< 5																						
830591	5																						
830592	< 5																						
830593	< 5																						
830594	< 5	62.8	> 3.00	1.35	8.13	1.08	2.96	< 0.1	85	45	523	3.37	2.8	31.4	0.9	0.9	0.3	0.08	5.84	13.0	1.14	0.07	0.2
830595	5																						
830596	< 5																						
830597	< 5																						
830598	7																						
830599	< 5																						
830600	3620																						
830601	6																						
830602	7																						
830603	< 5																						
830604	< 5																						
830605	14																						

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829886																							
829887																							
829888																							
829889																							
829890																							
829891																							
829892																							
829893																							
829894																							
829895																							
829896																							
829897																							
829898																							
829899																							
829900																							
829901																							
829902																							
829903																							
829904																							
829905																							
829906																							
829907																							
829908																							
829909																							
829910																							
829911																							
829912																							
829913																							
829914																							
829915																							
829916																							
829917																							
829918																							
829919																							
829920																							
829921																							
829922																							
829923																							
829924																							
829925																							
829926																							
829927																							
829928																							
829929																							
829930																							
829931																							
829932																							
829933																							
829934																							
829935																							
829936																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829937																							
829938																							
829939																							
829940																							
829941																							
829942																							
829943																							
829944																							
829945																							
829946																							
829947																							
829948																							
829949																							
829950																							
829951																							
829952																							
829953																							
829954																							
829955																							
829956																							
829957																							
829958																							
829959																							
829960																							
829961																							
829962																							
829963																							
829964																							
829965																							
829966																							
829967																							
829968																							
829969																							
829970																							
829971																							
829972																							
829973																							
829974																							
829975																							
829976																							
829977																							
829978																							
829979																							
829980																							
829981																							
829982																							
829983																							
829984																							
829985																							
829986																							
829987																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829988																							
829989																							
829990																							
829991																							
829992																							
829993																							
829994																							
829995																							
829996																							
829997																							
829998																							
829999																							
830000																							
830501																							
830502																							
830503																							
830504																							
830505																							
830506																							
830507																							
830508																							
830509																							
830510																							
830511																							
830512																							
830513																							
830514																							
830515																							
830516																							
830517																							
830518																							
830519																							
830520																							
830521																							
830522																							
830523																							
830524	989	14.3	0.6	23.2	11.5	215	45	2.6	2.11	0.4	3	< 0.1	0.5	333	9.6	21.8	2.6	10.8	2.5	2.4	0.4	2.4	186
830525																							
830526	1370	16.1	0.6	17.1	13.1	224	47	2.5	2.15	0.5	4	< 0.1	< 0.1	163	9.0	20.5	2.5	10.6	2.2	2.4	0.4	2.6	241
830527																							
830528																							
830529																							
830530																							
830531																							
830532																							
830533																							
830534																							
830535																							
830536																							
830537																							
830538																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
830539																							
830540																							
830541																							
830542	25.1	3.8	1.5	79.6	8.2	373	80	5.1	0.43	< 0.1	< 1	< 0.1	< 0.1	1130	23.7	49.0	5.3	18.6	3.0	2.0	0.3	1.5	17.2
830543																							
830544																							
830545																							
830546																							
830547																							
830548																							
830549																							
830550																							
830551																							
830552																							
830553																							
830554																							
830555																							
830556																							
830557																							
830558																							
830559																							
830560																							
830561																							
830562																							
830563																							
830564																							
830565																							
830566																							
830567																							
830568																							
830569																							
830570																							
830571																							
830572																							
830573																							
830574																							
830575																							
830576																							
830577																							
830578																							
830579																							
830580																							
830581																							
830582																							
830583																							
830584																							
830585																							
830586																							
830587																							
830588																							
830589																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
830590																							
830591																							
830592																							
830593																							
830594	56.9	14.4	0.9	45.3	9.0	565	95	2.9	0.79	< 0.1	< 1	< 0.1	< 0.1	574	32.3	69.8	8.1	28.6	6.0	2.9	0.4	1.9	25.2
830595																							
830596																							
830597																							
830598																							
830599																							
830600																							
830601																							
830602																							
830603																							
830604																							
830605																							

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
829886															
829887															
829888															
829889															
829890															
829891															
829892															
829893															
829894															
829895															
829896															
829897															
829898															
829899															
829900															
829901															
829902															
829903															
829904															
829905															
829906															
829907															
829908															
829909															
829910															
829911															
829912															
829913															
829914															
829915															
829916															
829917															
829918															
829919															
829920															
829921															
829922															
829923															
829924															
829925															
829926															
829927															
829928															
829929															
829930															
829931															
829932															
829933															
829934															
829935															
829936															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
829937															
829938															
829939															
829940															
829941															
829942															
829943															
829944															
829945															
829946															
829947															
829948															
829949															
829950															
829951															
829952															
829953															
829954															
829955															
829956															
829957															
829958															
829959															
829960															
829961															
829962															
829963															
829964															
829965															
829966															
829967															
829968															
829969															
829970															
829971															
829972															
829973															
829974															
829975															
829976															
829977															
829978															
829979															
829980															
829981															
829982															
829983															
829984															
829985															
829986															
829987															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
829988															
829989															
829990															
829991															
829992															
829993															
829994															
829995															
829996															
829997															
829998															
829999															
830000															
830501															
830502															
830503															
830504															
830505															
830506															
830507															
830508															
830509															
830510															
830511															
830512															
830513															
830514															
830515															
830516															
830517															
830518															
830519															
830520															
830521															
830522															
830523															
830524	0.3	0.2	1.3	0.2	0.1	0.7	0.002	0.20	9.4	14	1.3	0.4	0.342	0.052	0.99
830525															
830526	0.3	0.2	1.5	0.2	0.1	0.9	0.002	0.12	7.3	15	1.1	0.3	0.400	0.056	0.96
830527															
830528															
830529															
830530															
830531															
830532															
830533															
830534															
830535															
830536															
830537															
830538															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
830539															
830540															
830541															
830542	< 0.1	0.1	0.9	0.1	0.4	0.5	< 0.001	0.54	17.1	2	6.8	2.5	0.0615	0.013	0.05
830543															
830544															
830545															
830546															
830547															
830548															
830549															
830550															
830551															
830552															
830553															
830554															
830555															
830556															
830557															
830558															
830559															
830560															
830561															
830562															
830563															
830564															
830565															
830566															
830567															
830568															
830569															
830570															
830571															
830572															
830573															
830574															
830575															
830576															
830577															
830578															
830579															
830580															
830581															
830582															
830583															
830584															
830585															
830586															
830587															
830588															
830589															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
830590															
830591															
830592															
830593															
830594	< 0.1	0.1	0.9	0.1	0.2	0.5	< 0.001	0.29	7.5	9	4.8	1.2	0.276	0.069	0.06
830595															
830596															
830597															
830598															
830599															
830600															
830601															
830602															
830603															
830604															
830605															

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Oreas 72a (4 Acid) Meas										173		9.58		> 5000						158			
Oreas 72a (4 Acid) Cert										228		9.63		6930.000						157			
OREAS 101b (4 Acid) Meas				1.26		2.56			80		929	10.5		7.4	14.8		5.0			45.8	7.79		
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7		8.2	15		5.2			45	8.1		
OREAS 98 (4 Acid) Meas																		44.0		116		99.1	175
OREAS 98 (4 Acid) Cert																		45.1		121		97.2	158
OREAS 13b (4-Acid) Meas										> 5000				2130				0.90		74.3			
OREAS 13b (4-Acid) Cert										8650.000				2247.000				0.86		75			
OREAS 96 (4 Acid) Meas																		11.1		49.3		28.2	42.6
OREAS 96 (4 Acid) Cert																		11.5		49.9		26.3	40.7
OREAS 923 (4 Acid) Meas		32.4	0.34	1.82	8.07	1.90	0.47	0.4	90	79	928	6.54	3.6	37.2	2.7	2.5	0.9	1.69	6.33	22.6	1.23	18.6	6.0
OREAS 923 (4 Acid) Cert		31.4	0.324	1.69	7.29	2.51	0.473	0.420	91.0	71.0	950	6.43	3.42	35.8	2.86	2.42	0.960	1.60	6.70	23.1	1.37	21.4	6.54
OREAS 621 (4 Acid) Meas		13.8	1.33	0.51	6.35	2.01	1.96	280	35	31	483	3.83	4.0	25.7		1.7		65.2	3.18	29.8		4.08	5.2
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41	26.2		1.69		69.0	3.28	29.3		3.93	5.64
Oreas 77b (4 Acid) Meas		16.0	0.37	2.26	1.63	0.32	2.75	1.1	30	224	619	27.4	1.1	> 5000		0.4		1.51	2.10	> 500		3.35	
Oreas 77b (4 Acid) Cert		18.8	0.434	2.59	1.94	0.361	3.06	1.20	33.6	280	640	29.9	1.15	113000		0.470		1.62	2.32	1550		3.44	
OREAS 228b (Fire Assay) Meas	8560																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8730																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8750																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8680																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8740																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8840																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8490																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 228b (Fire Assay) Cert	8570																						
Oreas E1336 (Fire Assay) Meas	501																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	505																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	511																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	510																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	509																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	508																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	507																						
Oreas E1336 (Fire Assay) Cert	510																						
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
OREAS 70b (4 Acid) Meas		33.0	0.79	13.7	3.97	0.57	3.32	0.3	62		1130	5.64	1.8	2100		1.0		0.18	3.27	82.0		0.87	
OREAS 70b (4 Acid) Cert		34.4	0.77	13.4	3.87	0.62	3.05	0.4	67		1150	5.52	1.9	2180		1		0.17	3.44	78.0		0.84	
829895 Orig	5																						
829895 Dup	< 5																						
829905 Orig	< 5																						
829905 Dup	< 5																						
829916 Orig	< 5																						
829916 Dup	< 5																						
829921 Orig	< 5																						
829921 Dup	< 5																						
829931 Orig	< 5																						
829931 Dup	< 5																						
829935 Orig	< 5																						
829935 Split PREP DUP	< 5																						
829939 Orig	< 5																						
829939 Dup	< 5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829959 Orig	< 5																						
829959 Dup	< 5																						
829972 Orig	< 5																						
829972 Dup	< 5																						
829981 Orig	< 5																						
829981 Dup	< 5																						
829985 Orig	< 5																						
829985 Split PREP DUP	< 5																						
829999 Orig	16																						
829999 Dup	14																						
830509 Orig	< 5																						
830509 Dup	< 5																						
830519 Orig	< 5																						
830519 Dup	< 5																						
830529 Orig	< 5																						
830529 Dup	< 5																						
830535 Orig	5																						
830535 Split PREP DUP	5																						
830538 Orig	19																						
830538 Dup	19																						
830548 Orig	8																						
830548 Dup	6																						
830568 Orig	6																						
830568 Dup	< 5																						
830578 Orig	5																						
830578 Dup	< 5																						
830585 Orig	10																						
830585 Split PREP DUP	10																						
830587 Orig	< 5																						
830587 Dup	6																						
830597 Orig	< 5																						
830597 Dup	< 5																						
830602 Orig	7																						
830602 Dup	6																						
830605 Orig	14																						
830605 Split PREP DUP	18																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank																							
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	2	6	5	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.3
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	3	1	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.3
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	3	< 1	< 0.01	< 0.1	2.0	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.6

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	
Oreas 72a (4 Acid) Meas			6.0																				318	
Oreas 72a (4 Acid) Cert			14.7																				316	
OREAS 101b (4 Acid) Meas					133				20.9						775	1350	127	382	49.3	37.4	4.8	26.0	420	
OREAS 101b (4 Acid) Cert					133				20.1						754	1325	127	388	48	40	5.4	27	412	
OREAS 98 (4 Acid) Meas	1320										> 200	9.5											> 10000	
OREAS 98 (4 Acid) Cert	1360										206	20.1												14800 0.0
OREAS 13b (4-Acid) Meas	141		54.4						9.00															2280
OREAS 13b (4-Acid) Cert	133		57						9.0															2327.0 000
OREAS 96 (4 Acid) Meas	440										66	5.5												> 10000
OREAS 96 (4 Acid) Cert	457										65.6	5.09												39300
OREAS 923 (4 Acid) Meas	338	16.3	8.7	144	25.3	43.6	120	13.4	1.06	0.5	14	1.4		363	40.7	81.0	9.5	33.4	6.1	5.5	0.8	4.8	4490	
OREAS 923 (4 Acid) Cert	345	20.3	7.61	166	26.4	43.0	116	14.1	0.930	0.520	13.3	1.29		434	42.2	83.0	9.58	35.4	6.64	5.73	0.850	5.05	4230	
OREAS 621 (4 Acid) Meas	> 10000	25.0	76.0	83.9	11.0	65.6	148	9.0	13.7	1.7	5	28.1			17.3	44.7					0.5		3630	
OREAS 621 (4 Acid) Cert	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6					0.460		3630	
Oreas 77b (4 Acid) Meas	199	4.2	1510	18.5	6.2	35.4	34	2.8		0.1	1	5.2	1.1	22	14.7	25.4							3110	
Oreas 77b (4 Acid) Cert	205	4.61	2050	19.1	6.55	34.4	37.9	3.26		0.112	1.59	9.100	1.35	118	15.8	27.7							3430	
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 228b (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
OREAS 70b (4 Acid) Meas	109	7.0	144		9.4	77.9	69	3.4	3.10	< 0.1	1	0.6		211	15.0	27.8						49.6	
OREAS 70b (4 Acid) Cert	112	10	148		9.8	74.0	66	3.7	3.30	0.05	1	0.6		202	15.3	28.2						52.0	
829895 Orig																							
829895 Dup																							
829905 Orig																							
829905 Dup																							
829916 Orig																							
829916 Dup																							
829921 Orig																							
829921 Dup																							
829931 Orig																							
829931 Dup																							
829935 Orig																							
829935 Split PREP DUP																							
829939 Orig																							
829939 Dup																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
829959 Orig																							
829959 Dup																							
829972 Orig																							
829972 Dup																							
829981 Orig																							
829981 Dup																							
829985 Orig																							
829985 Split																							
PREP DUP																							
829999 Orig																							
829999 Dup																							
830509 Orig																							
830509 Dup																							
830519 Orig																							
830519 Dup																							
830529 Orig																							
830529 Dup																							
830535 Orig																							
830535 Split																							
PREP DUP																							
830538 Orig																							
830538 Dup																							
830548 Orig																							
830548 Dup																							
830568 Orig																							
830568 Dup																							
830578 Orig																							
830578 Dup																							
830585 Orig																							
830585 Split																							
PREP DUP																							
830587 Orig																							
830587 Dup																							
830597 Orig																							
830597 Dup																							
830602 Orig																							
830602 Dup																							
830605 Orig																							
830605 Split																							
PREP DUP																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	0.4	0.2	0.7	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.3
Method Blank	< 0.2	0.3	0.8	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.11	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	1.2
Method Blank	< 0.2	0.2	1.0	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.07	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Oreas 72a (4 Acid) Meas															1.67
Oreas 72a (4 Acid) Cert															1.74
OREAS 101b (4 Acid) Meas		2.0	13.1	1.8					22.5		38.5	374	0.368	0.116	
OREAS 101b (4 Acid) Cert		2.08	13.9	1.96					23		36.4	387	0.35		
OREAS 98 (4 Acid) Meas									335						16.6
OREAS 98 (4 Acid) Cert									345						15.5
OREAS 13b (4-Acid) Meas															1.18
OREAS 13b (4-Acid) Cert															1.2
OREAS 96 (4 Acid) Meas									97.1						4.35
OREAS 96 (4 Acid) Cert									101						4.19
OREAS 923 (4 Acid) Meas		0.4	2.5	0.4	1.0	5.2		0.84	84.9	13	16.9	2.9	0.421	0.064	0.73
OREAS 923 (4 Acid) Cert		0.410	2.57	0.390	1.11	4.85		0.860	83.0	13.1	16.5	3.06	0.405	0.0630	0.691
OREAS 621 (4 Acid) Meas			0.9	0.1		1.9		2.02	> 5000	6	5.3	2.6	0.188	0.036	4.70
OREAS 621 (4 Acid) Cert			0.990	0.140		2.35		1.96	13600	6.24	7.48	2.83	0.149	0.0359	4.48
Oreas 77b (4 Acid) Meas					0.2	2.7	0.020	1.35	55.6		6.2	1.6			
Oreas 77b (4 Acid) Cert					0.280	3.07	0.0220	1.37	61.0		6.61	1.71			
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01	
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP	
OREAS 228b (Fire Assay) Cert																
Oreas E1336 (Fire Assay) Meas																
Oreas E1336 (Fire Assay) Cert																
Oreas E1336 (Fire Assay) Meas																
Oreas E1336 (Fire Assay) Cert																
Oreas E1336 (Fire Assay) Meas																
Oreas E1336 (Fire Assay) Cert																
Oreas E1336 (Fire Assay) Meas																
Oreas E1336 (Fire Assay) Cert																
Oreas E1336 (Fire Assay) Meas																
Oreas E1336 (Fire Assay) Cert																
Oreas E1336 (Fire Assay) Meas																
Oreas E1336 (Fire Assay) Cert																
Oreas E1336 (Fire Assay) Meas																
Oreas E1336 (Fire Assay) Cert																
Oreas E1336 (Fire Assay) Meas																
Oreas E1336 (Fire Assay) Cert																
Oreas E1336 (Fire Assay) Meas																
OREAS 681 (4 Acid) Meas										26			0.573	0.137	0.10	
OREAS 681 (4 Acid) Cert										27.7			0.588	0.141	0.109	
OREAS 147 (4 Acid) Meas										11			0.248	0.104	0.02	
OREAS 147 (4 Acid) Cert										10.7			0.470	0.155	0.0300	
OREAS 70b (4 Acid) Meas					0.3	4.5		0.33	12.9	12	6.5	1.6	0.174	0.022	0.30	
OREAS 70b (4 Acid) Cert					0.3	4.9		0.33	13.7	12	6.9	1.7	0.181	0.022	0.31	
829895 Orig																
829895 Dup																
829905 Orig																
829905 Dup																
829916 Orig																
829916 Dup																
829921 Orig																
829921 Dup																
829931 Orig																
829931 Dup																
829935 Orig																
829935 Split PREP DUP																
829939 Orig																
829939 Dup																

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
829959 Orig															
829959 Dup															
829972 Orig															
829972 Dup															
829981 Orig															
829981 Dup															
829985 Orig															
829985 Split PREP DUP															
829999 Orig															
829999 Dup															
830509 Orig															
830509 Dup															
830519 Orig															
830519 Dup															
830529 Orig															
830529 Dup															
830535 Orig															
830535 Split PREP DUP															
830538 Orig															
830538 Dup															
830548 Orig															
830548 Dup															
830568 Orig															
830568 Dup															
830578 Orig															
830578 Dup															
830585 Orig															
830585 Split PREP DUP															
830587 Orig															
830587 Dup															
830597 Orig															
830597 Dup															
830602 Orig															
830602 Dup															
830605 Orig															
830605 Split PREP DUP															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Method Blank															
Method Blank															
Method Blank										< 1			0.0005	< 0.001	< 0.01
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.003	< 0.05	< 0.5	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.002	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01



Report No.: A21-19380
Report Date: 08-Nov-21
Date Submitted: 15-Oct-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

192 Rock samples were submitted for analysis.

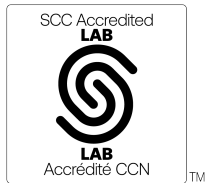
Table with 2 columns: Analytical package(s) requested and Testing Date. Row 1: UT-6, QOP Total/QOP Ultratrace- 4acid Digest (Total Digestion ICPOES/ICPMS), 2021-11-02 11:04:57

REPORT A21-19380

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 266

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

[Handwritten signature]

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

Report No.: A21-19380
Report Date: 08-Nov-21
Date Submitted: 15-Oct-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

192 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-Tbay-Harte Gold	QOP AA-Au (Au - Fire Assay AA)	2021-10-18 10:44:04

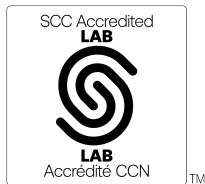
REPORT A21-19380

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 673

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
830606	6																						
830607	6																						
830608	< 5																						
830609	6																						
830610	< 5																						
830611	5																						
830612	5																						
830613	5																						
830614	5																						
830615	5																						
830616	5																						
830617	< 5																						
830618	5																						
830619	< 5																						
830620	5310																						
830621	6																						
830622	< 5																						
830623	< 5																						
830624	< 5																						
830625	5																						
830626	< 5																						
830627	< 5																						
830628	< 5																						
830629	< 5																						
830630	< 5																						
830631	< 5																						
830632	5																						
830633	< 5																						
830634	5																						
830635	5																						
830636	5																						
830637	5																						
830638	< 5																						
830639	< 5																						
830640	6520																						
830641	8																						
830642	7																						
830643	6																						
830644	5																						
830645	6																						
830646	5																						
830647	5																						
830648	6																						
830649	5																						
830650	5																						
830651	5																						
830652	5																						
830653	5																						
830654	< 5																						
830655	5																						
830656	5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
830657	5																						
830658	5																						
830659	5																						
830660	3400																						
830661	7																						
830662	6																						
830663	6																						
830664	6																						
830665	5																						
830666	6																						
830667	6																						
830668	5																						
830669	6																						
830670	5																						
830671	6																						
830672	6																						
830673	6																						
830674	5																						
830675	< 5																						
830676	< 5																						
830677	< 5																						
830678	< 5																						
830679	< 5																						
830680	5520																						
830681	< 5																						
830682	< 5																						
830683	11																						
830684	< 5																						
830685	< 5																						
830686	< 5																						
830687	< 5																						
830688	< 5																						
830689	< 5																						
830690	< 5																						
830691	< 5																						
830692	< 5																						
830693	< 5																						
830694	< 5																						
830695	< 5																						
830696	< 5																						
830697	< 5																						
830698	5																						
830699	< 5																						
830700	6610																						
830701	5																						
830702	< 5																						
830703	< 5																						
830704	< 5																						
830705	< 5																						
830706	5																						
830707	< 5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
830708	< 5																						
830709	< 5																						
830710	< 5																						
830711	< 5																						
830712	< 5																						
830713	< 5																						
830714	< 5																						
830715	< 5																						
830716	< 5																						
830717	< 5																						
830718	< 5																						
830719	< 5																						
830720	3480																						
830721	< 5																						
830722	< 5																						
830723	< 5																						
830724	< 5																						
830725	< 5																						
830726	< 5																						
830727	< 5																						
830728	< 5																						
830729	< 5																						
830730	< 5																						
830731	< 5																						
830732	< 5																						
830733	< 5																						
830734	< 5	15.4	> 3.00	0.65	8.75	0.11	2.34	< 0.1	35	31	274	1.88	2.7	16.0	0.5	0.8	0.2	0.06	0.95	7.6	0.61	0.11	0.1
830735	< 5																						
830736	< 5																						
830737	< 5																						
830738	< 5																						
830739	< 5																						
830740	5360																						
830741	5																						
830742	< 5																						
830743	< 5																						
830744	< 5																						
830745	< 5																						
830746	< 5																						
830747	< 5																						
830748	< 5																						
830749	< 5																						
830750	< 5																						
830751	< 5																						
830752	< 5																						
830753	< 5																						
830754	< 5																						
830755	< 5																						
830756	< 5																						
830757	< 5																						
830758	< 5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
830759	< 5																						
830760	6680																						
830761	20																						
830762	< 5																						
830763	< 5																						
830764	< 5																						
830765	< 5																						
830766	< 5																						
830767	< 5																						
830768	< 5																						
830769	< 5																						
830770	< 5																						
830771	< 5																						
830772	< 5																						
830773	< 5																						
830774	< 5																						
830775	< 5																						
830776	< 5																						
830777	< 5																						
830778	< 5																						
830779	< 5																						
830780	3520																						
830781	< 5																						
830782	< 5																						
830783	< 5																						
830784	5																						
830785	5																						
830786	5																						
830787	5																						
830788	5																						
830789	< 5																						
830790	< 5																						
830791	6																						
830792	5																						
830793	6																						
830794	5																						
830795	5																						
830796	6																						
830797	5																						

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
830606																							
830607																							
830608																							
830609																							
830610																							
830611																							
830612																							
830613																							
830614																							
830615																							
830616																							
830617																							
830618																							
830619																							
830620																							
830621																							
830622																							
830623																							
830624																							
830625																							
830626																							
830627																							
830628																							
830629																							
830630																							
830631																							
830632																							
830633																							
830634																							
830635																							
830636																							
830637																							
830638																							
830639																							
830640																							
830641																							
830642																							
830643																							
830644																							
830645																							
830646																							
830647																							
830648																							
830649																							
830650																							
830651																							
830652																							
830653																							
830654																							
830655																							
830656																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
830657																							
830658																							
830659																							
830660																							
830661																							
830662																							
830663																							
830664																							
830665																							
830666																							
830667																							
830668																							
830669																							
830670																							
830671																							
830672																							
830673																							
830674																							
830675																							
830676																							
830677																							
830678																							
830679																							
830680																							
830681																							
830682																							
830683																							
830684																							
830685																							
830686																							
830687																							
830688																							
830689																							
830690																							
830691																							
830692																							
830693																							
830694																							
830695																							
830696																							
830697																							
830698																							
830699																							
830700																							
830701																							
830702																							
830703																							
830704																							
830705																							
830706																							
830707																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
830708																							
830709																							
830710																							
830711																							
830712																							
830713																							
830714																							
830715																							
830716																							
830717																							
830718																							
830719																							
830720																							
830721																							
830722																							
830723																							
830724																							
830725																							
830726																							
830727																							
830728																							
830729																							
830730																							
830731																							
830732																							
830733																							
830734	36.8	19.1	0.8	3.8	4.8	392	98	2.3	1.27	< 0.1	< 1	< 0.1	< 0.1	111	14.5	31.3	3.7	12.4	2.3	1.6	0.2	1.1	43.7
830735																							
830736																							
830737																							
830738																							
830739																							
830740																							
830741																							
830742																							
830743																							
830744																							
830745																							
830746																							
830747																							
830748																							
830749																							
830750																							
830751																							
830752																							
830753																							
830754																							
830755																							
830756																							
830757																							
830758																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
830759																							
830760																							
830761																							
830762																							
830763																							
830764																							
830765																							
830766																							
830767																							
830768																							
830769																							
830770																							
830771																							
830772																							
830773																							
830774																							
830775																							
830776																							
830777																							
830778																							
830779																							
830780																							
830781																							
830782																							
830783																							
830784																							
830785																							
830786																							
830787																							
830788																							
830789																							
830790																							
830791																							
830792																							
830793																							
830794																							
830795																							
830796																							
830797																							

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
830606															
830607															
830608															
830609															
830610															
830611															
830612															
830613															
830614															
830615															
830616															
830617															
830618															
830619															
830620															
830621															
830622															
830623															
830624															
830625															
830626															
830627															
830628															
830629															
830630															
830631															
830632															
830633															
830634															
830635															
830636															
830637															
830638															
830639															
830640															
830641															
830642															
830643															
830644															
830645															
830646															
830647															
830648															
830649															
830650															
830651															
830652															
830653															
830654															
830655															
830656															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
830657															
830658															
830659															
830660															
830661															
830662															
830663															
830664															
830665															
830666															
830667															
830668															
830669															
830670															
830671															
830672															
830673															
830674															
830675															
830676															
830677															
830678															
830679															
830680															
830681															
830682															
830683															
830684															
830685															
830686															
830687															
830688															
830689															
830690															
830691															
830692															
830693															
830694															
830695															
830696															
830697															
830698															
830699															
830700															
830701															
830702															
830703															
830704															
830705															
830706															
830707															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
830708															
830709															
830710															
830711															
830712															
830713															
830714															
830715															
830716															
830717															
830718															
830719															
830720															
830721															
830722															
830723															
830724															
830725															
830726															
830727															
830728															
830729															
830730															
830731															
830732															
830733															
830734	< 0.1	< 0.1	0.4	< 0.1	< 0.1	2.7	< 0.001	< 0.05	3.7	5	2.6	0.5	0.215	0.048	0.06
830735															
830736															
830737															
830738															
830739															
830740															
830741															
830742															
830743															
830744															
830745															
830746															
830747															
830748															
830749															
830750															
830751															
830752															
830753															
830754															
830755															
830756															
830757															
830758															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
830759															
830760															
830761															
830762															
830763															
830764															
830765															
830766															
830767															
830768															
830769															
830770															
830771															
830772															
830773															
830774															
830775															
830776															
830777															
830778															
830779															
830780															
830781															
830782															
830783															
830784															
830785															
830786															
830787															
830788															
830789															
830790															
830791															
830792															
830793															
830794															
830795															
830796															
830797															

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Oreas 72a (4 Acid) Meas										173		9.58		> 5000						158			
Oreas 72a (4 Acid) Cert										228		9.63		6930.000						157			
OREAS 101b (4 Acid) Meas				1.26		2.56			80		929	10.5		7.4	14.8		5.0			45.8	7.79		
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7		8.2	15		5.2			45	8.1		
OREAS 98 (4 Acid) Meas																		44.0		116		99.1	175
OREAS 98 (4 Acid) Cert																		45.1		121		97.2	158
OREAS 13b (4-Acid) Meas										> 5000				2130				0.90		74.3			
OREAS 13b (4-Acid) Cert										8650.000				2247.000				0.86		75			
OREAS 96 (4 Acid) Meas																		11.1		49.3		28.2	42.6
OREAS 96 (4 Acid) Cert																		11.5		49.9		26.3	40.7
OREAS 923 (4 Acid) Meas		32.4	0.34	1.82	8.07	1.90	0.47	0.4	90	79	928	6.54	3.6	37.2	2.7	2.5	0.9	1.69	6.33	22.6	1.23	18.6	6.0
OREAS 923 (4 Acid) Cert		31.4	0.324	1.69	7.29	2.51	0.473	0.420	91.0	71.0	950	6.43	3.42	35.8	2.86	2.42	0.960	1.60	6.70	23.1	1.37	21.4	6.54
OREAS 621 (4 Acid) Meas		13.8	1.33	0.51	6.35	2.01	1.96	280	35	31	483	3.83	4.0	25.7		1.7		65.2	3.18	29.8		4.08	5.2
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41	26.2		1.69		69.0	3.28	29.3		3.93	5.64
Oreas 77b (4 Acid) Meas		16.0	0.37	2.26	1.63	0.32	2.75	1.1	30	224	619	27.4	1.1	> 5000		0.4		1.51	2.10	> 500		3.35	
Oreas 77b (4 Acid) Cert		18.8	0.434	2.59	1.94	0.361	3.06	1.20	33.6	280	640	29.9	1.15	113000		0.470		1.62	2.32	1550		3.44	
OREAS 228b (Fire Assay) Meas	8650																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8500																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8640																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8380																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8670																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8490																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8430																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 228b (Fire Assay) Cert	8570																						
Oreas E1336 (Fire Assay) Meas	509																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	519																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	529																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	498																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	512																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	508																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	505																						
Oreas E1336 (Fire Assay) Cert	510																						
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
OREAS 70b (4 Acid) Meas		33.0	0.79	13.7	3.97	0.57	3.32	0.3	62		1130	5.64	1.8	2100		1.0		0.18	3.27	82.0		0.87	
OREAS 70b (4 Acid) Cert		34.4	0.77	13.4	3.87	0.62	3.05	0.4	67		1150	5.52	1.9	2180		1		0.17	3.44	78.0		0.84	
830607 Orig	5																						
830607 Dup	6																						
830621 Orig	7																						
830621 Dup	5																						
830642 Orig	6																						
830642 Dup	7																						
830655 Orig	5																						
830655 Split PREP DUP	5																						
830656 Orig	5																						
830656 Dup	5																						
830664 Orig	6																						
830664 Dup	6																						
830676 Orig	< 5																						
830676 Dup	< 5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
830690 Orig	< 5																						
830690 Dup	< 5																						
830699 Orig	< 5																						
830699 Dup	< 5																						
830705 Orig	< 5																						
830705 Split PREP DUP	< 5																						
830710 Orig	< 5																						
830710 Dup	< 5																						
830724 Orig	< 5																						
830724 Dup	< 5																						
830733 Orig	< 5																						
830733 Dup	< 5																						
830745 Orig	< 5																						
830745 Dup	< 5																						
830755 Orig	< 5																						
830755 Split PREP DUP	< 5																						
830758 Orig	< 5																						
830758 Dup	< 5																						
830767 Orig	< 5																						
830767 Dup	< 5																						
830779 Orig	< 5																						
830779 Dup	< 5																						
830793 Orig	6																						
830793 Dup	5																						
830797 Orig	5																						
830797 Split PREP DUP	6																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	2	6	5	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.3
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	3	1	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.3
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	3	< 1	< 0.01	< 0.1	2.0	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.6

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	
Oreas 72a (4 Acid) Meas			6.0																				318	
Oreas 72a (4 Acid) Cert			14.7																					316
OREAS 101b (4 Acid) Meas					133				20.9						775	1350	127	382	49.3	37.4	4.8	26.0	420	
OREAS 101b (4 Acid) Cert					133				20.1						754	1325	127	388	48	40	5.4	27	412	
OREAS 98 (4 Acid) Meas	1320										> 200	9.5											> 10000	
OREAS 98 (4 Acid) Cert	1360										206	20.1												14800 0.0
OREAS 13b (4-Acid) Meas	141		54.4						9.00															2280
OREAS 13b (4-Acid) Cert	133		57						9.0															2327.0 000
OREAS 96 (4 Acid) Meas	440										66	5.5												> 10000
OREAS 96 (4 Acid) Cert	457										65.6	5.09												39300
OREAS 923 (4 Acid) Meas	338	16.3	8.7	144	25.3	43.6	120	13.4	1.06	0.5	14	1.4		363	40.7	81.0	9.5	33.4	6.1	5.5	0.8	4.8	4490	
OREAS 923 (4 Acid) Cert	345	20.3	7.61	166	26.4	43.0	116	14.1	0.930	0.520	13.3	1.29		434	42.2	83.0	9.58	35.4	6.64	5.73	0.850	5.05	4230	
OREAS 621 (4 Acid) Meas	> 10000	25.0	76.0	83.9	11.0	65.6	148	9.0	13.7	1.7	5	28.1			17.3	44.7					0.5		3630	
OREAS 621 (4 Acid) Cert	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6					0.460		3630	
Oreas 77b (4 Acid) Meas	199	4.2	1510	18.5	6.2	35.4	34	2.8		0.1	1	5.2	1.1	22	14.7	25.4							3110	
Oreas 77b (4 Acid) Cert	205	4.61	2050	19.1	6.55	34.4	37.9	3.26		0.112	1.59	9.100	1.35	118	15.8	27.7							3430	
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 228b (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
OREAS 70b (4 Acid) Meas	109	7.0	144		9.4	77.9	69	3.4	3.10	< 0.1	1	0.6		211	15.0	27.8						49.6	
OREAS 70b (4 Acid) Cert	112	10	148		9.8	74.0	66	3.7	3.30	0.05	1	0.6		202	15.3	28.2						52.0	
830607 Orig																							
830607 Dup																							
830621 Orig																							
830621 Dup																							
830642 Orig																							
830642 Dup																							
830655 Orig																							
830655 Split PREP DUP																							
830656 Orig																							
830656 Dup																							
830664 Orig																							
830664 Dup																							
830676 Orig																							
830676 Dup																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
830690 Orig																							
830690 Dup																							
830699 Orig																							
830699 Dup																							
830705 Orig																							
830705 Split PREP DUP																							
830710 Orig																							
830710 Dup																							
830724 Orig																							
830724 Dup																							
830733 Orig																							
830733 Dup																							
830745 Orig																							
830745 Dup																							
830755 Orig																							
830755 Split PREP DUP																							
830758 Orig																							
830758 Dup																							
830767 Orig																							
830767 Dup																							
830779 Orig																							
830779 Dup																							
830793 Orig																							
830793 Dup																							
830797 Orig																							
830797 Split PREP DUP																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	0.4	0.2	0.7	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.3
Method Blank	< 0.2	0.3	0.8	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.11	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	1.2
Method Blank	< 0.2	0.2	1.0	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.07	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Oreas 72a (4 Acid) Meas															1.67
Oreas 72a (4 Acid) Cert															1.74
OREAS 101b (4 Acid) Meas		2.0	13.1	1.8					22.5		38.5	374	0.368	0.116	
OREAS 101b (4 Acid) Cert		2.08	13.9	1.96					23		36.4	387	0.35		
OREAS 98 (4 Acid) Meas									335						16.6
OREAS 98 (4 Acid) Cert									345						15.5
OREAS 13b (4-Acid) Meas															1.18
OREAS 13b (4-Acid) Cert															1.2
OREAS 96 (4 Acid) Meas									97.1						4.35
OREAS 96 (4 Acid) Cert									101						4.19
OREAS 923 (4 Acid) Meas		0.4	2.5	0.4	1.0	5.2		0.84	84.9	13	16.9	2.9	0.421	0.064	0.73
OREAS 923 (4 Acid) Cert		0.410	2.57	0.390	1.11	4.85		0.860	83.0	13.1	16.5	3.06	0.405	0.0630	0.691
OREAS 621 (4 Acid) Meas			0.9	0.1		1.9		2.02	> 5000	6	5.3	2.6	0.188	0.036	4.70
OREAS 621 (4 Acid) Cert			0.990	0.140		2.35		1.96	13600	6.24	7.48	2.83	0.149	0.0359	4.48
Oreas 77b (4 Acid) Meas					0.2	2.7	0.020	1.35	55.6		6.2	1.6			
Oreas 77b (4 Acid) Cert					0.280	3.07	0.0220	1.37	61.0		6.61	1.71			
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
OREAS 228b (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
OREAS 681 (4 Acid) Meas										26			0.573	0.137	0.10
OREAS 681 (4 Acid) Cert										27.7			0.588	0.141	0.109
OREAS 147 (4 Acid) Meas										11			0.248	0.104	0.02
OREAS 147 (4 Acid) Cert										10.7			0.470	0.155	0.0300
OREAS 70b (4 Acid) Meas					0.3	4.5		0.33	12.9	12	6.5	1.6	0.174	0.022	0.30
OREAS 70b (4 Acid) Cert					0.3	4.9		0.33	13.7	12	6.9	1.7	0.181	0.022	0.31
830607 Orig															
830607 Dup															
830621 Orig															
830621 Dup															
830642 Orig															
830642 Dup															
830655 Orig															
830655 Split PREP DUP															
830656 Orig															
830656 Dup															
830664 Orig															
830664 Dup															
830676 Orig															
830676 Dup															



Harte Gold Corp.
 161 Bay Street
 Suite 2400
 Toronto Ontario M5J 2S1
 Canada

Report No.: A21-19515
 Report Date: 21-Oct-21
 Date Submitted: 18-Oct-21
 Your Reference: Exploration/Prospecting

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

169 Rock samples were submitted for analysis.

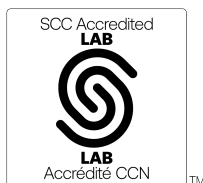
The following analytical package(s) were requested:		Testing Date:
1A2-Tbay-Harte Gold	QOP AA-Au (Au - Fire Assay AA)	2021-10-20 21:15:44

REPORT **A21-19515**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3



LabID: 673

ACTIVATION LABORATORIES LTD.
 1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
 TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
 E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Emmanuel Esemé, Ph.D.
 Quality Control Coordinator

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
830798	< 5
830799	< 5
830800	5420
830801	< 5
830802	< 5
830803	< 5
830804	< 5
830805	< 5
830806	< 5
830807	< 5
830808	< 5
830809	< 5
830810	< 5
830811	< 5
830812	< 5
830813	< 5
830814	< 5
830815	< 5
830816	< 5
830817	< 5
830818	< 5
830819	< 5
830820	6520
830821	< 5
830822	< 5
830823	< 5
830824	< 5
830825	< 5
830826	< 5
830827	< 5
830828	< 5
830829	< 5
830830	< 5
830831	< 5
830832	< 5
830833	< 5
830834	< 5
830835	< 5
830836	< 5
830837	< 5
830838	< 5
830839	< 5
830840	3590
830841	< 5
830842	< 5
830843	< 5
830844	< 5
830845	< 5
830846	< 5
830847	< 5
830848	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
830849	< 5
830850	< 5
830851	< 5
830852	< 5
830853	< 5
830854	< 5
830855	< 5
830856	< 5
830857	< 5
830858	< 5
830859	< 5
830860	5470
830861	< 5
830862	< 5
830863	< 5
830864	< 5
830865	< 5
830866	< 5
830867	< 5
830868	< 5
830869	< 5
830870	< 5
830871	< 5
830872	< 5
830873	< 5
830874	< 5
830875	< 5
830876	< 5
830877	< 5
830878	8
830879	< 5
830880	6650
830881	< 5
830882	< 5
830883	< 5
830884	< 5
830885	< 5
830886	< 5
830887	< 5
830888	< 5
830889	< 5
830890	< 5
830891	< 5
830892	< 5
830893	< 5
830894	< 5
830895	< 5
830896	< 5
830897	< 5
830898	< 5
830899	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
830900	3550
830901	< 5
830902	< 5
830903	< 5
830904	< 5
830905	< 5
830906	< 5
830907	< 5
830908	< 5
830909	< 5
830910	< 5
830911	< 5
830912	< 5
830913	< 5
830914	< 5
830915	< 5
830916	< 5
830917	< 5
830918	< 5
830919	< 5
830920	5460
830921	< 5
830922	< 5
830923	< 5
830924	< 5
830925	< 5
830926	< 5
830927	< 5
830928	< 5
830929	< 5
830930	< 5
830931	< 5
830932	< 5
830933	< 5
830934	< 5
830935	< 5
830936	< 5
830937	< 5
830938	< 5
830939	< 5
830940	6570
830941	< 5
830942	< 5
830943	< 5
830944	< 5
830945	< 5
830946	< 5
830947	< 5
830948	< 5
830949	< 5
830950	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
830951	< 5
830952	< 5
830955	7
830956	< 5
830957	< 5
830958	< 5
830959	< 5
830960	3620
830961	< 5
830962	< 5
830963	< 5
830964	< 5
830965	< 5
830966	< 5
830967	< 5
830968	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OREAS 228b (Fire Assay) Meas	8630
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8680
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8760
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8730
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8670
OREAS 228b (Fire Assay) Cert	8570
Oreas E1336 (Fire Assay) Meas	519
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	517
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	526
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	514
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	523
Oreas E1336 (Fire Assay) Cert	510
830799 Orig	< 5
830799 Dup	< 5
830813 Orig	< 5
830813 Dup	< 5
830822 Orig	< 5
830822 Dup	< 5
830834 Orig	< 5
830834 Dup	< 5
830847 Orig	< 5
830847 Split PREP DUP	< 5
830848 Orig	< 5
830848 Dup	< 5
830856 Orig	< 5
830856 Dup	< 5
830868 Orig	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
830868 Dup	< 5
830882 Orig	< 5
830882 Dup	< 5
830891 Orig	< 5
830891 Dup	< 5
830897 Orig	< 5
830897 Split PREP DUP	< 5
830902 Orig	< 5
830902 Dup	< 5
830916 Orig	< 5
830916 Dup	< 5
830925 Orig	< 5
830925 Dup	< 5
830937 Orig	< 5
830937 Dup	< 5
830947 Orig	< 5
830947 Split PREP DUP	< 5
830950 Orig	< 5
830950 Dup	< 5
830961 Orig	< 5
830961 Dup	< 5
830968 Orig	< 5
830968 Split PREP DUP	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5



Report No.: A21-19794
Report Date: 10-Nov-21
Date Submitted: 20-Oct-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

112 Rock samples were submitted for analysis.

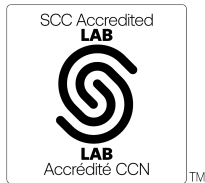
Table with 2 columns: Analytical package(s) requested and Testing Date. Row 1: UT-6, QOP Total/QOP Ultratrace- 4acid Digest (Total Digestion ICPOES/ICPMS), 2021-11-01 17:25:40

REPORT A21-19794

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 266

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

[Handwritten signature]

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

Report No.: A21-19794
Report Date: 10-Nov-21
Date Submitted: 20-Oct-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

112 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-Tbay-Harte Gold	QOP AA-Au (Au - Fire Assay AA)	2021-10-21 19:11:34

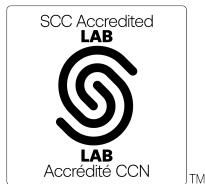
REPORT **A21-19794**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 673

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
830969	7																						
830970	< 5																						
830971	< 5																						
830972	< 5																						
830973	5																						
830974	< 5																						
830975	6																						
830976	< 5																						
830977	5																						
830978	5																						
830979	< 5																						
830980	5500																						
830981	5																						
830982	< 5																						
830983	< 5																						
830984	< 5																						
830985	< 5																						
830986	6																						
830987	< 5																						
830988	< 5																						
830989	< 5																						
830990	< 5																						
830991	9																						
830992	9																						
830993	< 5																						
830994	< 5																						
830995	< 5	44.9	1.76	1.75	8.32	0.60	4.55	0.1	144	226	2080	11.5	0.6	93.4	3.2	0.5	1.1	0.07	8.19	45.5	0.95	0.15	< 0.1
830996	< 5																						
830997	< 5																						
830998	< 5																						
830999	< 5																						
831000	6720																						
831501	5																						
831502	< 5																						
831503	5																						
831504	7																						
831505	< 5																						
831506	< 5																						
831507	< 5																						
831508	< 5	20.4	> 3.00	0.10	8.15	2.35	1.13	< 0.1	7	13	440	0.86	2.9	1.8	0.7	1.4	0.3	0.13	9.22	0.6	0.68	0.14	< 0.1
831509	< 5																						
831510	< 5																						
831511	5																						
831512	< 5																						
831513	5																						
831514	6																						
831515	< 5																						
831516	< 5																						
831517	< 5																						
831518	119																						
831519	13																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
831520	5580																						
831521	6																						
831522	5																						
831523	< 5																						
831524	5																						
831525	< 5																						
831526	< 5																						
831527	5																						
831528	5																						
831529	6																						
831530	< 5																						
831531	< 5																						
831532	6																						
831533	20																						
831534	10																						
831535	18																						
831536	15																						
831537	12																						
831538	< 5																						
831539	< 5																						
831540	6670																						
831541	26																						
831542	7																						
831543	10																						
831544	< 5																						
831545	15																						
831546	5																						
831547	< 5																						
831548	11																						
831549	< 5																						
831550	< 5																						
831551	< 5																						
831552	95																						
831553	< 5																						
831554	< 5																						
831555	< 5																						
831556	< 5																						
831557	< 5																						
831558	< 5																						
831559	25																						
831560	3620																						
831561	< 5																						
831562	< 5																						
831563	< 5																						
831564	< 5																						
831565	< 5																						
831566	< 5																						
831567	< 5																						
831568	< 5																						
831569	< 5																						
831570	< 5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
831571	< 5																						
831572	< 5																						
831573	< 5																						
831574	< 5																						
831575	< 5																						
831576	< 5																						
831577	24																						
831578	8																						
831579	< 5																						
831580	5430																						

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
830969																							
830970																							
830971																							
830972																							
830973																							
830974																							
830975																							
830976																							
830977																							
830978																							
830979																							
830980																							
830981																							
830982																							
830983																							
830984																							
830985																							
830986																							
830987																							
830988																							
830989																							
830990																							
830991																							
830992																							
830993																							
830994																							
830995	100	17.3	0.9	25.1	27.4	163	21	0.1	0.18	< 0.1	< 1	< 0.1	< 0.1	177	6.3	14.8	2.2	11.0	2.4	3.8	0.6	4.3	101
830996																							
830997																							
830998																							
830999																							
831000																							
831501																							
831502																							
831503																							
831504																							
831505																							
831506																							
831507																							
831508	37.9	17.3	< 0.1	78.2	7.5	409	85	6.1	0.88	< 0.1	< 1	< 0.1	< 0.1	1090	22.0	44.3	5.0	17.7	2.1	2.0	0.2	1.3	31.2
831509																							
831510																							
831511																							
831512																							
831513																							
831514																							
831515																							
831516																							
831517																							
831518																							
831519																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
831520																							
831521																							
831522																							
831523																							
831524																							
831525																							
831526																							
831527																							
831528																							
831529																							
831530																							
831531																							
831532																							
831533																							
831534																							
831535																							
831536																							
831537																							
831538																							
831539																							
831540																							
831541																							
831542																							
831543																							
831544																							
831545																							
831546																							
831547																							
831548																							
831549																							
831550																							
831551																							
831552																							
831553																							
831554																							
831555																							
831556																							
831557																							
831558																							
831559																							
831560																							
831561																							
831562																							
831563																							
831564																							
831565																							
831566																							
831567																							
831568																							
831569																							
831570																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
831571																							
831572																							
831573																							
831574																							
831575																							
831576																							
831577																							
831578																							
831579																							
831580																							

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
830969															
830970															
830971															
830972															
830973															
830974															
830975															
830976															
830977															
830978															
830979															
830980															
830981															
830982															
830983															
830984															
830985															
830986															
830987															
830988															
830989															
830990															
830991															
830992															
830993															
830994															
830995	0.2	0.4	3.0	0.5	< 0.1	< 0.1	< 0.001	0.14	2.0	40	0.7	0.2	0.180	0.057	0.22
830996															
830997															
830998															
830999															
831000															
831501															
831502															
831503															
831504															
831505															
831506															
831507															
831508	< 0.1	0.1	0.8	0.1	0.4	0.6	< 0.001	0.56	21.1	2	6.5	2.4	0.0617	0.013	0.08
831509															
831510															
831511															
831512															
831513															
831514															
831515															
831516															
831517															
831518															
831519															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
831520															
831521															
831522															
831523															
831524															
831525															
831526															
831527															
831528															
831529															
831530															
831531															
831532															
831533															
831534															
831535															
831536															
831537															
831538															
831539															
831540															
831541															
831542															
831543															
831544															
831545															
831546															
831547															
831548															
831549															
831550															
831551															
831552															
831553															
831554															
831555															
831556															
831557															
831558															
831559															
831560															
831561															
831562															
831563															
831564															
831565															
831566															
831567															
831568															
831569															
831570															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
831571															
831572															
831573															
831574															
831575															
831576															
831577															
831578															
831579															
831580															

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 72a (4 Acid) Meas										178		9.91		> 5000						155			
OREAS 72a (4 Acid) Cert										228		9.63		6930.000						157			
OREAS 101b (4 Acid) Meas				1.24		2.30			80		924	10.7		8.7	14.0		4.9			46.5	7.20		
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7		8.2	15		5.2			45	8.1		
OREAS 98 (4 Acid) Meas																		44.7		127		91.9	176
OREAS 98 (4 Acid) Cert																		45.1		121		97.2	158
OREAS 13b (4-Acid) Meas										> 5000				2250				0.88		76.7			
OREAS 13b (4-Acid) Cert										8650.000				2247.000				0.86		75			
OREAS 904 (4 Acid) Meas		17.0	0.04	0.64	7.19	3.01	0.06		85	58	422	7.07	5.0	41.0		8.8	0.60	3.59	90.7			4.02	2.3
OREAS 904 (4 Acid) Cert		16.7	0.0340	0.556	6.30	3.31	0.0460		76.0	54.0	410	6.68	5.00	40.1		7.86	0.551	3.79	83.0			4.05	3.30
OREAS 45d (4-Acid) Cert																							
OREAS 96 (4 Acid) Meas																		11.1		50.7		26.5	40.7
OREAS 96 (4 Acid) Cert																		11.5		49.9		26.3	40.7
OREAS 923 (4 Acid) Meas		32.8	0.34	1.80	7.98	1.88	0.48	0.4	97	77	920	6.86	3.5	36.8	2.5	2.3	1.0	1.92	6.15	22.7	1.31	19.3	5.1
OREAS 923 (4 Acid) Cert		31.4	0.324	1.69	7.29	2.51	0.473	0.420	91.0	71.0	950	6.43	3.42	35.8	2.86	2.42	0.960	1.60	6.70	23.1	1.37	21.4	6.54
OREAS 621 (4 Acid) Meas		15.2	1.50	0.42	6.71	2.02	2.02	287	36	40	527	3.88	4.2	29.1		1.8		61.7	3.20	32.0		3.86	4.9
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41	26.2		1.69		69.0	3.28	29.3		3.93	5.64
OREAS 77b (4 Acid) Meas		16.5	0.34	2.17	1.56	0.31	2.68	1.2	28	243	586	26.5	1.1	> 5000		0.4		1.51	2.13	> 500		3.02	
OREAS 77b (4 Acid) Cert		18.8	0.434	2.59	1.94	0.361	3.06	1.20	33.6	280	640	29.9	1.15	113000		0.470		1.62	2.32	1550		3.44	
OREAS 228b (Fire Assay) Meas	8240																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8610																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8770																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8740																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8730																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8710																						
OREAS 228b (Fire Assay) Cert	8570																						
Oreas E1336 (Fire Assay) Meas	523																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	512																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	512																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	514																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	516																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	505																						
Oreas E1336 (Fire Assay) Cert	510																						
OREAS 681 (4 Acid) Meas		12.9	1.60	5.30	8.57	1.47	6.17		255	1740	1410	8.07	1.8	518	1.9	1.4	0.7	0.22	4.22	53.8	1.35	0.09	
OREAS 681 (4 Acid) Cert		13.0	1.61	5.19	7.91	1.35	5.98		253	1640	1310	7.47	1.70	503	1.97	1.41	0.690	0.118	4.02	51.0	1.37	0.0980	
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
OREAS 70b (4 Acid) Meas		34.4	0.81	14.3	4.31	0.64	3.18	0.4	61		1180	5.73	1.7	2110		0.9		0.21	3.39	83.4		0.87	
OREAS 70b (4 Acid) Cert		34.4	0.77	13.4	3.87	0.62	3.05	0.4	67		1150	5.52	1.9	2180		1		0.17	3.44	78.0		0.84	
830971 Orig	< 5																						
830971 Dup	< 5																						
830984 Orig	< 5																						
830984 Dup	< 5																						
830993 Orig	6																						
830993 Dup	< 5																						
831505 Orig	5																						

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Oreas 72a (4 Acid) Meas			5.5																				328
Oreas 72a (4 Acid) Cert			14.7																				316
OREAS 101b (4 Acid) Meas					125				18.9						751	1230	116	369	46.3	35.7	4.0	23.1	418
OREAS 101b (4 Acid) Cert					133				20.1						754	1325	127	388	48	40	5.4	27	412
OREAS 98 (4 Acid) Meas	1350										> 200	6.5											> 10000
OREAS 98 (4 Acid) Cert	1360										206	20.1											14800 0.0
OREAS 13b (4-Acid) Meas	147		55.1						8.80														2360
OREAS 13b (4-Acid) Cert	133		57						9.0														2327.0 000
OREAS 904 (4 Acid) Meas	27.1	17.2	109	112	31.9	28.5	180		2.09	0.2	3	1.5		196	45.9	84.5					0.9		6240
OREAS 904 (4 Acid) Cert	26.3	16.7	98.0	130	31.5	27.2	171		2.12	0.220	2.83	1.48		194	43.2	86.0					1.00		6120
OREAS 45d (4-Acid) Meas																							
OREAS 45d (4-Acid) Cert																							
OREAS 96 (4 Acid) Meas	416										68	3.7											> 10000
OREAS 96 (4 Acid) Cert	457										65.6	5.09											39300
OREAS 923 (4 Acid) Meas	331	18.5	8.3	136	24.6	42.1	120	14.4	0.99	0.5	13	1.4		395	42.9	79.8	9.4	35.3	5.8	5.5	0.8	4.7	4150
OREAS 923 (4 Acid) Cert	345	20.3	7.61	166	26.4	43.0	116	14.1	0.930	0.520	13.3	1.29		434	42.2	83.0	9.58	35.4	6.64	5.73	0.850	5.05	4230
OREAS 621 (4 Acid) Meas	> 10000	25.4	79.2	76.0	11.5	60.1	155	10.1	13.3	1.7	5	19.6			15.8	40.0					0.5		3640
OREAS 621 (4 Acid) Cert	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6					0.460		3630
Oreas 77b (4 Acid) Meas	174	4.4	1690	18.0	6.5	32.3	39	3.4		0.1	1	9.9	1.3	15	15.1	25.4							3030
Oreas 77b (4 Acid) Cert	205	4.61	2050	19.1	6.55	34.4	37.9	3.26		0.112	1.59	9.100	1.35	118	15.8	27.7							3430
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
831505 Dup																							
831514 Orig																							
831514 Dup																							
831518 Orig																							
831518 Split PREP DUP																							
831521 Orig																							
831521 Dup																							
831527 Orig																							
831527 Dup																							
831539 Orig																							
831539 Dup																							
831553 Orig																							
831553 Dup																							
831562 Orig																							
831562 Dup																							
831568 Orig																							
831568 Split PREP DUP																							
831573 Orig																							
831573 Dup																							
831579 Orig																							
831579 Split PREP DUP																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	2.0	0.3	0.9	< 0.2	< 0.1	0.4	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.9

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Oreas 72a (4 Acid) Meas															1.69
Oreas 72a (4 Acid) Cert															1.74
OREAS 101b (4 Acid) Meas		2.0	12.8	1.8					23.4		38.7	377	0.360	0.116	
OREAS 101b (4 Acid) Cert		2.08	13.9	1.96					23		36.4	387	0.35		
OREAS 98 (4 Acid) Meas									348						16.2
OREAS 98 (4 Acid) Cert									345						15.5
OREAS 13b (4-Acid) Meas															
OREAS 13b (4-Acid) Cert															
OREAS 904 (4 Acid) Meas	0.2		3.2	0.5	0.4	2.2		0.54	11.7	12	16.1	8.9		0.104	0.06
OREAS 904 (4 Acid) Cert	0.180		3.14	0.470	0.540	2.12		0.520	10.6	11.2	14.3	8.43		0.0980	0.0630
OREAS 45d (4-Acid) Meas										51			0.401	0.036	0.05
OREAS 45d (4-Acid) Cert										49.30			0.773	0.042	0.049
OREAS 96 (4 Acid) Meas									103						
OREAS 96 (4 Acid) Cert									101						
OREAS 923 (4 Acid) Meas		0.4	2.5	0.4	1.1	5.1		0.85	86.9		16.9	2.9			
OREAS 923 (4 Acid) Cert		0.410	2.57	0.390	1.11	4.85		0.860	83.0		16.5	3.06			
OREAS 621 (4 Acid) Meas			1.0	0.1		2.4		2.33	> 5000	6	3.9	2.9	0.185	0.036	4.76
OREAS 621 (4 Acid) Cert			0.990	0.140		2.35		1.96	13600	6.24	7.48	2.83	0.149	0.0359	4.48
Oreas 77b (4 Acid) Meas					0.3	3.1	0.019	1.24	55.6	3	6.1	1.6	0.0595		
Oreas 77b (4 Acid) Cert					0.280	3.07	0.0220	1.37	61.0	3.51	6.61	1.71	0.0640		
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
OREAS 681 (4 Acid) Meas		0.3	1.7	0.2	0.6	1.3			10.7	26	6.7	1.4	0.571	0.137	0.10
OREAS 681 (4 Acid) Cert		0.280	1.77	0.270	0.420	1.09			10.2	27.7	6.55	1.44	0.588	0.141	0.109
OREAS 681 (4 Acid) Meas										26			0.571	0.136	0.10
OREAS 681 (4 Acid) Cert										27.7			0.588	0.141	0.109
OREAS 147 (4 Acid) Meas										11			0.320	0.089	0.02
OREAS 147 (4 Acid) Cert										10.7			0.470	0.155	0.0300
OREAS 147 (4 Acid) Meas										11			0.268	0.091	0.02
OREAS 147 (4 Acid) Cert										10.7			0.470	0.155	0.0300
OREAS 70b (4 Acid) Meas					0.2	5.5		0.33	13.6	11	6.3	1.6	0.170	0.021	0.29
OREAS 70b (4 Acid) Cert					0.3	4.9		0.33	13.7	12	6.9	1.7	0.181	0.022	0.31
830971 Orig															
830971 Dup															
830984 Orig															
830984 Dup															
830993 Orig															
830993 Dup															
831505 Orig															

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
831505 Dup															
831514 Orig															
831514 Dup															
831518 Orig															
831518 Split PREP DUP															
831521 Orig															
831521 Dup															
831527 Orig															
831527 Dup															
831539 Orig															
831539 Dup															
831553 Orig															
831553 Dup															
831562 Orig															
831562 Dup															
831568 Orig															
831568 Split PREP DUP															
831573 Orig															
831573 Dup															
831579 Orig															
831579 Split PREP DUP															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank										< 1			< 0.0005	< 0.001	< 0.01
Method Blank										< 1			< 0.0005	< 0.001	< 0.01
Method Blank										< 1			< 0.0005	< 0.001	< 0.01
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01



Harte Gold Corp.
 161 Bay Street
 Suite 2400
 Toronto Ontario M5J 2S1
 Canada

Report No.: A21-19795
 Report Date: 22-Oct-21
 Date Submitted: 20-Oct-21
 Your Reference: Exploration/Prospecting

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

180 Rock samples were submitted for analysis.

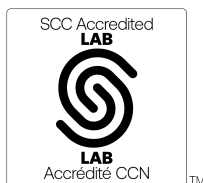
The following analytical package(s) were requested:		Testing Date:
1A2-Tbay-Harte Gold	QOP AA-Au (Au - Fire Assay AA)	2021-10-21 19:27:58

REPORT **A21-19795**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3



LabID: 673

ACTIVATION LABORATORIES LTD.
 1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
 TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
 E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Emmanuel Esemé, Ph.D.
 Quality Control Coordinator

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
831581	< 5
831582	< 5
831583	< 5
831584	< 5
831585	< 5
831586	< 5
831587	< 5
831588	< 5
831589	< 5
831590	< 5
831591	< 5
831592	< 5
831593	< 5
831594	< 5
831595	< 5
831596	< 5
831597	< 5
831598	< 5
831599	< 5
831600	6780
831601	< 5
831602	< 5
831603	< 5
831604	< 5
831605	< 5
831606	< 5
831607	< 5
831608	< 5
831609	< 5
831610	< 5
831611	< 5
831612	< 5
831613	< 5
831614	< 5
831615	< 5
831616	< 5
831617	< 5
831618	< 5
831619	< 5
831620	3540
831621	< 5
831622	< 5
831623	< 5
831624	< 5
831625	< 5
831626	< 5
831627	< 5
831628	< 5
831629	< 5
831630	< 5
831631	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
831632	< 5
831633	< 5
831634	< 5
831635	< 5
831636	< 5
831637	< 5
831638	< 5
831639	< 5
831640	5490
831641	6
831642	< 5
831643	< 5
831644	< 5
831645	< 5
831646	< 5
831647	< 5
831648	< 5
831649	< 5
831650	< 5
831651	< 5
831652	< 5
831653	< 5
831654	< 5
831655	< 5
831656	< 5
831657	< 5
831658	< 5
831659	< 5
831660	6710
831661	6
831662	< 5
831663	< 5
831664	< 5
831665	< 5
831666	< 5
831667	< 5
831668	< 5
831669	< 5
831670	< 5
831671	< 5
831672	< 5
831673	5
831674	< 5
831675	5
831676	< 5
831677	< 5
831678	< 5
831679	< 5
831680	3710
831681	6
831682	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
831683	< 5
831684	8
831685	< 5
831686	< 5
831687	< 5
831688	< 5
831689	< 5
831690	< 5
831691	< 5
831692	< 5
831693	< 5
831694	< 5
831695	< 5
831696	< 5
831697	< 5
831698	< 5
831699	< 5
831700	5440
831701	< 5
831702	< 5
831703	< 5
831704	< 5
831705	< 5
831706	< 5
831707	< 5
831708	< 5
831709	< 5
831710	< 5
831711	< 5
831712	< 5
831713	< 5
831714	< 5
831715	< 5
831716	< 5
831717	< 5
831718	< 5
831719	< 5
831720	6620
831721	< 5
831722	< 5
831723	< 5
831724	< 5
831725	< 5
831726	< 5
831727	< 5
831728	< 5
831729	5
831730	< 5
831731	< 5
831732	< 5
831733	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
831734	< 5
831735	< 5
831736	< 5
831737	< 5
831738	< 5
831739	< 5
831740	3460
831741	< 5
831742	< 5
831743	< 5
831744	< 5
831745	< 5
831746	< 5
831747	< 5
831748	< 5
831749	5
831750	< 5
831751	< 5
831752	< 5
831753	5
831754	< 5
831755	< 5
831756	< 5
831757	< 5
831758	< 5
831759	< 5
831760	5490

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OREAS 228b (Fire Assay) Meas	8640
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8570
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8700
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8890
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8730
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8640
OREAS 228b (Fire Assay) Cert	8570
Oreas E1336 (Fire Assay) Meas	495
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	505
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	517
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	520
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	518
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	508
Oreas E1336 (Fire Assay) Cert	510
831582 Orig	< 5
831582 Dup	< 5
831596 Orig	< 5
831596 Dup	< 5
831605 Orig	< 5
831605 Dup	< 5
831617 Orig	< 5
831617 Dup	< 5
831631 Orig	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
831631 Split PREP DUP	< 5
831631 Orig	< 5
831631 Dup	< 5
831639 Orig	< 5
831639 Dup	< 5
831651 Orig	< 5
831651 Dup	< 5
831665 Orig	< 5
831665 Dup	< 5
831674 Orig	< 5
831674 Dup	< 5
831681 Orig	6
831681 Split PREP DUP	< 5
831685 Orig	< 5
831685 Dup	< 5
831699 Orig	< 5
831699 Dup	< 5
831708 Orig	< 5
831708 Dup	< 5
831721 Orig	< 5
831721 Dup	< 5
831731 Orig	< 5
831731 Split PREP DUP	< 5
831733 Orig	< 5
831733 Dup	< 5
831742 Orig	< 5
831742 Dup	< 5
831754 Orig	5
831754 Dup	< 5
831759 Orig	< 5
831759 Split PREP DUP	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	5



Report No.: A21-20008
Report Date: 27-Oct-21
Date Submitted: 22-Oct-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

210 Rock samples were submitted for analysis.

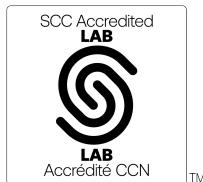
Table with 2 columns: The following analytical package(s) were requested: and Testing Date:
1A2-Tbay-Harte Gold | QOP AA-Au (Au - Fire Assay AA) | 2021-10-25 15:17:12

REPORT A21-20008

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3



LabID: 673

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Handwritten signature of Emmanuel Eseme

Emmanuel Eseme, Ph.D.
Quality Control Coordinator

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
831761	< 5
831762	< 5
831763	< 5
831764	< 5
831765	< 5
831766	< 5
831767	< 5
831768	< 5
831769	< 5
831770	< 5
831771	< 5
831772	< 5
831773	< 5
831774	< 5
831775	< 5
831776	< 5
831777	7
831778	6
831779	< 5
831780	6870
831781	7
831782	< 5
831783	< 5
831784	< 5
831785	< 5
831786	< 5
831787	< 5
831788	< 5
831789	< 5
831790	< 5
831791	< 5
831792	< 5
831793	< 5
831794	< 5
831795	< 5
831796	< 5
831797	< 5
831798	< 5
831799	< 5
831800	3560
831801	5
831802	< 5
831803	< 5
831804	< 5
831805	< 5
831806	< 5
831807	< 5
831808	< 5
831809	< 5
831810	< 5
831811	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
831812	< 5
831813	< 5
831814	< 5
831815	< 5
831816	< 5
831817	< 5
831818	< 5
831819	< 5
831820	5450
831821	5
831822	< 5
831823	< 5
831824	< 5
831825	< 5
831826	< 5
831827	< 5
831828	< 5
831829	< 5
831830	< 5
831831	< 5
831832	< 5
831833	6
831834	< 5
831835	< 5
831836	< 5
831837	< 5
831838	< 5
831839	< 5
831840	6860
831841	< 5
831842	5
831843	5
831844	< 5
831845	< 5
831846	< 5
831847	< 5
831848	< 5
831849	< 5
831850	< 5
831851	< 5
831852	< 5
831853	6
831854	< 5
831855	< 5
831856	< 5
831857	< 5
831858	< 5
831859	< 5
831860	3500
831861	5
831862	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
831863	< 5
831864	< 5
831865	< 5
831866	< 5
831867	< 5
831868	< 5
831869	< 5
831870	< 5
831871	< 5
831872	< 5
831873	< 5
831874	< 5
831875	< 5
831876	< 5
831877	< 5
831878	< 5
831879	< 5
831880	5490
831881	5
831882	< 5
831883	< 5
831884	< 5
831885	< 5
831886	< 5
831887	5
831888	< 5
831889	5
831890	< 5
831891	< 5
831892	< 5
831893	< 5
831894	< 5
831895	5
831896	< 5
831897	< 5
831898	< 5
831899	6
831900	6660
831901	9
831902	9
831903	8
831904	8
831905	8
831906	7
831907	6
831908	7
831909	8
831910	5
831911	8
831912	5
831913	8

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
831914	8
831915	6
831916	6
831917	7
831918	79
831919	8
831920	3600
831921	14
831922	6
831923	8
831924	7
831925	10
831926	12
831927	6
831928	9
831929	7
831930	5
831931	8
831932	8
831933	8
831934	7
831935	6
831936	8
831937	11
831938	9
831939	6
831940	5470
831941	11
831942	6
831943	8
831944	7
831945	8
831946	8
831947	8
831948	8
831949	9
831950	5
831951	7
831952	26
831953	130
831954	9
831955	7
831956	8
831957	6
831958	7
831959	7
831960	6660
831961	12
831962	7
831963	7
831964	12

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
831965	10
831966	10
831967	< 5
831968	9
831969	< 5
831970	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OREAS 228b (Fire Assay) Meas	8660
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8390
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8450
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8280
OREAS 228b (Fire Assay) Cert	8570
Oreas E1336 (Fire Assay) Meas	505
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	503
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	503
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	496
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	504
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	512
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	503
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	493
Oreas E1336 (Fire Assay) Cert	510
831762 Orig	< 5
831762 Dup	< 5
831776 Orig	10
831776 Dup	< 5
831785 Orig	< 5
831785 Dup	< 5
831797 Orig	< 5
831797 Dup	< 5
831811 Orig	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
831811 Split PREP DUP	< 5
831811 Orig	< 5
831811 Dup	< 5
831819 Orig	< 5
831819 Dup	< 5
831831 Orig	< 5
831831 Dup	< 5
831845 Orig	< 5
831845 Dup	< 5
831854 Orig	< 5
831854 Dup	< 5
831861 Orig	5
831861 Split PREP DUP	< 5
831865 Orig	< 5
831865 Dup	< 5
831879 Orig	< 5
831879 Dup	< 5
831888 Orig	< 5
831888 Dup	5
831901 Orig	9
831901 Dup	8
831911 Orig	8
831911 Split PREP DUP	8
831913 Orig	8
831913 Dup	7
831922 Orig	6
831922 Dup	5
831934 Orig	7
831934 Dup	6
831948 Orig	8
831948 Dup	7
831957 Orig	6
831957 Dup	6
831961 Orig	12
831961 Split PREP DUP	8
831968 Orig	12
831968 Dup	6
831969 Orig	< 5
831969 Split PREP DUP	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
Method Blank	< 5
Method Blank	5

Appendix G – 007 Zone – 2021 Actlabs Invoices

***Withheld for confidentiality.**

Appendix H – 007 Zone – 2021 G4 Invoices

***Withheld for confidentiality.**

