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NTS Sheet 031M05
Larker Lake Mining Division, Timiskaming District
Coleman and Gillies Limit Townships
Ontario, Canada

2018 ASSESSMENT REPORT ON THE HECTOR PROPERTY

Work Completed:

Ground Magnetic Geophysical Survey
Soil and Rock Geochemical Surveys
Diamond Drilling

Approximate Property Location:

596000E, 5243000N
(UTM NAD83 Zone 17N)

Prepared For: Cruz Cobalt Corp.
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Vancouver, British Columbia
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Contents

| | | |
|-------|--|----|
| 1 | Summary | 4 |
| 2 | Introduction | 7 |
| 3 | Property Description and Location | 9 |
| 3.1 | Description and Location | 9 |
| 3.2 | Regulatory Framework | 9 |
| 4 | Accessibility, Climate, Local Resources, Infrastructure and Physiography | 18 |
| 4.1 | Accessibility | 18 |
| 4.2 | Site Topography, Elevation and Vegetation | 18 |
| 4.3 | Climate | 18 |
| 4.4 | Local Resources and Infrastructure | 19 |
| 5 | History | 20 |
| 5.1 | Exploration and Development Work Conducted by Previous Owners | 20 |
| 5.1.1 | Bass Lake and Marsh Bay Areas | 28 |
| 5.1.2 | Montreal River, and Kelvin Lake Areas | 29 |
| 5.2 | Historical Production at the Hector Property | 32 |
| 6 | Geological Setting and Mineralization | 33 |
| 6.1 | Regional Geology | 33 |
| 6.1.1 | Archean Basement | 33 |
| 6.1.2 | Proterozoic Huronian Supergroup | 35 |
| 6.1.3 | Proterozoic Nipissing Diabase Sills | 35 |
| 6.1.4 | Regional Structural Geology | 36 |
| 6.2 | Property Geology | 37 |
| 6.3 | Mineralization | 39 |
| 7 | 2017 and 2018 Exploration | 41 |
| 7.1 | 2017 and 2018 Soil Geochemical Surveys | 41 |
| 7.2 | 2018 Rock Geochemical Survey | 51 |
| 7.3 | 2018 Ground Magnetometer Survey | 56 |
| 7.3.1 | Equipment and Procedures | 56 |
| 7.3.2 | Data Processing and QA/QC | 57 |
| 7.3.3 | Survey Results | 58 |
| 7.4 | Diamond Drilling | 61 |
| 7.4.1 | Hector Anomaly Results | 61 |
| 7.4.2 | Gillies East 1 Anomaly Results | 66 |
| 7.4.3 | Gillies East 2 Anomaly Results | 66 |
| 8 | Sample Preparation, Analyses and Security | 69 |
| 8.1 | 2017 Soil Samples | 69 |
| 8.1.1 | Sample Collection and Shipping | 69 |
| 8.1.2 | Sample Preparation and Analysis | 69 |
| 8.1.3 | Quality Assurance and Quality Control | 69 |
| 8.2 | 2018 Soil Samples | 69 |
| 8.2.1 | Sample Collection and Shipping | 69 |
| 8.2.2 | Sample Preparation and Analysis | 70 |
| 8.2.3 | Quality Assurance and Quality Control | 70 |
| 8.3 | 2018 Rock Samples | 71 |

| | | |
|-------|---|----|
| 8.3.1 | Sample Collection and Shipping | 71 |
| 8.3.2 | Sample Preparation and Analysis | 71 |
| 8.3.3 | Quality Assurance and Quality Control | 72 |
| 8.4 | 2018 Diamond Drilling | 72 |
| 8.4.1 | Sample Collection and Shipping | 72 |
| 8.4.2 | Sample Preparation and Analysis | 73 |
| 8.4.3 | Quality Assurance and Quality Control | 73 |
| 9 | Exploration Expenditures | 78 |
| 10 | Interpretation and Conclusions | 79 |
| 11 | Recommendations | 80 |
| 12 | References | 81 |
| 13 | Certificate of Author | 84 |
| 13.1 | Kristopher Raffle Certificate of Author | 84 |
| 13.2 | Mohamad Asmail Certificate of Author | 85 |
| 13.3 | Robyn Christian Certificate of Author | 86 |

Tables

| | | |
|-------------|---|----|
| Table 3.1. | Hector Property Mining Claim Description and Status..... | 11 |
| Table 3.2. | Hector Property Exploration Permit, Status and Legacy Claims..... | 15 |
| Table 5.1. | Hector Property MDI Mineral Occurrences..... | 21 |
| Table 5.2. | Hector Property AMIS Historic Work Sites and Features | 22 |
| Table 5.3. | Hector Property MNDM Assessment Work Summary | 24 |
| Table 7.1. | 2017 Soil Sample Geochemistry Summary Statistics..... | 42 |
| Table 7.2. | 2018 Soil Sample Geochemistry Summary Statistics..... | 42 |
| Table 7.3. | 2018 Anomalous Rock Sample Results | 51 |
| Table 7.4. | 2018 Rock Sample Geochemistry Summary Statistics | 51 |
| Table 7.5. | 2018 Diamond Drill Hole Details..... | 61 |
| Table 7.6. | 2018 Diamond Drill Hole Significant Intercepts | 63 |
| Table 9.1. | Summary of 2017 and 2018 Hector Property Exploration Expenditures | 78 |
| Table 11.1. | Proposed 2019 Hector Property Exploration Budget..... | 80 |

Figures

| | | |
|-------------|---|----|
| Figure 2.1. | Hector Property General Location..... | 8 |
| Figure 3.1. | Hector Property Regional Location | 10 |
| Figure 3.2. | Hector Property Mining Claims..... | 16 |
| Figure 5.1. | Hector Property Historical Work | 27 |
| Figure 6.1. | Regional Geology..... | 34 |
| Figure 6.2. | Simplified Stratigraphic Column of the Cobalt Area (Kerrich et al. 1986) with Thicknesses from Jambor (1971a)..... | 36 |
| Figure 6.3. | Hector Property Local Geology | 38 |
| Figure 6.4. | Simplified Exploration Model for Regionally Distributed Polymetallic Vein Mineralization in the Cobalt Embayment (Potter and Taylor, 2010) | 40 |
| Figure 7.1. | 2017 B Horizon Soil Sample Locations | 43 |
| Figure 7.2. | 2017 B Horizon Soil Geochemistry for Cobalt (Co) | 44 |

| | |
|--|----|
| Figure 7.3. 2017 B Horizon Soil Geochemistry for Copper (Cu)..... | 45 |
| Figure 7.4. 2017 B Horizon Soil Geochemistry for Silver (Ag)..... | 46 |
| Figure 7.5. 2018 Ah Horizon Soil Sample Locations | 47 |
| Figure 7.6. 2018 Ah Horizon Soil Geochemistry for Cobalt (Co) | 48 |
| Figure 7.7. 2018 Ah Horizon Soil Geochemistry for Copper (Cu)..... | 49 |
| Figure 7.8. 2018 Ah Horizon Soil Geochemistry for Silver (Ag)..... | 50 |
| Figure 7.9. 2018 Rock Sample Locations..... | 52 |
| Figure 7.10. 2018 Rock Geochemistry for Cobalt (Co)..... | 53 |
| Figure 7.11. 2018 Rock Geochemistry for Copper (Cu) | 54 |
| Figure 7.12. 2018 Rock Geochemistry for Silver (Ag) | 55 |
| Figure 7.1. 2018 Ground Magnetic Survey Residual Magnetic Intensity (RMI) | 59 |
| Figure 7.2. 2018 Ground Magnetic Survey Residual Magnetic Intensity First Vertical Derivative (RMI 1VD) | 60 |
| Figure 7.3. 2018 Diamond Drill Hole Locations | 62 |
| Figure 7.4. Drill Cross Section 18HC01 and 18HC02..... | 64 |
| Figure 7.5. Drill Cross Section 18HC03 and 18HC04..... | 65 |
| Figure 7.6. Drill Cross Section 18HC05, 18HC06 and 18HC07 | 67 |
| Figure 7.7. Drill Cross Section 18HC08, 18HC09 and 18HC10 | 68 |
| Figure 8.1. QA/QC Analytical Standards (Co and Cu)..... | 74 |
| Figure 8.2. QA/QC Blank Samples (Co and Cu) | 75 |
| Figure 8.3. QA/QC Quartered Core Duplicate Samples (Co and Cu)..... | 76 |
| Figure 8.4. QA/QC Prep and Pulp Duplicate Samples (Co and Cu)..... | 77 |

Appendices

| | |
|---|-----|
| Appendix 1. 2017 and 2018 Personnel and Exploration Expenditures..... | 87 |
| Appendix 2. Sample Descriptions and Drill Logs..... | 128 |
| Appendix 3. Analytical Results and Laboratory Certificates | 160 |

1 Summary

This Assessment Report (the “Report”) on the Hector Property (the “Property”) has been prepared for Cruz Cobalt Corp. (“Cruz Cobalt”) by APEX Geoscience Ltd. (“APEX”). The Hector Property comprises 126 contiguous mining claims covering an area of 2,243 hectares (ha), and is located within the Cobalt Embayment of the historic Cobalt Mining Camp, Coleman and Gillies Limit Townships, Larder Lake Mining Division, Timiskaming District, Ontario, Canada. The Property is approximately 500 kilometres (km) north of Toronto, 150 km north of North Bay, and 6 km southwest of the town of Cobalt, Ontario. Cruz Cobalt acquired the project in August 2016 under a share purchase agreement with Cobalt Locaters Inc. and currently holds 100% ownership of the 126 mining claims, which are active and in good standing.

In 2018, APEX was retained by Cruz Cobalt as consultants to complete an exploration program at the Hector Property comprising a ground geophysical survey, a soil and rock geochemical survey and an exploration diamond drilling program. This Report presents the results of the 2018 work and summarizes the results of a soil geochemical survey that was completed at the Property in 2017 by Jean Marc Gaudreau.

Since the first discovery of cobalt in 1903 by J. McKinley, E. Darragh and F. Larose during the building of the railroad into the farming area of New Liskeard, Ontario, the area has been known as the Cobalt Mining Camp, the most prolific cobalt – silver camp in North America for decades. The total estimated production is over 19 million pounds of cobalt and over 450 million ounces of silver. Recent increasing demand for cobalt has renewed interest in exploration in this historic mining camp.

Historically, the Property has been explored since the initial discovery of silver and cobalt in the area with several geophysical, geochemical, prospecting and drilling programs. Several mineral occurrences were identified, and artisanal mining during the 1920s and 1930s produced multiple shafts, pits and trenches, such as the Hector Silver Mine shaft and the James Dolan Property, which each produced approximately 5 tons of cobalt with grades up to 1.7% cobalt. Other underexplored mineral occurrences include the Williamson, Brewster, Kevin Lake, Villa and South Keora occurrences. The South Keora occurrence returned grades up to 12-15% cobalt and 1000 oz/ton silver.

The regional geologic framework comprises the Archean basement (metavolcanics and metasedimentary rocks) that are intruded by synvolcanic to post-tectonic Archean plutonic rocks. These are unconformably overlain by Paleoproterozoic rocks of the Huronian Supergroup, which formed two successor basins, the “Porcupine-type” and “Timiskaming-type” basins. These rocks form the Cobalt Embayment, a north-trending graben interpreted to reflect the setting of a paleo basin in a continental rift system. Paleoproterozoic mafic dyke swarms, the Metachewan, the Nipissing diabase, the Sudbury and the Abitibi dykes, have intruded both Archean and Paleoproterozoic rocks. Within the Cobalt mining camp, the Nipissing diabase is spatially associated with cobalt – silver mineralization. Known historical cobalt – silver deposits are hosted proximal to

the Huronian – Archean unconformity and within and/or adjacent to the Nipissing diabase contacts.

Locally, the Property is largely intruded by the Nipissing diabase. The intrusion of the diabase may have acted as a heat source forming a large-scale hydrothermal system with metal-bearing, polymetallic fluids infiltrating the regional unconformity and fault structures, forming rich-polymetallic veins with a copper, cobalt, arsenic, and silver mineral assemblage. On a regional scale, the unconformable contact of the Paleoproterozoic Huronian supergroup with the diabase has significant potential for mineralization; however, metal-rich veins are only observed in fractures, joints and localized fault networks at the Property.

Exploration at the Hector Property during 2017 and 2018 comprised ground geophysics, soil and rock geochemical sampling, and diamond drilling. Jean Marc Gaudreau collected 428 soil geochemical samples between October 25th and November 3rd, 2017. The following year, APEX completed an exploration program in three phases between July 24th and December 19th, 2018: (Phase 1) a ground magnetometer geophysical survey from July 25th to August 2nd and a rock/soil geochemical survey from July 31st to August 10th, 2018; (Phase 2) follow up rock sampling on October 2nd and 3rd, 2018; and (Phase 3) a diamond drilling program from October 29th to December 19th, 2018. The total cost to complete the 2017 and 2018 exploration programs was \$337,200.93.

Geophysical results defined local structural features and magnetic anomalies that may have exploration potential. The ground magnetics over the northeastern section of the Hector Property identified two magnetic anomalies west of Bass Lake:

- 1) A strong, arcuate, NNW-trending magnetic high anomaly at the center of the Nipissing diabase. The anomaly is most pronounced near the lower contact of the Nipissing diabase to the southeast and covers the historical Hector Silver Mine shaft (Hector Anomaly) and Gilles East
- 2) A smaller NNW-trending anomaly to the west, proximal to the top of the Nipissing sill and covering the northern part of the Gillies West anomaly

These anomalies may represent stronger magnetic phases of the diabase complex that features linear, NW/SE-trending magnetic highs interrupted by NW/SE magnetic lows that are interpreted as structural jointing and/or localized offsets (faults).

The 2017 soil campaign targeted the Nipissing diabase over the northeastern block of the Hector Property. The survey defined several NW/SE-trending geochemical anomalies:

- 1) Strong cobalt anomalies at Gilles West, at the west shoreline of Bass Lake and proximal to the historical Hector Silver Mine shaft
- 2) A moderate copper anomaly at Gilles East
- 3) Scattered NW/SE-trending silver anomalies within the survey area

The 2018 soil campaign also defined several anomalous metal values including:

- 1) Strong cobalt anomalies at the Hector, Gillies East and Gilles West anomalies, with values greater than 20 ppm Co, 25 ppm Co and 98 ppm Co, respectively
- 2) Strong copper anomalies at Gillies East, north of Gillies East and at Gillies West
- 3) Strong silver anomalies at Gillies East, north of Gillies East and Gillies West

Collectively, the 2017 and 2018 soil geochemical surveys broadly coincide and define:

- 1) Strong cobalt anomalies over Hector and Gilles West
- 2) Moderate copper anomalies over Gilles East and north of Gillies East
- 3) Strong silver anomalies at Gillies West and north of Gillies East

The 2017 and 2018 soil results correlate with strong positive magnetic anomalies over the historical Hector Silver Mine shaft, Gillies East and Gilles West anomalies. Rock geochemistry confirms mineralization at all geophysical and soil anomalies within the Property, and returned significant values of cobalt (2.02%), silver (13.1 g/t) and copper (0.107 %) at Gilles East. The 2017 and 2018 soil and rock anomalies broadly trend NW-SE, possibly related to narrow alteration halos striking NW-SE associated with localized structures and mineralized carbonate-chlorite-silica-potassium veins within the diabase. These structures act as conduits for mineralized fluids.

Diamond drilling focused on the 2017 and 2018 cobalt anomalies, targeting networks of mineralized veins at and/or near historical trenches and pits. Of the 10 diamond drill holes completed, four holes (394.7 m) were drilled at the Hector Anomaly, intersecting mineralization in an upper and lower zone. Six holes were drilled at the Gilles East 1 (263.7 m) and Gilles East 2 (184.5 m) anomalies. Drill results returned values up to 310 ppm cobalt at the Hector Anomaly, and up to 1430 copper and 1.3 ppm silver at Gilles East 2. Anomalous cobalt and copper values are associated with potassic \pm carbonate \pm chlorite \pm silica \pm erythrite alteration and or veining \pm malachite staining with pyrite-chalcopryrite-cobalt arsenate sulphides.

Results to date indicate that further work is warranted at the Hector Property. Detailed geological mapping and geochemical surveys should be completed, focusing on the unconformable contacts of the Archean and Paleoproterozoic country rocks with the Nipissing diabase, previously identified geochemical and geophysical anomalies, and along strike of historical mineral occurrences. Geophysical and geochemical surveys should also be completed at the underexplored South Keora occurrence. Follow-up exploration drilling could be completed should any high-priority targets be identified.

For 2019, APEX recommends a 30-day exploration program comprising geological mapping, ground magnetics, and rock and soil geochemical surveys. The program could be completed by 4 APEX personnel at a total estimated cost of \$113,025.

2 Introduction

This Assessment Report (the “Report”) is written for the Hector Property (the “Property”), also known as the Gillies Property, on behalf of Cruz Cobalt Corp. (“Cruz Cobalt”). The Property is comprised of 126 mining claims covering an area of 2,243 hectares (ha) and is located within the Coleman and Gillies Limit Townships, Larder Lake Mining Division, Timiskaming District, Ontario, Canada, approximately 500 kilometres (km) north of Toronto, and 6 km southwest of Cobalt, Ontario (Figure 2.1). Cruz Cobalt acquired the Property in August 2016 under a share purchase agreement with Cobalt Locaters Inc. and currently holds 100% ownership for the 126 mining claims, which are active and in good standing.

APEX Geoscience Ltd. (“APEX”) was retained by Cruz Cobalt during 2018 as consultants to execute an exploration program and complete an assessment report specific to the Hector Property. This Report presents the results of a 2017 soil geochemical survey and the 2018 exploration program covering the northeast corner of the Hector claim block.

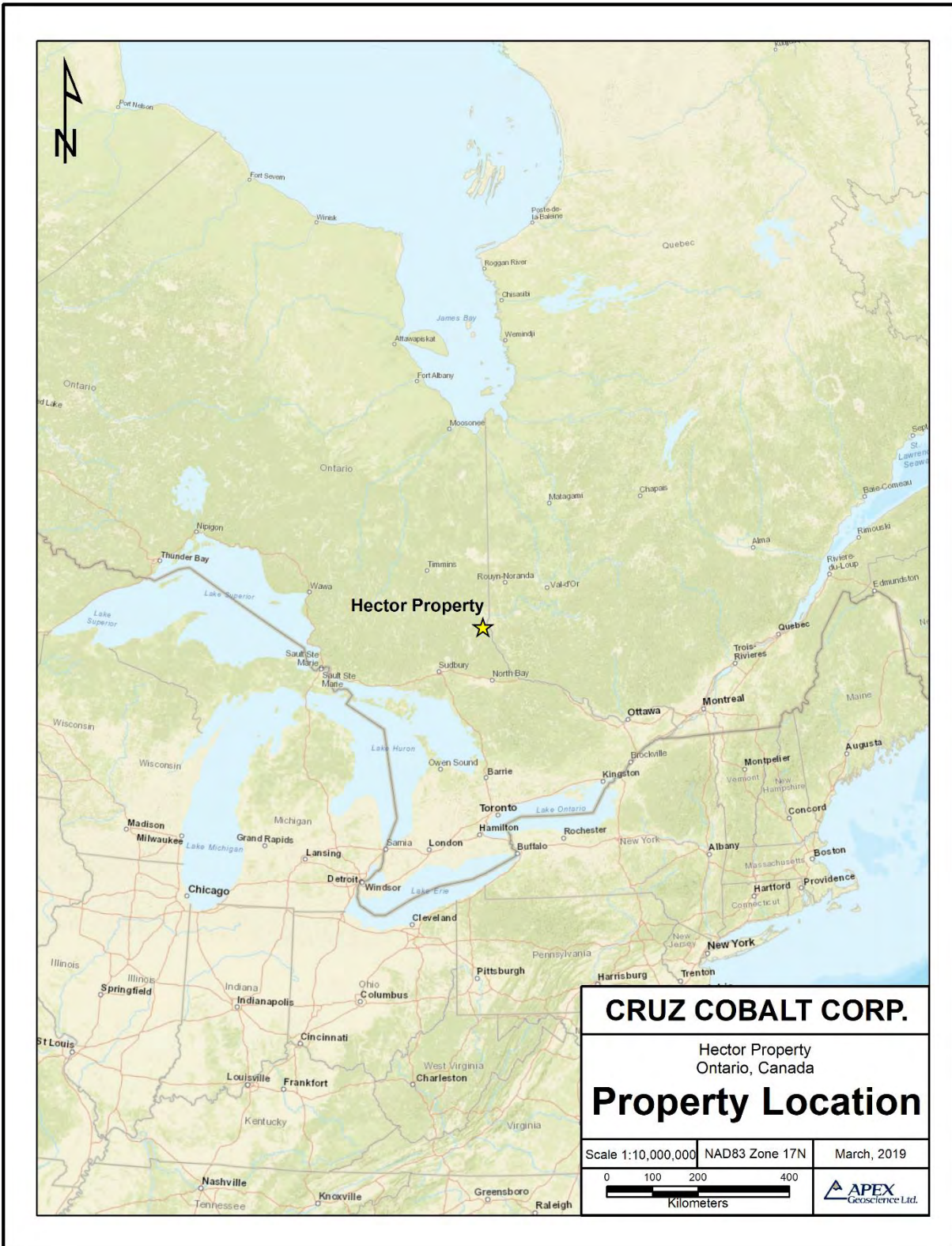
The 2017 soil geochemical survey was completed by Jean Marc Gaudreau, between October 25th and November 3rd, 2017. A total of 428 soil samples were collected from the northeast corner of the Hector claim block. The 2018 exploration program comprised a 23 line-km ground magnetometer survey, soil and rock geochemical sampling and diamond drilling. A total of 203 soil and 43 rock samples were collected, and 10 drill holes were completed, totaling 843 m. The 2018 program was completed in three phases between July 24th and December 19th, 2018. The total cost to complete the 2017 and 2018 exploration programs was \$337,200.93.

Mr. Kristopher Raffle, B.Sc., P.Geo., Principal of APEX, Mr. Mo Asmail, M.Sc., Project Geologist of APEX, and Ms. Robyn Christian, B.Sc., G.I.T., Geologist of APEX, are the authors of this report. Mr. Raffle supervised the 2018 exploration program and visited the Property with Mr. Asmail, on October 2nd and October 3rd, 2018. Mr. Asmail was on site as the Project Geologist for the duration of the diamond drilling phase.

The authors, in writing this report, use sources of information as listed in the references. The Report is a compilation of proprietary and publicly available information as well as information provided by Jean Marc Gaudreau and APEX exploration work. Government publications were prepared by qualified persons holding post-secondary geology, or related university degree(s) and are therefore deemed to be accurate. For those reports that were written by others, whom are not qualified persons, the information in those reports is assumed to be accurate, based on a data review and property visits conducted by the authors; however, they are not the basis for this report.

Unless otherwise stated, all units used in this report are metric, all dollar amounts (\$) are in Canadian currency (CAD), and all coordinates are referenced to the North American Datum (NAD) 1983, Universal Transverse Mercator (UTM) Zone 17 North.

Figure 2.1. Hector Property General Location



3 Property Description and Location

3.1 Description and Location

The Hector Property is located approximately 500 km north of Toronto, 150 km north of North Bay and 6 km southwest of the town of Cobalt, located southeast of the intersection between local highways 11 and 11B (Figure 3.1). The town of Cobalt is in northeastern Ontario, Canada, approximately 6 km and a 15-minute drive south of Temiskaming Shores, immediately west of the Ontario-Quebec border. The approximate location in UTM coordinates is 595,000 Easting, 5,245,000 Northing, NAD 1983, Zone 17.

The Property comprises 126 unpatented mining claims covering an area of approximately 2,243 ha (Table 3.1; Figure 3.2). The claims are 100% owned by Cruz Cobalt. The Hector Property is located in the Coleman and Gillies Limit Townships, Timiskaming District, Ontario, Canada. It is situated in the Cobalt Embayment of the historic Cobalt Mining Camp, Larder Lake Mining Division, within the 1:50,000 scale National Topographic System (NTS) Map Sheet 031M05.

3.2 Regulatory Framework

Prior to February 26, 2018, the 126 mining claims were previously held under a series of 12 legacy claims (Table 3.2). On February 26, 2018, the Ontario Ministry of Northern Development and Mines (MNDM) converted all previously existing recorded ground or map staked mining claims (legacy claims) and transformed them into one or more cell claims or boundary claims on the provincial grid. Mineral claims in Ontario are now acquired and managed within the online Mining Lands Administration System (MLAS). Individual unpatented mining claims are now referred to as a Boundary Cell Mining Claim when two or more owners hold interest in a cell, or a Single Cell Mining Claim when one owner holds 100% interest in a cell (referred to collectively as “mining claims” within this report). Annual assessment work requirements for Boundary Cell and Single Cell mining claims are \$200 and \$400 per claim, respectively. The Hector Property comprised 82 single cell and 44 boundary cell mining claims, and is subject to annual assessment work requirements of \$41,600.00.

Ontario’s *Mining Act* (R.S.O. 1990, Chapter M. 14) is the provincial legislation that governs and regulates prospecting, mineral exploration, mine development and rehabilitation. The purpose of the Act is to encourage prospecting, online mining claim registration and exploration for the development of mineral resources, in a manner consistent with the recognition and affirmation of existing Aboriginal and treaty rights in Section 35 of the *Constitution Act*, 1982.

Before undertaking certain early exploration activities, an exploration plan or permit must be submitted, and notification provided to any surface rights owner(s). Information on surface rights owners is on file as paper copies, with data obtained from the regional Land Registry Office in Haileybury.

Figure 3.1. Hector Property Regional Location

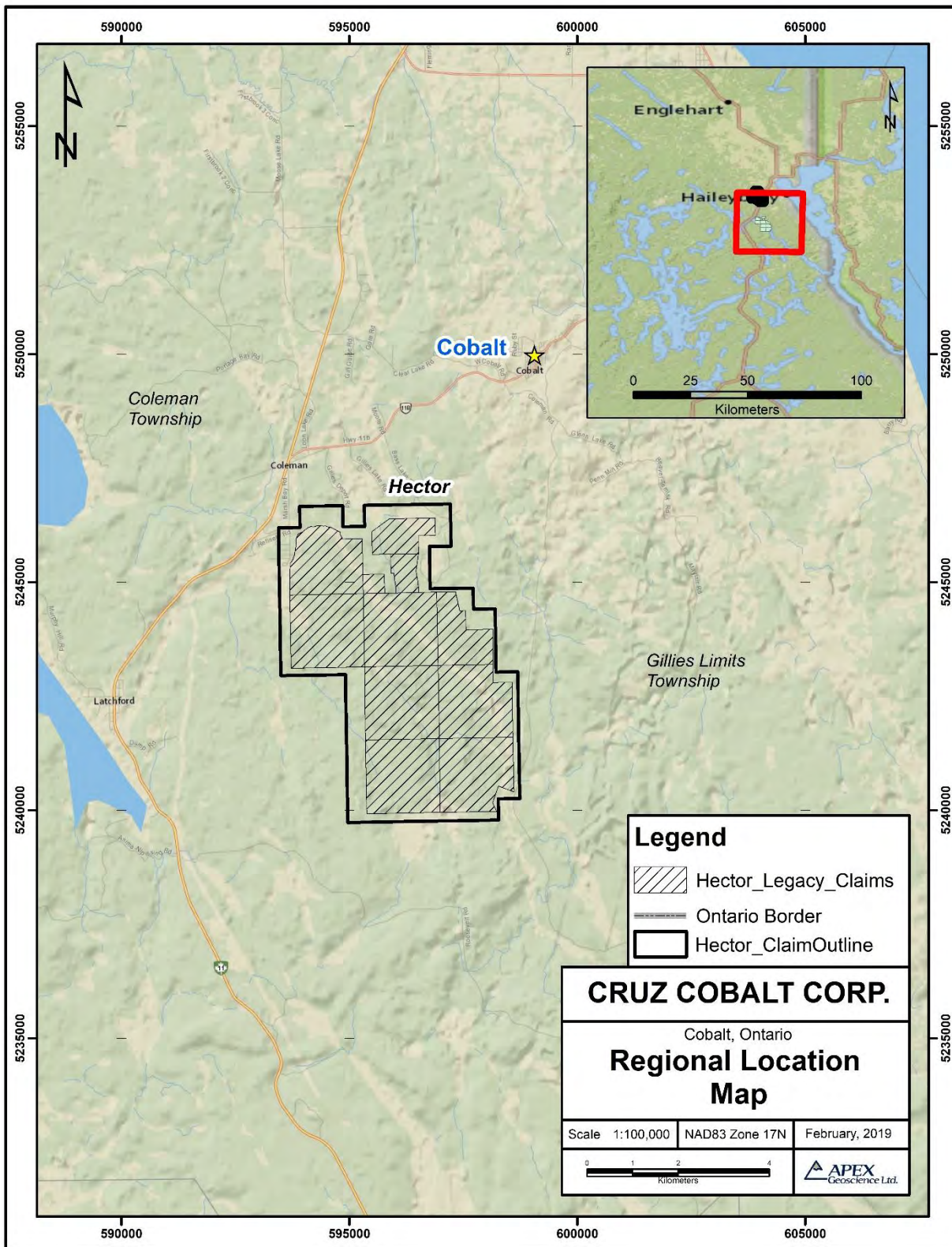


Table 3.1. Hector Property Mining Claim Description and Status

| Mining Claim | Legacy Claim ID | Township | Tenure Type | Anniversary Date | Tenure Holder (%) |
|--------------|---------------------|---------------------------|----------------------------|------------------|-------------------------|
| 102671 | 4279602 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 102672 | 4279602 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 102673 | 4279602 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 102946 | 4279620 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 102947 | 4279620 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 106206 | 4276370, 4276371 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 110483 | 4276370 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 117984 | 4279602 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 118231 | 4276374 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 118299 | 4276374, 4276376 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 118300 | 4276371, 4276374 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 118301 | 4276374 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 118346 | 4279619 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 119515 | 4276376 | COLEMAN | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 121214 | 4276378 | COLEMAN, GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 121215 | 4276378 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 122686 | 4276369 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 125027 | 4279602 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 126362 | 4276374, 4276376 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 128384 | 4276375, 4276376 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 134773 | 4276371 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 136283 | 4276370 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 136284 | 4276370 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 142333 | 4276370 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 142334 | 4276370 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 150733 | 4276370, 4276371 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |

2018 Assessment Report on the Hector Property

| Mining Claim | Legacy Claim ID | Township | Tenure Type | Anniversary Date | Tenure Holder (%) |
|--------------|---------------------------------|---------------------------|----------------------------|------------------|-------------------------|
| 153024 | 4279602 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 154325 | 4276374 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 156338 | 4276376 | COLEMAN, GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 156339 | 4276376 | COLEMAN, GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 162417 | 4276376 | COLEMAN, GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 162418 | 4276376 | COLEMAN, GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 165777 | 4276378 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 165778 | 4276378 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 169658 | 4279602 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 170914 | 4279619, 4279620 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 170964 | 4276374 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 171004 | 4279619 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 173145 | 4276374 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 173189 | 4279619 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 175779 | 4276376 | COLEMAN, GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 178922 | 4270920 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-07-19 | (100) Cruz Cobalt Corp. |
| 178923 | 4270920 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-07-19 | (100) Cruz Cobalt Corp. |
| 178924 | 4270920 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-07-19 | (100) Cruz Cobalt Corp. |
| 179200 | 4276378 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 180941 | 4276370 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 182454 | 4276369, 4279602 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 182455 | 4276369, 4279602 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 186181 | 4276369, 4276370 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 186182 | 4276369 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 189160 | 4276374 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 196998 | 4276369, 4276370, 4279602 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |

2018 Assessment Report on the Hector Property

| Mining Claim | Legacy Claim ID | Township | Tenure Type | Anniversary Date | Tenure Holder (%) |
|--------------|---|---------------------------|----------------------------|------------------|-------------------------|
| 198879 | 4276369, 4276370 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 198880 | 4276369, 4276370 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 198881 | 4276369 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 206902 | 4276374 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 206955 | 4279619 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 206956 | 4276370 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 209185 | 4276375 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 215409 | 4276369 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 215410 | 4276369 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 215976 | 4276371 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 215977 | 4276371 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 215978 | 4276371 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 218349 | 4276369, 4279602 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 218350 | 4279602 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 219120 | 4279620 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 219121 | 4279620 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 219122 | 4279619, 4279620 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 221697 | 4276376 | COLEMAN | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 225794 | 4279602 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 227068 | 4276371 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 227119 | 4276371, 4276374, 4276375, 4276376 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 227169 | 4279619 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 227170 | 4276370 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 229169 | 4276376 | COLEMAN, GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 229170 | 4276376 | COLEMAN | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 233050 | 4276378 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |

2018 Assessment Report on the Hector Property

| Mining Claim | Legacy Claim ID | Township | Tenure Type | Anniversary Date | Tenure Holder (%) |
|--------------|---------------------------------|---------------------------|----------------------------|------------------|-------------------------|
| 233975 | 4276369 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 234033 | 4276371, 4276375 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 253491 | 4276369, 4276370 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 253572 | 4276370, 4276371 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 253676 | 4270920 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-07-19 | (100) Cruz Cobalt Corp. |
| 255721 | 4276370 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 260417 | 4276378 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 265569 | 4279602 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 266313 | 4276370, 4276371, 4279619 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 266889 | 4279619 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 273809 | 4276370 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 274283 | 4279620 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 274385 | 4279619 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 280513 | 4276378 | COLEMAN, GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 281998 | 4276369 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 281999 | 4276369 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 282000 | 4276369 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 282050 | 4276371 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 282584 | 4276371 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 286376 | 4276371 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 286377 | 4276371 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 286423 | 4276370, 4276371, 4276374 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 289115 | 4276378 | COLEMAN, GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 290178 | 4270920 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-07-19 | (100) Cruz Cobalt Corp. |
| 290631 | 4276371 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 293733 | 4276374, 4276376 | COLEMAN, GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |

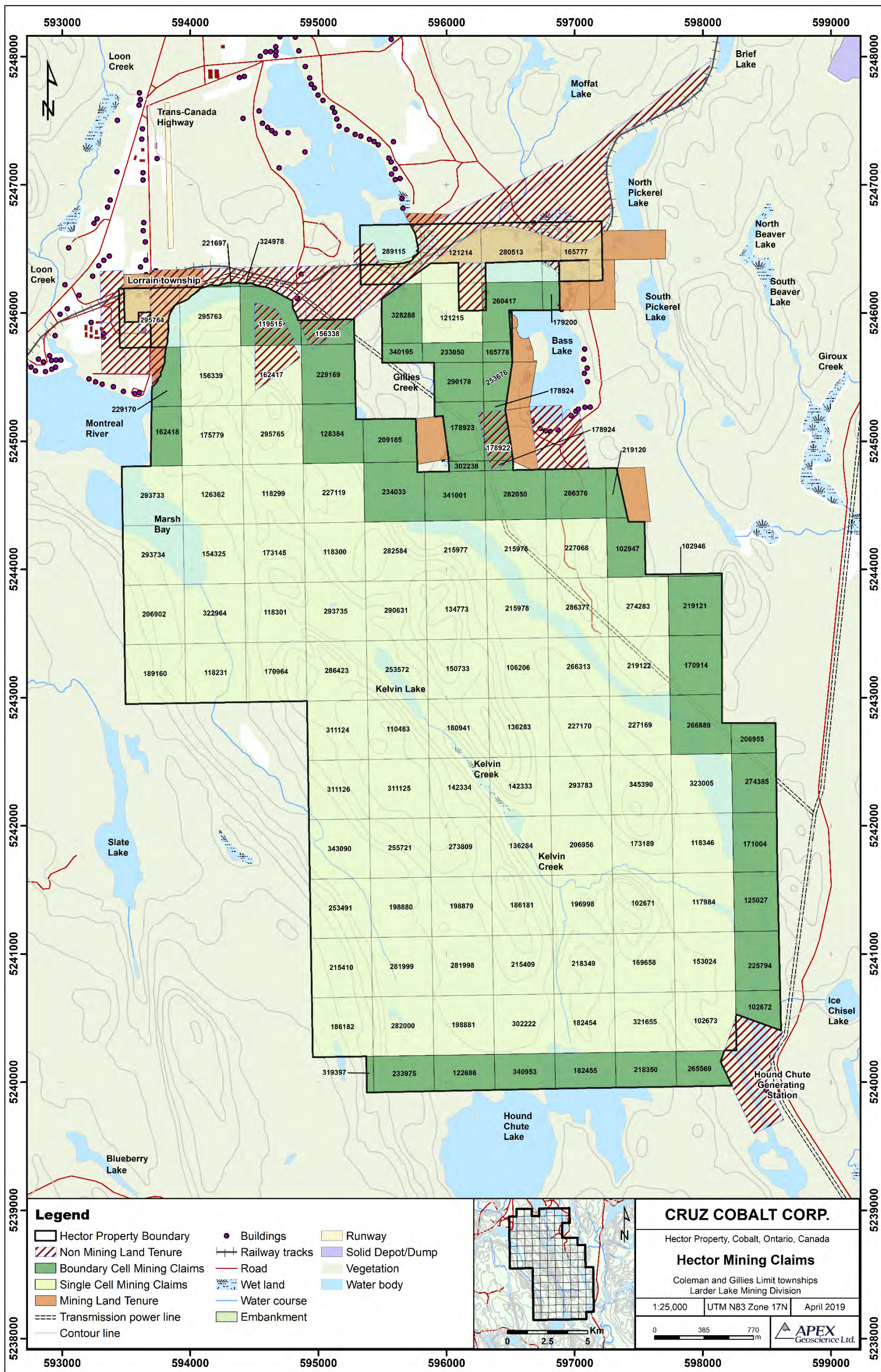
2018 Assessment Report on the Hector Property

| Mining Claim | Legacy Claim ID | Township | Tenure Type | Anniversary Date | Tenure Holder (%) |
|--------------|---------------------|---------------------------|----------------------------|------------------|-------------------------|
| 293734 | 4276374 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 293735 | 4276371, 4276374 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 293783 | 4276370 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 295763 | 4276376 | COLEMAN | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 295764 | 4276376 | COLEMAN | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 295765 | 4276376 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 302222 | 4276369 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 302238 | 4270920 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-07-19 | (100) Cruz Cobalt Corp. |
| 311124 | 4276370 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 311125 | 4276370 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 311126 | 4276370 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 319397 | 4276369 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 321655 | 4279602 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 322964 | 4276374 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 323005 | 4279619 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 324978 | 4276376 | COLEMAN | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 328288 | 4276378 | COLEMAN, GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 340195 | 4276378 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 340953 | 4276369 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 341001 | 4276371 | GILLIES LIMIT | Boundary Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 343090 | 4276370 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |
| 345390 | 4279619 | GILLIES LIMIT | Single Cell Mining Claim | 2020-09-26 | (100) Cruz Cobalt Corp. |

Table 3.2. Hector Property Exploration Permit, Status and Legacy Claims

| Property | Exploration Permit # | Issue Date | Expiry Date | Legacy Claims |
|----------|----------------------|-------------|-------------|--|
| Hector | PR-17-11139 | Sep 5, 2017 | Sep 5, 2020 | 4270920, 4275172*, 4276369, 4276370, 4279371, 4276374, 4276375, 4276376, 4276378, 4279602, 4279619, 4279620 *not included in permit |

Figure 3.2. Hector Property Mining Claims



Aboriginal communities potentially affected by activities proposed in an exploration plan are notified by the Ministry of Energy, Northern Development and Mines (ENDM) and have an opportunity to provide feedback before the proposed activities can be carried out. No issues have been raised by nearby aboriginal communities.

Cruz currently has an exploration permit (Permit # PR-17-11139; Table 3.2) in place issued on September 5, 2017 and valid until September 5, 2020. The permit allows for the completion of limited electrical geophysical surveys, line cutting, mechanized striping, and construction of 6 to 10 diamond drill pads. Planned activities detailed in the approved permit application cover the majority of prospective areas on the Property including Bass Lake, Kelvin Lake, and South Keora shaft areas.

Surface rights owners must also be notified when applying for a permit. Notice of Intent for exploration was provided to the surface rights owners associated with the Hector Property; including two separate Property owners in the Bass Lake area, and a single owner in the Gillies Depot area of the Montreal River. This notification included a complete Notice of Intent to Submit an Exploration Permit Application (Notice of Intent), a copy of a proposed Exploration Permit Application, and a map showing the location of the proposed exploration activities. No exploration work has been completed or planned for any of these areas. As of the effective date of the Report, the only work requiring a permit that has been completed on the Property was the 2018 diamond drilling of 10 drill holes in the Bass Lake area.

4 Accessibility, Climate, Local Resources, Infrastructure and Physiography

4.1 Accessibility

The Hector Property is located within the Coleman and Gillies Limit townships, Larder Lake Mining Division, Timiskaming District, northeastern Ontario. The claims are located between the towns of Cobalt and Latchford, south of the Trans-Canada Highway 11 and 11B, approximately 12 kilometers (km) west of the Ontario-Quebec provincial border. The Property is accessible by a network of concession roads and tertiary routes, paved or otherwise, which afford excellent access to the northeastern mining claims. The northeastern claims can be accessed via Bass Lake road off Highway 11B, the southern claims east of the Montreal River can be accessed via Silverfields road, and the southern mining claims west of the Montreal River can be accessed from Roosevelt Forest road, south of Latchford.

The town of Cobalt (population ~1,100) is located approximately 6 km northeast of the Hector Property. The closest major centre, the town of Temiskaming Shores with a population of nearly 9,920 (Statistics Canada, 2016), is located about 20 km northeast of the Property along the Trans-Canada Highway 11. This town was created by the amalgamation of the towns of New Liskeard, Haileybury and Dymond in 2004, towns that are still often referred to interchangeably. Temiskaming Shores provides amenities such as health care, accommodations, water and power infrastructure, rail, bus and taxi services, service contractors and large retail stores.

4.2 Site Topography, Elevation and Vegetation

The physiography is typical of the Precambrian Shield in northeastern Ontario, with rocky rolling bedrock hills, locally steep ledges and cliffs, separated by valleys filled with clay, glacial materials, swamps, streams, small kettle lakes and larger bodies of water. These features support a diversity of animal and bird species such as moose, beaver, black bear, wolf, heron, duck, geese and the common loon.

Elevations at the Property vary from 300 to 360 metres above mean sea level (AMSL). Notable landmarks within the Property include Bass and Gillies lakes to the northeast, the Montreal River running along the central-southeastern portion of the Property, Kelvin Lake west of the Montreal River, Marsh Bay at the northwestern portion of the Property and the Hound Chute Lake at the southern end of the Property.

Vegetation includes trees such as black and white spruce, jack pine, balsam poplar, white birch and balsam fir.

4.3 Climate

The area experiences four distinct seasons. Spring and autumn comprise a mix of warm sunny days and cool nights. Summers are warm, with dry air and average temperatures from 10 into the mid-20 degree Celsius (C) range. Winter temperatures average

temperatures from -25 to -5 degrees C, but high winds and high humidity are rare. Average annual snowfall totals 294 cm, and average total rainfall 590 mm.

The operating season can continue year-round but typical periods to avoid are the spring melt and the establishment of ice during the early winter months.

4.4 Local Resources and Infrastructure

Temiskaming Shores provides a variety of necessary amenities, such as bus and rail access, service contractors, large retailers, power and water infrastructure, and hospital services. The major regional mining centres of Sudbury and Timmins, Ontario lie 200 km to the north and southwest of the Property, respectively, and offer a host of exploration and mining related services including analytical laboratories and numerous diamond drill contractors.

5 History

Silver was first discovered at Cobalt in 1903 by J. McKinley, E. Darragh and F. Larose during the construction of the Temiskaming and Northern Ontario Railway. In 1904, a load of silver mineralized rock was shipped by rail, marking the beginning of the mining boom in Cobalt. Production of silver from the Cobalt camp reached its peak in 1911 when 31,507,792 ounces of silver were shipped (Goodwin, 1988). From 1904 and until 1989, the Cobalt mining camp produced 458,830,085 ounces silver, 19,392,037 pounds cobalt, 3,407,495 pounds nickel and 1,964,728 pounds copper (Guindon et al., 2015). The author has been unable to verify the Cobalt area historic production records.

Mineralization was later discovered in additional areas with similar geology within the Cobalt Embayment of the Southern Province, from Gowganda in the west to southeast of Cobalt. In the early 1920s, a decrease in the price of silver and exhaustion of the high-grade veins caused most of the mines to close. Between 1929 and 1950, small operations were undertaken in a number of mines. In the mid-1950s, the demand for cobalt increased and many mines reopened for a short time. An increase in the price of silver in 1960 brought new interest to the camp and 10 mines continued operation (Goodwin, 1988).

Renewed interest in the area in the 1980s-1990s resulted in further early exploration activities. Sporadic exploration in the form of geological, geochemical, and geophysical surveys were completed during the 2000's.

5.1 Exploration and Development Work Conducted by Previous Owners

Historic exploration within the Hector Property is summarized in the tables below including: documented mineral occurrences within the Ontario Mineral Deposit Inventory (MDI), a summary of known historic shafts, trenches, and prospect pits within the Ontario Abandoned Mines Information System (AMIS), historic assessment work reports from 1955 to present within the Ontario Assessment Files Database (OAFD). The spatial location of relevant historic exploration conducted in the Property referred to in Tables 5.1 to 5.3 is presented in Figure 5.1 below.

The exploration history of the present-day Hector Property is divided below geographically between mineral occurrences located in the Bass Lake and Marsh Bay area in the north; and prospects located within the southern and eastern parts of the Property near the Montreal River and extending west to Kelvin Lake.

Table 5.1. Hector Property MDI Mineral Occurrences

| Mineral Occurrence | Status | Mineral Deposit Inventory ID | Work History |
|---|--------------------------------------|------------------------------|---|
| James Dolan Property | Developed Prospect without Reserves | MDI31M05SE00127 | 1935: J. Dolan - approximately 5 tons of cobalt mineralized rock was mined from vein, grab samples returned up to 1.7% Co; |
| | | | 1961: Sterling Engineering – 1 drill hole, 125 ft. |
| Williamson | Occurrence | MDI31M05SE00113 | 1966: 93 ft shaft sunk on a calcite vein; 16 ft pit sunk on a 2nd vein; |
| | | | 2005-06: Cabo Mining Enterprises Corp drilled 5 holes, 1316ft, stripping; |
| | | | 2011: Outcrop Exploration Ltd, sampling, assays, magnetometer survey. Calcite vein is 7 inches wide, strikes SE; 2nd vein strikes N10W, dips 80E; both veins occur in Nipissing diabase. |
| Kelvin Lake | Past producing mine without reserves | MDI31M05SE00125 | 1909-1910: Waldman Silver Mines – 85 ft shaft; |
| | | | 1963: J Burke – a small pit 180 ft east of southwest corner of claim, cobalt-bearing aplitic vein striking N20E, 3 pits sunk on 3 aplite veins; |
| | | | 2006: Sears, Barry and Associates – 2 drill holes, 301 metres. |
| Brewster | Occurrence | MDI31M05SW00013 | 1909-1920: Waldman Silver mines – in production (no production data listed); |
| | | | 1947: Brewster Silver & Lead Syndicated Ltd – 30 ft shaft put down on calcite vein, 3 drill holes, 1129 ft. The calcite vein strikes N22E and dips vertically in Nipissing diabase. |
| South Keora | Past producing mine without reserves | MDI31M05SE00131 | 1927-1928: South Keora Mines Ltd – a shaft put down 109' and 13' of drifting done on the 100' level, an open cut 30' deep was made northeast of shaft; |
| | | | The South Keora Shaft- vein is 300' long and 4 inches wide, strikes N25E, dips 70W. A 2nd vein 100' long occurs east and parallel to shaft vein. Individual assays were reported up to 12-15% Cobalt, and >1,000 oz/ton Silver. |
| Hector Silver Mines, Block 4 (Occurs Outside Present Day Hector Property) | Developed Prospect without Reserves | MDI31M05SE00129 | Pre-1924-29: Hector Silver Mines – prospecting, shaft sinking, underground development. The shaft was sunk 500 ft. with 3 developed levels. About 5 tons of cobalt ore of unknown grade was produced from claim C-1101 (James Dolan), reported in 1924. (Sergiades, 1968) |
| | | | Circa 1930: J. Dolan – owner. |
| | | | 1962: St. Mary's Explorations Limited -magnetic and resistivity surveys. |
| | | | 1968: W. Gutzman – owner. |
| | | | 1969: EM survey. |
| Villa, P. | Occurrence | MDI31M05SE00115 | 2013: Outcrop Explorations Ltd. – ground magnetometer survey, beep mat survey. |
| | | | 1960: P. Villa – pits and trenches put down on a calcite vein that strikes NW. |

Table 5.2. Hector Property AMIS Historic Work Sites and Features

| Feature Description | UTM Zone | Northing | Easting | Official Name | Feature Condition |
|--|----------|----------|---------|---------------|---|
| EXPLORATION SHAFT - INCLINED SHAFT | 17 | 5244198 | 593708 | MARSH BAY | 1993 ASSESSMENT; ONE COMPARTMENT INCLINED SHAFT IN BEDROCK WITH A TIMBERED COLLAR. NO PROTECTION IS PRESENT. FEATURE IS CLEARLY VISIBLE. |
| EXPLORATION SHAFT - VERTICAL SHAFT | 17 | 5241653 | 597493 | WILLIAMSON | 1993 ASSESSMENT; ONE COMPARTMENT SHAFT WITH VERTICAL SIDES IN OVERBURDEN WITH A TIMBER CRIBBED COLLAR. NO PROTECTION IS PRESENT. FEATURE IS CLEARLY VISIBLE. |
| TRENCH | 17 | 5241672 | 597463 | WILLIAMSON | 1993 ASSESSMENT; PIT IN BEDROCK WITH VERTICAL WALLS. NO PROTECTION IS PRESENT. FEATURE IS PARTIALLY HIDDEN. |
| SHAFT - 2 COMPARTMENT - VERTICAL SHAFT | 17 | 5245023 | 594018 | BREWSTER | 1993 ASSESSMENT; ONE COMPARTMENT SHAFT WITH VERTICAL SIDES IN OVERBURDEN WITH A TIMBER CRIBBED COLLAR. NO PROTECTION PRESENT. FEATURE IS PARTIALLY HIDDEN. REPORTED BY 1993 ASSESSMENT TO BE 8M DEEP. |
| SHAFT - 1 COMPARTMENT - VERTICAL SHAFT | 17 | 5245062 | 594113 | BREWSTER | 1993 ASSESSMENT; ONE COMPARTMENT SHAFT WITH VERTICAL SIDES IN BEDROCK WITH A TIMBERED COLLAR. NO PROTECTION PRESENT. FEATURE IS PARTIALLY HIDDEN. |
| WASTE ROCK DUMP | 17 | 5245023 | 594018 | BREWSTER | THIS FEATURE WAS NOT REPORTED BY THE YEAR 1993 SURVEY TEAM. |
| SHAFT - 2 COMPARTMENT - VERTICAL SHAFT | 17 | 5245278 | 596458 | HECTOR | 1993 ASSESSMENT; TWO COMPARTMENT SHAFT WITH VERTICAL SIDES IN BEDROCK WITH TIMBERED COLLAR. SURROUNDED BY A LUNDY TYPE FENCE TOPPED WITH THREE BARBED WIRE STRANDS IN GOOD CONDITION. |
| LATERAL WORKINGS | 17 | 5245278 | 596458 | HECTOR | PLANS INDICATE WORKINGS ON 18M, 46M, 76M AND 137M LEVELS. |
| STOPE TO SURFACE | 17 | 5245278 | 596483 | HECTOR | 1993 ASSESSMENT; STOPE, OPEN TO SURFACE WHICH IS UNSUPPORTED. SURROUNDED BY LUNDY TYPE FENCE TOPPED WITH THREE BARBED WIRE STANDS IN GOOD CONDITION. |
| HEAD FRAME | 17 | 5245277 | 596058 | HECTOR | 1993 ASSESSMENT; HEADFRAME CONSTRUCTED WITH A TIMBER FRAME AND WOOD CLADDING. FEATURE IS SCHEDULED TO BE REMOVED IN NOVEMBER 1993. 2000 NOTIFICATION; NOTICE TO PROPONENT STATING THE MINE HAZARDS LOCATED ON THIS SITE ARE A SHAFT AND OPEN STOPE. THIS FE... |

2018 Assessment Report on the Hector Property

| Feature Description | UTM Zone | Northing | Easting | Official Name | Feature Condition |
|--|----------|----------|---------|---------------------|--|
| SHAFT - 2 COMPARTMENT - VERTICAL SHAFT | 17 | 5243623 | 597888 | SOUTH KEORA | 1993 ASSESSMENT; TWO COMPARTMENT SHAFT WITH VERTICAL SIDES IN BEDROCK WITH A TIMBERED COLLAR. SURROUNDED BY A LUNDY TYPE FENCE TOPPED WITH THREE BARBED WIRE STRANDS IN GOOD CONDITION. |
| OPEN CUT | 17 | 5243632 | 597898 | SOUTH KEORA | 1993 ASSESSMENT; OPEN CUT WHICH IS UNSUPPORTED. SURROUNDED BY A LUNDY TYPE FENCE TOPPED WITH THREE BARBED WIRE STRANDS IN GOOD CONDITION. |
| LATERAL WORKINGS | 17 | 5243623 | 597888 | SOUTH KEORA | THIS FEATURE WAS NOT REPORTED BY THE YEAR 1993 SURVEY TEAM. |
| TRENCH | 17 | 5243228 | 597258 | G. L. CLAIM JS32 | 1993 ASSESSMENT; PIT IN BEDROCK WITH VERTICAL WALLS. NO PROTECTION PRESENT. FEATURE IS PARTIALLY HIDDEN. |
| TRENCH | 17 | 5243402 | 597313 | G. L. CLAIM JS32 | 1993 ASSESSMENT; PIT IN OVERBURDEN WITH SLOPED SIDES. |
| TRENCH | 17 | 5245468 | 596183 | G. L. CLAIM L105813 | 1993 ASSESSMENT; PIT IN BEDROCK WITH VERTICAL WALLS. NO PROTECTION PRESENT. FEATURE IS PARTIALLY HIDDEN. |
| TRENCH | 17 | 5245482 | 596173 | G. L. CLAIM L105813 | 1993 ASSESSMENT; PIT IN BEDROCK WITH VERTICAL WALLS. |
| EXPLORATION SHAFT - VERTICAL SHAFT | 17 | 5246043 | 595873 | DOLAN | 1993 ASSESSMENT; PROSPECT SHAFT WITH VERTICAL SIDES, IN BEDROCK WITH A TIMBERED COLLAR. SHAFT POSSIBLY CRIBBED WITH CONING/SLUMPING SHAFT COLLAR. WATER LEVEL 3M BELOW GRADE. NO PROTECTION IS PRESENT. FEATURE IS PARTIALLY HIDDEN. |
| TRENCH | 17 | 5246022 | 595978 | G. L. CLAIM A69 | 1993 ASSESSMENT; PIT IN BEDROCK WITH VERTICAL WALLS. NO PROTECTION IS PRESENT. FEATURE IS CLEARLY VISIBLE. |
| TRENCH | 17 | 5246048 | 595998 | G. L. CLAIM A69 | 1993 ASSESSMENT; PIT IN BEDROCK WITH VERTICAL WALLS. |
| TRENCH | 17 | 5245953 | 595588 | G. L. LEASE 728245 | 1993 ASSESSMENT; PIT IN BEDROCK WITH SLOPED SIDES. |
| TRENCH | 17 | 5245933 | 596118 | G. L. CLAIM A76 | 1993 ASSESSMENT; PIT IN OVERBURDEN WITH SLOPED SIDES. FEATURE IS PARTIALLY HIDDEN. |
| TRENCH | 17 | 5245902 | 596133 | G. L. CLAIM A77 | 1993 ASSESSMENT; PIT IN OVERBURDEN WITH SLOPED SIDES. |
| TRENCH | 17 | 5245883 | 596148 | G. L. CLAIM A77 | 1993 ASSESSMENT; PIT IN BEDROCK WITH SLOPED SIDES. NO PROTECTION PRESENT. FEATURE IS CLEARLY VISIBLE. |
| TRENCH | 17 | 5243568 | 598033 | AUDLEY GOLD MINES | 1993 ASSESSMENT; PIT IN BEDROCK WITH VERTICAL WALLS. NO PROTECTION PRESENT. FEATURE IS CLEARLY VISIBLE. |

2018 Assessment Report on the Hector Property

| Feature Description | UTM Zone | Northing | Easting | Official Name | Feature Condition |
|--|----------|----------|---------|--------------------|--|
| TRENCH | 17 | 5244942 | 593828 | BREWSTER | 1993 ASSESSMENT; PIT IN BEDROCK WITH VERTICAL WALLS. |
| TRENCH | 17 | 5244942 | 593838 | BREWSTER | 1993 ASSESSMENT; PIT IN BEDROCK WITH VERTICAL WALLS. |
| SHAFT - 1 COMPARTMENT - VERTICAL SHAFT | 17 | 5244933 | 593763 | BREWSTER | 1993 ASSESSMENT; ONE COMPARTMENT SHAFT WITH VERTICAL SIDES IN OVERBURDEN WITH A TIMBER CRIBBED COLLAR. NO PROTECTION PRESENT. FEATURE IS CLEARLY VISIBLE. WASTE ROCK PILE SUGGESTS A DEPTH OF <30M. |
| SHAFT - 2 COMPARTMENT - VERTICAL SHAFT | 17 | 5244952 | 593878 | BREWSTER | 1993 ASSESSMENT; TWO COMPARTMENT SHAFT WITH VERTICAL SIDES IN BEDROCK WITH A TIMBERED COLLAR. NO PROTECTION PRESENT. FEATURE IS CLEARLY VISIBLE. VERY LARGE MUCK PILE SUGGESTS A DEPTH IN EXCESS OF 50M OF UNDERGROUND WORKINGS. |
| TRENCH | 17 | 5243158 | 598113 | G. L. CLAIM T47559 | 1993 ASSESSMENT; PIT IN BEDROCK WITH VERTICAL WALLS. NO PROTECTION IS PRESENT. FEATURE IS PARTIALLY HIDDEN. |
| TRENCH | 17 | 5245958 | 595868 | G. L. CLAIM A75 | 1993 ASSESSMENT; PIT IN BEDROCK WITH VERTICAL WALLS. NO PROTECTION PRESENT. FEATURE IS CLEARLY VISIBLE. |

Table 5.3. Hector Property MNDM Assessment Work Summary

| Assessment Report ID | Year | Performed For | Work Description | Work Performed |
|----------------------|------|-------------------------------------|---|---|
| 31M05SE0061 | 1955 | Quebec Metallurgical Industries Ltd | Diamond Drilling | 2 DDH: WN-8, N-9; 360', no assays reported |
| 31M05SE0057 | 1956 | Partridge Canadian Exploration Ltd | Diamond Drilling | 3 DDH: 525' total, no assays reported, drill hole locations not in Ontario Drill Hole Database, only geological logs available in assessment report. |
| 31M05SE0085 | 1960 | R Gareau | Geological Survey / Mapping | Regional and Detail Bedrock Mapping, 189 man-days, no samples reported. East of the Montreal River in the vicinity of the South Keora and Newton prospects. |
| 31M05SE0062 | 1961 | Sterling Engineering | Diamond Drilling | 1 DDH: 125', no assays reported; drill hole location not in Ontario Drill Hole Database, Assessment Report outline is in the vicinity of the James Dolan occurrence; geological log available. |
| 31M05SE0084 | 1962 | St Marys Exploration Ltd | Compilation and Interpretation - Geology, Magnetic / Magnetometer Survey, Resistivity | Ground Resistivity survey (5.98 line-miles); Magnetic/Magnetometer Survey (6.82 line-miles). North of the Montreal River, immediately south of the Gilbert mineral occurrence. Three conductive zones were identified within magnetic lows. |

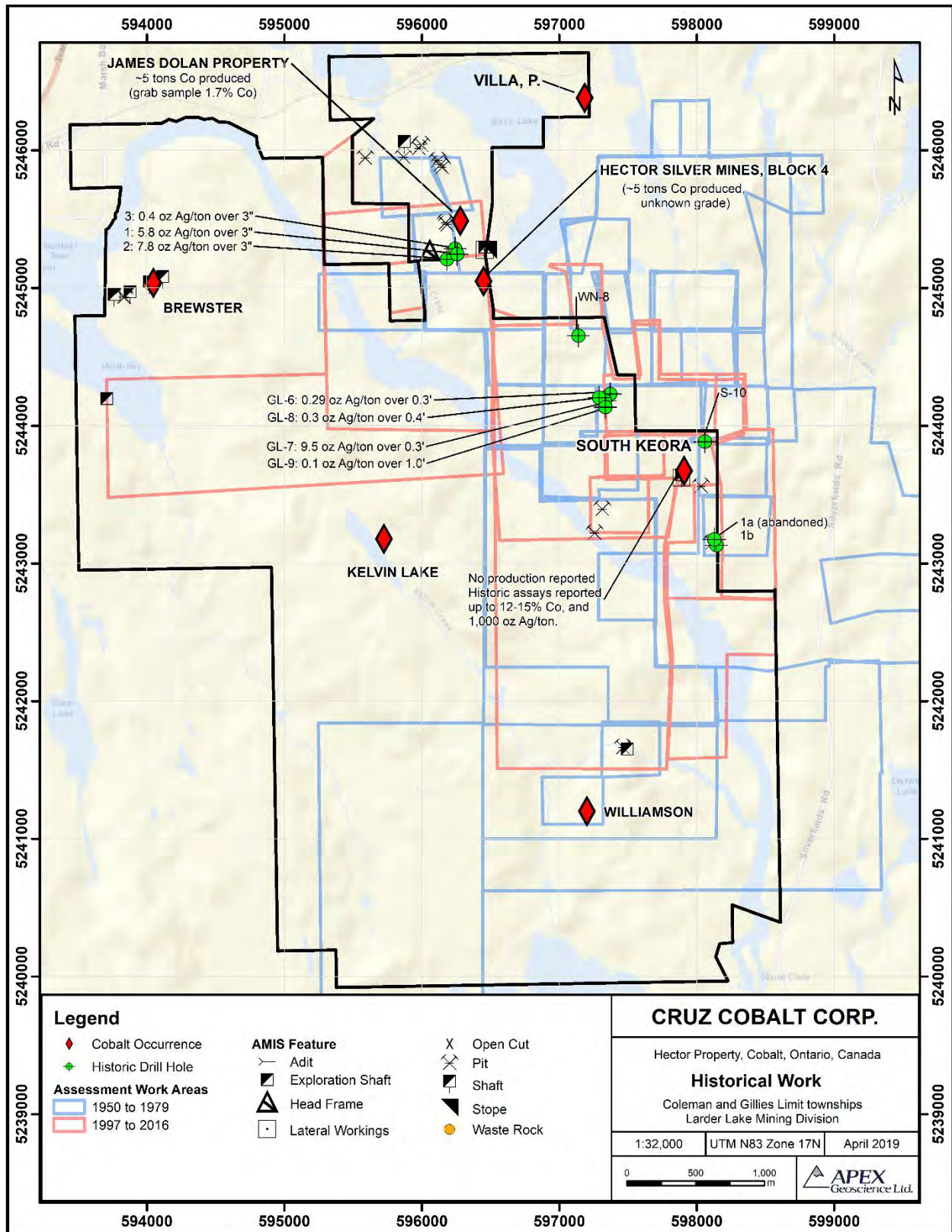
2018 Assessment Report on the Hector Property

| Assessment Report ID | Year | Performed For | Work Description | Work Performed |
|----------------------|------|---|--|---|
| 31M05SE0092 | 1965 | Silver Tower Mines Ltd | Geological Survey / Mapping | Detail Bedrock Mapping, 13 man-days, no samples reported. Southwestern corner of the current property outlies, immediately northwest of Hound Chute Lake (southwest of the Williamson occurrence). |
| 31M05SE0050 | 1966 | Unknown | Diamond Drilling | 5 DDH, 1525', assays reported s: drill hole locations not in Ontario Drill Hole Database, Assessment Report outline is in the vicinity of the Williamson mineral occurrence; only geological logs available in assessment report. |
| 31M05SE0093 | 1967 | Ragged Chutes Silver Mines Ltd | Geochemical, Geological Survey / Mapping | Bedrock Mapping, 89 sample Soil Survey (Ni, Co) southeast of the Williamson mineral occurrence; up to 24ppm Co, up to 32ppm Ni. |
| 31M05SE0091 | 1969 | T Brown | Electromagnetic Very Low Frequency | Ground EM-VLF survey (5.44 line-miles), located north of the Montreal River and south of the Gilbert and Hector occurrences. |
| 31M05SE0027 | 1970 | J Neilson | Assaying and Analyses, Diamond Drilling | 3 DDH, 116' total; 1: 5.8 oz Ag/ton over 3"; 2: 7.8 oz Ag/ton over 3"; 3: 0.4 oz Ag/ton over 3" |
| 31M05SE0033 | 1970 | W Niemi | Diamond Drilling | 1 DDH: G-17-1, 338', no assays reported. Southeast of the South Keora occurrence. |
| 31M05SE0077 | 1971 | Keevil Mining Group, Silverfields Mining Corp | Geochemical | Soil Survey (1130 samples), Co, Ag; up to 20ppm Co |
| 31M05SE0075 | 1972 | A Johnson | Geochemical, Diamond Drilling | 4 DDH: GL-6 to GL-9; 1,271' total ; GL-6: 0.29 oz Ag/ton over 0.3'; GL-7: 9.5 oz Ag/ton over 0.3'; GL-8: 0.3 oz Ag/ton over 0.4'; GL-9: 0.1 oz Ag/ton over 1.0'; Soil Survey (367 Humus), Ag, Co, Mn; |
| 31M05SE0076 | 1974 | Teck Corporation Ltd | Electromagnetic, Geological Survey / Mapping, Magnetic / Magnetometer Survey, Self-Potential | Ground EM (4.3 line-mi), Mag (10.2 line-mi), Self Potential (8.7 line-mi) and Geological Mapping |
| 31M05SE0074 | 1976 | Teck Mining Group Ltd | Geochemical | Soil Survey (361 samples); Cu, Pb, Zn, Ni, Mn, Ag, Au |
| 31M05SE0070 | 1979 | K Home | Diamond Drilling | 1 DDH, 199' |
| 31M05SE0072 | 1997 | Wabana Exploration Inc | Assaying and Analyses, Electromagnetic Very Low Frequency, Gradiometric, Magnetic / Magnetometer Survey, Open Cutting, | Rock samples (45 samples), Ground Mag/Magnetometer/EM-VLF survey (26 line-km), Stripping (50 hrs), Prospecting (6 days) |

2018 Assessment Report on the Hector Property

| Assessment Report ID | Year | Performed For | Work Description | Work Performed |
|----------------------|------|------------------------------|--|--|
| | | | Overburden Stripping, Prospecting By Licence Holder | |
| 31M05SE2073 | 2004 | Cabo Mining Enterprises Corp | Geochemical, Geological Survey / Mapping, Manual Labour | Soil Survey (26 samples, no anomalous values reported); Geological Mapping. South of the Montreal River, north of the Kelvin Lake occurrence. |
| 20000007349 | 2012 | Outcrop Explorations Ltd | Electromagnetic Very Low Frequency, Magnetic / Magnetometer Survey | VLF and Mag Survey (31.1-line km). Three distinct magnetic responses recorded. Area covers the South Keora occurrence. |
| 20000008012 | 2013 | Outcrop Explorations Ltd | Assaying and Analyses, Geochemical, Prospecting By Licence Holder | Rock and Soil samples (20 man days and 33 samples total) |
| 20000008004 | 2013 | Outcrop Explorations Ltd | Magnetic / Magnetometer Survey | Mag Survey (13 man days), non-grid, 427 readings, 100m lines, 12.5m point intervals. South of Bass Lake, north of the Montreal River in vicinity of historic Hector and Newton prospects. Two magnetic low anomalies identified. |
| 20000007892 | 2013 | Outcrop Exploration Ltd | Magnetic / Magnetometer Survey, Prospecting By Licence Holder | Prospecting and Mag Survey (2 man days) |
| 20000008176 | 2014 | Outcrop Exploration Ltd | Magnetic / Magnetometer Survey | Mag Survey, 288 readings, 50m line spacing, 12.5m stations |
| 20000008304 | 2014 | Outcrop Exploration Ltd | Assaying and Analyses, Prospecting By Licence Holder | 19 grab samples (up to 74ppm Co). East of the Montreal River, south of Bass Lake in the vicinity of the Newton and South Keora occurrences. |

Figure 5.1. Hector Property Historical Work



5.1.1 Bass Lake and Marsh Bay Areas

Waldman Silver Mines Ltd. was active between 1909 and 1920 near Marsh Bay at what later became known as Brewster Silver and Lead Syndicate Ltd. occurrence. At the Brewster occurrence, a northeast striking subvertical chalcopyrite-cobalt mineralized calcite (\pm quartz) vein occurs upon which a 30-foot (9 m) shaft was sunk. During 1947 three diamond drill holes totalling 344 m were completed by the Brewster Syndicate near the shaft but did not intersect significant mineralization (Thomson, 1960). AMIS data indicates the presence of four shafts, two surface trenches, and a waste rock pile distributed over an approximately 400 m northeast trend (Table 5.2). A distance of 800 m to the south at Marsh Bay shallowly south dipping 15 cm wide quartz veins containing pyrite-chalcopyrite mineralization exposed in a small shaft are documented (Thomson, 1960).

The historic Hector Silver Mines shaft is located at the southwest end of Bass Lake. The surrounding area was explored for silver-cobalt veins prior to 1924, the year shaft sinking began; however, silver-cobalt veins were reportedly worked only on the C-1243 and C-1101 claims covering the Hector Shaft and James Dolan occurrence 300 m to the northwest within the present-day Hector Property.

At Hector, a diabase-hosted, locally high-grade silver-cobalt vein is exposed at surface. The vein strikes approximately east, dips to the south; and is thought not to persist below the 60-foot (18 m) level of the mine. It is not known if mineralization continued below the base of the diabase sill intersected at a vertical depth of 480 feet (146 m), below which a 50 to 90 foot (15 to 27 m) thick succession of Coleman conglomerate occurs. The Hector shaft was developed to a depth of 500 feet (152 m) with levels at 60, 150, 250 and 490 feet (18, 46, 76, and 149 m). Based on historic plan maps it is likely that the western portions of the 18 m level extend into the present-day Hector Property claims (Thomson, 1960).

During the 1930's, James Dolan reportedly mined approximately 5 tons (4.5 tonnes) of cobalt mineralized rock from the James Dolan occurrence via a 15 foot (4.5 m) deep open cut (Thomson, 1960). Grab samples returned assays of "up to" 1.7% cobalt (Table 5.1, Wilson, 2017a). The near vertical vein reportedly strikes northeast and contained niccolite and native bismuth, in addition to cobalt-bearing minerals. Sterling Engineering later tested the James Dolan occurrence with a single 38 m inclined drill hole on a 310° azimuth. The drill hole intersected narrow clay gouge zones, calcite veining, and minor chalcopyrite mineralization; however, no assays were reported (Plaskett, 1961).

Prior to 1948, James Dolan put down several test pits west of Bass Lake. The trenched area corresponds to the area tested by 2018 Cruz drill holes 18HC08, 09 and 10. They were described as cobalt mineralized calcite (\pm quartz) veins associated with aplite dykes, in addition to silver mineralization at the southeast end of the vein trend; likely in close proximity to 2018 Cruz drill holes 18HC05, 06 and 07. On the west side of Gillies Creek, a west-northwest striking, steeply north dipping cobalt mineralized vein was traced over

60 m by shallow trenches (Thomson, 1960). The trenched areas correspond to what are presently referred to as the Gillies West occurrence.

Before 1960, a 60-foot (18 m) adit was driven along a northwest trending, steeply south dipping aplite-dyke hosting a cobalt-mineralized vein. The vein occurs on the west side of Gillies Creek within claim C-1107 located just outside the present-day Hector Property (Thomson, 1960; Figure 5.1). The earliest records of claim C-1107 is dated to 1924, with the most recent reference being to the Gilbert Interests Limited during 1968 (Wilson, 2017b).

During 1961, St Mary's Exploration Ltd. completed ground resistivity and magnetic geophysical surveys immediately south of the Gilbert Interests occurrence and Hector Shaft. The surveys outlined several north-northwest trending, short-strike length conductive anomalies (Burton, 1962).

J. Neilson, on behalf of the Nial Mining Syndicate drilled three short diamond drill holes along west and northwest azimuths located approximately 150 m west of the Hector Shaft and within the present-day Hector Property. Drill holes 1, 2 and 3 each intersected 7.6 cm (3 inch) pink aplite veins containing silver-bismuth-nickel mineralization that assayed 5.8, 7.8, and 0.4 ounces/ton (oz/t) silver, or 199, 267, and 14 grams-per-tonne (g/t) silver, respectively (Neilson, 1970).

5.1.2 Montreal River, and Kelvin Lake Areas

South Keora Mines Ltd. acquired the C-1220 claim in 1924 located along the eastern claim boundary of the Hector Property. The company commenced shaft sinking on a cobalt-bearing vein that was originally discovered in 1913; however, poor results led to suspension of activities by 1928. The shaft was driven to a depth of 33 m, and 43 m of drifting was completed to the northeast from the 30 m level. The northeast striking steeply northwest dipping 10 cm vein was mapped over a 100 m strike length on surface and returned select assays of 12 to 15% cobalt and 1,000 oz/t silver. The vein was tested via four shallow diamond drill holes (A-1 through 4) in 1951 by Audley Gold Mines Ltd. and did not return encouraging results.

K. Home completed a single 60 m drill hole targeting a 13 cm chalcopyrite mineralized aplite-calcite vein exposed in a shallow prospect pit located 550 m southeast of the South Keora shaft. The drill hole intersected a narrow aplite-calcite vein similar to the surface zone; however, no assays were reported (Home, 1979).

At a distance of 1 km northwest from the South Keora occurrence, just outside the present-day Hector Property, lies the T.J. Newton prospect. Shaft sinking occurred during 1927 by the Newton Limit Syndicate targeting a northwest striking subvertical vein traced by surface trenching over 30 m southeast of the shaft. The vein is up to 18 cm in width on surface and contains a small amount of cobalt mineralization within a quartz-calcite gangue. The vein was reportedly pinched to less than 1 cm in width at a depth of 15 m. A second shaft reportedly targeted a sub-parallel vein 75 m to the northeast. The shaft

extended to a depth of 48 m with 43 m of crosscut development on the 46 m level in addition to 11 m of crosscuts on the 15 m level completed later in 1956. A total of 9 diamond drill holes were completed in 1953 and 1955 by Quebec Metallurgical Industries Ltd. (QM-1 through 9) with holes 1 through 7 targeting the shaft vein, and 8 and 9 targeting a second occurrence 150 m northwest of the shaft. Drill hole QM-6 collared adjacent to the shaft reportedly intersected high grade silver which led to 1956 shaft dewatering and development on the 15 m level, though it was abandoned before reaching the drilled intercept (Thomson, 1960). No drill hole assays were reported.

Partridge Canadian Explorations Ltd. completed 8 diamond drill holes (P-1 through 8) along the Montreal River within their JS-32 claim located 600 m west of the South Keora shaft. The drilling targeted a northwest striking, steeply northeast dipping 1 m wide pyrite “band” originally discovered in 1907. The drilling intersected the pyrite band over a strike of 140 m and to a maximum vertical depth of 240 m. Assays for gold and silver returned only trace values (Thomson, 1960).

At a distance of 1.5 km to the west of the JS-32 occurrence, on the east shore of Kelvin Lake, three north-northeast trending cobalt mineralized veins hosted in aplite were tested by several small surface pits (Thomson, 1960).

At the Williamson occurrence, located 2 km southeast of Kelvin Lake, a 28 m vertical shaft and 5 m pit was put down on a narrow 18 cm, southeast striking calcite vein. A pit 45 m to the northwest centred on a narrow 2.5 cm chalcopyrite mineralized vein (Thomson, 1960). Approximately 550 m to the southwest, north-northwest striking, steeply west dipping, 5 to 10 cm quartz-calcite-aplite veins occur with one vein containing cobalt-nicolite mineralization. During 1965, L.J. Cunningham tested the Williamson occurrences via 465 m of diamond drilling in five holes. Drill hole W65-1 targeting the northeast showing have returned 10 g/t silver over 0.60 m at 61 m deep. Mineralization was hosted within sheared calcite veined Archean volcanic rocks that were intersected beneath the Nipissing diabase. Drill hole W65-3 drilled under the southwest showing, and intersected 8.6 g/t Ag over 0.6 m of mineralized diabase at 34 m deep (Cunningham, 1966).

Ragged Chutes Silver Mines Ltd. completed geologic mapping and a small 44 sample humus soil survey on the claims immediately south of the Williamson occurrence during 1967; however, the soils, analyzed for silver, cobalt or nickel, did not return anomalous values and no mineral occurrences were located (Fowler, 1967).

During 1971, Silverfields Mining Corp. Ltd., then owned by Teck Corporation Ltd. (Teck), completed a large humus soil geochemical survey at their Gillies Limit Property over a 2 x 2 km area east and south of Bass Lake. Samples were collected along a series of 60 m spaced north-south oriented gridlines at 30 m sample spacing. The majority of the grid occurred east of the present-day Hector Property. However, samples collected within the Property returned anomalous cobalt values of 35, 45 and 180 parts-per-million (ppm) over a 200 m distance 600 m south from the T.J Newton shaft, and 55 ppm cobalt along the westernmost survey line directly south of Bass Lake (Moore, 1971).

The following year Teck completed infill sampling of anomalies and surveying of newly acquired claims along the Montreal River immediately south of the Gilbert Interests occurrence, and 800 m south of the T.J. Newton prospect. Significant silver anomalies, with a peak value of 25 ppm silver, occur in the area south of the Gilbert Interests occurrence. Infill sampling south of the T.J. Newton shaft defined an approximately 100 x 100 m greater than 10 ppm silver anomaly. The anomaly was subsequently tested via four inclined diamond core holes totalling 387 m drilled along southwest and northeast azimuths (GL-6 through GL-9). All holes reportedly intersected carbonate stringers and veinlets, locally containing pyrite, chalcopyrite and galena mineralization. GL-7 returned the highest silver values of 9.51 oz/t (326 g/t) silver over 10 cm from 43 m downhole, results which were not replicated within flanking drill holes GL8 and GL-9 (Blecha, 1972).

During 1974, Teck acquired claims west of the Montreal River and completed geologic mapping, ground magnetic, electromagnetic (EM) and self-potential surveys (SP). The claims were underlain by Archean volcanic rocks, similar to the Gillies Limit claims east of the river. Magnetic surveys identified northwest trending lineaments; however, EM and SP surveys did not return significant anomalies (Lalonde and Neelands, 1974). The work was followed up in 1976 by a 360 B-horizon soil sample survey. Survey lines were oriented northeast-southwest at 100 m spacing with samples collected at 15 and 30 m intervals depending on the terrain. Soils were analyzed for copper, lead, zinc, nickel, manganese, silver and gold. The results defined an approximately 500 x 200 m, northwest oriented copper-lead-zinc geochemical anomaly (defined as greater than 35 ppm copper and lead, and 75 ppm zinc) centred 500 m southwest of the JS-32 occurrence (Neel and McLeod, 1976).

During 1997, Wabana Explorations Inc. completed a total of 26 line-km of magnetic and Very Low Frequency (VLF) EM surveys on their Montreal River claims covering much of the historic Teck Gillies Limit and Montreal River claim groups south of the T.J. Newton shaft and west of the Montreal River. Similar to the previous Teck survey results, the Wabana survey outlined northwest trending magnetic and VLF anomalies on the west side of the Montreal River. The survey also defined east-west trending magnetic and VLF anomalies in the area south of the T.J. Newton shaft that was drilled by Teck. Outcrop stripping of the historic JS-32 pyrite occurrence was also completed; however, no assay results were reported (Laronde, 1997).

During 2004, Cabo Mining Enterprises Corp. completed a 26-soil sample reconnaissance over a weak 1999 Ontario Geological Survey (OGS) airborne EM anomaly located on the south side of the Montreal River via two parallel north-south oriented survey lines. Gold values, up to 12 parts-per-billion (ppb), and poor nickel and copper values were associated with the anomaly. No further follow-up work was recommended (Sears, 2004).

Outcrop Explorations Ltd. completed 2012 ground magnetic and VLF-EM surveys again over the area of the historic Teck Gillies Limit claims covering the T.J Newton and South Keora shaft areas. Surveys were conducted along 100 m spaced east-west oriented lines at 12.5 m station spacing. Results identified several north-northwest magnetic lineaments

and a low east-west magnetic anomaly in the 1972 Teck drilled area. The VLF-EM data returned predominantly cultural anomalies (Ploeger, 2012).

During 2013, Outcrop Explorations Ltd. carried out a geophysical survey and rock and soil sampling. The company extended the magnetic survey grid northwest to Gillies Creek in the area south of the Bass Lake and east to the T.J. Newton shaft. While magnetic data does not appear to have been diurnally corrected, the results show a northwest trending magnetic lineament extension similar to the 2012 survey results to the south. The results were likely a reflect of the underlying Archean volcanic sequence (Kon, 2013a).

Thirteen rock grab samples from the historic T.J. Newton, South Keora, and JS-32 areas were collected. Sample BL-03 from South Keora returned 13 g/t silver, 0.15% copper, and 0.10% lead. Samples BL-06, 08, and BL-10 through BL-13 were collected from base metal mineralized Archean volcanic rocks located about 350 m southwest of the 1972 Teck drilled area. The samples returned anomalous values ranging from 0.028% to 0.35% lead, and 0.14% to 1.04% zinc. Soil samples collected included 10 samples from overburden-filled prospect pits in the area of Teck's Gillies Creek silver-cobalt soil anomalies and 10 samples collected at 25 m spacing over a 2012 magnetic low anomaly 400 m west of the Teck drilled area. The Gillies Creek base of prospect pit soils returned elevated (>10 ppm) copper-cobalt-lead-zinc values, while the magnetic low target soils were locally elevated with respect to lead and zinc (Kon, 2013b).

Additional rock sampling, totalling 19 samples, of the historic JS-32 occurrence was completed by Outcrop Explorations Ltd. during 2014 (Kon, 2014). Samples BL-14-05, 11, and 16 were collected over an approximately 200 m northwest trend. The samples were described as sheared and pyrite bearing, or quartz-pyrite vein material and have returned assays ranging from 1.0 to 5.5 g/t silver, 0.20% lead, and 0.0045 to 1.39% zinc.

5.2 Historical Production at the Hector Property

Approximately 4.5 tonnes of cobalt mineralized rock was reportedly produced from the James Dolan occurrence circa 1935. Grab samples are reported to have returned assays of "up to" 1.7% cobalt (Table 5.1 and Figure 5.1). During 2018, the James Dolan occurrence was subject to surface rock sampling and subsequent diamond drill testing by Cruz Cobalt and is described in Section 7 Exploration.

6 Geological Setting and Mineralization

6.1 Regional Geology

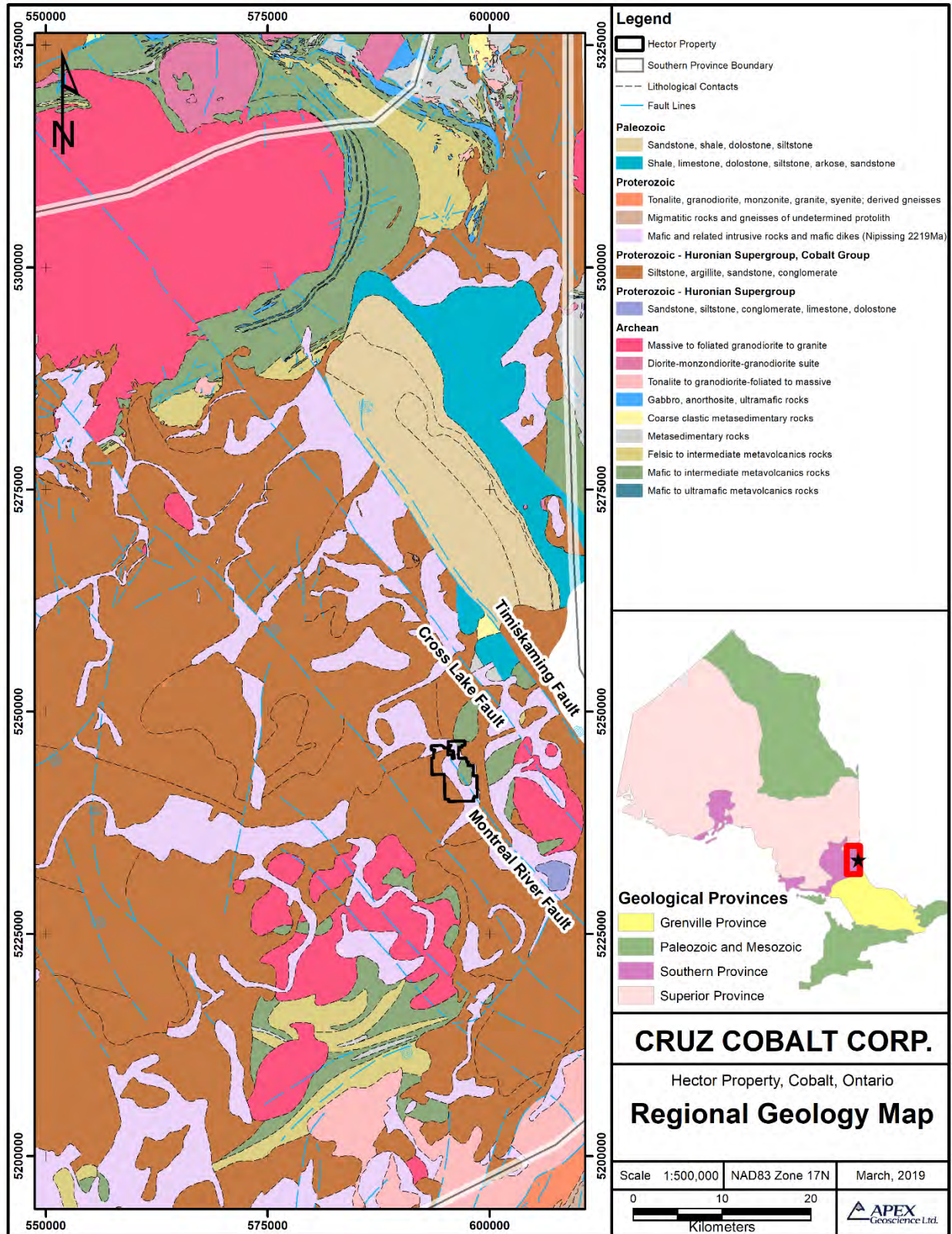
The Cobalt -Gowganda silver mining camp is located in the northeastern part of the Southern Province, proximal to the boundary of the Superior and Grenville provinces, also known as the Cobalt Embayment. This embayment extends for approximately 200 km from Gowganda in the northeast to southeast of Cobalt. Several mineral occurrences along the northern and eastern boundaries of the Cobalt Embayment is widely distinguished. Cobalt – silver mineralization in this camp is strongly associated late mafic dykes intruding Archean and Paleoproterozoic rocks. The regional geology map is presented in Figure 6.1.

6.1.1 Archean Basement

The oldest exposed rocks in northeastern Ontario are the Archean rocks of the Abitibi Greenstone Belt. These are comprised of metavolcanics and metasedimentary rocks that have been subdivided into a series of assemblages (Ayer et al. 2005): the Lower Pacaud Assemblage, the oldest supracrustal unit at 2747 – 2736 Ma; the Deloro Assemblage (2730 – 2724 Ma); the Stoughton Roquemaure Assemblage (2723 – 2720 Ma), the Kidd-Munro Assemblage (2719 – 2717 Ma); the Tisdale Assemblage (2710 – 2706 Ma); and the Black River Assemblage (2701 – 2696 Ma). Two types of successor basins exist in the belt: the 2690 – 2685 Ma early “Porcupine-type” basins and the late 2677 – 2670 Ma “Timiskaming-type” basins. The Timiskaming assemblage includes alluvial to fluvial conglomerates, sandstones, turbidites and alkalic to calc-alkalic volcanic rocks unconformably overlying metavolcanics and/or Porcupine assemblage units, which is dominated by wacke sequences and unconformably overlie metavolcanic and sedimentary rocks (Ayer et al. 2002).

The Archean basement is intruded by the 2745 – 2660 Ma plutonic rocks, comprised of synvolcanic felsic to ultramafic intrusions, syntectonic tonalite, granodiorite, diorite, feldspar-quartz porphyries to alkalic intrusions with mafic phases, and post-tectonic intrusions comprising granite and pegmatite (Ayer et al., 2002). Mafic dyke swarms also cut the Abitibi Greenstone Belt (Osmani, 1991). These include the north-trending, vertical to sub-vertical quartz diabase Matachewan dykes (2454 Ma), the radiating gabbroic swarm of the Nipissing Diabase (2219 Ma), the west to northwest-trending, vertical olivine tholeiites Sudbury dykes (1238 Ma), and the northeast-trending olivine gabbro to monzodiorite Abitibi dykes (1140 Ma).

Figure 6.1. Regional Geology



6.1.2 Proterozoic Huronian Supergroup

Paleoproterozoic rocks of the Huronian Supergroup unconformably overlie the Archean metavolcanic and metasedimentary rocks. These rocks were deposited in a north-trending graben, the Cobalt Embayment, a large (~10,000 km²), somewhat circular domain 120 km in diameter. The embayment is bounded by Archean rocks, except to the south where it is truncated by the Grenville Front tectonic zone and is interpreted as a continental rift system reflecting the original configuration of a paleo basin.

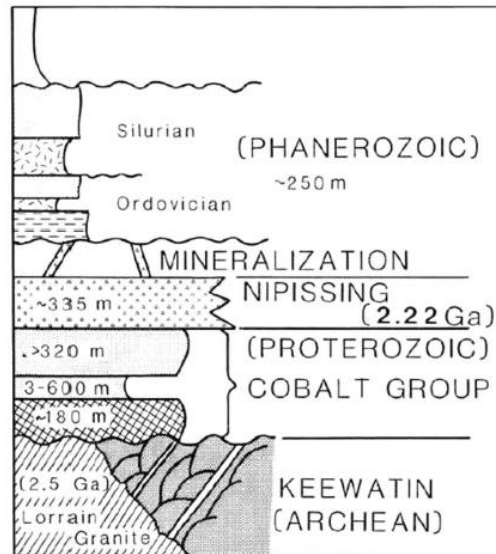
Four formations were deposited in the embayment, the Gowganda, Lorrain, Gordon Lake and River Bar forming the most upper sedimentary cycle of the Huronian Supergroup, collectively known as the Cobalt Group (Bennett et al. 1991). The Gowganda Formation is subdivided into the lower Coleman Member and the upper Firstbrook Member. The Coleman Member consists of clast and matrix-supported conglomerate and interpreted to be glacial or debris flow or turbidity currents. The upper Firstbrook Member is interpreted to be deposited in a delta environment consisting of pebble wacke, wacke, siltstone, mudstone and arenite. The Lorrain Formation which conformably overlies the Gowganda Formation, consists of arkose and quartz arenite and is interpreted to be deposited in a shallow marine or fluvial environment. The Huronian sedimentary rocks is unconformably overlain by rare Paleozoic sedimentary rocks made up of limestone, dolostone and sandstone, followed by Pleistocene and Quaternary sediments.

6.1.3 Proterozoic Nipissing Diabase Sills

Both Archean and Proterozoic rocks have been largely intruded by gabbroic rocks of the Nipissing Intrusive event (2219 Ma), forming regionally-distributed sills, dykes and sheets up to a few hundred meters thick (Bennett et al. 1991). The diabase is the most abundant and widespread igneous rocks intruding the Archean metavolcanics and Huronian sedimentary rocks and comprise a range of rock types from fine-grained border facies to coarser-grained inner-facies; the most common is pyroxene gabbro but olivine gabbro, hornblende gabbro, leucogabbro, granophyric gabbro, feldspathic pyroxenite, and late-stage granophyres are also common.

These are interpreted to originate from a radiating dike swarm related to a magmatic event located under the Labrador Trough (Ernst, 2007), which locally appears to be controlled by Archean and Huronian structures. In general, the sills are horizontal to shallowly dipping and form regionally basin and dome like undulations, and locally at times have been shown to follow pre-existing steep faults in the basement. Jambor (1971b) suggested a thickness of 300 – 355 m of the sill and up to 10 mm thick chill margins at the contacts with the intruded country rocks. A simplified stratigraphic column for the Cobalt area is presented below in Figure 6.2.

Figure 6.2. Simplified Stratigraphic Column of the Cobalt Area (Kerrich et al. 1986) with Thicknesses from Jambor (1971a)



6.1.4 Regional Structural Geology

Deformation within the Cobalt Embayment is dominated by three separate fault sets:

- 1) A major southeast-trending fault system is manifested by the Montreal River, Cross Lake, and Timiskaming Fault (from west to east). This regional-scale fault system is part of the Lake Timiskaming Structural Zone, a northwest-southeast trending graben structure that trends from the Grenville Front at the southern extent of the embayment northward well beyond the Cobalt area. Geological and geophysical evidence indicates that these major fault systems were probably initiated in the late Archean, prior to Huronian sedimentation, and were reactivated during and after Huronian sedimentation and intrusion of the Nipissing diabase (Andrews et al. 1986).
- 2) A second fault set trends northeast, resulting in offsets of the Nipissing diabase prior to silver mineralization (Thompson, 1964). These faults and the southeast-trending system are generally veined with carbonate and silicate minerals and exhibit no apparent control over the occurrence of the silver veins, as most are barren (Jambor, 1971a).
- 3) The third set of faults, trending east-southeast, are generally smaller, subvertical normal faults that show displacements of up to 7.5 m, and locally host silver veins (Wilson, 1986).

6.2 Property Geology

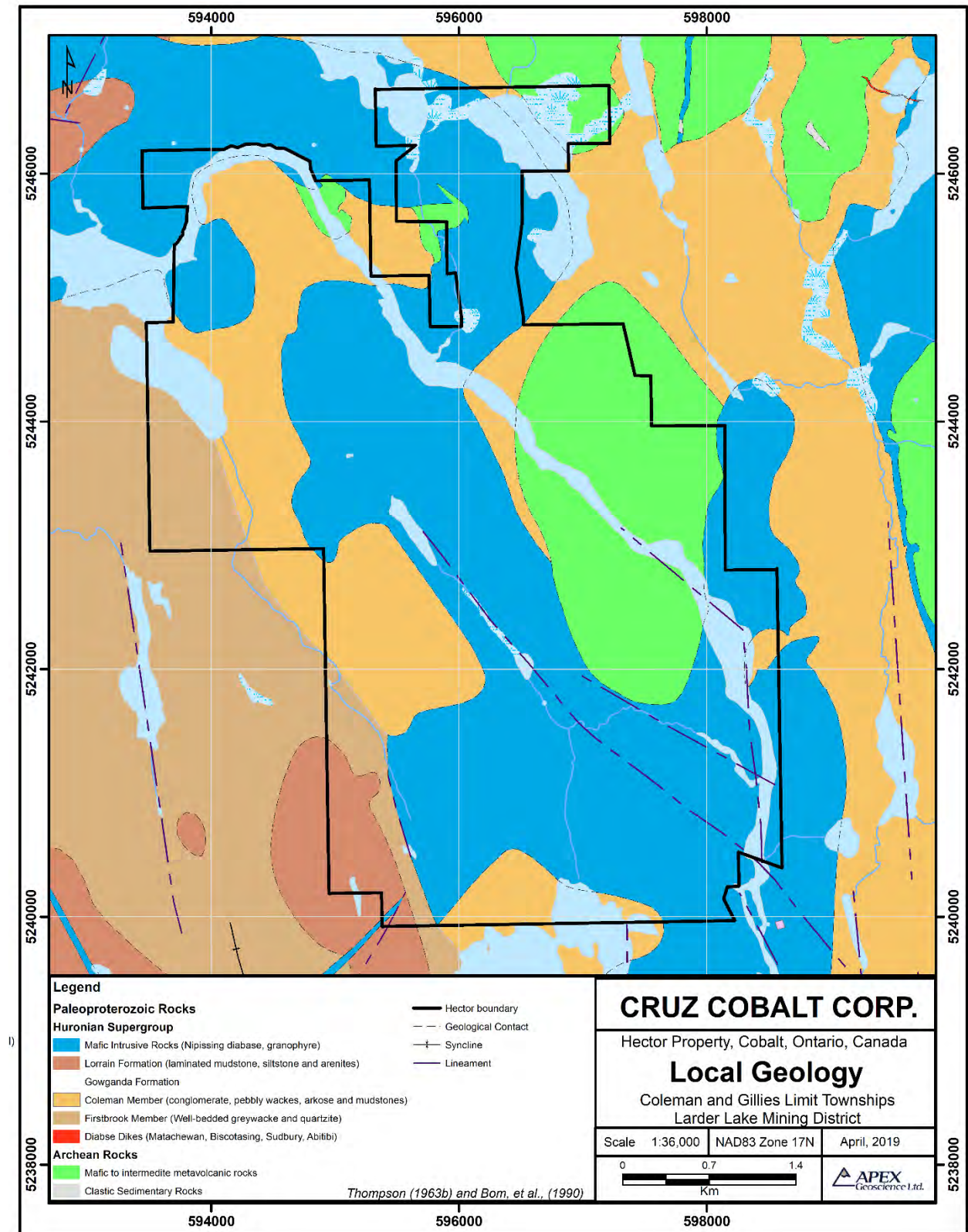
The Property area and surrounding was mapped over the course of several decades by various government geologists. The property geology is best represented by ODM Map 2051 covering the northern two-thirds of the Property (Thomson, 1963b); and ODM Map 2551 covering the southern third of the Property (Born et al., 1990). Work completed by Antediluvial Consulting Inc. during 2017 also provided geological observations and an up-to-date summary of the Property geology. The local property geology map is presented in Figure 6.3.

The Archean basement is comprised of mafic to intermediate metavolcanic rocks unconformably overlain by Paleoproterozoic rocks. The Archean rocks are mostly observed in the eastern section of the property with discrete outcrops between Bass Lake and March Bay to the north. These rocks appear to have been exposed by erosion and the lateral strike-slip movement of the Montreal River Regional Fault.

The Paleoproterozoic rocks underlie all remaining parts of the property and consist of sediments of the Huronian Supergroup and the Nipissing intrusive rocks. The local stratigraphy of the Huronian Supergroup consists of Gowganda and Lorrain formations of the Cobalt Group. The Gowganda Formation is subdivided into the lower Coleman Member, consisting of conglomerate, pebbly wackes, arkose and mudstones, and the upper Firstbrook Member, consisting of laminated mudstone, siltstone and arenites. West of the Montreal River. The sediments have a gentle dip to the west and considerably thickens towards Tran-Canada Highway 11. In the southeast and east, the sediments underlie the sill and is considerably more eroded than in the northern and the central western area of the Property.

The Nipissing diabase have intruded the Archean and Paleoproterozoic rocks and dips moderately to the west. It covers the central and the NE/NW portions of the Property. The diabase consists of quartz gabbro, vari-textured quartz gabbro, hypersthene gabbro and minor granophyre. Contact metamorphism have resulted in spotted chlorite and epidote alteration/veining near the margins with Cobalt Group country rocks. The thickness of the Nipissing diabase is variable and can be considerable to the north of the Property, from 150 to 300 metres, which had most of the historic exploration occurring at this area.

Figure 6.3. Hector Property Local Geology



6.3 Mineralization

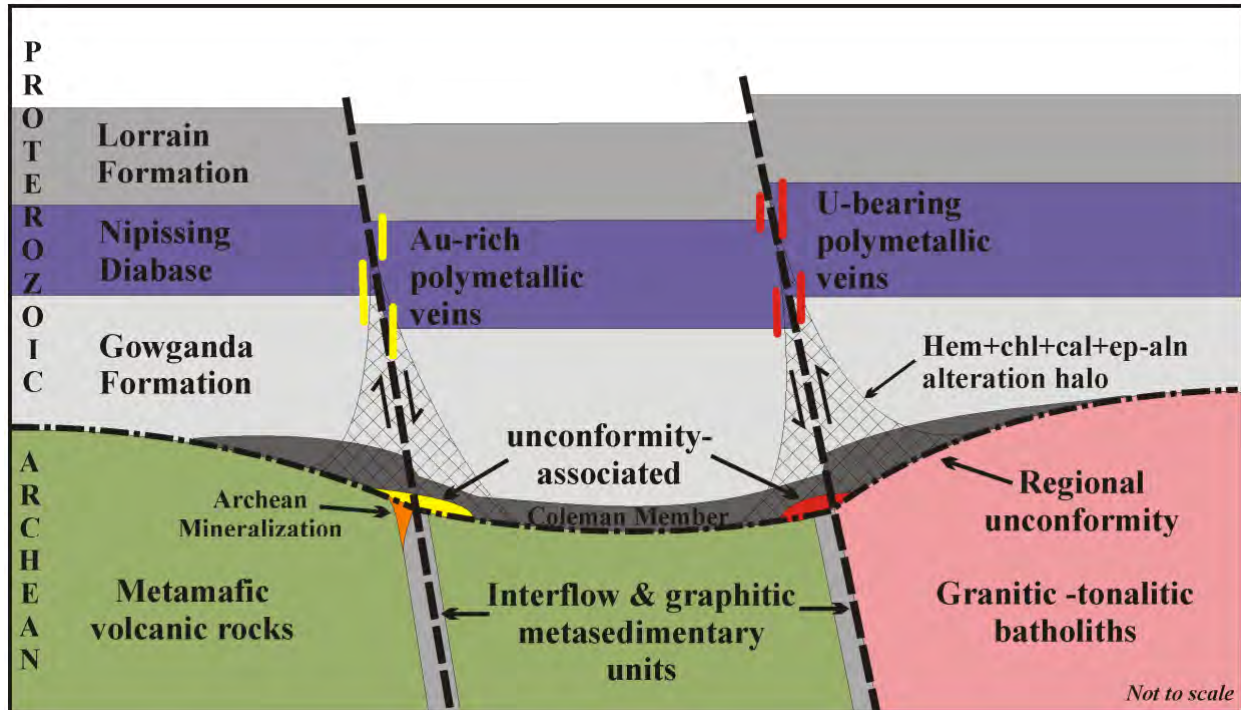
The Property is located within the historic Cobalt Mining Camp. Cobalt is well known for its association with silver mining, with cobalt seen as a by-product. The area has also been explored for gold, copper and diamonds. Typical silver-cobalt mineralization is found near the contact of the Archean and the Proterozoic Huronian Supergroup. (Joyce et al., 2012). The basement Archean and Proterozoic rocks are intruded by the Nipissing Diabase. Although there are different views of the mineralization process, the metal mineralization seems to be associated with the unconformable contact, and within 100 m of its upper and lower contacts. Most models of mineralization are related to structures and the intrusion of the Nipissing Diabase, which may have acted as a heat source and driving hydrothermal fluids and deposition of cobalt-silver minerals in shears, fractures and faults. The Cobalt Camp silver arsenite veins are not unique and are similar to other epigenetic, hypothermal (cobalt-nickel-silver-gold-bismuth) assemblages. (Kerrich et al., 1986; Joyce et al, 2012).

Recent discoveries of polymetallic mineralization in a geological setting akin to that of the historical Cobalt Camp silver-cobalt veins have demonstrated the potential of the Cobalt Embayment to host hydrothermal mineral deposits enriched in economic metals other than silver. This has prompted a re-evaluation of the metallogeny of this important Paleoproterozoic basin in northern Ontario (Potter and Taylor, 2010). The integration of field mapping, ore mineralogy, and petrography has resulted in the identification of observed similarities of the regionally distributed hydrothermal mineralization with the following main characteristics (extracted from Potter and Taylor, 2010):

- 1) Occurrence in steeply-dipping, discordant calcite-quartz vein systems hosted in Nipissing Diabase and adjacent Huronian metasedimentary rocks;
- 2) Spatial association with periodically reactivated, regional fault systems rooted in the Archean basement; and
- 3) Polymetallic, precious-metal-bearing (Cu, Co, Ni, Fe, As, Au, Ag, +/- U) ore assemblage. When fully developed, the regionally distributed polymetallic veins systems exhibit a common paragenetic sequence and internal zoning with:
 - a. Narrow silicate selvages (chlorite + quartz +/- epidote +/- K-feldspar +/- albite) with sporadic “early stage” sulphides (pyrite +/- chalcopyrite);
 - b. A transition to calcite gangue and precipitation of hematite followed by the “main-stage” polymetallic mineralization (chalcopyrite + pyrite + cobaltite + precious-metal minerals +/- pitchblende +/- Bi-bearing sulphides +/- galena);
 - c. “Late-stage” massive calcite +/- galena

A simplified exploration model for the genesis of regionally-distributed, polymetallic vein mineralization in the Cobalt Embayment is shown in Figure 6.4 below. The polymetallic veins are interpreted as a shallow, peripheral component of large-scale hydrothermal systems where flow was focussed along both the regional unconformity and reactivated faults that offset the unconformity.

Figure 6.4. Simplified Exploration Model for Regionally Distributed Polymetallic Vein Mineralization in the Cobalt Embayment (Potter and Taylor, 2010)



7 2017 and 2018 Exploration

In 2018, APEX Geoscience Ltd. (“APEX”) was retained by Cruz Cobalt as consultants to complete a soil and rock geochemical survey, a ground geophysical survey, and an exploration diamond drilling program at the Hector Property. This section presents the results of this work. In addition to the work completed by APEX during 2018, this section also summarizes the results of a soil geochemical survey that was completed in 2017 at the Hector Property by Jean Marc Gaudreau. A total of 428 soil samples were collected between October 25th and November 3rd, 2017.

The 2018 Hector Property exploration program was designed to evaluate and follow up on the 2017 survey and historical results, and to generate targets for future exploration. The 2018 exploration program was completed in three phases: (Phase 1) a soil (203 samples) and rock (31 samples) geochemical survey from July 31st to August 10th, 2018, and a 23 line-km ground magnetometer geophysical survey from July 25th to August 2nd; (Phase 2) follow up rock sampling (12 samples) on October 2nd and 3rd, 2018; and (Phase 3) a 10 hole (843 m) diamond drilling program from October 29th to December 19th, 2018. The 2018 geophysical and geochemical surveys were completed by APEX personnel. The drilling program was supervised by APEX personnel and executed by Vital Drilling Services of Sudbury, Ontario. Drill core logging and sampling was completed by APEX geological staff. Personnel involved with the program are listed in Appendix 1.

The total cost to complete the 2017 and 2018 exploration programs, including geophysical and geochemical surveys, rock prospecting, and diamond drilling with associated costs for supervision, wages, logistics (mobilization, travel, equipment rentals, supplies, accommodations, food), geochemical analyses, data processing, evaluation, interpretation, and reporting, was \$337,200.93 (Appendix 1).

7.1 2017 and 2018 Soil Geochemical Surveys

The 2017 soil geochemical survey was completed west of Bass Lake, covering an area containing historical shafts and pits. The survey grid covered an area of approximately 1.14 ha. Samples were collected along east-west or north-south oriented lines with a line spacing of 100 m and a sample spacing of 25 m. A total of 428 samples were collected from B horizon soils. Summary statistics for cobalt (Co), copper (Cu), silver (Ag), arsenic (As) and nickel (Ni) are presented in Table 7.1. Plan maps showing the 2017 soil sample locations and analytical results for cobalt (Co) copper (Cu), and silver (Ag) are presented in Figures 7.1 to 7.4.

The 2018 survey was also west of Bass Lake, covering an area of approximately 1.6 ha. Samples were collected along east-west or north-south oriented lines with a line spacing of 100 m and a sample spacing of 50 m. Some samples could not be collected due to surface disturbance (logging activities, trails, swampy areas, ponds, undeveloped soil profile). A total of 203 samples were collected from Ah horizon soils (humus). Summary statistics for cobalt (Co), copper (Cu), silver (Ag), arsenic (As), nickel (Ni) and lead (Pb) are presented in Table 7.2. Plan maps showing the 2018 soil sample locations and

analytical results for cobalt (Co) copper (Cu), and silver (Ag) are presented in Figures 7.5 to 7.8.

Table 7.1. 2017 Soil Sample Geochemistry Summary Statistics

| Statistics | Co (ppm) | Cu (ppm) | Ag (ppm) | As (ppm) | Ni (ppm) |
|-----------------------------|----------|----------|----------|----------|----------|
| Mean | 13.61 | 15.06 | 0.27 | 4.02 | 32.00 |
| Median | 12.25 | 10.05 | 0.24 | 3.10 | 30.50 |
| Minimum | 4.28 | 0.90 | 0.09 | 0.40 | 10.90 |
| Maximum | 43.10 | 180.00 | 2.23 | 78.20 | 95.90 |
| 70 th Percentile | 14.90 | 16.18 | 0.29 | 4.20 | 35.29 |
| 90 th Percentile | 20.29 | 30.65 | 0.39 | 6.80 | 44.49 |
| 95 th percentile | 23.47 | 43.93 | 0.48 | 8.60 | 50.26 |

Table 7.2. 2018 Soil Sample Geochemistry Summary Statistics

| Statistics | Co (ppm) | Cu (ppm) | Ag (ppm) | As (ppm) | Ni (ppm) | Pb (ppm) |
|-----------------------------|----------|----------|----------|----------|----------|----------|
| Mean | 6.24 | 36.44 | 1.17 | 18.05 | 25.50 | 63.00 |
| Median | 4.40 | 32.10 | 0.93 | 13.40 | 23.20 | 59.80 |
| Minimum | 1.40 | 4.40 | 0.06 | 1.30 | 6.40 | 6.00 |
| Maximum | 98.20 | 240.00 | 5.48 | 290.00 | 88.70 | 199.00 |
| 70 th Percentile | 5.70 | 42.58 | 1.48 | 18.68 | 29.46 | 82.68 |
| 90 th Percentile | 10.12 | 64.58 | 2.46 | 30.52 | 40.44 | 122.80 |
| 95 th percentile | 13.06 | 83.50 | 2.97 | 39.34 | 50.84 | 144.10 |

Individual soil sample coordinates and descriptions for the 2017 and 2018 soil geochemical surveys are presented in Appendix 2. Full analytical results and copies of the laboratory certificates are presented in Appendix 3.

A total of 631 soil samples were collected during the 2017 and 2018 surveys. Soil geochemical results have defined several north-northwest trending geochemical anomalies within the Nipissing diabase in and/or near historical pits, shafts and mineralized veins. Copper and silver anomalies are observed at the Gillies West, Gillies East and north of Gillies East. Three additional northwest-trending soil anomalies were also identified:

- 1) The Hector Anomaly is a 200 by 200 m soil anomaly occurring approximately 300 m northwest of the historic Hector silver mine shaft, and returned 4 samples with values greater than 25 ppm cobalt.
- 2) The Gillies East Anomaly is approximately 600 m northwest of the Hector Anomaly, and returned 6 samples with values greater than 25 ppm cobalt.
- 3) The Gillies West Anomaly is proximal to Gillies Creek, at the western margin of the survey area, and returned the highest cobalt value of 98 ppm.

Figure 7.1. 2017 B Horizon Soil Sample Locations

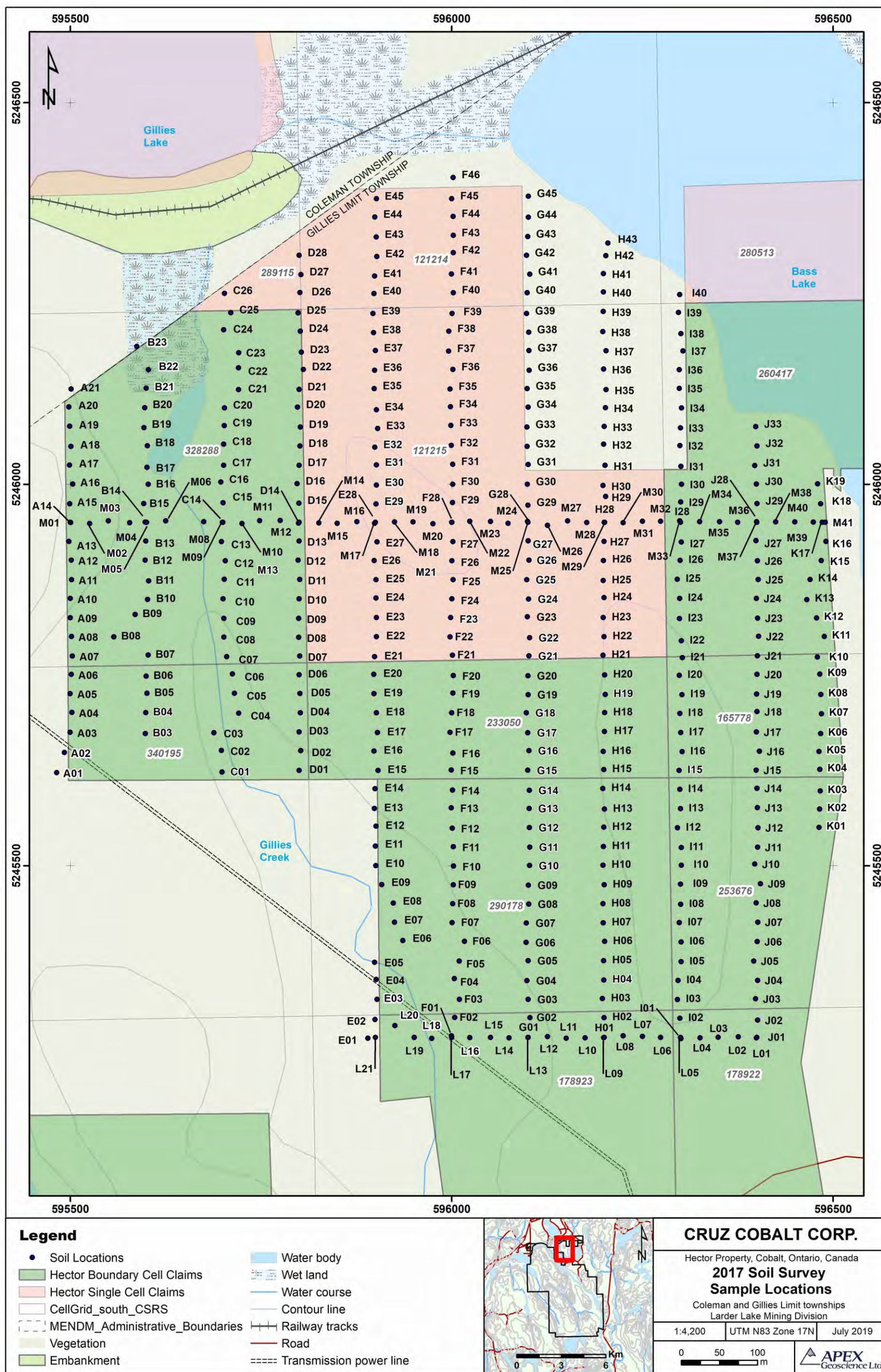


Figure 7.2. 2017 B Horizon Soil Geochemistry for Cobalt (Co)

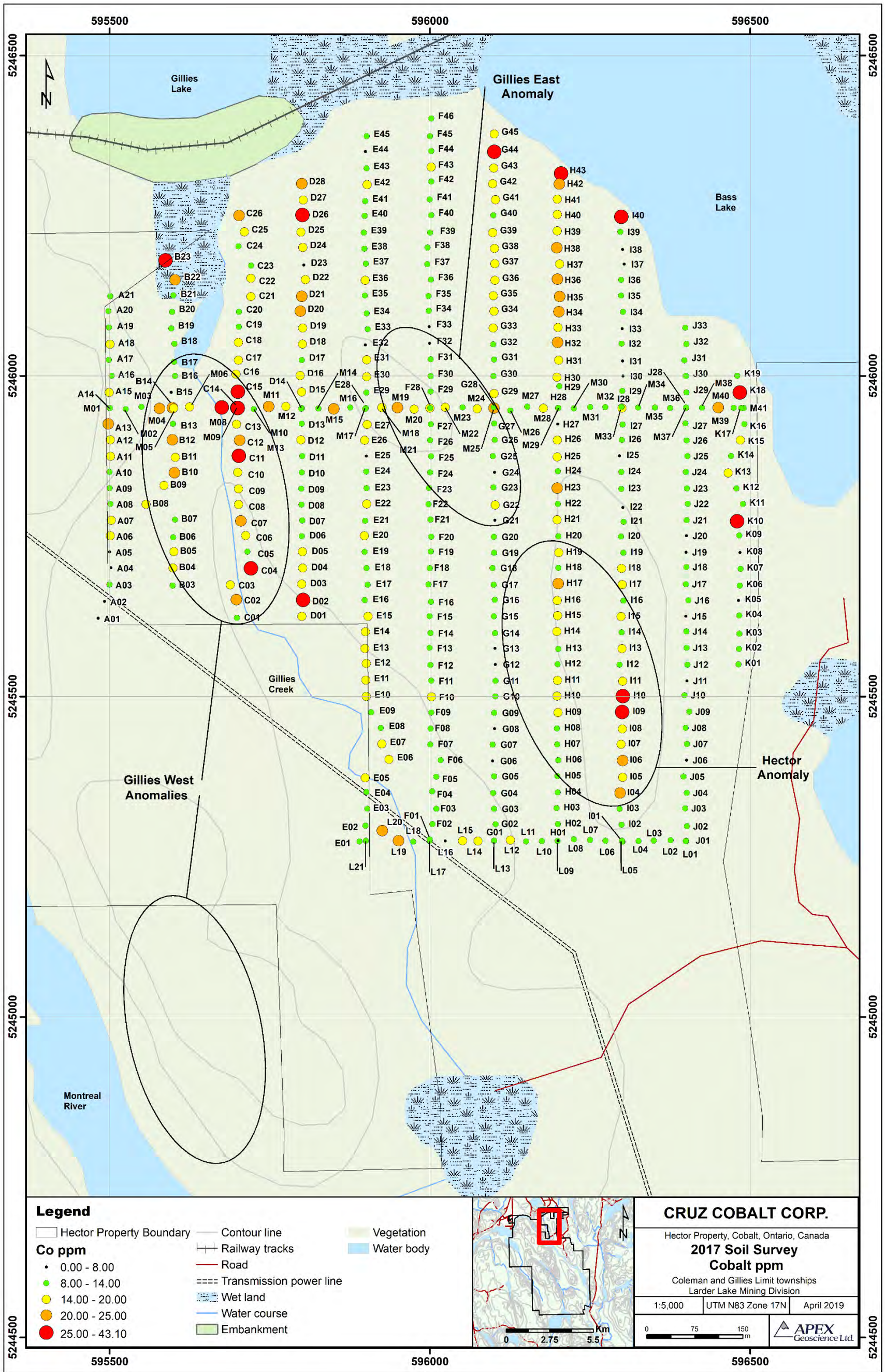


Figure 7.3. 2017 B Horizon Soil Geochemistry for Copper (Cu)

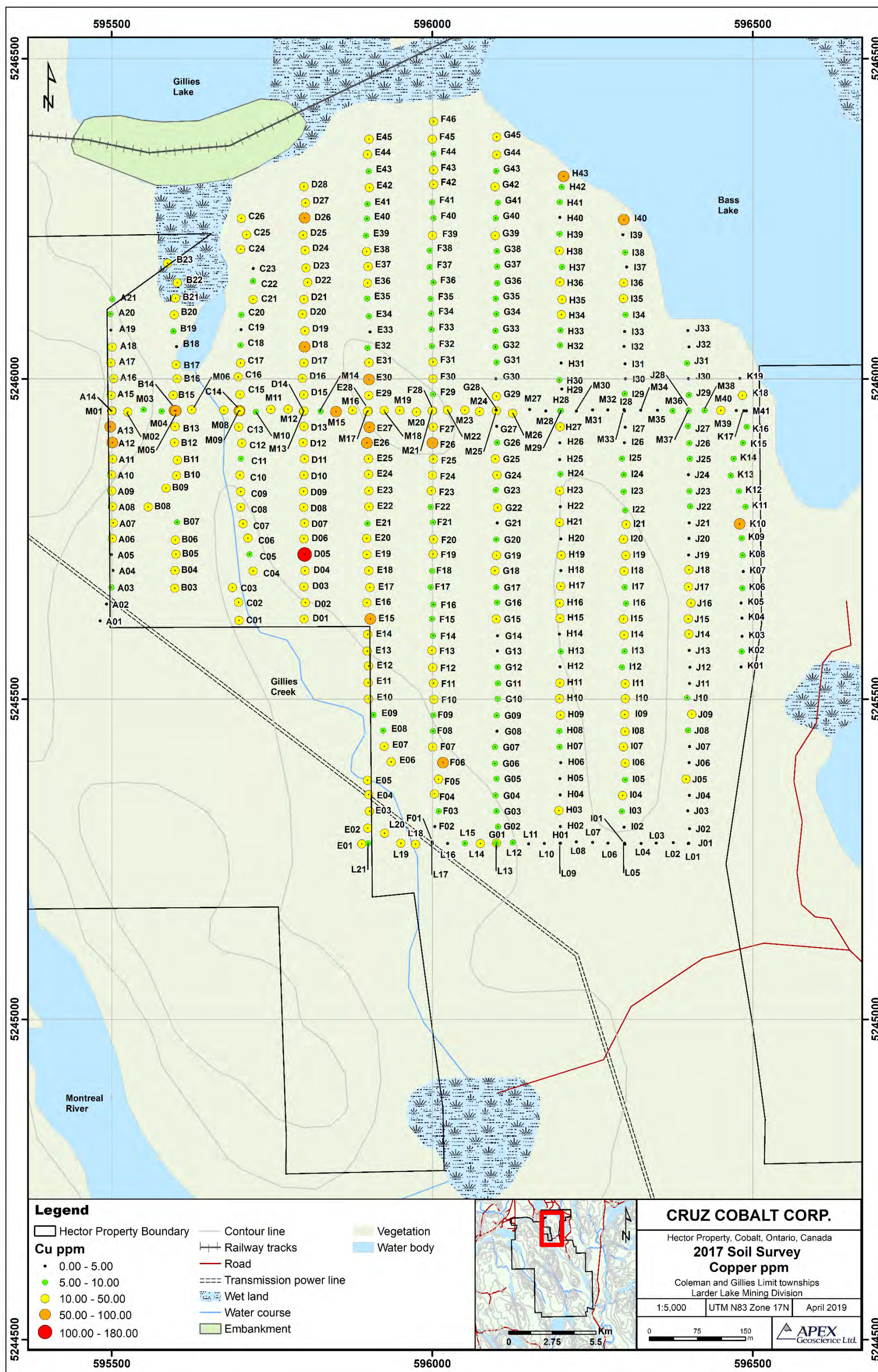


Figure 7.4. 2017 B Horizon Soil Geochemistry for Silver (Ag)

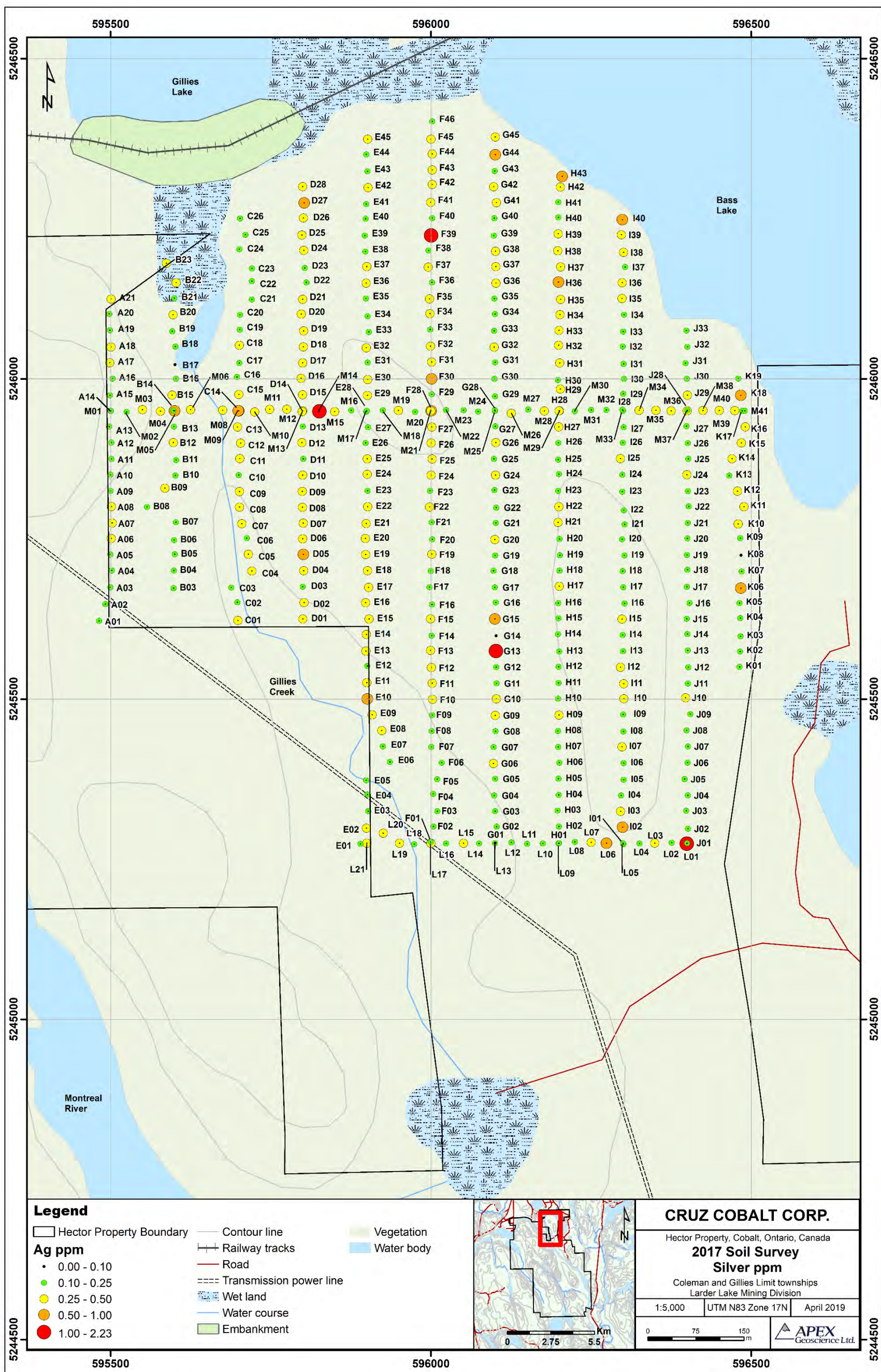


Figure 7.5. 2018 Ah Horizon Soil Sample Locations

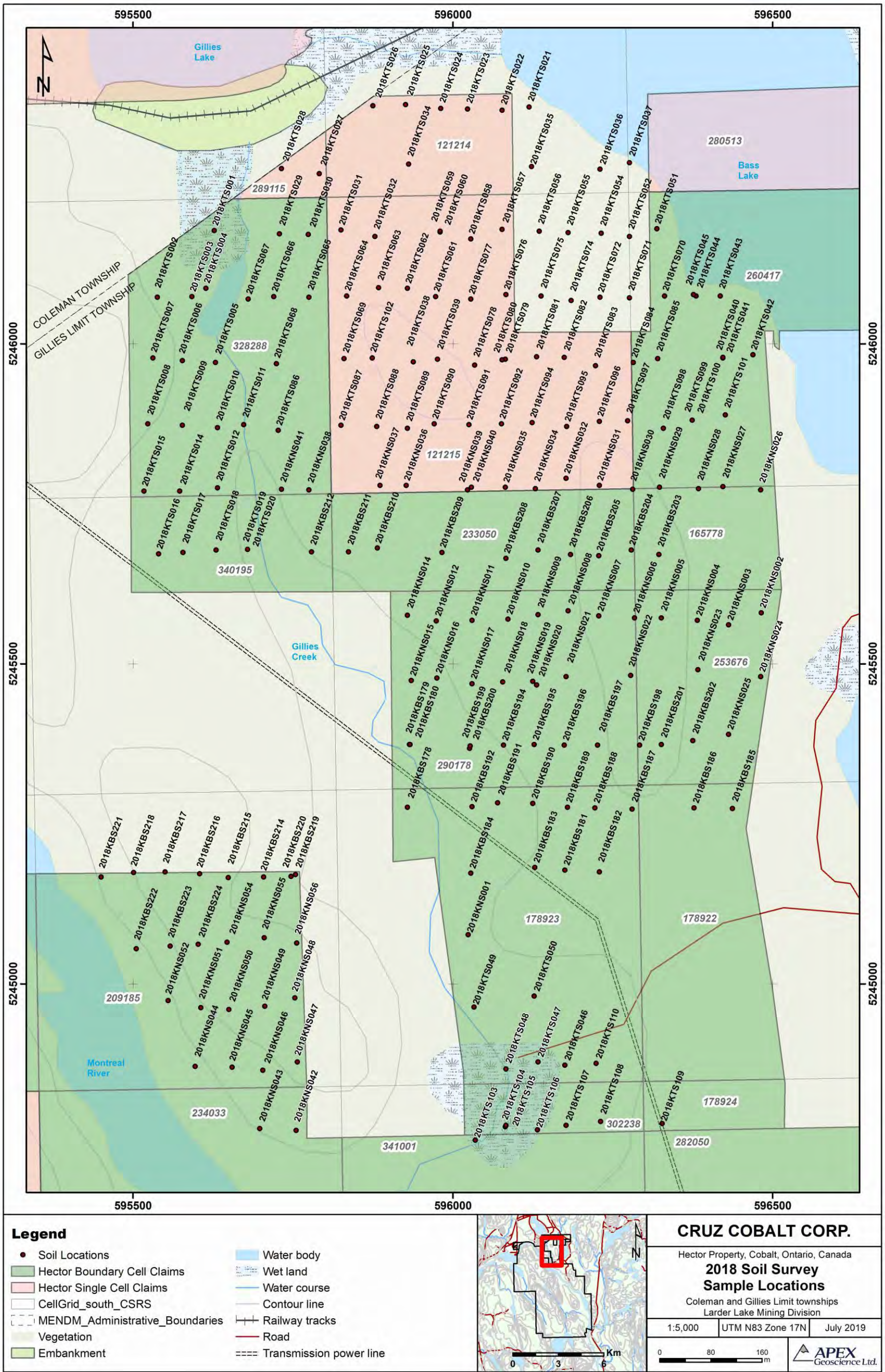


Figure 7.6. 2018 Ah Horizon Soil Geochemistry for Cobalt (Co)

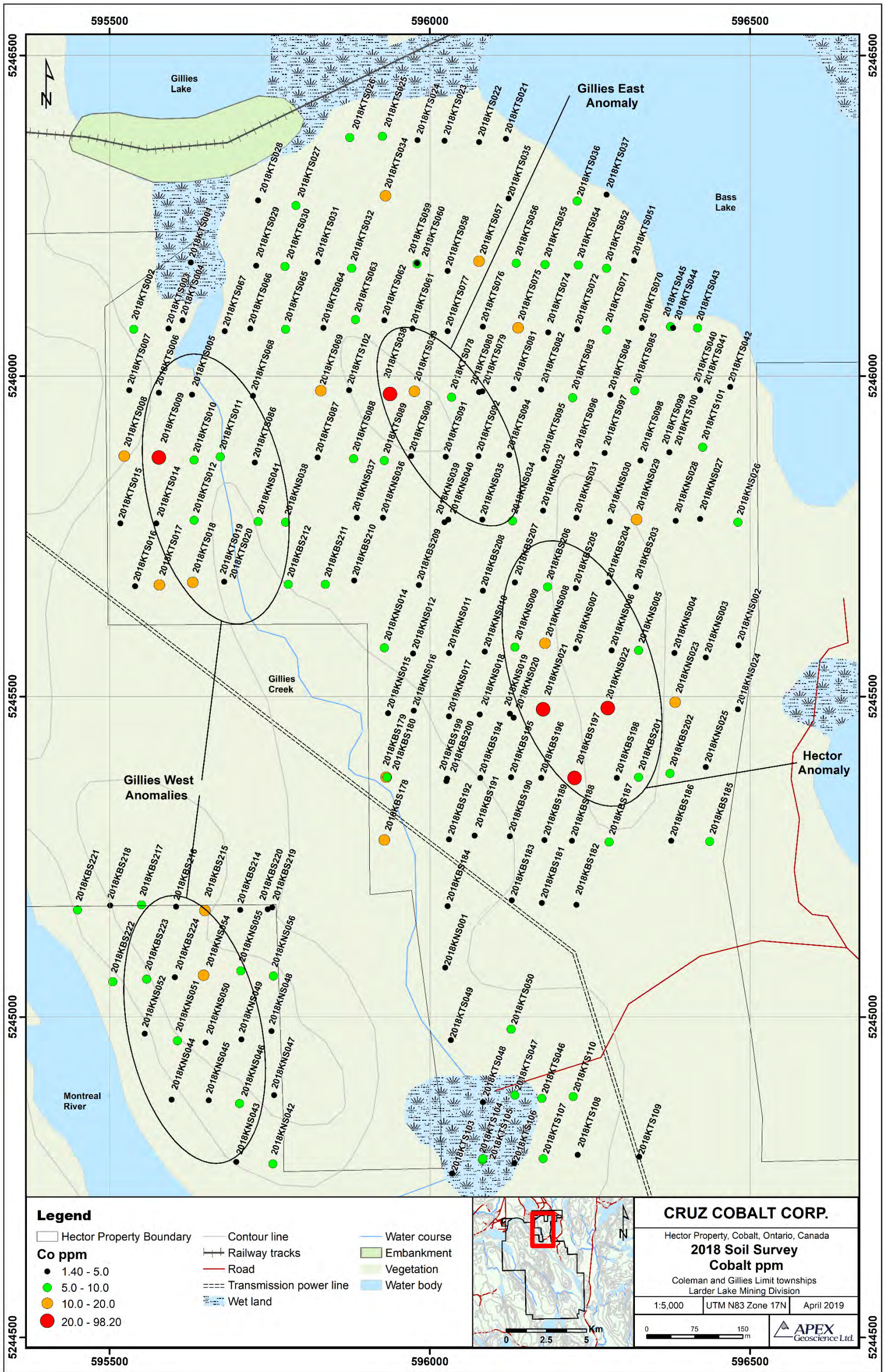


Figure 7.7. 2018 Ah Horizon Soil Geochemistry for Copper (Cu)

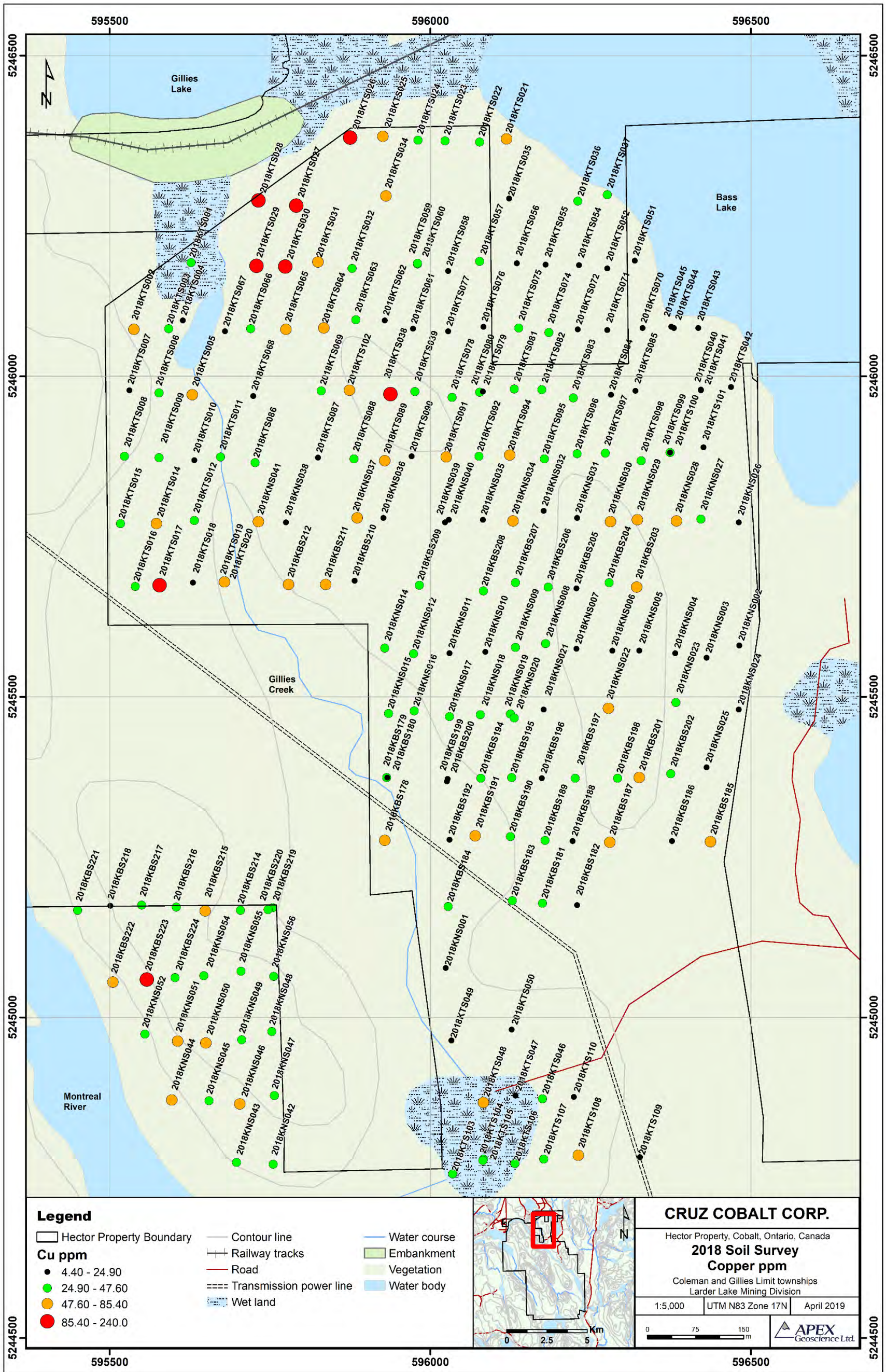
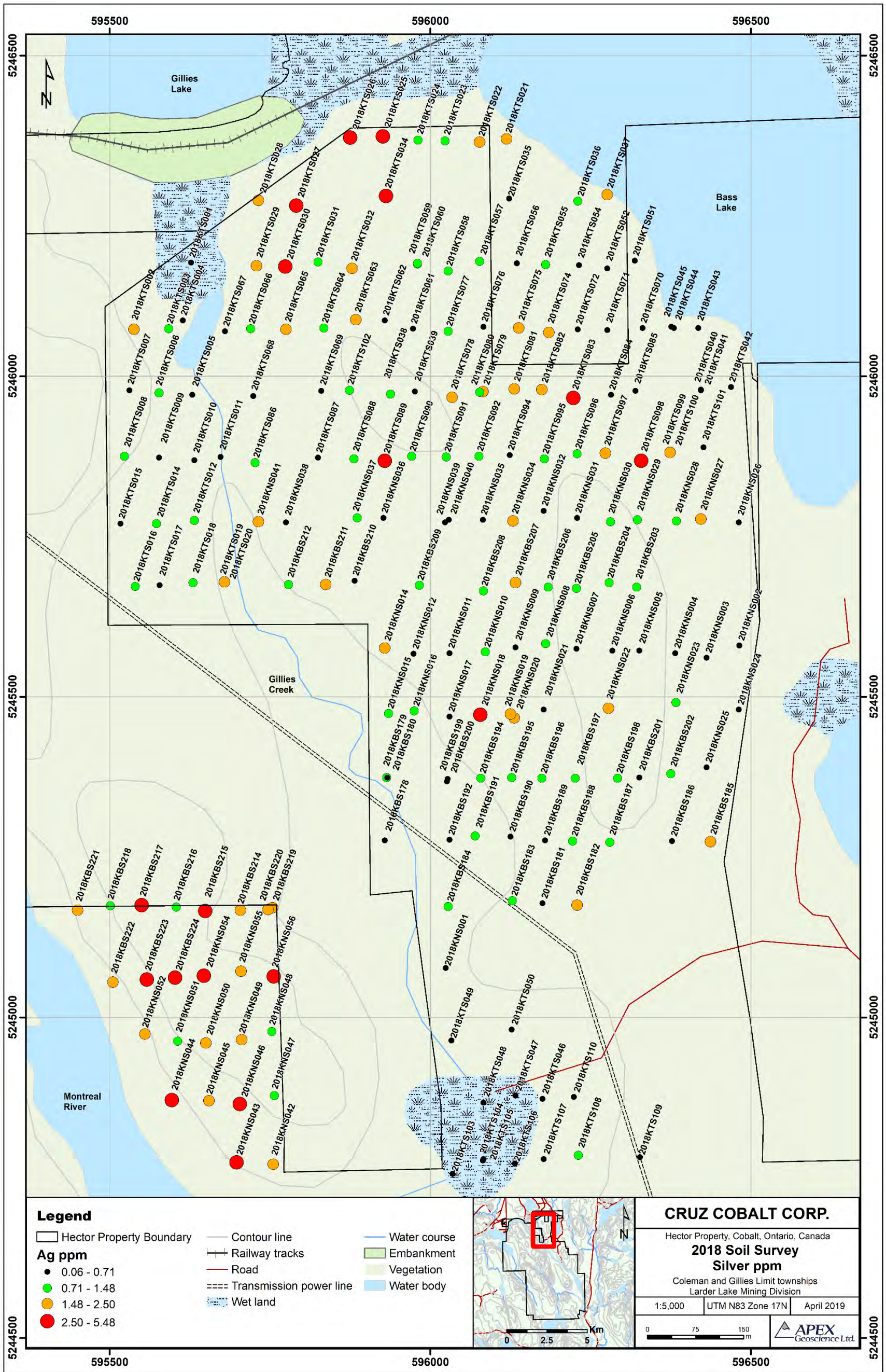


Figure 7.8. 2018 Ah Horizon Soil Geochemistry for Silver (Ag)



7.2 2018 Rock Geochemical Survey

A total of 43 rock samples were collected during 2018 in the vicinity of Bass Lake, in the northeast part of the Hector Property. Rock samples tested historical occurrences, known pits, shafts and mineralized veins, and new sites of interest. Collected rock samples were representative of the mineralized vein systems within the property and typically found in outcrops, talus and floats.

Seven rock grab samples returned values greater than 0.1% cobalt, and up to 2.02% cobalt from the Gillies East, Gillies West and Hector anomalies. Anomalous silver (up to 13.1 ppm) and gold (up to 0.37 ppm) values were also returned (Table 7.3). Summary statistics for cobalt (Co), copper (Cu), silver (Ag), arsenic (As), gold (Au) and nickel (Ni) are presented in Table 7.4. Plan maps showing the 2018 rock sample locations and analytical results for cobalt (Co) copper (Cu), and silver (Ag) are presented in Figures 7.9 to 7.12.

Table 7.3. 2018 Anomalous Rock Sample Results

| Sample ID | Prospect | Sample Type | Co (%) | Ag (g/t) | Au (g/t) | Cu (g/t) |
|------------|--------------|--------------------|--------|----------|----------|----------|
| 2018KBP040 | Gillies East | Prospect Pit Float | 2.02 | 13.1 | - | - |
| 2018KBP042 | | Outcrop | 0.61 | 4.1 | - | - |
| 2018KBP034 | Gillies West | Outcrop | 0.82 | - | - | - |
| 2018KBP033 | | Outcrop | 0.42 | - | - | - |
| 18MAP075 | Hector | Prospect Pit Float | 0.4 | 0.4 | - | - |
| 18KRP601 | | Prospect Pit Float | 0.19 | - | - | - |
| 2018KBP037 | Gillies West | Prospect Pit Float | 0.19 | - | - | - |
| 2018KBP061 | | Outcrop | - | - | 0.37 | - |
| 18KRP604 | Gillies East | Prospect Pit Float | - | 0.5 | - | 0.107 |

Table 7.4. 2018 Rock Sample Geochemistry Summary Statistics

| Statistics | Co (%) | Cu (%) | Ag (g/t) | Au (g/t) | Ni (%) |
|-----------------|--------|--------|----------|----------|--------|
| Mean | 0.12 | 0.02 | 0.61 | 0.01 | 0.01 |
| Median | 0.01 | 0.01 | 0.10 | 0.00 | 0.01 |
| Minimum | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 |
| Maximum | 2.02 | 0.11 | 13.10 | 0.37 | 0.16 |
| 70th Percentile | 0.03 | 0.02 | 0.20 | 0.00 | 0.01 |
| 90th Percentile | 0.41 | 0.05 | 0.94 | 0.03 | 0.04 |
| 95th percentile | 0.78 | 0.06 | 3.54 | 0.04 | 0.09 |

The Gillies East anomaly returned the highest assay values for cobalt, silver and copper while the Gillies West anomaly have returned the highest assay value for gold. The Hector anomaly returned a moderate assay value for both cobalt and silver. Individual rock sample coordinates and descriptions are presented in Appendix 2. Full analytical results and copies of the laboratory certificates are presented in Appendix 3.

Figure 7.9. 2018 Rock Sample Locations

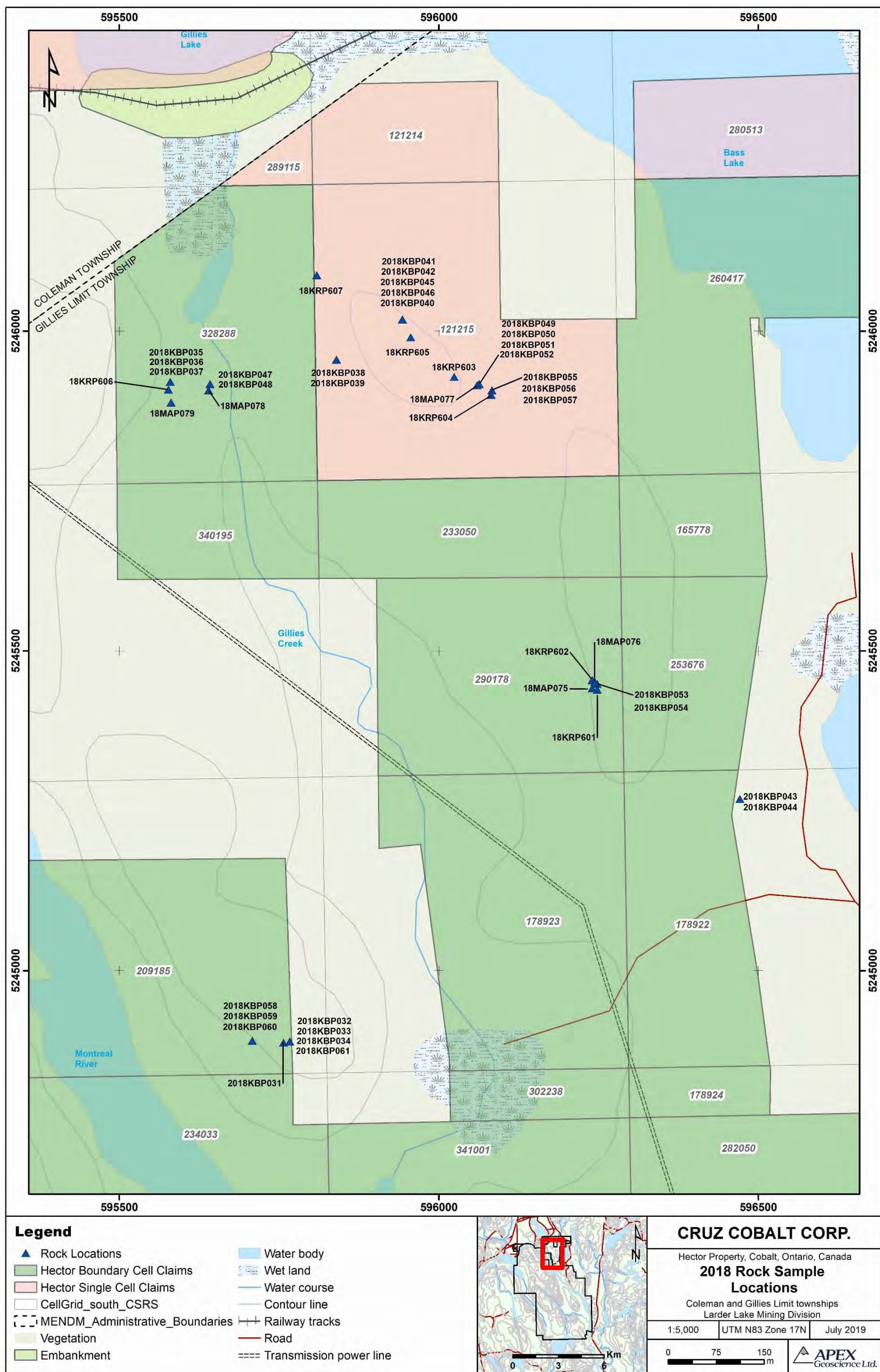


Figure 7.10. 2018 Rock Geochemistry for Cobalt (Co)

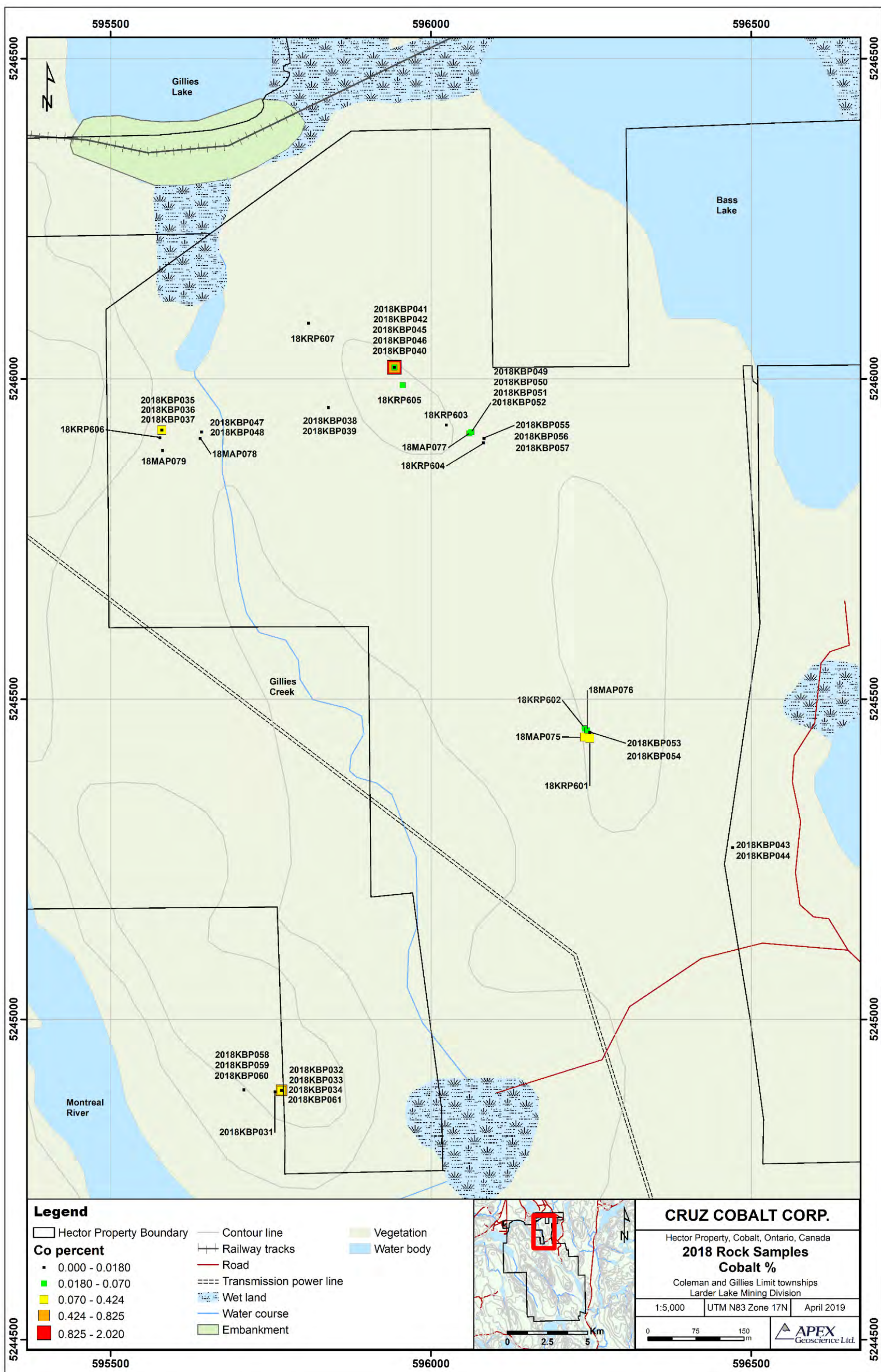


Figure 7.11. 2018 Rock Geochemistry for Copper (Cu)

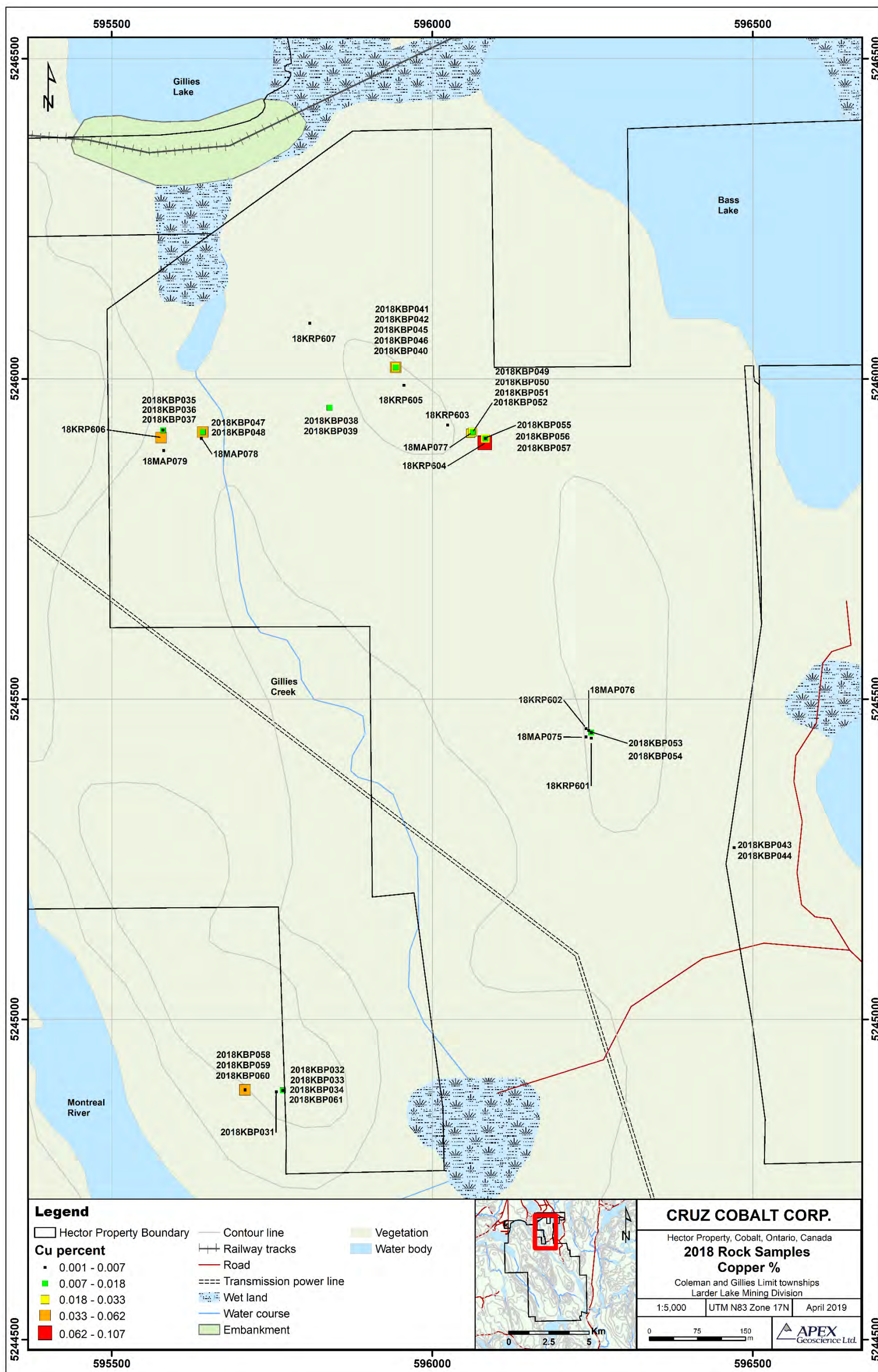
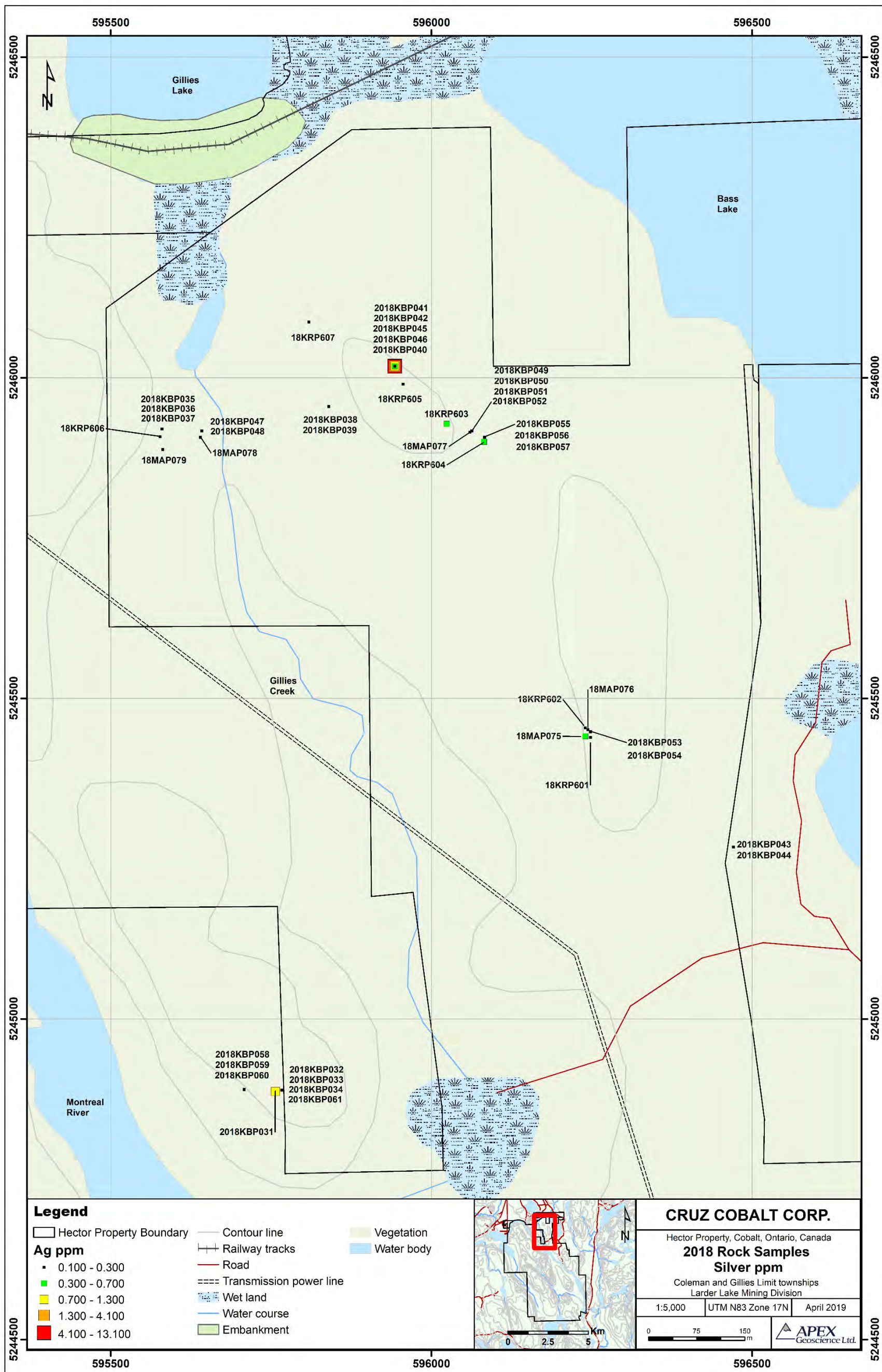


Figure 7.12. 2018 Rock Geochemistry for Silver (Ag)



7.3 2018 Ground Magnetometer Survey

A 23 line-km ground magnetic (magnetometer) survey was completed at the Hector Property as part of the 2018 exploration program between July 25th, 2018 and August 2nd, 2018. The ground magnetics survey was conducted to augment the soil sampling survey and to map the extents of the Nipissing diabase in the northwest area of the Property. The survey grid was composed of 33 traverse lines, with lines ranging in length from 215 m to 1030 m, spaced at 50 m, and oriented east-west.

7.3.1 Equipment and Procedures

The ground magnetic survey was conducted on foot using a “walking” magnetometer capable of acquiring nearly continuous data. No line-cutting or grid making was required for the survey work to be completed, rather, the traverse lines were established on-the-go using handheld GPS receivers that were pre-loaded with the proposed survey line paths. The GPS operator did not use flagging tape to mark the traverse lines as the magnetometer operator was always within view of the GPS operator.

The survey was completed using a Gem Systems Inc. GSM-19W CDGPS magnetometer collecting readings of the total magnetic field in walking mode at a 1 Hz frequency. A Gem Systems GSM-19 magnetometer was set up at a fixed location near the grid to record the diurnal variation at a fixed location (base station). The base station was positioned at approximately 596699E, 5244799N.

The GSM-19W walking magnetometers have a built-in GPS receiver which is used to affix a GPS location to each magnetic intensity measurement. The station locations were recorded using NAD27 datum UTM Zone 17 projection, then immediately re-projected to NAD 83 datum UTM Zone 17 projection.

Equipment and software used:

| | |
|------------------------|------------------------------|
| Base Magnetometer: | GemSystem Overhauser GSM-19 |
| Rover Magnetometer: | GemSystem Overhauser GSM-19W |
| Handheld GPS Receiver: | Garmin GPSmap 64 |
| QA/QC and Processing: | Geosoft Oasis montaj |

GSM-19W magnetometer specifications:

| | |
|---------------------|------------------------------------|
| Sensitivity: | 0.022 nT @ 1 Hz, (0.015 nT option) |
| Resolution: | 0.01 nT |
| Absolute Accuracy: | +/- 0.1 nT |
| Dynamic Range: | 20,000 to 120,000 nT |
| Gradient Tolerance: | Over 10,000 nT/m |
| Sampling Intervals: | 60+, 5, 3, 2, 1, 0.5, 0.2 sec |

Metal cultural features (cabins, metal drums, pipelines, power lines, etc.) were rarely observed in the field during the survey. A power line near traverse lines in the southern part of the block had no effect on geophysical results.

During the survey, small lakes / ponds, streams and marshy areas within the grid area were avoided and as a result, traverse lines were adjusted accordingly. The majority of traverse lines did not significantly deviate from the proposed lines, except where topography or private properties were a factor.

7.3.2 Data Processing and QA/QC

The quality of the data collected by both the base and walking magnetometers were assessed for excessive noise based on the recorded signal quality, the 4th difference noise levels, and the presence of high-frequency and high-amplitude signals in the magnetic intensity survey readings. The base magnetometer data was additionally reviewed for excessive space weather noise (due to solar events such as mass coronal ejections, etc.). The data collected by the base magnetometer was found to be sufficient for all diurnal corrections. The quality of the station coordinates recorded by the walking magnetometer was assessed for low confidence (less than 4 satellites visible to the GPS antenna) and unlikely positions (jumps in position that were not humanly possible). Poor quality data was then either removed from the database or filtered to assign more realistic station locations.

Diurnal corrections were performed by subtracting the magnetic field intensity readings recorded by the base magnetometer from the coincident magnetic field intensity readings recorded by the walking magnetometer – linear interpolation of the base magnetometer data was carried out to match the cycling rate of the walking magnetometer.

The survey was completed over multiple days, therefore an overlap line of more than 100 metres was traversed at the start and end of each day to facilitate levelling of the survey data to a common datum. To perform the levelling, the average magnetic intensity was calculated from each traverse of the overlap line, and then this value was subtracted from each corresponding dataset.

The diurnally corrected and leveled survey data was then merged into a single database; corrected and leveled data is labelled residual magnetic intensity (RMI). A simple moving window mean filter was also applied to the dataset to help smooth out high frequency noise; ideal window size was subjectively determined to be 5 to 7 readings.

Data was processed and gridded using Geosoft Oasis Montaj. The grids were created using the minimum curvature method, also called RANGRID, with 15 m cell size. GeoTIFF images of the grids was exported from Geosoft and imported into ArcGIS 10.3 to generate the geophysical survey figures for this report.

7.3.3 Survey Results

Residual magnetic intensity (RMI; Figure 7.10) and RMI first vertical derivative (1VD; Figure 7.11) data show laterally persistent linear highs and corresponding lows paralleling the structural trend at the Property. The high anomalies may represent stronger magnetic phases within the diabase complex; the magnetic lows are interpreted as structural jointing and/or localized offsets (faults).

The magnetic survey results provide a significant improvement in resolution versus the existing airborne magnetic data, defining local structural features and magnetic anomalies that may have exploration potential. Two primary anomalies of interest were identified west of Bass Lake:

- 3) A strong, arcuate, NNW-trending magnetic high anomaly at the center of the Nipissing diabase. The anomaly is most pronounced near the lower contact of the Nipissing diabase to the southeast and covers the historical Hector Silver Mine shaft (Hector Anomaly) and Gillies East.
- 4) A smaller NNW-trending anomaly to the west, proximal to the top of the sill and covering the northern part of the Gillies West anomaly.

Both anomalies are coincident with cobalt in soil anomalies from the 2017 and 2018 geochemical surveys and/or historical workings or mineral occurrences.

Figure 7.1. 2018 Ground Magnetic Survey Residual Magnetic Intensity (RMI)

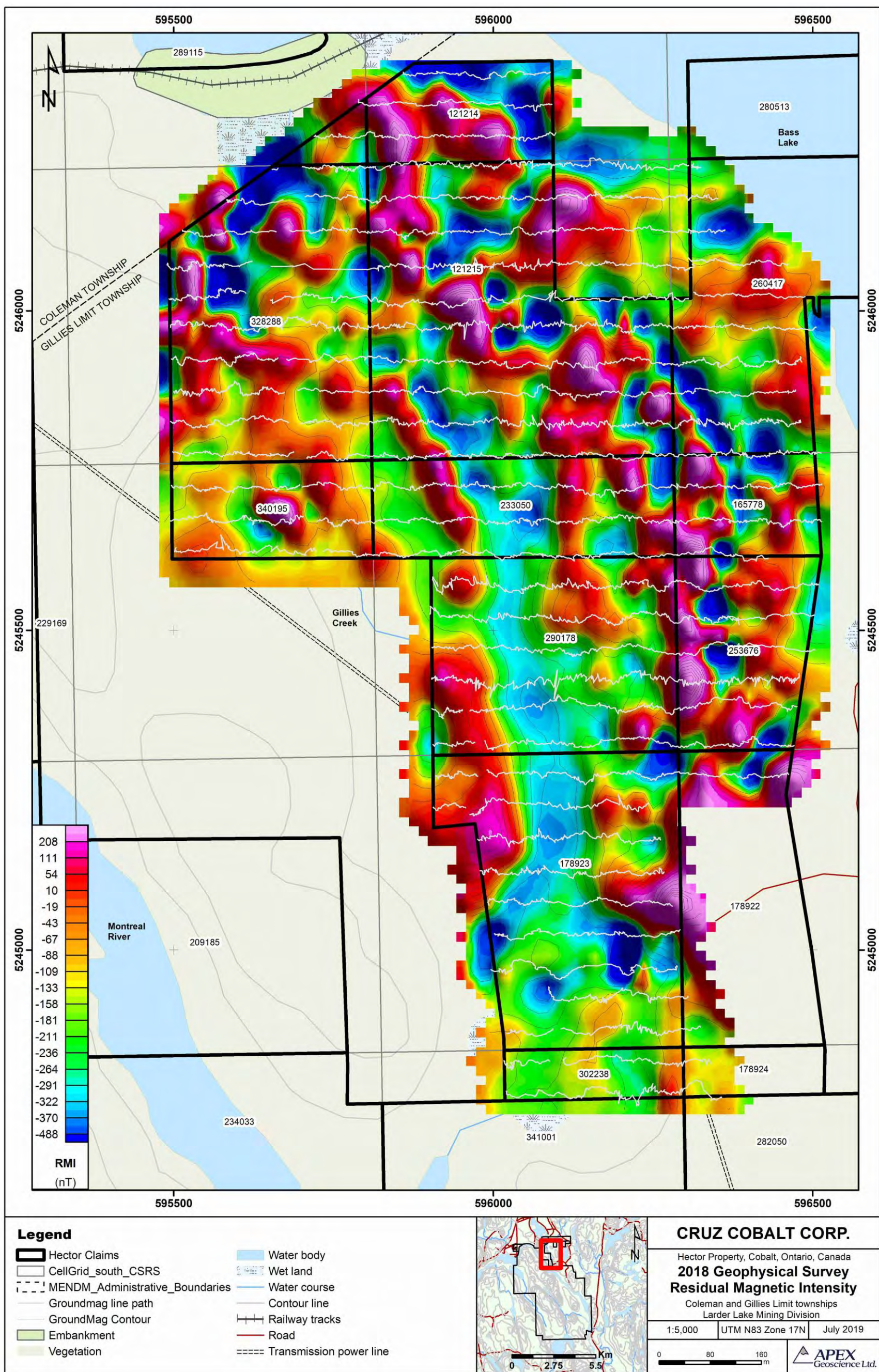
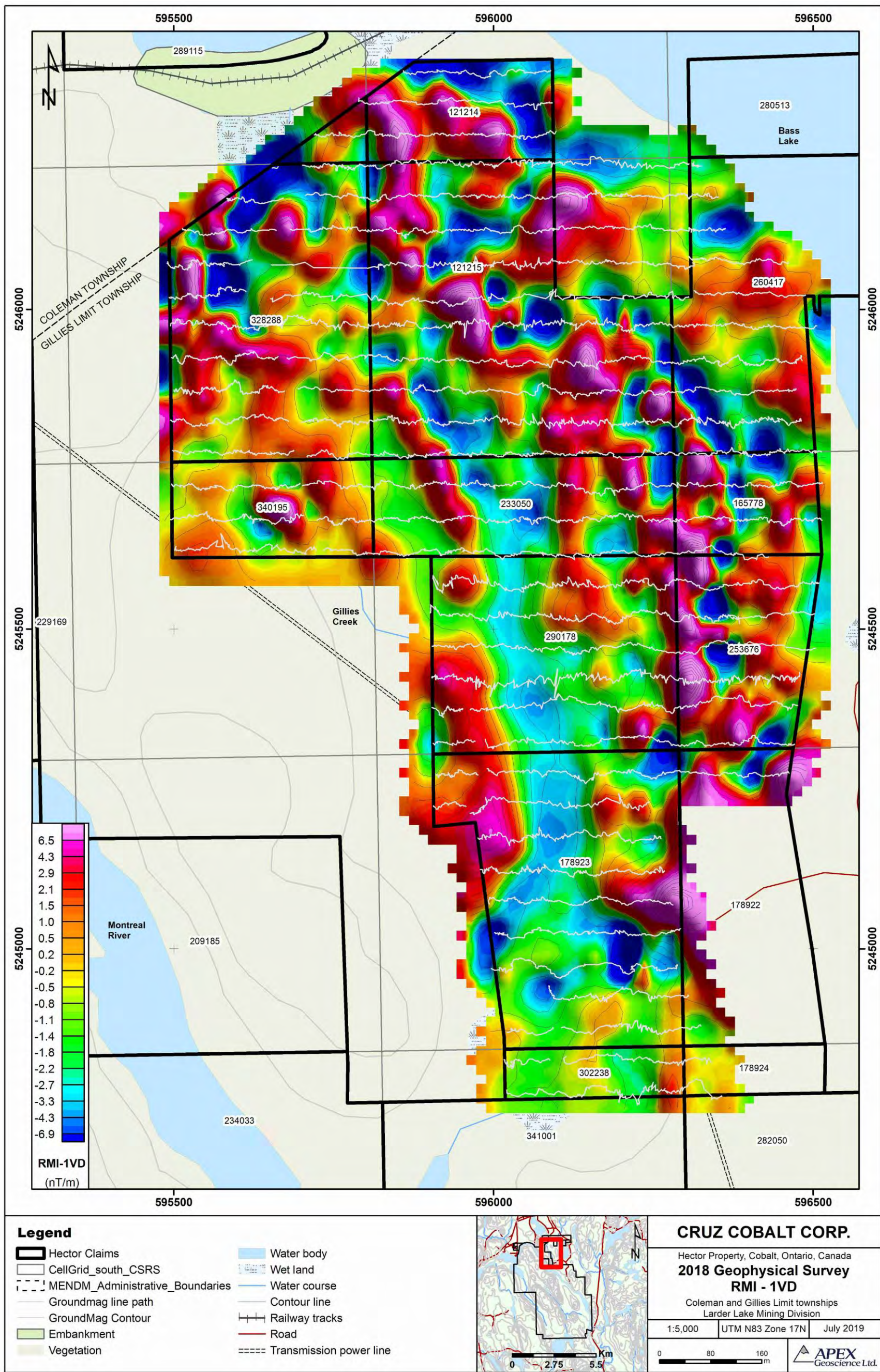


Figure 7.2. 2018 Ground Magnetic Survey Residual Magnetic Intensity First Vertical Derivative (RMI 1VD)



7.4 Diamond Drilling

Ten NQ diameter diamond drill holes, totalling 843 m, were completed during the 2018 program (Table 7.5; Figure 7.12). The drilling program tested historical cobalt results, in addition to 2017 and 2018 surface geochemical anomalies and ground magnetic anomalies at the Hector and Gillies East targets. Four drill holes totalling 395 m tested the Hector anomaly, 3 holes totalling 264 m tested the Gillies East 1 anomaly, and 3 holes totalling 185 m targeted the Gillies East 2 anomaly.

Table 7.5. 2018 Diamond Drill Hole Details

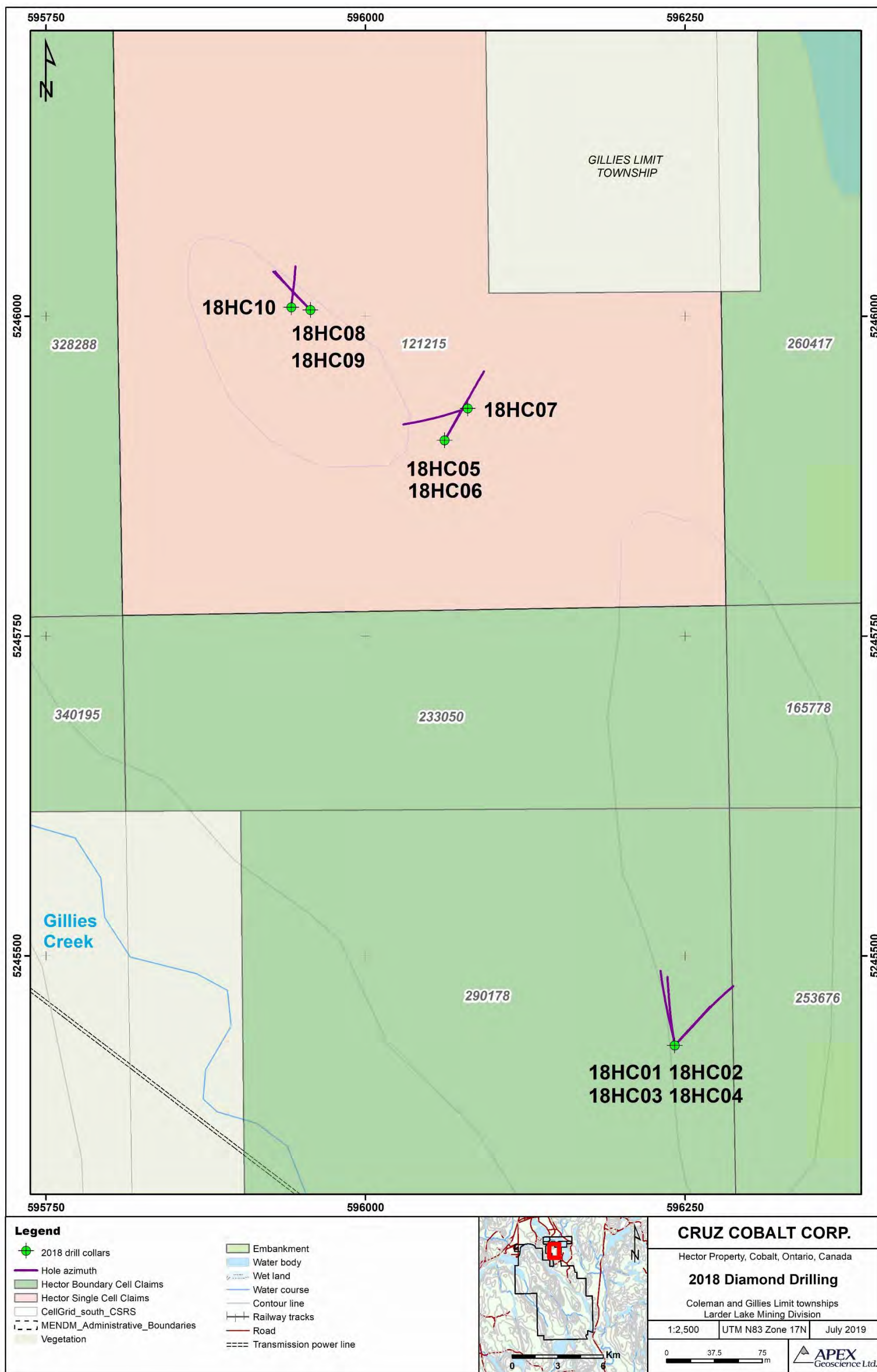
| Hole ID | Easting | Northing | Elevation (m) | Azimuth | Dip | Depth (m) | Samples Collected | Samples Assayed |
|---------|---------|----------|---------------|---------|--------|-----------|-------------------|-----------------|
| 18HC01 | 596242 | 5245430 | 294 | 350 | -45 | 85.7 | 48 | 48 |
| 18HC02 | 596242 | 5245430 | 294 | 350 | -60 | 105 | 43 | 43 |
| 18HC03 | 596242 | 5245430 | 294 | 40 | -50 | 105 | 43 | 43 |
| 18HC04 | 596242 | 5245430 | 294 | 40 | -65 | 99 | 32 | 32 |
| 18HC05 | 596062 | 5245903 | 303 | 30 | -45 | 91.5 | 36 | 36 |
| 18HC06 | 596062 | 5245903 | 303 | 30 | -60 | 98.5 | 28 | 28 |
| 18HC07 | 596080 | 5245928 | 294 | 255 | -45 | 74 | 27 | 27 |
| 18HC08 | 595957 | 5246005 | 295 | 315 | -45 | 59 | 25 | 25 |
| 18HC09 | 595957 | 5246005 | 295 | 315 | -60 | 80 | 26 | 26 |
| 18HC10 | 595942 | 5246007 | 295 | 5 | -45 | 45.5 | 34 | 34 |
| | | | | | Total: | 843.2 | 342 | 342 |

For each drill hole, geological observations were recorded comprising lithology, mineralization, alteration, veining and structural measurements. Geotechnical data were recorded comprising core recovery, rock quality designation (RQD) and magnetic susceptibility. Down-hole survey directional data was collected using a Reflex EZ-Shot instrument. Geological and geotechnical drill logs are presented in Appendix 2. Full analytical results and copies of the laboratory certificates are presented in Appendix 3.

7.4.1 Hector Anomaly Results

Drill holes 18HC01 through 18HC04 targeted historical trenches and cobalt in rock and soil geochemical anomalies. All holes drilled through variable phases of the Nipissing diabase without reaching the lower contact with the Archean rocks. The holes intersected moderate to strong alteration and near surface anomalous cobalt (Co) and copper (Cu) values beneath the vertical projection of the historical trench. Mineralization was present as disseminated to clotty pyrite-chalcopyrite and is associated with moderate to intense chlorite-silica and potassic alteration of diabase host-rocks and narrow carbonate-quartz-potassium feldspar vein zones.

Figure 7.3. 2018 Diamond Drill Hole Locations



Drill hole 18HC01 returned 66 ppm Co and 132 ppm Cu over 10.88 m core length from a depth of 5.12 m. Drill holes 18HC02, 18HC03, and 18HC04 intersected a second zone of mineralization between 80-95 m depth. Drill hole 18HC02 returned 310 ppm Co over 1 m core length at a depth of 83.45 m, 18HC03 reported 300 ppm Cu and 90 ppm Co over 2.10 core length at 93.40 m, and 410 ppm Cu and 80 ppm Co over 1 m core length at 92 m down hole. Significant drill hole intercepts are presented in Table 7.6. Cross sections for the Hector Anomaly holes are presented in Figures 7.13 and 7.14.

Table 7.6. 2018 Diamond Drill Hole Significant Intercepts

| Target | Drill Hole | From (m) | To (m) | Interval (m)* | Co (ppm) | Cu (ppm) | Au (ppb) | Ag (ppm) |
|------------------|------------------|----------|--------|---------------|----------|----------|----------|----------|
| Hector | 18HC01 | 5.12 | 16 | 10.88 | 66 | 132 | - | - |
| | <i>and</i> | 24 | 25 | 1 | 110 | - | - | - |
| | 18HC02 | 83.45 | 84.45 | 1 | 310 | 60 | - | - |
| | <i>and</i> | 89.45 | 91.45 | 2 | 110 | 110 | - | - |
| | <i>and</i> | 94.33 | 95.02 | 0.69 | 130 | 150 | - | - |
| | 18HC03 | 11.8 | 17 | 5.2 | - | 127 | - | - |
| | <i>and</i> | 89.1 | 89.6 | 0.5 | 130 | 240 | - | - |
| | <i>and</i> | 93.4 | 95.5 | 2.1 | 90 | 300 | - | - |
| Gillies East 1 | 18HC04 | 92 | 93 | 1 | 80 | 410 | - | - |
| | 18HC05 | 12 | 14 | 2 | 70.00 | 50.00 | - | - |
| | <i>and</i> | 30.8 | 31.3 | 0.5 | 40.00 | 230.00 | - | - |
| | 18HC06 | 10.5 | 15.5 | 5 | 42 | 162 | - | - |
| | <i>and</i> | 50 | 51 | 1 | 50 | 650 | - | - |
| | 18HC07 | 4.0 | 4.5 | 0.5 | 30.00 | 110.00 | - | - |
| Gillies East 2 | <i>and</i> | 32 | 33 | 1 | 40.00 | 110.00 | - | - |
| | 18HC08 | 8 | 9 | 1 | - | - | 37 | 1.3 |
| | <i>and</i> | 18 | 21 | 3 | 97 | 57 | - | - |
| | 18HC09 | 18 | 23 | 5 | - | 472 | - | - |
| | <i>including</i> | 18 | 19 | 1 | - | 1420 | - | - |
| | <i>and</i> | 74.15 | 74.65 | 0.5 | 120 | - | 21 | - |
| | 18HC10 | 15 | 16 | 1 | 110 | - | 33 | - |
| | <i>and</i> | 18 | 21 | 3 | - | 283 | - | - |
| <i>including</i> | 19 | 20 | 1 | - | 560 | - | - | |

*The true width of mineralization is estimated to be 70-80% of the drilled interval.

Figure 7.4. Drill Cross Section 18HC01 and 18HC02

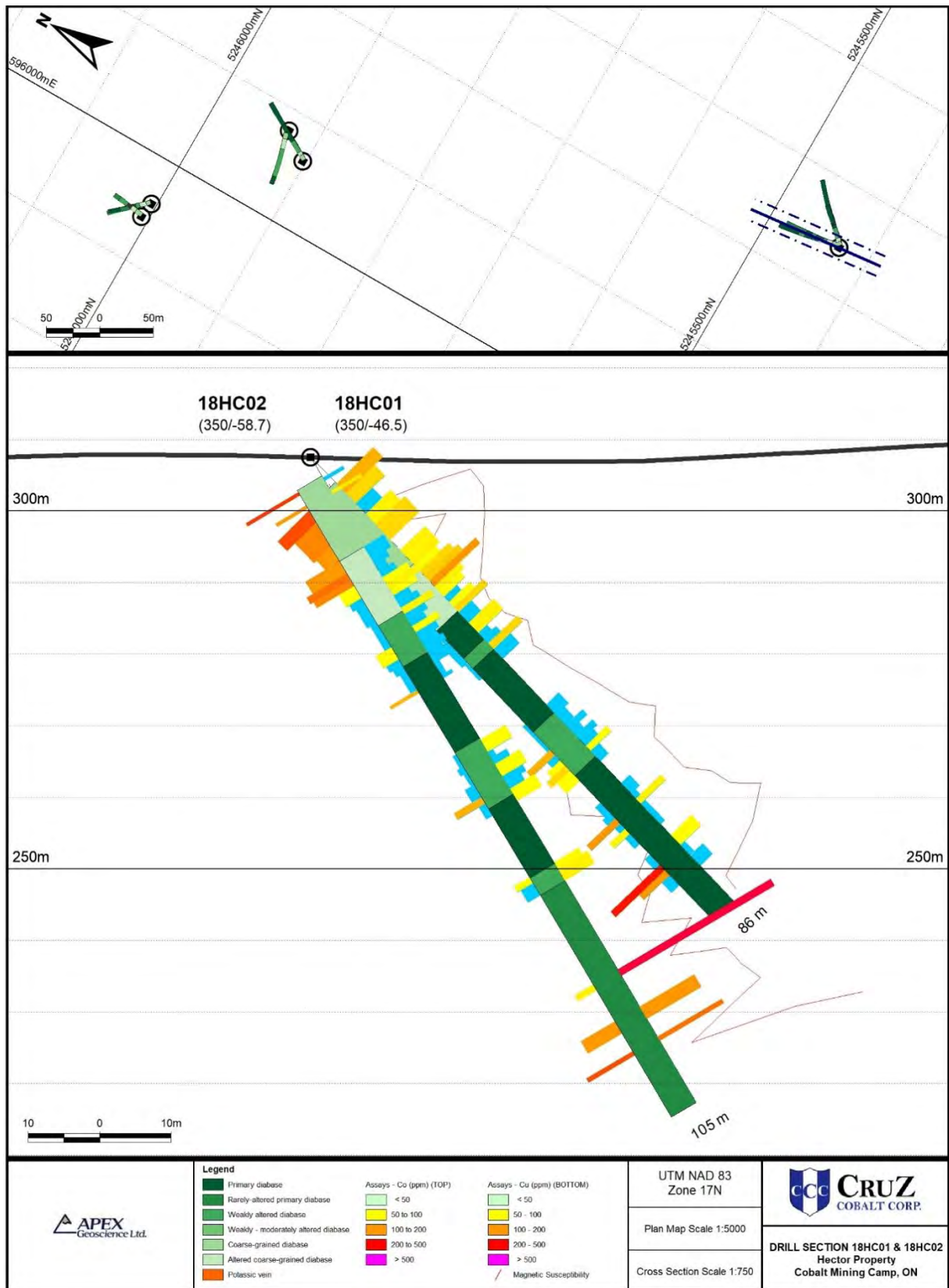
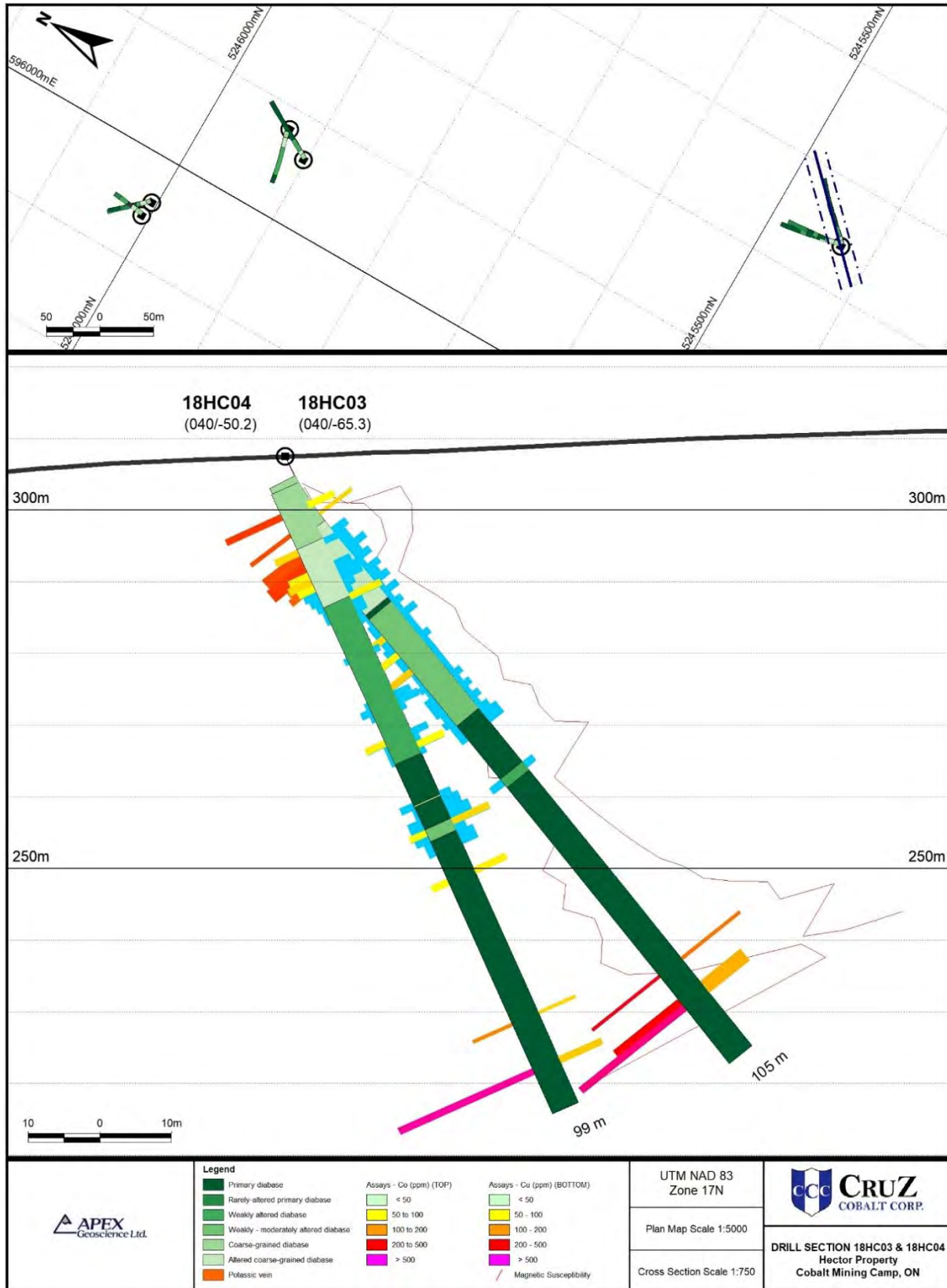


Figure 7.5. Drill Cross Section 18HC03 and 18HC04



7.4.2 Gillies East 1 Anomaly Results

The Gillies East 1 target is a northwest trending, sub-vertical vein zone intermittently exposed on the surface over a 100 m strike that returned anomalous cobalt in rock and soil values. Hole 18HC06 drilled across the projected strike of the vein at a -60° dip. The drill hole intersected a broad zone of anomalous copper returning 162 ppm Cu and 42 ppm Co over 5 m core length at a depth of 10.5 m. The zone is associated with moderate chlorite-potassic alteration and disseminated pyrite-chalcopyrite mineralization. A deeper, narrow zone of pyrite-chalcopyrite vein mineralization coincident with the vertical projection of surface mineralization returning 650 ppm Cu over 1 m core length at a depth of 50 m. Drill hole 18HC05 returned 230 ppm Cu over 0.5 m at a depth of 30.8 m. A cross section for the Gillies East 1 Anomaly holes is presented in Figure 7.15.

7.4.3 Gillies East 2 Anomaly Results

The Gillies East 2 target is centred over an area of historic prospect pits and shallow vertical shafts. The previous exploration was driven by a series of narrow, northwest trending fracture-controlled pyrite-chalcopyrite-erythrite (hydrous cobalt-arsenite) mineralized potassic altered quartz veins that returned cobalt values of 2.02% and 0.61% in float and rock outcrop. Mineralization intersected in 18HC08, 18HC09 and 18HC10 is coincident with the vertical projection of the vein system and is strongly associated with moderate to intense alteration haloes surrounding carbonate-potassium feldspar-silica (\pm chlorite) veins, and clotty pyrite-chalcopyrite.

Drill Hole 18HC08 drilled oblique across the area of the historic trenches at a -45° dip. The drill hole returned 97 ppm Co over a 3 m core length interval from a depth of 18 m beneath the vertical projection of surface mineralization. Drill hole 18HC09 drilled at a -60° dip intersected a broader zone of copper mineralization returning 472 ppm Cu over a 5 m core interval from a depth of 18 m, including 0.14% Cu over 1 m. Drill hole 18HC10 drilled to the north at a -45° dip intersected the same zone returning 283 ppm Cu over 3.0 m; including 560 ppm Cu over 1m core length from a depth of 18.00 m. A cross section for the Gillies East 2 Anomaly holes is presented in Figure 7.16.

Figure 7.6. Drill Cross Section 18HC05, 18HC06 and 18HC07

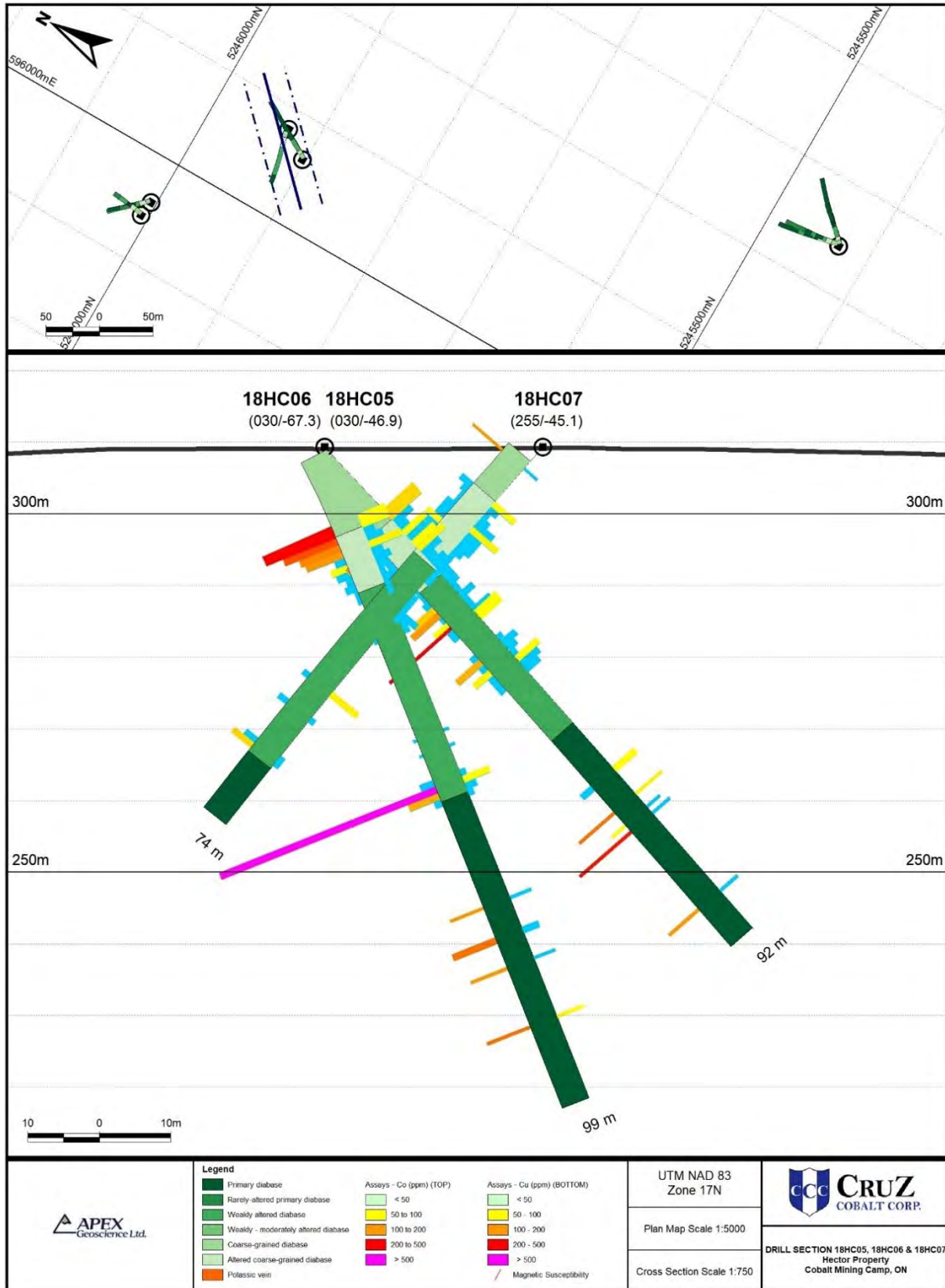
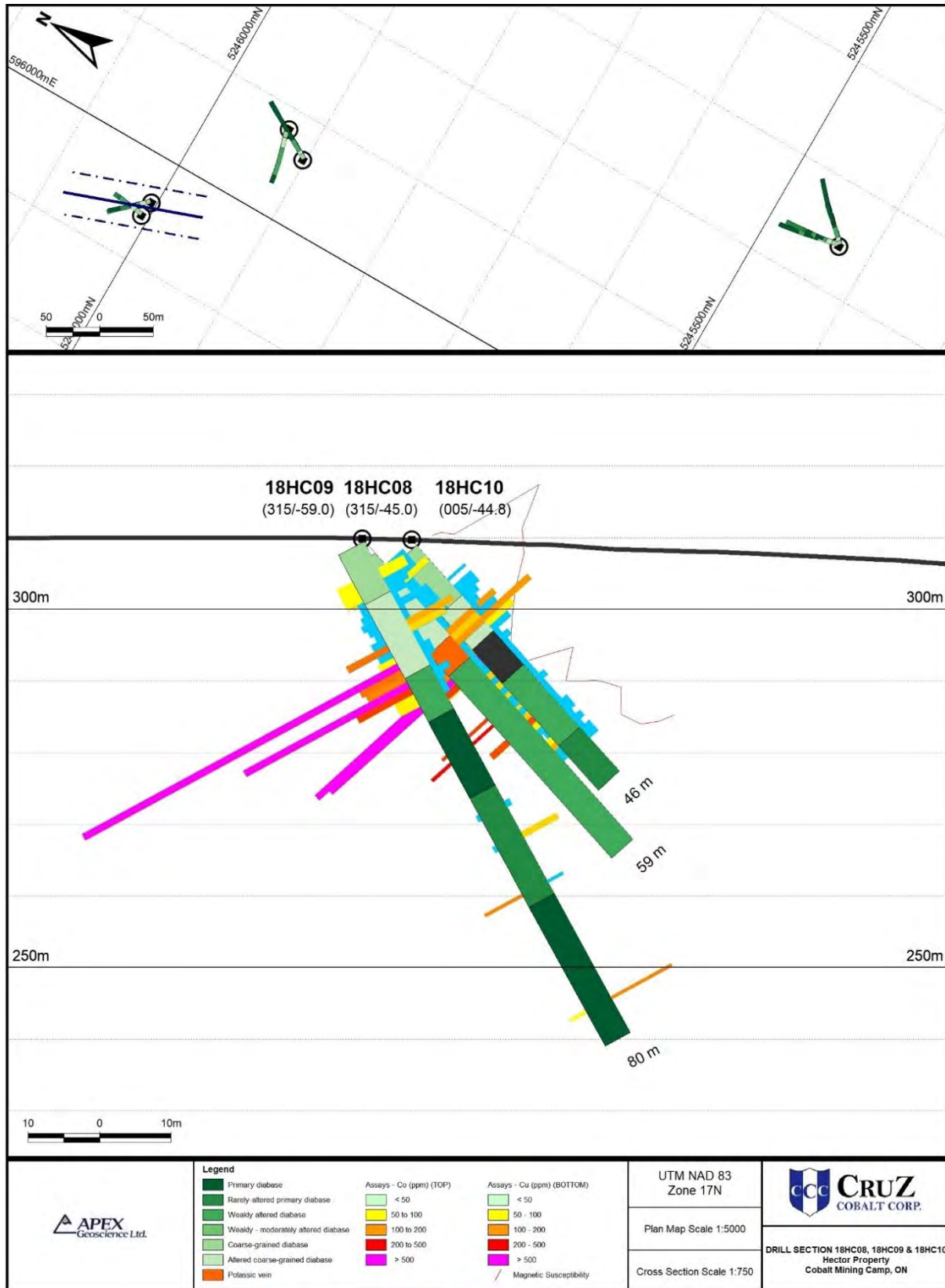


Figure 7.7. Drill Cross Section 18HC08, 18HC09 and 18HC10



8 Sample Preparation, Analyses and Security

8.1 2017 Soil Samples

8.1.1 *Sample Collection and Shipping*

A total of 428 soil samples were collected by Jean Marc Gaudreau at the Hector Property in 2017, primarily targeting the B horizon. A shovel or auger was used to dig a small hole to reach the B horizon. Depending on ground conditions and vegetation, the hole depth ranged from a few centimetres (cm) up to 61 cm, but was typically 10 to 12 cm. Samples weighing approximately 50 to 100 grams (g) were placed in labelled sample bags and sealed. Sample locations were recorded with a handheld GPS device and written in a notebook along with the matching sample number and a description of the sample, and later transcribed to an Excel spreadsheet. Handheld GPS devices are accurate to ± 5 m.

From the field, samples were transported to AGAT laboratories in Mississauga, Ontario for analysis. The authors of this Report consider the measures employed in the chain of custody of the samples to be sufficient for this stage of exploration.

8.1.2 *Sample Preparation and Analysis*

Once received by AGAT, the soil samples were dried and screened to -180 microns (80 mesh). The prepared samples were analyzed by AGAT method number 201-071 (Metals Package by 4 Acid Digest, ICP/ICP-MS Finish). A prepared sample is digested with hydrochloric, perchloric, nitric and hydrofluoric acids. The final solution is then analyzed by inductively coupled plasma mass spectrometry (ICP-MS).

8.1.3 *Quality Assurance and Quality Control*

For the 2017 soil sampling program, Cruz Cobalt relied on the internal quality assurance and quality control (QA/QC) measures employed by AGAT laboratories. QA/QC measures at AGAT include routine screen tests to verify crushing and pulverizing efficiency, sample preparation duplicates, and analytical quality controls (blanks, standards, and duplicates). AGAT Mississauga is certified with ISO/IEC 17025:2005 and ISO 9001:2008 accreditation from the Standards Council of Canada.

It is the authors' opinion that the sample collection, preparation, security, analytical and QA/QC measures used during the 2017 soil sampling program were adequate for this stage of exploration at the Hector Property.

8.2 2018 Soil Samples

8.2.1 *Sample Collection and Shipping*

A total of 203 soil samples were collected by APEX personnel at the Hector Property in 2018, primarily targeting the Ah horizon (humus). A shovel was used to clear the sample

area of surface material and dig a small hole to reach the Ah horizon. Depending on ground conditions and vegetation, the hole depth ranged from a few centimetres (cm) up to 30 cm, but was typically 4 to 6 cm. Samples weighing approximately 50 to 100 grams (g) were placed in labelled sample bags along with a sample tag inscribed with the unique sample number, and sealed. Sample locations were recorded with a handheld GPS device and on a tablet device along with the matching sample number, the date, the sampler's name and a description of the sample. Additional details, such as site disturbance, ground cover, vegetation and landform were also recorded on the tablet device. All data recorded on the tablet was later copied into an Excel spreadsheet. Handheld GPS and tablet devices are accurate to ± 5 m and ± 7 m respectively.

Soil samples were placed into woven poly (rice) bags for shipment to the analyzing laboratory. Cable ties were used to securely close the rice bags. Samples were transported by APEX personnel to the ALS geochemistry laboratory in Sudbury, Ontario for preparation. From there, the samples were transported within the ALS network to the ALS geochemistry laboratory in North Vancouver, British Columbia for analysis.

The authors did not have control over the soil samples at all times during transport, and therefore cannot personally verify what happened to the samples from shipping up to the time they were received by ALS. However, the authors have no reason to believe that the security of the samples was compromised in any way during transport or once they entered the ALS chain of custody.

8.2.2 Sample Preparation and Analysis

Once received by ALS, the soil samples were logged in to the ALS computerized tracking system, assigned bar code labels and weighed. The samples were then dried at 60°C and weighed again. Each sample was screened to -180 micron (80 mesh). The plus fraction was retained for storage and the minus fraction was split to obtain a 0.5 gram sample for analysis. All rejects were retained for storage.

The prepared samples were analyzed by ALS Geochemistry Method ME-MS41 (Ultra Trace Analysis by Aqua Regia Digestion and ICP-MS). A prepared sample (nominal 0.5 g) is digested with 75% aqua regia (3:1 ratio of HCl:HNO₃) in a graphite heating block. The solution is then analyzed by inductively coupled plasma mass spectrometry (ICP-MS) with results corrected for spectral inter-element interferences.

8.2.3 Quality Assurance and Quality Control

Quality assurance and quality control (QA/QC) measures at ALS include routine screen tests to verify crushing and pulverizing efficiency, sample preparation duplicates (every 50 samples), and analytical quality controls (blanks, standards, and duplicates). Quality control samples are inserted with each analytical run, with the minimum number of QC samples dependant on the rack size specific to the chosen analytical method. Results for quality control samples that fall beyond the established limits are automatically red-flagged for serious failures and yellow-flagged for borderline results. Every batch of

samples is subject to a dual approval and review process, both by the individual analyst and the Department Manager, before final approval and certification. ALS Sudbury is certified with ISO/IEC 17025:2017 and ISO 9001:2015 accreditation from the Standards Council of Canada.

The QA/QC measures employed by APEX in the field during the 2018 soil sampling program comprised inserting field duplicate samples at a rate of approximately 1 duplicate per 20 samples. Duplicate sample were collected to assess the repeatability of individual analytical values. A total of 11 duplicate samples were collected and analyzed. No significant QA/QC issues were detected during review of the soil sampling data.

It is the authors' opinion that the sample collection, preparation, security, analytical and QA/QC measures used during the 2018 soil sampling program were adequate for this stage of exploration at the Hector Property.

8.3 2018 Rock Samples

8.3.1 *Sample Collection and Shipping*

A total of 43 rock samples were collected by APEX personnel at the Hector Property in 2018. One representative rock sample, weighing no more than 2.5 kg, was collected from each sample site. Samples were placed in labelled sample bags along with a sample tag inscribed with the unique sample number and sealed. Sample locations were recorded with a handheld GPS device and written on a sample card bearing the matching sample number, the date and the sampler's name. Rock samples were described in terms of lithology, mineralization, alteration, mineralogy, grain size and texture. These observations were recorded on the sample card and later transcribed to an Excel spreadsheet. Handheld GPS devices are accurate to ± 5 m.

Rock samples were placed into woven poly (rice) bags for shipment to the analyzing laboratory. Cable ties were used to securely close the rice bags. Samples were transported by APEX personnel to the ALS geochemistry laboratory in Sudbury, Ontario for preparation. From there, the samples were transported within the ALS network to the ALS geochemistry laboratory in North Vancouver, British Columbia for analysis.

The authors did not have control over the rock samples at all times during transport, and therefore cannot personally verify what happened to the samples from shipping up to the time they were received by ALS. However, the authors have no reason to believe that the security of the samples was compromised in any way during transport or once they entered the ALS chain of custody.

8.3.2 *Sample Preparation and Analysis*

Once received by ALS, the rock samples were logged in to the ALS computerized tracking system, assigned bar code labels and weighed. The samples were then dried and crushed to pass a U.S. Standard No. 10 mesh, or 2 mm screen (70% minimum pass). A

500 g split is taken and pulverized to pass a U.S. Standard No. 200 mesh, or 75 micron screen (85% minimum pass). All rejects were retained for storage.

The prepared samples were analyzed by ALS Geochemistry Methods ME-ICP81 (Cobalt, Copper and Nickel by Sodium Peroxide Fusion and ICP-AES), PGM-ICP23 (Platinum, Palladium and Gold by Fire Assay and ICP-AES, and Ag-AA45 (Silver by Aqua Regia Digestion and AAS). For ME-ICP81, a prepared sample (nominal 0.2 g) is subject to sodium peroxide fusion and analysis by inductively coupled plasma atomic emission spectroscopy (ICP-AES). For PGM-ICP23, a prepared sample (nominal 30 g) is subject to standard lead oxide collection fire assay and analysis by ICP-AES. For Ag-AA45, a prepared sample (nominal 0.5 g) is digested with 75% aqua regia (3:1 ratio of HCl:HNO₃) in a graphite heating block. The solution is then analyzed atomic absorption spectroscopy.

8.3.3 Quality Assurance and Quality Control

For the 2018 rock sampling program, Cruz Cobalt and APEX relied on the internal quality assurance and quality control (QA/QC) measures employed by AGAT laboratories. Quality assurance and quality control (QA/QC) measures at ALS include routine screen tests to verify crushing and pulverizing efficiency, sample preparation duplicates (every 50 samples), and analytical quality controls (blanks, standards, and duplicates). Quality control samples are inserted with each analytical run, with the minimum number of QC samples dependant on the rack size specific to the chosen analytical method. Results for quality control samples that fall beyond the established limits are automatically red-flagged for serious failures and yellow-flagged for borderline results. Every batch of samples is subject to a dual approval and review process, both by the individual analyst and the Department Manager, before final approval and certification. ALS Sudbury is certified with ISO/IEC 17025:2017 and ISO 9001:2015 accreditation from the Standards Council of Canada.

It is the authors' opinion that the sample collection, preparation, security, analytical and QA/QC measures used during the 2018 soil sampling program were adequate for this stage of exploration at the Hector Property.

8.4 2018 Diamond Drilling

8.4.1 Sample Collection and Shipping

Ten NQ diameter diamond drill holes, totalling 843 m, were completed during the 2018 program. Once extracted, drill core was placed in wooden core boxes, sealed with wooden lids and transported to a core logging tent. For each drill hole, geological observations were recorded comprising lithology, mineralization, alteration, veining and structural measurements. Geotechnical data were recorded comprising core recovery, rock quality designation (RQD) and magnetic susceptibility. Down-hole survey directional data was collected using a Reflex EZ-Shot instrument.

A total of 292 drill core intervals were selected and sent for analysis, totalling 320.57 metres of core length. Sample lengths ranged from 0.5 m to 2.0 m, depending on the intensity of visual mineralization and alteration. The average sample length was 1.0 m. The sample intervals were marked out and tagged by APEX geologists, and the core was then photographed. Samples were sawed in half longitudinally using a core saw. For each sample, one half core was sent for analysis and the other was left in the box. Duplicate samples were cut into quarters, where one quarter of the core was used as the “original” sample and the other quarter was used as the “duplicate” sample. The remaining half core was left in the box.

Drill core samples were placed into labelled plastic sample bags along with a sample tag inscribed with the unique sample number. The samples were placed into woven poly (rice) bags for shipment to the analyzing laboratory. Cable ties were used to securely close the rice bags. Samples were transported by APEX personnel to the ALS geochemistry laboratory in Sudbury, Ontario for preparation. From there, the samples were transported within the ALS network to the ALS geochemistry laboratory in North Vancouver, British Columbia for analysis.

The authors did not have control over the drill core samples at all times during transport, and therefore cannot personally verify what happened to the samples from shipping up to the time they were received by ALS. However, the authors have no reason to believe that the security of the samples was compromised in any way during transport or once they entered the ALS chain of custody.

8.4.2 Sample Preparation and Analysis

Once received by ALS, the drill core samples were logged in to the ALS computerized tracking system, assigned bar code labels and weighed. The samples were then dried and crushed to pass a U.S. Standard No. 10 mesh, or 2 mm screen (70% minimum pass). A 500 g split is taken and pulverized to pass a U.S. Standard No. 200 mesh, or 75 micron screen (85% minimum pass). All rejects were retained for storage.

The prepared samples were analyzed by ALS Geochemistry Methods ME-ICP81 (Cobalt, Copper and Nickel by Sodium Peroxide Fusion and ICP-AES), PGM-ICP23 (Platinum, Palladium and Gold by Fire Assay and ICP-AES, and Ag-AA45 (Silver by Aqua Regia Digestion and AAS). For ME-ICP81, a prepared sample (nominal 0.2 g) is subject to sodium peroxide fusion and analysis by inductively coupled plasma atomic emission spectroscopy (ICP-AES). For PGM-ICP23, a prepared sample (nominal 30 g) is subject to standard lead oxide collection fire assay and analysis by ICP-AES. For Ag-AA45, a prepared sample (nominal 0.5 g) is digested with 75% aqua regia (3:1 ratio of HCl:HNO₃) in a graphite heating block. The solution is then analyzed atomic absorption spectroscopy.

8.4.3 Quality Assurance and Quality Control

Quality assurance and quality control (QA/QC) measures at ALS include routine screen tests to verify crushing and pulverizing efficiency, sample preparation duplicates (every

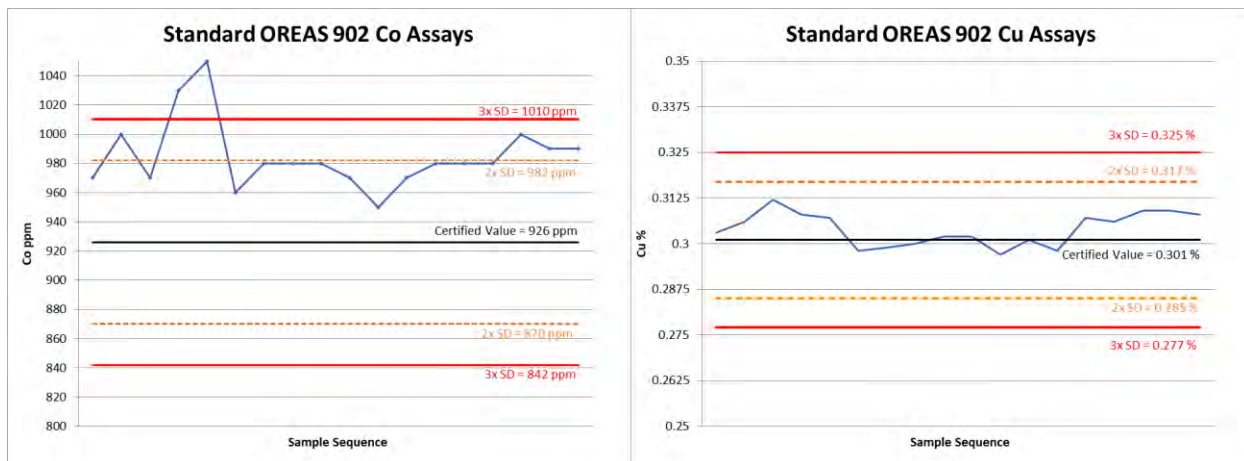
50 samples), and analytical quality controls (blanks, standards, and duplicates). Quality control samples are inserted with each analytical run, with the minimum number of QC samples dependant on the rack size specific to the chosen analytical method. Results for quality control samples that fall beyond the established limits are automatically red-flagged for serious failures and yellow-flagged for borderline results. Every batch of samples is subject to a dual approval and review process, both by the individual analyst and the Department Manager, before final approval and certification. ALS Sudbury is certified with ISO/IEC 17025:2017 and ISO 9001:2015 accreditation from the Standards Council of Canada.

The QA/QC measures employed in the field by APEX during the 2018 diamond drilling programs comprised inserting analytical standards, blanks and duplicate samples into the sample stream, each at an approximate rate of 1 QA/QC sample per 20 samples. Standards and blanks are compared to expected values to ensure the lab results fall within the acceptable margin of error. Similarly, duplicate sample results are compared to originals to test the repeatability of lab results.

Standards

Analytical standards were inserted into the sample stream to verify the accuracy of the laboratory analysis. OREAS 902 Certified Reference Materials (CRMs) were selected for the diamond drilling program. QA/QC summary charts for cobalt and copper are presented in Figure 8.1. The charts indicate the measured values for each standard in addition to the certified value, and the second and third “between laboratory” standard deviation for cobalt (Co) and copper (Cu).

Figure 8.1. QA/QC Analytical Standards (Co and Cu)



There are two general industry standard criteria employed by which standards are assigned a “pass” or “reviewable” status. First, a “reviewable” standard is defined as any standard occurring anywhere in the sample sequence returning a value greater than three standard deviations (>3SD) above or below the accepted value. Second, if two or more consecutive standards from the same batch return values greater than two standard

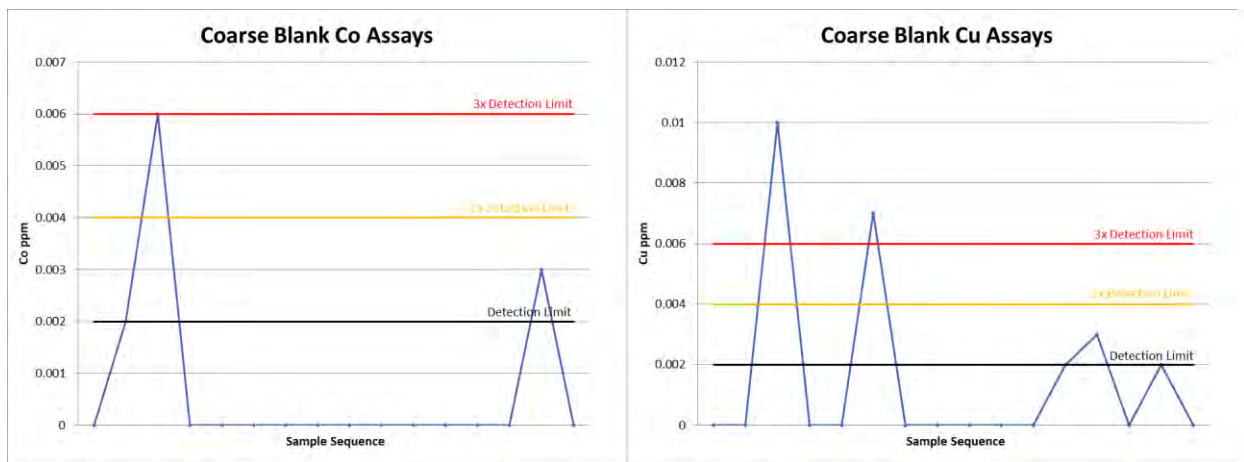
deviations (>2SD) above or below the accepted value on the same side of the mean, they are classified as “reviewable”. QA/QC samples falling outside the established limits are flagged and subject to review and possible re-analysis, along with the 10 preceding and succeeding samples.

A total of 18 standards were inserted into the sample stream of 292 drill core samples. Two samples were initially considered reviewable for returning values >3SD above the certified value for Co, and three samples were initially considered reviewable for returning consecutive values >2SD above the certified value for Co. All other standards were assigned a “pass” status according to the criteria outlined above. Cobalt values were consistently high versus the certified value. This is likely due to the more aggressive digestion and different analytical technique used for the drill core. Because of the consistency of the values and the lack of any major outliers, the results were deemed acceptable. No reviewable samples were observed for copper.

Blanks

Barren coarse material was used for coarse “blank” samples to monitor potential contamination during the sample preparation procedure. Analytical Solutions Ltd. (ASL) coarse silica blanks were used, sourced from Carboniferous sedimentary rocks of the Maritimes Basin in New Brunswick. QA/QC summary charts for the blanks are presented in Figure 8.2. The charts indicate the measured values for each blank in addition to the analytical method detection limit, 2x the detection, and 3x the detection limit for cobalt (Co) and copper (Cu). A blank is considered “reviewable” if it returns a value greater than 3x the detection limit of the analytical method.

Figure 8.2. QA/QC Blank Samples (Co and Cu)

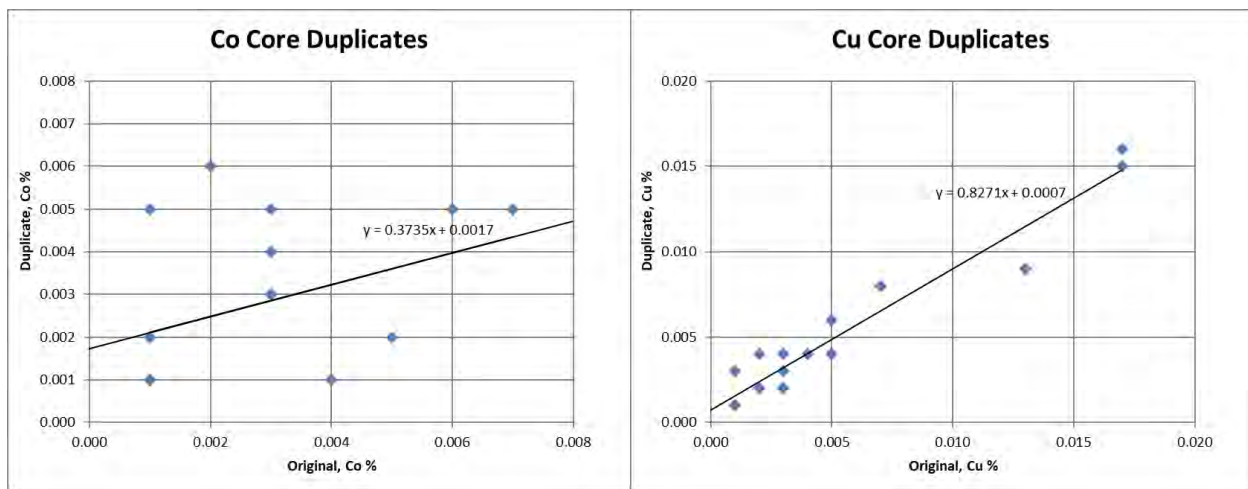


A total of 16 blanks were inserted into the sample stream of 292 drill core samples. Two samples were initially considered reviewable for returning values greater than 3x the detection limit for Cu. Upon review, the results were deemed to be acceptable. All other blanks were assigned a “pass” status according to the criteria outlined above.

Duplicates

Duplicate (quartered drill core) samples were collected to assess the repeatability of individual analytical values. A total of 17 duplicate samples were collected and analyzed. Figure 8.3 shows the original versus duplicate core duplicate values for cobalt (Co) and copper (Cu). The results indicate a good overall repeatability of the copper values. This is interpreted to indicate a low “nugget” effect with respect to copper analysis. Excluding primary geological heterogeneity (quarter-core), the data show a homogenous distribution of copper values within the Hector drill core. There is a higher “nugget” effect indicated by the cobalt values.

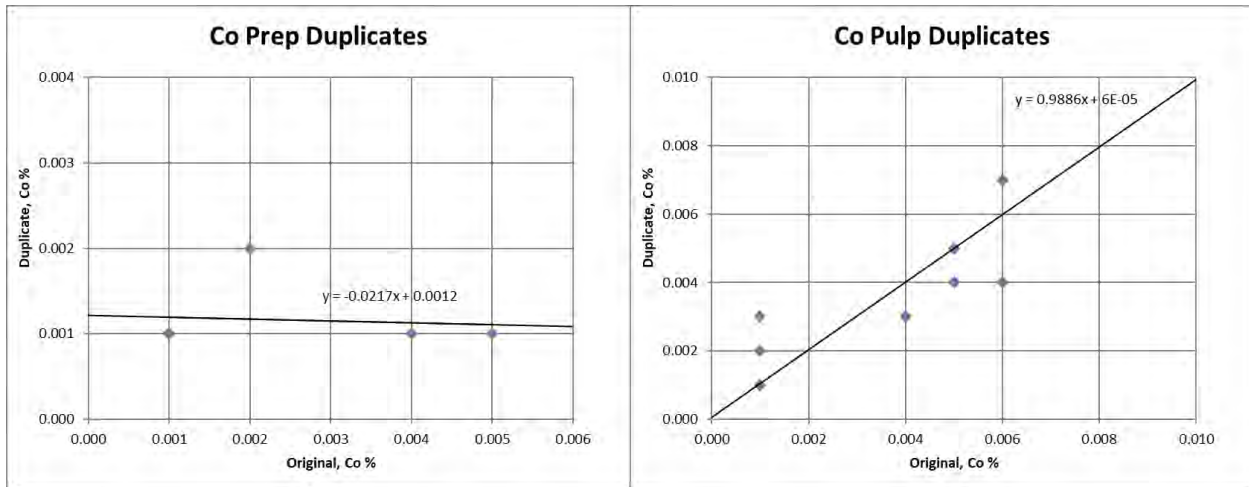
Figure 8.3. QA/QC Quartered Core Duplicate Samples (Co and Cu)



As part of their internal QA/QC program, ALS completed routine re-analysis of prep (coarse reject) and pulp duplicates to monitor precision. Only the prep and pulp duplicates for the 2018 soil sampling program are available. ALS analyzed a total of 6 prep duplicates and 9 pulp duplicates for cobalt, for a total of 15 prep/pulp duplicates analyzed. Figure 8.4 shows the original versus duplicate prep and pulp values for cobalt (Co).

It is the authors' opinion that the sample collection, preparation, security, analytical and QA/QC measures used during the 2018 soil sampling program were adequate for this stage of exploration at the Hector Property.

Figure 8.4. QA/QC Prep and Pulp Duplicate Samples (Co and Cu)



9 Exploration Expenditures

The 2017 Hector Property exploration program was completed between October 25th and November 3rd, 2017. The 2018 exploration program was completed in three phases between July 24th and December 19th, 2018. The total cost to complete the exploration programs was \$337,200.93. Table 9.1 provides a summary of the exploration expenditures incurred at the Hector Property in 2017 and 2018. A detailed breakdown of the expenditures is provided in Appendix 1.

Table 9.1. Summary of 2017 and 2018 Hector Property Exploration Expenditures

| Program | Days Worked | Associated Costs | Survey Costs | Total Cost |
|--------------|-------------|------------------|--------------|--------------|
| 2017 Program | 10 | \$16,082.00 | \$13,000.00 | \$29,082.00 |
| 2018 Phase 1 | 19 | \$32,452.59 | \$24,912.50 | \$57,365.09 |
| 2018 Phase 2 | 2 | \$4,874.40 | \$3,250.00 | \$8,124.40 |
| 2018 Phase 3 | 53 | \$92,137.19 | \$150,492.25 | \$242,629.44 |
| Total | 84 | \$145,546.18 | \$191,654.75 | \$337,200.93 |

10 Interpretation and Conclusions

The Hector Property is an early stage exploration project with historical development and small-scale production from the 1920s and early 1930s targeting silver and cobalt. The Property is located within the Cobalt Embayment, associated with the structurally significant Montreal River fault system. The Cobalt Embayment is recognized for occurrences of, and potential to host additional arsenide Ag-Co vein deposits.

The work that was completed during 2017 and 2018 evaluated and confirmed the exploration potential in the vicinity of Bass Lake, the Hector Silver Mine and the James Dolan historic mineral occurrences. In drill core, mineralization appears to be preferentially hosted in altered and sulphidized rock adjacent to mineralized veins. As a result, anomalous cobalt and copper values strongly correspond to strong carbonate \pm chlorite \pm silica \pm potassic \pm erythrite alteration and/or veining \pm malachite staining of the host diabase with pyrite-chalcopyrite-cobalt arsenate sulphides.

Favourable target areas on the Property include the South Keora, Kevin Lake, Williamson and Brewster mineral occurrences, and contacts with and under the Nipissing Sill located in all areas of the Hector Property. Drilling through more central portions of the sill requires additional information on sill thickness, and the potential utilization of deep EM techniques prior to finalizing additional drill targets.

The anomalous trends that have been identified through the soil and rock geochemistry, ground geophysical surveys and drill testing of targets shows distinct northwest-southeast trending anomalies coincident with the strike of the Montreal River fault located to the southwest of the focus of exploration. A better understanding of the local and regional structural controls is necessary to target additional silver-cobalt mineralization at the Property. Future work should include detailed geological, alteration and structural mapping, soil and rock geochemistry over additional zones of interest, additional data compilation and modelling, and drilling of favorable targets.

11 Recommendations

Results to date indicate that further work is warranted at the Hector Property. Recommended areas for further exploration activities are Brewster, Kelvin Lake and Williamson. All three have limited exploration but have recorded cobalt mineralization with exploration shafts at Brewster and Williamson.

Detailed geological mapping and geochemical surveys should be completed, focusing on the unconformable contacts of the Archean and Paleoproterozoic country rocks with the Nipissing diabase, previously identified geochemical and geophysical anomalies, and along strike of historical mineral occurrences. Geophysical and geochemical surveys should also be completed at the underexplored South Keora occurrence. Follow-up exploration drilling could be completed should any high-priority targets be identified.

If early stage exploration groundwork results are favorable, drill testing exploration targets in the central and southern portions of the Hector Property should be considered. Prior to drilling, a detailed geological, alteration and structural review, followed up by reconnaissance geochemical surveys is recommended. It is important to understand the geometry of the lithologies encountered to properly evaluate the thicknesses of the Nipissing diabase bodies and depth to the Proterozoic/Huronian-Archean unconformity.

For 2019, APEX recommends a 30-day exploration program comprising geological mapping, ground magnetics, and rock and soil geochemical surveys. The program could be completed by 4 APEX personnel at a total estimated cost of \$113,025.

Table 11.1. Proposed 2019 Hector Property Exploration Budget

| Budget Item | Cost |
|---|-----------|
| APEX Personnel | \$60,000 |
| Accommodation / Food / Travel | \$20,000 |
| Rentals (geophysical equipment, trucks, software, etc.) | \$4,500 |
| Analytical (250 soils, 50 rocks) | \$10,000 |
| Miscellaneous Fuel and Field Supplies | \$1,750 |
| Office and Logistics | \$1,500 |
| Data Processing and modelling | \$2,500 |
| Data Management and Reporting | \$2,500 |
| Subtotal | \$102,750 |
| 10% Contingency | \$10,275 |
| TOTAL (not including GST) | \$113,025 |

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13 Certificate of Author

13.1 Kristopher Raffle Certificate of Author

I, Kristopher Raffle, P.Ge., residing in Vancouver, British Columbia, do hereby certify that:

1. I am a Principal and Consultant of APEX Geoscience Ltd., located at 410-800 West Pender Street, Vancouver, British Columbia, Canada.
2. I am the author and responsible for all the sections of the report entitled “**2018 Assessment Report on the Hector Property**”, dated April 24th, 2019 (the “Assessment Report”).
3. I am a graduate of The University of British Columbia, Vancouver, British Columbia with a B.Sc. in Geology in 2000 and have practiced my profession continuously since 2000.
4. I am a Professional Geologist (P.Ge.) registered with Engineers and Geoscientists of British Columbia, and I am a ‘Qualified Person’ in relation to the subject matter of this Report.
5. To the best of my knowledge, information and belief, the Assessment Report contains all scientific and technical information that is required to make the Assessment Report not misleading.
6. I consent to the filing of the Assessment Report with the regulatory authority and any publication by them for regulatory purposes, including electronic publication in the public company files or their websites.

Dated this 24th of April 2019
Vancouver, British Columbia, Canada

“Signed”

Kristopher Raffle, B.Sc., P.Ge.

13.2 Mohamad Asmail Certificate of Author

I, Mohamad Asmail, M.Sc., residing in Burnaby, British Columbia, do hereby certify that:

1. I am a Geologist of APEX Geoscience Ltd., located at 410-800 West Pender Street, Vancouver, British Columbia, Canada.
2. I am the author and responsible for all the sections of the report entitled “**2018 Assessment Report on the Hector Property**”, dated April 24th, 2019 (the “Assessment Report”).
3. I am a graduate of The University of Western Ontario, London, Ontario with a B.Sc. in Earth Sciences in 2012 and a M.Sc. in Earth Sciences in 2018. I have worked as an exploration geologist for 3 years.
4. To the best of my knowledge, information and belief, the Assessment Report contains all scientific and technical information that is required to make the Assessment Report not misleading.
5. I consent to the filing of the Assessment Report with the regulatory authority and any publication by them for regulatory purposes, including electronic publication in the public company files or their websites.

Dated this 24th of April 2019
Vancouver, British Columbia, Canada

“Signed”

Mohamad Asmail, M.Sc.

13.3 Robyn Christian Certificate of Author

I, Robyn Christian, G.I.T., residing in Vancouver, British Columbia, do hereby certify that:

1. I am a Geologist of APEX Geoscience Ltd., located at 410-800 West Pender Street, Vancouver, British Columbia, Canada.
2. I am the author and responsible for Section 9 and Appendix 1 of the report entitled **“2018 Assessment Report on the Hector Property”**, dated April 24th, 2019 (the “Assessment Report”).
3. I am a graduate of Simon Fraser University, Burnaby, British Columbia with a B.Sc. in Geology in 2014 and have practiced my profession continuously since 2014.
4. I am a Geoscientist in Training (G.I.T.) registered with Engineers and Geoscientists of British Columbia, and I am a ‘Qualified Person’ in relation to the subject matter of this Report.
5. To the best of my knowledge, information and belief, the Assessment Report contains all scientific and technical information that is required to make the Assessment Report not misleading.
6. I consent to the filing of the Assessment Report with the regulatory authority and any publication by them for regulatory purposes, including electronic publication in the public company files or their websites.

Dated this 24th of April 2019
Vancouver, British Columbia, Canada

“Signed”

Robyn Christian, B.Sc., G.I.T.

Appendix 1. 2017 and 2018 Personnel and Exploration Expenditures

2017 Soil Program

| <u>Date</u> | <u>Num</u> | <u>Description</u> | <u>Amount</u> |
|-----------------------------------|------------|--|--------------------------|
| Geological field work | | | |
| 10-19-2017 | 0102 | Hector Soil Sample Programme Crew Advance Payment | \$3,000.00 |
| 11-09-2017 | 0103 | Hector Soil Sample Programme Crew Payment | \$10,000.00 |
| | | Total Geological field work | \$13,000.00 |
| Geological office work | | | |
| 10-31-2017 | 20171031 | Antediluvial Hector Soil Sample Programme | \$2,600.00 |
| | | Total Geological office work | \$2,600.00 |
| Assays & related costs | | | |
| 01-15-2018 | 18444702M | AGAT Laboratories: assay analysis, work order 17T282580, Nov 10, 2017, inv 18444702M | \$2,268.00 |
| 01-15-2018 | 18444694M | AGAT Laboratories: assay analysis, work order 17T282581, Nov 10, 2017, inv 18444694M | \$2,268.00 |
| 01-15-2018 | 18444707M | AGAT Laboratories: assay analysis, work order 17T282583, Nov 10, 2017, inv 18444707M | \$2,268.00 |
| 01-18-2018 | 18445552M | AGAT Laboratories: assay analysis, work order 17T282584, Nov 10, 2017, inv 18445552M | \$2,268.00 |
| 01-15-2018 | 18444704M | AGAT Laboratories: assay analysis, work order 17T282585, Nov 10, 2017, inv 18444704M | \$2,268.00 |
| 01-15-2018 | 18444684M | AGAT Laboratories: assay analysis, work order 17T282586, Nov 10, 2017, inv 18444684M | \$2,142.00 |
| | | Total Assays & related costs | \$13,482.00 |
| Total Expenditures | | | Total \$29,082.00 |

2018 Phase 1

| <u>Date</u> | <u>Num</u> | <u>Description</u> | <u>Amount</u> |
|---|------------|--|--------------------|
| Geological field work | | | |
| 08-31-2018 | 2018-376 | Party Leader Geological Services Field - Katelynn Brown (July 22-Aug 21/18) | \$10,250.00 |
| 08-31-2018 | 2018-376 | Geological Services Performed Field - Kaylyn Neimetz (July 22-Aug 21/18) | \$8,712.50 |
| 08-31-2018 | 2018-376 | Geological Services Performed Field - Karys Leonard-Fortune (July 22-Aug 21/18) | \$5,950.00 |
| | | Total Geological field work | <u>\$24,912.50</u> |
| Geological office work | | | |
| 08-31-2018 | 2018-376 | Geological Services Performed Office - Robyn Christian (May 22-June 21/18) | \$520.00 |
| 08-31-2018 | 2018-376 | Geological Services Performed Office - Kris Raffle (May 22-June 21/18) | \$320.00 |
| 08-31-2018 | 2018-376 | Geological Services Performed Office - Dallas Smolski (May 22-June 21/18) | \$825.00 |
| 08-31-2018 | 2018-376 | Geological Services Performed Office - Rob L'Heureux (May 22-June 21/18) | \$344.00 |
| 08-31-2018 | 2018-376 | Geological Services Performed Office - Robyn Christian (June 22-July 21/18) | \$40.00 |
| 08-31-2018 | 2018-376 | Geological Services Performed Office - Dallas Smolski (June 22-July 21/18) | \$236.50 |
| 08-31-2018 | 2018-376 | Geological Services Performed Office - Kris Raffle (June 22-July 21/18) | \$960.00 |
| 08-31-2018 | 2018-376 | Geological Services Performed Office - Kris Raffle (July 22-Aug 21/18) | \$1,496.00 |
| 08-31-2018 | 2018-376 | Geological Services Performed Office - Mark Hanki (July 22-Aug 21/18) | \$690.00 |
| 08-31-2018 | 2018-376 | Geological Services Performed Office - Karys Leonard-Fortune (July 22-Aug 21/18) | \$159.00 |
| 08-31-2018 | 2018-376 | Geological Services Performed Office - Katelynn Brown (July 22-Aug 21/18) | \$542.75 |
| 08-31-2018 | 2018-376 | Geological Services Performed Office - Robyn Christian (July 22-Aug 21/18) | \$188.00 |
| 08-31-2018 | 2018-376 | Geological Services Performed Office - Kaylyn Niemetz (July 22-Aug 21/18) | \$60.00 |
| 09-30-2018 | 2018-443 | Geological Services Performed Office - Tara Gunson (Aug 22-Sept 21/18) | \$68.25 |
| 09-30-2018 | 2018-443 | Geological Services Performed Office - Kris Raffle (Aug 22-Sept 21/18) | \$1,384.00 |
| 09-30-2018 | 2018-443 | Geological Services Performed Office - Robyn Christian (Aug 22-Sept 21/18) | \$148.00 |
| 09-30-2018 | 2018-443 | Geological Services Performed Office - Taylor Milne (Aug 22-Sept 21/18) | \$802.75 |
| 11-30-2018 | 2018-562 | Geological Services Performed Office - Mark Hanki (Oct 22-Nov 21/18) | \$155.25 |
| 12-31-2018 | 2018-621 | Geological Services Performed Office - Mark Hanki (Nov 22-Dec 21/18) | \$40.25 |
| 12-31-2018 | 2018-621 | Geological Services Performed Office - Taylor Milne (Nov 22-Dec 21/18) | \$42.25 |
| | | Total Geological office work | <u>\$9,022.00</u> |
| Overhead & management fee | | | |
| 08-31-2018 | 2018-376 | Operator's overhead and management fee (10%) | \$1,665.51 |
| 09-30-2018 | 2018-443 | Operator's overhead and management fee (10%) | \$39.15 |
| | | Total Overhead & management fee | <u>\$1,704.66</u> |
| Rentals & other project income | | | |
| 08-31-2018 | 2018-376 | APEX rental - GPS walking magnetometer (2 weeks @ \$1,040/wk) | \$2,080.00 |
| 08-31-2018 | 2018-376 | APEX rental - base magnetometer (2 weeks @ \$595/wk) | \$1,190.00 |
| 08-31-2018 | 2018-376 | APEX rental - laptop (3 weeks @ \$150/wk) | \$450.00 |
| 08-31-2018 | 2018-376 | APEX rental - 3 radios (3 weeks @ \$90/wk) | \$270.00 |
| 08-31-2018 | 2018-376 | APEX rental - 3 data loggers (3 weeks @ \$90/wk) | \$270.00 |
| 08-31-2018 | 2018-376 | APEX rental - geosoft software (1 week) | \$500.00 |
| | | Total Rentals & other project income | <u>\$4,760.00</u> |
| Assays & related costs | | | |
| 08-31-2018 | 2018-376 | ALS Canada: assay analysis, certificate SD18196580, Aug 29/18, inv 4406647 | \$1,641.40 |
| 08-31-2018 | 2018-376 | ALS Canada: assay analysis, certificate SD18197526, Aug 31/18, inv 4406661 | \$5,043.63 |
| | | Total Assays & related costs | <u>\$6,685.03</u> |
| Field supplies | | | |
| 08-31-2018 | 2018-376 | Katelynn Brown: supplies, July 30-Aug 6/18 | \$147.37 |
| | | Total Field supplies | <u>\$147.37</u> |
| Freight - other | | | |
| 09-30-2018 | 2018-443 | FedEx: courier, waybill 063710310008441, Aug 10/18, inv 2-360-20778 | \$87.35 |
| 09-30-2018 | 2018-443 | FedEx: courier, waybill 063710310008458, Aug 10/18, inv 2-360-20778 | \$67.59 |
| 09-30-2018 | 2018-443 | FedEx: courier, waybill 063710310008465, Aug 10/18, inv 2-360-20778 | \$108.45 |
| 09-30-2018 | 2018-443 | FedEx: courier, waybill 063710310008472, Aug 10/18, inv 2-360-20778 | \$90.53 |
| 09-30-2018 | 2018-443 | FedEx: courier, waybill 063710310008489, Aug 10/18, inv 2-360-20778 | \$37.62 |
| | | Total Freight - other | <u>\$391.54</u> |
| Rental - automotive | | | |
| 08-31-2018 | 2018-376 | Katelynn Brown: truck rental, July 24-Aug 11/18 | \$2,677.12 |
| | | Total Rental - automotive | <u>\$2,677.12</u> |

Travel - accomodations

| | | | |
|------------------------------|----------|---|------------|
| 08-31-2018 | 2018-376 | Katelynn Brown: accommodations, July 23-Aug 11/18 | \$1,425.00 |
| 08-31-2018 | 2018-376 | Kaylyn Niemetz: hotel, Sudbury, Aug 10-11/18 | \$281.20 |
| | | | <hr/> |
| Total Travel - accomodations | | | \$1,706.20 |

Travel - airfare

| | | | |
|------------------------|----------|---|------------|
| 08-31-2018 | 2018-376 | Vision Travel Solutions: airfare, Katelynn Brown, Sudbury/Edmonton, Aug 11/18, inv 4342233 | \$823.12 |
| 08-31-2018 | 2018-376 | Vision Travel Solutions: airfare, Karys Leonard-Fortune, Sudbury/Edmonton, Aug 11/18, inv 4342233 | \$823.12 |
| 08-31-2018 | 2018-376 | Vision Travel Solutions: airfare, Kaylyn Niemetz, Sudbury/Edmonton, Aug 11/18, inv 4342233 | \$823.12 |
| 08-31-2018 | 2018-376 | Karys Leonard-Fortune: excess baggage fee, July 29-Aug 11/18 | \$265.00 |
| | | | <hr/> |
| Total Travel - airfare | | | \$2,734.36 |

Travel - food

| | | | |
|---------------------|----------|---|------------|
| 08-31-2018 | 2018-376 | Karys Leonard-Fortune: food, July 30-Aug 9/18 | \$415.82 |
| 08-31-2018 | 2018-376 | Katelynn Brown: food, July 23-Aug 10/18 | \$750.07 |
| 08-31-2018 | 2018-376 | Kaylyn Niemetz: food, July 25-Aug 11/18 | \$1,137.83 |
| | | | <hr/> |
| Total Travel - food | | | \$2,303.72 |

Travel - fuel

| | | | |
|---------------------|----------|---|----------|
| 08-31-2018 | 2018-376 | Katelynn Brown: fuel, July 24-Aug 10/18 | \$222.41 |
| 08-31-2018 | 2018-376 | Kaylyn Niemetz: fuel, July 30-Aug 2/18 | \$98.18 |
| | | | <hr/> |
| Total Travel - fuel | | | \$320.59 |

Total Expenditures**Total** **\$57,365.09**

2018 Phase 2

| <u>Date</u> | <u>Num</u> | <u>Description</u> | <u>Amount</u> |
|--------------------------------------|------------|--|---------------------------------------|
| Geological field work | | | |
| 10-31-2018 | 2018-505 | Geological Services Performed Field - Mo Asmail (Sept 22-Oct 21/18) | \$1,250.00 |
| 10-31-2018 | 2018-505 | Geological Services Performed Field - Kris Raffle (Sept 22-Oct 21/18) | \$2,000.00 |
| | | Total Geological field work | <u>\$3,250.00</u> |
| Geological office work | | | |
| 10-31-2018 | 2018-505 | Geological Services Performed Office - Kris Raffle (Sept 22-Oct 21/18) | \$1,280.00 |
| 10-31-2018 | 2018-505 | Geological Services Performed Office - Mo Asmail (Sept 22-Oct 21/18) | \$251.25 |
| 10-31-2018 | 2018-505 | Geological Services Performed Office - Yuliana Bui (Sept 22-Oct 21/18) | \$153.00 |
| | | Total Geological office work | <u>\$1,684.25</u> |
| Overhead & management fee | | | |
| 10-31-2018 | 2018-505 | Operator's overhead and management fee (10%) | \$263.71 |
| | | Total Overhead & management fee | <u>\$263.71</u> |
| Assays & related costs | | | |
| 10-31-2018 | 2018-505 | ALS Canada: assay analysis, certificate SD18249803, Oct 21/18, inv 4477345 | \$947.94 |
| | | Total Assays & related costs | <u>\$947.94</u> |
| Rental - automotive | | | |
| 11-30-2018 | 2018-562 | Kris Raffle: car rental, Oct 1-3/18 | \$188.01 |
| | | Total Rental - automotive | <u>\$188.01</u> |
| Travel - accomodations | | | |
| 11-30-2018 | 2018-562 | Kris Raffle: hotel, Sudbury, Oct 1-2/18 | \$145.59 |
| 12-31-2018 | 2018-621 | Mo Asmail: hotel, New Liskeard ON, Oct 1-3/18 | \$276.00 |
| | | Total Travel - accomodations | <u>\$421.59</u> |
| Travel - airfare | | | |
| 10-31-2018 | 2018-505 | Vision Travel Solutions: airfare, Mo Asmail, Vancouver/Sudbury/London, Oct 1, 5/18, inv 4349552 | \$431.12 |
| 10-31-2018 | 2018-505 | Vision Travel Solutions: airfare, Kris Raffle, Vancouver/Sudbury (ret), Oct 1, 5/18, inv 4349553 | \$569.63 |
| 11-30-2018 | 2018-562 | Kris Raffle: excess baggage fee, Mo Asmail, Oct 5/18 | \$155.00 |
| | | Total Travel - airfare | <u>\$1,155.75</u> |
| Travel - food | | | |
| 11-30-2018 | 2018-562 | Kris Raffle: food, Oct 1-3/18 | \$173.45 |
| | | Total Travel - food | <u>\$173.45</u> |
| Travel - fuel | | | |
| 11-30-2018 | 2018-562 | Kris Raffle: fuel, Oct 3/18 | \$39.70 |
| | | Total Travel - fuel | <u>\$39.70</u> |
| Total Expenditures | | | Total <u>\$8,124.40</u> |

2018 Phase 3

| <u>Date</u> | <u>Num</u> | <u>Description</u> | <u>Amount</u> |
|---|------------|---|---------------|
| Geological field work | | | |
| 11-30-2018 | 2018-562 | Geological Services Performed Field - Mo Asmail (Oct 22-Nov 21/18) | \$8,500.00 |
| 11-30-2018 | 2018-562 | Geological Services Performed Field - Abhishek Warriar (Oct 22-Nov 21/18) | \$8,075.00 |
| 12-31-2018 | 2018-621 | Geological Services Performed Field - Mo Asmail (Nov 22-Dec 21/18) | \$14,000.00 |
| 12-31-2018 | 2018-621 | Geological Services Performed Field - Abhishek Warriar (Nov 22-Dec 21/18) | \$13,300.00 |
| 12-15-2018 | 16VDS143 | Drilling Services Performed Field - Vital Drilling (Nov 10 - Dec 8/18) | \$106,617.25 |
| Total Geological field work | | | \$150,492.25 |
| Geological office work | | | |
| 11-30-2018 | 2018-562 | Geological Services Performed Office - Rob L'Heureux (Oct 22-Nov 21/18) | \$216.00 |
| 11-30-2018 | 2018-562 | Geological Services Performed Office - Kris Raffle (Oct 22-Nov 21/18) | \$3,200.00 |
| 11-30-2018 | 2018-562 | Geological Services Performed Office - Abhishek Warriar (Oct 22-Nov 21/18) | \$195.00 |
| 11-30-2018 | 2018-562 | Geological Services Performed Office - Mo Asmail (Oct 22-Nov 21/18) | \$251.25 |
| 11-30-2018 | 2018-562 | Geological Services Performed Office - Robyn Christian (Oct 22-Nov 21/18) | \$280.00 |
| 11-30-2018 | 2018-562 | Geological Services Performed Office - Yuliana Bui (Oct 22-Nov 21/18) | \$1,305.00 |
| 11-30-2018 | 2018-562 | Geological Services Performed Office - Kaylyn Niemetz (Oct 22-Nov 21/18) | \$600.00 |
| 12-31-2018 | 2018-621 | Geological Services Performed Office - Kaylyn Niemetz (Nov 22-Dec 21/18) | \$219.00 |
| 12-31-2018 | 2018-621 | Geological Services Performed Office - Robyn Christian (Nov 22-Dec 21/18) | \$2,972.00 |
| 12-31-2018 | 2018-621 | Geological Services Performed Office - Yuliana Bui (Nov 22-Dec 21/18) | \$2,673.00 |
| 12-31-2018 | 2018-621 | Geological Services Performed Office - Kris Raffle (Nov 22-Dec 21/18) | \$1,816.00 |
| 12-31-2018 | 2018-621 | Geological Services Performed Office - Shannon Frey (Nov 22-Dec 21/18) | \$595.00 |
| 01-31-2019 | 2019-019 | Geological Services Performed Office - Mo Asmail (Dec 22-31/18) | \$198.75 |
| 01-31-2019 | 2019-019 | Geological Services Performed Office - Yuliana Bui (Jan 1-21/19) | \$238.50 |
| 01-31-2019 | 2019-019 | Geological Services Performed Office - Mo Asmail (Jan 1-21/19) | \$300.00 |
| 01-31-2019 | 2019-019 | Geological Services Performed Office - Shannon Frey (Jan 1-21/19) | \$4,054.50 |
| 01-31-2019 | 2019-019 | Geological Services Performed Office - Kris Raffle (Jan 1-21/19) | \$480.00 |
| 01-31-2019 | 2019-019 | Geological Services Performed Office - Alfonso Rodriguez Madrid (Jan 1-21/19) | \$480.25 |
| 01-31-2019 | 2019-019 | Geological Services Performed Office - Rob L'Heureux (Jan 1-21/19) | \$160.00 |
| 02-28-2019 | 2019-069 | Geological Services Performed Office - Yuliana Bui (Jan 22-Feb 21/19) | \$688.50 |
| 02-28-2019 | 2019-069 | Geological Services Performed Office - Shannon Frey (Jan 22-Feb 21/19) | \$6,035.00 |
| 02-28-2019 | 2019-069 | Geological Services Performed Office - Kris Raffle (Jan 22-Feb 21/19) | \$1,064.00 |
| 02-28-2019 | 2019-069 | Geological Services Performed Office - Robyn Christian (Jan 22-Feb 21/19) | \$108.00 |
| 03-31-2019 | 2019-121 | Geological Services Performed Office - Shannon Frey (Feb 22-March 21/19) | \$7,025.25 |
| 03-31-2019 | 2019-121 | Geological Services Performed Office - Yuliana Bui (Feb 22-March 21/19) | \$4,230.00 |
| 03-31-2019 | 2019-121 | Geological Services Performed Office - Robyn Christian (Feb 22-March 21/19) | \$1,317.50 |
| 03-31-2019 | 2019-121 | Geological Services Performed Office - Kris Raffle (Feb 22-March 21/19) | \$856.00 |
| Total Geological office work | | | \$41,558.50 |
| Overhead & management fee | | | |
| 11-30-2018 | 2018-562 | Operator's overhead and management fee (10%) | \$132.57 |
| 12-31-2018 | 2018-621 | Operator's overhead and management fee (10%) | \$2,090.25 |
| 12-31-2018 | 2018-621 | Project management fee | \$5,000.00 |
| 01-31-2019 | 2019-019 | Operator's overhead and management fee (10%) | \$135.23 |
| Total Overhead & management fee | | | \$7,358.05 |
| Rentals & other project income | | | |
| 11-30-2018 | 2018-562 | APEX rental - portable XRF (1 week) | \$1,340.00 |
| 11-30-2018 | 2018-562 | APEX rental - laptop (2 weeks) | \$300.00 |
| 12-31-2018 | 2018-621 | APEX rental - magnetic susceptibility meter (1 month) | \$565.00 |
| 12-31-2018 | 2018-621 | APEX rental - laptop (1 month) | \$565.00 |
| Total Rentals & other project income | | | \$2,770.00 |
| Assays & related costs | | | |
| 12-31-2018 | 2018-621 | Mo Asmail: standards, Nov 13/18 | \$145.00 |
| 12-27-2018 | 4584608 | ALS Canada: assay analysis, certificate SD18330092, Dec 27/18, inv 4584608 | \$48.90 |
| 01-08-2019 | 4603128 | ALS Canada: assay analysis, certificate SD19009890, Jan 15/19, inv 4582387 | \$17,957.74 |
| Total Assays & related costs | | | \$18,151.64 |
| Field supplies | | | |
| 10-31-2018 | 2018-505 | ALS Canada: supplies, sample bags & tags, Oct 29/18, inv 4503109 | \$89.77 |
| 12-31-2018 | 2018-621 | Mo Asmail: supplies, Oct 27-Dec 30/18 | \$2,024.21 |

| | | | |
|-------------------------------|----------|---|---|
| 12-31-2018 | 2018-621 | Abhishek Warriar: supplies, Oct 29-Nov 16/18 | \$120.96 |
| 01-31-2019 | 2019-019 | Mo Asmail: supplies, Oct 29-Nov 22/18 | \$153.74 |
| | | Total Field supplies | <u>\$2,388.68</u> |
| Freight - other | | | |
| 11-30-2018 | 2018-562 | FedEx: courier, waybill 773592139940, Oct 29/18, inv 2-366-68280 | \$96.49 |
| 12-31-2018 | 2018-621 | FedEx: courier, waybill 773723804274, Nov 15/18, inv 2-370-41252 | \$33.04 |
| 01-31-2019 | 2019-019 | FedEx: courier, waybill 812533924974, Dec 3/18, inv 2-374-52424 | \$81.53 |
| 01-31-2019 | 2019-019 | FedEx: courier, waybill 773953038717, Dec 12/18, inv 2-374-52424 | \$127.40 |
| | | Total Freight - other | <u>\$338.46</u> |
| Rental - automotive | | | |
| 12-31-2018 | 2018-621 | Mo Asmail: truck rental, Oct 29-Nov 28/18 | \$1,767.40 |
| 12-31-2018 | 2018-621 | Mo Asmail: truck rental, Dec 14-18/18 | \$205.36 |
| 01-31-2019 | 2019-019 | Mo Asmail: truck rental, Nov 28-Dec 20/18 | \$1,289.60 |
| | | Total Rental - automotive | <u>\$3,262.36</u> |
| Rental - buildings | | | |
| 12-31-2018 | 2018-621 | Blackstone Development: core shack rental, 2 weeks, Dec 11/18, inv 2018-25 | \$500.00 |
| | | Total Rental - buildings | <u>\$500.00</u> |
| Rental - equipment | | | |
| 12-31-2018 | 2018-621 | Reflex: APS with charger rental, Dec 1-31/18, inv 61402 | \$775.00 |
| 12-31-2018 | 2018-621 | Mo Asmail: equipment rental, APS with charger, Nov 13-30/18 | \$465.00 |
| 01-31-2019 | 2019-019 | Reflex: APS with charger rental credit, inv 4796 | -\$300.00 |
| | | Total Rental - equipment | <u>\$940.00</u> |
| Subcontract other | | | |
| 12-31-2018 | 2018-621 | Mo Asmail: subcontract services, core cutter, Dec 17/18 | \$600.00 |
| | | Total Subcontract other | <u>\$600.00</u> |
| Travel - accomodations | | | |
| 12-31-2018 | 2018-621 | Mo Asmail: hotel, Haileybury ON, Nov 6-30/18 | \$3,304.00 |
| 12-31-2018 | 2018-621 | Mo Asmail: hotel, New Liskeard ON, Dec 1-19/18 | \$3,024.00 |
| 12-31-2018 | 2018-621 | Abhishek Warriar: hotel, Toronto, Oct 28-29/18 | \$67.08 |
| | | Total Travel - accomodations | <u>\$6,395.08</u> |
| Travel - airfare | | | |
| 10-31-2018 | 2018-505 | Vision Travel Solutions: airfare, Abhishek Warriar, Calgary/Toronto/Sudbury, Oct 28, 29/18, inv ... | \$403.62 |
| 10-31-2018 | 2018-505 | Vision Travel Solutions: airfare, Mo Asmail, London/Sudbury, Oct 29/18, inv 4353694 | \$195.06 |
| 12-31-2018 | 2018-621 | Vision Travel Solutions: airfare, Abhishek Warriar, Toronto/Calgary, Dec 19/18, inv 4359958 | \$637.82 |
| 12-31-2018 | 2018-621 | Mo Asmail: excess baggage fee, Oct 3-Dec 19/18 | \$152.50 |
| 12-31-2018 | 2018-621 | Abhishek Warriar: excess baggage fee, Oct 29/18 | \$150.00 |
| | | Total Travel - airfare | <u>\$1,539.00</u> |
| Travel - food | | | |
| 12-31-2018 | 2018-621 | Mo Asmail: food, Nov 3-20/18 | \$1,690.44 |
| 12-31-2018 | 2018-621 | Mo Asmail: food, Nov 21-Dec 6/18 | \$1,472.25 |
| 12-31-2018 | 2018-621 | Mo Asmail: food, Dec 7-19/18 | \$1,000.44 |
| 12-31-2018 | 2018-621 | Abhishek Warriar: food, Oct 28-Dec 19/18 | \$121.76 |
| | | Total Travel - food | <u>\$4,284.89</u> |
| Travel - fuel | | | |
| 12-31-2018 | 2018-621 | Mo Asmail: fuel, Oct 29-Dec 20/18 | \$1,955.36 |
| 12-31-2018 | 2018-621 | Abhishek Warriar: fuel, Oct 29-Nov 3/18 | \$95.17 |
| | | Total Travel - fuel | <u>\$2,050.53</u> |
| Total Expenditures | | | Total <u><u>\$242,629.44</u></u> |

Appendix 2. Sample Descriptions and Drill Logs

2017 Soil Sample Descriptions

2018 Soil Sample Descriptions

2018 Rock Sample Descriptions

2018 Diamond Drill Logs

2017 Soil Sample Descriptions

| Sample ID | Date | East N83 Z17 | North N83 Z17 | Elevation | Ground Cover | Site Vegetation | Landform | Depth (cm) | Horizon | Sample Colour | Thickness (cm) | Sampler* | Comments |
|-----------|------------|--------------|---------------|-----------|------------------------------------|------------------|--------------------------------|------------|---------|-------------------------|----------------|----------|---|
| A01 | 2017-11-01 | 595482 | 5245622 | 298.18 | | | | 20 | O to B | dark brown | 5 | J. M. G. | sample taken 18m west of station; 15cm layer of organics, 5cm grey to B hor sampled; sandy soil |
| A02 | 2017-11-01 | 595492 | 5245648 | 298.71 | forest | | | | O to B | rusty tan - light brown | 3 | J. M. G. | sample taken 5m west of station due to low ground (flooded?); layer of organics - 3cm grey to B hor sampled; sandy soil |
| A03 | 2017-11-01 | 595500 | 5245675 | 299.92 | forest | | | | O to B | rusty tan - light brown | 12 | J. M. G. | sample taken at location, on hydroline; thick organics 12cm into B horizon; sandy soil |
| A04 | 2017-11-01 | 595502 | 5245701 | 300.19 | forest | mature jack pine | flat terrain | 15 | B | rusty brown | 5 | J. M. G. | sample taken at location; 10cm organic layer - 5cm grey to B hor; sandy soil |
| A05 | 2017-11-01 | 595500 | 5245726 | 299.96 | forest | mature jack pine | flat terrain | 11 | B | rusty brown | 4 | J. M. G. | sample taken at location; 7cm organic layer - 4cm grey to B hor; sandy soil |
| A06 | 2017-11-01 | 595501 | 5245751 | 300.23 | forest | | flat terrain | | | rusty tan - light brown | | J. M. G. | sample taken at location; sandy soil, rocks on top; 5m west of claim? line |
| A07 | 2017-11-01 | 595503 | 5245775 | 306.46 | mixed forest | | sloped hill | | O to B | rusty - dark brown | | J. M. G. | sample taken at location; organics grade into B hor; sandy soil with some rocks |
| A08 | 2017-11-01 | 595501 | 5245801 | 310.52 | mixed forest, rocky ground | | slope of mountain | | O to B | rusty brown | | J. M. G. | sample taken at location; 6cm organics into B hor sampled; sandy soil, rocky matrix |
| A09 | 2017-11-01 | 595500 | 5245825 | 314.00 | mixed forest, rocky ground | | slope | 12 | B | light brown | | J. M. G. | sample taken off station due to log pile; thin organic layer grades into B hor at 12cm; sandy-rocky soil |
| A10 | 2017-11-01 | 595500 | 5245850 | 315.19 | mixed forest, rocky ground | | mountain slope | | O to B | tan brown | | J. M. G. | sample taken at location; thin organic layer grades into B hor; sandy soil with some large rocks |
| A11 | 2017-11-01 | 595502 | 5245875 | 318.27 | mixed forest, rocky ground | | flat terrain on mountain slope | | O to B | tan brown | | J. M. G. | sample taken at location; thin organic layer grades into B hor; sandy soil with some rocks and pebbles in matrix |
| A12 | 2017-11-01 | 595501 | 5245900 | 319.08 | mixed forest, very rocky ground | | gentle slope on hill side | | O to B | tan brown | | J. M. G. | sample taken at location; thin organic layer, mixed with large rocks grades into B hor, sampled; sandy soil with rocky matrix; 5m west of ... lines |
| A13 | 2017-11-01 | 595498 | 5245925 | 319.95 | mixed forest, very rocky ground | | mountain slope | | O to B | tan brown | | J. M. G. | sample taken 5m west of location; thin organic layer grades into B hor sampled; sandy, gravelly soil |
| A14 | 2017-11-01 | 595500 | 5245950 | 318.47 | mixed forest | | flat area of mountain top | | O to B | tan brown | | J. M. G. | sample taken at location; thin organics grade into B hor sampled; sandy-rocky soil; duplicate of M1 |
| A15 | 2017-11-01 | 595499 | 5245974 | 322.12 | mature-mixed forest | | flat terrain on mountain slope | | O to B | tan brown | | J. M. G. | sample taken at location; thin organics grade into B hor sampled; sandy soil |
| A16 | 2017-11-01 | 595503 | 5246000 | 323.33 | mature-mixed forest | | flat terrain | | O to B | rusty-tan-brown | | J. M. G. | sample taken at location; thin organic to B hor sampled; sandy soil; claim post 17m south; outcrop 20m west |
| A17 | 2017-11-01 | 595499 | 5246025 | 323.55 | mixed forest | | side of outcrop | | O to B | rusty brown | | J. M. G. | sample taken at location; thin organic to B hor sampled; sandy soil; outcrop faces 7m west |
| A18 | 2017-11-01 | 595501 | 5246050 | 320.59 | mature-mixed forest | | mountain slope | | O to B | tan rusty brown | | J. M. G. | sample taken at location; thin organic-rocky to B hor sampled; sandy soil, pebbles and rocks in matrix |
| A19 | 2017-11-01 | 595499 | 5246076 | 316.00 | mature forest | | mountain slope | | O to B | rusty tan | | J. M. G. | sample taken at location on claim line; thin organic to B hor; sandy soil; outcrop 20m west |
| A20 | 2017-11-01 | 595498 | 5246101 | 313.02 | mature forest | | mountain slope | 9 | O to B | rusty tan brown | 4 | J. M. G. | sample taken at location; 5cm organic, 4cm grey to B hor sampled; sandy soil; 4m east of claim post #4 |
| A21 | 2017-11-01 | 595501 | 5246125 | 311.60 | mature forest | | flat mountain terrain | | O to B | rusty tan brown | | J. M. G. | sample taken at location; thin organic to B hor sampled; sandy soil with few pebbles in matrix |
| B01 | 2017-11-01 | 595599 | 5245622 | 304.25 | | | | | | | | J. M. G. | no sample taken - beyond depth of auger; checked with shovel, organics too deep |
| B02 | 2017-11-01 | 595600 | 5245649 | 303.96 | | | | | | | | J. M. G. | no sample taken - beyond depth of auger; checked with shovel, organics too deep |
| B03 | 2017-11-01 | 595598 | 5245673 | 299.94 | | | | | | brown | | J. M. G. | sample taken with auger, spot-on location; full auger length to B hor; sandy soil; checked with shovel - organic too deep |
| B04 | 2017-11-01 | 595599 | 5245701 | 299.90 | | | | | | brown | | J. M. G. | sample taken with auger - 3/4 length to B hor; sandy soil; checked with shovel - organic too deep |
| B05 | 2017-11-01 | 595600 | 5245726 | 297.98 | | | | | | brown | | J. M. G. | sample taken with auger - 3/4 length to B hor; sandy soil; checked with shovel - organic too deep |
| B06 | 2017-11-01 | 595599 | 5245748 | 297.63 | | | | | | brown | | J. M. G. | sample taken with auger - full length to B hor; sandy soil; checked with shovel - organic too deep |
| B07 | 2017-11-01 | 595602 | 5245776 | 297.63 | | | | | | brown | | J. M. G. | sample taken with auger - 1/2 length to B hor; sandy soil; checked with shovel - organic too deep |
| B08 | 2017-11-01 | 595557 | 5245800 | 302.68 | mixed forest | | base of mountain slope | | O to B | dark brown | | J. M. G. | sample taken 43m west due to thick organics in swamp - sample taken at base of mountain slope; sandy soil with pebbles |
| B09 | 2017-11-01 | 595585 | 5245829 | 305.42 | mature-mixed forest | | slope | 2 | O to B | dark brown | | J. M. G. | sample taken 15m west of station due to very rocky ground; thin organic, 2cm grey to B hor; sandy-gravelly soil |
| B10 | 2017-11-01 | 595601 | 5245849 | 306.21 | mixed forest | | flat terrain | | O to B | tan brown | | J. M. G. | sample taken 5m south of station due to rocky ground; sandy soil with pebbles and rocks |
| B11 | 2017-11-01 | 595602 | 5245873 | 305.99 | mature-mixed forest | | flat terrain | | O to B | tan rusty brown | | J. M. G. | sample taken 4m north of station due to rocky ground; sandy soil with some rocks |
| B12 | 2017-11-01 | 595598 | 5245900 | 308.16 | mature-mixed forest, rocky ground | | flat terrain | | O to B | tan brown | | J. M. G. | sample taken spot on location; sandy soil with some rocks |
| B13 | 2017-11-01 | 595599 | 5245925 | 308.47 | rocky ground | | flat terrain | | O to B | brown | | J. M. G. | sample taken spot on location; coarse sandy soil with pebbles |
| B14 | 2017-11-01 | 595598 | 5245950 | 312.17 | | | steep mountain slope | | O to B | brown | | J. M. G. | sample taken spot on location; sandy-rocky-pebbly soil; 3 pits within 15m radius; duplicate of M5 |
| B15 | 2017-11-01 | 595596 | 5245975 | 310.34 | mature-mixed forest | | near creek | 3 | O to B | rusty tan brown | | J. M. G. | sample taken 4m west of station due to rocks |
| B16 | 2017-11-01 | 595602 | 5246000 | 300.30 | mixed forest, rocky ground | | bottom of mountain slope | | O to B | tan brown | | J. M. G. | sample taken spot on location, west of creek; sandy soil with rocks and pebbles in matrix |
| B17 | 2017-11-01 | 595601 | 5246022 | 299.26 | | | | 19 | O to B | tan brown | 19 | J. M. G. | sample taken spot on location, side of creek with high water mark; sandy soil with some pebbles in matrix; 7cm organic layer; outcrop faces 17m west |
| B18 | 2017-11-01 | 595601 | 5246050 | 300.49 | | | | 10 | O to B | dark brown-light brown | 10 | J. M. G. | sample taken spot on location, along side of creek with high water mark; 5cm organic layer; sandy soil |
| B19 | 2017-11-01 | 595596 | 5246074 | 298.67 | | | | 10 | O to B | tan brown | 10 | J. M. G. | sample taken spot on location, edge of creek with high water mark; 4cm organic layer; coarse sandy soil |
| B20 | 2017-11-01 | 595598 | 5246100 | 298.85 | mixed forest | | flat terrain | 10 | O to B | rusty tan brown | 10 | J. M. G. | sample taken spot on location; 8cm organic layer; sandy soil with pebbles |
| B21 | 2017-11-01 | 595599 | 5246126 | 300.19 | mixed forest | | flat terrain | 8 | O to B | light brown | 8 | J. M. G. | sample taken 5m west of station due to thick organic low area; sandy soil |
| B22 | 2017-11-01 | 595602 | 5246150 | 301.29 | mixed forest | | | 13 | O to B | rusty tan brown | 13 | J. M. G. | sample taken spot on location; 10cm organic layer; sandy soil with some pebbles |
| B23 | 2017-11-01 | 595587 | 5246181 | 302.20 | mixed forest, rocky ground | | flat terrain | | O to B | rusty tan brown | | J. M. G. | sample taken 5m north, 12m west of station due to very rocky low ground; sandy soil with rocks and pebbles in matrix |
| C01 | 2017-11-03 | 595699 | 5245623 | 295.27 | mature forest | jack pine | flat terrain | | O to B | light tan brown | 2 | J. M. G. | sample taken spot on location; thin organic layer; sandy soil with rocks in matrix |
| C02 | 2017-11-03 | 595698 | 5245651 | 291.54 | | | flat terrain | 7 | O to B | rusty tan brown | 7 | J. M. G. | sample taken spot on location; 4cm organic layer; sandy soil with pebbles in matrix; outcrop 7m west; found on claim line |
| C03 | 2017-11-03 | 595688 | 5245674 | 291.84 | mature-mixed forest, swampy, rocky | | flat terrain | | O to B | tan brown | | J. M. G. | sample taken 12m west of station within creek bed; outcrop near creek |
| C04 | 2017-11-03 | 595721 | 5245700 | 290.27 | mixed forest | | flat terrain | | O to B | tan brown | | J. M. G. | sample taken 20m east of station in creek bed; sandy, rocky, pebbly soil |
| C05 | 2017-11-03 | 595715 | 5245726 | 294.29 | mixed forest | | | 9 | O to B | tan brown | 9 | J. M. G. | sample taken 14m east of station, low creek bank out to station in creek bed; 7cm organic layer; sandy soil with rocks in matrix |
| C06 | 2017-11-03 | 595713 | 5245751 | 294.74 | mature -mixed forest | | stream bank | | | tan brown | | J. M. G. | sample taken 13m east of station - station in creek bed; sandy soil with some pebbles in matrix |
| C07 | 2017-11-03 | 595705 | 5245774 | 292.81 | mixed forest | | beside creek | | O to B | tan brown | | J. M. G. | sample taken 5m east of station on high water mark bank; gravelly coarse sandy soil |
| C08 | 2017-11-03 | 595701 | 5245800 | 294.23 | mixed forest | | | | O to B | rusty tan brown | | J. M. G. | sample taken 6m east of station, too high water mark (bank) to sample - dug to no B with shovel - sample taken on bank; coarse sandy |
| C09 | 2017-11-03 | 595701 | 5245824 | 293.66 | mixed forest, ...modow? | | | | O to B | light brown | | J. M. G. | sample taken 5m east of station due to low ground ... monow? - side of high water mark; rocky area; gravelly-clay sandy soil |
| C10 | 2017-11-03 | 595700 | 5245850 | 291.32 | mixed forest, B... Monow? | | | | O to B | dark brown | | J. M. G. | sample taken spot on location - on edge of B... modow - high water mark; gravelly-sandy soil |
| C11 | 2017-11-03 | 595702 | 5245875 | 292.53 | bomer monow? | | | | | | | J. M. G. | sample taken spot on with auger; tried on edge of bomor medow? Failed to get to B hor - used auger |
| C12 | 2017-11-03 | 595703 | 5245900 | 293.76 | mixed forest | | slope | | B | tan brown | | J. M. G. | sample taken spot on, berner modow?; rocky sample, gravelly sandy mixed soil |
| C13 | 2017-11-03 | 595698 | 5245925 | 296.65 | mixed forest | | flat terrain | | O to B | tan brown | | J. M. G. | sample taken spot on; rocky excavation; gravelly soil; on claim line |
| C14 | 2017-11-03 | 595699 | 5245950 | 296.34 | mixed forest | | | | O to B | rusty brown | | J. M. G. | sample taken 4m west of station due to rocky ground; rocky excavation; sandy pebbly soil; on claim line; duplicate of M9 |
| C15 | 2017-11-03 | 595700 | 5245976 | 297.16 | mixed forest | | flat terrain | | O to B | rusty tan brown | | J. M. G. | sample taken 4m north-west of station; rocky excavation |
| C16 | 2017-11-03 | 595697 | 5246003 | 298.21 | mixed forest | | flat terrain | | O to B | tan - light brown | | J. M. G. | sample taken spot on location; rocky excavation; sandy clay soil with rocks and pebbles in matrix |
| C17 | 2017-11-03 | 595701 | 5246025 | 295.79 | mixed forest | | flat terrain | | O to B | light brown | | J. M. G. | sample taken spot on location; some rocks in excavation; sandy clay soil; claim post 10m south |
| C18 | 2017-11-03 | 595701 | 5246052 | 296.19 | mixed forest | | flat terrain | | O to B | rusty tan brown | | J. M. G. | sample taken spot on location; sandy soil with some rocks |
| C19 | 2017-11-03 | 595702 | 5246077 | 294.55 | mixed forest | | flat terrain | 10 | O to B | light brown | | J. M. G. | sample taken spot on location; sandy soil with some rocks in excavation |
| C20 | 2017-11-03 | 595702 | 5246100 | 295.80 | mixed forest | | flat terrain | 12 | O to B | tan brown | 12 | J. M. G. | sample taken spot on location; 8cm organic layer; sandy soil with some rocks |
| C21 | 2017-11-03 | 595721 | 5246124 | 294.93 | mixed forest | | | | O to B | tan brown | | J. M. G. | sample taken 20m east of station on side of B.M.?; rocky excavation; sandy pebbly soil, rocks in matrix |
| C22 | 2017-11-03 | 595721 | 5246152 | 294.76 | mature-mixed forest | | | 14 | O to B | light brown | 14 | J. M. G. | sample taken 20m east of station - station in B.M.?; sandy soil; rocky excavation; outcrop 15m east |
| C23 | 2017-11-03 | 595721 | 5246172 | 292.97 | mature-mixed forest | | flat terrain | 12 | O to B | light brown | 12 | J. M. G. | sample taken 21m east of station, edge of B.M.?; sandy soil |
| C24 | 2017-11-03 | 595701 | 5246202 | 292.54 | | | | 61 | B | grey/brown | | J. M. G. | sample taken spot on with auger in B.M.?; sandy soil; no shovel used - too much water |
| C25 | 2017-11-03 | 595710 | 5246225 | 296.33 | benier modow? | | | 61 | | grey | | J. M. G. | auger sample - location 32m to shovel ... organic ... 10m east of station - dug to water, water filled hole ~13"; fine grained sand/soil; shovel not used |
| C26 | 2017-11-03 | 595702 | 5246250 | 295.75 | grassy meadow | | | 6 | O to B | grey-light brown | 6 | J. M. G. | sample taken spot on, edge of creek meadow high water mark |
| D01 | 2017-11-03 | 595800 | 5245625 | 301.34 | mature forest | jack pine | flat terrain | 7 | O to B | tan brown | 7 | J. M. G. | sample taken spot on; gravelly sandy soil |
| D02 | 2017-11-03 | 595802 | 5245651 | 300.72 | | red pine | flat terrain | 5 | O to B | rusty tan brown | 5 | J. M. G. | sample taken spot on location; sandy, gravelly soil |
| D03 | 2017-11-03 | 595800 | 5245675 | 299.40 | mature forest | red pine | bottom of slope | 4 | O to B | tan light brown | 4 | J. M. G. | sample taken spot on location; sandy soil with rocks and pebbles in matrix |
| D04 | 2017-11-03 | 595802 | 5245701 | 305.71 | mature mixed forest | mossy red pines | slope | 11 | B | rusty | 4 | J. M. G. | sample taken spot on location; some rocks in excavation; coarse sandy soil with gravel and rocks |
| D05 | 2017-11-03 | 595801 | 5245726 | 307.69 | mature mixed forest | | flat terrain | 2 | O to B | rusty tan brown | 2 | J. M. G. | sample taken spot on location; coarse sandy soil with rocks and gravel |
| D06 | 2017-11-03 | 595800 | 5245750 | 308.29 | mature mixed forest | mossy red pines | flat terrain | | O to B | light brown | | J. M. G. | sample taken spot on location; sandy clay soil |
| D07 | 2017-11-03 | 595801 | 5245775 | 308.67 | mature mixed forest | | flat terrain | | O to B | tan light brown | | J. M. G. | sample taken spot on location; sandy clay soil with some rocks |
| D08 | 2017-11-03 | 595799 | 5245799 | 308.94 | mature mixed forest | | flat terrain | | O to B | brown | | J. M. G. | sample taken spot on location; sandy-clay soil |
| D09 | 2017-11-03 | 595799 | 5245824 | 306.60 | mixed forest | | flat terrain | | O to B | dark brown | | J. M. G. | sample taken spot on location; rocky excavation; very sandy soil, rocks in matrix |
| D10 | 2017-11-03 | 595800 | 5245850 | 306.05 | mixed forest | | flat terrain | | O to B | tan brown | | J. M. G. | sample taken spot on location; rocky excavation to B hor; rocky, clay-sandy soil |
| D11 | 2017-11-03 | 595801 | 5245875 | 306.14 | mature mixed forest | | flat terrain | | O to B | tan brown | | J. M. G. | sample taken spot on location; rocky excavation to B hor; rocky soil |
| D12 | 2017-11-03 | 595799 | 5245901 | 305.34 | mature mixed forest | | flat terrain | | O to B | tan brown | | J. M. G. | sample taken spot on location; rocky excavation; sandy soil, some clay, gravel matrix |
| D13 | 2017-11-03 | 595800 | 5245926 | 303.18 | mature mixed forest | | | | O to B | light brown | | J. M. G. | sample taken spot on location; clay-sandy soil |

2017 Soil Sample Descriptions

| Sample ID | Date | East N83 Z17 | North N83 Z17 | Elevation | Ground Cover | Site Vegetation | Landform | Depth (cm) | Horizon | Sample Colour | Thickness (cm) | Sampler* | Comments |
|-----------|------------|--------------|---------------|-----------|-----------------------------------|--------------------|---------------------------|------------|---------|-------------------|----------------|----------|---|
| D14 | 2017-10-31 | 595799 | 5245949 | 302.05 | mature mixed forest, rocky ground | | | | O to B | tan brown | | J. M. G. | sample taken spot on location; rocky, sandy soil; duplicate of M13 |
| D15 | 2017-11-03 | 595800 | 5245975 | 302.68 | mature mixed forest | | flat terrain | | O to B | tan brown | | J. M. G. | sample taken spot on location; rocky excavation; sandy soil with rock and pebbles in matrix |
| D16 | 2017-11-03 | 595797 | 5246001 | 301.76 | mature mixed forest | | flat terrain | | O to B | dark brown | | J. M. G. | sample taken spot on location; coarse sandy soil with pebbles in matrix |
| D17 | 2017-11-03 | 595800 | 5246025 | 299.95 | mixed forest | | slope | | O to B | light brown | | J. M. G. | sample taken spot on location; rocky excavation to B hor; sandy soil with some pebbles in matrix |
| D18 | 2017-11-03 | 595801 | 5246050 | 305.06 | mixed forest | | slope | 10 | O to B | rusty brown | 10 | J. M. G. | sample taken spot on location; sandy soil; some small shallow excavations beside outcrop near sample |
| D19 | 2017-11-03 | 595802 | 5246075 | 303.38 | mixed forest | | slope | | O to B | tan brown | | J. M. G. | sample taken spot on location; rocky excavation; sandy soil with rocks in matrix |
| D20 | 2017-11-03 | 595798 | 5246101 | 306.16 | mixed forest | | hill slope | | O to B | rusty | | J. M. G. | sample taken spot on location; sandy soil with pebbles in matrix; long ... 15m east and shallow ... close by |
| D21 | 2017-11-03 | 595800 | 5246124 | 294.42 | mixed forest | | mountain top | 3 | O to B | rusty tan brown | 3 | J. M. G. | sample taken spot on location; rocky excavation; sandy soil with rocks in matrix; outcrop 3m east |
| D22 | 2017-11-03 | 595806 | 5246150 | 303.50 | mixed forest | | outcrop/mountain top | 7 | O to B | tan rusty brown | 7 | J. M. G. | sample taken 6m east of location; sandy soil with small pebbles in matrix |
| D23 | 2017-11-03 | 595803 | 5246173 | 304.54 | mixed forest | pinus | mountain top | 12 | O to B | tan - dark brown | 12 | J. M. G. | sample taken spot on location; sandy-clay soil with small pebbles in matrix |
| D24 | 2017-11-03 | 595802 | 5246201 | 296.77 | mixed forest | | base of cliff | 2 | O to B | rusty tan brown | 2 | J. M. G. | sample taken 4m east of location due to cliff; sandy soil, minor clay, rocks and pebbles in matrix |
| D25 | 2017-11-03 | 595799 | 5246224 | 297.40 | mixed forest | | flat terrain | 4 | O to B | tan brown | 4 | J. M. G. | sample taken spot on location; rocky excavation; sandy soil with rocks in matrix |
| D26 | 2017-11-03 | 595801 | 5246251 | 300.86 | mature mixed forest | | slope | | O to B | tan brown | | J. M. G. | sample taken spot on location; coarse sand and gravel mix |
| D27 | 2017-11-03 | 595802 | 5246275 | 305.85 | mature forest | | flat terrain | | O to B | rusty tan brown | | J. M. G. | sample taken spot on location; rocky excavation; sandy and gravelly sample |
| D28 | | 595800 | 5246300 | | | | top of slope | | O to B | tan brown | | J. M. G. | sample taken 7m west of station due to very rocky ground; sandy-gravelly soil; rocky excavation |
| E01 | 2017-10-28 | 595890 | 5245274 | 292.66 | | | | | B | light brown | | J. M. G. | No B hor at location, moved 10m east; sandy soil; 50m west, mountain rock faces; duplicate of L21 |
| E02 | 2017-10-31 | 595899 | 5245298 | 278.97 | mature forest | jack pines | flat terrain | 7 | B | light tan brown | 2 | J. M. G. | sample taken on claim line 20m east; sandy soil |
| E03 | 2017-10-31 | 595902 | 5245325 | 281.15 | mature forest | jack pines | flat terrain | | B | greyish brown | | J. M. G. | sample taken spot on location; sandy rocky soil |
| E04 | 2017-10-31 | 595901 | 5245351 | 281.75 | mature forest | jack pines | flat terrain | 10 | B | greyish brown | 10 | J. M. G. | sample taken spot on location; rocky, sandy soil with pebbles; 20m south of hydro lines |
| E05 | 2017-10-31 | 595899 | 5245373 | 283.59 | mature forest | jack pines | flat terrain | | B | light brown | | J. M. G. | sample taken spot on location, within hydro line ...; rocky crumly ground; mud horizon present, 10cm organic layer |
| E06 | 2017-10-31 | 595936 | 5245402 | 285.63 | mature forest | alders | low/flat terrain | | B | light brown | | J. M. G. | sample taken 36m east of station due to creek; 6cm organic layer, thin muddy ... mix to B hor |
| E07 | 2017-10-31 | 595925 | 5245426 | 288.18 | | alders | low outwash | | B | light brown | | J. M. G. | sample taken 24m east of location due to stream out wash; rocky ground; 6cm organic layer; sandy-clay soil with rocks and cobbles - gravelly |
| E08 | 2017-10-31 | 595923 | 5245451 | 289.22 | | alders | low area/outwash | 10 | B | light brown | | J. M. G. | sample taken 25m east due to summer creek; low ground and outwash; thin organic layer; sandy clay soil with pebbles |
| E09 | 2017-10-31 | 595908 | 5245475 | 289.61 | mature-mixed forest | pinus | | 4 | O to B | rusty brown | 4 | J. M. G. | sample taken 6m east of station due to creek 20m west; sandy soil with few pebbles |
| E10 | 2017-10-31 | 595901 | 5245500 | 292.28 | mature mixed forest | pinus | | 10 | B | rusty brown | 2 | J. M. G. | sample taken spot on location; coarse sandy soil, some pebbles |
| E11 | 2017-10-31 | 595900 | 5245526 | 291.61 | mature mixed forest | jack pine | flat terrain | 7 | B | rusty tan brown | 9 | J. M. G. | sample taken spot on location; sandy soil and some pebbles |
| E12 | 2017-10-31 | 595901 | 5245552 | 291.51 | mature forest | jack pine | | | B | tan rusty brown | 2 | J. M. G. | sample taken 3m east of station, 20m east of creek wash; coarse sandy soil |
| E13 | 2017-10-31 | 595899 | 5245575 | 295.32 | | | | | B | rusty brown | 2 | J. M. G. | sample taken on claim line, side of ravine; coarse sandy soil mixed with small pebbles in matrix |
| E14 | 2017-10-31 | 595899 | 5245601 | 298.15 | | | ravine slope | | B | rusty dark brown | | J. M. G. | sample take spot on location; 5cm organic layer; sandy soil with some pebbles |
| E15 | 2017-10-31 | 595903 | 5245625 | 301.69 | mature mixed forest | | hill | | O to B | tan brown | | J. M. G. | sample taken spot on location - top of rolling hill - ravine on both sides; coarse sandy soil with gravel matrix |
| E16 | 2017-10-31 | 595898 | 5245650 | 302.28 | mature mixed forest | | flat terrain | 5 | O to B | tan brown | 5 | J. M. G. | sample taken spot on location; sandy rocky soil |
| E17 | 2017-10-31 | 595903 | 5245674 | 302.94 | | | flat terrain | 5 | O to B | rusty tan brown | 5 | J. M. G. | sample taken spot on location; sandy gravelly soil |
| E18 | 2017-10-31 | 595901 | 5245700 | 303.11 | | | flat relief | | O to B | tan brown | | J. M. G. | sample taken spot on location; sandy clay soil, gravelly matrix |
| E19 | 2017-10-31 | 595898 | 5245726 | 303.02 | mature mixed forest | | | | O to B | light brown | | J. M. G. | sample taken spot on location; sandy soil with minor clay and small pebbles |
| E20 | 2017-10-31 | 595898 | 5245751 | 304.48 | mature mixed forest | | flat terrain | | | light brown/tan | | J. M. G. | sample taken spot on location; sandy gravelly soil with rock rocks |
| E21 | 2017-10-31 | 595899 | 5245774 | 306.24 | mixed mature forest | | flat terrain | 11 | B | tan brown | 4 | J. M. G. | sample taken spot on location; sandy soil, gravelly |
| E22 | 2017-10-31 | 595901 | 5245800 | 306.70 | mixed mature forest | | flat terrain | 4 | O to B | tan brown | 4 | J. M. G. | sample taken spot on location; sandy soil with pebbles |
| E23 | 2017-10-31 | 595901 | 5245825 | 305.77 | mixed mature forest | | flat terrain | | O to B | light brown | | J. M. G. | sample taken spot on location; sandy soil, a little clay |
| E24 | 2017-10-31 | 595901 | 5245851 | 308.93 | | | outcrop | | O to B | tan brown | | J. M. G. | sample taken spot on location; sandy soil with pebbles in matrix |
| E25 | 2017-10-31 | 595901 | 5245875 | 306.83 | rocky ground | | outcrop | | O to B | brown | | J. M. G. | sample taken spot on location; sandy soil with pebbles; outcrop 4m west |
| E26 | 2017-10-31 | 595898 | 5245900 | 308.87 | rocky ground, forest | pinus | talus slope | | O to B | dark brown | | J. M. G. | sample taken 4m east of station on talus slope of outcrop mountain; sandy soil, gravelly matrix |
| E27 | 2017-10-31 | 595902 | 5245924 | 311.26 | rocky ground | | outcrop/mountain | 6 | B | rusty tan brown | 2 | J. M. G. | sample taken 5m east of station, side of mountain outcrop; sandy soil with rocks |
| E28 | 2017-10-25 | 595899 | 5245949 | 314.96 | | | | | B | light tan | | J. M. G. | sample taken 7m west of station, possible ... trench, no sample location and outcrop - lots of roots; grey 10cm layer above B hor; duplicate of M17 |
| E29 | 2017-10-25 | 595901 | 5245974 | 318.04 | | | | | B | tan brown | | J. M. G. | sample taken spot on location; sandy soil, lots of roots |
| E30 | 2017-10-25 | 595901 | 5245999 | 321.49 | | | | | B | tan brown | | J. M. G. | still on top of ...; sample taken spot on location; disturbances with in 20m ... trenches; sandy soil; bedrock at 24cm; sample occupies "basic"; hor at 23... |
| E31 | 2017-10-25 | 595901 | 5246025 | 322.83 | | | | 9 | | dark brown | 3 | J. M. G. | sample taken spot on location; lots of roots; outcrop of whales back, some rock |
| E32 | 2017-10-25 | 595899 | 5246048 | 323.34 | | | | | | brown | | J. M. G. | sample taken 3m west due to outcrop; clay below B hor; sandy soil |
| E33 | 2017-10-25 | 595903 | 5246073 | 317.64 | | | | | | brown-tan | | J. M. G. | sample taken spot on location; outcrop 15m south, line over outcrop - ND; thin grey layer over B hor; sandy soil |
| E34 | 2017-10-25 | 595901 | 5246098 | 312.11 | | | | | B | tan-brown | | J. M. G. | sample taken 3m east of location; no gravel/pebbles - clean - sandy loamy soil; on slope east of ... back to west |
| E35 | 2017-10-25 | 595899 | 5246125 | 305.76 | | | | | B | tan-brown | | J. M. G. | sample taken spot on location; possible shallow trench - 4m west of sample; clean, no pebbles; 3cm grey layer above B hor |
| E36 | 2017-10-25 | 595899 | 5246149 | 308.98 | | | | | B | tan-brown | | J. M. G. | sample taken spot on location; 3.5cm organics layer; sandy pebbly soil |
| E37 | 2017-10-25 | 595900 | 5246175 | 311.30 | | | flat terrain | | B | tan brown | | J. M. G. | sample taken spot on location; some rocks, pebbles mixed into B hor |
| E38 | 2017-10-25 | 595898 | 5246199 | 310.03 | | | flat terrain | | B | tan brown | | J. M. G. | sample taken spot on location; sandy clay soil, no rocks |
| E39 | 2017-10-25 | 595897 | 5246224 | 309.97 | | | | | B | light brown | | J. M. G. | sample taken spot on location; west of old claim line; thin light grey soil under organics; sandy soil, no rocks, no pebbles |
| E40 | 2017-10-25 | 595898 | 5246250 | 309.00 | | | | | B | light brown - tan | | J. M. G. | sample taken 2m east from location; much less rocks, somewhat follows out claim line; sandy soil |
| E41 | 2017-10-25 | 595899 | 5246273 | 312.66 | | | | | B | tan brown | | J. M. G. | sample taken spot on location; humus then 3cm grey, B hor below grey; rocks, pebbles, sandy soil |
| E42 | 2017-10-25 | 595902 | 5246299 | 313.78 | | | | | B | | | J. M. G. | sample taken spot on location; 5m east of old claim line; no grey layer, rocky; sample found between rocks |
| E43 | 2017-10-25 | 595901 | 5246324 | 315.04 | rocky terrain | | | | B | brown tan | | J. M. G. | sample taken spot on location; organic layer, 2cm grey layer, then B hor |
| E44 | 2017-10-25 | 595899 | 5246350 | 314.98 | | | slope | | B | | | J. M. G. | sample taken spot on location; A: 5cm, B: 5-19cm; rocks, boulders |
| E45 | 2017-10-25 | 595901 | 5246374 | 310.54 | | | slope | | B | tan brown | | J. M. G. | sample taken 4m west of location on cut survey line 5m north of claim post 4 (old) 4272860; rocky boulders in B hor; minor pebbles |
| F01 | 2017-10-28 | 596000 | 5245277 | 305.34 | mature forest | jack pines | | 20 | B | rusty tan | | J. M. G. | sample taken spot on location; 10cm organic layer, 10cm grey layer; sandy loam; duplicate of L17 |
| F02 | 2017-10-31 | 596004 | 5245301 | 293.82 | mature forest | jack pines | creek | 9 | B | tan brown | | J. M. G. | sample taken 4m east of station in creek, high water mark - on power line; 7cm organic layer, 2cm grey layer to B hor; sandy soil |
| F03 | 2017-10-31 | 596010 | 5245325 | 293.07 | mature forest | jack pines, alders | | | B | rusty tan brown | | J. M. G. | taken 10m east of station due to low ground; 4cm organic layer, 4cm grey layer; sandy soil |
| F04 | 2017-10-31 | 596004 | 5245352 | 292.30 | | | low ground | | B | brown | | J. M. G. | sample taken 7m east of station due to low tag alders ground; 25cm organic, 3cm grey; sandy soil; on edge of low area |
| F05 | 2017-10-31 | 596010 | 5245375 | 290.97 | mature forest | jack pine | low area | | B | light brown | | J. M. G. | sample taken 15m east of station in low area (cannot collect by shovel); 15cm organics, 25cm grey to B hor; sandy soil |
| F06 | 2017-10-31 | 596017 | 5245401 | 293.07 | forest | mature pine, alder | low area | | B | brown | | J. M. G. | sample taken 16m from edge of low area (tag alders); 20cm organic, 3cm grey to B hor; sandy soil |
| F07 | 2017-10-31 | 596001 | 5245425 | 295.43 | forest | mature pine, alder | low area | | B | tan brown | | J. M. G. | sample taken spot on location on bottom of slope beside low area (tag alder); 15cm organics, 12cm grey to B hor; sandy soil |
| F08 | 2017-10-31 | 596001 | 5245450 | 299.10 | forest | mature jack pine | gentle slope | | B | rusty tan | | J. M. G. | sample taken spot on location; thin organics, 5cm grey to B hor; sandy soil, few rocks |
| F09 | 2017-10-31 | 596002 | 5245475 | 301.56 | forest | mature jack pine | gentle slope | | B | brown | | J. M. G. | sample taken spot on location; thin organics, 2cm grey to B hor; sandy soil |
| F10 | 2017-10-31 | 596003 | 5245499 | 304.57 | mature mixed forest | | | | B | tan brown | | J. M. G. | sample taken spot on location; thin organics, 3cm grey to B hor; sandy soil |
| F11 | 2017-10-31 | 596002 | 5245525 | 307.35 | mature mixed forest | | flat terrain | | B | rusty tan | | J. M. G. | sample taken spot on location; thin organics, 5cm grey to B hor; sandy soil |
| F12 | 2017-10-31 | 596001 | 5245549 | 308.90 | mature mixed forest | | flat terrain | | B | rusty tan | | J. M. G. | sample taken spot on location; 4cm organics, 5cm grey to B hor; sandy soil |
| F13 | 2017-10-31 | 595999 | 5245576 | 307.48 | mature mixed forest | | flat terrain | | B | tan brown rusty | | J. M. G. | sample taken spot on location; thin organics, 5cm grey to B hor; coarse sandy soil |
| F14 | 2017-10-31 | 596001 | 5245599 | 303.67 | mature mixed forest | | flat terrain | | B | tan brown | | J. M. G. | sample taken spot on location; 4cm organics, 4cm grey to B hor; sandy soil; 10m east of claim line |
| F15 | 2017-10-31 | 596000 | 5245625 | 302.99 | | | top ravine | | B | rusty tan brown | | J. M. G. | sample taken spot on location; thin organics, 5cm grey to B hor; coarse sandy soil |
| F16 | 2017-10-31 | 596002 | 5245648 | 299.66 | | | bottom of slope of ravine | | B | rusty brown | | J. M. G. | sample taken spot on location; 10cm organics, 5cm grey to B hor; sandy soil; large 15m width ravine |
| F17 | 2017-10-31 | 595998 | 5245675 | 304.81 | mature mixed forest | | slope | | B | rusty brown | | J. M. G. | sample taken spot on location; 6cm organics, 5cm grey to B hor; sandy soil |
| F18 | 2017-10-31 | 596000 | 5245700 | 309.07 | mature mixed forest | | hill face slope | | B | rusty tan brown | | J. M. G. | sample taken spot on location; thin organics, 4cm grey to B hor; sandy soil |
| F19 | 2017-10-31 | 596002 | 5245726 | 309.68 | | | slope | | B | rusty brown | | J. M. G. | sample taken spot on location; 7cm organics; coarse sand with pebble sin matrix |
| F20 | 2017-10-31 | 596002 | 5245749 | 307.78 | mature forest | | ravine | | B | tan brown | | J. M. G. | sample taken spot on location in small ravine; thin organics grade into B hor; sandy soil |
| F21 | 2017-10-31 | 596001 | 5245776 | 313.39 | | | top of rolling hill | | B | tan brown | | J. M. G. | sample taken spot on location; thin organics, 2cm grey to B hor; sandy soil with few rocks |
| F22 | 2017-10-31 | 595998 | 5245800 | 314.69 | mature mixed forest | | flat terrain | | B | rusty brown | | J. M. G. | sample taken spot on location; high ground; thin organic grades into B hor; coarse sandy soil with small pebbles in matrix |
| F23 | 2017-10-31 | 595999 | 5245825 | 315.26 | rocky ground | | flat terrain | | B | tan brown | | J. M. G. | sample taken spot on location; organic grades into B hor; sandy soil with rocks in matrix |

2017 Soil Sample Descriptions

| Sample ID | Date | East N83 Z17 | North N83 Z17 | Elevation | Ground Cover | Site Vegetation | Landform | Depth (cm) | Horizon | Sample Colour | Thickness (cm) | Sampler* | Comments |
|-----------|------------|--------------|---------------|-----------|-----------------------------------|-----------------|--------------------------------|------------|---------|-----------------------|----------------|----------|---|
| F24 | 2017-10-31 | 596000 | 5245850 | 315.85 | rocky ground, mixed forest | | | | B | brown | | J. M. G. | sample taken 5m south of station; thin organic grades into B hor; sandy clay? Soil; top of elevation |
| F25 | 2017-10-31 | 596002 | 5245875 | 320.22 | rocky ground, mixed forest | | flat terrain | | B | rusty brown | | J. M. G. | sample taken 4m south of location; top of hill; 10cm organics, rock excavation to B hor; sandy soil with rocks in matrix |
| F26 | 2017-10-31 | 596000 | 5245900 | 320.46 | mixed forest | | flat terrain | | B | brown | | J. M. G. | sample taken spot on location; 4cm organic, 5cm grey to B hor; sandy soil with few rocks |
| F27 | 2017-10-31 | 596002 | 5245925 | 322.12 | | | mountain top | | B | rusty brown | | J. M. G. | sample taken 4m east of station; thin organic, 2cm grey to B hor; sandy soil with rocks |
| F28 | 2017-10-25 | 596000 | 5245950 | 319.13 | | | | | | | | J. M. G. | sample taken 3m west of location; 1cm grey after organics, possibly at bedrock; rocky excavation; still on W. back hill; same location as M12; 23cm bedrock; trench 4m west of sample |
| F29 | 2017-10-25 | 596001 | 5245976 | 319.58 | | | hill | | B | dark brown | | J. M. G. | sample taken spot on location; organic, 2cm grey |
| F30 | 2017-10-25 | 596001 | 5246000 | 320.02 | | | | | B | dark brown | | J. M. G. | sample taken spot on location; outcrop close by - near cliff face; rocky excavation; lots of rocks; sandy soil with rocks |
| F31 | 2017-10-25 | 596001 | 5246026 | 313.37 | | | | | B | tan dark brown | | J. M. G. | sample taken spot on location at bottom of cliff face; some rocks, B hor pebbly and rocky |
| F32 | 2017-10-25 | 596000 | 5246051 | 310.90 | | | hill slope | | B | tan dark brown | | J. M. G. | sample taken spot on location, bottom of hill-trench to east at bottom of hill; roots; sandy soil, few rocks and pebbles |
| F33 | 2017-10-25 | 595999 | 5246077 | 309.00 | | | | | B | brown | | J. M. G. | sample taken spot on location; old trench crossed to west 25m; organic, 5cm grey to B hor; sandy soil |
| F34 | 2017-10-25 | 595998 | 5246102 | 308.87 | | | flat terrain | | B | light brown | | J. M. G. | sample taken spot on location; 8-10cm organics, 5cm grey |
| F35 | 2017-10-25 | 595998 | 5246125 | 310.49 | | | flat terrain | | B | light brown | | J. M. G. | sample taken spot on location; thin humus; sandy soil minor pebbles |
| F36 | 2017-10-25 | 596002 | 5246150 | 308.82 | | | flat terrain | | B | medium brown | | J. M. G. | sample taken spot on location; organic, 4cm grey; sandy soil, some pebbles |
| F37 | 2017-10-25 | 595996 | 5246174 | 313.76 | | | flat terrain | | B | medium brown | | J. M. G. | sample taken spot on location; organic, 7cm grey then B hor, some pebbles within sandy loamy matrix |
| F38 | 2017-10-25 | 595996 | 5246200 | 314.41 | | | flat terrain | | B | light brown | | J. M. G. | sample taken spot on location; clean sandy soil |
| F39 | 2017-10-25 | 596000 | 5246224 | 314.37 | mixed forest | | flat terrain | | B | dark tan brown | | J. M. G. | sample taken spot on location; 7cm organics; sandy soil |
| F40 | 2017-10-25 | 596002 | 5246251 | 311.81 | mixed forest | | flat terrain | | B | tan/medium brown | | J. M. G. | sample taken spot on location; same as previous, very few pebbles |
| F41 | 2017-10-25 | 596000 | 5246275 | 314.90 | | | hill slope | | B | dark brown | | J. M. G. | sample taken 5m west of location; rocky hillside with minor grade uphill to north; organic, 3cm grey soil; lots of roots and rocks, some pebbles in B hor; sandy soil |
| F42 | 2017-10-25 | 596002 | 5246303 | 313.50 | | | hill slope | | B | tan brown | | J. M. G. | sample taken spot on location; rocky hill side, at top pf slope; humus then grey, rocks; B hor deeped down, lots of rocks; sandy soil with some pebbles and rocks; hard excavation |
| F43 | 2017-10-25 | 596002 | 5246326 | 310.88 | | | flat terrain | | B | dark brown | | J. M. G. | sample taken 3m off location; same as previous - rocky; 7cm organic, rocky matrix, 75% rocks |
| F44 | 2017-10-25 | 596002 | 5246351 | 313.42 | | | | | B | | | J. M. G. | sample taken spot on location; same as previous; bedrock or large rock, sample taken from ... up tp top of B ... |
| F45 | 2017-10-25 | 596000 | 5246374 | 316.20 | | | | | B | tan brown | | J. M. G. | At suruty? Line; rocky at sample location - searched for good location - 2m east; excavated through fist size rocks - organics removed; salvaged B hor from below organics; sandy pebble matrix |
| F46 | 2017-10-25 | 596002 | 5246402 | 309.12 | | | | | B | light brown | | J. M. G. | sample taken on slope N side of hill "steep"; rocky, organic, 4cm grey, B hor; sandy with pebbles matrix; can see cabin to east |
| F051 | 2017-10-31 | 596015 | 5245374 | 292.51 | | | | | | | | J. M. G. | |
| G01 | 2017-10-28 | 596100 | 5245275 | 307.97 | mixed forest | | flat terrain | | B | tan brown | | J. M. G. | sample taken spot on location; thin organic, 2cm grey; sandy soil; duplicate of L13 |
| G02 | 2017-10-30 | 596103 | 5245301 | 304.01 | | jack pine | gentle slope | | B | tan brown | 4 | J. M. G. | sample taken spot on location; 10cm organic, 4cm grey to B hor; sandy soil |
| G03 | 2017-10-30 | 596100 | 5245325 | 303.71 | | | flat terrain | | B | rusty tan brown | 6 | J. M. G. | sample taken spot on location; thin organic, 6cm grey to B hor; sandy soil |
| G04 | 2017-10-30 | 596099 | 5245349 | 305.57 | | | | | B | rusty tan brown | 7 | J. M. G. | sample taken spot on location, 4m east of ATV trail; thin organic, 7cm grey to B hor; sandy soil |
| G05 | 2017-10-30 | 596100 | 5245376 | 307.31 | | | | | B | rusty tan brown | | J. M. G. | sample taken spot on location; 4m east of trail; thin organic, 4cm grey to B hor; sandy soil |
| G06 | 2017-10-30 | 596098 | 5245400 | 310.84 | | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; ATV tain at sample station, moved off to east 3m - trespassing sign 20m to ...; thin organics, 5cm grey to B hor; sandy soil |
| G07 | 2017-10-30 | 596098 | 5245425 | 310.50 | mature mixed forest | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; 4cm organic, 4cm grey then B hor; sandy soil |
| G08 | 2017-10-30 | 596101 | 5245450 | 310.73 | mature mixed forest | | flat relief | | B | tan brown | | J. M. G. | sample taken spot on location; 3cm organic, 5cm grey to B hor; sandy soil |
| G09 | 2017-10-30 | 596101 | 5245474 | 313.48 | mature mixed forest | | flat terrain | | B | tan brown | | J. M. G. | sample taken spot on location; 3cm organic, 4cm grey into B hor; sandy soil |
| G10 | 2017-10-30 | 596102 | 5245500 | 314.04 | mature mixed forest | | flat terrain | | B | rusty tan | | J. M. G. | sample taken spot on location; thin organic, 4cm grey to B hor; coarse sandy soil with a few pebbles |
| G11 | 2017-10-30 | 596102 | 5245524 | 315.30 | mature mixed forest | | flat terrain | | B | rusty brown | | J. M. G. | sample taken spot on location; thin organic, 4cm grey to B hor; sandy soil |
| G12 | 2017-10-30 | 596102 | 5245550 | 315.47 | mature mixed forest | | flat terrain | | B | light brown | | J. M. G. | sample taken spot on location; 5cm organic, 6cm grade into B hor; sandy soil |
| G13 | 2017-10-30 | 596102 | 5245575 | 316.89 | | | | | B | rusty tan brown | | J. M. G. | sample taken spot on location; 5cm organics, 5cm grey to B hor; sandy soil; ribbons to east? |
| G14 | 2017-10-30 | 596102 | 5245599 | 319.50 | | | gentle slope | | B | rusty brown | | J. M. G. | sample taken spot on location; thin organics, 3cm grey to B hor; sandy soil; on claim line? (ribbons) |
| G15 | 2017-10-30 | 596100 | 5245625 | 322.48 | | | slope | | B | dark brown | | J. M. G. | sample taken 7m east of station due to outcrop and rocky ground; 15cm organics and mud to B hor; sandy, clay soil |
| G16 | 2017-10-30 | 596101 | 5245651 | 325.03 | | | bench | | B | rusty tan | | J. M. G. | sample taken spot on location; up a bench; 5cm organic to B hor; sandy soil, some rocks |
| G17 | 2017-10-30 | 596100 | 5245674 | 324.24 | | | gentle slopw | | B | rusty tan brown | | J. M. G. | sample taken spot on location; 4cm organic, 4cm grey to B hor; sandy soil, few rocks |
| G18 | 2017-10-30 | 596098 | 5245700 | 323.98 | | | slope | | B | tan brown | | J. M. G. | sample taken spot on location; outcrop east and west; shallow B hor; sandy gravelly soil |
| G19 | 2017-10-30 | 596100 | 5245724 | 324.24 | rocky ground, mature mixed forest | | | | B | rusty | | J. M. G. | sample taken spot on location; 4cm organic to B hor; sandy soil with rocks and pebbles in matrix |
| G20 | 2017-10-30 | 596100 | 5245749 | 323.22 | | | | | B | brown | | J. M. G. | sample taken spot on location; thin organic to B hor; sandy soil with pebbles in the matrix |
| G21 | 2017-10-30 | 596101 | 5245775 | 322.32 | | | flat terrain | 8 | B | dark brown | 4 | J. M. G. | sample taken spot on location; low area; 7cm organic, 4cm grey to b hor; sandy soil |
| G22 | 2017-10-30 | 596102 | 5245799 | 321.58 | | | | | B | rusty dark brown | | J. M. G. | sample taken 7m north of station due to low ground; thin organics, 2cm grey to B hor; sandy soil |
| G23 | 2017-10-30 | 596099 | 5245826 | 323.03 | | | flat terrain | | B | rusty brown | | J. M. G. | sample taken spot on location; 7cm organics, 5cm grey to B hor; sandy soil |
| G24 | 2017-10-30 | 596101 | 5245850 | 323.98 | | | | | B | rust brown | | J. M. G. | sample taken spot on location; rural ground south of large pit; 7cm organic to B hor; sandy soil, rocks in matrix |
| G25 | 2017-10-30 | 596098 | 5245875 | 322.42 | | | flat terrain | | B | light brown | | J. M. G. | sample taken spot on location; 10cm organic to B hor; sandy soil; hole infiln with water |
| G26 | 2017-10-30 | 596101 | 5245900 | 323.71 | | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; thin organic, 6cm grey to B hor; sandy soil; large trench 5m south |
| G27 | 2017-10-30 | 596100 | 5245926 | 328.90 | mature mixed forest | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; 5cm organic, 2cm grey to B hor; sandy soil |
| G28 | 2017-10-26 | 596100 | 5245951 | 326.71 | | | | | B | tan brown | | J. M. G. | sample taken spot on top of rise, see outcrop 25m west; thin organic then B hor, som pebble; sandy soil; duplicate os M25 |
| G29 | 2017-10-26 | 596100 | 5245973 | 321.01 | | | low hill slope | | B | dark tan brown | | J. M. G. | sample taken spot on side of low hill side; thin organic, 2cm grey to B hor; sandy soil |
| G30 | 2017-10-26 | 596099 | 5246000 | 318.12 | | | | | B | tan brown | | J. M. G. | sample taken spot on side of low rise; thin organic, 7cm grey to B hor; sandy soil; 4m east of old claim post 4272860 post #2 |
| G31 | 2017-10-26 | 596100 | 5246026 | 314.12 | | | | | B | rusty dark brown | | J. M. G. | sample taken spot at bottom of low rise; thin organic, 3cm grey to B hor; on claim line |
| G32 | 2017-10-26 | 596099 | 5246050 | 313.24 | | | flat terrain | | B | tan brown | | J. M. G. | sample taken spot on location; thin organic; sandy soil |
| G33 | 2017-10-26 | 596099 | 5246075 | 313.35 | | | flat terrain | | B | rusty brown | | J. M. G. | sample taken spot on location; thin organic, 4cm grey to B hor; coarse sandy soil |
| G34 | 2017-10-26 | 596100 | 5246101 | 314.69 | | | flat terrain | | B | tan light brown | | J. M. G. | sample taken spot on location; thin organic, 3cm grey then B hor; sandy soil |
| G35 | 2017-10-26 | 596099 | 5246125 | 317.93 | | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; thin organic, 2cm grey then B hor; sandy soil with few small pebbles |
| G36 | 2017-10-26 | 596102 | 5246149 | 318.29 | | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; thin organic, few pebbles; sandy soil |
| G37 | 2017-10-26 | 596101 | 5246175 | 316.91 | | | | | B | tan brown | | J. M. G. | sample taken spot on location; 5-2cm organic, thin grey to B hor; sandy soil, fewer pebbles; top of rise |
| G38 | 2017-10-26 | 596101 | 5246199 | 312.03 | | | | | B | light brown tan | | J. M. G. | sample taken spot on location; 5-7cm organic - no base or rise; sandy soil |
| G39 | 2017-10-26 | 596098 | 5246224 | 303.73 | | | flat terrain | | B | tan brown | | J. M. G. | sample taken spot on location; 7cm organic; sandy clay B hor; matrix of sand and clay, few small pebbles |
| G40 | 2017-10-26 | 596099 | 5246251 | 301.89 | | | flat terrain | | B | light brown | | J. M. G. | sample taken spot on location; thin organic, clay in matrix and sandy; ribbon from claim line on east side of sample 4m |
| G41 | 2017-10-26 | 596102 | 5246275 | 300.95 | | | flat terrain | | B | tan brown | | J. M. G. | sample taken spot on location; thin organic; sandy soil |
| G42 | 2017-10-26 | 596098 | 5246300 | 304.84 | rocky ground | | | | B | dark brown | | J. M. G. | south side of gravel ridge, same as G43; cobbly, sandy matrix; sandy clay with pebbles |
| G43 | 2017-10-26 | 596100 | 5246325 | 309.68 | | | | | B | dark brown | | J. M. G. | sample taken spot on location; some rock on top of sandy rock ridge; thin organic, coarse sandy matrix; pebbles in B hor |
| G44 | 2017-10-26 | 596101 | 5246350 | 306.90 | | | top of slope | | B | dark brown | | J. M. G. | sample taken spot on location; coarse gravel - lots of rocks; top of slope; 7cm organics then B hor; sandy soil |
| G45 | 2017-10-26 | 596101 | 5246377 | 300.69 | rocky ground | | | | B | dark/light brown | | J. M. G. | searched for location at top of steep slope south of suruty line, 25m east of claim post; organic 10cm, many rocks moved to get sample; gravelly, sandy, minor clay in sample |
| H01 | 2017-10-28 | 596199 | 5245275 | 316.55 | mixed forest | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; 6cm organic, 3cm grey to B; sandy soil; duplicate of L9 |
| H02 | 2017-10-30 | 596200 | 5245301 | 307.20 | mature mixed forest | | flat terrain | | B | rusty brown | | J. M. G. | sample taken spot on location; thin organic, 3cm grey to B hor; sandy soil |
| H03 | 2017-10-30 | 596198 | 5245326 | 308.55 | | | flat terrain to gently rolling | | B | light brown | | J. M. G. | sample taken spot on location; 7cm organic + brown mud; sandy soil |
| H04 | 2017-10-30 | 596200 | 5245350 | 313.37 | | | gradual slope | | B | rusty tan brown | | J. M. G. | sample taken spot on location; thin organic, 3cm grey to B hor; sandy soil |
| H05 | 2017-10-30 | 596199 | 5245376 | 314.80 | | | side of slope | | B | tan brown | | J. M. G. | sample taken spot on location; thin organic, 2cm grey to B hor; sandy soil; 15m^2 x 2m^2 trench, 3m north of sample |
| H06 | 2017-10-30 | 596200 | 5245401 | 315.40 | | | top pf slope | | B | rusty brown | | J. M. G. | sample taken spot on location; 4cm organic, 6cm mud to B hor; sandy soil; trench/pit - large - 15m east of sample |
| H07 | 2017-10-30 | 596199 | 5245425 | 316.88 | | | flat on top of slope | | B | tan light brown | | J. M. G. | sample taken spot on location; some rock in excavation; thin organic, 1cm grey to B hor; sandy soil with some rocks; long trench 15m east |
| H08 | 2017-10-30 | 596198 | 5245450 | 317.76 | | | side of slope | | B | tan light brown | | J. M. G. | sample taken spot on location; thin organic to B hor; sandy soil; numerous trenches/pit to east of sample |
| H09 | 2017-10-30 | 596200 | 5245475 | 316.63 | | | | | B | tan brown | | J. M. G. | sample taken spot on location; 3m north of trenced outcrop; rocky; thin organic to B; sandy clay matrix with pebbles and some rock s |
| H10 | 2017-10-30 | 596199 | 5245501 | 316.46 | | | | | B | rusty brown | | J. M. G. | sample taken 4m west of station due to rocky ground; thin oprganic, 4cm organic to B hor; sandy soil with some rocks |
| H11 | 2017-10-30 | 596199 | 5245525 | 318.84 | mature mixed forest | | | | B | rusty tan light brown | | J. M. G. | sample taken spot on location; 5cm organic, 6cm grey to B hor; sandy soil |
| | | | | | | | | | | | | | |

2017 Soil Sample Descriptions

| Sample ID | Date | East N83 Z17 | North N83 Z17 | Elevation | Ground Cover | Site Vegetation | Landform | Depth (cm) | Horizon | Sample Colour | Thickness (cm) | Sampler* | Comments |
|-----------|------------|--------------|---------------|-----------|-----------------------------------|-----------------|----------------|------------|---------|----------------------|----------------|----------|--|
| H15 | 2017-10-30 | 596199 | 5245626 | 323.75 | rocky ground | | | | B | rusty tan brown | | J. M. G. | sample taken 4m west of location due to rocks; 2cm grey to B hor; sandy soil; 15m west of claim line |
| H16 | 2017-10-30 | 596199 | 5245650 | 324.04 | rocky ground | | | | B | brown | | J. M. G. | sample taken spot on location; thin organic to B hor; rocky, gravely soil with some clay and pebbles |
| H17 | 2017-10-30 | 596200 | 5245676 | 325.34 | rocky ground | | | | B | rusty brown | | J. M. G. | sample taken spot on location; thin organic, 2cm grey to B hor; sandy soil with pebbles in matrix |
| H18 | 2017-10-30 | 596201 | 5245701 | 324.93 | | | flat terrain | | B | light brown | | J. M. G. | sample taken spot on location; 10cm organic; sandy soil, wet sand |
| H19 | 2017-10-30 | 596201 | 5245724 | 327.22 | rocky ground | | | | B | rusted brown | | J. M. G. | sample taken spot on location; thin organic, 2cm grey to B hor; sandy soil, rocks in matrix, minor pebbles |
| H20 | 2017-10-30 | 596201 | 5245750 | 324.58 | mature mixed forest | | flat terrain | | B | light brown | | J. M. G. | sample taken 10m to west due to low ground (water infilling); 10cm organic to B hor; sandy soil |
| H21 | 2017-10-30 | 596198 | 5245776 | 324.82 | rocky ground | | flat terrain | | B | rusty brown | | J. M. G. | sample taken spot on location; thin organic, 3cm grey to B hor; hit bedrock at 21cm???; sandy soil |
| H22 | 2017-10-30 | 596200 | 5245800 | 324.60 | | | flat terrain | | B | rusty brown | | J. M. G. | sample taken spot on location; 4cm organic, 2cm grey to B hor; sandy soil |
| H23 | 2017-10-30 | 596199 | 5245825 | 322.86 | | | flat terrain | | B | rusty brown | | J. M. G. | sample taken spot on location; 2cm grey to B hor; sandy soil, few rocks |
| H24 | 2017-10-30 | 596200 | 5245851 | 323.70 | | | | | B | rusty tan brown | | J. M. G. | sample taken 4m west of station due to outcrop - outcrop south of sample - edge ...; 4cm organic to B hor; sandy soil |
| H25 | 2017-10-30 | 596199 | 5245874 | 322.11 | | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; 4cm organic, 8cm grey to B hor; sandy soil |
| H26 | 2017-10-30 | 596199 | 5245900 | 322.90 | mature mixed forest | | flat terrain | | B | tan to light brown | | J. M. G. | sample taken spot on location; 4cm organic, 4cm grey to B hor; sandy soil; outcrop to north |
| H27 | 2017-10-30 | 596200 | 5245925 | 324.11 | | | | | B | dark brown | | J. M. G. | sample taken spot on outcrop; 5cm organic, 2cm grey to B hor; sandy soil with some rocks |
| H28 | 2017-10-26 | 596200 | 5245950 | | | | ridge | | B | tan/brown | | J. M. G. | sample taken spot on location, top of outcrop ridge; 20cm organic; sandy soil with pebbles; duplicate of M29 |
| H29 | | 596202 | 5245984 | 319.58 | | | | | B | tan/brown | | J. M. G. | sample taken 8m north of location due to outcrop - trench at bottom of cliff face; thin organic; sandy soil; station on mountain, had to move forward below cliff |
| H30 | 2017-10-26 | 596198 | 5245998 | 318.13 | | | flat terrain | | B | dark brown | | J. M. G. | sample taken spot on location; 7cm organic, 2cm grey; sandy soil |
| H31 | 2017-10-26 | 596201 | 5246025 | 321.55 | | | flat terrain | | B | tan brown | | J. M. G. | sample taken spot on location; sandy soil; thin organic |
| H32 | 2017-10-26 | 596199 | 5246052 | 322.42 | | | flat terrain | | B | tan light brown | | J. M. G. | sample taken spot on location; thin organic, 4cm grey to B hor; sandy soil |
| H33 | 2017-10-26 | 596200 | 5246076 | 322.18 | | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; 6cm organic, 2cm grey; sandy soil |
| H34 | 2017-10-26 | 596202 | 5246100 | 320.70 | | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; 6cm organic; sandy soil with some pebbles |
| H35 | 2017-10-26 | 596202 | 5246124 | 320.60 | | | flat terrain | | B | tan brown | | J. M. G. | sample taken spot on location; thin organic; coarse sand, some pebbles |
| H36 | 2017-10-26 | 596199 | 5246151 | 319.88 | | | flat terrain | | B | rusty dark brown | | J. M. G. | sample taken spot on location; shallow organic to B hor; some pebbles |
| H37 | 2017-10-26 | 596202 | 5246175 | 318.76 | | | gentle slope | | B | tan light brown | | J. M. G. | sample taken spot on location; 12cm organic, 2cm grey; lots of roots; sandy soil |
| H38 | 2017-10-26 | 596198 | 5246200 | 316.99 | | | gentle slope | | B | tan brown | | J. M. G. | sample taken spot on location; thin organic layer; coarse sandy matrix with minor pebbles |
| H39 | 2017-10-26 | 596199 | 5246226 | 316.12 | | | | | B | rusty tan brown | | J. M. G. | sample taken spot on location; 10cm organic layer; coarse/fine sandy matrix |
| H40 | 2017-10-26 | 596199 | 5246252 | 314.97 | | | | | B | rusty tan brown | | J. M. G. | sample taken spot on location; 5cm organic layer, 5cm grey layer; fine sandy soil |
| H41 | 2017-10-26 | 596199 | 5246276 | 318.53 | | | mountain slope | | B | tan brown | | J. M. G. | sample taken spot on location, side of mountain slope 44 degrees; thin organic, rocky slope; sandy pebbles matrix |
| H42 | 2017-10-26 | 596202 | 5246299 | 325.55 | | | moraine | | B | tan brown | | J. M. G. | sample taken spot on location; 8cm organics, 5cm grey; sandy pebbly matrix with some rocks |
| H43 | 2017-10-26 | 596205 | 5246316 | 320.33 | | | | | B | tan brown | | J. M. G. | sample taken 9m south of station due to steep rocky slope (north side of marain); rocky, thin organic; sample taken around rocks; sandy pebbly, rocky matrix; coarse sand |
| I01 | 2017-10-28 | 596301 | 5245273 | 324.15 | | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; 5cm organic, 3m grey; sandy soil; duplicate of L5 |
| I02 | 2017-10-29 | 596299 | 5245300 | 324.03 | | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; thin organic, 8cm grey to B hor; sandy soil; top flat of elevation |
| I03 | 2017-10-29 | 596296 | 5245325 | 322.30 | | | flat | | B | light brown tan | | J. M. G. | sample taken spot on location on flat above rise; thin organic, 4cm grey to B hor; sandy soil with small pebbles (rusty) upper layer |
| I04 | 2017-10-29 | 596297 | 5245350 | 325.91 | mature mixed forest, rocky ground | | | | B | dark brown | | J. M. G. | sample taken spot on location on elevation top of K...; outcrop 10m east; thin organic to B hor; rocky sandy matrix, pebbles included |
| I05 | 2017-10-29 | 596301 | 5245374 | 326.41 | | | flat | | B | rusty dark brown | | J. M. G. | sample taken spot on flat on high elevation; hit possible bedrock at 30cm; 4cm organic, 6cm grey to B hor; sandy soil a few rocks |
| I06 | 2017-10-29 | 596301 | 5245400 | 326.30 | | | flat terrain | | B | light tan brown | | J. M. G. | sample taken spot on location; outcrop 7m east; 6cm organic, 4cm grey to B hor; sandy soil; on high elevation |
| I07 | 2017-10-29 | 596298 | 5245425 | 326.87 | rocky ground | | | | B | rusty tan brown | | J. M. G. | sample taken spot on location; onto of Kurie (hill)? - outcrops surround; thin organic to B hor; sandy soil with rocks in matrix (rooty) |
| I08 | 2017-10-29 | 596300 | 5245449 | 325.62 | | | flat outcrop | | B | rusty dark brown | | J. M. G. | sample taken spot on location; outcrops surround; thin organic, 3cm grey to B hor; sandy soil with some rocks |
| I09 | 2017-10-29 | 596300 | 5245476 | 325.12 | | | gentle slope | | B | dark brown | | J. M. G. | sample taken 3m south of station; thin organic to B hor; sandy soil with rocks in matrix and some pebbles; outcrops surround location; basil till bedrock at 30cm |
| I10 | 2017-10-29 | 596301 | 5245501 | 321.98 | rocky ground | | flat | | B | rusty tan brown | | J. M. G. | sample taken spot on location; still on outcrops, outcrops surrounded, some minor trenches; thin organic to B hor; sandy soil with some rocks in matrix; claim line 10m east of station, 25m east - trail seen |
| I11 | 2017-10-29 | 596301 | 5245524 | 322.08 | rocky ground | | | | B | rusty tan brown | | J. M. G. | sample taken spot on location; ... outcrops on all sides that has been trenced on faces; shallow organic, 2cm grey to B hor; some rocks in sample |
| I12 | 2017-10-29 | 596296 | 5245550 | 319.41 | | | flat | | B | tan dark brown | | J. M. G. | sample taken 3m west due to outcrop - outcrops surrounds; thin organic, 2cm grey to B hor; sandy soil with some rocks; on claim line, ribbons, long trench 15m west of station |
| I13 | 2017-10-29 | 596300 | 5245575 | 320.43 | mature mixed forest | | slope | | B | tan brown | | J. M. G. | sample taken spot on location; descends down slope on K...; ribbons, possible claim line; sandy soil |
| I14 | 2017-10-29 | 596299 | 5245600 | 325.79 | | | | | B | tan brown | | J. M. G. | sample taken 3-4m east off station, outcrop at station; thin organics to B hor; sandy soil a few pebbles |
| I15 | 2017-10-29 | 596298 | 5245625 | 325.04 | rocky ground | | flat | | B | tan brown | | J. M. G. | sample taken spot on location; outcrop surrounds; thin organic, 2cm dark grey to B hor; sandy soil with rock matrix |
| I16 | 2017-10-29 | 596302 | 5245649 | 326.55 | | | | | B | tan light brown | | J. M. G. | sample taken spot on location; thin organic, 2cm grey, then B hor; sandy soil with some pebbles; top of knowls |
| I17 | 2017-10-29 | 596300 | 5245675 | 327.46 | rocky ground, mature mixed forest | | | | B | rusty tan brown | | J. M. G. | sample taken spot on location; top of knowl; thin organic; sandy soil and rocks in matrix |
| I18 | 2017-10-29 | 596299 | 5245700 | 326.66 | rocky ground | | | | B | tan brown | | J. M. G. | sample taken spot on location; still on ND knowl hill; 7cm organic, 2cm grey to B hor; sandy soil with some rocks and pebbles |
| I19 | 2017-10-29 | 596302 | 5245724 | 325.92 | rocky ground | | | | B | dark brown | | J. M. G. | sample taken spot on location; outcrop surrounds; thin organic to B hor; sandy soil with some clay and minor small pebbles |
| I20 | 2017-10-29 | 596298 | 5245750 | 326.41 | rocky ground | | | | B | dark brown | | J. M. G. | sample taken spot on location; top of knowl hill, outcrops 2m west of station; large trench (blasted) 7m east; 4cm organic, 4cm grey to B hor; sandy soil with some rocks in matrix |
| I21 | 2017-10-29 | 596302 | 5245773 | 323.43 | rocky | | | | B | rusty dark brown | | J. M. G. | sample taken spot on location; top og knowl hill; shallow pits surround; thin organic, 5cm grey to B hor; sandy soil with some pebbles |
| I22 | 2017-10-29 | 596301 | 5245795 | 320.63 | | | | | B | tan brown | | J. M. G. | sample taken 3m south of station due to lire pita nd trench that wraps around station; thin organic to B hor; soil with few pebbles in matrix |
| I23 | 2017-10-29 | 596299 | 5245824 | 315.42 | | | | | B | rusty tan brown | | J. M. G. | sample taken spot on location; top of knowl; 2 old trenches 15m south and west; shallow organics; 3m grey; sandy soil with few pebbles |
| I24 | 2017-10-29 | 596299 | 5245850 | 314.47 | | | | | B | tan dark brown | | J. M. G. | sample taken spot on location; top of hill knowl - outcrop 5m west of station; thin organic, 3cm grey; sandy soil, few pebbles |
| I25 | 2017-10-29 | 596296 | 5245875 | 309.61 | mature mixed forest | | | | B | dark brown | | J. M. G. | sample taken 3m west of station due to outcrop on knowl hill; 6cm organics, 3cm grey; lots of rocks to B hor; sandy soil |
| I26 | 2017-10-29 | 596300 | 5245900 | 299.63 | | | | | B | rusty tan brown | | J. M. G. | sample taken spot on location; 4cm organic, 4cm grey; sandy soil; 7m south to outcrop, 5m face, large knowl hill, 7m west large pits |
| I27 | 2017-10-29 | 596301 | 5245924 | 297.41 | mature mixed forest | | gentle slope | | B | rusty tan brown | | J. M. G. | sample taken spot on location; number of shallow trenches; thin organics; 5cm grey; sandy soil with small pebbles in matrix |
| I28 | 2017-10-26 | 596299 | 5245952 | 315.09 | | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; 7cm organic, 3cm grey; sandy soil, few pebbles; duplicate of M33 |
| I29 | 2017-10-27 | 596300 | 5245977 | 313.40 | | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; 7cm organic, then B hor; sandy soil with minor pebbles |
| I30 | 2017-10-27 | 596301 | 5246000 | 312.32 | | | flat terrain | | B | tan brown | | J. M. G. | sample taken spot on location; 10cm organic then B hor; sandy soil, on claim line |
| I31 | 2017-10-27 | 596301 | 5246023 | 311.34 | | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; thin organic, 2cm grey; sandy soil; on claim line |
| I32 | 2017-10-27 | 596299 | 5246051 | 311.63 | | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; thin organic; sandy soil |
| I33 | 2017-10-27 | 596300 | 5246074 | 312.33 | | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; 6cm organic; sandy soil; large pit 3m to east |
| I34 | 2017-10-27 | 596302 | 5246100 | 309.16 | | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; thin organic; sandy soil with some pebbles |
| I35 | 2017-10-27 | 596298 | 5246125 | 308.06 | rocky ground | | slope | | B | dark brown | | J. M. G. | sample taken spot on location, end of slope; lots of cobble begore B hor; sandy, some clay and pebbles |
| I36 | 2017-10-27 | 596299 | 5246150 | 307.01 | rocky ground | | slope | | B | brown | | J. M. G. | sample taken spot on location, 35 degree slope; lots of cobble, 10cm organic, soil with pebbles |
| I361 | 2017-10-27 | 596376 | 5245949 | 308.58 | | | | | | | | J. M. G. | |
| I37 | 2017-10-27 | 596303 | 5246175 | 306.16 | rocky ground | | slope | | B | tan brown | | J. M. G. | sample taken spot on location, 30 degree slope; thin organic, 10cm organic, 2cm grey; sandy soil with some pebbles (rusty); 7m south of large pitalso 50m from cabin on lake |
| I38 | 2017-10-27 | 596301 | 5246197 | 308.02 | rocky ground | | slope | | B | brown | | J. M. G. | sample taken spot on location, side of slope; slope of 30 degree; sandy clay soil with pebbles mixed; 7m north large pit, 75-100m south of cabin |
| I39 | 2017-10-27 | 596297 | 5246225 | 309.25 | | | flat terrain | | B | brown tan | | J. M. G. | sample taken spot on location; thin organic, 2cm grey; sandy pebbly matrix soil |
| I40 | 2017-10-27 | 596299 | 5246248 | 302.04 | | | slope | | B | brown | | J. M. G. | sample taken spot on location; slope to lake 43 degrees; thin organic, 2cm grey; gravely matrix; 10-15m to water shoreline |
| J01 | 2017-10-28 | 596399 | 5245274 | 316.92 | | | flat terrain | | B | rusty brown | | J. M. G. | sample taken spot on location; on claim line; 6cm organic, 2cm grey; sandy soil |
| J02 | 2017-10-29 | 596401 | 5245298 | 314.85 | mature mixed forest | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; 4cm organic, 2cm grey; sandy soil |
| J03 | 2017-10-29 | 596399 | 5245326 | 315.56 | | | flat terrain | | B | light tan brown | | J. M. G. | sample taken spot on location; thin organic, 3cm grey; sandy soil |
| J04 | 2017-10-29 | 596401 | 5245350 | 316.05 | | | | | B | tan brown | | J. M. G. | At end of trail/bush road sample taken; thin organic, 5cm grey to B hor; sandy soil |
| J05 | 2017-10-29 | 596396 | 5245375 | 316.86 | | | | | B | rusty brown | | J. M. G. | sample taken 5m west of station due to bedrock ascending up outcroppings; possible old small trenches; 5cm organics, 2cm grey; sandy soil and pebbles in matrix |
| J06 | 2017-10-29 | 596401 | 5245401 | 316.09 | rocky ground | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken 10m south of road - outcropping on west side of sample 2m; thin organic, 4cm grey to B hor; sandy soil |
| J07 | 2017-10-29 | 596401 | 5245426 | 316.24 | mature mixed forest | | flat terrain | | B | rusty tan dark brown | | J. M. G. | sample taken spot on location; 10cm organic, 2cm grey to B hor, sandy soil with some pebbles in matrix |
| J08 | 2017-10-29 | 596399 | 5245451 | 317.81 | | | | | B | light tan brown | | J. M. G. | sample taken spot on location over outcrop to west 5m; 6cm organic to B hor; sandy soil and few pebbles |
| J09 | 2017-10-29 | 596405 | 5245476 | 319.63 | rocky ground | | | | B | dark brown | | J. M. G. | sample taken spot on location beside bush road - outcrop hill to west - trench beside road 15m west; thin organic to B hor; sandy soil with rocks of cobble, pebbles in matrix |
| J10 | 2017-10-29 | 596398 | 5245502 | 321.54 | mature mixed forest | | flat terrain | | B | rusty brown tan | | J. M. G. | sample taken spot on location; shallow organic, 1cm grey to b hor; sandy soil with some pebbles |
| J11 | 2017-10-29 | 596401 | 5245524 | 326.95 | mature mixed forest | | flat terrain | | B | tan brown | | J. M. G. | sample taken spot on location; thin organic to B hor; 3cm grey to B hor; soil with some pebbles in matrix |
| J12 | 2017-10-29 | 596402 | 5245550 | 329.75 | mature mixed forest | | flat terrain | | B | tan brown | | J. M. G. | sample taken spot on location; thin organic, 4cm grey to B hor; sandy soil |
| J13 | 2017-10-29 | 596401 | 5245576 | 329.45 | mature mixed forest | | flat terrain | | B | rusty brown | | J. M. G. | sample taken spot on location; claim line 10m to north; shallow organic to loamy 15cm to B hor; sandy soil |

2017 Soil Sample Descriptions

| Sample ID | Date | East N83 Z17 | North N83 Z17 | Elevation | Ground Cover | Site Vegetation | Landform | Depth (cm) | Horizon | Sample Colour | Thickness (cm) | Sampler* | Comments |
|-----------|------------|--------------|---------------|-----------|-----------------------------------|-----------------|---------------------------|------------|---------|-------------------|----------------|----------|---|
| J14 | 2017-10-29 | 596400 | 5245602 | 330.12 | mature mixed forest | | flat terrain | | B | tan brown | | J. M. G. | sample taken spot on location; thin organic to 6cm transition to B hor; sandy soil |
| J15 | 2017-10-29 | 596399 | 5245625 | 330.89 | | | flat terrain | | B | tan brown | | J. M. G. | sample taken spot on location; thin organic, rocks to B hor; sandy and clay soil |
| J16 | 2017-10-29 | 596404 | 5245650 | 328.21 | | | flat terrain | | B | rusty ran brown | | J. M. G. | sample taken spot on location; ; thin organic, 7cm mud to B hor; sandy soil |
| J17 | 2017-10-29 | 596400 | 5245675 | 328.09 | | | flat terrain | | B | tan brown | | J. M. G. | sample taken spot on location; thin organic, mud 7cm to B hor; sandy soil |
| J18 | 2017-10-29 | 596400 | 5245702 | 327.78 | | | flat terrain | | B | tan brown | | J. M. G. | sample taken spot on location; thin organic brown muddy, sandy loam to B hor, some rocks and pebbles in matrix |
| J19 | 2017-10-29 | 596400 | 5245725 | 325.68 | mature mixed forest | | | | B | light brown tan | | J. M. G. | sample taken spot on location; shallow trench 7m east of sample, shallow organic, mud 7cm to B hor |
| J20 | 2017-10-29 | 596400 | 5245751 | 323.20 | | | slope | | B | rusty tan brown | | J. M. G. | sample taken spot on location; on slope 1st bench, bedrock on mountain talus slope; thin organic, 6cm grey to B hor; sandy soil |
| J21 | 2017-10-29 | 596401 | 5245775 | 315.07 | | | | | B | rusty | | J. M. G. | sample taken 6m north due to rocky talus; thin organic, 7cm muddy hor before B; sandy matrix |
| J22 | 2017-10-29 | 596403 | 5245801 | 312.88 | | | flat terrain | | B | rusty brown | | J. M. G. | sample taken spot on location; 10cm organic to 4cm grey to B hor; sandy soil |
| J23 | 2017-10-29 | 596401 | 5245825 | 314.87 | | | flat terrain | | B | light brown tan | | J. M. G. | sample taken spot on location; thin organic, 6cm grey to B hor; sandy soil |
| J24 | 2017-10-29 | 596400 | 5245850 | 314.84 | | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; 5cm organic, 4cm grey to B hor; sandy soil |
| J25 | 2017-10-29 | 596402 | 5245875 | 312.32 | mature forest | | | | B | rusty dark brown | | J. M. G. | sample taken spot on location; 7cm organic to B hor; gravelly sand |
| J26 | | 596401 | 5245900 | 309.92 | | | flat terrain | | B | tan to dark brown | | J. M. G. | sample taken spot on location; thin organic, 4cm grey to B hor; sandy soil |
| J27 | | 596399 | 5245926 | 308.30 | | | | | B | rusty tan brown | | J. M. G. | sample taken spot on location; thin organic, 2cm grey to B hor; sandy soil with some pebbles in matrix |
| J28 | | 596400 | 5245951 | 307.47 | | | flat terrain | | B | rusty brown | | J. M. G. | sample taken spot on location; 10cm organic, 2cm grey; sandy soil with some pebbles; duplicate of M37 beside trail |
| J29 | 2017-10-27 | 596400 | 5245975 | 309.41 | | | flat terrain | | B | rusty brown | | J. M. G. | sample taken spot on location; thin organic, 4cm grey; sandy soil |
| J30 | 2017-10-27 | 596400 | 5246000 | 310.22 | | | flat terrain | | B | tan brown | | J. M. G. | sample taken spot on location; 5cm organic, 5cm grey; sandy soil |
| J31 | 2017-10-27 | 596397 | 5246024 | 312.43 | | | flat terrain | | B | rusty tanbrown | | J. M. G. | sample taken spot on location; 7cm organic, 2cm grey; sandy soil with some pebbles |
| J32 | 2017-10-27 | 596400 | 5246050 | 310.70 | | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; thin organic; sandy soil, few small pebbles |
| J33 | 2017-10-27 | 596399 | 5246075 | 307.80 | | | slope | | B | rusty tan brown | | J. M. G. | sample taken spot on location; 5cm organic, 2cm grey; sandy soil |
| K01 | 2017-10-27 | 596482 | 5245550 | 314.56 | | | | | B | tan brown | | J. M. G. | sample taken 5m west of survey cutline; 10cm organic to B hor; sandy soil with numerous small pebbles |
| K02 | 2017-10-27 | 596483 | 5245574 | 313.30 | | | | | B | tan brown | | J. M. G. | sample taken 5m west of survey line; 10cm organic into B hor; sandy soil with pebble and cobble matrix within |
| K03 | 2017-10-27 | 596483 | 5245598 | 314.13 | | | | | B | tan brown | | J. M. G. | survey line 3m south of sample at 596486E, 5245603N; sample taken 5m west of survey line; 10cm organic to B; sandy soil, a few small pebbles |
| K04 | 2017-10-27 | 596483 | 5245626 | 314.53 | | | | | B | rusty brown | | J. M. G. | sample taken 5m west of survey line claim line; 7cm organic, 5 cm grey; sandy soil many rocks |
| K05 | 2017-10-27 | 596482 | 5245650 | 314.60 | | | | | B | dark brown | | J. M. G. | sample taken 5m west of survey line; 10cm organic to B hor; sandy soil; trench 8m to west of station |
| K06 | 2017-10-27 | 596484 | 5245673 | 314.34 | | | gentle slope | | B | rusty tan brown | | J. M. G. | sample taken 5m west of survey line; thin organic into B hor rocky, gravelly matrix; sandy soil with cobbles/pebbles; a little clay in matrix |
| K07 | 2017-10-27 | 596485 | 5245699 | 311.51 | | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken 5m west of station due to survey line; 10cm organic; sandy soil; outcrop 3m to west |
| K08 | 2017-10-27 | 596484 | 5245724 | 313.02 | | | | | B | rusty tan brown | | J. M. G. | sample taken 6m west of station possible very old excavation along outcrop to west; shallow organic to B hor; sandy soil |
| K09 | 2017-10-27 | 596483 | 5245751 | 312.27 | | | | | B | tan brown | | J. M. G. | sample taken 6m west of location, survey line, claim line; sandy soil; survey pin 1: 596488E +-3m 5245737N |
| K10 | 2017-10-27 | 596480 | 5245774 | 311.05 | | | flat terrain | | B | dark brown | | J. M. G. | sample taken 5m west of survey line; thin organic; coarse gravel sand B hor; gravel matrix |
| K11 | 2017-10-27 | 596489 | 5245800 | 312.37 | | | flat terrain | | B | tan brown | | J. M. G. | sample taken spot on location; 20m west of road, marring in survey and adjusting; thin organic, 2cm grey; sandy soil with some rocks and cobble |
| K12 | 2017-10-27 | 596479 | 5245825 | 312.31 | | | | | B | tan brown | | J. M. G. | sample taken 10-12m off location due to cottage road base; 8cm organic to B hor; sandy soil |
| K13 | 2017-10-27 | 596466 | 5245849 | 310.49 | | | | | B | tan brown | | J. M. G. | sample taken 24m west of location due to new cottage road base...shallow organic to B hor; sandy soil |
| K14 | 2017-10-27 | 596470 | 5245875 | 311.85 | | | flat terrain | | B | tan brown | | J. M. G. | sample taken spot on location; 7m west of new cottage road; thin organic, many roots; sandy soil with few pebbles |
| K15 | 2017-10-27 | 596485 | 5245900 | 312.27 | | | | | B | rusty tan brown | | J. M. G. | sample taken 5m to west due to face of gravel excavation for cottage lor; thin organic, rocky B hor; sandy matrix with some cobble and pebbles |
| K16 | 2017-10-27 | 596491 | 5245925 | 315.28 | | | flat terrain | | B | dark tan brown | | J. M. G. | sample taken spot on location; on claim line; shallow organic, 2cm grey; sandy soil with large pebble in matrix |
| K17 | 2017-10-27 | 596486 | 5245950 | 314.33 | | | | | B | rusty tan brown | | J. M. G. | sample taken a few metres south of claim line; shallow organic, 2cm grey ; sandy soil with a few rocks; duplicate of M41 |
| K18 | 2017-10-27 | 596484 | 5245974 | 311.87 | rocky ground | | slope | | B | tan brown | | J. M. G. | sample taken spot on location; down slope 35 degrees; 10cm organic, 3cm grey; gravel matrix, sandy soil, some clay |
| K19 | 2017-10-27 | 596480 | 5246000 | 306.75 | | | slope | | B | yellow tan brown | | J. M. G. | sample taken spot on location; bottom of hill, 25m to large shore; shallow organic, 3cm grey; sandy soil |
| L01 | | 596400 | 5245275 | | | | flat terrain | | B | rusty brown | | J. M. G. | sample taken spot on location; on claim line; 6cm organic, 2cm grey; sandy soil; duplicate of J1 |
| L02 | 2017-10-28 | 596376 | 5245276 | 316.22 | mature mixed forest | | | | B | tan light brown | | J. M. G. | sample taken spot on location; outcrop 15m to NW; 12cm organic (below mud); sandy soil |
| L03 | 2017-10-28 | 596349 | 5245275 | 320.46 | mature mixed forest | | gentle slope | | B | rusty brown | | J. M. G. | sample taken spot on location; 5cm organic, 2cm grey; sandy soil |
| L04 | 2017-10-28 | 596326 | 5245275 | 322.37 | mature mixed forest | | flat terrain | | B | light brown tan | | J. M. G. | sample taken spot on location; 20cm organic (sandy loam); sandy soil |
| L05 | | 596300 | 5245275 | | mature mixed forest | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; 5cm organic, 3m grey; sandy soil; duplicate of I1 |
| L06 | 2017-10-28 | 596274 | 5245275 | 324.52 | | | gentle slope | | B | light tan brown | | J. M. G. | sample taken spot on location; 20cm grey then B hor; sandy soil |
| L07 | 2017-10-28 | 596250 | 5245276 | 320.52 | | | gentle slope | | B | light brown | | J. M. G. | sample taken spot on location; 10cm organic, 5cm grey then B hor; sandy soil |
| L08 | 2017-10-28 | 596225 | 5245277 | 318.48 | | | gentle slope | | B | rust brown | | J. M. G. | sample taken spot on location; thin organic, 12cm grey |
| L09 | | 596200 | 5245275 | | mixed forest | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; 6cm organic, 3cm grey; sandy soil; duplicate of H1 |
| L10 | 2017-10-28 | 596175 | 5245275 | 314.40 | mixed forest | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; 6cm organic, 5cm grey; sandy soil |
| L11 | 2017-10-28 | 596150 | 5245274 | 311.87 | | | gentle slope | | B | rusty tan brown | | J. M. G. | sample taken spot on location; 5cm organic, 5cm grey; sandy soil |
| L12 | 2017-10-28 | 596126 | 5245276 | 307.60 | | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; thin organic, 6cm grey; sandy soil |
| L13 | | 596100 | 5245275 | | mixed forest | | flat terrain | | B | tan brown | | J. M. G. | sample taken spot on location; thin organic, 2cm grey; sandy soil; duplicate of G1 |
| L14 | 2017-10-28 | 596075 | 5245274 | 306.97 | | jack pine | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; 10cm organic, 10cm grey; sandy soil |
| L15 | 2017-10-28 | 596051 | 5245275 | 304.56 | | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; 10cm organic, 10cm grey; sandy soil |
| L16 | 2017-10-28 | 596024 | 5245275 | 304.06 | | jack pine | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; 5m west of road; 10cm organic, 10cm grey-B; sandy soil |
| L17 | | 596000 | 5245275 | | | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; 10cm organic, 10cm grey; sandy soil; duplicate of F1 |
| L18 | 2017-11-01 | 595974 | 5245274 | 288.46 | | | | | B | brown | | J. M. G. | skipped with shovel - low creek bed (alder) try with auger; taken with auger "13" 1/2 auger length in station bed; sandy soil |
| L19 | 2017-10-28 | 595951 | 5245275 | 294.09 | | | | | B | light brown | | J. M. G. | sample taken spot on location; side of low creek bed (high water mark): 10cm organic, 7cm clay organic mix, B hor; sandy clay matrix to 60cm depth |
| L20 | 2017-10-28 | 595926 | 5245291 | 294.25 | | | | | B | light brown | | J. M. G. | excavated by shovel to 60cm; organic then hard compacted fine sandy clay and rocks - no B hor - retuen with auger, moved 14m north to B hor, 10cm organic; few pebbles |
| L21 | | 595900 | 5245275 | | | | | | B | light brown | | J. M. G. | No B at location, move 10m west; thin organic to B hor; sandy soil; 50m west, mountain rear faces; duplicate of E1 |
| M01 | | 595500 | 5245950 | | mixed forest | | flat area of mountain top | | B | tan brown | | J. M. G. | sample taken spot on location; thin organic grades into B hor; sandy rusty soil |
| M02 | 2017-11-01 | 595525 | 5245948 | 319.31 | mixed forest | | flat area of mountain top | | B | tan brown | | J. M. G. | sample taken spot on location; thin organic to b hor; rocky pebbly soil |
| M03 | 2017-11-01 | 595550 | 5245952 | 320.26 | | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; thin organic to b hor; sandy soil |
| M04 | 2017-11-01 | 595578 | 5245949 | 313.17 | rocky ground, mature mixed forest | | slope | | B | tan brown | | J. M. G. | sample taken spot on location; outcrop face 4m west; thin organic, 2cm grey to b hor; sandy soil |
| M05 | | 595600 | 5245950 | | | | slope | | B | brown | | J. M. G. | sample taken spot on location; edge of steep mountain base; thin organic grades into B; very rocky sandy soil; pebbles; 3 pits within 15m ravines; duplicate of B14 |
| M06 | 2017-11-01 | 595625 | 5245952 | 305.95 | mixed forest | | flat | | B | brown | | J. M. G. | sample taken spot on location; low area on flat to creek, high water mark; thin organic grades into B hor; sandy clay soil with some rocks and pebbles |
| M07 | 2017-11-01 | 595640 | 5245950 | 302.30 | | | | | B | | | J. M. G. | auger faced too rocky stromm bed?? ... west of creek 595640E 5245950N |
| M08 | 2017-11-03 | 595675 | 5245951 | 293.87 | | | | | B | | | J. M. G. | Auger sample failed too rocky; thin organic, large rocks moved to get material - gravelly matrix coarse sandy pebbly mix; shovel sample: treid with shoevel, water filled, moved to high water mark |
| M09 | | 595700 | 5245950 | | mixed forest | | | | B | rusty brown | | J. M. G. | sample taken 4m west of station due to rocky ground, rocky excavation; thin organic into B hor; sandy pebbly soil; duplicate of C14 |
| M10 | 2017-11-03 | 595725 | 5245948 | 300.28 | mixed forest | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; 5cm organic, rocky excavation to B1; sandy soil, coarse sand; pit 5m west of sample |
| M11 | 2017-11-03 | 595748 | 5245952 | 303.74 | mature forest | | slope | | B | tan brown | | J. M. G. | sample taken spot on location; side of slope, 4cm organic grades into B; sandy soil and rocks and pebbles in matrix |
| M12 | 2017-11-03 | 595775 | 5245953 | 305.10 | mature mixed forest | | flat terrain | | B | tan brown | | J. M. G. | sample taken spot on location; rocky excavation; thin organic grades into B hor; sandy soil with gravelly matrix |
| M13 | | 595800 | 5245950 | | rocky ground | | flat terrain | | B | tan brown | | J. M. G. | sample taken spot on location; thin organic grades into B hor; rocky sandy sample; duplicate of D14 |
| M14 | 2017-10-31 | 595826 | 5245949 | 301.32 | mixed mature forest | | | | B | tan brown | | J. M. G. | sample taken spot on location; thin organic, grades into B hor; coarsed sandy soil with a few pebbles; on flat below hill, 20 m west of pit |
| M15 | 2017-10-31 | 595850 | 5245949 | 306.75 | | | slope | | B | tan brown | | J. M. G. | sample taken spot on location; side of mountain slope; 15m east of pit; thin organic grades into B hor; rocky; soil qith cobbles; no QV/Ca...dump no...; pit, bedrock |
| M16 | 2017-10-31 | 595876 | 5245951 | 309.20 | mixed forest | | gentle slope | | B | rusty tan brown | | J. M. G. | sample taken spot on location; thin organic grades into B; sandy soil |
| M17 | | 595900 | 5245950 | | | | | | B | tan brown | | J. M. G. | sample taken at same location as E28, same description; 12m to west due to outcrop and rocky ground, lots of roots; sandy soil; 10cm grey; duplicate of E28 |
| M18 | 2017-10-25 | 595925 | 5245951 | 315.74 | | | slope | | B | dark brown | | J. M. G. | sample taken 4m east of location, some rocks, thin organic, mix sandy soil; top of hill |
| M19 | 2017-10-25 | 595949 | 5245951 | 318.81 | | | | | B | dark brown | | J. M. G. | sample taken spot on location; top of whalesback - lots of boulders around, rocky digging, shallow humus; gravelly B hor; some 3cm grey above B |
| M20 | 2017-10-25 | 595975 | 5245948 | 320.36 | | | | | B | dark brown | | J. M. G. | sample taken 3m off location due to rocks; rocks dig organic, 3cm grey then B hor; some boulders moved to get sample |
| M21 | | 596000 | 5245950 | | | | | | B | dark brown | | J. M. G. | sample taken 3m west of location; possibly bedrock below, |

2017 Soil Sample Descriptions

| Sample ID | Date | East N83 Z17 | North N83 Z17 | Elevation | Ground Cover | Site Vegetation | Landform | Depth (cm) | Horizon | Sample Colour | Thickness (cm) | Sampler* | Comments |
|-----------|------------|--------------|---------------|-----------|--------------|-----------------|--------------|------------|---------|------------------|----------------|----------|--|
| M24 | 2017-10-26 | 596074 | 5245949 | 326.94 | rocky ground | | | | B | tan brown | | J. M. G. | sample taken spot on location; top of rise, rocky ground and roots; thin organic, 3cm grey; sandy soil |
| M25 | | 596100 | 5245950 | | | | | | B | tan brown | | | sample taken spot on location; top of rise, see outcrop 25m west; thin organic; sandy soil with some pebbles; duplicate of G28 |
| M26 | 2017-10-26 | 596126 | 5245946 | 322.35 | | | | | B | rusty dark brown | | J. M. G. | sample taken 3m east of location at bottom of outcrop hill; outcrop north face; thin organic; sandy soil |
| M27 | 2017-10-26 | 596152 | 5245952 | 320.16 | | | | | B | tan brown | | J. M. G. | sample taken spot on location; 3m east of large outcrop, no organic, 3m grey; sandy soil with some rocks |
| M28 | 2017-10-26 | 596177 | 5245950 | 321.33 | | | | | B | rusty tan brown | | J. M. G. | sample taken spot on location; on rise; thin organic, 5m grey; sandy soil with few rocks |
| M29 | 2017-10-26 | 596201 | 5245950 | 322.68 | | | | | B | tan brown | | J. M. G. | sample taken spot on location; sandy soil; duplicate of H28 |
| M30 | 2017-10-26 | 596225 | 5245950 | 320.51 | | | | | B | rusty tan brown | | J. M. G. | sample taken spot on location; surrounded by outcrop; still on rise; thin organic, 3cm grey; sandy soil, a few pebbles |
| M31 | 2017-10-26 | 596250 | 5245951 | 316.16 | | | | | B | rusty tan brown | | J. M. G. | sample taken spot on location; bottom of outcrop hill, outcrop 4m west from sample; thinorganic, 3cm grey, few rocks |
| M32 | 2017-10-26 | 596274 | 5245952 | 314.90 | | | flat terrain | | B | tan brown | | J. M. G. | sample taken spot on location; thin organic, 3cm grey; sandy soil |
| M33 | | 596300 | 5245950 | | | | flat terrain | | B | rusty tan brown | | | sample taken spot on location; 7cm organic, 3cm grey; sandy soil, few pebbles; duplicate of I28 |
| M34 | 2017-10-27 | 596325 | 5245951 | 310.81 | | | flat terrain | | B | rusty brown | | J. M. G. | sample taken spot on location; thin organic; sandy soil with some pebbles |
| M35 | 2017-10-27 | 596351 | 5245951 | 309.67 | | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; thin organic, 3cm grey; sandy soil |
| M36 | | 596375 | 5245950 | | | | low terrain | | B | tan brown | | | sample taken spot on location; low terrain, thin organic; sandy soil with some pebbles |
| M37 | | 596400 | 5245950 | | | | flat terrain | | B | rusty brown | | | sample taken spot on location; 10cm organic, 2cm grey; sandy soil with some pebbles; duplicate of J28; beside trail |
| M38 | 2017-10-27 | 596425 | 5245951 | 310.36 | | | flat terrain | | B | rusty tan brown | | J. M. G. | sample taken spot on location; thin organic, 1cm grey; sandy soil |
| M39 | 2017-10-27 | 596450 | 5245951 | 313.39 | rocky ground | | | | B | tan brown | | J. M. G. | sample taken spot on location; top of hill; shallow organic, work through very rocky material to B; gravel matrix |
| M40 | 2017-10-27 | 596474 | 5245950 | 313.75 | | | 11 | | B | rusty tan brown | | J. M. G. | sample taken spot on location; near top of hill; thin organic, 2cm grey; sandy matrix with a few pebbles |
| M41 | | 596490 | 5245950 | | | | 61 | | B | rusty tan brown | | | sample taken a few meters south of station at claim line; shallow organic, 2cm grey; sandy soil with a few rocks; duplicate of K17 |

* Jean Marc Gaudreau

2018 Soil Sample Descriptions

| Sample ID | Type | East N83 Z17 | North N83 Z17 | Ground Cover | Site Vegetation | Landform | Depth (cm) | Horizon | Moisture | Sample Colour | Thickness (cm) | Contamination | Sampler * |
|------------|-----------|--------------|---------------|--|---|---|------------|---------|----------|------------------|----------------|-------------------|-----------|
| 2018KTS001 | Regular | 595627 | 5246177 | Grass Cover | small bush | well drained bog,flood area near drainage | 8 | Ah | Moist | Dark Brown | 1-2 | O horizon | K. L-F |
| 2018KTS002 | Regular | 595538 | 5246073 | Leaf Cover,Thin Moss Cover,Deadfall | Birch,Balsam Fir, maple | surrounded by trees,outcrop across entire sample site causing it to be a NS | 10 | Ah | Moist | Dark Brown Black | >2 | O horizon | K. L-F |
| 2018KTS003 | Regular | 595592 | 5246074 | Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Alders,Poplar,Cedar,Balsam Fir | surrounded by trees | 8 | Ah | Moist | Dark Brown Black | 1-2 | O horizon | K. L-F |
| 2018KTS004 | Regular | 595614 | 5246087 | Grass Cover | small bush | well drained bog,flood area near drainage | 15 | Ah | Wet | Dark Brown Black | 1-2 | O horizon | K. L-F |
| 2018KTS005 | Regular | 595629 | 5245971 | Needle Cover,Rock Cover,Deadfall | Alders,Balsam Fir, maple | surrounded by trees | 15 | Ah | Moist | Dark Brown Black | >2 | O horizon | K. L-F |
| 2018KTS006 | Regular | 595577 | 5245974 | Leaf Cover,Thin Moss Cover | Alders,Balsam Fir, maple | surrounded by trees | 4 | Ah | Moist | Black | >2 | | K. L-F |
| 2018KTS007 | Regular | 595531 | 5245978 | Thin Moss Cover,Deadfall | Alders,Poplar, Balsam Fir, maple | surrounded by trees | 4 | Ah | Moist | Dark Brown Black | >2 | | K. L-F |
| 2018KTS008 | Regular | 595523 | 5245875 | Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Alders,Birch,Balsam Fir | surrounded by trees | 4 | Ah | Moist | Black | >2 | | K. L-F |
| 2018KTS009 | Regular | 595577 | 5245873 | Leaf Cover,Needle Cover,Deadfall | Alders,Birch,Poplar,Balsam Fir | surrounded by trees | 10 | Ah | Moist | Dark Grey Black | 1-2 | O, B horizons | K. L-F |
| 2018KTS010 | Regular | 595632 | 5245869 | Deadfall | Alders,Pine | surrounded by trees | 8 | Ah | Moist | Light Brown | >2 | O, B horizons | K. L-F |
| 2018KTS011 | Regular | 595673 | 5245874 | Grass Cover | No Tree Cover | well drained bog,flood area near drainage | 20 | Ah | Wet | Dark Brown Black | >2 | O horizon | K. L-F |
| 2018KTS012 | Regular | 595632 | 5245775 | Sphagnum Moss < 30cm | Birch,Cedar,Balsam Fir, maple | surrounded by trees,stagnant | 15 | Ah | Wet | Black | >2 | O horizon | K. L-F |
| 2018KTS014 | Regular | 595573 | 5245770 | Leaf Cover,Sphagnum Moss < 30cm,Deadfall | Alders,Birch,Cedar | surrounded by trees,stagnant | 10 | Ah | Wet | Black | >2 | | K. L-F |
| 2018KTS015 | Regular | 595517 | 5245770 | Bare Soil,Leaf Cover,Deadfall | Alders,Black Spruce,Birch,Poplar,Balsam Fir | surrounded by trees | 8 | Ah | Moist | Black | >2 | O horizon | K. L-F |
| 2018KTS016 | Regular | 595540 | 5245672 | Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Alders,Black Spruce,Birch,Poplar,Balsam Fir | surrounded by trees | 4 | Ah | Moist | Reddish Brown | >2 | O horizon | K. L-F |
| 2018KTS017 | Regular | 595578 | 5245674 | Grass Cover,Sphagnum Moss < 30cm,Deadfall | Alders,Black Spruce,Balsam Fir | surrounded by trees,stagnant | 8 | Ah | Wet | Dark Brown | >2 | O horizon | K. L-F |
| 2018KTS018 | Regular | 595630 | 5245678 | Sphagnum Moss < 30cm,Thin Moss Cover,Deadfall | Alders,Balsam Fir | surrounded by trees,stagnant | 20 | Ah | Wet | Black | >2 | O horizon | K. L-F |
| 2018KTS019 | Regular | 595679 | 5245679 | Thin Moss Cover | No Tree Cover | outcrop across entire sample site causing it to be a NS | 2 | Ah | Moist | Black | >2 | | K. L-F |
| 2018KTS020 | Duplicate | 595679 | 5245679 | N/A | N/A | | | | | | | | K. L-F |
| 2018KTS021 | Regular | 596119 | 5246370 | Leaf Cover | Balsam Fir, maple | surrounded by trees | 8 | Ah | Moist | Black | >2 | | K. L-F |
| 2018KTS022 | Regular | 596077 | 5246365 | Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Birch,Pine, maple | surrounded by trees | 4 | Ah | Moist | Dark Brown | <1 | O, Ae horizons | K. L-F |
| 2018KTS023 | Regular | 596023 | 5246367 | Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Balsam Fir, maple | surrounded by trees | 4 | Ah | Dry | Dark Brown | <1 | O, Ae horizons | K. L-F |
| 2018KTS024 | Regular | 595981 | 5246368 | Leaf Cover,Needle Cover,Deadfall | Alders,Birch,Clear Cut Old,Balsam Fir | surrounded by trees | 4 | Ah | Moist | Chocolate Brown | <1 | O, Ae horizons | K. L-F |
| 2018KTS025 | Regular | 595926 | 5246374 | Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Alders,Balsam Fir | surrounded by trees | 4 | Ah | Moist | Dark Brown | <1 | O, Ae horizons | K. L-F |
| 2018KTS026 | Regular | 595875 | 5246372 | Thin Moss Cover,Deadfall | Black Spruce,Poplar,Balsam Fir | surrounded by trees | 2 | Ah | Moist | Black | 1-2 | | K. L-F |
| 2018KTS027 | Regular | 595791 | 5246266 | Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Alders,Balsam Fir | surrounded by trees | 2 | Ah | Moist | Dark Brown Black | <1 | B horizon | K. L-F |
| 2018KTS028 | Regular | 595732 | 5246274 | Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Birch,Balsam Fir | surrounded by trees | 4 | Ah | Moist | Reddish Brown | <1 | O horizon | K. L-F |
| 2018KTS029 | Regular | 595729 | 5246172 | Needle Cover | Pine | surrounded by trees | 2 | Ah | Moist | Dark Brown Black | <1 | O horizon | K. L-F |
| 2018KTS030 | Regular | 595774 | 5246171 | Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Alders,Birch,Balsam Fir | surrounded by trees | 4 | Ah | Moist | Black | <1 | O horizon | K. L-F |
| 2018KTS031 | Regular | 595825 | 5246178 | Leaf Cover,Needle Cover,Thin Moss Cover | Birch,Balsam Fir, maple | surrounded by trees | 4 | Ah | Moist | Dark Grey Black | <1 | O, Ae horizons | K. L-F |
| 2018KTS032 | Regular | 595878 | 5246168 | Grass Cover,Leaf Cover,Needle Cover,Thin Moss Cover | Alders,Birch,Poplar,Balsam Fir | surrounded by trees | 2 | Ah | Moist | Black | 1-2 | B horizon | K. L-F |
| 2018KTS034 | Regular | 595931 | 5246281 | Leaf Cover,Needle Cover,Rock Cover,Thin Moss Cover,Deadfall | Alders,Birch,Poplar,Balsam Fir | surrounded by trees | 2 | Ah | Moist | Dark Brown Black | 1-2 | O horizon | K. L-F |
| 2018KTS035 | Regular | 596123 | 5246277 | Leaf Cover | Alders,Birch,Poplar,Balsam Fir | surrounded by trees | 10 | Ah | Moist | Light Brown | >2 | O, B horizons | K. L-F |
| 2018KTS036 | Regular | 596230 | 5246273 | Grass Cover,Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Alders,Pine,Poplar,Balsam Fir | surrounded by trees | 2 | Ah | Moist | Black | 1-2 | O horizon | K. L-F |
| 2018KTS037 | Regular | 596276 | 5246283 | Thin Moss Cover | Black Spruce,Cedar,Balsam Fir, maple | surrounded by trees | 2 | Ah | Moist | Black | >2 | | K. L-F |
| 2018KTS103 | Regular | 596035 | 5244756 | Needle Cover | Alders,Black Spruce,Balsam Fir, raspberry | surrounded by trees,well drained bog | 2 | Ah | Moist | Dark Grey Black | <1 | O, Ae horizons | K. L-F |
| 2018KTS104 | Regular | 596082 | 5244777 | Grass Cover | No Tree Cover | well drained bog | 6 | Ah | Moist | Chocolate Brown | >2 | O, B horizons | K. L-F |
| 2018KTS106 | Regular | 596132 | 5244772 | Sphagnum Moss < 30cm | Poplar,Balsam Fir | surrounded by trees,stagnant | 30 | Ah | Wet | Dark Brown | >2 | O horizon | K. L-F |
| 2018KTS105 | Duplicate | 596083 | 5244779 | N/A | | | | | | | | | K. L-F |
| 2018KTS107 | Regular | 596177 | 5244779 | Thin Moss Cover,Deadfall | Alders,Balsam Fir | surrounded by trees,stagnant | 6 | Ah | Dry | Dark Grey Black | >2 | O, Ae horizons | K. L-F |
| 2018KTS108 | Regular | 596231 | 5244785 | Grass Cover,Leaf Cover | Alders,Balsam Fir | surrounded by trees | 4 | Ah | Moist | Dark Brown | 1-2 | O, B, Ae horizons | K. L-F |
| 2018KTS109 | Regular | 596327 | 5244782 | Thin Moss Cover | Alders,Balsam Fir | grassy, surrounded by trees | 2 | Ah | Moist | Dark Brown Black | <1 | O horizon | K. L-F |
| 2018KTS110 | Regular | 596224 | 5244876 | N/A | No Tree Cover | surrounded by trees | 4 | Ah | Wet | Dark Grey Black | >2 | O, B, Ae horizons | K. L-F |
| 2018KTS046 | Regular | 596175 | 5244873 | N/A | Poplar | surrounded by trees | 4 | Ah | Moist | Dark Grey Black | >2 | | K. L-F |
| 2018KTS047 | Regular | 596133 | 5244878 | Grass Cover | No Tree Cover | stagnant | 6 | Ah | Moist | Dark Grey Black | >2 | | K. L-F |
| 2018KTS048 | Regular | 596083 | 5244867 | Thin Moss Cover | Black Spruce | surrounded by trees,well drained bog | 2 | Ah | Moist | Black | 1-2 | O horizon | K. L-F |
| 2018KTS049 | Regular | 596033 | 5244964 | Grass Cover,Leaf Cover,Needle Cover,Thin Moss Cover | Alders,Black Spruce,Balsam Fir | grassy, surrounded by trees | 6 | Ah | Moist | Black | >2 | | K. L-F |
| 2018KTS050 | Regular | 596127 | 5244981 | Leaf Cover | Poplar, maple | surrounded by trees | 4 | Ah | Dry | Dark Grey Black | >2 | | K. L-F |
| 2018KTS051 | Regular | 596319 | 5246180 | Leaf Cover | Alders,Birch | surrounded by trees | 6 | B | Moist | Light Brown | >2 | B horizon | K. L-F |
| 2018KTS052 | Regular | 596276 | 5246168 | Leaf Cover | Poplar | surrounded by trees | 0 | Ah | Moist | Light Brown | >2 | B horizon | K. L-F |
| 2018KTS054 | Regular | 596232 | 5246173 | Leaf Cover | Alders,Poplar,Balsam Fir | surrounded by trees | 0 | Ah | Moist | Light Grey | >2 | B horizon | K. L-F |
| 2018KTS055 | Regular | 596180 | 5246174 | Leaf Cover | Alders,Poplar,Balsam Fir | surrounded by trees | 4 | Ah | Moist | Light Brown | >2 | B horizon | K. L-F |
| 2018KTS056 | Regular | 596135 | 5246176 | Bare Soil,Leaf Cover,Deadfall | Alders,Poplar,Balsam Fir | surrounded by trees | 0 | Ah | Moist | Light Brown | >2 | B horizon | K. L-F |
| 2018KTS057 | Regular | 596077 | 5246179 | Needle Cover | Pine | surrounded by trees | 2 | Ah | Moist | Light Brown | >2 | O, B horizons | K. L-F |
| 2018KTS058 | Regular | 596028 | 5246164 | Bare Soil,Needle Cover,Deadfall | Poplar,Balsam Fir, maple | surrounded by trees | 2 | Ah | Moist | Dark Brown | >2 | O, Ae horizons | K. L-F |
| 2018KTS059 | Regular | 595980 | 5246175 | Thin Moss Cover,Deadfall | Alders,Poplar,Balsam Fir | surrounded by trees | 0 | Ah | Moist | Black | 1-2 | O horizon | K. L-F |
| 2018KTS060 | Duplicate | 595980 | 5246176 | N/A | | | | | | | | | K. L-F |
| 2018KTS061 | Regular | 595973 | 5246074 | Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Poplar,Balsam Fir | surrounded by trees | 2 | Ah | Moist | Dark Brown | <1 | O, B, Ae horizons | K. L-F |
| 2018KTS062 | Regular | 595929 | 5246087 | Grass Cover,Leaf Cover,Thin Moss Cover,Deadfall | Alders,Birch,Poplar,Balsam Fir | surrounded by trees | 2 | Ah | Moist | Dark Brown | 1-2 | O, Ae horizons | K. L-F |
| 2018KTS063 | Regular | 595884 | 5246088 | Thin Moss Cover | Poplar,Balsam Fir, maple | surrounded by trees,outcrop across entire sample site causing it to be a NS | 0 | Ah | Moist | Black | 1-2 | O horizon | K. L-F |
| 2018KTS064 | Regular | 595834 | 5246075 | Leaf Cover,Needle Cover,Thin Moss Cover | Alders,Pine, maple | surrounded by trees | 4 | Ah | Moist | Black | 1-2 | O horizon | K. L-F |
| 2018KTS065 | Regular | 595775 | 5246073 | Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Black Spruce,Poplar,Tamarack,Balsam Fir | surrounded by trees | 2 | Ah | Moist | Black | 1-2 | O horizon | K. L-F |
| 2018KTS066 | Regular | 595720 | 5246074 | Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Poplar,Balsam Fir, maple | surrounded by trees | 2 | Ah | Moist | Reddish Brown | <1 | O horizon | K. L-F |

2018 Soil Sample Descriptions

| Sample ID | Type | East N83 Z17 | North N83 Z17 | Ground Cover | Site Vegetation | Landform | Depth (cm) | Horizon | Moisture | Sample Colour | Thickness (cm) | Contamination | Sampler * |
|------------|-----------|--------------|---------------|--|---|---|------------|---------|----------|------------------|----------------|-------------------|-----------|
| 2018KTS067 | Regular | 595680 | 5246070 | Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Alders,Balsam Fir | surrounded by trees | 4 | Ah | Moist | Light Brown | >2 | O ,B ,Ae horizons | K. L-F |
| 2018KTS068 | Regular | 595724 | 5245969 | Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Alders,Balsam Fir | surrounded by trees | 4 | Ah | Moist | Dark Brown | >2 | | K. L-F |
| 2018KTS069 | Regular | 595830 | 5245977 | Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Alders,Poplar,Balsam Fir | surrounded by trees,outcrop across entire sample site causing it to be a NS | 2 | Ah | Moist | Dark Brown Black | >2 | O horizon | K. L-F |
| 2018KTS102 | Regular | 595874 | 5245978 | Needle Cover,Thin Moss Cover | Balsam Fir | surrounded by trees,outcrop across entire sample site causing it to be a NS | 2 | Ah | Moist | Black | >2 | O horizon | K. L-F |
| 2018KTS038 | Regular | 595938 | 5245972 | Leaf Cover,Thin Moss Cover,Deadfall | Poplar, maple | surrounded by trees | 4 | Ah | Moist | Chocolate Brown | >2 | O horizon | K. L-F |
| 2018KTS039 | Regular | 595976 | 5245976 | Leaf Cover,Needle Cover,Thin Moss Cover | Birch,Poplar,Balsam Fir, maple | surrounded by trees,outcrop across entire sample site causing it to be a NS | 0 | Ah | Moist | Dark Brown Black | 1-2 | O horizon | K. L-F |
| 2018KBS185 | Regular | 596437 | 5245274 | Leaf Cover,Thin Moss Cover | Alders, fern | surrounded by trees | 2 | Ah | Moist | Black | >2 | | K.B. |
| 2018KBS186 | Regular | 596377 | 5245275 | Leaf Cover | Birch,Balsam Fir, maple, fern | surrounded by trees | 0 | Ah | Moist | Dark Brown Black | <1 | O horizon | K.B. |
| 2018KBS187 | Regular | 596280 | 5245273 | Leaf Cover,Needle Cover,Deadfall | Alders,Birch,Balsam Fir, maple | surrounded by trees | 2 | Ah | Moist | Black | <1 | O, Ae horizons | K.B. |
| 2018KBS188 | Regular | 596222 | 5245275 | Leaf Cover | Alders,Birch, maple | surrounded by trees | 2 | Ah | Dry | Dark Grey Black | <1 | Ae horizon | K.B. |
| 2018KBS189 | Regular | 596179 | 5245276 | Leaf Cover | Alders,Birch, fern | surrounded by trees | 4 | Ah | Moist | Dark Grey Black | 1-2 | Ae horizon | K.B. |
| 2018KBS190 | Regular | 596125 | 5245282 | Leaf Cover,Needle Cover | Alders,Pine,Balsam Fir, maple | surrounded by trees | 6 | Ah | Moist | Black | 1-2 | | K.B. |
| 2018KBS191 | Regular | 596070 | 5245283 | Leaf Cover,Needle Cover,Thin Moss Cover | Alders,Pine,Balsam Fir | surrounded by trees | 6 | Ah | Moist | Black | 1-2 | | K.B. |
| 2018KBS192 | Regular | 596030 | 5245277 | Needle Cover,Thin Moss Cover | Pine | grassy,surrounded by trees | 0 | Ah | Dry | Dark Grey Black | <1 | Ae horizon | K.B. |
| 2018KBS199 | Regular | 596026 | 5245368 | Leaf Cover,Needle Cover,Thin Moss Cover | Alders,Pine,Balsam Fir | surrounded by trees | 6 | Ah | Moist | Black | >2 | | K.B. |
| 2018KBS200 | Duplicate | 596027 | 5245372 | N/A | | | | | | | | | K.B. |
| 2018KBS194 | Regular | 596079 | 5245373 | Leaf Cover,Needle Cover | Black Spruce,Balsam Fir, maple | surrounded by trees | 2 | Ah | Moist | Black | 1-2 | O horizon | K.B. |
| 2018KBS195 | Regular | 596127 | 5245374 | Leaf Cover | Alders,Birch | surrounded by trees | 2 | Ah | Moist | Dark Brown Black | <1 | O, Ae horizons | K.B. |
| 2018KBS196 | Regular | 596174 | 5245373 | Leaf Cover,Deadfall | Alders,Black Spruce,Birch, maple | surrounded by trees | 4 | Ah | Moist | Dark Brown Black | <1 | O horizon | K.B. |
| 2018KBS197 | Regular | 596226 | 5245373 | Leaf Cover | Alders,Black Spruce, maple | surrounded by trees | 6 | Ah | Dry | Black | 1-2 | | K.B. |
| 2018KBS198 | Regular | 596292 | 5245373 | Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Pine,Balsam Fir, maple | surrounded by trees | 10 | Ah | Moist | Black | 1-2 | O horizon | K.B. |
| 2018KBS201 | Regular | 596326 | 5245374 | Leaf Cover,Thin Moss Cover | Alders,Balsam Fir | surrounded by trees | 4 | Ah | Moist | Black | >2 | | K.B. |
| 2018KBS202 | Regular | 596375 | 5245380 | Leaf Cover | Alders,Birch, maple | surrounded by trees | 2 | Ah | Moist | Black | <1 | O horizon | K.B. |
| 2018KBS203 | Regular | 596322 | 5245671 | Leaf Cover | Maple, Fern, Unknown | surrounded by trees | 2 | Ah | Moist | Black | 1-2 | | K.B. |
| 2018KBS204 | Regular | 596279 | 5245678 | Leaf Cover | Alders,Birch,Balsam Fir, maple | surrounded by trees | 4 | Ah | Moist | Dark Brown Black | <1 | O horizon | K.B. |
| 2018KBS205 | Regular | 596228 | 5245669 | Leaf Cover,Needle Cover | Birch,Balsam Fir, maple | surrounded by trees | 2 | Ah | Dry | Black | 1-2 | O horizon | K.B. |
| 2018KBS206 | Regular | 596184 | 5245671 | Leaf Cover | Alders,Birch, maple, fern | surrounded by trees | 2 | Ah | Moist | Black | 1-2 | | K.B. |
| 2018KBS207 | Regular | 596133 | 5245678 | Leaf Cover | Alders,Birch,Balsam Fir, maple | surrounded by trees | 2 | Ah | Moist | Black | 1-2 | O horizon | K.B. |
| 2018KBS208 | Regular | 596083 | 5245665 | Leaf Cover | Alders,Black Spruce,Birch,Balsam Fir, maple | surrounded by trees | 2 | Ah | Dry | Dark Brown Black | 1-2 | O horizon | K.B. |
| 2018KBS209 | Regular | 595983 | 5245674 | Leaf Cover | Alders,Birch, fern | surrounded by trees | 4 | Ah | Moist | Black | 1-2 | Ae horizon | K.B. |
| 2018KBS210 | Regular | 595882 | 5245681 | Leaf Cover,Needle Cover | Alders,Pine,Balsam Fir, maple | surrounded by trees | 0 | Ah | Moist | Black | <1 | O horizon | K.B. |
| 2018KBS211 | Regular | 595837 | 5245675 | Leaf Cover,Needle Cover | Alders,Pine | surrounded by trees | 4 | Ah | Dry | Black | 1-2 | Ae horizon | K.B. |
| 2018KBS212 | Regular | 595779 | 5245675 | Leaf Cover,Needle Cover,Thin Moss Cover | Alders,Pine,Balsam Fir | surrounded by trees | 2 | Ah | Moist | Black | 1-2 | | K.B. |
| 2018KTS040 | Regular | 596422 | 5245978 | Leaf Cover | Alders,Poplar,Balsam Fir | surrounded by trees | 2 | Ah | Moist | Dark Grey Black | 1-2 | O ,B ,Ae horizons | K. L-F |
| 2018KTS041 | Duplicate | 596422 | 5245979 | N/A | | | | | | | | | K. L-F |
| 2018KTS042 | Regular | 596469 | 5245983 | Bare Soil,Leaf Cover | Alders | surrounded by trees | 0 | Ah | Moist | Dark Grey Black | <1 | O, Ae horizons | K. L-F |
| 2018KTS043 | Regular | 596418 | 5246075 | Bare Soil,Leaf Cover,Deadfall | Birch | surrounded by trees | 2 | Ah | Moist | Dark Grey Black | >2 | | K. L-F |
| 2018KTS044 | Regular | 596380 | 5246075 | Bare Soil,Leaf Cover,Needle Cover | Birch,Poplar,Balsam Fir, maple | surrounded by trees | 0 | Ah | Moist | Light Grey | <1 | Ae horizon | K. L-F |
| 2018KTS045 | Regular | 596376 | 5246077 | Thin Moss Cover,Deadfall | Alders,Birch, maple | surrounded by trees | 0 | Ah | Moist | Chocolate Brown | >2 | | K. L-F |
| 2018KTS070 | Regular | 596331 | 5246075 | Leaf Cover | Alders,Birch,Poplar | surrounded by trees | 2 | Ah | Moist | Dark Grey Black | <1 | O, Ae horizons | K. L-F |
| 2018KTS071 | Regular | 596276 | 5246072 | Leaf Cover | Alders,Poplar, maple | surrounded by trees | 2 | Ah | Moist | Chocolate Brown | <1 | Ae horizon | K. L-F |
| 2018KTS072 | Regular | 596230 | 5246073 | Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Alders,Poplar,Balsam Fir | surrounded by trees | 0 | Ah | Moist | Dark Brown | <1 | O ,B ,Ae horizons | K. L-F |
| 2018KTS074 | Regular | 596185 | 5246068 | Thin Moss Cover,Deadfall | Alders,Poplar,Balsam Fir | surrounded by trees | 2 | Ah | Moist | Black | 1-2 | | K. L-F |
| 2018KTS075 | Regular | 596138 | 5246075 | Leaf Cover,Thin Moss Cover,Deadfall | Alders,Birch,Poplar, maple | surrounded by trees | 2 | Ah | Moist | Dark Brown Black | >2 | O horizon | K. L-F |
| 2018KTS076 | Regular | 596083 | 5246077 | Bare Soil,Leaf Cover,Needle Cover,Deadfall | Alders,Pine,Poplar,Balsam Fir | surrounded by trees | 4 | Ah | Moist | Chocolate Brown | >2 | | K. L-F |
| 2018KTS077 | Regular | 596028 | 5246070 | Leaf Cover,Needle Cover,Deadfall | Alders,Poplar,Balsam Fir | surrounded by trees | 2 | Ah | Moist | Dark Brown Black | 1-2 | | K. L-F |
| 2018KTS078 | Regular | 596034 | 5245967 | Bare Soil,Thin Moss Cover,Deadfall | Alders,Poplar, maple | surrounded by trees | 0 | Ah | Moist | Dark Brown Black | <1 | O horizon | K. L-F |
| 2018KTS079 | Regular | 596082 | 5245976 | Bare Soil,Leaf Cover,Deadfall | Alders,Birch,Poplar | surrounded by trees | 2 | Ah | Moist | Dark Brown Black | <1 | O, Ae horizons | K. L-F |
| 2018KTS080 | Duplicate | 596077 | 5245975 | N/A | | | | | | | | | K. L-F |
| 2018KTS081 | Regular | 596131 | 5245980 | Leaf Cover | Birch,Poplar,Balsam Fir, maple | surrounded by trees | 0 | Ah | Moist | Black | 1-2 | O, Ae horizons | K. L-F |
| 2018KTS082 | Regular | 596174 | 5245979 | Leaf Cover,Needle Cover | Alders,Balsam Fir, maple | surrounded by trees | 6 | Ah | Moist | Black | >2 | O horizon | K. L-F |
| 2018KTS083 | Regular | 596223 | 5245966 | Thin Moss Cover | Birch,Poplar, maple | grassy,outcrop across entire sample site causing it to be a NS | 2 | Ah | Moist | Black | >2 | O horizon | K. L-F |
| 2018KTS084 | Regular | 596282 | 5245971 | Bare Soil,Leaf Cover,Needle Cover | Alders,Poplar,Balsam Fir | surrounded by trees | 4 | Ah | Dry | Light Brown | >2 | B horizon | K. L-F |
| 2018KTS085 | Regular | 596320 | 5245977 | Bare Soil,Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Alders,Poplar,Balsam Fir | surrounded by trees | 4 | Ah | Moist | Dark Grey Black | >2 | B horizon | K. L-F |
| 2018KNS002 | Regular | 596482 | 5245580 | Grass Cover,Leaf Cover,Needle Cover,Thin Moss Cover | Alders,Black Spruce,Birch, fern | surrounded by trees | 2 | Ah | Dry | | >2 | O horizon | K. N. |
| 2018KNS003 | Regular | 596431 | 5245561 | Leaf Cover,Needle Cover | Alders,Birch, maple | surrounded by trees | 2 | Ah | Dry | | >2 | O, Ae horizons | K. N. |
| 2018KNS004 | Regular | 596382 | 5245568 | Grass Cover,Leaf Cover,Needle Cover | Alders,Black Spruce,Birch, maple | surrounded by trees | 0 | Ah | Dry | Light Brown | >2 | B horizon | K. N. |
| 2018KNS005 | Regular | 596326 | 5245572 | Leaf Cover | Alders,Black Spruce,Birch, fern | surrounded by trees | 0 | Ah | Dry | | >2 | B horizon | K. N. |
| 2018KNS006 | Regular | 596284 | 5245572 | Leaf Cover | Alders,Birch, maple and fern | surrounded by trees | 0 | Ah | Dry | | >2 | O, Ae horizons | K. N. |
| 2018KNS007 | Regular | 596228 | 5245575 | Leaf Cover,Needle Cover | Black Spruce,Birch, maple, fern | surrounded by trees | 2 | Ah | Moist | Black | 1-2 | O, Ae horizons | K. N. |
| 2018KNS008 | Regular | 596180 | 5245583 | Leaf Cover | Alders,Black Spruce,Birch, fern | surrounded by trees | 2 | Ah | Moist | Black | 1-2 | O, Ae horizons | K. N. |
| 2018KNS009 | Regular | 596133 | 5245577 | Leaf Cover | Alders,Black Spruce,Birch, fern | surrounded by trees | 0 | Ah | Moist | | >2 | Ae horizon | K. N. |
| 2018KNS010 | Regular | 596086 | 5245570 | Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Alders,Birch, fern | surrounded by trees | 0 | Ah | Dry | Dark Grey Black | >2 | O, Ae horizons | K. N. |

2018 Soil Sample Descriptions

| Sample ID | Type | East N83 Z17 | North N83 Z17 | Ground Cover | Site Vegetation | Landform | Depth (cm) | Horizon | Moisture | Sample Colour | Thickness (cm) | Contamination | Sampler * |
|------------|-----------|--------------|---------------|--|---|---|------------|---------|----------|------------------|----------------|----------------|-----------|
| 2018KNS011 | Regular | 596030 | 5245568 | Leaf Cover,Needle Cover | Alders,Black Spruce,Birch, fern | surrounded by trees | 2 | Ah | Moist | Dark Brown Black | 1-2 | O, Ae horizons | K. N. |
| 2018KNS012 | Regular | 595974 | 5245567 | Leaf Cover,Needle Cover,Thin Moss Cover | Alders,Black Spruce,Birch, fern | surrounded by trees | 2 | Ah | Moist | Dark Brown Black | 1-2 | O, Ae horizons | K. N. |
| 2018KNS014 | Regular | 595929 | 5245576 | Leaf Cover,Needle Cover,Sphagnum Moss < 30cm,Thin Moss Cover | Alders,Black Spruce,Birch | surrounded by trees | 2 | Ah | Moist | Dark Brown Black | 1-2 | O, Ae horizons | K. N. |
| 2018KNS015 | Regular | 595935 | 5245474 | Grass Cover,Leaf Cover,Needle Cover,Deadfall | Alders,Black Spruce, fern | surrounded by trees | 2 | Ah | Moist | Dark Brown Black | 1-2 | O horizon | K. N. |
| 2018KNS016 | Regular | 595975 | 5245478 | Leaf Cover,Needle Cover,Thin Moss Cover | Alders,Black Spruce,Birch | surrounded by trees | 0 | Ah | Moist | Black | >2 | O, Ae horizons | K. N. |
| 2018KNS017 | Regular | 596030 | 5245469 | Grass Cover,Leaf Cover,Needle Cover,Thin Moss Cover | Alders,Black Spruce,Birch,Pine, fern, maple | surrounded by trees | 0 | Ah | Moist | Black | >2 | O horizon | K. N. |
| 2018KNS018 | Regular | 596078 | 5245472 | Grass Cover,Leaf Cover,Needle Cover | Alders,Black Spruce,Birch, fern | surrounded by trees | 2 | Ah | Moist | Black | 1-2 | O, Ae horizons | K. N. |
| 2018KNS019 | Regular | 596125 | 5245473 | Grass Cover,Leaf Cover,Thin Moss Cover | Alders,Birch | surrounded by trees | 2 | Ah | Moist | Black | 1-2 | O, Ae horizons | K. N. |
| 2018KNS020 | Duplicate | 596131 | 5245467 | N/A | | | | | | | | | K. N. |
| 2018KNS021 | Regular | 596177 | 5245480 | Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Alders,Black Spruce,Birch, fern | surrounded by trees | 2 | Ah | Moist | Dark Grey Black | >2 | | K. N. |
| 2018KNS022 | Regular | 596278 | 5245482 | Grass Cover,Needle Cover,Thin Moss Cover | Alders,Birch,Pine | outcrop across entire sample site causing it to be a NS | 0 | Ah | Moist | Dark Brown Black | <1 | O horizon | K. N. |
| 2018KNS023 | Regular | 596383 | 5245491 | Leaf Cover,Thin Moss Cover | Alders,Birch | outcrop across entire sample site causing it to be a NS | 0 | Ah | Moist | Dark Brown Black | <1 | O horizon | K. N. |
| 2018KNS024 | Regular | 596481 | 5245480 | Leaf Cover,Thin Moss Cover,Deadfall | Alders,Birch,Pine, fern | surrounded by trees | 2 | Ah | Dry | Dark Grey Black | >2 | O horizon | K. N. |
| 2018KNS025 | Regular | 596431 | 5245390 | Leaf Cover,Needle Cover,Deadfall | Alders,Birch,Pine | surrounded by trees | 2 | Ah | Dry | Dark Brown Black | 1-2 | O, Ae horizons | K. N. |
| 2018KNS026 | Regular | 596481 | 5245772 | Grass Cover,Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Alders,Birch,Balsam Fir, fern | surrounded by trees | 2 | Ah | Dry | Light Brown | 1-2 | O, B horizons | K. N. |
| 2018KNS027 | Regular | 596422 | 5245777 | Grass Cover,Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Alders,Birch,Balsam Fir, fern | surrounded by trees | 2 | Ah | Moist | Dark Brown Black | 1-2 | O, Ae horizons | K. N. |
| 2018KNS028 | Regular | 596384 | 5245774 | Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Alders,Birch,Balsam Fir, maple, fern | surrounded by trees,outcrop across entire sample site causing it to be a NS | 0 | Ah | Moist | Dark Brown Black | 1-2 | O horizon | K. N. |
| 2018KNS029 | Regular | 596323 | 5245776 | Leaf Cover,Needle Cover,Deadfall | Alders,Birch,Balsam Fir, fern, maple | surrounded by trees | 0 | Ah | Moist | Dark Brown Black | 1-2 | O, Ae horizons | K. N. |
| 2018KNS030 | Regular | 596281 | 5245773 | Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Alders,Birch,Balsam Fir, maple | surrounded by trees | 2 | Ah | Moist | Black | >2 | O horizon | K. N. |
| 2018KNS031 | Regular | 596229 | 5245779 | Grass Cover,Leaf Cover,Needle Cover | Alders,Birch,Balsam Fir, fern | surrounded by trees | 2 | Ah | Moist | Dark Brown Black | 1-2 | O, Ae horizons | K. N. |
| 2018KNS032 | Regular | 596177 | 5245790 | Leaf Cover,Needle Cover,Deadfall | Alders,Birch,Balsam Fir, maple | surrounded by trees | 2 | Ah | Moist | Dark Brown Black | 1-2 | O, Ae horizons | K. N. |
| 2018KNS034 | Regular | 596129 | 5245774 | Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Alders,Birch,Balsam Fir, fern | surrounded by trees | 2 | Ah | Moist | Black | 1-2 | O, Ae horizons | K. N. |
| 2018KNS035 | Regular | 596082 | 5245776 | Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Alders,Birch,Balsam Fir, maple and fern | surrounded by trees | 2 | Ah | Dry | Dark Grey Black | 1-2 | O, Ae horizons | K. N. |
| 2018KNS039 | Regular | 596029 | 5245776 | Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Alders,Birch,Balsam Fir, maple and fern | surrounded by trees | 0 | Ah | Moist | Light Brown | >2 | Ae horizon | K. N. |
| 2018KNS039 | Duplicate | 596023 | 5245772 | N/A | | | | | | | | | K. N. |
| 2018KNS036 | Regular | 595927 | 5245779 | Grass Cover,Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Alders,Birch,Balsam Fir | grassy | 2 | Ah | Dry | | >2 | Ae horizon | K. N. |
| 2018KNS037 | Regular | 595886 | 5245779 | Leaf Cover,Needle Cover,Thin Moss Cover | Alders,Birch,Balsam Fir, fern | surrounded by trees | 2 | Ah | Moist | Black | 1-2 | O horizon | K. N. |
| 2018KNS038 | Regular | 595775 | 5245772 | Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Alders,Birch,Balsam Fir, fern | surrounded by trees | 2 | Ah | Moist | | >2 | O, Ae horizons | K. N. |
| 2018KNS041 | Regular | 595732 | 5245773 | Leaf Cover,Rock Cover,Sphagnum Thin Moss Cover < 30cm,Deadfall | Alders,Birch,Balsam Fir, fern | surrounded by trees | 2 | Ah | Moist | Black | 1-2 | O horizons | K. N. |
| 2018KNS042 | Regular | 595755 | 5244771 | Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Alders,Birch,Balsam Fir, fern | surrounded by trees | 0 | Ah | Moist | Dark Brown Black | <1 | O horizon | K. N. |
| 2018KNS043 | Regular | 595698 | 5244774 | Leaf Cover,Thin Moss Cover,Deadfall | Alders,Birch,Pine,Balsam Fir, maple | surrounded by trees | 0 | Ah | Moist | Dark Brown Black | <1 | O horizon | K. N. |
| 2018KNS044 | Regular | 595597 | 5244871 | Leaf Cover,Needle Cover,Rock Cover,Thin Moss Cover,Deadfall | Birch,Pine,Balsam Fir, maple | surrounded by trees | 2 | Ah | Moist | Dark Brown Black | 1-2 | O horizon | K. N. |
| 2018KNS045 | Regular | 595655 | 5244870 | Leaf Cover,Needle Cover,Rock Cover,Thin Moss Cover,Deadfall | Alders,Birch,Pine,Balsam Fir, maple | surrounded by trees | 2 | Ah | Moist | Dark Brown Black | 1-2 | O horizon | K. N. |
| 2018KNS046 | Regular | 595703 | 5244865 | Leaf Cover,Needle Cover,Rock Cover,Thin Moss Cover,Deadfall | Alders,Birch,Balsam Fir, maple | surrounded by trees | 4 | Ah | Moist | Chocolate Brown | 1-2 | O horizon | K. N. |
| 2018KNS047 | Regular | 595757 | 5244878 | Leaf Cover,Needle Cover,Deadfall | Alders,Birch,Balsam Fir, fern | grassy | 0 | Ah | Dry | Dark Grey Black | 1-2 | O, Ae horizons | K. N. |
| 2018KNS048 | Regular | 595753 | 5244978 | Leaf Cover,Needle Cover,Deadfall | Alders,Birch,Balsam Fir, fern | grassy | 2 | Ah | Moist | Black | 1-2 | O, Ae horizons | K. N. |
| 2018KNS049 | Regular | 595706 | 5244965 | Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Alders,Balsam Fir, fern | surrounded by trees | 2 | Ah | Dry | Dark Brown Black | 1-2 | O, Ae horizons | K. N. |
| 2018KNS050 | Regular | 595650 | 5244960 | Leaf Cover,Needle Cover,Deadfall | Alders,Balsam Fir, fern | surrounded by trees | 2 | Ah | Moist | Dark Brown Black | 1-2 | O horizon | K. N. |
| 2018KNS051 | Regular | 595606 | 5244963 | Needle Cover,Rock Cover,Deadfall | Alders,Birch,Pine,White Spruce, fern, maple | surrounded by trees | 2 | Ah | Moist | Dark Brown Black | 1-2 | O, Ae horizons | K. N. |
| 2018KNS052 | Regular | 595555 | 5244974 | Leaf Cover,Needle Cover,Rock Cover,Deadfall | Alders,Birch,Pine,White Spruce,Balsam Fir, fern | surrounded by trees | 2 | Ah | Moist | Dark Brown Black | 1-2 | O horizon | K. N. |
| 2018KNS054 | Regular | 595647 | 5245065 | Leaf Cover,Needle Cover,Rock Cover,Thin Moss Cover,Deadfall | Alders,Birch,Balsam Fir, maple | surrounded by trees | 0 | Ah | Wet | Dark Brown Black | <1 | O horizon | K. N. |
| 2018KNS055 | Regular | 595705 | 5245072 | Leaf Cover,Needle Cover,Rock Cover,Thin Moss Cover,Deadfall | Alders,Birch,Balsam Fir, maple | surrounded by trees | 2 | Ah | Moist | Black | 1-2 | | K. N. |
| 2018KNS056 | Regular | 595756 | 5245064 | Leaf Cover,Needle Cover,Rock Cover,Thin Moss Cover,Deadfall | Alders,Birch,Balsam Fir, maple and fern | surrounded by trees | 2 | Ah | Dry | Dark Brown Black | 1-2 | O horizon | K. N. |
| 2018KTS086 | Regular | 595727 | 5245865 | Leaf Cover,Needle Cover,Deadfall | Alders,Birch,Balsam Fir | surrounded by trees | 2 | Ah | Moist | Black | 1-2 | O horizon | K. L-F. |
| 2018KTS087 | Regular | 595825 | 5245873 | Leaf Cover,Thin Moss Cover,Deadfall | Alders,Poplar | surrounded by trees | 4 | Ah | Dry | Light Brown | >2 | O, Ae horizons | K. L-F. |
| 2018KTS088 | Regular | 595881 | 5245871 | Thin Moss Cover | Alders,Poplar | surrounded by trees,outcrop across entire sample site causing it to be a NS | 4 | Ah | Moist | Black | >2 | | K. L-F. |
| 2018KTS089 | Regular | 595929 | 5245868 | Leaf Cover,Needle Cover,Rock Cover,Thin Moss Cover,Deadfall | Alders,Pine, maple | surrounded by trees,outcrop across entire sample site causing it to be a NS | 2 | Ah | Moist | Dark Brown Black | >2 | O horizon | K. L-F. |
| 2018KTS090 | Regular | 595971 | 5245875 | Leaf Cover | Birch,Balsam Fir, maple | surrounded by trees | 2 | Ah | Moist | Black | <1 | O horizon | K. L-F. |
| 2018KTS091 | Regular | 596025 | 5245874 | Leaf Cover,Thin Moss Cover,Deadfall | Alders,Poplar | surrounded by trees | 4 | Ah | Moist | Black | >2 | Ae horizon | K. L-F. |
| 2018KTS092 | Regular | 596076 | 5245875 | Leaf Cover,Needle Cover,Deadfall | Poplar,Balsam Fir, maple | surrounded by trees | 6 | Ah | Moist | Black | >2 | | K. L-F. |
| 2018KTS094 | Regular | 596124 | 5245877 | Leaf Cover | Alders,Birch, maple | surrounded by trees | 10 | Ah | Moist | Black | >2 | | K. L-F. |
| 2018KTS095 | Regular | 596178 | 5245871 | Leaf Cover,Needle Cover,Deadfall | Birch,Balsam Fir, maple | surrounded by trees | 6 | Ah | Moist | Dark Brown Black | 1-2 | O, Ae horizons | K. L-F. |
| 2018KTS096 | Regular | 596229 | 5245879 | Leaf Cover,Needle Cover | Alders,Birch,Balsam Fir, maple | stagnant | 4 | Ah | Moist | Dark Brown Black | 1-2 | | K. L-F. |
| 2018KTS097 | Regular | 596273 | 5245880 | Leaf Cover,Needle Cover | Alders,Birch,Tamarack,Balsam Fir, maple | surrounded by trees | 2 | Ah | Moist | Dark Brown Black | 1-2 | O horizon | K. L-F. |
| 2018KTS098 | Regular | 596329 | 5245868 | Leaf Cover,Needle Cover,Thin Moss Cover,Deadfall | Alders,Pine,Poplar,Balsam Fir | surrounded by trees | 4 | Ah | Moist | Dark Brown | <1 | O horizon | K. L-F. |
| 2018KTS099 | Regular | 596374 | 5245881 | Leaf Cover | Alders,Birch,Poplar, maple | surrounded by trees | 2 | Ah | Moist | Dark Grey Black | <1 | O, Ae horizons | K. L-F. |
| 2018KTS100 | Duplicate | 596374 | 5245881 | N/A | | | | | | | | | K. L-F. |
| 2018KTS101 | Regular | 596426 | 5245889 | Bare Soil | Alders,Poplar | surrounded by trees | 0 | Ah | Moist | Dark Brown | >2 | | K. L-F. |
| 2018KBS219 | Regular | 595754 | 5245171 | Leaf Cover | Birch,Balsam Fir, maple | surrounded by trees | 2 | Ah | Moist | Black | >2 | | K. B. |
| 2018KBS220 | Duplicate | 595747 | 5245168 | N/A | | | | | | | | | K. B. |
| 2018KBS214 | Regular | 595704 | 5245167 | Leaf Cover | Balsam Fir, maple | surrounded by trees | 2 | Ah | Moist | Black | 1-2 | | K. B. |
| 2018KBS215 | Regular | 595649 | 5245166 | Leaf Cover | Birch,Balsam Fir, maple | surrounded by trees | 4 | Ah | Moist | Dark Brown Black | <1 | O horizon | K. B. |
| 2018KBS216 | Regular | 595604 | 5245172 | Leaf Cover | Maple, Fern | surrounded by trees | 2 | Ah | Moist | Black | 1-2 | | K. B. |

2018 Soil Sample Descriptions

| Sample ID | Type | East N83 Z17 | North N83 Z17 | Ground Cover | Site Vegetation | Landform | Depth (cm) | Horizon | Moisture | Sample Colour | Thickness (cm) | Contamination | Sampler * |
|------------|-----------|--------------|---------------|-----------------------------------|--------------------------------|---|------------|---------|----------|------------------|----------------|----------------|-----------|
| 2018KBS217 | Regular | 595550 | 5245175 | Leaf Cover | Alders,Birch, maple | surrounded by trees | 2 | Ah | Moist | Black | 1-2 | | K. B. |
| 2018KBS218 | Regular | 595501 | 5245174 | Needle Cover,Sphagnum Moss < 30cm | Alders,Pine, maple , fern | surrounded by trees,outcrop across entire sample site causing it to be a NS | 2 | Ah | Moist | Dark Grey Black | 1-2 | | K. B. |
| 2018KBS221 | Regular | 595450 | 5245167 | Needle Cover | Pine, maple | surrounded by trees,outcrop across entire sample site causing it to be a NS | 0 | Ah | Dry | Dark Brown | <1 | O horizon | K. B. |
| 2018KBS222 | Regular | 595505 | 5245055 | Leaf Cover,Needle Cover | Birch,Pine | surrounded by trees,outcrop across entire sample site causing it to be a NS | 4 | Ah | Dry | Dark Brown Black | 1-2 | O horizon | K. B. |
| 2018KBS223 | Regular | 595558 | 5245059 | Needle Cover | Pine,Balsam Fir, maple | surrounded by trees,outcrop across entire sample site causing it to be a NS | 2 | Ah | Dry | Dark Brown Black | <1 | O horizon | K. B. |
| 2018KBS224 | Regular | 595602 | 5245062 | Leaf Cover | Alders,Black Spruce,Balsam Fir | surrounded by trees | 4 | Ah | Moist | Black | >2 | O horizon | K. B. |
| 2018KNS001 | Regular | 596024 | 5245077 | leafs grass needles small moss | spruce alders, fern | surrounded by trees | 0 | Ah | | | <1 | O horizon | K. N. |
| 2018KBS184 | Regular | 596028 | 5245173 | Leaf, Needle Cover | Adler, sycamore, fern | surrounded by trees | 0 | Ah | Moist | Dark grey black | 1-2 | Ae horizon | K. B. |
| 2018KBS183 | Regular | 596128 | 5245182 | Leaf, grass cover | no tree cover, fern | feild, forest | 2 | Ah | Moist | Black | 1-2 | | K. B. |
| 2018KBS181 | Regular | 596175 | 5245178 | Leaf cover, deadfall | Birch, fir, maple | surrounded by trees | 4 | Ah | Moist | Black | 1 | Ae horizon | K. B. |
| 2018KBS182 | Regular | 596229 | 5245175 | Leaf cover | Alder, birch | surrounded by trees | 2 | Ah | Moist | Black | 1-2 | O, Ae horizons | K. B. |
| 2018KBS178 | Regular | 595929 | 5245276 | Leaf, grass cover | alder, fir | surrounded by trees | 2 | Ah | Dry | Dark grey | 30 | | K. B. |
| 2018KBS179 | Regular | 595932 | 5245374 | leaf, deadfall | alder | surrounded by trees | 0 | Ah | Dry | Black | 15 | | K. B. |
| 2018KBS180 | Duplicate | 595933 | 5245374 | N/A | | | | | | | | | K. B. |

* Kaylyn Niemetz (K. N.), Karys Leonard-Fortune (K. L-F), Katelynn Brown (K.B.)

2018 Rock Sample Descriptions

| Sample ID | Date | East N83 Z17 | North N83 Z17 | Prospect | Lithology | Grain Size | Type | qtz | flds | amph | pyx | carb | sx | ox | py | apy | cpy | other | Alteration | Intensity | Magnetism | Veining | Width (cm) | Strike | Dip | Other structure | Relief | Sampler* | | | |
|------------|-----------|-----------------|------------------|---------------|---------------------------------|--------------------------------|---------|-----|------|------|-----|------|----|----|-----|-----|-----|--------|---------------|-------------|-----------|---------|---------------|-----------|-----|--------------------|--------|-----------------------|------|------|------|
| 2018KBP031 | 9-Aug-18 | 595757 | 5244887 | Pit #12 Float | cal-flds breccia | fine | float | 0 | 30 | 0 | 25 | 39 | 1 | 5 | 100 | 0 | 0 | | chl, kaol | very strong | N/A | | N/A | N/A | N/A | | | K. B., K. N., K. L-F. | | | |
| 2018KBP032 | 9-Aug-18 | 595767 | 5244889 | Pit #12 Vein | cal and k-spar vein in diabase | fine | outcrop | 0 | 40 | 0 | 55 | 0 | 5 | 0 | 50 | 50 | 0 | | chl | strong | mod | | 0.5 | 150 | 75 | | | K. B., K. N., K. L-F. | | | |
| 2018KBP033 | 9-Aug-18 | 595767 | 5244889 | Pit #12 Vein | cal and k-spar vein in diabase | aphanitic diabase, fine k-spar | outcrop | 5 | 64 | 0 | 10 | 20 | 1 | 0 | 100 | 0 | 0 | | chl, kaol | mod | N/A | | 3 | 60 | 70 | | | K. B., K. N., K. L-F. | | | |
| 2018KBP034 | 9-Aug-18 | 595767 | 5244889 | Pit #12 Vein | cal and k-spar vein in diabase | fine | outcrop | 5 | 70 | 0 | 10 | 15 | 0 | 0 | 0 | 0 | 0 | | kaol | mod | N/A | | 3 | 60 | 70 | | | K. B., K. N., K. L-F. | | | |
| 2018KBP035 | 9-Aug-18 | 595580 | 5245920 | Pit #14 | diabase | med | outcrop | 0 | 59 | 0 | 37 | 0 | 3 | 1 | 70 | 30 | 0 | | chl, kaol | mod | N/A | | N/A | N/A | N/A | | | K. B., K. N., K. L-F. | | | |
| 2018KBP036 | 9-Aug-18 | 595580 | 5245920 | Pit #14 | granite | fine | float | 25 | 70 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | | Si, K | strong | N/A | | N/A | N/A | N/A | | | K. B., K. N., K. L-F. | | | |
| 2018KBP037 | 9-Aug-18 | 595580 | 5245920 | Pit #14 | granite | fine (crystalline) | float | 45 | 52 | 0 | 0 | 0 | 3 | 0 | 70 | 0 | 30 | | Si | mod | N/A | | >25 | N/A | N/A | | | K. B., K. N., K. L-F. | | | |
| 2018KBP038 | 8-Aug-18 | 595840 | 5245955 | Pit #4 | diabase | med | float | 0 | 50 | 0 | 40 | 0 | 0 | 10 | 0 | 0 | 0 | | N/A | N/A | strong | | N/A | N/A | N/A | | | K. B., K. N., K. L-F. | | | |
| 2018KBP039 | 8-Aug-18 | 595840 | 5245955 | Pit #4 | diabase | med | outcrop | 0 | 58 | 0 | 38 | 0 | 4 | 0 | 60 | 30 | 10 | | N/A | N/A | N/A | | N/A | N/A | N/A | | | K. B., K. N., K. L-F. | | | |
| 2018KBP040 | 8-Aug-18 | 595943 | 5246018 | Pit #5 | granite | fine (crystalline) | float | 60 | 30 | 0 | 0 | 0 | 10 | 0 | 70 | 10 | 20 | | Si | mod | N/A | | N/A | N/A | N/A | | | K. B., K. N., K. L-F. | | | |
| 2018KBP041 | 8-Aug-18 | 595943 | 5246018 | Pit #5 | diabase | fine | outcrop | 0 | 38 | 0 | 52 | 10 | 0 | 0 | 0 | 0 | 0 | | kaol | mod | N/A | | N/A | N/A | N/A | | | K. B., K. N., K. L-F. | | | |
| 2018KBP042 | 8-Aug-18 | 595943 | 5246018 | Pit #5 | k-spar vein in altered diabase | fine | outcrop | 0 | 45 | 0 | 55 | 0 | 0 | 0 | 0 | 0 | 0 | | kaol | mod | N/A | | 5 | N/A | N/A | | | K. B., K. N., K. L-F. | | | |
| 2018KBP043 | 8-Aug-18 | 596471 | 5245268 | Shaft | k-spar vein in altered diabase | fine | outcrop | 20 | 66 | 10 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | | Si, K | mod | N/A | | 20 | 230 | 90 | | | K. B., K. N., K. L-F. | | | |
| 2018KBP044 | 8-Aug-18 | 596471 | 5245268 | Shaft | altered diabase | med (crystalline) | outcrop | 2 | 48 | 0 | 45 | 0 | 5 | 0 | 100 | 0 | 0 | | Si | weak | N/A | | N/A | N/A | N/A | | | K. B., K. N., K. L-F. | | | |
| 2018KBP045 | 10-Aug-18 | 595943 | 5246018 | Pit #1 | qtz vein in diabase | fine (euhedral vein crystals) | outcrop | 50 | 20 | 0 | 27 | 0 | 3 | 0 | 100 | 0 | 0 | | Si, chl | mod | N/A | | 4 | 290 | 90 | | | K. B., K. N., K. L-F. | | | |
| 2018KBP046 | 10-Aug-18 | 595943 | 5246018 | Pit #1 | diabase | fine (crystalline) | outcrop | 0 | 58 | 0 | 41 | 0 | 1 | 0 | 100 | 0 | 0 | | chl | weak | N/A | | N/A | N/A | N/A | | | K. B., K. N., K. L-F. | | | |
| 2018KBP047 | 10-Aug-18 | 595642 | 5245917 | Pit #3 | diabase | fine (crystalline) | outcrop | 0 | 65 | 0 | 30 | 0 | 5 | 0 | 100 | 0 | 0 | | chl | weak | N/A | | N/A | N/A | N/A | | | K. B., K. N., K. L-F. | | | |
| 2018KBP048 | 10-Aug-18 | 595642 | 5245917 | Pit #3 | granite | fine | outcrop | 10 | 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | K, chl | weak | N/A | | 20 | 290 | 90 | | | K. B., K. N., K. L-F. | | | |
| 2018KBP049 | 8-Aug-18 | 596063 | 5245917 | Pit #8 ext | granite | fine | outcrop | 10 | 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | Si | weak | N/A | | N/A | 300 | 90 | | | K. B., K. N., K. L-F. | | | |
| 2018KBP050 | 8-Aug-18 | 596063 | 5245917 | Pit #8 | granite | fine | outcrop | 5 | 85 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | | Si | weak | N/A | | 35 | 300 | 90 | | | K. B., K. N., K. L-F. | | | |
| 2018KBP051 | 8-Aug-18 | 596063 | 5245917 | Pit #8 | granite | fine (crystalline) | float | 10 | 50 | 0 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | | N/A | N/A | N/A | | N/A | N/A | N/A | | | K. B., K. N., K. L-F. | | | |
| 2018KBP052 | 8-Aug-18 | 596063 | 5245917 | Pit #8 | granite | fine (crystalline) | float | 10 | 85 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | | N/A | N/A | N/A | | N/A | N/A | N/A | | | K. B., K. N., K. L-F. | | | |
| 2018KBP053 | 9-Aug-18 | 596248 | 5245448 | Pit #13 | diabase | med | outcrop | 0 | 37 | 8 | 50 | 0 | 5 | 0 | 75 | 25 | 0 | | chl | weak | N/A | | N/A | N/A | N/A | | | K. B., K. N., K. L-F. | | | |
| 2018KBP054 | 9-Aug-18 | 596248 | 5245448 | Pit #13 | granite | fine (crystalline) | outcrop | 10 | 85 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | | Si | weak | N/A | | N/A | 130 | 90 | | | K. B., K. N., K. L-F. | | | |
| 2018KBP055 | 8-Aug-18 | 596083 | 5245907 | Contact | diabase | med | outcrop | 3 | 42 | 0 | 52 | 0 | 3 | 0 | 80 | 0 | 20 | | Si, chl | weak | N/A | | N/A | N/A | N/A | | | K. B., K. N., K. L-F. | | | |
| 2018KBP056 | 8-Aug-18 | 596083 | 5245907 | Contact | granite (wall rock alteration?) | med | outcrop | 38 | 58 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | | Si, K | strong | N/A | | N/A | N/A | N/A | | | K. B., K. N., K. L-F. | | | |
| 2018KBP057 | 8-Aug-18 | 596083 | 5245907 | Contact | granite | fine (crystalline) | outcrop | 30 | 60 | 0 | 0 | 7 | 3 | 0 | 100 | 0 | 0 | | Si | mod | N/A | | N/A | 300 | 90 | | | K. B., K. N., K. L-F. | | | |
| 2018KBP058 | 9-Aug-18 | 595708 | 5244890 | Pit #11 | diabase breccia within cal | fine | float | 0 | 25 | 0 | 35 | 40 | 0 | 0 | 0 | 0 | 0 | | N/A | N/A | N/A | | N/A | N/A | N/A | | | K. B., K. N., K. L-F. | | | |
| 2018KBP059 | 9-Aug-18 | 595708 | 5244890 | Pit #11 | k-spar vein in altered diabase | fine | outcrop | 25 | 75 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | Si, K | mod | N/A | | 2 | 100 | 85 | | | K. B., K. N., K. L-F. | | | |
| 2018KBP060 | 9-Aug-18 | 595708 | 5244890 | Pit #11 | diabase | med | outcrop | 0 | 55 | 0 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | | N/A | N/A | mod | | N/A | N/A | N/A | | | K. B., K. N., K. L-F. | | | |
| 2018KBP061 | 9-Aug-18 | 595767 | 5244889 | Pit #12 | diabase | fine | outcrop | 0 | 43 | 0 | 50 | 7 | 0 | 0 | 0 | 0 | 0 | | chl, kaol | mod | mod | | N/A | N/A | N/A | | | K. B., K. N., K. L-F. | | | |
| 18KRP601 | 2-Oct-18 | 596248 | 5245439 | | Qz Vein | | bldr | | | | | | | | | | 1 | | | | | | | | | | | | low | K.R. | |
| 18KRP602 | 2-Oct-18 | 596240 | 5245454 | Jane Dolan | Si-diabase | crs | bldr | | | | | | | | | 5 | | | Si | str | none | high | | 310 | 90 | fx/silica | low | | K.R. | | |
| 18KRP603 | 3-Oct-18 | 596024 | 5245928 | | Qz Vein | crs | o/c | | | | | | | | | | | | Si | | none | high | 25cm | 120/300 | 90 | | | | low | K.R. | |
| 18KRP604 | 3-Oct-18 | 596082 | 5245900 | | Qz Vein | crs | bldr | | | | | | | | | | | | Si | | none | high | 25cm | 300/120 | 90 | vein | | | | K.R. | |
| 18KRP605 | 3-Oct-18 | 595956 | 5245990 | | Qz Vein | crs | bldr | | | | | | | | | | | | Co | Si | | high | | 320 | 70 | | | | | K.R. | |
| 18KRP606 | 3-Oct-18 | 595577 | 5242908 | | Qz Vein | | o/c | | | | | | | | | | | | Co | | | | | 070/250 | 90 | | | | | K.R. | |
| 18KRP607 | 3-Oct-18 | 595809 | 5246087 | | Qz Vein | | bldr | | | | | | | | | | | | | | | | | | | | | | | | K.R. |
| 18MAP075 | 2-Oct-18 | 596240 | 5245441 | | Qz vein | | Float | | | | | | | | | | | | Si, Ery | | | | | | | | | | | | M.A. |
| 18MAP076 | 2-Oct-18 | 596244 | 5245451 | | Altered rock | | Float | | | | | | | | | | | | Si, Ery | | | | | | | | | | | | M.A. |
| 18MAP077 | 2-Oct-18 | 596060 | 5245915 | | Altered silicified rock / vein | | o/c | | | | | | | | 2 | tr | tr | tr Co | Si, Ery, carb | str | | high | 30cm | 300 - 310 | | | | | | | M.A. |
| 18MAP078 | 3-Oct-18 | 595640 | 5245907 | | Pink Silica vein | mg | o/c | | | | | | | | tr | tr | tr | 2% Co? | Si, Ery | str | | high | 30cm | 250 | 90 | | | | | M.A. | |
| 18MAP079 | 3-Oct-18 | 595581 | 5245888 | | Silicified vein | | o/c | | | | | | | | tr | | | | Si | | | high | 30cm | NE | | | | | | M.A. | |

* Kaylyn Niemetz (K. N.), Karys Leonard-Fortune (K. L-F), Katelynn Brown (K.B.), Kris Raffle (K.R.), Mo Asmail (M.A.)

2018 Drill Hole Collars

| Hole ID | Easting N83 Z17 | Northing N83 Z17 | Elevation N83 Z17 | Azimuth | Azimuth Survey Type | Dip (degree) | Hole Depth (m) | Casing (m) | Casing Pulled | Core Size | Artesian flow | Drill Type | Drilling Company | Geologist |
|---------|--------------------|---------------------|----------------------|---------|------------------------|-----------------|-------------------|---------------|------------------|--------------|------------------|---------------|---------------------|-----------|
| 18HC01 | 596242 | 5245430 | 294 | 350 | Reflex APSII | -46.5 | 85.7 | 4.5 | Yes | NQ | No | CS1000 | Vital Drilling | M.A. |
| 18HC02 | 596242 | 5245430 | 294 | 350 | Reflex APSII | -58.7 | 105 | 3 | Yes | NQ | No | CS1000 | Vital Drilling | M.A. |
| 18HC03 | 596242 | 5245430 | 294 | 40 | Reflex APSII | -50.2 | 105 | 4 | Yes | NQ | No | CS1000 | Vital Drilling | M.A. |
| 18HC04 | 596242 | 5245430 | 294 | 40 | Reflex APSII | -65.3 | 99 | 3 | Yes | NQ | No | CS1000 | Vital Drilling | M.A. |
| 18HC05 | 596062 | 5245903 | 303 | 30 | Reflex APSII | -46.9 | 91.2 | 1.5 | Yes | NQ | No | CS1000 | Vital Drilling | M.A. |
| 18HC06 | 596062 | 5245903 | 303 | 30 | Reflex APSII | -67.3 | 98.5 | 1.5 | Yes | NQ | No | CS1000 | Vital Drilling | M.A. |
| 18HC07 | 596080 | 5245928 | 294 | 255 | Reflex APSII | -45.1 | 74 | 3 | Yes | NQ | No | CS1000 | Vital Drilling | M.A. |
| 18HC08 | 595957 | 5246005 | 295 | 315 | Reflex APSII | -45 | 59 | 3 | Yes | NQ | No | CS1000 | Vital Drilling | M.A. |
| 18HC09 | 595957 | 5246005 | 295 | 315 | Reflex APSII | -59 | 80 | 1.5 | Yes | NQ | No | CS1000 | Vital Drilling | M.A. |
| 18HC10 | 595942 | 5246007 | 295 | 5 | Reflex APSII | -44.8 | 45.5 | 1.5 | Yes | NQ | No | CS1000 | Vital Drilling | M.A. |

2018 Drill Hole Downhole Surveys

| Hole ID | Depth (m) | Magnetic field (nt) | Temperature (C) | Azimuth uncorrected | Azimuth corrected | Dip | Surveyer |
|---------|-----------|---------------------|-----------------|---------------------|-------------------|------|----------|
| 18HC01 | 15 | 5777 | 14.1 | 357.3 | 346 | 46.5 | Simon |
| 18HC01 | 69 | 5478 | 5.4 | 2.3 | 351 | 46.2 | Simon |
| 18HC01 | 85.5 | 5535 | 4.5 | 4.3 | 353 | 46.4 | Simon |
| 18HC02 | 12 | 5565 | 7 | 1.7 | 350.4 | 58.7 | Simon |
| 18HC02 | 63 | 5509 | 10.1 | 6.8 | 355.5 | 59.1 | Simon |
| 18HC02 | 105 | 5203 | 12.3 | 7.4 | 356.1 | 59.6 | Simon |
| 18HC03 | 12 | 5716 | 13.1 | 54.9 | 43.6 | 50.2 | Simon |
| 18HC03 | 51 | 5821 | 16.2 | 53.6 | 42.3 | 50.9 | Blain |
| 18HC03 | 105 | 5200 | 9.7 | 61.7 | 50.4 | 51.2 | Simon |
| 18HC04 | 15 | 5340 | 11.2 | 53.6 | 42.3 | 65.3 | Simon |
| 18HC04 | 63 | 5731 | 13.3 | 54.3 | 43 | 65.7 | Blain |
| 18HC04 | 99 | 5551 | 8.3 | 52.9 | 41.6 | 66 | Simon |
| 18HC05 | 12 | 5703 | 11.3 | 41.4 | 30.1 | 46.9 | Simon |
| 18HC05 | 63 | 5474 | 11.1 | 40.1 | 28.8 | 47.7 | Simon |
| 18HC05 | 91.5 | 5368 | 9.5 | 42.8 | 31.5 | 48.2 | James |
| 18HC06 | 11.5 | 5486 | 8.3 | 40.4 | 29.1 | 67.3 | James |
| 18HC06 | 62.5 | 5451 | 12.6 | 40.2 | 28.9 | 67.7 | Simon |
| 18HC06 | 94.5 | 4937 | 9.7 | 43.2 | 31.9 | 67.9 | Simon |
| 18HC07 | 14 | 5512 | 8.7 | 263 | 251.7 | 45.1 | Jeanguy |
| 18HC07 | 65 | 5548 | 10.6 | 271.6 | 260.3 | 45.7 | Simon |
| 18HC08 | 17 | 5448 | 8.7 | 328.1 | 316.8 | 45 | Jeanguy |
| 18HC08 | 59 | 5499 | 2.9 | 326 | 314.7 | 45.5 | Simon |
| 18HC09 | 6 | 10.3 | 5516 | 325.7 | 314.4 | 59 | Jeanguy |
| 18HC09 | 74 | 5514 | 1.8 | 331.4 | 320.1 | 59.7 | Jeanguy |
| 18HC10 | 14 | 5563 | 9.3 | 18.9 | 7.6 | 44.8 | Jeanguy |
| 18HC10 | 45.5 | 5475 | 12.7 | 14.9 | 3.6 | 45.5 | Jeanguy |

2018 Drill Hole Geotechnical Measurements

| Hole ID | From | To | Recovery | Recovery Percent | RQD | RQD Percent | Magsus 1 | Magsus 2 | Magsus 3 | MagSus Ave |
|----------|-------|-------|----------|------------------|-------|-------------|----------|----------|----------|------------|
| 18-HC-01 | 4.85 | 6.00 | 1.15 | 1.00 | 55.00 | 47.83 | 10.3 | 1.85 | 2 | 4.72 |
| 18-HC-01 | 6.00 | 9.00 | 3.05 | 1.02 | 2.34 | 0.77 | 27.9 | 1.63 | 1.26 | 10.26 |
| 18-HC-01 | 9.00 | 12.00 | 2.88 | 0.96 | 2.20 | 0.76 | 4.35 | 9.5 | 1.56 | 5.14 |
| 18-HC-01 | 12.00 | 15.00 | 2.91 | 0.97 | 2.30 | 0.79 | 1.06 | 76.8 | 49.2 | 42.35 |
| 18-HC-01 | 15.00 | 18.00 | 2.9 | 0.97 | 2.05 | 0.71 | 73.2 | 86.02 | 64.2 | 74.47 |
| 18-HC-01 | 18.00 | 21.00 | 2.87 | 0.96 | 2.03 | 0.71 | 98.3 | 60.7 | 60.5 | 73.17 |
| 18-HC-01 | 21.00 | 24.00 | 2.9 | 0.97 | 1.01 | 0.35 | 79.2 | 50.5 | 50 | 59.90 |
| 18-HC-01 | 24.00 | 27.00 | 2.91 | 0.97 | 2.24 | 0.77 | 64.8 | 37.7 | 31.2 | 44.57 |
| 18-HC-01 | 27.00 | 30.00 | 2.9 | 0.97 | 2.01 | 0.69 | 42.5 | 27.3 | 13.2 | 27.67 |
| 18-HC-01 | 30.00 | 33.00 | 2.85 | 0.95 | 1.51 | 0.53 | 27.1 | 23 | 15.5 | 21.87 |
| 18-HC-01 | 33.00 | 36.00 | 2.82 | 0.94 | 1.90 | 0.67 | 21.2 | 19.1 | 28.7 | 23.00 |
| 18-HC-01 | 36.00 | 39.00 | 3.05 | 1.02 | 2.15 | 0.70 | 24.4 | 32.5 | 36.5 | 31.13 |
| 18-HC-01 | 39.00 | 42.00 | 2.94 | 0.98 | 1.44 | 0.49 | 19 | 27.6 | 19.5 | 22.03 |
| 18-HC-01 | 42.00 | 45.00 | 2.89 | 0.96 | 1.93 | 0.67 | 25.9 | 25.1 | 27.2 | 26.07 |
| 18-HC-01 | 45.00 | 48.00 | 3.08 | 1.03 | 1.34 | 0.44 | 32.2 | 33.2 | 24.1 | 29.83 |
| 18-HC-01 | 48.00 | 51.00 | 2.6 | 0.87 | 1.77 | 0.68 | 32.8 | 36.3 | 35.4 | 34.83 |
| 18-HC-01 | 51.00 | 54.00 | 2.95 | 0.98 | 2.33 | 0.79 | 37.9 | 40.7 | 38.3 | 38.97 |
| 18-HC-01 | 54.00 | 57.00 | 3.1 | 1.03 | 2.42 | 0.78 | 38.7 | 46.1 | 43.4 | 42.73 |
| 18-HC-01 | 57.00 | 60.00 | 2.9 | 0.97 | 2.00 | 0.69 | 83.3 | 39.8 | 40.2 | 54.43 |
| 18-HC-01 | 60.00 | 63.00 | 2.82 | 0.94 | 2.05 | 0.73 | 41.7 | 37.2 | 37.8 | 38.90 |
| 18-HC-01 | 63.00 | 66.00 | 3.16 | 1.05 | 2.93 | 0.93 | 38.9 | 39.1 | 40.6 | 39.53 |
| 18-HC-01 | 66.00 | 69.00 | 3.04 | 1.01 | 2.05 | 0.67 | 3.12 | 42.5 | 72.5 | 39.37 |
| 18-HC-01 | 69.00 | 72.00 | 3.1 | 1.03 | 2.07 | 0.67 | 56.6 | 45.1 | 52.8 | 51.50 |
| 18-HC-01 | 72.00 | 75.00 | 3.03 | 1.01 | 1.43 | 0.47 | 50.1 | 51.1 | 64.3 | 55.17 |
| 18-HC-01 | 75.00 | 78.00 | 3.07 | 1.02 | 2.70 | 0.88 | 59.1 | 91.1 | 60.6 | 70.27 |
| 18-HC-01 | 78.00 | 81.00 | 2.97 | 0.99 | 2.40 | 0.81 | 60.1 | 39.8 | 44.8 | 48.23 |
| 18-HC-01 | 81.00 | 84.00 | 3 | 1.00 | 2.28 | 0.76 | 9.92 | 6.06 | 8.22 | 8.07 |
| 18-HC-01 | 84.00 | 85.70 | 1.70 | 1.00 | 1.30 | 0.76 | 4.1 | 9.4 | 6.67 | 6.72 |
| 18-HC-02 | 3.00 | 6.00 | 2.08 | 0.69 | 1.12 | 0.54 | 1.45 | 1.42 | 1.22 | 1.36 |
| 18-HC-02 | 6.00 | 9.00 | 2.61 | 0.87 | 1.70 | 0.65 | 1.55 | 1.41 | 77.7 | 26.89 |
| 18-HC-02 | 9.00 | 12.00 | 2.97 | 0.99 | 1.68 | 0.57 | 4.41 | 8.76 | 16.4 | 9.86 |
| 18-HC-02 | 12.00 | 15.00 | 3.02 | 1.01 | 2.08 | 0.69 | 28.9 | 18.2 | 26.5 | 24.53 |
| 18-HC-02 | 15.00 | 18.00 | 2.93 | 0.98 | 1.99 | 0.68 | 96.3 | 38.2 | 48.5 | 61.00 |
| 18-HC-02 | 18.00 | 21.00 | 3.01 | 1.00 | 1.97 | 0.65 | 46.9 | 38.5 | 24.2 | 36.53 |
| 18-HC-02 | 21.00 | 24.00 | 2.88 | 0.96 | 1.20 | 0.42 | 39.7 | 22.9 | 9.06 | 23.89 |
| 18-HC-02 | 24.00 | 27.00 | 3.05 | 1.02 | 1.16 | 0.38 | 17.5 | 18.9 | 22.4 | 19.60 |
| 18-HC-02 | 27.00 | 30.00 | 3 | 1.00 | 1.85 | 0.62 | 23.2 | 14.8 | 1.22 | 13.07 |
| 18-HC-02 | 30.00 | 33.00 | 3.01 | 1.00 | 1.90 | 0.63 | 7.18 | 1.18 | 16.7 | 8.35 |
| 18-HC-02 | 33.00 | 36.00 | 2.98 | 0.99 | 1.88 | 0.63 | 21.7 | 29.8 | 37.1 | 29.53 |
| 18-HC-02 | 36.00 | 39.00 | 3 | 1.00 | 2.47 | 0.82 | 23.4 | 27.6 | 34.3 | 28.43 |
| 18-HC-02 | 39.00 | 42.00 | 3 | 1.00 | 2.27 | 0.76 | 31.8 | 41.7 | 40.5 | 38.00 |
| 18-HC-02 | 42.00 | 45.00 | 2.8 | 0.93 | 1.95 | 0.70 | 37.7 | 40.3 | 38.9 | 38.97 |
| 18-HC-02 | 45.00 | 48.00 | 2.8 | 0.93 | 1.53 | 0.55 | 34.1 | 21.3 | 44.4 | 33.27 |
| 18-HC-02 | 48.00 | 51.00 | 2.85 | 0.95 | 2.15 | 0.75 | 62.5 | 59.1 | 47.9 | 56.50 |
| 18-HC-02 | 51.00 | 54.00 | 3 | 1.00 | 1.23 | 0.41 | 41 | 85.4 | 71.2 | 65.87 |
| 18-HC-02 | 54.00 | 57.00 | 3.05 | 1.02 | 1.70 | 0.56 | 37.8 | 33.2 | 40.7 | 37.23 |
| 18-HC-02 | 57.00 | 60.00 | 2.82 | 0.94 | 2.48 | 0.88 | 35.5 | 32.5 | 31.2 | 33.07 |

2018 Drill Hole Geotechnical Measurements

| Hole ID | From | To | Recovery | Recovery Percent | RQD | RQD Percent | Magsus 1 | Magsus 2 | Magsus 3 | MagSus Ave |
|----------|--------|--------|----------|------------------|--------|-------------|----------|----------|----------|------------|
| 18-HC-02 | 60.00 | 63.00 | 3.05 | 1.02 | 2.08 | 0.68 | 21.4 | 31.7 | 28.2 | 27.10 |
| 18-HC-02 | 63.00 | 66.00 | 2.95 | 0.98 | 2.34 | 0.79 | 44.5 | 48.6 | 56.2 | 49.77 |
| 18-HC-02 | 66.00 | 69.00 | 3.02 | 1.01 | 2.12 | 0.70 | 55.3 | 90.7 | 58.2 | 68.07 |
| 18-HC-02 | 69.00 | 72.00 | 2.8 | 0.93 | 1.66 | 0.59 | 105 | 42.4 | 51.2 | 66.20 |
| 18-HC-02 | 72.00 | 75.00 | 2.72 | 0.91 | 2.14 | 0.79 | 46.3 | 43.1 | 48.2 | 45.87 |
| 18-HC-02 | 75.00 | 78.00 | 2.92 | 0.97 | 1.47 | 0.50 | 40 | 54.1 | 47.2 | 47.10 |
| 18-HC-02 | 78.00 | 81.00 | 3.04 | 1.01 | 1.80 | 0.59 | 22.8 | 7.45 | 63.3 | 31.18 |
| 18-HC-02 | 81.00 | 84.00 | 2.68 | 0.89 | 1.58 | 0.59 | 71.1 | 44.6 | 72.3 | 62.67 |
| 18-HC-02 | 84.00 | 87.00 | 2.93 | 0.98 | 1.00 | 0.34 | 7 | 46.1 | 57.1 | 36.73 |
| 18-HC-02 | 87.00 | 90.00 | 2.66 | 0.89 | 1.33 | 0.50 | 80.4 | 55.3 | 83.9 | 73.20 |
| 18-HC-02 | 90.00 | 93.00 | 3 | 1.00 | 1.90 | 0.63 | 69.2 | 55.6 | 105 | 76.60 |
| 18-HC-02 | 93.00 | 96.00 | 2.95 | 0.98 | 1.50 | 0.51 | 105 | 77.6 | 66.5 | 83.03 |
| 18-HC-02 | 96.00 | 99.00 | 2.95 | 0.98 | 2.02 | 0.68 | 28.4 | 5.24 | 22.1 | 18.58 |
| 18-HC-02 | 99.00 | 102.00 | 3.01 | 1.00 | 2.34 | 0.78 | 82.1 | 99.9 | 99.8 | 93.93 |
| 18-HC-02 | 102.00 | 105.00 | 2.98 | 0.99 | 2.65 | 0.89 | 126 | 127 | 167 | 140.00 |
| 18-HC-03 | 3.00 | 6.00 | 2.94 | 0.98 | 164.00 | 55.78 | 1.47 | 1.33 | 1.99 | 1.60 |
| 18-HC-03 | 6.00 | 9.00 | 2.9 | 0.97 | 2.63 | 0.91 | 1.55 | 1.93 | 29.8 | 11.09 |
| 18-HC-03 | 9.00 | 12.00 | 2.94 | 0.98 | 1.07 | 0.36 | 3.03 | 2.75 | 54.1 | 19.96 |
| 18-HC-03 | 12.00 | 15.00 | 2.94 | 0.98 | 2.20 | 0.75 | 69.2 | 75.9 | 23.7 | 56.27 |
| 18-HC-03 | 15.00 | 18.00 | 3.01 | 1.00 | 1.95 | 0.65 | 27.9 | 52.1 | 82.4 | 54.13 |
| 18-HC-03 | 18.00 | 21.00 | 3.05 | 1.02 | 2.65 | 0.87 | 45.1 | 34.6 | 48.3 | 42.67 |
| 18-HC-03 | 21.00 | 24.00 | 2.98 | 0.99 | 1.88 | 0.63 | 36.1 | 4.14 | 11.9 | 17.38 |
| 18-HC-03 | 24.00 | 27.00 | 3 | 1.00 | 1.92 | 0.64 | 18.9 | 19.7 | 27.2 | 21.93 |
| 18-HC-03 | 27.00 | 30.00 | 2.85 | 0.95 | 1.56 | 0.55 | 19.1 | 22.5 | 40.3 | 27.30 |
| 18-HC-03 | 30.00 | 33.00 | 2.82 | 0.94 | 1.51 | 0.54 | 27.5 | 34.7 | 31.7 | 31.30 |
| 18-HC-03 | 33.00 | 36.00 | 3.05 | 1.02 | 2.26 | 0.74 | 30.2 | 30.9 | 19 | 26.70 |
| 18-HC-03 | 36.00 | 39.00 | 3 | 1.00 | 1.52 | 0.51 | 33.2 | 30.5 | 24.6 | 29.43 |
| 18-HC-03 | 39.00 | 42.00 | 2.9 | 0.97 | 2.36 | 0.81 | 33.1 | 32.9 | 32.6 | 32.87 |
| 18-HC-03 | 42.00 | 45.00 | 2.94 | 0.98 | 2.05 | 0.70 | 26.1 | 38 | 14 | 26.03 |
| 18-HC-03 | 45.00 | 48.00 | 2.75 | 0.92 | 2.28 | 0.83 | 42.3 | 37.5 | 36.2 | 38.67 |
| 18-HC-03 | 48.00 | 51.00 | 3.05 | 1.02 | 2.74 | 0.90 | 32.9 | 36.3 | 32 | 33.73 |
| 18-HC-03 | 51.00 | 54.00 | 2.75 | 0.92 | 1.46 | 0.53 | 33.8 | 38.2 | 33.3 | 35.10 |
| 18-HC-03 | 54.00 | 57.00 | 2.92 | 0.97 | 2.00 | 0.68 | 53.4 | 46.1 | 59.6 | 53.03 |
| 18-HC-03 | 57.00 | 60.00 | 2.87 | 0.96 | 1.98 | 0.69 | 11.8 | 9.92 | 9.76 | 10.49 |
| 18-HC-03 | 60.00 | 63.00 | 2.55 | 0.85 | 1.90 | 0.75 | 7 | 7.03 | 24.2 | 12.74 |
| 18-HC-03 | 63.00 | 66.00 | 2.96 | 0.99 | 2.40 | 0.81 | 12.8 | 18.4 | 15.7 | 15.63 |
| 18-HC-03 | 66.00 | 69.00 | 3.01 | 1.00 | 2.03 | 0.67 | 17.6 | 16.6 | 23 | 19.07 |
| 18-HC-03 | 69.00 | 72.00 | 3.16 | 1.05 | 2.66 | 0.84 | 26.3 | 20.5 | 20.7 | 22.50 |
| 18-HC-03 | 72.00 | 75.00 | 3.1 | 1.03 | 2.36 | 0.76 | 30.6 | 27.2 | 22.5 | 26.77 |
| 18-HC-03 | 75.00 | 78.00 | 2.95 | 0.98 | 1.50 | 0.51 | 24.9 | 42.3 | 28.7 | 31.97 |
| 18-HC-03 | 78.00 | 81.00 | 2.7 | 0.90 | 1.90 | 0.70 | 58.9 | 38.1 | 27.7 | 41.57 |
| 18-HC-03 | 81.00 | 84.00 | 3.12 | 1.04 | 2.22 | 0.71 | 41.2 | 56.2 | 43.6 | 47.00 |
| 18-HC-03 | 84.00 | 87.00 | 3.1 | 1.03 | 2.34 | 0.75 | 64.4 | 60.9 | 60.1 | 61.80 |
| 18-HC-03 | 87.00 | 90.00 | 2.8 | 0.93 | 1.26 | 0.45 | 74.7 | 87.5 | 78.5 | 80.23 |
| 18-HC-03 | 90.00 | 93.00 | 2.5 | 0.83 | 0.37 | 0.15 | 115 | 69.2 | 54.5 | 79.57 |
| 18-HC-03 | 93.00 | 96.00 | 3.04 | 1.01 | 2.61 | 0.86 | 142 | 130 | 74.2 | 115.40 |
| 18-HC-03 | 96.00 | 99.00 | 3.07 | 1.02 | 2.60 | 0.85 | 90.2 | 98.3 | 38.3 | 75.60 |

2018 Drill Hole Geotechnical Measurements

| Hole ID | From | To | Recovery | Recovery Percent | RQD | RQD Percent | Magsus 1 | Magsus 2 | Magsus 3 | MagSus Ave |
|----------|--------|--------|----------|------------------|------|-------------|----------|----------|----------|------------|
| 18-HC-03 | 99.00 | 102.00 | 2.96 | 0.99 | 2.14 | 0.72 | 92.7 | 70.7 | 140 | 101.13 |
| 18-HC-03 | 102.00 | 105.00 | 2.54 | 0.85 | 1.27 | 0.50 | 142 | 126 | 154 | 140.67 |
| 18-HC-04 | 4.04 | 6.00 | 1.96 | 1.00 | 1.60 | 0.82 | 1.5 | 3.98 | 3.9 | 3.13 |
| 18-HC-04 | 6.00 | 9.00 | 3.06 | 1.02 | 2.74 | 0.90 | 1.97 | 2.2 | 7.2 | 3.79 |
| 18-HC-04 | 9.00 | 12.00 | 2.95 | 0.98 | 2.11 | 0.72 | 7.35 | 47.9 | 53.4 | 36.22 |
| 18-HC-04 | 12.00 | 15.00 | 2.85 | 0.95 | 1.73 | 0.61 | 52.9 | 40.1 | 33.6 | 42.20 |
| 18-HC-04 | 15.00 | 18.00 | 2.77 | 0.92 | 1.41 | 0.51 | 43.3 | 47.8 | 28.3 | 39.80 |
| 18-HC-04 | 18.00 | 21.00 | 3.01 | 1.00 | 1.48 | 0.49 | 37.5 | 2.03 | 16.5 | 18.68 |
| 18-HC-04 | 21.00 | 24.00 | 3.09 | 1.03 | 1.92 | 0.62 | 15.3 | 19.1 | 20.3 | 18.23 |
| 18-HC-04 | 24.00 | 27.00 | 3.07 | 1.02 | 1.81 | 0.59 | 21.3 | 22.9 | 24.1 | 22.77 |
| 18-HC-04 | 27.00 | 30.00 | 2.75 | 0.92 | 1.77 | 0.64 | 20.8 | 23.5 | 20.5 | 21.60 |
| 18-HC-04 | 30.00 | 33.00 | 2.97 | 0.99 | 1.82 | 0.61 | 25.4 | 25.9 | 28.6 | 26.63 |
| 18-HC-04 | 33.00 | 36.00 | 2.98 | 0.99 | 2.32 | 0.78 | 34.9 | 31.8 | 30.3 | 32.33 |
| 18-HC-04 | 36.00 | 39.00 | 2.87 | 0.96 | 2.01 | 0.70 | 36 | 36.3 | 38.1 | 36.80 |
| 18-HC-04 | 39.00 | 42.00 | 2.8 | 0.93 | 1.92 | 0.69 | 33.4 | 27.4 | 32.9 | 31.23 |
| 18-HC-04 | 42.00 | 45.00 | 2.8 | 0.93 | 1.68 | 0.60 | 36.8 | 33.6 | 34.3 | 34.90 |
| 18-HC-04 | 45.00 | 48.00 | 3.07 | 1.02 | 2.65 | 0.86 | 29.5 | 35.2 | 41.7 | 35.47 |
| 18-HC-04 | 48.00 | 51.00 | 3.04 | 1.01 | 1.05 | 0.35 | 36.9 | 40 | 47.2 | 41.37 |
| 18-HC-04 | 51.00 | 54.00 | 3.06 | 1.02 | 2.52 | 0.82 | 28.8 | 29.9 | 47.6 | 35.43 |
| 18-HC-04 | 54.00 | 57.00 | 3.03 | 1.01 | 1.92 | 0.63 | 61.5 | 42.2 | 85.2 | 62.97 |
| 18-HC-04 | 57.00 | 60.00 | 3.2 | 1.07 | 2.89 | 0.90 | 90.5 | 57.7 | 50.5 | 66.23 |
| 18-HC-04 | 60.00 | 63.00 | 2.6 | 0.87 | 2.40 | 0.92 | 43.6 | 60.5 | 69.9 | 58.00 |
| 18-HC-04 | 63.00 | 66.00 | 2.9 | 0.97 | 2.60 | 0.90 | 92.2 | 35.1 | 52.8 | 60.03 |
| 18-HC-04 | 66.00 | 69.00 | 3 | 1.00 | 2.60 | 0.87 | 44.6 | 41.8 | 43.6 | 43.33 |
| 18-HC-04 | 69.00 | 72.00 | 3.01 | 1.00 | 2.55 | 0.85 | 40.2 | 68.6 | 52.9 | 53.90 |
| 18-HC-04 | 72.00 | 75.00 | 2.85 | 0.95 | 1.50 | 0.53 | 52.3 | 45.5 | 37.4 | 45.07 |
| 18-HC-04 | 75.00 | 78.00 | 3 | 1.00 | 1.85 | 0.62 | 57.3 | 55.5 | 74.5 | 62.43 |
| 18-HC-04 | 78.00 | 81.00 | 2.97 | 0.99 | 2.62 | 0.88 | 62.5 | 60.4 | 61.9 | 61.60 |
| 18-HC-04 | 81.00 | 84.00 | 2.72 | 0.91 | 1.73 | 0.64 | 55.8 | 54.9 | 50.5 | 53.73 |
| 18-HC-04 | 84.00 | 87.00 | 3 | 1.00 | 1.53 | 0.51 | 46.2 | 70.5 | 85.6 | 67.43 |
| 18-HC-04 | 87.00 | 90.00 | 3 | 1.00 | 2.05 | 0.68 | 112 | 92.4 | 112 | 105.47 |
| 18-HC-04 | 90.00 | 93.00 | 2.74 | 0.91 | 1.64 | 0.60 | 181 | 185 | 194 | 186.67 |
| 18-HC-04 | 93.00 | 96.00 | 3 | 1.00 | 2.37 | 0.79 | 222 | 171 | 202 | 198.33 |
| 18-HC-04 | 96.00 | 99.00 | 2.75 | 0.92 | 1.80 | 0.65 | 10.5 | 1.3 | 4.47 | 5.42 |
| 18-HC-05 | 1.56 | 3.00 | 1.44 | 1.00 | 1.32 | 0.92 | 1.08 | 1.00 | 1.04 | 1.04 |
| 18-HC-05 | 3.00 | 6.00 | 3.01 | 1.00 | 2.58 | 0.86 | 1.48 | 1.17 | 1.32 | 1.32 |
| 18-HC-05 | 6.00 | 9.00 | 2.98 | 0.99 | 2.57 | 0.86 | 1.48 | 1.17 | 1.32 | 1.32 |
| 18-HC-05 | 9.00 | 12.00 | 2.99 | 1.00 | 2.61 | 0.87 | 1.49 | 1.18 | 1.34 | 1.34 |
| 18-HC-05 | 12.00 | 15.00 | 2.95 | 0.98 | 2.60 | 0.88 | 1.49 | 1.18 | 1.34 | 1.34 |
| 18-HC-05 | 15.00 | 18.00 | 2.98 | 0.99 | 1.44 | 0.48 | 0.97 | 0.73 | 0.85 | 0.85 |
| 18-HC-05 | 18.00 | 21.00 | 3 | 1.00 | 1.88 | 0.63 | 1.17 | 0.90 | 1.03 | 1.03 |
| 18-HC-05 | 21.00 | 24.00 | 2.96 | 0.99 | 2.64 | 0.89 | 1.51 | 1.20 | 1.35 | 1.35 |
| 18-HC-05 | 24.00 | 27.00 | 2.96 | 0.99 | 2.05 | 0.69 | 1.24 | 0.97 | 1.11 | 1.11 |
| 18-HC-05 | 27.00 | 30.00 | 3.05 | 1.02 | 2.15 | 0.70 | 1.29 | 1.00 | 1.14 | 1.14 |
| 18-HC-05 | 30.00 | 33.00 | 3.01 | 1.00 | 2.00 | 0.66 | 1.22 | 0.94 | 1.08 | 1.08 |
| 18-HC-05 | 33.00 | 36.00 | 2.96 | 0.99 | 2.18 | 0.74 | 1.30 | 1.02 | 1.16 | 1.16 |
| 18-HC-05 | 36.00 | 39.00 | 2.97 | 0.99 | 2.75 | 0.93 | 1.56 | 1.24 | 1.40 | 1.40 |

2018 Drill Hole Geotechnical Measurements

| Hole ID | From | To | Recovery | Recovery Percent | RQD | RQD Percent | Magsus 1 | Magsus 2 | Magsus 3 | MagSus Ave |
|----------|-------|-------|----------|------------------|------|-------------|----------|----------|----------|------------|
| 18-HC-05 | 39.00 | 42.00 | 2.97 | 0.99 | 2.25 | 0.76 | 1.33 | 1.05 | 1.19 | 1.19 |
| 18-HC-05 | 42.00 | 45.00 | 2.97 | 0.99 | 2.17 | 0.73 | 1.30 | 1.01 | 1.16 | 1.16 |
| 18-HC-05 | 45.00 | 48.00 | 2.95 | 0.98 | 2.92 | 0.99 | 1.63 | 1.31 | 1.47 | 1.47 |
| 18-HC-05 | 48.00 | 51.00 | 2.95 | 0.98 | 2.40 | 0.81 | 1.40 | 1.11 | 1.25 | 1.25 |
| 18-HC-05 | 51.00 | 54.00 | 3 | 1.00 | 2.47 | 0.82 | 1.43 | 1.13 | 1.28 | 1.28 |
| 18-HC-05 | 54.00 | 57.00 | 3.02 | 1.01 | 2.68 | 0.89 | 0.1 | -0.12 | -0.18 | -0.07 |
| 18-HC-05 | 57.00 | 60.00 | 2.97 | 0.99 | 2.30 | 0.77 | 1.7 | 0.09 | -0.25 | 0.51 |
| 18-HC-05 | 60.00 | 63.00 | 2.98 | 0.99 | 2.97 | 1.00 | 0.01 | 1.24 | 2.28 | 1.18 |
| 18-HC-05 | 63.00 | 66.00 | 2.97 | 0.99 | 2.97 | 1.00 | -0.62 | 0.34 | -0.3 | -0.19 |
| 18-HC-05 | 66.00 | 69.00 | 3.01 | 1.00 | 2.58 | 0.86 | -0.34 | -0.58 | 2.23 | 0.44 |
| 18-HC-05 | 69.00 | 72.00 | 3 | 1.00 | 2.80 | 0.93 | 1 | 0.93 | -0.51 | 0.47 |
| 18-HC-05 | 72.00 | 75.00 | 2.9 | 0.97 | 1.90 | 0.66 | -0.1 | 0.03 | 0.75 | 0.23 |
| 18-HC-05 | 75.00 | 78.00 | 2.97 | 0.99 | 2.04 | 0.69 | -0.03 | -0.21 | 0.27 | 0.01 |
| 18-HC-05 | 78.00 | 81.00 | 3.01 | 1.00 | 2.73 | 0.91 | -0.07 | 0.05 | 0.27 | 0.08 |
| 18-HC-05 | 81.00 | 84.00 | 2.92 | 0.97 | 0.80 | 0.27 | -0.03 | -0.09 | 0.01 | -0.04 |
| 18-HC-05 | 84.00 | 87.00 | 3.04 | 1.01 | 2.60 | 0.86 | 2.41 | 18.1 | 0.21 | 6.91 |
| 18-HC-05 | 87.00 | 90.00 | 3.05 | 1.02 | 2.62 | 0.86 | 0.1 | 1.31 | 1.37 | 0.93 |
| 18-HC-05 | 90.00 | 91.20 | 1.2 | 1.00 | 0.34 | 0.28 | 0.36 | 1.95 | 0.51 | 0.94 |
| 18-HC-06 | 0.40 | 2.50 | 2.1 | 1.00 | 1.70 | 0.81 | -0.31 | 0.75 | 1.24 | 0.56 |
| 18-HC-06 | 2.50 | 5.50 | 3.01 | 1.00 | 2.82 | 0.94 | -0.21 | -0.49 | 0.12 | -0.19 |
| 18-HC-06 | 5.50 | 8.50 | 2.88 | 0.96 | 2.88 | 1.00 | 0.8 | -0.62 | 0.87 | 0.35 |
| 18-HC-06 | 8.50 | 11.50 | 2.82 | 0.94 | 2.28 | 0.81 | 1.26 | 0.21 | -0.6 | 0.29 |
| 18-HC-06 | 11.50 | 14.50 | 3.05 | 1.02 | 2.88 | 0.94 | 0.14 | 0.23 | 0.62 | 0.33 |
| 18-HC-06 | 14.50 | 17.50 | 2.93 | 0.98 | 2.44 | 0.83 | 0.65 | 0.31 | 0.78 | 0.58 |
| 18-HC-06 | 17.50 | 20.50 | 2.99 | 1.00 | 2.29 | 0.77 | 0.32 | -0.87 | 0.09 | -0.15 |
| 18-HC-06 | 20.50 | 23.50 | 2.9 | 0.97 | 2.33 | 0.80 | -0.43 | 0.09 | 0.1 | -0.08 |
| 18-HC-06 | 23.50 | 26.50 | 2.7 | 0.90 | 1.17 | 0.43 | -0.03 | 0.1 | 0.78 | 0.28 |
| 18-HC-06 | 26.50 | 29.50 | 2.97 | 0.99 | 2.03 | 0.68 | -0.31 | 0.12 | -0.29 | -0.16 |
| 18-HC-06 | 29.50 | 32.50 | 2.96 | 0.99 | 1.83 | 0.62 | 0.01 | -0.05 | 3.58 | 1.18 |
| 18-HC-06 | 32.50 | 35.50 | 2.8 | 0.93 | 0.35 | 0.13 | -0.1 | -0.14 | 0.05 | -0.06 |
| 18-HC-06 | 35.50 | 38.50 | 2.82 | 0.94 | 2.00 | 0.71 | 0.36 | 0.1 | -2.1 | -0.55 |
| 18-HC-06 | 38.50 | 41.50 | 3.01 | 1.00 | 2.23 | 0.74 | 0.49 | 0.49 | 0.65 | 0.54 |
| 18-HC-06 | 41.50 | 44.50 | 2.9 | 0.97 | 2.80 | 0.97 | 0.2 | -0.9 | -0.36 | -0.35 |
| 18-HC-06 | 44.50 | 47.50 | 3.02 | 1.01 | 2.37 | 0.78 | -0.96 | -0.3 | 0.18 | -0.36 |
| 18-HC-06 | 47.50 | 50.50 | 2.98 | 0.99 | 2.30 | 0.77 | 0.56 | 0.07 | 1.18 | 0.60 |
| 18-HC-06 | 50.50 | 53.50 | 3.1 | 1.03 | 2.72 | 0.88 | 0.36 | 0.6 | 0.89 | 0.62 |
| 18-HC-06 | 53.50 | 56.50 | 2.93 | 0.98 | 2.52 | 0.86 | 0.2 | 5.49 | 0.23 | 1.97 |
| 18-HC-06 | 56.50 | 59.50 | 3 | 1.00 | 2.45 | 0.82 | -0.58 | -0.54 | -0.42 | -0.51 |
| 18-HC-06 | 59.50 | 62.50 | 2.94 | 0.98 | 2.89 | 0.98 | 1.95 | 0.18 | 0.05 | 0.73 |
| 18-HC-06 | 62.50 | 65.50 | 2.94 | 0.98 | 2.71 | 0.92 | -0.29 | -0.12 | 1.18 | 0.26 |
| 18-HC-06 | 65.50 | 68.50 | 2.96 | 0.99 | 2.16 | 0.73 | 0.4 | -0.09 | 0.42 | 0.24 |
| 18-HC-06 | 68.50 | 71.50 | 3.1 | 1.03 | 2.42 | 0.78 | 0.1 | 0.76 | 1.29 | 0.72 |
| 18-HC-06 | 71.50 | 74.50 | 2.8 | 0.93 | 1.12 | 0.40 | 0.31 | 0.07 | 0.14 | 0.17 |
| 18-HC-06 | 74.50 | 77.50 | 2.67 | 0.89 | 1.90 | 0.71 | 1.33 | 0.18 | -0.01 | 0.50 |
| 18-HC-06 | 77.50 | 80.50 | 2.65 | 0.88 | 1.54 | 0.58 | -0.84 | -0.96 | 0.73 | -0.36 |
| 18-HC-06 | 80.50 | 83.50 | 2.5 | 0.83 | 0.40 | 0.16 | 1.93 | 0.12 | 0.2 | 0.75 |
| 18-HC-06 | 83.50 | 86.50 | 2.1 | 0.70 | 0.42 | 0.20 | 0.03 | 0.07 | -0.1 | 0.00 |

2018 Drill Hole Geotechnical Measurements

| Hole ID | From | To | Recovery | Recovery Percent | RQD | RQD Percent | Magsus 1 | Magsus 2 | Magsus 3 | MagSus Ave |
|----------|-------|-------|----------|------------------|------|-------------|----------|----------|----------|------------|
| 18-HC-06 | 86.50 | 89.50 | 2.4 | 0.80 | 1.00 | 0.42 | -0.21 | -0.12 | -0.54 | -0.29 |
| 18-HC-06 | 89.50 | 92.50 | 3 | 1.00 | 2.82 | 0.94 | 0.42 | 0.45 | 0.29 | 0.39 |
| 18-HC-06 | 92.50 | 95.50 | 2.68 | 0.89 | 2.02 | 0.75 | 0.51 | -0.12 | 0.67 | 0.35 |
| 18-HC-06 | 95.50 | 98.50 | 2.57 | 0.86 | 1.99 | 0.77 | 0.12 | 0.62 | -0.16 | 0.19 |
| 18-HC-07 | 2.80 | 5.00 | 2.2 | 1.00 | 1.92 | 0.87 | 0.67 | 0.25 | -0.75 | 0.06 |
| 18-HC-07 | 5.00 | 8.00 | 2.9 | 0.97 | 2.55 | 0.88 | -0.23 | 0.12 | 0.42 | 0.10 |
| 18-HC-07 | 8.00 | 11.00 | 3.04 | 1.01 | 3.04 | 1.00 | -0.53 | -0.01 | -0.31 | -0.28 |
| 18-HC-07 | 11.00 | 14.00 | 2.96 | 0.99 | 2.60 | 0.88 | -0.21 | -0.29 | 0.42 | -0.03 |
| 18-HC-07 | 14.00 | 17.00 | 3.02 | 1.01 | 2.83 | 0.94 | -0.03 | 0.23 | 0.56 | 0.25 |
| 18-HC-07 | 17.00 | 20.00 | 3 | 1.00 | 2.59 | 0.86 | 0.36 | 0.64 | 0.16 | 0.39 |
| 18-HC-07 | 20.00 | 23.00 | 2.96 | 0.99 | 2.73 | 0.92 | -0.07 | 1.11 | 0.23 | 0.42 |
| 18-HC-07 | 23.00 | 26.00 | 2.95 | 0.98 | 2.61 | 0.88 | -0.31 | 0.42 | 1.97 | 0.69 |
| 18-HC-07 | 26.00 | 29.00 | 2.9 | 0.97 | 2.60 | 0.90 | -0.09 | 0.32 | 5.45 | 1.89 |
| 18-HC-07 | 29.00 | 32.00 | 3 | 1.00 | 2.92 | 0.97 | 1.64 | 0.31 | -0.23 | 0.57 |
| 18-HC-07 | 32.00 | 35.00 | 3.07 | 1.02 | 2.72 | 0.89 | 0.31 | 3.8 | 0.51 | 1.54 |
| 18-HC-07 | 35.00 | 38.00 | 2.9 | 0.97 | 2.90 | 1.00 | 0.91 | -0.03 | 0.03 | 0.30 |
| 18-HC-07 | 38.00 | 41.00 | 3.01 | 1.00 | 2.86 | 0.95 | 0.27 | -0.03 | -0.07 | 0.06 |
| 18-HC-07 | 41.00 | 44.00 | 3.03 | 1.01 | 2.59 | 0.85 | 0.16 | 0.12 | 0.09 | 0.12 |
| 18-HC-07 | 44.00 | 47.00 | 2.97 | 0.99 | 2.37 | 0.80 | 0.09 | -0.38 | 0.09 | -0.07 |
| 18-HC-07 | 47.00 | 50.00 | 3.03 | 1.01 | 2.47 | 0.82 | 0.12 | 0.82 | 0.05 | 0.33 |
| 18-HC-07 | 50.00 | 53.00 | 2.95 | 0.98 | 2.07 | 0.70 | 0.51 | -0.1 | 0.16 | 0.19 |
| 18-HC-07 | 53.00 | 56.00 | 3 | 1.00 | 1.76 | 0.59 | 3.14 | 0.42 | 0.51 | 1.36 |
| 18-HC-07 | 56.00 | 59.00 | 2.94 | 0.98 | 2.12 | 0.72 | 0.8 | 2.45 | 0.36 | 1.20 |
| 18-HC-07 | 59.00 | 62.00 | 3.07 | 1.02 | 2.57 | 0.84 | -0.31 | 0.27 | -0.65 | -0.23 |
| 18-HC-07 | 62.00 | 65.00 | 2.85 | 0.95 | 2.30 | 0.81 | 1.13 | -0.45 | 1.66 | 0.78 |
| 18-HC-07 | 65.00 | 68.00 | 2.92 | 0.97 | 2.43 | 0.83 | -0.12 | 1.77 | 0.89 | 0.85 |
| 18-HC-07 | 68.00 | 71.00 | 3.04 | 1.01 | 1.80 | 0.59 | 3.14 | 4.2 | 2.45 | 3.26 |
| 18-HC-07 | 71.00 | 74.00 | 3.1 | 1.03 | 1.65 | 0.53 | 1.26 | 6.53 | 2.39 | 3.39 |
| 18-HC-08 | 2.70 | 5.00 | 2.7 | 1.17 | 1.30 | 0.48 | 0.62 | -0.14 | 0.12 | 0.20 |
| 18-HC-08 | 5.00 | 8.00 | 3 | 1.00 | 1.67 | 0.56 | 0.01 | 1.7 | 0.93 | 0.88 |
| 18-HC-08 | 8.00 | 11.00 | 2.9 | 0.97 | 2.12 | 0.73 | 0.86 | 0.47 | 0.31 | 0.55 |
| 18-HC-08 | 11.00 | 14.00 | 2.94 | 0.98 | 2.64 | 0.90 | 0.2 | 0.14 | 1.7 | 0.68 |
| 18-HC-08 | 14.00 | 17.00 | 3 | 1.00 | 2.50 | 0.83 | -0.73 | 3.16 | 0.53 | 0.99 |
| 18-HC-08 | 17.00 | 20.00 | 2.4 | 0.80 | 1.15 | 0.48 | -0.53 | -0.31 | 0.29 | -0.18 |
| 18-HC-08 | 20.00 | 23.00 | 2.84 | 0.95 | 1.60 | 0.56 | 1.07 | 1.66 | 2.14 | 1.62 |
| 18-HC-08 | 23.00 | 26.00 | 2.88 | 0.96 | 2.18 | 0.76 | -0.38 | 0.01 | -0.43 | -0.27 |
| 18-HC-08 | 26.00 | 29.00 | 2.9 | 0.97 | 2.87 | 0.99 | 0.32 | 1.75 | 1.93 | 1.33 |
| 18-HC-08 | 29.00 | 32.00 | 2.8 | 0.93 | 1.39 | 0.50 | 1.9 | 0.09 | 1.44 | 1.14 |
| 18-HC-08 | 32.00 | 35.00 | 3 | 1.00 | 2.94 | 0.98 | 0.07 | 0.1 | 1.46 | 0.54 |
| 18-HC-08 | 35.00 | 38.00 | 3 | 1.00 | 2.66 | 0.89 | 1.97 | 0.1 | -0.32 | 0.58 |
| 18-HC-08 | 38.00 | 41.00 | 2.9 | 0.97 | 2.10 | 0.72 | -0.14 | 2.23 | -0.29 | 0.60 |
| 18-HC-08 | 41.00 | 44.00 | 3.03 | 1.01 | 2.94 | 0.97 | 0.12 | 1.06 | 3.42 | 1.53 |
| 18-HC-08 | 44.00 | 47.00 | 3 | 1.00 | 2.70 | 0.90 | 1.28 | -0.67 | 0.1 | 0.24 |
| 18-HC-08 | 47.00 | 50.00 | 2.86 | 0.95 | 1.34 | 0.47 | -0.03 | 0.6 | -0.09 | 0.16 |
| 18-HC-08 | 50.00 | 53.00 | 3 | 1.00 | 1.65 | 0.55 | 0.21 | 0.1 | 0.21 | 0.17 |
| 18-HC-08 | 53.00 | 56.00 | 2.83 | 0.94 | 2.00 | 0.71 | 0.07 | -0.01 | 0.21 | 0.09 |
| 18-HC-08 | 56.00 | 59.00 | 3.03 | 1.01 | 2.10 | 0.69 | 15.3 | 0.05 | -0.75 | 4.87 |

2018 Drill Hole Geotechnical Measurements

| Hole ID | From | To | Recovery | Recovery Percent | RQD | RQD Percent | Magsus 1 | Magsus 2 | Magsus 3 | MagSus Ave |
|----------|-------|-------|----------|------------------|------|-------------|----------|----------|----------|------------|
| 18-HC-09 | 1.04 | 2.00 | 0.96 | 1.00 | 0.70 | 0.73 | 27.7 | 0.01 | -0.69 | 9.01 |
| 18-HC-09 | 2.00 | 5.00 | 3 | 1.00 | 2.26 | 0.75 | 9.74 | 0.25 | -0.05 | 3.31 |
| 18-HC-09 | 5.00 | 8.00 | 2.98 | 0.99 | 1.85 | 0.62 | 1.9 | -0.16 | -0.8 | 0.31 |
| 18-HC-09 | 8.00 | 11.00 | 3 | 1.00 | 1.60 | 0.53 | -0.16 | 0.31 | 1.39 | 0.51 |
| 18-HC-09 | 11.00 | 14.00 | 3 | 1.00 | 2.12 | 0.71 | 0.38 | -0.1 | 0.75 | 0.34 |
| 18-HC-09 | 14.00 | 17.00 | 2.97 | 0.99 | 2.45 | 0.82 | 4.42 | 1.07 | 0.62 | 2.04 |
| 18-HC-09 | 17.00 | 20.00 | 2.3 | 0.77 | 1.00 | 0.43 | 0.18 | 3.45 | 0.69 | 1.44 |
| 18-HC-09 | 20.00 | 23.00 | 2.94 | 0.98 | 1.70 | 0.58 | 0.51 | -0.38 | 1.39 | 0.51 |
| 18-HC-09 | 23.00 | 26.00 | 3.02 | 1.01 | 2.82 | 0.93 | 0.05 | 3.64 | 0.27 | 1.32 |
| 18-HC-09 | 26.00 | 29.00 | 3.03 | 1.01 | 2.53 | 0.83 | -0.42 | 3.29 | -0.81 | 0.69 |
| 18-HC-09 | 29.00 | 32.00 | 2.96 | 0.99 | 2.85 | 0.96 | 0.01 | 1.39 | -0.05 | 0.45 |
| 18-HC-09 | 32.00 | 35.00 | 2.85 | 0.95 | 2.60 | 0.91 | 0.75 | -0.87 | 0.32 | 0.07 |
| 18-HC-09 | 35.00 | 38.00 | 2.97 | 0.99 | 2.60 | 0.88 | -0.58 | 0.42 | 0.43 | 0.09 |
| 18-HC-09 | 38.00 | 41.00 | 3.08 | 1.03 | 2.70 | 0.88 | -0.16 | -0.2 | -0.16 | -0.17 |
| 18-HC-09 | 41.00 | 44.00 | 3.02 | 1.01 | 2.40 | 0.79 | 1.09 | 2.21 | 0.65 | 1.32 |
| 18-HC-09 | 44.00 | 47.00 | 2.7 | 0.90 | 0.96 | 0.36 | -0.2 | 0.82 | -0.45 | 0.06 |
| 18-HC-09 | 47.00 | 50.00 | 2.87 | 0.96 | 2.02 | 0.70 | 0.75 | -0.78 | 0.42 | 0.13 |
| 18-HC-09 | 50.00 | 53.00 | 3.03 | 1.01 | 2.84 | 0.94 | -0.05 | -0.38 | 1.53 | 0.37 |
| 18-HC-09 | 53.00 | 56.00 | 2.9 | 0.97 | 1.75 | 0.60 | -0.34 | 0.23 | -0.6 | -0.24 |
| 18-HC-09 | 56.00 | 59.00 | 3.06 | 1.02 | 2.62 | 0.86 | 0.64 | 0.29 | 0.21 | 0.38 |
| 18-HC-09 | 59.00 | 62.00 | 3.04 | 1.01 | 1.84 | 0.61 | 1.35 | -0.47 | 0.03 | 0.30 |
| 18-HC-09 | 62.00 | 65.00 | 2.95 | 0.98 | 2.80 | 0.95 | 1.22 | 2.34 | 0.21 | 1.26 |
| 18-HC-09 | 65.00 | 68.00 | 3 | 1.00 | 2.04 | 0.68 | 2.45 | 0.21 | 2.69 | 1.78 |
| 18-HC-09 | 68.00 | 71.00 | 3.05 | 1.02 | 2.05 | 0.67 | 0.01 | 1.68 | 0.23 | 0.64 |
| 18-HC-09 | 71.00 | 74.00 | 2.9 | 0.97 | 2.62 | 0.90 | 0.91 | 1.88 | 0.8 | 1.20 |
| 18-HC-09 | 74.00 | 77.00 | 3.04 | 1.01 | 2.07 | 0.68 | 4.19 | 0.1 | 0.36 | 1.55 |
| 18-HC-09 | 77.00 | 80.00 | 2.8 | 0.93 | 1.20 | 0.43 | 1.07 | 1.77 | -0.18 | 0.89 |
| 18-HC-10 | 1.00 | 2.00 | 1 | 1.00 | 0.26 | 0.26 | 4.09 | 30.1 | 4.45 | 12.88 |
| 18-HC-10 | 2.00 | 5.00 | 2.84 | 0.95 | 1.97 | 0.69 | 9.22 | 32 | 32.7 | 24.64 |
| 18-HC-10 | 5.00 | 8.00 | 2.97 | 0.99 | 1.98 | 0.67 | 123 | 83.6 | 68.8 | 91.80 |
| 18-HC-10 | 8.00 | 11.00 | 3 | 1.00 | 2.82 | 0.94 | 62.2 | 55.9 | 70.6 | 62.90 |
| 18-HC-10 | 11.00 | 14.00 | 3.03 | 1.01 | 2.64 | 0.87 | 54.4 | 55 | 45.2 | 51.53 |
| 18-HC-10 | 14.00 | 17.00 | 3.03 | 1.01 | 2.55 | 0.84 | 49.9 | 5.81 | 36.6 | 30.77 |
| 18-HC-10 | 17.00 | 20.00 | 2.72 | 0.91 | 1.90 | 0.70 | 40.9 | 1.45 | 0.618 | 14.32 |
| 18-HC-10 | 20.00 | 23.00 | 3.02 | 1.01 | 2.51 | 0.83 | 0.846 | 0.52 | 0.596 | 0.65 |
| 18-HC-10 | 23.00 | 26.00 | 3.01 | 1.00 | 2.42 | 0.80 | 0.689 | 1.38 | 8.16 | 3.41 |
| 18-HC-10 | 26.00 | 29.00 | 2.97 | 0.99 | 1.77 | 0.60 | 24.1 | 6.22 | 70.5 | 33.61 |
| 18-HC-10 | 29.00 | 32.00 | 2.98 | 0.99 | 2.51 | 0.84 | 10.4 | 25.8 | 6.29 | 14.16 |
| 18-HC-10 | 32.00 | 35.00 | 2.9 | 0.97 | 1.87 | 0.64 | 36.4 | 3.72 | 52.2 | 30.77 |
| 18-HC-10 | 35.00 | 38.00 | 2.99 | 1.00 | 2.72 | 0.91 | 60.6 | 38.8 | 19.9 | 39.77 |
| 18-HC-10 | 38.00 | 41.00 | 2.98 | 0.99 | 2.55 | 0.86 | 32.3 | 21 | 28.4 | 27.23 |
| 18-HC-10 | 41.00 | 44.00 | 3.05 | 1.02 | 2.17 | 0.71 | 18 | 32.3 | 48.6 | 32.97 |
| 18-HC-10 | 44.00 | 45.50 | 1.47 | 0.98 | 1.04 | 0.71 | 56.4 | 53.1 | 54.71 | 54.74 |

2018 Drill Core Lithology

| Hole ID | From | To | Interval | Lithology | Colour | Description |
|---------|-------|--------|----------|--------------------------------|-------------------------------------|--|
| 18HC01 | 4.85 | 20.70 | 15.85 | Coarse grained Diabase | Medium grey/green with white specks | Massive, medium to coarse-grained, grey to green, weakly - moderately altered diabase with medium-grained white specks (30-40%) and trace up to 0.2% sulphides. White specks have green margins and appears to be generally elongated, euhedral to anhedral plagioclase that has gone some alteration. Within this zone, cm-scale intervals (<5%) contain maroon-red alteration and appears to be more silicified and potassic in nature. These overgrown the plagioclase and generally contain a high modal % of sulphides than the rest of the zone. Sulphides are disseminated and mainly constitute trace pyrite and cpy. |
| 18HC01 | 20.70 | 29.80 | 9.10 | Altered coarse-grained Diabase | Medium green and maroon | Massive, medium to coarse - grained, moderately altered with maroon-coloured, potassic alteration. This interval have gradational contacts with the surrounding rocks. Trace disseminated sulphides (pyrite) is seen throughout this interval. This interval is silicified and more fractured; where fractured the rocks are oxidized. |
| 18HC01 | 29.80 | 35.20 | 5.40 | Primary Diabase | Dark green | Massive, dark-coloured, unaltered, non mineralized diabase. |
| 18HC01 | 35.20 | 37.10 | 1.90 | Weakly altered Diabase | Dark green with red specks | Massive, finer-grained, weakly altered, weakly mineralized rock. Trace minute epidote veinlets crosscut this interval (not related to mineralization). Sulphides are trace and mainly constitute pyrite. |
| 18HC01 | 37.10 | 49.40 | 12.30 | Primary Diabase | Dark green | Massive, dark-coloured, unaltered, non mineralized diabase. |
| 18HC01 | 49.40 | 57.80 | 8.40 | Weakly altered Diabase | Dark green with red specks | Massive, weakly altered, finer-grained, weakly mineralized rock. Trace minute black veinlets [XRF - Fe 100K - 175K; Co; below detection limit] crosscut this interval @ 47.8m and 49.65m. Sulphides are trace and range from fine-grained to medium-grained individual pyrite, a single mm-scale sulphide stringer @ 49.45m, clots of ultrafine-grained sulphides - these are strongly associated with the pink K-alteration. The appearance of sulphides and alteration dissapate from 56.60 - 65.85m (almost primary diabase) and increases again from 66.10 - 68.33m. From 75.3 - 77m, the rocks are moderately altered and crosscut by irregular light pink veinlets (XRF - Co; below DL) but sulphide % is roughly 0.5% (big 1cm wide clot of fine-grained pyrite and Cpy is with one of the pink veins @ 75.85m. |
| 18HC01 | 57.80 | 85.70 | 27.90 | Primary Diabase | Dark green | Massive, dark-coloured, chlorite-altered with trace fine-grained sulphides. |
| 18HC02 | 3.00 | 14.50 | 11.50 | Coarse-grained Diabase | Medium green with white specks | Massive, medium to coarse-grained, green, weakly altered with patches of moderate alteration (up to 5% of K-alteration + silicification) and mineralization (diss pyrite and cpy). The rocks exhibit medium-grained, elongated, euhedral to anhedral white specks (sauced plagioclase, 30-40%) with green margins. The potassic zones are more silicified and contain more sulphide % than chloritic zones. |
| 18HC02 | 14.50 | 25.00 | 10.50 | Altered coarse-grained diabase | Medium green and maroon | Massive, medium to coarse - grained, moderately altered with maroon-coloured, potassic and light-green propylitic alteration. This interval have gradational contacts with the upper and lower intervals (lower transitions over few cm). Minor disseminated sulphides (pyrite and chalcopyrite) is seen throughout this interval. Fractures of the rocks are more evident from 22.10 - 25m and generally are oxidized. |
| 18HC02 | 25.00 | 31.75 | 6.75 | Weakly altered diabase | Dark green with red specks | Massive, finer-grained, weakly altered with patches of moderate alteration from 27.10 - 29.7m and around veining, weakly - moderately mineralized rock with trace clots of cpy, disseminated and clots of py throughout. Minor mm to cm-scale, pink + white / K-carb veins crosscut this interval with no sulphides in or surrounding the veins. The last 1 - 2m of this interval is transitional to the primary diabase, trace alteration and ONLY due to the presence of sulphides were included in this zone. |
| 18HC02 | 31.75 | 45.75 | 14.00 | Primary Diabase | Dark green | Massive, dark-coloured, chlorite-altered with trace individual specks of fine-grained sulphides. No potassic alteration. |
| 18HC02 | 45.75 | 54.90 | 9.15 | Weakly altered diabase | Dark green with red specks | Massive, finer-grained, weakly altered diabase with patches of moderate alteration. The weak alteration halo extends 1-2m around the main alteration halo (48.95 - 54m); this interval is moderately mineralized with up to 0.5% sulphides; clots of disseminated + clotty py and disseminated cpy. Within this mod. alteration halo, a 15cm wide zone is strongly altered (51.20 - 51.35m). |
| 18HC02 | 54.90 | 66.20 | 11.30 | Primary Diabase | Dark green | Massive, dark-coloured, chlorite-altered with rare fine-grained sulphides. |
| 18HC02 | 66.20 | 69.00 | 2.80 | Weakly altered diabase | Dark green with red specks | Massive, finer-grained, weakly altered diabase with veining. The alteration is limited to mm to cm-scale veining and mineralization is mostly pyrite (disseminated and clusters). The veining is basically K-carb-chlorite with trace quartz; some sulphide is adjacent to these veins. The bottom 30cm of this interval is not altered but is included in this interval ONLY due to the presence of sulphides (up to 2% py). |
| 18HC02 | 68.90 | 105.00 | 36.10 | Rarely-altered primary diabase | Dark green | Massive, dark-coloured, chlorite-altered with rare pink specks of K-alteration. This interval hosts 2 unique veins (a shallow angle, barren, 1cm wide pink vein at 84 - 84.20m and a mineralized, 3-4cm wide vein at 94.45m) and a moderately silicified - mineralized zone at 87.07 - 87.20m with up to 2% sulphides). Also, between 89.45 and 91.45, disseminated sulphides is seen despite the rock lack any potassic alteration, only chlorite. |

2018 Drill Core Lithology

| Hole ID | From | To | Interval | Lithology | Colour | Description |
|---------|-------|--------|----------|-------------------------------------|--------------------------------|--|
| 18HC03 | 3.00 | 10.50 | 7.50 | Coarse-grained Diabase | Medium green with white specks | Massive, medium to coarse-grained, green, weakly altered with patches of moderate alteration (up to 5% of K-alteration + silicification) and mineralization (diss pyrite and cpy). The rocks exhibit medium-grained, elongated, euhedral to anhedral white specks (saucertized plagioclase, 30-40%) with green margins. The potassic zones are more silicified and contain more sulphide % than chloritic zones but still considered trace except for a 15cm wide zone @ 9.04 - 9.14cm. |
| 18HC03 | 10.50 | 24.30 | 13.80 | Altered coarse-grained diabase | Medium green and maroon | Massive, medium to coarse - grained, moderately altered with pink and maroon-coloured, potassic and light-green propylitic alteration. This interval contain patches of moderately altered diabase up to 19.30m (which can be considered part of the previous lithology, but the percentage of altered/mineralized patches is noticeable to consider it within this interval). This is marked by moderate alteration / mineralization below 19.3m, which is true representation of the same unit seen in hole 2. Noticeable amount of disseminated and clotty sulphides (pyrite and chalcopyrite) are seen throughout. From 23.45 - 23.72, the rock is strongly altered with K and trace sulphides |
| 18HC03 | 24.40 | 25.10 | 0.70 | Primary Diabase | Dark green | Massive, dark-coloured, chlorite-altered with rare fine-grained sulphides. |
| 18HC03 | 25.10 | 44.40 | 19.30 | Weakly - moderately altered diabase | Dark green and red specks | Massive, finer-grained, weakly altered diabase with moderate - strong alteration from 28.9 - 29.22m, possibly vein (no upper sharp contact though). The alteration is mainly potassic and mineralization range from trace up to 3% sulphides over multiple narrow zones (1cm up to 10cm, 5% of this interval); mostly pyrite (disseminated and in clusters). The rock from 29.3 - 31.5m is more fractured and oxidized, comparable to that in hole 2 @ 22.10 - 25m. |
| 18HC03 | 44.40 | 54.00 | 9.60 | Primary Diabase | Dark green | Massive, dark-coloured, chlorite-altered with trace individual specks of fine-grained sulphides. No potassic alteration. |
| 18HC03 | 54.00 | 55.50 | 1.50 | Weakly altered diabase | Dark green and red specks | Massive, finer-grained, weakly altered diabase. Gradational change in alteration with surrounding rocks and weak K-fluids crosscutting the rock at 54.78m over 3-4cm. Minor sulphides mainly fine to medium-grained py from 54.05 - 54.6m, disseminated and clotty. |
| 18HC03 | 55.50 | 105.00 | 49.50 | Primary Diabase | Dark green | Massive, dark-coloured, chlorite-altered with trace individual specks of fine-grained sulphides. No potassic alteration. A 1-3mm maroon vein occur at 59.5 - 59.9m at a shallow angle to core axis. |
| 18HC04 | 4.04 | 12.50 | 8.46 | Coarse-grained Diabase | Medium green with white specks | Massive, coarse-grained, green, weakly altered (up to 5% K-alteration) and trace mineralization (diss pyrite particularly from 7.12 - 8m). The rocks exhibits medium to coarse-grained, elongated, euhedral to anhedral white specks with green margins (saucertized plagioclase, 30-40%). |
| 18HC04 | 12.50 | 21.42 | 8.92 | Altered coarse-grained diabase | Medium green and maroon | Massive, medium to coarse - grained, moderately altered with pink and maroon-coloured, potassic and light-green propylitic alteration. This interval contain cm - dm patches of moderate alteration (12.5 - 12.8; 13.11 - 13.5; 16.35 - 16.75m) with disseminated and clotty sulphides (up to 5%). The upper contact is transitional, however, the lower contact is slightly more defined over few centimeters. From 20m, the interval is similar to the same "spotty-red zone" seen in hole 2 and 3. Noticeable amount of disseminated and clotty sulphides (pyrite; 5%) is seen from 14.42 - 17.5m) |
| 18HC04 | 21.42 | 45.50 | 24.08 | Weakly altered diabase | Dark green with red specks | Massive, finer-grained, weakly altered diabase with trace sulphides and trace sub-mm pink veinlets at shallow degree to core axis. The rock exhibits a sharp change in alteration over few centimeters. |
| 18HC04 | 45.50 | 51.80 | 6.30 | Primary Diabase | Dark green | Massive, dark-coloured, chlorite-altered with trace individual specks of fine-grained sulphides. No potassic alteration. |
| 18HC04 | 51.80 | 52.10 | 0.30 | Weakly - moderately altered diabase | Dark green and red specks | Massive, finer-grained, weakly altered diabase with moderate - strong alteration over this zone. The alteration is potassic + silica, and mineralization is mainly pods of pyrite (up to 1cm) |
| 18HC04 | 52.10 | 55.50 | 3.40 | Primary Diabase | Dark green | Massive, dark-coloured, chlorite-altered with trace specks of fine-grained sulphides. No potassic alteration. |
| 18HC04 | 55.50 | 57.35 | 1.85 | Weakly - moderately altered diabase | Dark green and red specks | Massive, finer-grained, weakly altered diabase with moderate - strong K-alteration around mm to cm-scale veining (K-Carb-Chl-Qtz). Mineralization is trace disseminated pyrite. The rock is more fractured at the lower contact with the vein. |
| 18HC04 | 57.35 | 99.00 | 41.65 | Primary Diabase | Dark green | Massive, dark-coloured, chlorite-altered with trace up to 0.2% sulphides (disseminated specks and clots) in cm-scale patches/veins |
| 18HC05 | 1.56 | 13.90 | 12.34 | Coarse-grained Diabase | Medium green with white specks | Massive, coarse-grained, green, weakly altered (up to 5% K-alteration) and trace mineralization (diss pyrite near magnetite halos). The rocks exhibits medium to coarse-grained, elongated, euhedral to anhedral white specks with green margins (saucertized plagioclase, 30-40%). |

2018 Drill Core Lithology

| Hole ID | From | To | Interval | Lithology | Colour | Description |
|---------|-------|-------|----------|--------------------------------|--------------------------------|--|
| 18HC05 | 13.90 | 24.34 | 10.44 | Altered coarse-grained diabase | Medium green and maroon | Massive, medium to coarse - grained, moderately altered with red/and maroon-coloured, potassic and light-green propylitic alteration. This interval contain cm - dm patches of strong alteration (14.6-15.65m) with disseminated and clotty sulphides (up to 2%). The upper contact is transitional, however, the lower contact is slightly more defined over few centimeters. Noticeable amount of clotty sulphides in a 1cm wide stringer @ 15 - 15.1m (pyrite; 5%). |
| 18HC05 | 24.34 | 52.50 | 28.16 | Weakly altered diabase | Dark green with red specks | Massive, finer-grained, weakly altered diabase (interlayered intervals of primary and weakly altered diabase) with trace sulphides and sub-mm pink veinlets up to 10cm wide K-carb-chlorite-quartz veins (up to 5% sulphides) - veins are @ 40 - 50 degree to core axis. From 36.02 - 42.5m, there are cm-scale patches (~10%) of moderate - strong alteration (possibly veining) with minor sulphides. |
| 18HC05 | 52.50 | 91.20 | 38.70 | Primary Diabase | Dark green | Massive, dark-coloured, chlorite-altered with trace sulphides (disseminated specks and clots) in mm to cm-scale patches/veins (<2%). |
| 18HC06 | 0.40 | 12.30 | 11.90 | Coarse-grained Diabase | Medium green with white specks | Massive, coarse-grained, green, weakly altered (up to 5% K-alteration) and trace mineralization (diss pyrite near magnetite halos). The rocks exhibits medium to coarse-grained, elongated, euhedral to anhedral white specks with green margins (sauceditized plagioclase, 30-40%). |
| 18HC06 | 12.30 | 20.80 | 8.50 | Altered coarse-grained diabase | Medium green and maroon | Massive, medium to coarse - grained, moderately altered with red & maroon-coloured, potassic and light-green propylitic alteration. This interval contain cm - dm patches of strong alteration (12.6-13.10m; 5% sulphides) with disseminated and clotty sulphides (up to 3%) throughout this interval. The upper contact is transitional, however, the lower contact is slightly more defined over few centimeters. Clotty sulphides are seen in chlorite pods. |
| 18HC06 | 20.80 | 52.35 | 31.55 | Weakly altered diabase | Dark green with red specks | Massive, finer-grained, weakly altered diabase (interlayered intervals of primary and weakly altered diabase) with trace sulphides and sub-mm light red /pink veinlets @ 40 - 50 degree to core axis. From 49-52.35m, there are cm to dm-scale patches of moderate alteration and sulphidization around veining. |
| 18HC06 | 52.35 | 98.50 | 46.15 | Primary Diabase | Dark green | Massive, dark-coloured, chlorite-altered with trace sulphides (disseminated specks and clots). Trace mm-scale veinlets and 1 major vein (7cm wide mineralized vein) @ 73.4 - 73.75m. |
| 18HC07 | 2.80 | 10.73 | 7.93 | Coarse-grained Diabase | Medium green with white specks | Massive, coarse-grained, green, weakly altered (up to 5% K-alteration) and trace mineralization (diss pyrite near magnetite halos). The rocks exhibits medium to coarse-grained, elongated, euhedral to anhedral white specks with green margins (sauceditized plagioclase, 30-40%), spotty K-feldspars and dark grey magnetite. A 20cm wide altered zone at 4.17 - 4.37m |
| 18HC07 | 10.73 | 24.24 | 13.51 | Altered coarse-grained diabase | Medium green and maroon | Massive, medium to coarse - grained, moderately altered with red /maroon-coloured, potassic and light-green propylitic alteration interlayered with cm-dm patches of the upper lithology. The rock contains disseminated and clotty sulphides; a sulphide stringer @ 11.45 - 11.55m contains up to 25% pyrite. The lower contact is defined over few centimeters. |
| 18HC07 | 24.24 | 63.00 | 38.76 | Weakly altered diabase | Dark green with red specks | Massive, finer-grained, weakly altered diabase (interlayered intervals of primary and weakly altered diabase) with trace sulphides and sub-mm light red /pink veinlets @ 40 - 50 degree to core axis. From 48-54m, there are trace sub mm-scale veinlets with no sulphides but 1-2cm patches of moderate alteration is seen between 48.2 - 48.4m. |
| 18HC07 | 63.00 | 74.00 | 11.00 | Primary Diabase | Dark green | Massive, dark-coloured, chlorite-altered with trace sulphides (disseminated specks and clots). Trace mm-scale veinlets. |
| 18HC08 | 2.70 | 6.20 | 3.50 | Coarse-grained Diabase | Medium green with white specks | Massive, coarse-grained, green, weakly altered (up to 5% K-alteration) and trace mineralization (diss pyrite near magnetite halos). The rocks exhibits medium to coarse-grained, elongated, euhedral to anhedral white specks with green margins (sauceditized plagioclase, 30-40%), spotty K-feldspars and dark grey magnetite. |
| 18HC08 | 6.20 | 19.00 | 12.80 | Altered coarse-grained diabase | Medium green and maroon | Massive, medium to coarse - grained, moderately altered with patches of strong K-alteration. The rock exhibits a red /maroon-coloured potassic and light-green propylitic alteration. Disseminated and clotty sulphides is common; a cm-scale sulphide stringer @ 9.42m contains up to 25% pyrite. The lower contact with the vein is sharp. |
| 18HC08 | 19.00 | 23.27 | 4.27 | Potassic vein | Dull red | Light red K-vein with minor sulphides (pyrite), strongly silicified, contains narrow zones of the host rocks. |
| 18HC08 | 23.27 | 59.00 | 35.73 | Weakly altered diabase | Dark green with red specks | Massive, finer-grained, weakly altered (interlayered intervals of primary and weakly altered) diabase with trace sulphides and trace sub-mm white - pink veinlets @ 40 - 50 degree to core axis. From 49.75-50m. there is minor alteration - no sign of sulphides. There are trace sub mm veinlets throughout up to cm-scale veins/strong alteration halos (from 31.7 - 33.07m) with trace sulphides in veins and its margins. |

2018 Drill Core Lithology

| Hole ID | From | To | Interval | Lithology | Colour | Description |
|---------|-------|-------|----------|--------------------------------|--------------------------------|--|
| 18HC09 | 0.40 | 8.45 | 8.05 | Coarse-grained Diabase | Medium green with white specks | Massive, coarse-grained, green, weakly altered (up to 5% K-alteration) and trace mineralization (diss pyrite). The rocks exhibits medium to coarse-grained, elongated, euhedral to anhedral white specks with green margins (saucedertized plagioclase, 30-40%), spotty K-feldspars and dark grey magnetite. A 0.5cm wide vein (silica - carb - chlorite with hematite spots) runs along the core axis (5 degree) from 4.7 - 6.10m. |
| 18HC09 | 8.45 | 20.40 | 11.95 | Altered coarse-grained diabase | Medium green and maroon | Massive, medium to coarse - grained, moderately altered with patches of strong K-silica alteration (12.25 - 13.65m; 16.10-20.4m) . The rock exhibits a red /maroon-coloured potassic and light-green propylitic alteration. Disseminated and clotty sulphides is common. The rocks is intruded by a shallow-angled vein from 17.6 - 20.5m) |
| 18HC09 | 20.40 | 27.50 | 7.10 | Weakly altered diabase | Dark green with red specks | Massive, finer-grained, weakly altered (interlayered intervals of primary and weakly altered) diabase with trace sulphides and trace sub-mm white - pink veinlets @ 40 - 50 degree to core axis. From 22-23m, the amount of K-specks are moderate and sulphides increase up to 20% cpy @ 22.60-23m. |
| 18HC09 | 27.50 | 39.90 | 12.40 | Primary Diabase | Dark green | Massive, dark-coloured, chlorite-altered with trace sulphides (disseminated specks and clots). Trace mm-scale veinlets. |
| 18HC09 | 39.90 | 57.50 | 17.60 | Rarely altered diabase | Dark green with red specks | Massive, finer-grained, rarely altered diabase with meter patches of weak alteration; trace sulphides and trace sub-mm white - pink veinlets @ 40 - 50 degree to core axis between 42.5 - 43.5m and 47.6 - 48.3m. |
| 18HC09 | 57.50 | 80.00 | 22.50 | Primary Diabase | Dark green | Massive, dark-coloured, chlorite-altered with trace sulphides (disseminated specks and clots). Trace mm-scale veinlets. |
| 18HC10 | 1.00 | 10.90 | 9.90 | Coarse-grained Diabase | Medium green with white specks | Massive, coarse-grained, green, weakly altered (up to 5% K-alteration) and trace mineralization (diss pyrite). The rocks exhibits medium to coarse-grained, elongated, euhedral to anhedral white specks with green margins (saucedertized plagioclase, 30-40%), spotty K-feldspars and dark grey magnetite. Very weak alteration from 5.12 - 6.57m and a patch of moderate alteration from 7.66 - 8.07m with trace sulphides. |
| 18HC10 | 10.90 | 17.85 | 6.95 | Altered coarse-grained diabase | Medium green and maroon | Massive, medium to coarse - grained, moderately altered with patches of strong K-silica alteration (16.15 - 17.85m) The rock exhibits a red /maroon-coloured potassic and light-green propylitic alteration. Both disseminated and clotty sulphides is seen in the strongly altered patch. The rocks is intruded by a 15cm vuggy, light red vein (equivalent to V2 in the last hole) @ 16m. The first 2m of this 'unit' is transitional but the lower contact is slightly more defined. |
| 18HC10 | 17.85 | 24.50 | 6.65 | Silicified diabase | Medium green - grey | Massive, medium green to grey, moderately to strongly silicified and mineralized zone with up to 10 % sulphides (> 5% cpy and py in dm-scale patches within this zone). |
| 18HC10 | 24.50 | 36.80 | 12.30 | Weakly altered diabase | Dark green with red specks | Massive, finer-grained, weakly altered diabase with patches of moderate alteration / mineralization. Minor sulphides (up to 1%) and trace, white - pink veinlets, sub mm up to 1cm wide pink (Eritherite-coloured vein @ 31.77m with a 1cm wide nlob of cpy). |
| 18HC10 | 36.80 | 45.50 | 8.70 | Rarely altered diabase | Dark green with red specks | Massive, finer-grained, rarely altered diabase intermixed with patches of primary diabase, trace sulphides and trace sub-mm white - pink veinlets @ 40 - 50 degree to core axis - no sulphides. |

2018 Drill Core Alteration

| Hole ID | From | To | Alteration | Intensity | Description |
|---------|-------|-------|----------------------------|------------------------|---|
| 18HC01 | 5.12 | 20.7 | Potassic / Chlorite/Silica | Weak / moderate | Weak potassic alteration overprinting moderate propylitic alteration. Patches (<5%) of moderate K-alteration. |
| 18HC01 | 20.7 | 27.1 | Potassic / Chlorite/Silica | Moderate / weak | Moderate potassic alteration overprint chlorite and sauccertized plagioclase |
| 18HC01 | 27.1 | 29.8 | Potassic / Chlorite/Silica | Strong /weak | A relatively strong potassic alteration overprint chlorite and sauccertized plagioclase |
| 18HC01 | 29.8 | 35.2 | Potassic | Weak | Weak potassic alteration |
| 18HC01 | 35.2 | 37.1 | Potassic | Moderate | Moderate potassic alteration |
| 18HC01 | 37.1 | 53.2 | Potassic | Weak | Weak potassic alteration |
| 18HC01 | 53.2 | 57.8 | Potassic /silica | Moderate / weak | Moderate K-alteration (spotty pink) and minor silification - core is harder than surrounding intervals + more sulphides (marked on core) |
| 18HC01 | 57.8 | 66.1 | Potassic | Weak | Weak potassic alteration. Trace sulphides |
| 18HC01 | 66.1 | 68.33 | Potassic | Weak - moderate | Patches (~30%) of moderate K-alteration. Malachite staining at 68m (XRF - Co; Below DL). |
| 18HC01 | 68.33 | 75.25 | Potassic | Weak | Weak potassic alteration. Rare sulphides |
| 18HC01 | 75.25 | 76.46 | Potassic | Moderate | Moderate K-alteration (spotty pink) and moderate pink veining + more sulphides (marked on core). XRF - Co; 1.2K |
| 18HC01 | 76.46 | 85.7 | Potassic / Chlorite | Rare - none / moderate | Moderate chlorite alteration in dark green, gabbroic- textured rocks. Trace sulphides |
| 18HC02 | 3 | 14.5 | Potassic / Propylitic | Weak / Moderate | Weak spotty K-alteration with cm-scale zones (1%; 7 - 10 cm zone @ 3.47 and 5.6-5.7) with moderate K-alteration and sulphides. Chlorite clots and sauccertized plagioclase is common. |
| 18HC02 | 14.5 | 21.7 | Potassic | Weak - moderate | Moderate potassic alteration dominates that transition into the next zone. Few zones are weakly altered - comparable to the first zone in this hole. Sauccertized cg-plagioclase is abundant. |
| 18HC02 | 21.7 | 27.8 | Potassic | Moderate | Moderate K-alteration dominates with abundant pink throughout, no plagioclase. |
| 18HC02 | 27.8 | 45.75 | Potassic | Rare | |
| 18HC02 | 45.75 | 48.95 | Potassic | Weak | Spotty K-alteration. |
| 18HC02 | 48.95 | 53.5 | Potassic | Moderate | Moderate K-alteration dominates with abundant pink throughout. A strongly altered zone extends over 15cm from 51.20 - 51.35. The zone is transitional into upper and lower zones |
| 18HC02 | 53.5 | 54.9 | Potassic | Weak | Spotty K-alteration. |
| 18HC02 | 54.9 | 66.2 | Potassic / Chlorite | Rare / Weak | Chlorite alteration dominates over K-alteration. |
| 18HC02 | 66.2 | 67.8 | Potassic | Weak | Spotty K-alteration. |
| 18HC02 | 67.8 | 105 | Potassic / Chlorite | Rare / Mod | Rare K-alteration with moderate chlorite alteration. Chlorite alteration increase around veining. |
| 18HC03 | 3 | 10.5 | Potassic | Rare | Rare K-alteration with moderate chlorite alteration. Chlorite clots and sauccertized plagioclase is common as well as magntite halos |
| 18HC03 | 10.5 | 19.3 | Potassic / Propylitic | Weak / Moderate | Weak spotty K-alteration with cm-scale zones with moderate K-alteration and sulphides. Chlorite clots and sauccertized plagioclase is still common. |
| 18HC03 | 19.3 | 23.45 | Potassic /silica | Moderate | Moderate K-alteration dominates with abundant pink throughout, no plagioclase. Silicified + K intervals within this zone at 40 - 60 degree to core axis hosts most of the minerlization. |
| 18HC03 | 23.45 | 23.72 | Potassic | Strong | Strong K-alteration but only trace fine-grained py is seen |
| 18HC03 | 23.7 | 24.4 | Potassic /silica | Moderate | Moderate K-alteration dominates with abundant pink throughout, no plagioclase |
| 18HC03 | 24.4 | 25.1 | Potassic | Rare/none | Rare K-alteration and moderate propylitic alteration |
| 18HC03 | 25.1 | 28.9 | Potassic /silica | Weak / Moderate | Moderate K-alteration dominates with abundant pink throughout, trace plagioclase |
| 18HC03 | 28.9 | 29.22 | Potassic | Strong | Strong K-alteration and chloritized mafics, only trace fine-grained py is seen |
| 18HC03 | 29.22 | 34.4 | Potassic | Weak - Moderate | Moderate K-alteration dominates with patches of weak alteration, no plagioclase |
| 18HC03 | 34.4 | 44.4 | Potassic / Chlorite | Weak/moderate | Spotty K-alteration with minor disseminated sulphides |
| 18HC03 | 44.4 | 54 | Potassic | Rare/none | Rare K-alteration and moderate propylitic alteration |
| 18HC03 | 54 | 55.1 | Potassic | Weak - Moderate | Moderate K-alteration dominates with patches of weak alteration, no plagioclase |
| 18HC03 | 55.1 | 93.5 | Potassic | Rare/none | Rare K-alteration and moderate propylitic alteration. From 68m onward, creamy plagioclase (20 - 30%) is seen throughout the core. |
| 18HC03 | 93.5 | 95.5 | Chlorite / silica | Moderate | Strong chlorite and moderate silica alteration with diss and clotty py (fg - mg), 1-2% sulphides |
| 18HC03 | 95.5 | 105 | Potassic | Rare/none | Rare potassic alteration + spotty altered plagioclase. |
| 18HC04 | 4.04 | 12.5 | Potassic | Rare | Rare K-alteration with moderate chlorite alteration. Chlorite clots and sauccertized plagioclase is common as well as magntite. |

2018 Drill Core Alteration

| Hole ID | From | To | Alteration | Intensity | Description |
|---------|-------|-------|-----------------------|------------------|--|
| 18HC04 | 12.5 | 20 | Potassic / Propylitic | Weak / Moderate | Weak spotty K-alteration with cm-scale zones moderate K-alteration + sulphides. Chlorite clots and saucertized plagioclase is still common. Strong alteration from 12.5 - 12.8; 13.11 - 13.5; 16.35 - 16.75 and 17.4 - 17.5m |
| 18HC04 | 20 | 21.4 | Potassic / silica | Moderate | Moderate K-alteration dominates + minor silification, no/rare plagioclase. |
| 18HC04 | 21.4 | 45.5 | Potassic | Weak | Weak spotty K-alteration with trace sub-mm pink veinlets and trace sulphides. |
| 18HC04 | 45.5 | 51.8 | Potassic | Rare/none | Rare K-alteration and moderate propylitic alteration. |
| 18HC04 | 51.8 | 52.1 | Potassic / silica | Moderate | Moderate K-alteration dominates + minor silification, no/rare plagioclase. |
| 18HC04 | 52.1 | 55.5 | Potassic | Rare/none | Rare K-alteration and moderate propylitic alteration. |
| 18HC04 | 55.5 | 57.35 | Potassic / silica | Weak to Moderate | Moderate K-alteration dominates + minor silification, no/rare plagioclase. |
| 18HC04 | 57.35 | 91.6 | Potassic | Rare/none | Rare K-alteration and moderate propylitic alteration. |
| 18HC04 | 91.6 | 93 | Chlorite/silica | Moderate / Weak | Weakly silicified, strongly chlorite-altered zone |
| 18HC04 | 93 | 99 | Potassic | Rare/none | Rare K-alteration (in patches) and moderate propylitic alteration. |
| 18HC05 | 1.56 | 13.90 | Potassic | Rare | Rare K-alteration with moderate chlorite alteration. Chlorite clots and saucertized plagioclase is common as well as magnetite. |
| 18HC05 | 13.9 | 14.60 | Potassic / silica | Weak to Moderate | Moderate patches of K-alteration in a weakly altered zone. Trace silification, rare plagioclase (only saucertized). |
| 18HC05 | 14.6 | 15.65 | Potassic | Strong | Strong K-alteration dominated and fine to coarse-grained sulphide clots, py stringer @ 15 - 15.1m. |
| 18HC05 | 15.65 | 24.34 | Potassic / silica | Weak to Moderate | Moderate K-alteration dominates + minor silification, no/rare plagioclase. |
| 18HC05 | 24.34 | 42.50 | Potassic | Weak | Weak spotty K-alteration with minor (up to 3%) sub-mm up to 10cm wide veins and/or strong alteration halos. Trace sulphides. From 36.02 - 42.5m, moderate alteration/veining is slightly more developed here. |
| 18HC05 | 42.5 | 91.20 | Potassic | Rare/none | Rare K-alteration (in patches) and moderate propylitic alteration. Only alteration is around trace veins (1 to 10mm). |
| 18HC06 | 0.40 | 12.60 | Potassic | Rare | Rare K-alteration with moderate chlorite alteration. Chlorite clots and saucertized plagioclase is common as well as magnetite. |
| 18HC06 | 12.60 | 20.80 | Potassic / silica | Moderate | Moderate K-alteration dominates + patches of strong alteration (12.6 - 13.03m) + minor silification, rare plagioclase. |
| 18HC06 | 20.80 | 49.00 | Potassic | Weak | Weak spotty and patchy K-alteration with minor (up to 1%) sub-mm veinlets. Trace sulphides. |
| 18HC06 | 49.00 | 52.35 | Potassic / silica | Moderate | Moderate K-alteration + minor silification + alteration halos around veining (@ 50.6-51m). |
| 18HC06 | 52.35 | 98.50 | Potassic | Rare | Rare K-alteration + spotty altered plagioclase. Moderate chlorite alteration throughout; chlorite clots and chloritized xenoliths are seen in the diabase. |
| 18HC07 | 2.80 | 10.73 | Potassic | Rare | Rare K-alteration with moderate chlorite alteration. Chlorite clots and saucertized plagioclase is common as well as magnetite. |
| 18HC07 | 10.73 | 24.24 | Potassic / silica | Moderate | Moderate K-alteration dominates + patches of strong alteration (11.45 - 11.55 & 19.3-24.24m) + minor silification, rare plagioclase. |
| 18HC07 | 24.24 | 31.00 | Potassic / Propylitic | Weak / Moderate | Weak spotty K-alteration with cm-scale zones moderate K-alteration + sulphides. Chlorite clots and saucertized plagioclase is still common. |
| 18HC07 | 31.00 | 32.40 | Potassic / silica | Moderate | Moderate K-alteration dominates + patches of strong alteration around minor veining. |
| 18HC07 | 32.40 | 63.00 | Potassic / Propylitic | Weak / Moderate | Weak spotty K-alteration with trace sulphides. From 48.2-48.4, there are cm-scale patches of mod alteration. |
| 18HC07 | 60.50 | 61.10 | | | |
| 18HC07 | 63.00 | 74.00 | Potassic | Rare | Rare K-alteration with moderate chlorite alteration. Chlorite clots and saucertized plagioclase is common as well as magnetite. |
| 18HC08 | 2.70 | 6.20 | Potassic | Rare | Rare K-alteration with moderate chlorite alteration. Chlorite clots and saucertized plagioclase is common as well as magnetite. |
| 18HC08 | 6.20 | 19.00 | Potassic / silica | Moderate | Moderate K-alteration dominates + patches of strong alteration (10-20%) + silification, rare plagioclase. |
| 18HC08 | 19.00 | 23.00 | Potassic | Intense | Intense K-alteration +/- silica with minor sulphides - vein. |
| 18HC08 | 23.00 | 59.00 | Potassic / Propylitic | Weak / Moderate | Weak spotty K-alteration + trace sulphides. Chlorite clots and saucertized plagioclase is partial. From 31.7 - 33.07, cm-scale patches of moderate alteration (in a halo and around veining). |
| 18HC09 | 4.04 | 7.30 | Potassic | Rare | Rare K-alteration with moderate chlorite alteration. Chlorite clots and saucertized plagioclase is common as well as magnetite. |
| 18HC09 | 7.30 | 12.25 | Potassic / silica | Weak to Moderate | Weak spotty K-alteration with patches of moderate alteration + minor sulphides. Chlorite clots and saucertized plagioclase is partially common. |

2018 Drill Core Alteration

| Hole ID | From | To | Alteration | Intensity | Description |
|---------|-------|-------|-----------------------|-------------------|--|
| 18HC09 | 12.25 | 20.40 | Potassic / silica | strong to Intense | Intense K-alteration + silica with major sulphides. From 17.6 - 20.4, a vein is intruding the rock. |
| 18HC09 | 20.40 | 20.40 | Potassic / silica | Weak to Moderate | Spotty K-alteration with patches of moderate alteration + major sulphides, mainly cpy from 22.6 - 23m. |
| 18HC09 | 20.40 | 27.50 | Potassic / Propylitic | Weak | Weak spotty K-alteration + trace sulphides. |
| 18HC09 | 27.50 | 39.90 | Potassic | Rare | Rare K-alteration with moderate chlorite alteration. True diabase texture |
| 18HC09 | 39.90 | 57.50 | Potassic / Propylitic | Weak | Weak spotty K-alteration + trace sulphides. |
| 18HC09 | 57.50 | 80 | Potassic | Rare | Rare K-alteration with moderate chlorite alteration. Chlorite clots is rarely seen but xenoliths in the diabase is seen throughout |
| 18HC10 | 1.00 | 7.66 | Potassic | Rare | Rare K-alteration with moderate chlorite alteration. Chlorite clots and sauccertized plagioclase is common as well as magnetite. |
| 18HC10 | 7.66 | 8.07 | Potassic / silica | Moderate | A patch of moderate K/silica alteration + trace sulphides. |
| 18HC10 | 8.07 | 10.9 | Potassic | Rare | Rare K-alteration with moderate chlorite alteration. Chlorite clots and sauccertized plagioclase is common as well as magnetite. |
| 18HC10 | 10.90 | 16.15 | Potassic / silica | Moderate | Moderate K/silica alteration dominates, rare plagioclase. |
| 18HC10 | 16.15 | 17.85 | Potassic / silica | Strong | Strong K-alteration + silica with major sulphides. From 16 - 16.15m, a vein is intruding the rock. |
| 18HC10 | 17.85 | 24.4 | Silica | Strong | Strong silica alteration with major sulphides (up to 10%) in this zone |
| 18HC10 | 24.40 | 37 | Potassic / silica | Weak to Moderate | Weakly altered rocks with patches of moderate K/silica alteration over cm to decimeters, moderate alteration halos also seen around veining. Moderate sulphides in the last 1.5m |
| 18HC10 | 37.00 | 45.5 | Potassic | Rare | Rare to weak K-alteration. |

2018 Drill Core Structures

| Hole ID | From | To | Structure | Intensity | Description |
|---------|-------|-------|-----------|-----------|--|
| 18HC01 | 14.7 | 15 | Fractures | Weak | Weakly fractured rocks |
| 18HC01 | 20.7 | 21.05 | Fractures | Moderate | Patches of moderate fracturing; fracture planes are oxidized. |
| 18HC01 | 26.9 | 27.1 | Fractures | Moderate | Broken pieces of rocks. |
| 18HC01 | 48 | 48.3 | Blocky | Moderate | Blocky rocks (90%). Low recovery |
| 18HC01 | 56 | 56.15 | Blocky | Moderate | Blocky rocks (90%). Low recovery |
| 18HC01 | 70.9 | 71 | Blocky | strong | Blocky rocks (100%). |
| 18HC01 | 72 | 73.4 | Blocky | strong | Blocky rocks (30%). |
| 18HC02 | 3 | 3.2 | Blocky | moderate | Blocky rocks (100%). |
| 18HC02 | 6.7 | 7 | Fractures | strong | Broken pieces of rocks, low recovery (39cm missing) |
| 18HC02 | 9 | 10.2 | Blocky | moderate | Blocky rocks (30%). |
| 18HC02 | 21.12 | 30.2 | Blocky | moderate | Blocky and fractured pieces of rocks (20%). |
| 18HC02 | 51.2 | 53.9 | Blocky | moderate | Blocky and fractured pieces of rocks (20%). |
| 18HC02 | 69.5 | 70.3 | Fracture | moderate | Fracture zone, blocky rock (30%) |
| 18HC02 | 74.8 | 77.45 | Fracture | strong | Fractured and blocky rocks (up to 50%). |
| 18HC02 | 80 | 83.35 | Blocky | Weak | Broken pieces of rocks (10%) |
| 18HC02 | 84 | 89.3 | Blocky | moderate | Broken pieces of rocks (50%) with possible fault gouge at 89m. |
| 18HC03 | 3 | 6 | Blocky | Weak | Blocky rocks (20%) |
| 18HC03 | 8 | 13 | Blocky | moderate | Blocky and fractured rocks (40%) |
| 18HC03 | 19.3 | 20.5 | Min plane | Weak | A weak plane of mineralization crosscutting the rocks @ roughly 50 degree. Same in min-alt zone @ 9.04 - 9.14m and 12.02 - 12.12m. |
| 18HC03 | 29 | 31.5 | Blocky | moderate | Blocky and fractured rocks (20%) |
| 18HC03 | 30.05 | 30.07 | Fault | Weak | Rubble with minor gouge. |
| 18HC03 | 33.77 | 33.9 | Blocky | moderate | Broken pieces of rocks (70%). |
| 18HC03 | 44.4 | 44.6 | Blocky | moderate | Broken pieces of rocks (100%). |
| 18HC03 | 51.5 | 51.54 | Blocky | moderate | Broken pieces of rocks (30%). |
| 18HC03 | 63.3 | 63.7 | Blocky | moderate | Broken pieces of rocks (30%). |
| 18HC03 | 67.5 | 68 | Blocky | moderate | Broken pieces of rocks (30%). |
| 18HC03 | 71 | 72.5 | Blocky | Weak | Broken pieces of rocks (10%). |
| 18HC03 | 44.2 | 44.4 | Min plane | Weak | 2 patches of K-alteration (5cm each) at roughly 50 degree to core axis |
| 18HC03 | 74.5 | 78 | Blocky | moderate | Broken pieces of rocks (30%). |
| 18HC03 | 86.3 | 90 | Blocky | moderate | Broken pieces of core (30%). |
| 18HC03 | 90 | 93 | fracture | strong | Rubble with minor gouge. |
| 18HC04 | 16.3 | 17.3 | Blocky | Strong | Blocky and fractured rocks (70%) |
| 18HC04 | 24 | 25.5 | Blocky | Weak | Blocky and fractured rocks (20%) |
| 18HC04 | 32.45 | 32.76 | Blocky | Moderate | Blocky and fractured rocks (60%) |
| 18HC04 | 41 | 41.06 | Blocky | Strong | Blocky and fractured rocks (80%) |
| 18HC04 | 55.6 | 57.1 | Fracture | Strong | Fractured rocks around cm-scale brecciated vein. |
| 18HC04 | 74.5 | 75 | Blocky | Weak | Blocky and fractured rocks (40%) |
| 18HC04 | 76.8 | 78 | Blocky | Moderate | Blocky and fractured rocks (50%) |
| 18HC04 | 82.8 | 84.6 | Blocky | Strong | Blocky and fractured rocks (70%) |
| 18HC04 | 90.45 | 91 | Blocky | Strong | Blocky and fractured rocks (70%) |
| 18HC04 | 96.3 | 97.45 | Fracture | Moderate | Fractured rocks with chlorite inclusions. |
| 18HC05 | 17.45 | 18 | fracture | Moderate | Fractured rocks along core axis |
| 18HC05 | 32.65 | 33 | fracture | Moderate | Fractured rocks along core axis |
| 18HC05 | 78.3 | 79.5 | breccia | Moderate | Blocky and fractured rocks (50%) |
| 18HC06 | 23.5 | 22.33 | Blocky | Strong | Blocky and fractured rocks (80%) |
| 18HC06 | 28.05 | 29.9 | fracture | Moderate | Fractured rocks @ 40 - 50 degree to core axis (50%) |
| 18HC06 | 31.4 | 36.5 | Blocky | Strong | Blocky and fractured rocks (80%) |
| 18HC06 | 74 | 75.3 | Blocky | Weak | Blocky and fractured rocks (<30%) |
| 18HC06 | 80.5 | 86.86 | Blocky | Strong | Blocky and fractured rocks (80%) with rubbly material (possible fault gouge) |
| 18HC07 | 49.5 | 50 | Blocky | Weak | Blocky and fractured rocks (20%) |
| 18HC07 | 52 | 53 | Blocky | strong | Blocky and fractured rocks (80%) |
| 18HC07 | 61.55 | 61.7 | Blocky | Weak | Blocky and fractured rocks (30%) |
| 18HC07 | 69.5 | 71.3 | Blocky | Weak | Blocky and fractured rocks (20%) |
| 18HC08 | 6.4 | 9.3 | Blocky | Moderate | Blocky and fractured rocks (50%). Little rubbly material at 7m, possibly fault! |
| 18HC08 | 19 | 20.9 | Blocky | Strong | Blocky and fractured rocks (70%) |
| 18HC08 | 30.9 | 32 | Blocky | Strong | Rubbly and fractured rocks (70%) |
| 18HC08 | 48.5 | 49.9 | Blocky | Weak | Blocky and fractured rocks (20%) |
| 18HC09 | 4.8 | 6.75 | fracture | moderate | Fractured rocks along core axis due to a shallow-angled vein |
| 18HC09 | 16.12 | 19.3 | Blocky | Strong | Blocky and fractured rocks (70%) |
| 18HC09 | 44.15 | 46.35 | fracture | moderate | Fractured rocks along core axis |
| 18HC09 | 47.94 | 48.05 | fault | moderate | Fault gouge and rubbly material in the fault. |
| 18HC09 | 77.4 | 78.75 | fracture | moderate | Fractured rocks along core axis, blocky intervals (80%). Very little rubble material |
| 18HC10 | 1.5 | 2 | Blocky | Moderate | Blocky and fractured rocks (50%) |
| 18HC10 | 27 | 30 | fracture | weak | Fractured and blocky rocks (20%) |
| 18HC10 | 32.6 | 33 | fracture | moderate | Fractured rocks with yellow - rusty staining on fracture planes |

2018 Drill Core Veining

| Hole ID | From | To | Vein Style | Composition | % of Rock | Angle to Core | Description |
|---------|-------|-------|------------|-------------------|-----------|---------------|--|
| 18HC01 | 22.65 | 22.8 | veinlets | K-Chl-Qtz | 10 | 40 | Minute (sub-mm) pink (with white portions) veinlets at 40 - 50 degree. Sulphides (up to 2%) within 1-2cm from the vein. |
| 18HC01 | 24.97 | 25.02 | vein | Qtz-Carb-Chl | 100 | 50 | A white with 2 spots of green (chlorite) and pink (K) in the vein. Vein margins are occupied by chlorite. No sulphides observed in the vein or its margins. |
| 18HC01 | 35.2 | 37.1 | veinlets | Epidote | 0.01 | 45 | Trace minute (sub-mm) epidote veinlets (3-5). |
| 18HC01 | 47.8 | 47.8 | Veinlet | Unkown | 100% | 50 | 2mm wide dull black-coloured vein range from 100 - 175k iron content in XRF. |
| 18HC01 | 49.45 | 49.45 | stringer | Sulphide | 100 | 40 | 1mm wide stringer of pyrite (fg; cubic and anhedral). |
| 18HC01 | 49.65 | 49.65 | Veinlet | Unkown | 100 | 50 | 2mm wide dull black-coloured vein range from 100 - 175k iron content in XRF. This veinlet is crosscut by a 1mm wide light pink veinlet @ 25 degree to the core axis. |
| 18HC01 | 66.1 | 66.27 | vein | K-Chl-Carb | 50% | 30 | 3 - 4cm wide pink - light green - rusty with spots of malachite staining. Vein composition is a combination of potassium, chlorite, carbonate, heavily oxidized spots beneath the vein and stockwork of light pink veinlets. Sulphides occur at the margins of the veins, particularly in the oxidized zone. XRF - high values of heavy minerals (Ti, Cr) and K, Ca. |
| 18HC01 | 68 | 68 | Veinlet | K-Malachite | 100 | 50 | A fracture-filled veinlet with green malachite staining. |
| 18HC01 | 75 | 77 | veinlets | K-Carb-Chl | 5% | Random | stockwork of sub-mm up to 1cm wide veinlets with minor sulphides (cpy and py @ 75.84m). |
| 18HC02 | 12.15 | 12.15 | veinlet | K-carb | 100 | 60 | 1mm wide K-vein with 3-5% sulphides. |
| 18HC02 | 23.47 | 23.48 | vein | Qtz - Chl - Carb | 100 | 50 | Barren, coarse-grained quartz, carbonate on margin and chlorite within vein. |
| 18HC02 | 27.12 | 27.15 | vein | Qtz-K-Carb-Chl | 90 | 50 | Barren, K-dominated vein with minor quartz, carbonate on margin and chlorite within vein. |
| 18HC02 | 29.4 | 29.43 | vein | K-carb-chl | 100 | 40 | A weathered, slightly oxidized (soft) K-vein with trace chlorite and carbonate. An individual clot of pyrite is seen in the vein. |
| 18HC02 | 66.52 | 66.52 | veinlet | K-carb | 100 | 40 | Barren 0.5cm wide vein with minor sulphides around the lower contact of the vein. |
| 18HC02 | 66.7 | 66.71 | vein | K-Carb-Chl | 100 | 45 | 1cm wide pink K and green chl. A weak alteration halo (over 3-4cm) is around the vein. |
| 18HC02 | 67.67 | 67.68 | vein | Qtz-K-Carb-Chl | 100 | 35 | Barren vein with quartz + carbonate on margin and chlorite + K within vein. No sign of sulphides. |
| 18HC02 | 84 | 84.2 | vein | K-Chl-Qtz | 30 | 10 | 1 cm wide pink vein with thin film of chlorite on margins. No sulphides seen on or around vein. The rock surrounding the vein (20-35cm above and below the vein) has undergone grain-size reduction and contain disseminated sulphides. |
| 18HC02 | 94.45 | 94.48 | vein | Qtz-Chl-K-carb | 100 | 40 | 3-4cm wide mineralized vein with up to 20% sulphides in the vein, mainly clotty py up to 1cm in diameter |
| 18HC03 | 17.8 | 18 | veinlets | K-Chl-carb | 10 | 45 | mm-scale pink - green veinlets parallel to each other. No sulphides in veinlets. |
| 18HC03 | 22.55 | 22.55 | veinlet | K-Chl | 100 | 50 | Mm-scale pink veinlet with chlorite on margins. Trace coarse-grained sulphides |
| 18HC03 | 24.32 | 24.35 | vein | K-carb | 100 | 50 | A 2-3cm wide K-carb vein with no sulphides in or around the vein. The host rock crosscut by the vein is brecciated. This vein crosscut 1mm wide pink veinlet. |
| 18HC03 | 28.9 | 29.22 | vein | K | 100 | irregular | A strongly K- altered zone in the core with a relatively sharp lower contact and a gradational upper contact - possibly a vein |
| 18HC03 | 34.1 | 34.14 | vein | Chlorite | 90 | 50 | A strongly chlorite-altered zone with a relatively sharp contacts, possibly a vein. Up to 5% sulphides. |
| 18HC03 | 54.78 | 54.82 | vein | K-Chl | 50 | 50 | A K-Chl, weathered / oxidized veinlets with rubbly texture. |
| 18HC03 | 89.3 | 89.45 | vein | K-carb-Chl-silica | 40 | 30 | Mineralized vein (up to 5% sulphides, fine to coarse grained pyrite) at margins of vein. |
| 18HC04 | 23.81 | 23.82 | veinlet | K-Carb | 50 | 30 | A 1-2mm wide pink - white veinlet, slightly oxidized and no sulphides. |
| 18HC04 | 29.45 | 30.05 | veinlets | K-carb | 5 | 30-45 | A series of 1-2mm wide, pink - white veinlets with trace chlorite at margins, no sulphides. |
| 18HC04 | 36.1 | 38.8 | veinlets | K-carb-Chl-silica | 5 | 40 | mm-scale veinlets crosscutting the rock @ 35 - 45 degree to core axis. No mineralization in or around the vein, only oxidized alteration halos around veining. |
| 18HC04 | 44.95 | 45.5 | veinlet | K-carb-malachite | 5 | 10 | mm-scale veinlet with malachite staining in the vein. No alteration halos but trace py and cpy in the vein. |
| 18HC04 | 56.6 | 56.95 | veins | K-Carb-Qtz-Chl | 30 | 40 | Cm-scale pink +/-white veins with up to 15% sulphides, cubic pyrite, at the margins of the vein (over 1cm wide mineralized halo). The red/maroon alteration halo is seen in the 2nd vein, where the host rock is brecciated over a 2cm wide. |
| 18HC04 | 63.36 | 63.46 | vein | K-carb-Chl-silica | 50 | 40 | Barren, sheeted carb/chl+qtz/K veinlets with no alteration halo around the vein. The entire width of the veinlets is 2cm wide. |
| 18HC04 | 83.7 | 83.7 | veinlet | K-carb | 100 | 40 | 1mm wide, maroon red with carb on margins. No sulphides in/around veining. |
| 18HC04 | 85.15 | 85.42 | vein | K-carb-Chl-silica | 60 | 30 | 3-4cm wide vein with up to 10% coarse-grained pyrite, cubic and fine-grained py in stringers. |
| 18HC05 | 28.17 | 28.33 | vein | K-carb-Chl-silica | 40 | 40 | 1-2cm wide veins with diss cubic sulphides at the margin of the vein. The lower contact of the vein with the country rocks is brecciated |
| 18HC05 | 28.82 | 30.9 | veinlets | K-carb | 2 | 40 | Trace sub-mm to mm-scale veinlets. No sulphides |
| 18HC05 | 30.9 | 31.16 | veins | K-carb-chl-silica | 90 | 50 | An 8cm wide pink vein with major sulphides and 2cm of brecciated country rocks with chlorite- carbonate infilling |
| 18HC05 | 34.4 | 34.46 | vein | K | 100 | 70 | A light red vein with trace sulphides |
| 18HC05 | 37.8 | 41.85 | veins | K-carb | 5 | 70 | A light red veins with trace sulphides |
| 18HC05 | 60.97 | 70.05 | vein | K-carb | 30 | 40 | Barren mm-scale vein with alteration halo. |
| 18HC05 | 70.27 | 70.3 | vein | K-Carb-Chl | 60 | 50 | Barren 1cm wide vein. |

2018 Drill Core Veining

| Hole ID | From | To | Vein Style | Composition | % of Rock | Angle to Core | Description |
|---------|-------|-------|------------|---------------------|-----------|---------------|---|
| 18HC05 | 61.65 | 61.8 | vein | K-Carb | 30 | 40 | Red alteration halo crosscut by mm-scale veinlet with trace alteration. |
| 18HC05 | 62.9 | 62.91 | vein | Carb-Chl | 100 | 40 | Brecciated carb-chl vein with trace sulphides. |
| 18HC05 | 66.08 | 66.08 | vein | Carb-Chl-K | 100 | 35 | Mm-scale vein with trace sulphides. |
| 18HC05 | 68.35 | 68.35 | veinlet | Carb-Chl | 100 | 40 | Mm-scale veinlet with trace sulphides. |
| 18HC05 | 69.7 | 69.7 | veinlet | K-Chl-Carb | 100 | 40 | 1cm wide vein with 1% cpy. |
| 18HC05 | 83.97 | 83.97 | vein | Chl-Carb | 100 | 55 | 1cm wide vein with up to 20% sulphides |
| 18HC05 | 84.45 | 84.45 | veinlet | Carb-Chl | 100 | | 3mm wide carb-chlorite vein with no sulphide |
| 18HC06 | 13.1 | 13.2 | veinlet | Carb | 10 | 30 | 3mm wide veinlet with brecciated small fragments of the country rocks in the veinlet. NO sulphides |
| 18HC06 | 42.8 | 43.3 | veinlet | K-Carb-(hem?) | 5 | 50 | 1-2mm wide, white, light pink, barren veinlets at irregular and 50 degree to core axis. |
| 18HC06 | 45.1 | 45.6 | veinlet | K-Carb | 5 | 50 | 1-2mm wide, white, light pink, barren veinlets at 50 degree to core axis. |
| 18HC06 | 50.6 | 51 | vein | K-Chl-Carb-Silica | 20 | 35 | 2-3cm wide vein with sulphides (up to 10-15%) at margins of the vein |
| 18HC06 | 52 | 69.1 | veinlets | K-Chl-Carb-Silica | 1 | 45 | Trace mm-scale veinlets, mostly barren, only @ 68.5m is mineralized with py and cpy (5mm; 10-15% sulphides). |
| 18HC06 | 73.4 | 73.75 | vein | K-Chl-Carb-Silica | 90 | 30 | a 7cm wide vein with up to 5% cpy (medium-grained) and trace medium-grained pyrite. |
| 18HC06 | 77.3 | 77.5 | vein | K-Chl-Silica | 10 | 20 | A 1cm wide vein with red K-vein at margins and light pink veinlet central to chlorite and carbonate. Both cpy (in vein) and py (at margins) are seen |
| 18HC06 | 86.05 | 86.3 | vein | Chl-Carb-K | 30 | 5 | A 1cm wide vein cpy blobs (up to 5mm in vein and marginal to vein) and disseminated py (at margins) |
| 18HC07 | 11.45 | 11.55 | vein | K-Carb | 20 | 50 | 2cm wide vein with up to 20% pyrite |
| 18HC07 | 31.4 | 32.2 | veinlets | K-Carb-Chl | 30 | 40 | Mm-scale veinlets with minor sulphides on the margins. |
| 18HC07 | 48 | 54 | veinlets | K-Carb | 1 | 40 | Trace sub mm-scale veinlets in weakly altered rocks |
| 18HC07 | 72.85 | 73.25 | veinlets | K-Carb | 0.025 | 40 | trace sub mm-scale light coloured veinlets. |
| 18HC08 | 9.05 | 9.17 | vein | K-Carb-silica | 80 | 50 | Light red vein with minor sulphides |
| 18HC08 | 9.4 | 9.48 | vein | K-silica | 30 | 40 | Light red vein with major sulphides (20% pyrite stringer) |
| 18HC08 | 16.7 | 17.9 | vein | K-silica | 50 | 40 | Light red, strong alteration, possibly vein-like alteration, sharp margins on the upper contact and gradational contact in the lower contact |
| 18HC08 | 19 | 23.27 | vein | K-silica | 90 | 50 | Massive, light red vein with minor black halos of the country rocks with up to 1cm rounded quartz eyes and minor sulphides |
| 18HC08 | 32.95 | 33.07 | vein | K-silica-carb-chl | 50 | 50 | 1cm wide vein with trace sulphides |
| 18HC08 | 45.82 | 45.87 | vein | Carb-Chl | 70 | 80 | Massive carbonate vein with rounded chlorite pods. No sulphides |
| 18HC09 | 4.7 | 6.1 | vein | Silica-carb-chl | 10 | 5 | sheeted vein along core axis with no sulphides and trace red spots of oxidation |
| 18HC09 | 9.2 | 10.35 | veinlets | Silica-carb-chl-K | 10 | 10 | sheeted veinlets along core axis, almost parallel to each other with no sulphides |
| 18HC09 | 17.6 | 20.4 | vein | K-silica-Chl | 70 | 10 | Vuggy, light red, weathered, vein with strong alteration halos around it. the vein is strongly mineralized with up to At the bottom of the vein, there seems another more defined, sharp-contacted vein intruding the vein at 40 degree with trace pink veinlets within this vein and xenoliths of the country rocks (V2 crosscut V1 - marked on the core - pls see core photo) |
| 18HC09 | 22.6 | 23 | vein | Carb-Chl-K | 20 | 80 | Mineralized (10% cpy) in Chl-Carb pods in what looks like an edge of a vein. |
| 18HC09 | 36.9 | 36.91 | veinlet | K-carb | 100 | 45 | 3mm wide , light coloured vein with a single cpy grain |
| 18HC09 | 47.7 | 48.3 | veinlets | K-carb | 10 | 45 | Trace, mm-scale veinlets, irregular orientation to core axis, light alteration halo in this interval, trace sulphides |
| 18HC09 | 55.46 | 55.7 | veinlet | Carb - K - Chl | 10 | 30 | mm-scale veinlet with trace sulphides on the margins of the vein. |
| 18HC09 | 74.15 | 74.6 | vein | Chl - Carb - Silica | 30 | 50 | 2cm wide sheeted vein, dark green + soft yellow material + carb + silica; no sulphides |
| 18HC09 | 78.25 | 78.84 | veinlet | Chl - Carb - Silica | 5 | 10 | 3mm wide veinlet, sheeted, similar composition to the last vein |
| 18HC10 | 16 | 16.15 | vein | K-silica | 80 | 45 | A 15cm wide, light to dark red, vuggy, barren vein; 2 sets are seen, a light red is intruded by a deep red vein. Sulphides only in the country rock |
| 18HC10 | 25.65 | 25.82 | vein | Carb-K-silica-Chl | 50 | 40 | 0.5cm sharp contact vein with 2cm wide, strong alteration halo - no sign of sulphides. |
| 18HC10 | 29.82 | 33.64 | veinlets | K-carb-silica | 2 | 40 | Minor mm up to 1cm wide veinlets with trace mineralization at margins of veins - no sulphides in the vein, except for the one @ 31.66m |
| 18HC10 | 31.66 | 31.66 | vein | Carb-K | 100 | 80 | a 1cm wide vein, pink-coloured with a cm-wide clot of cpy. |
| 18HC10 | 39.95 | 45.2 | veinlets | Carb | 2 | 50 | Minor mm scale white - light pink carb veinlets (high % of Ca from XRF analysis) |

2018 Drill Core Mineralization

| Hole ID | From | To | Mineral | Mineral I % | Mineral I Occurrence | Mineral | Mineral II % | Mineral II Occurrence | Mineral | Mineral III % | Mineral III Occurrence | Description |
|---------|-------|-------|---------|-------------|----------------------|---------|--------------|-----------------------|---------|---------------|------------------------|---|
| 18HC01 | 4.85 | 5.12 | Py | 5 | Stringers | Cpy | 5 | Stringers | Pyr | 5 | Stringers | Fine-grained py, cpy and pyr in mm-scale stringers hosted in metasedimentary boulder at the start of the hole. |
| 18HC01 | 5.12 | 12.75 | Py | 0.2 | Disseminated | Co-As | 0.1 | disseminated | Cpy | | | Ultrafine to medium grained blebs of pyrite seen in chloritized zones and around saucertized plagioclase and K-zones. 1 small grain of cpy is seen. |
| 18HC01 | 12.75 | 14 | Py | 0.5 | Disseminated | Co-As | 0.1 | disseminated | | | | Ultrafine to medium grained blebs of pyrite and dark gery sulphides hosted in a weak K-altered interval. |
| 18HC01 | 14 | 20.7 | Py | 0.01 | Disseminated | Co-As | 0.1 | disseminated | | | | Trace very fine-grained pyrite |
| 18HC01 | 20.7 | 29.8 | Py | 0.5 | Disseminated | Co-As | 0.1 | disseminated | Cpy | 0.01 | | Minor disseminated sulphides throughout, mainly in K-altered, fractured, weakly silicified domains from 22.7 -24.10m --> @ this interval, sulphides (up to 1% py) are concentrated in weakly - moderately silicified, K-altered zones. |
| 18HC01 | 29.8 | 35.2 | Py | 0.01 | Disseminated | | | | | | | Trace pyrite throughout. |
| 18HC01 | 35.2 | 37.1 | Py | 0.5 | Disseminated | | | | | | | Minor sulphides in weakly altered k-altered rocks. |
| 18HC01 | 37.1 | 51 | Py | 0.01 | Disseminated | Py | 0.01 | Stringer | Cpy | 0.01 | | Trace disseminated py and an individual stringer at 49.45m. |
| 18HC01 | 51 | 52.8 | Py | 0.5 | Disseminated | Cpy | 0.01 | disseminated | | | | Fine-grained py and cpy occur in clots and individual blebs. |
| 18HC01 | 52.8 | 63.85 | Py | 0.01 | Disseminated | | | | | | | Fine-grained py occur as individual blebs. |
| 18HC01 | 63.85 | 64.1 | py | 0.5 | Disseminated | | | | | | | Fine-grained py occur as clots and individual blebs. |
| 18HC01 | 64.1 | 66.1 | py | 0.01 | Disseminated | | | | | | | |
| 18HC01 | 66.1 | 68.33 | Py | 0.5 | Disseminated | Cpy | 0.01 | disseminated | | | | Fine-grained py and cpy occur in clots and individual blebs. |
| 18HC01 | 68.33 | 75.8 | py | 0.01 | Disseminated | | | | | | | |
| 18HC01 | 75.8 | 77 | | 0.5 | Disseminated | Cpy | 0.01 | disseminated | | | | Fine-grained py and cpy occur in clots and individual blebs. A large 1cm wide cluster of py and cpy occur in a 1cm wide pink vein @ 75.85m |
| 18HC01 | 77 | 85.7 | | 0.01 | Disseminated | | | | | | | |
| 18HC02 | 3 | 15.15 | py | 0.01 | disseminated | Cpy | 0.01 | disseminated | | | | Trace pyrite throughout, except for 2 zones @ 3..47 - 3.53m and 5.6 - 5.7m contain up to 10% sulphides (py and Cpy) |
| 18HC02 | 15.15 | 22.75 | py | 0.05 | disseminated | Cpy | 0.1 | disseminated | | | | Cm-scale zones of moderate mineralization occur @ 15.15 - 15.25m. 17.55 - 17.77; 17.92 - 18.03, 19.13 - 19.18m; these zones have at least 0.5 and a max of 3% sulphides; ultrafine-grained py to cubic mg, and fine grained cpy. |
| 18HC02 | 22.75 | 28.2 | py | 0.01 | disseminated | | | | | | | Trace pyrite throughout, however the zone is moderately altered and could contain micro-sulphides that can not be seen in naked eyes or hand lens. |
| 18HC02 | 28.2 | 30.2 | py | 0.2 | disseminated | Cpy | 0.01 | clot | | | | Trace pyrite throughout with an individual 1cm wide clot of cpy @ 28.28m |
| 18HC02 | 35.85 | 35.95 | py | 0.5 | disseminated | Cpy | 0.1 | disseminated | | | | Fine to medium-grained py and cpy in moderately altered K-zone + chlorite + altered plagioclase |
| 18HC02 | 35.95 | 48.95 | py | 0.01 | disseminated | | | | | | | Rare pyrite |
| 18HC02 | 48.95 | 53.7 | py | 0.5 | disseminated | Cpy | 0.01 | disseminated | | | | Fine to medium-grained diss and clotty py + diss cpy in a an altered K-zone |
| 18HC02 | 53.7 | 66.2 | py | 0.01 | disseminated | | | | | | | Trace pyrite |
| 18HC02 | 66.2 | 68.8 | py | 0.2 | disseminated | | | | | | | Fine to medium-grained pyrite in around minor veining and up to 1% sulphides from 68.55 - 68.90m |
| 18HC02 | 87.07 | 87.2 | py | 2 | disseminated | | | | | | | Fine to medium-grained py in moderately silicified zone |
| 18HC02 | 68.8 | 89.45 | py | 0.01 | disseminated | | | | | | | Trace pyrite |
| 18HC02 | 89.45 | 91.45 | py | 0.1 | disseminated | | | | | | | Disseminated py throughout and few clotty py within this interval |
| 18HC02 | 91.45 | 94.45 | py | 0.01 | disseminated | | | | | | | Trace pyrite |
| 18HC02 | 94.45 | 94.48 | py | 10 | disseminated | | | | | | | Up to 10% fine-grained clotty py in a quartz - chlorite - k - carbonate vein. |
| 18HC02 | 94.48 | 105 | py | EOH | | | | | | | | Trace |
| 18HC03 | 3 | 9.05 | py | 0.01 | disseminated | | | | | | | Rare sulphides |
| 18HC03 | 9.05 | 9.15 | py | 2 | disseminated | | | | | | | Fine grained pyrite in weakly silicified zone with potassic altertaion that crosscut the core @ 40-50 degree to CA. Pyrite mainly seen in chlorite and magnetite pods. |
| 18HC03 | 12.02 | 12.5 | py | 1 | disseminated | | | | | | | Fine grained pyrite in weakly silicified zone with potassic altertaion. Pyrite is both diss and clotty |
| 18HC03 | 12.5 | 19.5 | py | 0.05 | disseminated | | | | | | | Fine-grained pyrite (diss and clotty) throughout the interval |
| 18HC03 | 19.5 | 20.5 | py | 3 | disseminated | cpy | 0.01 | disseminated | | | | Fine to medium grained pyrite (diss and clots) and fine-grained cpy |
| 18HC03 | 20.5 | 27.5 | py | 0.01 | disseminated | | | | | | | Fine-grained disseminated pyrite |
| 18HC03 | 27.5 | 45.2 | py | 0.5 | disseminated | cpy | 0.01 | disseminated | | | | Fine to medium grained pyrite (diss and clots) with fine-grained cpy. Up to 3% sulphides @ 27.53-27.6, 34.05-34.20, 38.85-39, 39.45-39.65m. Some patches within this interval contain lesser sulphide contents than others. |
| 18HC03 | 45.2 | 89.3 | py | 0.01 | disseminated | | | | | | | Rare sulphides |
| 18HC03 | 89.3 | 89.45 | py | 3 | disseminated | py | 3 | stringers | | | | Mm-scale stringers of fine-grained pyrite and diss, coarse-grained cubic pyrite @ margins of vein |
| 18HC03 | 89.45 | 93.5 | py | 0.01 | disseminated | | | | | | | Rare sulphides |
| 18HC03 | 93.5 | 95.5 | py | 2 | disseminated | py | 0.2 | stringers | cpy | 0.5 | diss | Diss and clotty py + diss cpy in a moderately chloritized and silica-altered interval. Very heavy core |
| 18HC03 | 95.5 | 105 | py | 0.01 | disseminated | EOH | | | | | | Rare sulphides. |
| 18HC04 | 7.1 | 8 | py | 0.5 | disseminated | | | | | | | Fine grained sulphides in chloritic and magnetite pods. |
| 18HC04 | 12.5 | 13.11 | py | 0.2 | disseminated | | | | | | | Fine to medium-grained disseminated and clotty pyrite |
| 18HC04 | 13.11 | 13.5 | py | 3 | disseminated | | | | | | | Fine to medium-grained disseminated and clotty pyrite |

2018 Drill Core Mineralization

| Hole ID | From | To | Mineral | Mineral I % | Mineral I Occurrence | Mineral | Mineral II % | Mineral II Occurrence | Mineral | Mineral III % | Mineral III Occurrence | Description |
|---------|-------|-------|---------|-------------|----------------------|---------|--------------|-----------------------|---------|---------------|------------------------|---|
| 18HC04 | 16.35 | 16.75 | py | 3 | disseminated | cpy | 0.01 | disseminated | | | | Fine to medium-grained disseminated and clotty pyrite + 2 grained of cpy |
| 18HC04 | 17.42 | 17.5 | py | 5 | disseminated | | | | | | | Fine to medium-grained disseminated and clotty pyrite |
| 18HC04 | 17.5 | 22.4 | py | 0.2 | disseminated | | | | | | | Fine-grained, disseminated pyrite throughout in both K-rich and chlorite-altered intervals |
| 18HC04 | 40 | 44.6 | py | 0.2 | disseminated | | | | | | | Fine-grained, disseminated and clotty pyrite |
| 18HC04 | 51.8 | 52.05 | py | 3 | clots | | | | | | | Fine-grained clotted pyrite (up to 1cm wide) |
| 18HC04 | 54.15 | 57.9 | py | 1 | disseminated | cpy | 0.01 | disseminated | | | | Fine to medium-grained pyrite around K-Carb-Chl-Qtz veinlets in strongly K-rich + silica (reddish) halo |
| 18HC04 | 63.05 | 64.8 | py | 0.2 | disseminated | | | | | | | Fine-grained, disseminated and clotty pyrite |
| 18HC04 | 64.8 | 99 | py | 0.01 | disseminated | | | | | | | Rare sulphides. |
| 18HC05 | 85.15 | 85.42 | py | 5 | disseminated | py | 1 | clots | | | | Fine-grained py in stringers and cubic, coarse-grained py in a 4cm wide vein. |
| 18HC05 | 14.6 | 16.65 | py | 3 | disseminated | py | 2 | stringer | cpy | 0.2 | disseminated | Fine to medium-grained disseminated + clotty pyrite and @ a stringer @ 15 - 15.1m. Trace fine-grained cpy |
| 18HC05 | 16.65 | 24.34 | py | 0.2 | disseminated | | | | | | | Fine to medium-grained disseminated and clotty pyrite |
| 18HC05 | 26.5 | 28.33 | py | 0.1 | disseminated | | | | | | | Fine to medium-grained disseminated pyrite |
| 18HC05 | 30.9 | 31.16 | py | 0.01 | disseminated | cpy | 2 | disseminated | | | | Trace fine-grained disseminated py and up to 2%, medium-grained, disseminated cpy in light red vein. |
| 18HC05 | 34.4 | 34.46 | py | 0.5 | disseminated | | | | | | | Fine to medium-grained disseminated pyrite in a vein |
| 18HC05 | 37 | 42.50 | py | 0.5 | disseminated | cpy | 0.2 | disseminated | | | | Fine to medium-grained disseminated pyrite and cpy in mod-strongly altered zones |
| 18HC05 | 83.97 | 83.98 | py | 10 | stringer | | | | | | | Fine to medium-grained pyrite in a 1cm wide vein. |
| 18HC06 | 0.4 | 12.30 | py | 0.01 | disseminated | | | | | | | Trace fine-grained pyrite throughout |
| 18HC06 | 12.3 | 20.90 | py | 1 | disseminated | cpy | 0.1 | disseminated | | | | Fine to medium-grained disseminated pyrite in chloritic domains and trace disseminated cpy in strongly altered zones. |
| 18HC06 | 20.9 | 49.00 | py | 0.01 | disseminated | | | | | | | Trace fine-grained pyrite |
| 18HC06 | 49.00 | 50.60 | py | 0.5 | disseminated | | | | | | | Trace up to 0.5% fine to medium-grained py throughout this interval |
| 18HC06 | 50.60 | 51.00 | py | 3 | disseminated | cpy | 7 | disseminated | | | | Fine to medium-grained disseminated pyrite and cpy on the margins of a 2-3cm wide vein. The mineralized halo extend over 10cm on both ends of the vein. |
| 18HC06 | 68.50 | 68.51 | py | 10 | stringer | | | | | | | Fine to medium-grained pyrite clots / stringer in 0.5cm wide Carb-Chl-K-silica vein |
| 18HC06 | 73.40 | 73.75 | cpy | 5 | disseminated | | | | | | | Fine to medium-grained disseminated and clotty cpy in a 7cm wide vein |
| 18HC06 | 77.30 | 77.50 | py | 2 | disseminated | cpy | 0.5 | disseminated | | | | Fine to medium-grained disseminated and clotty py and cpy in a cm wide vein |
| 18HC06 | 86.05 | 86.30 | py | 2 | disseminated | cpy | 2 | disseminated | | | | Fine to medium-grained disseminated and clotty py and cpy in a cm wide vein |
| 18HC07 | 4.17 | 4.37 | py | 0.5 | disseminated | | | | | | | Fine to medium-grained disseminated and clotty py in moderately altered zone |
| 18HC07 | 10.73 | 11.45 | py | 0.2 | disseminated | | | | | | | Fine to medium-grained disseminated and clotty py in moderately altered zone |
| 18HC07 | 11.45 | 11.55 | py | 20 | stringer | | | | | | | Pyrite stringers in a chlorite - K vein. |
| 18HC07 | 11.55 | 24.24 | py | 0.2 | disseminated | | | | | | | Fine to medium-grained disseminated and clotty py in moderately altered zone |
| 18HC07 | 29.00 | 32.40 | py | 0.5 | disseminated | | | | | | | Fine to medium-grained disseminated and clotty py in a weakly altered zone |
| 18HC07 | 32.40 | 74.00 | py | 0.01 | disseminated | | | | | | | Rare medium-grained pyrite. |
| 18HC08 | 9.52 | 9.48 | py | 5 | disseminated | py | 5 | clotty | | | | Fine to medium-grained disseminated and clotty py in a cm wide vein |
| 18HC08 | 17.50 | 16.70 | py | 0.2 | disseminated | | | | | | | Fine to medium-grained disseminated and clotty py in moderately altered, light red patches |
| 18HC08 | 16.70 | 19.00 | py | 1 | disseminated | py | 0.5 | clotty | | | | Fine to medium-grained disseminated and clotty py in moderately altered, light red patches |
| 18HC08 | 19.00 | 23.00 | py | 0.2 | disseminated | | | | | | | Fine to medium-grained disseminated and clotty py in a light red vein |
| 18HC09 | 4.04 | 9.20 | py | 0.01 | disseminated | | | | | | | Trace pyrite. |
| 18HC09 | 9.20 | 17.60 | py | 1 | disseminated | cpy | 0.01 | disseminated | | | | Fine to medium-grained disseminated and clotty py + trace cpy in altered rocks |
| 18HC09 | 17.60 | 18.50 | py | 2 | disseminated | cpy | 10 | disseminated | | | | Fine to medium-grained disseminated and clotty cpy + up to 2% py in a vein |
| 18HC09 | 18.50 | 27.50 | py | 0.2 | disseminated | cpy | 0.2 | disseminated | | | | Fine to medium-grained disseminated + clotty cpy and py (up to 3% from 22.6 - 23m). |
| 18HC09 | 27.50 | 80.00 | py | 0.01 | disseminated | cpy | 0.01 | disseminated | | | | Fine to medium-grained disseminated py and cpy, mainly close to narrow veins and veinlets. |
| 18HC10 | 1.00 | 7.66 | py | 0.01 | disseminated | | | | | | | Rare sulphides |
| 18HC10 | 7.66 | 8.05 | py | 0.5 | disseminated | cpy | 0.05 | disseminated | | | | Fine to medium-grained disseminated py and cpy in a moderate-altered patch |
| 18HC10 | 10.90 | 16.37 | py | 0.5 | disseminated | cpy | 0.1 | disseminated | | | | Fine to medium-grained disseminated and clotty py and cpy. |
| 18HC10 | 16.37 | 16.61 | py | 5 | disseminated | cpy | 1 | disseminated | | | | Fine to medium-grained disseminated and clotty py and cpy in a strongly altered zone |
| 18HC10 | 16.61 | 17.85 | py | 0.2 | disseminated | cpy | 0.01 | disseminated | | | | Fine to medium-grained disseminated and clotty py and cpy. |
| 18HC10 | 17.85 | 24.40 | py | 3 | disseminated | cpy | 5 | disseminated | | | | Fine to medium-grained disseminated and clotty py and cpy in strongly silicified zone. The zone hosts 1-3% sulphides throughout but dm-scale sections contain more than 5% cpy and up to 3% py. |
| 18HC10 | 24.40 | 35.60 | py | 0.5 | disseminated | cpy | 0.01 | clot | | | | Fine to medium-grained disseminated py; @ 31.66m, a pink vein (Eritherite-coloured) contain a 1cm wide cpy clot |
| 18HC10 | 35.27 | 35.35 | py | 10 | stringer | | | | | | | Ultra-fine to medium-grained pyrite in a cm-wide stringer @ 45 degree to the core axis |

Appendix 3. Analytical Results and Laboratory Certificates

2017 Soil Sample Results

2018 Soil Sample Results

2018 Rock Sample Results

2018 Diamond Drill Results

2017 Soil Sample Results

| Sample ID | Field ID | Ag ppm | | | As ppm | | | Ba ppm | Bi ppm | | | Ca % | Cd ppm | Ce ppm | | | Co ppm | | | Cr ppm | | | Cs ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | Hf ppm | K % | La ppm | Li ppm | Mg % | Mn ppm | Mo ppm | Na ppm | Ni ppm | P ppm | Pb ppm | Rb ppm | Re ppm | S % | Sb ppm | Sc ppm | Se ppm | Sr ppm | Ta ppm | Te ppm | Th ppm | Ti % | Tl ppm | U ppm | V ppm | W ppm | Zn ppm | Zr ppm | Certificate |
|-----------|----------|--------|------|-------|--------|------|------|--------|--------|-------|-------|--------|--------|--------|-------|-------|--------|-------|-------|--------|-------|-------|--------|--------|------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|------|--------|--------|--------|--------|--------|--------|--------|----------|----------|----------|-------|-------|--------|--------|-------------|
| | | Ag | As | Ba | Bi | Ca | Cd | | Ce | Co | Cr | | | Cs | Cu | Fe | Ga | Hg | Hf | K | La | Li | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8898900 | E8 | 0.18 | 7.28 | 3.80 | 590 | 1.65 | 0.12 | 1.76 | 0.04 | 53.60 | 17.40 | 81.90 | 2.41 | 22.90 | 3.09 | 22.60 | -0.05 | 2.60 | 0.027 | 2.13 | 23.00 | 24.10 | 1.28 | 588 | 0.41 | 2.21 | 7.00 | 41.00 | 4.80 | 523 | 13.60 | 87.70 | -0.05 | 0.023 | 0.17 | 14.70 | 0.90 | 1.20 | 320 | 0.54 | 0.04 | 7.60 | 0.36 | 0.37 | 1.15 | 10.00 | 4.0 | 12.50 | 43.30 | 130 | 17782851 | | | | | |
| 8898901 | E6 | 0.23 | 6.88 | 11.60 | 641 | 1.31 | 0.11 | 1.73 | 0.08 | 31.80 | 48.20 | 2.39 | 17.25 | 21.60 | 1.27 | 2.95 | 21.10 | -0.05 | 2.70 | 0.025 | 1.97 | 14.00 | 28.10 | 1.13 | 474 | 0.44 | 2.21 | 6.90 | 38.90 | 212 | 13.60 | 81.30 | -0.002 | 0.013 | 0.17 | 14.70 | 0.90 | 1.20 | 320 | 0.54 | 0.04 | 7.60 | 0.36 | 0.37 | 1.15 | 10.00 | 4.0 | 12.50 | 43.30 | 130 | 17782851 | | | | | |
| 8898902 | E7 | 0.23 | 7.60 | 3.90 | 610 | 1.35 | 0.15 | 1.49 | 0.06 | 31.00 | 16.90 | 92.40 | 2.17 | 24.80 | 2.92 | 14.90 | 0.40 | 2.40 | 0.023 | 2.20 | 14.10 | 23.50 | 1.22 | 459 | 0.29 | 2.11 | 7.00 | 50.50 | 275 | 12.30 | 90.50 | -0.002 | 0.013 | 0.12 | 11.40 | 0.90 | 1.10 | 286 | 0.53 | 0.11 | 4.50 | 0.33 | 0.33 | 0.77 | 86.00 | 5.00 | 8.00 | 45.80 | 80 | 17782851 | | | | | | |
| 8898903 | E8 | 0.27 | 6.68 | 3.60 | 608 | 1.14 | 0.11 | 1.42 | 0.06 | 29.10 | 12.30 | 67.50 | 2.37 | 7.80 | 2.37 | 20.70 | -0.05 | 2.90 | 0.023 | 2.25 | 14.10 | 21.50 | 1.24 | 359 | 0.33 | 1.94 | 7.10 | 33.20 | 189 | 12.20 | 92.90 | -0.002 | 0.013 | 0.12 | 11.40 | 0.70 | 1.10 | 281 | 0.55 | 0.03 | 3.80 | 0.35 | 0.38 | 0.85 | 80.10 | 0.50 | 8.00 | 37.50 | 100 | 17782851 | | | | | | |
| 8898904 | E9 | 0.29 | 6.60 | 1.20 | 494 | 1.32 | 0.14 | 1.42 | 0.06 | 23.80 | 11.30 | 66.30 | 1.77 | 6.50 | 3.04 | 22.00 | -0.05 | 2.60 | 0.025 | 1.60 | 11.50 | 19.80 | 0.69 | 312 | 0.61 | 1.96 | 1.90 | 27.60 | 257 | 11.70 | 67.10 | -0.002 | 0.014 | 0.11 | 10.80 | 0.90 | 1.20 | 296 | 0.47 | 0.04 | 3.60 | 0.33 | 0.28 | 0.78 | 100.00 | 4.0 | 6.60 | 27.00 | 100 | 17782851 | | | | | | |
| 8898905 | E10 | 0.56 | 7.05 | 6.10 | 504 | 1.37 | 0.14 | 1.41 | 0.10 | 17.20 | 14.30 | 85.30 | 1.86 | 7.10 | 4.11 | 20.00 | 0.58 | 1.90 | 0.028 | 1.59 | 8.00 | 30.40 | 0.82 | 356 | 0.75 | 1.91 | 5.70 | 39.00 | 532 | 10.60 | 65.10 | -0.002 | 0.015 | 0.17 | 10.70 | 1.20 | 1.00 | 292 | 0.42 | 0.05 | 2.70 | 0.38 | 0.24 | 0.68 | 100.00 | 0.50 | 7.00 | 45.90 | 70 | 17782851 | | | | | | |
| 8898906 | E11 | 0.27 | 7.48 | 3.00 | 538 | 1.37 | 0.15 | 1.57 | 0.07 | 36.10 | 15.50 | 104.00 | 1.48 | 19.90 | 4.51 | 16.40 | 0.67 | 3.80 | 0.023 | 1.72 | 14.80 | 23.20 | 0.91 | 574 | 0.39 | 1.91 | 6.10 | 42.40 | 572 | 10.10 | 96.00 | -0.002 | 0.013 | 0.23 | 11.30 | 1.10 | 1.00 | 302 | 0.59 | 0.09 | 8.00 | 0.43 | 0.25 | 0.90 | 104.00 | 0.40 | 8.90 | 43.30 | 130 | 17782851 | | | | | | |
| 8898907 | E12 | 0.31 | 6.47 | 4.20 | 574 | 1.00 | 0.13 | 1.49 | 0.10 | 19.60 | 88.20 | 2.60 | 11.90 | 14.90 | 4.44 | 17.50 | 0.40 | 0.43 | 0.024 | 1.11 | 10.50 | 12.00 | 0.95 | 639 | 0.21 | 2.01 | 6.20 | 37.90 | 679 | 11.90 | 61.20 | -0.002 | 0.015 | 0.25 | 11.90 | 1.10 | 1.00 | 313 | 0.46 | 0.07 | 3.10 | 0.40 | 0.25 | 0.75 | 98.90 | 0.60 | 8.40 | 91.00 | 120 | 17782851 | | | | | | |
| 8898908 | E13 | 0.30 | 8.02 | 4.50 | 564 | 1.22 | 0.12 | 1.69 | 0.06 | 27.10 | 18.90 | 88.30 | 1.85 | 14.80 | 4.65 | 18.60 | 0.50 | 2.30 | 0.028 | 1.20 | 13.00 | 32.00 | 1.10 | 536 | 0.44 | 1.99 | 5.50 | 42.70 | 726 | 9.80 | 62.00 | -0.002 | 0.014 | 0.21 | 11.30 | 1.10 | 1.00 | 314 | 0.46 | 0.07 | 5.40 | 0.49 | 0.23 | 0.76 | 110.00 | 0.40 | 8.30 | 63.60 | 93 | 17782851 | | | | | | |
| 8898909 | E14 | 0.29 | 8.45 | 4.70 | 580 | 1.36 | 0.15 | 1.65 | 0.10 | 27.70 | 14.90 | 111.00 | 1.87 | 24.90 | 4.80 | 17.30 | 0.63 | 2.20 | 0.028 | 1.95 | 12.30 | 36.70 | 1.17 | 621 | 0.37 | 2.04 | 5.10 | 55.90 | 2570 | 10.20 | 61.50 | -0.002 | 0.015 | 0.26 | 10.50 | 1.00 | 0.90 | 336 | 0.42 | 0.07 | 4.70 | 0.38 | 0.24 | 0.71 | 90.00 | 0.40 | 7.60 | 75.00 | 70 | 17782851 | | | | | | |
| 8898910 | E15 | 0.40 | 8.34 | 8.90 | 576 | 1.40 | 0.20 | 1.28 | 0.11 | 27.00 | 19.90 | 94.50 | 2.37 | 57.30 | 5.06 | 17.40 | 0.48 | 2.20 | 0.030 | 1.93 | 11.90 | 37.80 | 1.14 | 641 | 0.66 | 1.48 | 6.80 | 59.40 | 3440 | 11.50 | 55.20 | -0.002 | 0.017 | 0.22 | 11.10 | 1.50 | 0.90 | 242 | 0.48 | 0.11 | 4.00 | 0.44 | 0.22 | 0.93 | 99.40 | 1.00 | 8.30 | 122.00 | 85 | 17782851 | | | | | | |
| 8898911 | E16 | 0.33 | 7.74 | 3.60 | 559 | 1.32 | 0.16 | 1.67 | 0.07 | 35.20 | 12.40 | 77.60 | 1.67 | 14.50 | 2.83 | 17.50 | 0.20 | 3.40 | 0.021 | 1.97 | 15.90 | 19.60 | 0.86 | 404 | 0.42 | 2.13 | 6.10 | 36.10 | 360 | 10.90 | 63.40 | -0.002 | 0.014 | 0.12 | 11.40 | 1.10 | 0.90 | 323 | 0.49 | 0.04 | 5.20 | 0.36 | 0.26 | 0.87 | 78.00 | 0.40 | 8.90 | 52.60 | 137 | 17782851 | | | | | | |
| 8898912 | E17 | 0.44 | 7.09 | 7.60 | 558 | 1.19 | 0.17 | 1.43 | 0.10 | 28.90 | 91.50 | 2.26 | 12.10 | 32.70 | 19.40 | -0.05 | 3.20 | 0.028 | 1.99 | 14.10 | 26.80 | 0.72 | 570 | 0.56 | 1.82 | 7.10 | 33.50 | 797 | 11.90 | 68.80 | -0.002 | 0.014 | 0.24 | 10.10 | 1.30 | 1.50 | 277 | 0.54 | 0.04 | 4.30 | 0.43 | 0.26 | 0.81 | 91.90 | 0.50 | 8.70 | 124.00 | 128 | 17782851 | | | | | | | |
| 8898913 | E18 | 0.31 | 7.13 | 3.80 | 514 | 1.10 | 0.13 | 1.51 | 0.09 | 25.30 | 9.90 | 72.40 | 1.70 | 10.20 | 28.10 | 15.80 | 0.14 | 3.00 | 0.020 | 1.10 | 12.40 | 28.80 | 0.77 | 353 | 0.42 | 1.73 | 5.80 | 39.20 | 690 | 15.20 | 65.20 | -0.002 | 0.014 | 0.12 | 11.60 | 0.90 | 1.00 | 263 | 0.46 | 0.03 | 3.60 | 0.36 | 0.25 | 0.81 | 68.70 | 0.40 | 5.20 | 112.00 | 118 | 17782851 | | | | | | |
| 8898914 | E19 | 0.34 | 8.41 | 2.90 | 596 | 1.32 | 0.11 | 1.61 | 0.08 | 35.80 | 12.60 | 85.20 | 2.41 | 14.70 | 3.55 | 16.90 | 0.17 | 3.30 | 0.031 | 2.13 | 16.50 | 25.60 | 0.98 | 453 | 0.53 | 2.11 | 10.50 | 42.60 | 910 | 12.00 | 77.10 | -0.002 | 0.015 | 0.19 | 9.40 | 0.70 | 1.90 | 372 | 0.71 | 0.03 | 6.80 | 0.39 | 0.26 | 1.19 | 90.50 | 0.40 | 13.90 | 96.70 | 193 | 17782851 | | | | | | |
| 8898915 | E20 | 0.33 | 8.08 | 3.00 | 579 | 1.51 | 0.10 | 1.53 | 0.10 | 37.80 | 14.80 | 88.20 | 1.78 | 27.40 | 3.33 | 17.40 | 0.47 | 2.70 | 0.025 | 1.96 | 15.40 | 27.00 | 0.97 | 415 | 0.53 | 2.19 | 10.60 | 41.40 | 730 | 12.20 | 63.10 | -0.002 | 0.014 | 0.10 | 11.40 | 1.30 | 1.00 | 303 | 0.44 | 0.04 | 6.20 | 0.36 | 0.26 | 0.89 | 83.80 | 0.50 | 9.00 | 45.50 | 123 | 17782851 | | | | | | |
| 8898916 | E21 | 0.27 | 7.70 | 2.30 | 492 | 1.30 | 0.09 | 1.71 | 0.07 | 25.20 | 13.30 | 88.30 | 1.48 | 5.80 | 3.55 | 18.60 | -0.05 | 3.90 | 0.023 | 1.60 | 11.40 | 17.10 | 0.82 | 543 | 0.43 | 2.04 | 6.60 | 34.00 | 622 | 10.50 | 58.10 | -0.002 | 0.014 | 0.11 | 11.20 | 1.50 | 1.00 | 331 | 0.63 | 0.05 | 4.20 | 0.43 | 0.25 | 0.84 | 118.00 | 0.40 | 11.50 | 47.30 | 157 | 17782851 | | | | | | |
| 8898917 | E22 | 0.27 | 7.77 | 6.00 | 514 | 1.22 | 0.13 | 1.58 | 0.09 | 26.30 | 14.90 | 72.30 | 1.90 | 36.40 | 3.43 | 17.80 | -0.05 | 2.70 | 0.024 | 1.92 | 11.20 | 28.20 | 0.98 | 417 | 0.45 | 2.05 | 5.40 | 39.30 | 688 | 10.20 | 61.00 | -0.002 | 0.014 | 0.13 | 11.40 | 1.50 | 0.90 | 299 | 0.49 | 0.03 | 3.60 | 0.36 | 0.25 | 0.86 | 97.00 | 0.40 | 8.50 | 78.00 | 100 | 17782851 | | | | | | |
| 8898918 | E23 | 0.19 | 7.30 | 5.10 | 548 | 1.29 | 0.11 | 1.63 | 0.09 | 53.90 | 10.60 | 77.40 | 1.44 | 44.10 | 2.71 | 16.60 | -0.05 | 2.70 | 0.027 | 2.02 | 14.20 | 23.50 | 0.93 | 333 | 0.32 | 2.21 | 5.40 | 38.60 | 207 | 10.40 | 62.90 | -0.002 | 0.013 | 0.10 | 10.80 | 0.60 | 0.90 | 335 | 0.46 | 0.02 | 3.90 | 0.34 | 0.25 | 0.82 | 79.20 | 0.30 | 11.10 | 30.70 | 105 | 17782851 | | | | | | |
| 8898919 | E24 | 0.27 | 5.67 | 4.10 | 388 | 0.91 | 0.14 | 1.38 | 0.11 | 18.50 | 8.46 | 98.40 | 1.41 | 13.00 | 2.60 | 17.70 | -0.05 | 2.10 | 0.024 | 1.30 | 8.70 | 17.70 | 0.75 | 495 | 0.44 | 1.70 | 5.20 | 31.00 | 1310 | 13.40 | 62.80 | -0.002 | 0.014 | 0.13 | 9.40 | 0.80 | 0.90 | 227 | 0.42 | 0.03 | 2.50 | 0.34 | 0.19 | 0.69 | 82.60 | 0.40 | 7.50 | 63.70 | 84 | 17782851 | | | | | | |
| 8898920 | E25 | 0.28 | 5.92 | 6.80 | 478 | 1.01 | 0.14 | 1.36 | 0.06 | 18.40 | 7.27 | 50.40 | 1.45 | 16.00 | 2.40 | 19.50 | -0.05 | 2.60 | 0.023 | 1.67 | 9.00 | 12.30 | 0.59 | 283 | 0.53 | 2.05 | 4.00 | 21.00 | 1077 | 13.60 | 42.90 | -0.002 | 0.013 | 0.26 | 11.00 | 0.80 | 0.80 | 311 | 0.47 | 0.07 | 2.50 | 0.28 | 0.27 | 0.65 | 73.50 | 0.40 | 7.20 | 23.20 | 102 | 17782851 | | | | | | |
| 8898921 | E26 | 0.21 | 7.21 | 4.20 | 442 | 1.11 | 0.14 | 1.42 | 0.11 | 25.20 | 14.10 | 60.60 | 1.66 | 7.00 | 3.78 | 17.80 | -0.05 | 2.80 | 0.031 | 1.58 | 11.70 | 26.90 | 0.79 | 359 | 0.58 | 1.80 | 5.20 | 32.20 | 448 | 9.90 | 57.50 | -0.002 | 0.014 | 0.20 | 10.00 | 1.30 | 1.70 | 261 | 0.44 | 0.06 | 4.00 | 0.36 | 0.21 | 0.82 | 99.00 | 0.40 | 7.80 | 38.20 | 104 | 17782851 | | | | | | |
| 8898922 | E27 | 0.21 | 7.07 | 6.80 | 457 | 1.25 | 0.16 | 1.42 | 0.06 | 22.10 | 14.80 | 63.70 | 1.80 | 36.60 | 3.71 | 19.80 | -0.05 | 2.60 | 0.029 | 1.55 | 10.90 | 32.30 | 0.70 | 315 | 0.80 | 1.99 | 5.30 | 36.40 | 288 | 11.30 | 52.40 | -0.002 | 0.014 | 0.16 | 9.80 | 0.90 | 0.90 | 285 | 0.48 | 0.06 | 3.30 | 0.35 | 0.23 | 0.82 | 100.00 | 0.40 | 7.80 | 35.30 | 103 | 17782851 | | | | | | |
| 8898923 | E28 | 0.24 | 7.07 | 2.70 | 466 | 1.36 | 0.14 | 1.04 | 0.04 | 27.40 | 13.00 | 76.90 | 1.90 | 27.10 | 2.47 | 20.70 | -0.05 | 2.70 | 0.029 | 1.60 | 14.90 | 24.90 | 0.70 | 466 | 0.44 | 2.07 | 6.70 | 34.60 | 103 | 10.80 | 64.80 | -0.002 | 0.014 | 0.17 | 10.90 | 1.00 | 0.90 | 319 | 0.47 | 0.04 | 4.60 | 0.38 | 0.26 | 0.85 | 98.00 | 0.40 | 9.00 | 51.90 | 120 | | | | | | | |

2017 Soil Sample Results

| Sample ID | Field ID | Ag ppm | As ppm | Ba ppm | Bd ppm | Bi ppm | Ca % | Cd ppm | Ce ppm | Co ppm | Cr ppm | Cs ppm | Cu ppm | Fe % | Ga ppm | Ge ppm | Hf ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm | Mo ppm | Nb ppm | Ni ppm | P ppm | Pb ppm | Rb ppm | Re ppm | S % | Sb ppm | Sc ppm | Se ppm | Si ppm | Sr ppm | Ta ppm | Ti % | Tl ppm | Tl % | Tl ppm | V ppm | V ppm | V ppm | Zn ppm | Zn ppm | Zr ppm | Certificate | | | | |
|-----------|----------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|-------|--------|-------|--------|--------|--------|--------|-------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|------|--------|-------|--------|-------|-------|-------|--------|--------|--------|-------------|-------|----------|----------|----------|
| 8899915 | G14 | 0.10 | 5.31 | 2.90 | 4.76 | 1.24 | 0.06 | 1.45 | 0.04 | 20.30 | 8.23 | 54.70 | 0.94 | 5.00 | 2.06 | 13.70 | -0.05 | 1.50 | 0.02 | 1.51 | 0.80 | 11.50 | 0.58 | 2.91 | 0.34 | 2.14 | 34.60 | 25.20 | 411 | 10.70 | 49.90 | -0.002 | 0.03 | 0.10 | 6.90 | 0.70 | 2.75 | 0.19 | -0.01 | 2.40 | 0.19 | 0.25 | 0.52 | 49.10 | 0.20 | 7.20 | 22.00 | 2.60 | 17782858 | | |
| 8899916 | G15 | 0.67 | 6.38 | 3.60 | 4.74 | 1.27 | 0.08 | 1.53 | 0.05 | 23.90 | 60.90 | 1.05 | 6.50 | 2.31 | 14.80 | -0.05 | 2.20 | 0.25 | 1.46 | 12.10 | 11.30 | 0.65 | 3.65 | 0.47 | 0.56 | 1.93 | 7.10 | 34.50 | 37.20 | 49.00 | -0.002 | 0.03 | 0.11 | 8.60 | 0.70 | 1.20 | 0.24 | 0.01 | 4.30 | 0.23 | 0.62 | 68.80 | 0.50 | 10.20 | 23.10 | 100 | 17782858 | | | | |
| 8899917 | G16 | 0.14 | 6.49 | 3.30 | 4.93 | 1.30 | 0.09 | 1.49 | 0.05 | 28.80 | 11.70 | 49.90 | 1.13 | 10.00 | 2.32 | 14.50 | -0.05 | 1.20 | 0.025 | 1.60 | 10.40 | 12.80 | 0.67 | 3.29 | 0.40 | 2.13 | 4.50 | 31.00 | 35.90 | 11.80 | 50.00 | -0.002 | 0.03 | 0.14 | 8.00 | 0.80 | 1.00 | 0.28 | 0.26 | -0.01 | 3.20 | 0.23 | 0.26 | 7.00 | 58.60 | 0.20 | 8.60 | 28.00 | 91 | 17782858 | |
| 8899918 | G17 | 0.16 | 6.47 | 2.40 | 4.99 | 1.17 | 0.10 | 1.35 | 0.06 | 22.00 | 12.90 | 50.80 | 1.30 | 7.50 | 2.72 | 14.50 | -0.05 | 2.60 | 0.027 | 1.53 | 9.70 | 20.70 | 0.59 | 2.75 | 0.62 | 1.88 | 6.20 | 31.40 | 28.20 | 11.20 | 49.00 | -0.002 | 0.03 | 0.13 | 7.90 | 0.50 | 1.10 | 240 | 0.32 | 0.02 | 3.20 | 0.28 | 0.25 | 0.74 | 68.30 | 0.30 | 7.70 | 28.90 | 113 | 17782858 | |
| 8899919 | G18 | 0.13 | 6.38 | 3.80 | 4.70 | 1.15 | 0.16 | 1.42 | 0.06 | 26.10 | 11.80 | 65.30 | 1.52 | 16.20 | 3.38 | 17.30 | -0.05 | 2.80 | 0.030 | 1.56 | 10.80 | 17.80 | 0.75 | 3.51 | 0.51 | 2.00 | 7.40 | 31.20 | 23.90 | 12.20 | 54.40 | -0.002 | 0.04 | 0.16 | 9.60 | 0.60 | 1.20 | 248 | 0.35 | 0.01 | 3.90 | 0.31 | 0.29 | 0.92 | 89.20 | 0.30 | 9.10 | 29.90 | 123 | 17782858 | |
| 8899920 | G19 | 0.23 | 6.12 | 4.70 | 4.29 | 1.33 | 0.13 | 1.33 | 0.06 | 48.60 | 13.60 | 61.90 | 1.24 | 28.20 | 2.58 | 14.00 | -0.05 | 2.20 | 0.026 | 1.46 | 11.40 | 14.50 | 0.72 | 3.44 | 0.44 | 1.91 | 4.30 | 30.50 | 34.60 | 12.60 | 45.80 | -0.002 | 0.03 | 0.18 | 8.60 | 0.90 | 2.31 | 0.26 | 0.03 | 4.00 | 0.25 | 0.27 | 0.95 | 69.00 | 0.30 | 9.10 | 28.20 | 90 | 17782858 | | |
| 8899921 | G20 | 0.34 | 6.47 | 3.30 | 4.75 | 1.12 | 0.14 | 1.44 | 0.09 | 27.40 | 10.30 | 57.40 | 1.55 | 8.60 | 2.60 | 16.10 | -0.05 | 3.00 | 0.030 | 1.52 | 13.30 | 17.40 | 0.86 | 3.29 | 0.64 | 1.85 | 7.30 | 27.30 | 34.90 | 11.30 | 51.00 | -0.002 | 0.03 | 0.18 | 8.80 | 0.90 | 2.42 | 0.42 | 0.03 | 4.80 | 0.32 | 0.28 | 0.96 | 58.50 | 0.40 | 9.70 | 29.30 | 132 | 17782858 | | |
| 8899922 | G21 | 0.17 | 6.40 | 2.40 | 4.62 | 1.11 | 0.17 | 1.53 | 0.06 | 46.90 | 7.00 | 98.30 | 1.09 | 27.00 | 2.77 | 14.80 | -0.05 | 2.30 | 0.021 | 1.38 | 7.70 | 12.50 | 0.47 | 2.73 | 0.94 | 2.09 | 7.60 | 6.80 | 20.80 | 11.60 | 48.80 | -0.002 | 0.04 | 0.15 | 7.50 | 0.90 | 1.20 | 262 | 0.32 | 0.03 | 3.80 | 0.30 | 0.29 | 0.93 | 84.20 | 0.30 | 10.00 | 27.10 | 17782858 | | |
| 8899923 | G22 | 0.18 | 6.44 | 6.00 | 4.54 | 1.48 | 0.16 | 1.41 | 0.06 | 36.80 | 14.50 | 63.30 | 1.33 | 21.10 | 2.31 | 14.80 | -0.05 | 2.20 | 0.029 | 1.40 | 13.80 | 14.80 | 0.59 | 3.14 | 0.66 | 1.92 | 6.10 | 37.40 | 37.70 | 14.00 | 48.50 | -0.002 | 0.04 | 0.15 | 9.00 | 1.10 | 1.10 | 2.53 | 0.33 | 0.01 | 4.20 | 0.24 | 0.28 | 1.06 | 61.60 | 0.40 | 12.10 | 32.60 | 92 | 17782858 | |
| 8899924 | G23 | 0.15 | 6.47 | 2.10 | 4.50 | 1.33 | 0.08 | 1.52 | 0.06 | 27.50 | 9.10 | 55.40 | 0.93 | 5.40 | 2.47 | 13.90 | -0.05 | 1.90 | 0.023 | 1.42 | 10.50 | 11.40 | 0.66 | 3.22 | 0.36 | 2.17 | 4.70 | 24.30 | 34.90 | 11.00 | 47.20 | -0.002 | 0.04 | 0.11 | 8.00 | 0.90 | 1.10 | 287 | 0.28 | -0.01 | 3.60 | 0.24 | 0.25 | 0.68 | 58.30 | 0.20 | 8.90 | 23.30 | 77 | 17782858 | |
| 8899925 | G24 | 0.26 | 5.80 | 4.50 | 3.67 | 0.95 | 0.20 | 0.98 | 0.21 | 20.10 | 7.16 | 60.50 | 1.37 | 14.40 | 3.91 | 13.00 | -0.05 | 2.80 | 0.038 | 1.12 | 9.90 | 21.50 | 0.45 | 2.59 | 1.16 | 1.37 | 6.00 | 18.40 | 41.30 | 12.80 | 39.90 | -0.002 | 0.05 | 0.27 | 7.80 | 1.00 | 1.40 | 165 | 0.41 | 0.04 | 4.00 | 0.34 | 0.26 | 1.19 | 97.00 | 0.50 | 7.80 | 41.30 | 120 | 17782858 | |
| 8899926 | G25 | 0.11 | 6.08 | 2.40 | 5.04 | 1.23 | 0.08 | 1.55 | 0.02 | 25.10 | 8.59 | 31.60 | 1.00 | 10.70 | 1.75 | 15.50 | -0.05 | 2.50 | 0.021 | 1.35 | 12.20 | 15.10 | 0.66 | 2.83 | 0.31 | 2.27 | 4.46 | 24.40 | 34.90 | 11.70 | 51.10 | -0.002 | 0.03 | 0.11 | 7.60 | 0.90 | 1.00 | 292 | 0.25 | -0.01 | 3.40 | 0.23 | 0.30 | 0.67 | 50.80 | 0.20 | 9.20 | 23.00 | 112 | 17782858 | |
| 8899927 | G26 | 0.26 | 6.38 | 3.60 | 4.74 | 1.27 | 0.08 | 1.53 | 0.05 | 23.90 | 60.90 | 1.05 | 6.50 | 2.31 | 14.80 | -0.05 | 2.20 | 0.25 | 1.46 | 12.10 | 11.30 | 0.65 | 3.65 | 0.47 | 0.56 | 1.93 | 7.10 | 34.50 | 37.20 | 12.60 | 49.00 | -0.002 | 0.03 | 0.11 | 8.60 | 0.70 | 1.20 | 276 | 0.24 | 0.01 | 4.30 | 0.23 | 0.62 | 68.80 | 0.50 | 10.20 | 23.10 | 100 | 17782858 | | |
| 8899928 | G27 | 0.08 | 6.24 | 3.50 | 4.83 | 1.33 | 0.08 | 1.47 | 0.07 | 23.70 | 10.90 | 49.30 | 1.05 | 5.00 | 2.31 | 14.50 | -0.05 | 1.90 | 0.026 | 1.49 | 10.20 | 13.20 | 0.58 | 2.95 | 0.41 | 2.18 | 4.10 | 24.90 | 46.70 | 11.00 | 49.00 | -0.002 | 0.04 | 0.13 | 2.20 | 0.60 | 1.20 | 284 | 0.22 | 0.02 | 3.10 | 0.32 | 0.24 | 0.61 | 53.80 | 0.30 | 8.70 | 27.80 | 101 | 17782858 | |
| 8899929 | G28 | 0.17 | 6.48 | 2.00 | 4.87 | 1.25 | 0.10 | 1.55 | 0.05 | 18.50 | 9.46 | 49.30 | 1.15 | 3.50 | 2.60 | 16.00 | -0.05 | 1.90 | 0.025 | 1.51 | 8.70 | 14.00 | 0.64 | 3.55 | 0.49 | 2.14 | 5.20 | 27.40 | 65.20 | 10.80 | 51.40 | -0.002 | 0.03 | 0.16 | 8.00 | 0.70 | 1.10 | 283 | 0.30 | 0.01 | 2.10 | 0.27 | 0.26 | 1.62 | 65.10 | 0.20 | 8.80 | 46.60 | 82 | 17782858 | |
| 8899930 | G29 | 0.17 | 6.48 | 3.20 | 4.47 | 1.33 | 0.15 | 1.34 | 0.05 | 48.90 | 17.10 | 70.00 | 1.48 | 17.10 | 2.98 | 15.50 | -0.05 | 3.00 | 0.031 | 1.50 | 13.60 | 17.80 | 0.77 | 3.80 | 0.51 | 1.87 | 6.80 | 36.20 | 32.00 | 11.30 | 53.50 | -0.002 | 0.04 | 0.18 | 7.70 | 1.10 | 1.10 | 224 | 0.37 | 0.03 | 5.50 | 0.30 | 0.26 | 1.16 | 75.60 | 0.40 | 10.90 | 36.60 | 137 | 17782858 | |
| 8899931 | G30 | 0.19 | 6.98 | 4.10 | 5.09 | 1.29 | 0.10 | 1.47 | 0.08 | 36.10 | 10.70 | 60.40 | 1.29 | 3.60 | 3.27 | 19.50 | -0.05 | 3.50 | 0.031 | 1.62 | 16.90 | 17.40 | 0.59 | 3.42 | 0.59 | 2.07 | 5.00 | 22.90 | 46.60 | 12.30 | 55.50 | -0.002 | 0.04 | 0.16 | 8.30 | 0.90 | 2.20 | 3.00 | 0.84 | 0.03 | 5.80 | 0.28 | 0.27 | 0.86 | 62.40 | 0.20 | 13.50 | 43.70 | 127 | 17782858 | |
| 8899932 | G31 | 0.21 | 7.74 | 3.00 | 4.30 | 1.30 | 0.12 | 1.36 | 0.08 | 32.40 | 13.20 | 79.10 | 1.51 | 5.90 | 3.47 | 20.10 | -0.05 | 3.00 | 0.041 | 1.36 | 16.20 | 19.70 | 0.66 | 3.85 | 0.84 | 1.75 | 8.90 | 24.90 | 74.60 | 11.80 | 49.00 | -0.002 | 0.05 | 0.27 | 9.10 | 1.20 | 2.30 | 264 | 0.78 | 0.02 | 4.90 | 0.33 | 0.24 | 0.83 | 83.10 | 0.60 | 12.70 | 44.10 | 159 | 17782858 | |
| 8899933 | G32 | 0.36 | 6.92 | 1.40 | 4.97 | 1.17 | 0.09 | 1.38 | 0.09 | 41.70 | 72.00 | 17.70 | 9.00 | 24.00 | 19.00 | -0.05 | 3.10 | 0.033 | 1.90 | 19.00 | 17.90 | 0.57 | 3.14 | 0.61 | 1.91 | 9.10 | 31.10 | 5.78 | 11.60 | 61.90 | -0.002 | 0.05 | 0.23 | 10.00 | 1.60 | 1.70 | 276 | 0.71 | 0.02 | 4.30 | 0.28 | 0.29 | 0.91 | 62.90 | 0.50 | 16.00 | 39.00 | 163 | 17782858 | | |
| 8899934 | G33 | 0.17 | 6.91 | 2.20 | 4.66 | 1.31 | 0.09 | 1.62 | 0.06 | 21.90 | 15.30 | 75.60 | 1.25 | 5.90 | 2.74 | 17.00 | -0.05 | 2.20 | 0.030 | 1.51 | 9.90 | 17.40 | 0.82 | 4.67 | 0.50 | 2.18 | 7.20 | 31.00 | 49.10 | 11.10 | 55.20 | -0.002 | 0.04 | 0.13 | 9.60 | 1.00 | 1.80 | 333 | 0.58 | -0.01 | 2.50 | 0.30 | 0.27 | 0.62 | 74.00 | 0.40 | 14.20 | 32.20 | 122 | 17782858 | |
| 8899934 | G34 | 0.24 | 6.91 | 2.00 | 4.98 | 1.23 | 0.08 | 1.68 | 0.07 | 52.00 | 14.10 | 81.00 | 1.42 | 9.30 | 2.30 | 18.30 | -0.05 | 3.80 | 0.031 | 1.60 | 25.00 | 14.20 | 0.82 | 4.74 | 0.48 | 2.15 | 11.40 | 32.70 | 45.80 | 11.00 | 57.80 | -0.002 | 0.03 | 0.16 | 9.00 | 1.00 | 1.80 | 323 | 0.96 | 0.03 | 10.10 | 0.37 | 0.25 | 0.84 | 82.60 | 0.40 | 14.10 | 35.60 | 206 | 17782858 | |
| 8899935 | G35 | 0.24 | 6.85 | 2.10 | 4.79 | 1.18 | 0.09 | 1.36 | 0.07 | 21.10 | 14.60 | 60.60 | 1.38 | 6.20 | 2.39 | 17.00 | -0.05 | 3.00 | 0.025 | 1.50 | 10.60 | 17.30 | 0.62 | 3.25 | 0.63 | 1.98 | 6.90 | 36.40 | 46.90 | 10.40 | 54.40 | -0.002 | 0.04 | 0.15 | 7.70 | 1.20 | 1.40 | 280 | 0.52 | 0.02 | 0.70 | 3.07 | 0.25 | 0.26 | 0.68 | 59.40 | 0.50 | 12.40 | 38.80 | 153 | 17782858 |
| 8899936 | G36 | 0.35 | 7.41 | 3.20 | 5.09 | 1.17 | 0.12 | 1.43 | 0.07 | 26.60 | 17.00 | 70.50 | 1.63 | 6.90 | 2.63 | 18.60 | -0.05 | 3.10 | 0.032 | 1.62 | 13.20 | 20.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

2017 Soil Sample Results

| Sample ID | Field ID | Ag ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Cs ppm | Ce ppm | Co ppm | Cu ppm | Cr ppm | Pb ppm | Mn ppm | K % | La ppm | Pb ppm | Mg ppm | Mo ppm | Nb ppm | Ni ppm | P ppm | Pb ppm | Rb ppm | Re ppm | Sb ppm | Se ppm | Sn ppm | Sr ppm | Ta ppm | Ti ppm | Tl ppm | U ppm | V ppm | Zn ppm | Zr ppm | Certificate | | | | | | | | | | | | | | |
|-----------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|-------|--------|--------|-------------|------|------|-------|-------|------|------|------|-------|--------|------|--------|-------|----------|----------|
| 8894025 | I26 | 1.08 | 0.47 | 2.30 | 4.90 | 1.17 | 0.09 | 1.40 | 0.07 | 20.90 | 9.42 | 19.10 | 1.27 | 4.00 | 2.60 | 14.30 | -0.05 | 2.50 | 0.028 | 1.51 | 9.90 | 15.60 | 0.56 | 4.16 | 0.52 | 1.98 | 5.20 | 21.60 | 8.78 | 11.30 | 46.10 | -0.0024 | 0.13 | 7.70 | 0.80 | 0.90 | 255 | 0.36 | -0.01 | 3.10 | 0.27 | 2.40 | 0.81 | 59.60 | 0.30 | 7.40 | 48.80 | 127 | 17728285 | |
| 8894026 | I27 | 0.23 | 0.37 | 1.90 | 4.64 | 1.07 | 0.07 | 1.47 | 0.06 | 24.90 | 8.61 | 58.10 | 0.95 | 3.80 | 2.60 | 13.90 | -0.05 | 1.40 | 0.024 | 1.59 | 6.70 | 10.30 | 0.64 | 3.63 | 0.48 | 2.00 | 5.60 | 26.30 | 3.47 | 11.70 | 50.00 | -0.0023 | 0.04 | 0.13 | 7.70 | 0.60 | 0.80 | 279 | 0.33 | -0.01 | 3.90 | 0.25 | 0.21 | 0.51 | 49.70 | 0.40 | 6.20 | 64 | 17728285 | |
| 8894027 | I28 | 0.20 | 0.58 | 4.30 | 4.67 | 1.27 | 0.09 | 1.48 | 0.05 | 23.90 | 11.30 | 65.10 | 1.13 | 4.00 | 2.82 | 14.90 | -0.05 | 2.30 | 0.033 | 1.46 | 11.50 | 15.80 | 0.88 | 3.55 | 0.48 | 2.00 | 5.80 | 19.20 | 5.23 | 11.00 | 45.50 | -0.0024 | 0.14 | 0.21 | 8.80 | 0.70 | 1.00 | 266 | 0.40 | -0.01 | 5.30 | 0.28 | 0.24 | 0.77 | 68.70 | 0.30 | 9.30 | 37.10 | 97 | 17728285 |
| 8894028 | I29 | 0.17 | 0.57 | 2.30 | 4.63 | 1.15 | 0.08 | 1.55 | 0.06 | 22.30 | 11.50 | 69.20 | 1.10 | 7.90 | 2.91 | 13.80 | -0.05 | 3.00 | 0.026 | 1.40 | 10.00 | 14.40 | 0.79 | 4.23 | 0.43 | 1.98 | 5.30 | 35.20 | 4.90 | 10.20 | 45.50 | -0.0023 | 0.13 | 0.12 | 9.10 | 0.60 | 1.00 | 268 | 0.35 | -0.01 | 3.50 | 0.30 | 0.22 | 0.88 | 73.20 | 0.30 | 9.10 | 37.30 | 127 | 17728285 |
| 8894029 | I30 | 0.24 | 0.63 | 1.10 | 5.14 | 0.93 | 0.08 | 1.34 | 0.05 | 19.40 | 4.80 | 40.80 | 1.04 | 2.60 | 1.73 | 13.80 | -0.05 | 2.60 | 0.020 | 1.55 | 12.60 | 9.60 | 0.45 | 2.85 | 0.38 | 1.99 | 4.40 | 14.70 | 21.00 | 10.50 | 47.60 | -0.0022 | 0.15 | 0.70 | 0.70 | 1.00 | 288 | 0.36 | -0.01 | 3.30 | 0.27 | 0.25 | 0.75 | 48.90 | 0.30 | 7.20 | 28.00 | 110 | 17728285 | |
| 8894030 | I31 | 0.13 | 0.53 | 2.50 | 5.13 | 1.11 | 0.08 | 1.50 | 0.07 | 21.60 | 7.16 | 54.60 | 1.02 | 3.20 | 2.31 | 14.80 | -0.05 | 2.40 | 0.026 | 1.51 | 10.90 | 12.50 | 0.55 | 3.24 | 0.35 | 2.13 | 5.10 | 22.10 | 3.98 | 11.20 | 46.40 | -0.0024 | 0.14 | 0.12 | 7.70 | 0.80 | 0.90 | 287 | 0.36 | -0.01 | 3.00 | 0.26 | 0.24 | 0.68 | 58.50 | 0.30 | 7.80 | 40.00 | 101 | 17728285 |
| 8894031 | I32 | 0.21 | 0.56 | 1.30 | 5.28 | 1.17 | 0.08 | 1.40 | 0.06 | 20.60 | 8.92 | 54.00 | 1.17 | 4.00 | 2.40 | 14.60 | -0.05 | 2.60 | 0.024 | 1.63 | 10.20 | 14.60 | 0.56 | 3.01 | 0.56 | 2.02 | 5.20 | 25.70 | 3.87 | 10.90 | 45.50 | -0.0023 | 0.15 | 0.70 | 0.70 | 1.20 | 270 | 0.36 | -0.01 | 3.30 | 0.27 | 0.24 | 0.76 | 59.00 | 0.30 | 7.60 | 34.40 | 111 | 17728285 | |
| 8894032 | I33 | 0.23 | 0.36 | 1.10 | 4.74 | 1.07 | 0.07 | 1.37 | 0.04 | 22.40 | 7.89 | 50.10 | 1.09 | 2.60 | 1.65 | 20.00 | -0.05 | 1.60 | 0.021 | 1.57 | 11.00 | 12.00 | 0.58 | 2.50 | 0.32 | 2.15 | 4.10 | 26.10 | 2.93 | 11.90 | 45.50 | -0.0023 | 0.13 | 0.13 | 7.70 | 0.60 | 0.90 | 279 | 0.28 | -0.01 | 3.20 | 0.20 | 0.21 | 0.51 | 49.70 | 0.40 | 6.20 | 64 | 17728285 | |
| 8894033 | I34 | 0.19 | 0.62 | 1.90 | 5.14 | 1.13 | 0.07 | 1.40 | 0.04 | 17.60 | 9.76 | 46.90 | 0.93 | 7.50 | 1.97 | 13.30 | -0.05 | 1.90 | 0.022 | 1.57 | 7.80 | 11.90 | 0.61 | 2.85 | 0.53 | 2.21 | 4.50 | 28.60 | 3.76 | 10.70 | 47.60 | -0.0023 | 0.18 | 0.70 | 0.60 | 1.50 | 297 | 0.38 | -0.01 | 2.60 | 0.20 | 0.25 | 0.56 | 49.30 | 0.30 | 6.60 | 25.90 | 68 | 17728285 | |
| 8894034 | I35 | 0.28 | 0.91 | 2.20 | 4.61 | 0.90 | 0.11 | 1.27 | 0.07 | 30.30 | 9.07 | 55.30 | 1.53 | 10.10 | 2.56 | 14.20 | -0.05 | 2.10 | 0.027 | 1.40 | 15.00 | 21.00 | 0.58 | 2.83 | 0.62 | 1.60 | 5.40 | 26.40 | 3.85 | 13.50 | 45.50 | -0.0024 | 0.14 | 0.21 | 7.10 | 1.00 | 1.20 | 218 | 0.38 | -0.01 | 3.80 | 0.26 | 0.25 | 0.80 | 26.40 | 0.40 | 7.40 | 58.60 | 84 | 17728285 |
| 8894035 | I36 | 0.26 | 0.43 | 4.40 | 4.89 | 1.15 | 0.16 | 1.36 | 0.13 | 23.70 | 13.00 | 67.50 | 2.00 | 11.20 | 3.17 | 15.50 | -0.05 | 2.30 | 0.034 | 1.57 | 10.20 | 24.80 | 0.68 | 4.15 | 0.76 | 1.67 | 6.10 | 34.20 | 13.60 | 45.70 | -0.0025 | 0.13 | 0.14 | 8.10 | 0.80 | 1.10 | 228 | 0.40 | 0.03 | 3.30 | 0.29 | 0.24 | 0.95 | 69.90 | 0.30 | 7.50 | 117.00 | 95 | 17728285 | |
| 8894036 | I37 | 0.15 | 0.60 | 2.30 | 5.69 | 1.05 | 0.09 | 1.28 | 0.04 | 14.50 | 5.59 | 33.60 | 1.00 | 2.96 | 1.63 | 14.90 | -0.05 | 1.90 | 0.017 | 1.72 | 9.90 | 9.70 | 0.41 | 2.24 | 0.28 | 2.25 | 3.70 | 13.80 | 3.62 | 11.96 | 56.50 | -0.0023 | 0.15 | 0.50 | 0.50 | 0.80 | 297 | 0.28 | -0.01 | 2.20 | 0.19 | 0.28 | 0.54 | 41.40 | 0.20 | 5.40 | 35.40 | 177 | 17728285 | |
| 8894037 | I38 | 0.44 | 0.56 | 6.10 | 5.52 | 0.91 | 0.14 | 1.34 | 0.09 | 24.90 | 47.30 | 13.40 | 1.64 | 2.04 | 15.50 | -0.05 | 2.80 | 0.028 | 1.69 | 10.60 | 13.90 | 0.49 | 2.46 | 0.66 | 1.88 | 5.70 | 17.40 | 5.22 | 14.20 | 50.00 | -0.0023 | 0.13 | 0.29 | 6.90 | 0.80 | 1.10 | 252 | 0.37 | -0.01 | 3.50 | 0.27 | 0.23 | 0.50 | 52.80 | 0.30 | 7.50 | 38.10 | 116 | 17728285 | |
| 8894038 | I39 | 0.27 | 0.43 | 4.50 | 5.17 | 1.12 | 0.12 | 1.42 | 0.11 | 22.30 | 9.36 | 58.40 | 1.25 | 4.88 | 2.48 | 15.90 | -0.05 | 2.50 | 0.026 | 1.40 | 10.70 | 16.30 | 0.64 | 3.25 | 0.56 | 1.89 | 6.30 | 30.40 | 5.35 | 11.10 | 45.20 | -0.0023 | 0.13 | 0.25 | 9.90 | 0.50 | 0.50 | 254 | 0.43 | -0.01 | 3.10 | 0.28 | 0.23 | 0.78 | 60.60 | 0.70 | 7.88 | 88.00 | 107 | 17728285 |
| 8894039 | I40 | 0.61 | 0.63 | 22.50 | 4.08 | 1.51 | 0.39 | 1.44 | 0.21 | 43.90 | 26.80 | 81.70 | 2.63 | 69.70 | 5.47 | 15.20 | -0.05 | 2.40 | 0.062 | 1.41 | 18.50 | 31.50 | 1.00 | 7.03 | 1.23 | 1.43 | 1.90 | 55.90 | 3.90 | 24.40 | 39.00 | -0.0022 | 0.08 | 0.64 | 10.60 | 1.00 | 1.20 | 192 | 0.50 | 0.11 | 7.10 | 0.62 | 0.19 | 1.36 | 119.00 | 0.60 | 10.70 | 94.10 | 99 | 17728285 |
| 8894040 | I41 | 1.22 | 0.78 | 2.00 | 4.67 | 1.25 | 0.92 | 1.23 | 0.04 | 17.80 | 9.59 | 56.00 | 1.18 | 4.40 | 2.52 | 14.30 | -0.05 | 2.80 | 0.030 | 1.49 | 8.60 | 15.90 | 0.50 | 2.33 | 0.53 | 1.85 | 4.40 | 24.00 | 3.47 | 28.40 | 45.50 | -0.0022 | 0.09 | 0.13 | 7.70 | 0.90 | 1.00 | 243 | 0.35 | -0.01 | 3.50 | 0.24 | 0.26 | 0.81 | 52.80 | 0.70 | 7.20 | 28.00 | 116 | 17728285 |
| 8894041 | I42 | 0.17 | 0.63 | 2.40 | 5.21 | 1.23 | 0.07 | 1.40 | 0.03 | 20.60 | 8.80 | 47.10 | 1.03 | 4.60 | 2.01 | 13.50 | -0.05 | 2.20 | 0.021 | 1.63 | 10.70 | 12.20 | 0.58 | 2.87 | 0.29 | 2.14 | 4.00 | 27.20 | 41.40 | 10.80 | 50.10 | -0.0023 | 0.16 | 0.60 | 0.50 | 0.80 | 285 | 0.31 | -0.01 | 3.10 | 0.20 | 0.24 | 0.71 | 47.30 | 0.20 | 7.50 | 25.70 | 94 | 17728285 | |
| 8894042 | I43 | 0.19 | 0.66 | 2.00 | 5.13 | 1.22 | 0.09 | 1.39 | 0.07 | 21.80 | 9.43 | 55.60 | 1.23 | 2.16 | 1.44 | 14.30 | -0.05 | 2.80 | 0.027 | 1.62 | 9.60 | 14.50 | 0.66 | 2.75 | 0.41 | 2.01 | 5.70 | 27.70 | 4.89 | 11.30 | 49.60 | -0.0024 | 0.15 | 0.80 | 0.50 | 1.00 | 255 | 0.40 | -0.01 | 3.30 | 0.26 | 0.26 | 0.71 | 53.10 | 0.40 | 7.50 | 35.70 | 115 | 17728285 | |
| 8894043 | I44 | 0.20 | 0.68 | 2.10 | 4.97 | 1.21 | 0.09 | 1.43 | 0.06 | 21.60 | 10.00 | 58.00 | 1.18 | 3.84 | 2.38 | 14.60 | -0.05 | 2.90 | 0.024 | 1.51 | 10.10 | 13.00 | 0.54 | 3.54 | 0.43 | 2.03 | 5.50 | 27.60 | 5.67 | 11.70 | 51.20 | -0.0024 | 0.15 | 0.78 | 0.80 | -0.05 | 1.00 | 274 | 0.36 | -0.01 | 3.00 | 0.25 | 0.25 | 0.79 | 58.10 | 0.30 | 8.10 | 36.10 | 121 | 17728285 |
| 8894044 | I45 | 0.24 | 0.71 | 3.90 | 4.58 | 1.28 | 0.10 | 1.41 | 0.06 | 31.80 | 8.39 | 65.00 | 1.04 | 12.80 | 2.76 | 13.80 | -0.05 | 2.70 | 0.030 | 1.44 | 14.30 | 14.00 | 0.60 | 2.99 | 0.74 | 1.93 | 5.10 | 24.90 | 9.09 | 12.20 | 40.20 | -0.0025 | 0.19 | 0.80 | 1.10 | 0.80 | 1.10 | 259 | 0.35 | -0.01 | 5.30 | 0.25 | 0.23 | 1.08 | 60.00 | 0.90 | 10.00 | 42.60 | 108 | 17728285 |
| 8894045 | J6 | 0.18 | 0.25 | 2.10 | 4.14 | 1.13 | 0.08 | 1.46 | 0.07 | 20.00 | 7.41 | 47.30 | 1.03 | 2.00 | 1.03 | 14.80 | -0.05 | 3.00 | 0.021 | 1.63 | 9.80 | 11.80 | 0.53 | 3.13 | 0.33 | 2.13 | 5.40 | 21.80 | 4.80 | 10.50 | 48.20 | -0.0023 | 0.16 | 0.70 | 0.90 | 0.70 | 279 | 0.32 | -0.01 | 7.40 | 0.24 | 0.25 | 0.80 | 50.00 | 0.20 | 7.50 | 41.80 | 125 | 17728285 | |
| 8894046 | J7 | 0.22 | 0.64 | 2.10 | 4.99 | 1.23 | 0.09 | 1.35 | 0.06 | 25.80 | 8.40 | 51.30 | 1.08 | 3.20 | 2.40 | 15.70 | -0.05 | 2.10 | 0.024 | 1.59 | 11.90 | 12.70 | 0.52 | 3.02 | 0.43 | 2.02 | 5.10 | 21.60 | 4.94 | 11.70 | 50.60 | -0.0023 | 0.13 | 0.23 | 7.20 | 0.70 | 1.20 | 0.70 | 0.34 | -0.01 | 4.50 | 0.26 | 0.25 | 0.76 | 59.40 | 0.30 | 7.60 | 33.00 | 87 | 17728285 |
| 8894047 | J8 | 0.21 | 0.33 | 3.00 | 4.81 | 1.05 | 0.08 | 1.38 | 0.06 | 22.30 | 10.10 | 54.20 | 1.06 | 5.26 | 2.18 | 13.30 | -0.05 | 3.00 | 0.025 | 1.56 | 12.30 | 12.30 | 0.66 | 3.33 | 0.37 | 2.00 | 4.80 | 25.70 | 5.58 | 10.30 | 48.30 | -0.0023 | 0.13 | 0.70 | 0.50 | 0.80 | 265 | | | | | | | | | | | | | |

2017 Soil Sample Results

| Sample ID | Field ID | Ag ppm | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Ce ppm | Co ppm | Cr ppm | Cs ppm | Cu ppm | Fe % | Ga ppm | Ge ppm | Hf ppm | In ppm | K % | La ppm | Li ppm | Mg % | Mn ppm | Mo ppm | Na % | Nb ppm | Ni ppm | P ppm | Pb ppm | Rb ppm | Re ppm | S % | Sb ppm | Sc ppm | Se ppm | Sn ppm | Sr ppm | Ta ppm | Te ppm | Th ppm | Ti % | Tl ppm | U ppm | V ppm | W ppm | Y ppm | Zn ppm | Zr ppm | Certificate |
|-----------|----------|--------|------|--------|--------|--------|--------|------|--------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|------|--------|--------|------|--------|--------|-------|--------|--------|--------|------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------|-------|-------|-------|-------|--------|--------|-------------|
| 8894200 | M14 | 1.88 | 6.59 | 2.60 | 5.22 | 1.45 | 0.10 | 1.48 | 0.05 | 28.90 | 10.80 | 55.80 | 1.63 | 9.60 | 2.11 | 18.10 | <0.05 | 2.40 | 0.025 | 1.71 | 11.00 | 15.00 | 0.63 | 3.28 | 0.46 | 2.15 | 5.70 | 27.50 | 388 | 11.20 | 53.90 | <0.002 | 0.03 | 0.17 | 8.20 | 0.70 | 2.10 | 315 | 0.60 | <0.01 | 3.40 | 0.26 | 0.25 | 0.75 | 54.30 | 0.20 | 10.10 | 50.20 | 110 | 177282586 |
| 8894201 | M15 | 0.32 | 6.70 | 5.70 | 4.41 | 1.44 | 0.21 | 1.49 | 0.07 | 29.80 | 22.20 | 63.40 | 2.11 | 57.50 | 3.21 | 19.60 | <0.05 | 3.10 | 0.042 | 1.59 | 12.60 | 22.90 | 0.90 | 4.21 | 0.59 | 1.90 | 7.10 | 38.60 | 360 | 12.90 | 56.00 | <0.002 | 0.04 | 0.36 | 10.80 | 0.90 | 1.50 | 355 | 0.48 | <0.01 | 4.30 | 0.34 | 0.25 | 0.99 | 90.80 | 0.40 | 12.60 | 57.60 | 149 | 177282586 |
| 8894202 | M16 | 0.18 | 6.60 | 4.20 | 5.29 | 1.42 | 0.10 | 1.57 | 0.03 | 26.30 | 11.90 | 54.00 | 1.35 | 18.30 | 2.11 | 18.20 | <0.05 | 3.00 | 0.026 | 1.68 | 12.90 | 14.20 | 0.68 | 3.03 | 0.45 | 2.31 | 5.80 | 29.40 | 222 | 11.70 | 50.90 | <0.002 | 0.03 | 0.11 | 8.40 | 0.80 | 1.20 | 341 | 0.42 | <0.01 | 3.20 | 0.26 | 0.25 | 0.73 | 59.50 | 0.20 | 11.30 | 28.20 | 137 | 177282586 |
| 8894203 | M17 | 0.19 | 6.33 | 4.50 | 4.94 | 1.42 | 0.10 | 1.41 | 0.05 | 24.40 | 11.80 | 49.80 | 1.31 | 36.90 | 2.17 | 17.90 | <0.05 | 2.60 | 0.026 | 1.62 | 10.50 | 16.40 | 0.66 | 2.79 | 0.48 | 2.15 | 5.10 | 31.20 | 215 | 11.50 | 49.40 | <0.002 | 0.02 | 0.11 | 7.80 | <0.5 | 1.10 | 320 | 0.36 | <0.01 | 2.90 | 0.23 | 0.23 | 0.73 | 65.20 | 0.20 | 9.60 | 24.50 | 116 | 177282586 |
| 8894204 | M18 | 0.21 | 6.38 | 4.70 | 4.66 | 1.33 | 0.15 | 1.44 | 0.08 | 33.40 | 11.40 | 58.80 | 1.47 | 26.00 | 2.61 | 18.30 | <0.05 | 3.10 | 0.029 | 1.64 | 10.50 | 16.40 | 0.69 | 3.26 | 0.51 | 2.08 | 5.10 | 34.60 | 333 | 12.30 | 51.40 | <0.002 | 0.03 | 0.18 | 8.50 | 0.90 | 1.30 | 299 | 0.41 | <0.01 | 4.90 | 0.29 | 0.24 | 0.96 | 71.20 | 0.30 | 11.20 | 33.10 | 127 | 177282586 |
| 8894205 | M19 | 0.32 | 7.24 | 9.40 | 4.19 | 1.54 | 0.21 | 1.35 | 0.09 | 24.20 | 24.60 | 70.60 | 2.30 | 35.30 | 4.21 | 20.50 | 0.07 | 2.80 | 0.045 | 1.41 | 11.70 | 28.90 | 0.79 | 3.55 | 0.95 | 1.89 | 6.90 | 41.20 | 381 | 11.90 | 49.60 | <0.002 | 0.05 | 0.32 | 10.40 | 1.20 | 1.60 | 242 | 0.52 | <0.01 | 4.00 | 0.34 | 0.26 | 1.14 | 95.70 | 0.50 | 12.20 | 39.40 | 128 | 177282586 |
| 8894206 | M20 | 0.19 | 6.76 | 3.90 | 4.85 | 1.52 | 0.10 | 1.52 | 0.06 | 33.20 | 17.80 | 60.80 | 1.51 | 11.80 | 2.33 | 17.20 | <0.05 | 2.80 | 0.025 | 1.58 | 12.00 | 14.90 | 0.68 | 3.24 | 0.40 | 2.22 | 5.50 | 30.90 | 267 | 11.90 | 49.10 | <0.002 | 0.04 | 0.13 | 8.40 | 0.90 | 1.50 | 316 | 0.41 | <0.01 | 4.20 | 0.26 | 0.24 | 0.78 | 60.40 | 0.20 | 10.70 | 29.10 | 132 | 177282586 |
| 8894207 | M21 | 0.28 | 6.64 | 4.90 | 4.23 | 1.38 | 0.14 | 1.33 | 0.07 | 41.10 | 14.80 | 67.90 | 2.21 | 14.90 | 3.10 | 17.70 | <0.05 | 3.30 | 0.032 | 1.46 | 19.60 | 19.70 | 0.66 | 3.39 | 0.74 | 1.87 | 7.40 | 28.00 | 416 | 12.70 | 48.50 | <0.002 | 0.04 | 0.37 | 9.30 | 1.10 | 1.50 | 259 | 0.86 | 0.07 | 9.70 | 0.31 | 0.27 | 1.17 | 76.90 | 0.50 | 11.60 | 41.40 | 139 | 177282586 |
| 8894208 | M22 | 0.23 | 6.56 | 3.90 | 4.32 | 1.37 | 0.14 | 1.33 | 0.08 | 29.00 | 15.80 | 73.50 | 2.11 | 22.80 | 2.91 | 17.30 | <0.05 | 3.30 | 0.030 | 1.52 | 13.00 | 18.50 | 0.77 | 3.67 | 0.56 | 1.83 | 6.80 | 31.50 | 375 | 12.50 | 50.30 | <0.002 | 0.04 | 0.26 | 10.00 | 1.00 | 1.50 | 245 | 0.57 | 0.02 | 4.70 | 0.32 | 0.28 | 1.10 | 80.20 | 0.40 | 11.40 | 42.30 | 149 | 177282586 |
| 8894209 | M23 | 0.25 | 6.80 | 3.10 | 4.64 | 1.49 | 0.11 | 1.50 | 0.05 | 48.10 | 12.50 | 64.30 | 1.51 | 17.00 | 2.37 | 18.50 | <0.05 | 3.60 | 0.029 | 1.53 | 21.30 | 14.40 | 0.66 | 3.04 | 0.63 | 2.05 | 7.60 | 26.40 | 379 | 13.00 | 47.10 | <0.002 | 0.04 | 0.16 | 8.80 | 1.00 | 2.20 | 303 | 0.58 | <0.01 | 10.30 | 0.29 | 0.25 | 1.13 | 61.40 | 0.30 | 12.90 | 36.00 | 160 | 177282586 |
| 8894210 | M24 | 0.25 | 6.58 | 4.00 | 4.39 | 1.44 | 0.15 | 1.30 | 0.06 | 30.80 | 15.30 | 68.80 | 2.27 | 13.20 | 3.36 | 21.00 | <0.05 | 2.80 | 0.033 | 1.55 | 14.70 | 22.00 | 0.77 | 3.55 | 0.70 | 1.83 | 7.10 | 30.50 | 431 | 11.20 | 53.50 | <0.002 | 0.04 | 0.24 | 9.90 | 1.30 | 1.60 | 244 | 0.55 | 0.02 | 4.80 | 0.33 | 0.27 | 1.08 | 79.60 | 0.40 | 13.20 | 54.60 | 130 | 177282586 |
| 8894211 | M25 | 0.24 | 6.77 | 5.60 | 4.42 | 1.47 | 0.14 | 1.42 | 0.03 | 52.30 | 21.40 | 75.80 | 1.84 | 15.70 | 2.97 | 18.30 | <0.05 | 3.60 | 0.030 | 1.55 | 15.80 | 19.20 | 0.77 | 4.07 | 0.54 | 1.95 | 7.10 | 37.70 | 536 | 12.70 | 52.90 | <0.002 | 0.04 | 0.30 | 10.20 | 1.00 | 1.60 | 274 | 0.60 | 0.09 | 6.10 | 0.33 | 0.25 | 1.20 | 77.20 | 0.40 | 14.20 | 37.50 | 174 | 177282586 |
| 8894212 | M26 | 0.43 | 6.46 | 3.20 | 4.63 | 1.43 | 0.15 | 1.34 | 0.08 | 25.10 | 10.20 | 60.50 | 2.21 | 12.90 | 2.67 | 19.50 | <0.05 | 3.60 | 0.030 | 1.57 | 12.20 | 17.90 | 0.60 | 3.26 | 0.68 | 1.78 | 7.40 | 23.70 | 945 | 11.90 | 52.80 | <0.002 | 0.05 | 0.24 | 8.80 | 1.00 | 1.50 | 262 | 0.81 | <0.01 | 4.10 | 0.30 | 0.25 | 1.14 | 65.30 | 0.40 | 11.30 | 78.00 | 170 | 177282586 |
| 8894213 | M27 | 0.20 | 6.62 | 1.70 | 5.03 | 1.39 | 0.07 | 1.50 | 0.04 | 24.40 | 12.90 | 53.70 | 1.40 | 2.50 | 2.13 | 17.50 | <0.05 | 2.10 | 0.022 | 1.62 | 11.20 | 13.40 | 0.59 | 3.00 | 0.42 | 2.28 | 4.40 | 25.70 | 465 | 10.70 | 51.90 | <0.002 | 0.04 | 0.11 | 7.30 | 1.00 | 1.30 | 339 | 0.34 | <0.00 | 3.30 | 0.23 | 0.24 | 0.63 | 54.70 | 0.10 | 9.10 | 31.10 | 97 | 177282586 |
| 8894214 | M28 | 0.26 | 6.91 | 1.50 | 4.99 | 1.51 | 0.10 | 1.49 | 0.05 | 26.80 | 14.60 | 61.40 | 1.50 | 3.80 | 2.55 | 18.30 | <0.05 | 2.80 | 0.027 | 1.57 | 12.90 | 16.20 | 0.64 | 3.31 | 0.45 | 2.13 | 5.60 | 30.90 | 448 | 11.40 | 49.90 | <0.002 | 0.04 | 0.10 | 8.40 | 1.10 | 1.60 | 324 | 0.52 | 0.01 | 3.70 | 0.27 | 0.23 | 0.76 | 64.40 | 0.20 | 10.70 | 39.70 | 126 | 177282586 |
| 8894215 | M29 | 0.35 | 5.79 | 2.20 | 5.04 | 1.26 | 0.14 | 1.35 | 0.06 | 29.60 | 9.11 | 45.80 | 1.33 | 6.20 | 1.79 | 19.10 | <0.05 | 3.30 | 0.025 | 1.56 | 14.40 | 11.00 | 0.44 | 2.77 | 0.52 | 2.02 | 6.30 | 17.80 | 264 | 11.60 | 52.50 | <0.002 | 0.03 | 0.18 | 7.30 | 0.50 | 1.40 | 299 | 0.48 | <0.01 | 4.80 | 0.27 | 0.26 | 0.89 | 57.10 | 0.30 | 10.00 | 35.30 | 159 | 177282586 |
| 8894216 | M30 | 0.19 | 6.36 | 2.40 | 4.73 | 1.62 | 0.08 | 1.42 | 0.06 | 20.10 | 11.60 | 57.40 | 1.43 | 3.70 | 2.29 | 18.40 | <0.05 | 1.90 | 0.023 | 1.49 | 8.40 | 13.20 | 0.58 | 3.75 | 0.46 | 2.16 | 5.20 | 23.30 | 561 | 10.50 | 50.20 | <0.002 | 0.04 | 0.82 | 7.70 | 0.70 | 1.20 | 329 | 0.37 | <0.01 | 2.30 | 0.24 | 0.23 | 0.60 | 58.30 | 0.20 | 10.00 | 44.90 | 93 | 177282586 |
| 8894217 | M31 | 0.23 | 6.43 | 1.40 | 4.74 | 1.53 | 0.52 | 1.63 | 0.06 | 31.80 | 12.40 | 67.30 | 1.27 | 3.80 | 2.38 | 17.10 | <0.05 | 2.20 | 0.130 | 1.50 | 14.50 | 12.50 | 0.69 | 3.67 | 0.30 | 2.28 | 5.80 | 27.90 | 515 | 11.50 | 50.20 | <0.002 | 0.03 | 0.14 | 8.40 | 0.50 | 1.20 | 341 | 0.41 | <0.01 | 6.30 | 0.25 | 0.22 | 0.74 | 64.50 | 0.10 | 11.50 | 29.00 | 96 | 177282586 |
| 8894218 | M32 | 0.23 | 6.45 | 2.90 | 4.75 | 1.45 | 0.09 | 1.57 | <0.02 | 32.20 | 12.00 | 68.50 | 1.41 | 3.70 | 2.48 | 17.50 | <0.05 | 2.70 | 0.023 | 1.55 | 16.70 | 13.60 | 0.67 | 3.64 | 0.39 | 2.15 | 5.90 | 28.00 | 529 | 11.00 | 50.60 | <0.002 | 0.03 | 0.15 | 8.70 | 0.80 | 10.60 | 314 | 0.43 | <0.01 | 5.00 | 0.27 | 0.23 | 0.77 | 67.00 | 0.30 | 11.50 | 33.40 | 125 | 177282586 |
| 8894219 | M33 | 0.25 | 6.73 | 2.10 | 4.74 | 1.45 | 0.09 | 1.60 | 0.05 | 24.30 | 15.90 | 67.30 | 1.47 | 3.20 | 2.69 | 18.30 | <0.05 | 2.70 | 0.034 | 1.55 | 11.30 | 15.40 | 0.71 | 3.91 | 0.49 | 2.16 | 6.10 | 30.80 | 497 | 11.00 | 51.00 | <0.002 | 0.04 | 0.12 | 9.00 | 0.80 | 1.30 | 326 | 0.47 | <0.01 | 4.00 | 0.30 | 0.23 | 0.79 | 72.20 | 0.40 | 11.60 | 35.60 | 122 | 177282586 |
| 8894220 | M34 | 0.28 | 6.67 | 1.70 | 4.88 | 1.55 | 0.10 | 1.63 | <0.02 | 34.60 | 12.40 | 73.90 | 1.48 | 3.70 | 2.77 | 18.10 | <0.05 | 3.00 | 0.028 | 1.55 | 15.90 | 15.50 | 0.67 | 3.87 | 0.42 | 2.19 | 6.10 | 29.20 | 680 | 12.00 | 50.00 | <0.002 | 0.04 | 0.10 | 8.80 | <0.5 | 1.60 | 330 | 0.44 | <0.01 | 5.70 | 0.31 | 0.25 | 0.85 | 73.90 | 0.20 | 12.40 | 48.50 | 133 | 177282586 |
| 8894221 | M35 | 0.30 | 6.46 | 2.50 | 4.66 | 1.40 | 0.10 | 1.53 | 0.07 | 23.70 | 11.70 | 77.10 | 1.36 | 4.00 | 3.06 | 17.90 | <0.05 | 3.40 | 0.029 | 1.44 | 10.70 | 16.60 | 0.67 | 4.17 | 0.46 | 2.06 | 6.90 | 29.50 | 551 | 10.60 | 46.80 | <0.002 | 0.04 | 0.16 | 9.20 | 0.80 | 1.30 | 303 | 0.55 | 0.02 | 3.90 | 0.34 | 0.22 | 0.83 | 83.90 | 0.30 | 12.10 | 49.60 | 161 | 177282586 |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

2018 Soil Sample Results

| Sample ID | Ag ppm | Al % | As ppm | Au ppm | B ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Ce ppm | Co ppm | Cr ppm | Cs ppm | Cu ppm | F % | Ga ppm | Ge ppm | Hf ppm | Hg ppm | Ir ppm | K % | La ppm | Li ppm | Mg % | Mn ppm | Mo ppm | Na % | Nb ppm | Ni ppm | P ppm | Pb ppm | Rb ppm | Re ppm | S % | Sb ppm | Se ppm | Si % | Sn ppm | Sp ppm | Ta ppm | Tb ppm | Ti % | Tl ppm | V ppm | W ppm | Zn ppm | Zr ppm | Certificate | | | | |
|-----------|--------|-------|--------|--------|-------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|--------|-------|--------|--------|------|--------|--------|-------|--------|--------|--------|--------|--------|--------|------|--------|--------|-------|--------|--------|--------|--------|--------|--------|-------|-------|--------|--------|-------------|-----------|-----------|-----------|-----------|
| 2018R1501 | 0.27 | 1.19 | 7.50 | <0.02 | <10 | 40 | 0.52 | 1.73 | 30.0 | 44.0 | 20.0 | 19.0 | 0.36 | 27.40 | 18.2 | 1.44 | 0.06 | 0.02 | 0.21 | 0.05 | 0.00 | 25.30 | 2.00 | 0.09 | 83 | 0.49 | 0.01 | 0.40 | 12.30 | 9.00 | 18.10 | 1.00 | 0.00 | 0.33 | 0.28 | 1.80 | 1.00 | 0.50 | 26.10 | 0.01 | 0.04 | 0.33 | 0.017 | 0.00 | 39 | 0.10 | 2.83 | 27 | 0.9 | SD18R1501 | | | |
| 2018R1502 | 2.37 | 23.35 | 18.80 | <0.02 | <10 | 40 | 0.35 | 1.73 | 31.0 | 25.30 | 18.20 | 19.0 | 0.36 | 64.50 | 15.6 | 2.00 | 0.06 | 0.02 | 0.50 | 0.03 | 0.00 | 25.30 | 2.00 | 0.09 | 83 | 0.63 | 0.01 | 0.40 | 16.30 | 14.50 | 17.60 | 1.00 | 0.00 | 0.33 | 0.28 | 1.80 | 1.00 | 0.50 | 26.10 | 0.01 | 0.04 | 0.33 | 0.017 | 0.00 | 39 | 0.10 | 2.83 | 27 | 0.9 | SD18R1502 | | | |
| 2018R1503 | 0.83 | 0.33 | 16.10 | <0.02 | <10 | 20 | 0.11 | 0.69 | 13.3 | 14.65 | 6.60 | 0.27 | 27.60 | 0.66 | 1.39 | 0.06 | 0.02 | 0.30 | 0.04 | 0.03 | 12.70 | 0.90 | 0.03 | 13 | 0.62 | 0.02 | 0.28 | 13.30 | 4.80 | 29.50 | 2.10 | 0.00 | 0.15 | 0.75 | 0.60 | 1.20 | 1.40 | 37.80 | <0.01 | 0.05 | <0.01 | 0.11 | 0.03 | 0.44 | 7 | 1.11 | 3.84 | 24 | 0.5 | SD18R1503 | | | |
| 2018R1504 | 0.19 | 1.13 | 7.30 | <0.02 | <10 | 40 | 0.51 | 1.01 | 0.88 | 0.76 | 0.36 | 4.20 | 25.0 | 0.56 | 2.10 | 1.22 | 3.25 | 0.07 | 0.20 | 0.02 | 0.02 | 28.30 | 7.60 | 2.4 | 83 | 0.69 | 0.02 | 0.68 | 17.60 | 37.0 | 16.70 | 3.00 | 0.00 | 0.45 | 0.60 | 1.90 | 0.80 | 0.40 | 37.20 | <0.01 | 0.04 | 0.33 | 0.027 | 0.08 | 9.9 | 43 | 1.0 | 9.74 | 96 | 1.1 | SD18R1504 | | |
| 2018R1505 | 0.70 | 0.33 | 23.30 | <0.02 | <10 | 40 | 0.12 | 1.13 | 0.22 | 1.62 | 8.73 | 4.50 | 0.90 | 12.8 | 54.0 | 17.7 | <0.05 | 0.02 | 0.35 | 0.11 | 0.03 | 4.60 | 1.80 | 0.40 | 40 | 0.73 | 0.02 | 0.77 | 26.60 | 44.0 | 80.80 | 2.40 | 0.02 | 0.12 | 1.39 | 0.70 | 1.60 | 17.00 | <0.01 | 0.09 | 0.47 | 0.10 | 0.29 | 11 | 1.13 | 1.51 | 71 | 0.7 | SD18R1505 | | | | |
| 2018R1506 | 0.23 | 0.26 | 13.20 | <0.02 | <10 | 20 | 0.09 | 0.17 | 0.10 | 0.23 | 0.76 | 0.30 | 0.28 | 0.29 | 33.07 | 2.30 | 0.01 | 0.02 | 0.46 | 0.08 | 0.05 | 19.60 | 0.00 | 0.07 | 63 | 0.54 | 0.01 | 0.32 | 16.60 | 4.50 | 72.0 | 0.20 | 0.02 | 0.05 | 0.42 | 0.20 | 1.20 | 17.00 | <0.01 | 0.02 | 0.08 | 0.22 | 0.11 | 0.10 | 0.23 | 1.02 | 0.3 | 1.02 | 17.0 | 0.2 | SD18R1506 | | |
| 2018R1507 | 0.47 | 0.35 | 10.70 | <0.02 | <10 | 30 | 0.08 | 0.23 | 0.23 | 1.8 | 5.71 | 2.20 | 8.0 | 0.20 | 10.90 | 0.54 | 1.64 | <0.05 | <0.02 | 0.15 | 0.03 | 2.60 | 1.50 | 0.05 | 60 | 0.28 | 0.01 | 0.34 | 8.80 | 5.00 | 13.40 | 1.90 | 0.03 | 0.06 | 0.34 | 0.20 | 0.60 | 0.40 | 24.00 | <0.01 | 0.03 | <0.02 | 0.18 | 0.02 | 0.13 | 12 | 0.6 | 0.83 | 45 | 0.5 | SD18R1507 | | |
| 2018R1508 | 0.80 | 1.54 | 13.10 | <0.02 | <10 | 70 | 0.40 | 0.71 | 0.31 | 0.69 | 22.10 | 17.0 | 29.0 | 0.81 | 44.06 | 5.00 | 0.06 | 0.02 | 0.24 | 0.04 | 0.02 | 19.10 | 11.30 | 0.22 | 79 | 0.65 | 0.02 | 0.61 | 31.50 | 93.0 | 25.0 | 5.70 | 0.01 | 0.21 | 0.51 | 1.20 | 1.40 | 20.50 | <0.01 | 0.04 | <0.02 | 0.36 | 0.08 | 0.70 | 24 | 0.12 | 6.59 | 71 | 0.6 | SD18R1508 | | | |
| 2018R1509 | 0.33 | 0.84 | 290.00 | <0.02 | <10 | 40 | 0.33 | 0.33 | 0.32 | 0.27 | 23.90 | 98.20 | 21.0 | 0.56 | 32.10 | 1.12 | 3.27 | 0.05 | 0.02 | 0.08 | 0.02 | 17.00 | 9.80 | 0.26 | 376 | 0.89 | 0.01 | 0.66 | 46.00 | 45.0 | 15.30 | 4.70 | 0.01 | 0.03 | 0.62 | 1.40 | 0.50 | 0.50 | 17.40 | <0.01 | 0.03 | 0.034 | 0.05 | 0.4 | 21 | 0.09 | 6.66 | 44 | 0.5 | SD18R1509 | | | |
| 2018R1510 | 0.11 | 0.11 | 13.10 | <0.02 | <10 | 40 | 0.22 | 0.61 | 0.24 | 0.24 | 36.20 | 6.40 | 22.0 | 0.40 | 8.00 | 3.85 | <0.05 | <0.02 | 0.41 | 0.23 | 0.06 | 4.40 | 1.30 | 0.04 | 88 | 0.33 | 0.01 | 0.34 | 15.00 | 13.00 | 33.00 | 0.30 | 0.01 | 0.14 | 0.60 | 0.40 | 0.60 | 16.20 | <0.01 | 0.04 | 0.17 | 1.40 | 0.60 | 0.42 | 32 | 0.11 | 2.26 | 45 | 0.5 | SD18R1510 | | | |
| 2018R1511 | 0.66 | 0.91 | 12.00 | <0.02 | <10 | 40 | 0.38 | 0.48 | 0.92 | 1.30 | 38.30 | 3.40 | 0.40 | 0.69 | 41.20 | 1.02 | 2.50 | 0.07 | 0.21 | 0.03 | 0.03 | 26.20 | 6.70 | 0.23 | 39 | 0.44 | 0.04 | 0.25 | 21.00 | 71.0 | 39.10 | 3.20 | 0.07 | 0.29 | 0.42 | 1.10 | 2.40 | 1.00 | 13.50 | <0.01 | 0.04 | <0.02 | 0.23 | 0.08 | 0.42 | 1.30 | 0.13 | 1.27 | 0.88 | 9.69 | 1.7 | 0.8 | SD18R1511 |
| 2018R1512 | 0.89 | 0.35 | 29.50 | <0.02 | <10 | 350 | 0.19 | 0.50 | 2.55 | 1.69 | 3.80 | 13.0 | 2.4 | 36.40 | 3.30 | 0.90 | 0.05 | 0.08 | 0.56 | 0.40 | 0.02 | 4.50 | 1.30 | 0.19 | 1760 | 3.81 | 0.02 | 0.30 | 12.00 | 16.60 | 35.0 | 1.60 | 0.01 | 0.38 | 0.69 | 1.90 | 3.70 | 0.80 | 40.00 | <0.01 | 0.04 | 0.006 | 0.13 | 0.58 | 9 | 0.29 | 4.14 | 96 | 2.7 | SD18R1512 | | | |
| 2018R1513 | 0.76 | 0.15 | 45.00 | <0.02 | <10 | 50 | 0.08 | 1.53 | 0.98 | 1.29 | 3.56 | 4.00 | 0.17 | 50.00 | 0.30 | 0.94 | 0.06 | 0.02 | 0.54 | 0.03 | 0.03 | 1.60 | 0.50 | 0.08 | 47 | 1.09 | 0.01 | 0.15 | 37.00 | 620 | 74.90 | 1.30 | 0.02 | 0.21 | 2.28 | 0.40 | 2.70 | 21.00 | 24.40 | <0.01 | 0.07 | 0.2 | 0.05 | 0.06 | 0.17 | 4 | 0.15 | 10.0 | 108 | 0.7 | SD18R1513 | | |
| 2018R1514 | 0.71 | 0.16 | 22.60 | <0.02 | <10 | 50 | 0.08 | 1.06 | 0.54 | 1.20 | 3.19 | 3.60 | 2.0 | 10.0 | 30.21 | 0.21 | 0.87 | 0.05 | <0.02 | 0.57 | 0.06 | 0.03 | 1.60 | 0.30 | 0.03 | 21 | 0.92 | 0.01 | 0.11 | 22.80 | 56.00 | 1.00 | 0.02 | 0.16 | 0.31 | 0.30 | 1.70 | 1.50 | 20.90 | <0.01 | 0.06 | <0.05 | 0.03 | 0.13 | 4 | 0.10 | 0.84 | 28 | <0.5 | SD18R1514 | | | |
| 2018R1515 | 1.11 | 0.20 | 33.30 | <0.02 | <10 | 80 | 0.07 | 1.66 | 0.15 | 1.73 | 3.71 | 4.00 | 0.4 | 42.0 | 33.01 | 1.16 | 0.05 | <0.02 | 0.61 | 0.04 | 0.06 | 1.80 | 0.60 | 0.06 | 178 | 0.60 | 0.06 | 0.71 | 0.70 | 0.20 | 38.70 | 610 | 76.60 | 3.20 | 0.04 | 0.18 | 1.92 | 0.40 | 2.70 | 21.00 | 40.00 | <0.01 | 0.11 | 0.2 | 0.09 | 0.4 | 5 | 0.18 | 0.67 | 53 | <0.5 | SD18R1515 | |
| 2018R1516 | 1.19 | 0.22 | 30.10 | <0.02 | <10 | 40 | 0.10 | 0.47 | 0.306 | 0.78 | 5.71 | 11.0 | 8.0 | 0.14 | 19.00 | 2.74 | 0.87 | <0.05 | 0.04 | 0.4 | 0.39 | 0.02 | 2.60 | 0.56 | 0.23 | 306 | 1.65 | 0.02 | 0.16 | 15.40 | 91.0 | 51.80 | 0.90 | 0.01 | 0.31 | 0.67 | 1.60 | 2.50 | 1.10 | 54.00 | <0.01 | 0.14 | <0.05 | 0.06 | 0.70 | 12 | 0.09 | 1.28 | 14.9 | 11.0 | SD18R1516 | | |
| 2018R1519 | 1.75 | 0.75 | 19.80 | <0.02 | <10 | 70 | 0.16 | 1.83 | 0.14 | 2.16 | 9.17 | 3.80 | 38.0 | 0.67 | 64.10 | 0.90 | 3.40 | <0.05 | <0.02 | 0.36 | 0.174 | 0.05 | 4.40 | 0.80 | 0.06 | 95 | 0.88 | 0.02 | 0.37 | 28.00 | 95.0 | 120.50 | 4.30 | 0.01 | 0.10 | 1.03 | 0.20 | 1.90 | 3.30 | 71.0 | <0.01 | 0.05 | <0.008 | 0.06 | 0.24 | 21 | 0.12 | 2.36 | 61 | <0.5 | SD18R1519 | | |
| 2018R1520 | 1.63 | 0.75 | 18.80 | <0.02 | <10 | 70 | 0.18 | 1.83 | 0.14 | 2.10 | 9.39 | 4.00 | 38.0 | 0.64 | 64.90 | 0.98 | 3.25 | <0.05 | <0.02 | 0.38 | 0.174 | 0.05 | 4.40 | 0.80 | 0.06 | 95 | 0.88 | 0.02 | 0.37 | 28.00 | 95.0 | 120.50 | 4.30 | 0.01 | 0.10 | 1.03 | 0.20 | 2.20 | 3.30 | 6.80 | <0.01 | 0.07 | <0.009 | 0.06 | 0.24 | 20 | 0.13 | 2.36 | 63 | <0.5 | SD18R1520 | | |
| 2018R1521 | 2.21 | 0.39 | 21.70 | <0.02 | <10 | 80 | 0.21 | 1.89 | 0.35 | 1.61 | 10.90 | 4.90 | 14.0 | 0.43 | 51.60 | 0.66 | 1.76 | 0.05 | <0.02 | 0.58 | 0.107 | 0.06 | 4.70 | 1.20 | 0.08 | 37 | 0.95 | 0.01 | 0.30 | 17.00 | 82.00 | 124.50 | 3.30 | 0.02 | 0.13 | 1.85 | 0.50 | 2.60 | 25.60 | <0.01 | 0.11 | <0.02 | 0.15 | 0.03 | 0.31 | 12 | 0.15 | 1.54 | 107 | <0.5 | SD18R1521 | | |
| 2018R1522 | 2.18 | 0.20 | 15.40 | <0.02 | <10 | 130 | 0.13 | 1.48 | 0.53 | 0.98 | 7.00 | 4.60 | 10.0 | 0.31 | 44.80 | 0.55 | 1.93 | <0.05 | <0.02 | 0.41 | 0.118 | 0.07 | 3.60 | 1.10 | 0.06 | 274 | 0.69 | 0.01 | 0.38 | 11.00 | 118.00 | 27.00 | 0.01 | 0.11 | 1.14 | 0.30 | 1.70 | 19.50 | 21.70 | <0.01 | 0.05 | <0.02 | 0.16 | 0.06 | 0.21 | 9 | 0.15 | 1.01 | 86 | <0.5 | SD18R1522 | | |
| 2018R1523 | 1.02 | 0.27 | 12.00 | <0.02 | <10 | 70 | 0.12 | 0.77 | 0.27 | 0.74 | 9.20 | 2.40 | 7.0 | 0.19 | 26.20 | 0.44 | 2.15 | <0.05 | <0.02 | 0.22 | 0.064 | 0.04 | 5.10 | 1.70 | 0.04 | 48 | 0.51 | 0.01 | 0.29 | 16.40 | 47.0 | 7.80 | 1.80 | 0.01 | 0.06 | 0.69 | 0.40 | 1.10 | 1.40 | 20.20 | <0.01 | 0.04 | <0.02 | 0.16 | 0.03 | 0.21 | 10 | 0.09 | 1.01 | 70 | <0.5 | SD18R1523 | |
| 2018R1524 | 1.42 | 0.21 | 7.00 | <0.02 | <10 | 80 | 0.09 | 0.52 | 0.78 | 1.13 | 3.88 | 4.30 | 6.0 | 0.26 | 26.10 | 0.39 | 1.04 | <0.05 | <0.02 | 0.23 | 0.045 | 0.09 | 2.90 | 1.40 | 0.08 | 112 | 0.46 | 0.01 | 0.30 | 22.80 | 97.0 | 29.50 | 2.40 | 0.02 | 0.16 | 0.46 | 0.40 | 2.10 | 1.20 | 47.90 | <0.01 | 0.03 | <0.02 | 0.13 | 0.4 | 0.13 | 0.71 | 1.11 | 0.58 | 161 | 0.5 | SD18R1524 | |
| 2018R1525 | 1.89 | 0.33 | 19.50 | <0.02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

2018 Soil Sample Results

| Sample ID | Ag ppm | Al % | As ppm | Au ppm | B ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cs ppm | Cu ppm | F % | Ga ppm | Ge ppm | Hf ppm | Hg ppm | In ppm | K % | La ppm | Li ppm | Mn ppm | Mn ppm | Mg ppm | Na % | Nb ppm | Ni ppm | P ppm | P ppm | Pb ppm | Rb ppm | Re ppm | S % | Sb ppm | Sc ppm | Se ppm | Sn ppm | Sr ppm | Ta ppm | Ta ppm | Ti % | Tl ppm | Tl ppm | U ppm | V ppm | W ppm | Zn ppm | Zr ppm | Cer sulfate | |
|------------|--------|------|--------|--------|-------|--------|--------|--------|------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|-------|--------|--------|-------|-------|--------|--------|--------|------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|-------|-------|-------|------------|------------|-------------|------------|
| 2018KTS074 | 1.62 | 40.0 | 14.90 | <0.02 | <10 | 70 | 0.15 | 0.83 | 22.7 | 0.75 | 72.3 | 44.10 | 10.0 | 0.28 | 20.09 | 0.69 | 2.40 | <0.05 | <0.02 | 0.23 | 0.073 | 0.66 | 2.30 | 0.07 | 43 | 0.46 | 0.01 | 0.30 | 23.46 | 68.0 | 58.90 | 3.10 | 0.0031 | 0.07 | 0.62 | 0.50 | 1.50 | 21.30 | <0.01 | 0.05 | <0.02 | 0.022 | 0.04 | 0.14 | 16 | 0.11 | 1.14 | 76 | <0.5 | SD18197526 | | |
| 2018KTS075 | 1.51 | 57.2 | 13.10 | <0.02 | <10 | 130 | 0.28 | 0.85 | 0.41 | 11.55 | 14.30 | 16.0 | 0.49 | 28.70 | 11.2 | 2.55 | <0.05 | <0.02 | 0.11 | 0.065 | 0.06 | 0.40 | 4.22 | 0.07 | 42 | 0.27 | 0.02 | 0.27 | 22.80 | 77.0 | 73.50 | 4.40 | 0.002 | 0.08 | 0.61 | 0.60 | 1.50 | 28.00 | <0.01 | 0.05 | <0.02 | 0.032 | 0.07 | 0.22 | 28 | 0.13 | 1.30 | 142 | <0.5 | SD18197526 | | |
| 2018KTS076 | 0.42 | 0.58 | 17.50 | <0.02 | <10 | 60 | 0.15 | 0.31 | 0.23 | 0.37 | 12.75 | 3.60 | 0.44 | 11.60 | 11.6 | 3.92 | <0.05 | <0.02 | 0.07 | 0.023 | 0.04 | 7.80 | 4.60 | 0.11 | 214 | 0.29 | <0.01 | 0.80 | 12.10 | 370 | 159.0 | 7.40 | <0.001 | 0.01 | 0.25 | 0.90 | 0.60 | 0.70 | 27.90 | <0.01 | 0.03 | 0.80 | 0.60 | 0.40 | 0.25 | 30 | 0.88 | 145 | 25 | <0.5 | SD18197526 | |
| 2018KTS077 | 0.79 | 0.40 | 8.70 | <0.02 | <10 | 50 | 0.14 | 0.58 | 0.21 | 0.50 | 4.88 | 3.90 | 17.0 | 0.33 | 17.07 | 0.87 | 2.30 | <0.05 | <0.02 | 0.13 | 0.046 | 0.40 | 3.40 | 3.30 | 0.13 | 110 | 0.37 | <0.01 | 0.55 | 18.90 | 420 | 38.90 | 3.90 | <0.001 | 0.04 | 0.39 | 0.70 | 1.10 | 1.60 | 18.80 | <0.01 | 0.02 | 0.038 | 0.05 | 0.19 | 21 | 1.00 | 1.30 | 50 | <0.5 | SD18197526 | |
| 2018KTS078 | 2.14 | 0.39 | 16.70 | <0.02 | <10 | 150 | 0.20 | 1.13 | 0.30 | 11.0 | 10.80 | 8.80 | 11.0 | 4.88 | 38.80 | 0.77 | 2.12 | <0.05 | <0.02 | 0.27 | 0.068 | 0.88 | 5.80 | 2.00 | 0.88 | 401 | 0.65 | <0.01 | 0.35 | 23.10 | 183.0 | 103.50 | 4.60 | <0.001 | 0.08 | 0.88 | 0.40 | 2.50 | 2.20 | 23.60 | <0.01 | 0.08 | <0.02 | 0.019 | 0.08 | 0.22 | 18 | 0.13 | 1.34 | 88 | <0.5 | SD18197526 |
| 2018KTS079 | 1.48 | 1.16 | 0.64 | <0.02 | <10 | 140 | 0.18 | 0.68 | 0.27 | 0.64 | 3.44 | 2.60 | 7.0 | 0.47 | 18.77 | 0.27 | 1.51 | <0.05 | <0.02 | 0.11 | 0.016 | 0.11 | 3.40 | 0.70 | 0.024 | 598 | 0.84 | <0.01 | 0.24 | 18.70 | 157.0 | 98.40 | 2.40 | <0.001 | 0.03 | 0.84 | 0.20 | 1.50 | 2.60 | 23.00 | <0.01 | 0.05 | <0.02 | 0.016 | 0.07 | 0.26 | 12 | 0.12 | 1.33 | 77 | <0.5 | SD18197526 |
| 2018KTS080 | 1.43 | 1.19 | 8.70 | <0.02 | <10 | 110 | 0.09 | 0.83 | 0.27 | 0.77 | 5.75 | 10.40 | 0.4 | 0.28 | 27.70 | 0.30 | 1.41 | <0.05 | <0.02 | 0.21 | 0.063 | 0.50 | 1.00 | 0.40 | 134 | 0.37 | <0.01 | 0.19 | 14.50 | 440 | 51.90 | 2.60 | <0.001 | 0.04 | 0.88 | 0.40 | 2.50 | 2.20 | 17.60 | <0.01 | 0.04 | 0.2 | 0.13 | 0.03 | 0.12 | 8 | 0.07 | 1.02 | 42 | <0.5 | SD18197526 | |
| 2018KTS081 | 1.57 | 0.21 | 15.20 | <0.02 | <10 | 90 | 0.09 | 1.01 | 0.20 | 0.64 | 5.01 | 3.30 | 6.0 | 0.22 | 30.05 | 0.45 | 1.47 | <0.05 | <0.02 | 0.29 | 0.080 | 0.10 | 3.70 | 1.00 | 0.05 | 243 | 0.62 | <0.01 | 0.22 | 29.80 | 720 | 59.50 | 4.20 | <0.001 | 0.07 | 0.87 | 0.50 | 2.00 | 4.70 | 18.40 | <0.01 | 0.05 | 0.2 | 0.14 | 0.03 | 0.18 | 9 | 0.12 | 0.84 | 70 | <0.5 | SD18197526 |
| 2018KTS082 | 1.52 | 0.24 | 10.60 | <0.02 | <10 | 80 | 0.14 | 0.37 | 0.25 | 1.12 | 8.05 | 3.90 | 6.0 | 0.30 | 45.20 | 0.38 | 1.78 | <0.05 | <0.02 | 0.25 | 0.103 | 0.07 | 4.40 | 0.60 | 0.04 | 84 | 0.62 | <0.01 | 0.23 | 22.80 | 640 | 99.70 | 3.00 | <0.001 | 0.06 | 0.89 | 0.40 | 2.10 | 2.50 | 22.00 | <0.01 | 0.05 | <0.02 | 0.013 | 0.03 | 0.23 | 8 | 0.10 | 1.05 | 84 | <0.5 | SD18197526 |
| 2018KTS083 | 0.97 | 0.27 | 11.10 | <0.02 | <10 | 160 | 0.19 | 0.48 | 0.28 | 1.50 | 6.80 | 6.00 | 4.0 | 0.77 | 40.47 | 0.53 | 0.05 | <0.02 | 0.08 | 0.118 | 0.11 | 3.40 | 0.70 | 0.024 | 598 | 0.84 | <0.01 | 0.24 | 18.70 | 157.0 | 98.40 | 2.40 | <0.001 | 0.03 | 0.84 | 0.20 | 1.50 | 2.60 | 23.00 | <0.01 | 0.05 | <0.02 | 0.016 | 0.07 | 0.26 | 12 | 0.12 | 1.33 | 77 | <0.5 | SD18197526 | |
| 2018KTS084 | 0.26 | 0.80 | 5.80 | <0.02 | <10 | 80 | 0.17 | 0.19 | 0.01 | 0.64 | 3.44 | 3.40 | 14.0 | 0.38 | 5.40 | 0.88 | 4.45 | <0.05 | <0.02 | 0.07 | 0.015 | 0.04 | 3.70 | 6.80 | 0.08 | 330 | 0.39 | <0.01 | 0.83 | 9.00 | 340 | 9.80 | 5.50 | <0.001 | 0.01 | 0.19 | 0.80 | 1.00 | 10.50 | <0.01 | 0.04 | 0.44 | 0.44 | 0.44 | 0.44 | 28 | 25 | 0.06 | 1.04 | 27 | <0.5 | SD18197526 |
| 2018KTS085 | 0.71 | 0.80 | 10.10 | <0.02 | <10 | 130 | 0.25 | 0.40 | 0.58 | 0.64 | 16.25 | 9.00 | 2.5 | 0.65 | 20.40 | 1.56 | 4.46 | <0.05 | <0.02 | 0.11 | 0.028 | 0.07 | 6.80 | 7.60 | 0.21 | 585 | 0.44 | 0.01 | 0.81 | 1.90 | 830 | 25.60 | 9.60 | <0.001 | 0.06 | 0.29 | 1.10 | 0.80 | 34.40 | <0.01 | 0.05 | 0.5 | 0.56 | 0.05 | 0.27 | 39 | 0.09 | 1.69 | 91 | 0.5 | SD18197526 | |
| 2018KTS086 | 0.40 | 0.55 | 8.70 | <0.02 | <10 | 50 | 0.13 | 0.26 | 0.21 | 0.30 | 10.00 | 4.00 | 10.0 | 0.40 | 9.00 | 1.53 | 3.86 | <0.05 | <0.02 | 0.08 | 0.018 | 0.10 | 4.40 | 4.20 | 0.13 | 316 | <0.02 | 0.89 | 11.00 | 660 | 144.0 | 6.70 | <0.001 | 0.03 | 0.20 | 0.90 | 0.60 | 0.70 | 13.60 | <0.01 | 0.03 | 0.8 | 0.63 | 0.03 | 0.4 | 0.28 | 35 | 0.07 | 1.24 | 42 | <0.5 | SD18197526 |
| 2018KTS087 | 0.36 | 0.35 | 6.90 | <0.02 | <10 | 30 | 0.06 | 0.26 | 0.10 | 0.14 | 9.67 | 2.00 | 10.0 | 0.38 | 5.70 | 0.59 | 2.77 | <0.05 | <0.02 | 0.05 | 0.016 | 0.02 | 4.60 | 2.50 | 0.07 | 117 | 0.22 | <0.01 | 0.65 | 6.40 | 280 | 15.40 | 4.40 | <0.001 | 0.02 | 0.21 | 0.60 | 0.50 | 0.70 | 8.40 | <0.01 | 0.01 | 0.4 | 0.037 | 0.04 | 0.19 | 16 | 0.05 | 1.88 | 13 | <0.5 | SD18197526 |
| 2018KTS088 | 0.29 | 0.50 | 9.70 | <0.02 | <10 | 30 | 0.11 | 0.27 | 0.08 | 0.12 | 9.63 | 4.50 | 16.0 | 0.38 | 7.20 | 1.12 | 3.38 | <0.05 | <0.02 | 0.08 | 0.018 | 0.03 | 5.30 | 3.40 | 0.07 | 126 | 0.24 | <0.01 | 0.81 | 9.40 | 320 | 14.60 | 4.40 | <0.001 | 0.03 | 0.24 | 0.70 | 0.40 | 0.60 | 9.80 | <0.01 | 0.03 | 0.7 | 0.48 | 0.03 | 0.7 | 27 | 0.07 | 0.95 | 73 | <0.5 | SD18197526 |
| 2018KTS089 | 0.33 | 0.79 | 8.30 | <0.02 | <10 | 40 | 0.20 | 0.28 | 0.12 | 0.10 | 15.05 | 8.50 | 22.0 | 0.65 | 10.10 | 1.32 | 3.92 | <0.05 | <0.02 | 0.06 | 0.019 | 0.04 | 8.00 | 7.10 | 0.20 | 671 | 0.27 | <0.01 | 0.92 | 14.40 | 310 | 11.50 | 6.50 | <0.001 | 0.02 | 0.19 | 1.20 | 0.50 | 0.60 | 10.10 | <0.01 | 0.03 | 0.8 | 0.503 | 0.05 | 0.29 | 27 | 0.07 | 1.87 | 36 | <0.5 | SD18197526 |
| 2018KTS090 | 0.28 | 0.19 | 7.80 | <0.02 | <10 | 60 | 0.05 | 0.36 | 0.14 | 0.46 | 6.31 | 1.90 | 10.0 | 0.24 | 11.60 | 0.58 | 1.66 | <0.05 | <0.02 | 0.06 | 0.023 | 0.03 | 3.20 | 1.00 | 0.03 | 91 | 0.21 | <0.01 | 0.36 | 1.90 | 170 | 24.0 | 3.10 | <0.001 | 0.03 | 0.27 | 0.40 | 0.80 | 11.20 | <0.01 | 0.02 | 0.5 | 0.25 | 0.03 | 0.13 | 19 | 0.05 | 0.61 | 30 | <0.5 | SD18197526 | |
| 2018KTS091 | 0.49 | 0.23 | 13.40 | <0.02 | <10 | 30 | 0.05 | 0.54 | 0.13 | 0.18 | 6.37 | 1.90 | 6.0 | 0.21 | 15.90 | 0.45 | 1.75 | <0.05 | <0.02 | 0.14 | 0.037 | 0.02 | 4.20 | 1.10 | 0.04 | 35 | 0.37 | <0.01 | 0.43 | 13.00 | 260 | 32.90 | 1.50 | <0.001 | 0.05 | 0.58 | 0.40 | 1.10 | 10.10 | <0.01 | 0.02 | 0.8 | 0.25 | 0.02 | 0.3 | 0.18 | 14 | 0.08 | 1.79 | 16 | <0.5 | SD18197526 |
| 2018KTS092 | 0.96 | 0.65 | 11.80 | <0.02 | <10 | 100 | 0.20 | 0.48 | 0.29 | 0.99 | 12.85 | 11.20 | 17.0 | 0.55 | 25.90 | 0.92 | 2.66 | <0.05 | <0.02 | 0.15 | 0.035 | 0.05 | 8.70 | 4.00 | 0.12 | 754 | 0.53 | <0.01 | 0.43 | 16.40 | 370 | 34.80 | 4.10 | <0.001 | 0.05 | 0.46 | 0.80 | 1.10 | 0.90 | 18.30 | <0.01 | 0.04 | 0.2 | 0.023 | 0.05 | 0.31 | 23 | 0.09 | 1.68 | 46 | <0.5 | SD18197526 |
| 2018KTS093 | 0.31 | 1.62 | 7.60 | <0.02 | <10 | 90 | 0.58 | 0.18 | 0.22 | 0.16 | 74.70 | 7.40 | 35.0 | 0.75 | 26.20 | 1.28 | 3.80 | 0.08 | 0.02 | 0.13 | 0.018 | 0.05 | 24.60 | 8.80 | 0.24 | 1340 | 0.58 | <0.01 | 0.67 | 23.80 | 400 | 7.70 | 5.20 | <0.001 | 0.03 | 0.13 | 2.30 | 0.60 | 0.40 | 13.30 | <0.01 | 0.03 | 0.5 | 0.099 | 0.08 | 0.97 | 30 | 0.08 | 0.90 | 20 | <0.5 | SD18197526 |
| 2018KTS094 | 0.84 | 0.25 | 10.60 | <0.02 | <10 | 50 | 0.10 | 0.69 | 0.15 | 0.77 | 7.77 | 12.0 | 12.0 | 0.24 | 20.60 | 0.68 | 1.80 | <0.05 | <0.02 | 0.10 | 0.049 | 0.02 | 4.00 | 1.80 | 0.05 | 97 | 0.36 | <0.01 | 0.39 | 14.40 | 290 | 47.0 | 2.60 | <0.001 | 0.04 | 0.45 | 0.60 | 0.80 | 1.40 | 13.20 | <0.01 | 0.04 | 0.4 | 0.027 | 0.04 | 0.15 | 19 | 0.11 | 0.86 | 28 | <0.5 | SD18197526 |
| 2018KTS095 | 0.67 | 0.33 | 12.30 | <0.02 | <10 | 70 | 0.14 | 0.64 | 0.12 | 0.27 | 7.67 | 1.40 | 13.0 | 0.17 | 13.60 | 0.68 | 2.88 | <0.05 | <0.02 | 0.07 | 0.044 | 0.03 | 6.20 | 1.20 | 0.03 | 55 | 0.33 | <0.01 | 0.27 | 9.10 | 310 | 40.50 | 2.10 | <0.001 | 0.02 | 0.45 | 0.40 | 0.80 | 12.0 | 17.60 | <0.01 | 0.03 | <0.02 | 0.28 | 0.05 | 0.15 | 21 | 0.09 | 1.31 | 15 | <0.5 | SD18197526 |
| 2018KTS096 | 0.65 | 0.43 | 27.40 | <0.02 | <10 | 100 | 0.15 | 1.51 | 0.19 | 1.28 | 7.81 | 3.40 | 15.0 | 0.33 | 42.50 | 0.78 | 2.74 | <0.05 | <0.02 | 0.24 | 0.114 | 0.05 | 5.10 | 2.50 | 0.06 | 62 | 0.57 | <0.01 | 0.38 | 30.60 | 550 | 91.60 | 5.00 | <0.001 | 0.06 | 0.99 | 0.50 | 1.70 | 2.30 | 25.00 | <0.01 | 0.05 | <0.02 | 0.026 | 0.06 | 0.21 | 18 | 0.13 | 1.10 | 74 | <0.5 | SD18197526 |
| 2018KTS097 | 1.81 | 0.16 | 14.70 | <0.02 | <10 | 100 | 0.10 | 0.20 | 0.51 | 1.61 | 4.44 | 4.40 | 6.0 | 0.21 | 28.05 | 0.35 | 1.05 | <0.05 | <0.02 | 0.24 | 0.072 | 0.11 | 4.20 | 3.50 | 0.13 | 141 | 0.64 | <0.01 | 0.63 | 26.60 | 720 | 71.60 | 5.40 | <0.001 | 0.08 | 1.08 | 0.80 | 1.60 | 9.90 | 25.10 | <0.01 | 0.06 | 0.22 | 39 | 0.11 | 1.18 | 60 | <0.5 | SD18197526 | | | |
| 201 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

2018 Rock Sample Results

| Sample ID | Date | East N83 Z17 | North N83 Z17 | Co % | Cu % | Ni % | Au ppm | Pt ppm | Pd ppm | Ag ppm | Certificate |
|------------|-----------|-----------------|------------------|-------|-------|-------|--------|--------|--------|--------|-------------|
| 2018KBP031 | 9-Aug-18 | 595757 | 5244887 | 0.014 | 0.003 | 0.019 | 0.0005 | <0.005 | 0.001 | 1.1 | SD18196580 |
| 2018KBP032 | 9-Aug-18 | 595767 | 5244889 | 0.007 | 0.008 | 0.001 | 0.0005 | <0.005 | 0.001 | 0.1 | SD18196580 |
| 2018KBP033 | 9-Aug-18 | 595767 | 5244889 | 0.424 | 0.001 | 0.030 | 0.0290 | <0.005 | 0.001 | 0.1 | SD18196580 |
| 2018KBP034 | 9-Aug-18 | 595767 | 5244889 | 0.825 | 0.001 | 0.046 | 0.0340 | <0.005 | 0.000 | 0.1 | SD18196580 |
| 2018KBP035 | 9-Aug-18 | 595580 | 5245920 | 0.006 | 0.016 | 0.008 | 0.0040 | <0.005 | 0.000 | 0.1 | SD18196580 |
| 2018KBP036 | 9-Aug-18 | 595580 | 5245920 | 0.004 | 0.005 | 0.001 | 0.0005 | <0.005 | 0.001 | 0.1 | SD18196580 |
| 2018KBP037 | 9-Aug-18 | 595580 | 5245920 | 0.191 | 0.002 | 0.019 | 0.0005 | <0.005 | 0.001 | 0.1 | SD18196580 |
| 2018KBP038 | 8-Aug-18 | 595840 | 5245955 | 0.004 | 0.018 | 0.007 | 0.0010 | 0.013 | 0.008 | 0.1 | SD18196580 |
| 2018KBP039 | 8-Aug-18 | 595840 | 5245955 | 0.005 | 0.014 | 0.012 | 0.0005 | 0.010 | 0.008 | 0.1 | SD18196580 |
| 2018KBP040 | 8-Aug-18 | 595943 | 5246018 | 2.020 | 0.022 | 0.158 | 0.0350 | <0.005 | 0.001 | 13.1 | SD18196580 |
| 2018KBP041 | 8-Aug-18 | 595943 | 5246018 | 0.070 | 0.011 | 0.011 | 0.0100 | <0.005 | 0.000 | 1.3 | SD18196580 |
| 2018KBP042 | 8-Aug-18 | 595943 | 5246018 | 0.611 | 0.010 | 0.095 | 0.0260 | <0.005 | 0.000 | 4.1 | SD18196580 |
| 2018KBP043 | 8-Aug-18 | 596471 | 5245268 | 0.017 | 0.002 | 0.001 | 0.0005 | <0.005 | 0.001 | 0.1 | SD18196580 |
| 2018KBP044 | 8-Aug-18 | 596471 | 5245268 | 0.007 | 0.003 | 0.001 | 0.0005 | <0.005 | 0.000 | 0.1 | SD18196580 |
| 2018KBP045 | 10-Aug-18 | 595943 | 5246018 | 0.009 | 0.053 | 0.009 | 0.0005 | <0.005 | 0.001 | 0.6 | SD18196580 |
| 2018KBP046 | 10-Aug-18 | 595943 | 5246018 | 0.007 | 0.041 | 0.009 | 0.0005 | <0.005 | 0.001 | 0.2 | SD18196580 |
| 2018KBP047 | 10-Aug-18 | 595642 | 5245917 | 0.005 | 0.043 | 0.008 | 0.0005 | 0.009 | 0.009 | 0.1 | SD18196580 |
| 2018KBP048 | 10-Aug-18 | 595642 | 5245917 | 0.001 | 0.010 | 0.002 | 0.0005 | <0.005 | 0.000 | 0.1 | SD18196580 |
| 2018KBP049 | 8-Aug-18 | 596063 | 5245917 | 0.037 | 0.009 | 0.005 | 0.0005 | <0.005 | 0.000 | 0.1 | SD18196580 |
| 2018KBP050 | 8-Aug-18 | 596063 | 5245917 | 0.030 | 0.018 | 0.006 | 0.0005 | <0.005 | 0.001 | 0.1 | SD18196580 |
| 2018KBP051 | 8-Aug-18 | 596063 | 5245917 | 0.065 | 0.025 | 0.010 | 0.0005 | <0.005 | 0.001 | 0.2 | SD18196580 |
| 2018KBP052 | 8-Aug-18 | 596063 | 5245917 | 0.035 | 0.015 | 0.010 | 0.0010 | <0.005 | 0.000 | 0.2 | SD18196580 |
| 2018KBP053 | 9-Aug-18 | 596248 | 5245448 | 0.005 | 0.016 | 0.005 | 0.0005 | <0.005 | 0.000 | 0.1 | SD18196580 |
| 2018KBP054 | 9-Aug-18 | 596248 | 5245448 | 0.001 | 0.002 | 0.001 | 0.0005 | <0.005 | 0.001 | 0.1 | SD18196580 |
| 2018KBP055 | 8-Aug-18 | 596083 | 5245907 | 0.001 | 0.009 | 0.001 | 0.0005 | <0.005 | 0.000 | 0.2 | SD18196580 |
| 2018KBP056 | 8-Aug-18 | 596083 | 5245907 | 0.007 | 0.004 | 0.001 | 0.0005 | <0.005 | 0.000 | 0.1 | SD18196580 |
| 2018KBP057 | 8-Aug-18 | 596083 | 5245907 | 0.007 | 0.033 | 0.003 | 0.0005 | <0.005 | 0.000 | 0.1 | SD18196580 |
| 2018KBP058 | 9-Aug-18 | 595708 | 5244890 | 0.006 | 0.043 | 0.005 | 0.0005 | <0.005 | 0.001 | 0.2 | SD18196580 |
| 2018KBP059 | 9-Aug-18 | 595708 | 5244890 | 0.001 | 0.047 | 0.002 | 0.0005 | <0.005 | 0.001 | 0.1 | SD18196580 |
| 2018KBP060 | 9-Aug-18 | 595708 | 5244890 | 0.005 | 0.007 | 0.009 | 0.0005 | <0.005 | 0.001 | 0.1 | SD18196580 |
| 2018KBP061 | 9-Aug-18 | 595767 | 5244889 | 0.006 | 0.012 | 0.004 | 0.3660 | <0.005 | 0.001 | 0.1 | SD18196580 |

2018 Rock Sample Results

| Sample ID | Date | East N83 Z17 | North N83 Z17 | Al2O3 % | As % | CaO % | Co % | Cr % | Cu % | Fe % | Fe2O3 % | K % | MgO % | MnO % | Ni % | Pb % | S % | SiO2 % | TiO2 % | Zn % | Au ppm | Pt ppm | Pd ppm | Ag ppm | Certificate |
|-----------|----------|--------------|---------------|---------|-------|-------|-------|-------|--------|-------|---------|-----|-------|-------|--------|-------|------|--------|--------|--------|--------|--------|--------|--------|-------------|
| 18KRP601 | 2-Oct-18 | 596248 | 5245439 | 15.85 | 0.27 | 8.09 | 0.190 | <0.01 | 0.002 | 0.86 | 1.23 | 0.3 | 0.33 | 0.07 | 0.018 | <0.01 | 0.48 | 58.8 | 0.58 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD18249803 |
| 18KRP602 | 2-Oct-18 | 596240 | 5245454 | 13.10 | 0.04 | 12.60 | 0.031 | <0.01 | 0.004 | 2.30 | 3.28 | 0.4 | 3.11 | 0.70 | 0.010 | <0.01 | 0.26 | 46.8 | 0.68 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD18249803 |
| 18KRP603 | 3-Oct-18 | 596024 | 5245928 | 15.60 | 0.03 | 1.72 | 0.018 | <0.01 | 0.006 | 1.34 | 1.91 | 0.8 | 2.19 | 0.07 | 0.003 | <0.01 | 0.05 | 67.8 | 0.61 | <0.002 | <0.001 | <0.005 | <0.001 | 0.7 | SD18249803 |
| 18KRP604 | 3-Oct-18 | 596082 | 5245900 | 13.75 | 0.01 | 8.83 | 0.016 | <0.01 | 0.107 | 1.78 | 2.54 | 0.9 | 3.59 | 0.46 | <0.002 | <0.01 | 0.35 | 50.5 | 0.38 | 0.002 | 0.004 | <0.005 | <0.001 | 0.5 | SD18249803 |
| 18KRP605 | 3-Oct-18 | 595956 | 5245990 | 14.60 | 0.04 | 11.20 | 0.039 | <0.01 | 0.004 | 0.64 | 0.92 | 0.3 | 0.52 | 0.13 | 0.005 | <0.01 | 0.47 | 53.9 | 0.41 | <0.002 | 0.004 | <0.005 | 0.001 | 0.3 | SD18249803 |
| 18KRP606 | 3-Oct-18 | 595577 | 5242908 | 10.65 | 0.03 | 0.25 | 0.012 | 0.01 | 0.062 | 12.15 | 17.40 | 0.4 | 6.65 | 0.34 | 0.005 | <0.01 | 0.09 | 56.7 | 0.68 | 0.003 | 0.038 | <0.005 | <0.001 | <0.2 | SD18249803 |
| 18KRP607 | 3-Oct-18 | 595809 | 5246087 | 11.65 | <0.01 | 16.35 | 0.015 | <0.01 | 0.003 | 0.95 | 1.35 | 1.2 | 0.92 | 0.12 | <0.002 | <0.01 | 0.30 | 50.9 | 0.33 | <0.002 | 0.001 | <0.005 | <0.001 | <0.2 | SD18249803 |
| 18MAP075 | 2-Oct-18 | 596240 | 5245441 | 15.30 | 0.56 | 7.08 | 0.401 | <0.01 | 0.002 | 1.14 | 1.63 | 0.4 | 0.12 | 0.06 | 0.044 | <0.01 | 1.20 | 60.5 | 0.48 | <0.002 | 0.004 | <0.005 | <0.001 | 0.4 | SD18249803 |
| 18MAP076 | 2-Oct-18 | 596244 | 5245451 | 16.40 | 0.02 | 6.88 | 0.026 | <0.01 | 0.004 | 0.74 | 1.05 | 0.2 | 0.23 | 0.11 | <0.002 | <0.01 | 0.30 | 59.0 | 0.44 | <0.002 | 0.001 | <0.005 | <0.001 | <0.2 | SD18249803 |
| 18MAP077 | 2-Oct-18 | 596060 | 5245915 | 15.15 | 0.06 | 7.95 | 0.036 | <0.01 | 0.026 | 0.69 | 0.99 | 0.6 | 0.86 | 0.08 | 0.003 | <0.01 | 0.18 | 59.5 | 0.43 | <0.002 | <0.001 | <0.005 | <0.001 | 0.2 | SD18249803 |
| 18MAP078 | 3-Oct-18 | 595640 | 5245907 | 15.30 | 0.01 | 10.95 | 0.004 | <0.01 | <0.002 | 0.97 | 1.39 | 0.2 | 0.69 | 0.12 | <0.002 | <0.01 | 0.02 | 55.4 | 0.61 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD18249803 |
| 18MAP079 | 3-Oct-18 | 595581 | 5245888 | 10.80 | 0.01 | 0.46 | 0.002 | <0.01 | 0.004 | 0.74 | 1.05 | 0.3 | 0.40 | 0.02 | <0.002 | <0.01 | 0.02 | 80.4 | 0.30 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD18249803 |

2018 Drill Hole Sample Results

| Hole ID | Sample ID | From (m) | To (m) | Interval (m) | QA/QC | Co % | Cu % | Ni % | Au ppm | Pt ppm | Pd ppm | Ag ppm | Certificate |
|---------|-----------|----------|--------|--------------|-------|--------|--------|--------|--------|--------|--------|--------|-------------|
| 18HC01 | S886001 | 5.12 | 7 | 1.88 | | 0.009 | 0.015 | 0.006 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886002 | 7 | 9 | 2 | | 0.007 | 0.012 | 0.004 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886003 | 9 | 11 | 2 | | 0.004 | 0.012 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886004 | 11 | 13 | 2 | | 0.006 | 0.011 | 0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886005 | | | | Std | 0.097 | 0.303 | 0.017 | NSS | NSS | NSS | 0.2 | SD19009890 |
| 18HC01 | S886006 | 13 | 14 | 1 | | 0.007 | 0.013 | 0.002 | <0.001 | <0.005 | <0.001 | 0.2 | SD19009890 |
| 18HC01 | S886007 | 14 | 16 | 2 | | 0.007 | 0.016 | 0.002 | <0.001 | <0.005 | <0.001 | 0.2 | SD19009890 |
| 18HC01 | S886008 | 18 | 20 | 2 | | 0.006 | 0.007 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886009 | 20 | 21 | 1 | | 0.006 | 0.006 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886010 | | | | Blank | <0.002 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886011 | 21 | 22 | 1 | | 0.005 | 0.004 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886012 | 22 | 23 | 1 | | 0.007 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886013 | 23 | 24 | 1 | | 0.008 | 0.004 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886014 | 24 | 25 | 1 | | 0.011 | 0.002 | 0.006 | 0.003 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886015 | 25 | 26 | 1 | | 0.006 | 0.003 | 0.006 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886016 | 26 | 27 | 1 | | 0.005 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886017 | 26 | 27 | 1 | Dup | 0.006 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886018 | 27 | 28 | 1 | | 0.003 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886019 | 28 | 29 | 1 | | 0.005 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | 0.4 | SD19009890 |
| 18HC01 | S886020 | 29 | 30 | 1 | | 0.007 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886021 | 30 | 32 | 2 | | 0.003 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886022 | 32 | 34 | 2 | | 0.006 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886023 | 34 | 35 | 1 | | 0.002 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886024 | 35 | 36 | 1 | | 0.003 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886025 | | | | Std | 0.100 | 0.306 | 0.013 | 0.039 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886026 | 36 | 37.1 | 1.1 | | 0.007 | <0.002 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC01 | S886027 | 37.1 | 39 | 1.9 | | 0.004 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886028 | 47.8 | 49.8 | 2 | | 0.003 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886029 | 49.8 | 51.8 | 2 | | 0.002 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886030 | | | | Blank | 0.002 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |

2018 Drill Hole Sample Results

| Hole ID | Sample ID | From (m) | To (m) | Interval (m) | QA/QC | Co % | Cu % | Ni % | Au ppm | Pt ppm | Pd ppm | Ag ppm | Certificate |
|---------|-----------|----------|--------|--------------|-------|--------|--------|--------|--------|--------|--------|--------|-------------|
| 18HC01 | S886031 | 51.8 | 52.8 | 1 | | 0.004 | <0.002 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC01 | S886032 | 52.8 | 53.8 | 1 | | 0.002 | 0.009 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886033 | 53.8 | 54.8 | 1 | | 0.004 | 0.003 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC01 | S886034 | 54.8 | 55.8 | 1 | | 0.003 | 0.005 | <0.002 | <0.001 | <0.005 | <0.001 | 0.3 | SD19009890 |
| 18HC01 | S886035 | 55.8 | 56.8 | 1 | | 0.005 | 0.007 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886036 | 56.8 | 58.8 | 2 | | 0.002 | 0.005 | 0.003 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886037 | 56.8 | 58.8 | 2 | Dup | <0.002 | 0.004 | 0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886038 | 63 | 65 | 2 | | 0.002 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886039 | 65 | 66 | 1 | | <0.002 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886040 | 66 | 67 | 1 | | 0.006 | 0.011 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC01 | S886041 | 67 | 68 | 1 | | <0.002 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886042 | 68 | 69 | 1 | | <0.002 | 0.006 | 0.002 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC01 | S886043 | 69 | 71 | 2 | | <0.002 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886044 | 73 | 75 | 2 | | 0.005 | 0.002 | 0.004 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC01 | S886045 | | | | Std | 0.097 | 0.312 | 0.019 | 0.049 | <0.005 | 0.003 | 0.3 | SD19009890 |
| 18HC01 | S886046 | 75 | 76 | 1 | | <0.002 | 0.019 | 0.003 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC01 | S886047 | 76 | 77 | 1 | | <0.002 | 0.010 | 0.005 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC01 | S886048 | 77 | 79 | 2 | | 0.003 | 0.003 | <0.002 | <0.001 | <0.005 | 0.002 | <0.2 | SD19009890 |
| 18HC02 | S886049 | 3.3 | 3.8 | 0.5 | | 0.004 | 0.017 | 0.005 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC02 | S886050 | 5.45 | 5.95 | 0.5 | | 0.006 | 0.010 | 0.005 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC02 | S886051 | 14.5 | 16.5 | 2 | | 0.004 | 0.011 | 0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC02 | S886052 | 16.5 | 17.5 | 1 | | 0.003 | 0.013 | <0.002 | <0.001 | 0.008 | 0.001 | <0.2 | SD19009890 |
| 18HC02 | S886053 | 17.5 | 18.5 | 1 | | 0.002 | 0.012 | 0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC02 | S886054 | 18.5 | 19.5 | 1 | | 0.003 | 0.005 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC02 | S886055 | 18.5 | 19.5 | 1 | Dup | 0.003 | 0.006 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC02 | S886056 | 19.5 | 20.5 | 1 | | 0.005 | 0.005 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC02 | S886057 | 20.5 | 21.5 | 1 | | 0.006 | 0.004 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC02 | S886058 | 21.5 | 22.5 | 1 | | 0.005 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC02 | S886059 | 22.5 | 23.5 | 1 | | 0.003 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC02 | S886060 | 23.5 | 24.5 | 1 | | 0.004 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |

2018 Drill Hole Sample Results

| Hole ID | Sample ID | From (m) | To (m) | Interval (m) | QA/QC | Co % | Cu % | Ni % | Au ppm | Pt ppm | Pd ppm | Ag ppm | Certificate |
|---------|-----------|----------|--------|--------------|-------|--------|--------|--------|--------|--------|--------|--------|-------------|
| 18HC02 | S886061 | 24.5 | 25.5 | 1 | | 0.006 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC02 | S886062 | 25.5 | 26.5 | 1 | | 0.004 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC02 | S886063 | 26.5 | 27.5 | 1 | | 0.003 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC02 | S886064 | 27.5 | 28.5 | 1 | | 0.005 | 0.002 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC02 | S886065 | | | | Std | 0.103 | 0.308 | 0.019 | 0.035 | 0.018 | 0.001 | 0.3 | SD19009890 |
| 18HC02 | S886066 | 28.5 | 29.5 | 1 | | 0.004 | 0.005 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC02 | S886067 | 29.5 | 30.5 | 1 | | 0.003 | 0.005 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC02 | S886068 | 30.5 | 31.5 | 1 | | 0.004 | 0.004 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC02 | S886069 | 31.5 | 32.5 | 1 | | 0.003 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC02 | S886070 | | | | Blank | <0.002 | <0.002 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC02 | S886071 | 32.5 | 33.5 | 1 | | 0.003 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC02 | S886072 | 33.5 | 35.5 | 2 | | <0.002 | 0.002 | <0.002 | 0.004 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC02 | S886073 | 35.5 | 36 | 0.5 | | 0.002 | 0.009 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC02 | S886074 | 46 | 48 | 2 | | 0.005 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC02 | S886075 | 46 | 48 | 2 | Dup | 0.003 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC02 | S886076 | 48 | 49 | 1 | | <0.002 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC02 | S886077 | 49 | 50 | 1 | | 0.003 | <0.002 | <0.002 | <0.001 | <0.005 | 0.002 | <0.2 | SD19009890 |
| 18HC02 | S886078 | 50 | 51 | 1 | | 0.005 | <0.002 | 0.006 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC02 | S886079 | 51 | 52 | 1 | | 0.005 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC02 | S886080 | | | | Blank | <0.002 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC02 | S886081 | 52 | 53 | 1 | | 0.004 | 0.003 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC02 | S886082 | 53 | 54 | 1 | | 0.003 | 0.009 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC02 | S886083 | 54 | 56 | 2 | | 0.005 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC02 | S886084 | 66 | 67 | 1 | | 0.005 | 0.005 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC02 | S886085 | | | | Std | 0.105 | 0.307 | 0.017 | 0.035 | <0.005 | 0.006 | 0.2 | SD19009890 |
| 18HC02 | S886086 | 67 | 68 | 1 | | 0.006 | 0.004 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC02 | S886087 | 68 | 69 | 1 | | 0.006 | 0.004 | 0.020 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC02 | S886088 | 83.45 | 84.45 | 1 | | 0.031 | 0.006 | 0.005 | 0.002 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC02 | S886089 | 89.45 | 91.45 | 2 | | 0.011 | 0.011 | 0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC02 | S886090 | | | | Blank | <0.002 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |

2018 Drill Hole Sample Results

| Hole ID | Sample ID | From (m) | To (m) | Interval (m) | QA/QC | Co % | Cu % | Ni % | Au ppm | Pt ppm | Pd ppm | Ag ppm | Certificate |
|---------|-----------|----------|--------|--------------|-------|--------|--------|--------|--------|--------|--------|--------|-------------|
| 18HC02 | S886091 | 94.33 | 95.02 | 0.69 | | 0.013 | 0.015 | 0.003 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC03 | S886092 | 9 | 9.6 | 0.6 | | 0.007 | 0.016 | 0.004 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC03 | S886093 | 11.8 | 13 | 1.2 | | 0.003 | 0.016 | 0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC03 | S886094 | 13 | 15 | 2 | | 0.002 | 0.017 | 0.006 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC03 | S886095 | 13 | 15 | 2 | Dup | 0.005 | 0.015 | 0.005 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC03 | S886096 | 15 | 16 | 1 | | 0.004 | 0.013 | 0.003 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC03 | S886097 | 16 | 17 | 1 | | 0.002 | 0.014 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC03 | S886098 | 17 | 18 | 1 | | 0.003 | 0.006 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC03 | S886099 | 18 | 19 | 1 | | <0.002 | 0.006 | 0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC03 | S886100 | 19 | 20 | 1 | | 0.003 | 0.005 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC03 | S886101 | 20 | 21 | 1 | | 0.002 | 0.007 | <0.002 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC03 | S886102 | 21 | 22 | 1 | | 0.003 | 0.002 | <0.002 | 0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC03 | S886103 | 22 | 23 | 1 | | <0.002 | 0.002 | 0.004 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC03 | S886104 | 23 | 24 | 1 | | 0.003 | 0.002 | <0.002 | 0.004 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC03 | S886105 | | | | Std | 0.096 | 0.298 | 0.016 | 0.055 | <0.005 | 0.007 | 0.2 | SD19009890 |
| 18HC03 | S886106 | 24 | 25 | 1 | | <0.002 | 0.003 | <0.002 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC03 | S886107 | 25 | 26 | 1 | | 0.002 | <0.002 | 0.003 | 0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC03 | S886108 | 26 | 27 | 1 | | <0.002 | 0.002 | 0.002 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC03 | S886109 | 27 | 28 | 1 | | 0.003 | 0.002 | 0.005 | 0.002 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC03 | S886110 | 28 | 29 | 1 | | <0.002 | 0.007 | <0.002 | <0.001 | <0.005 | 0.001 | 0.2 | SD19009890 |
| 18HC03 | S886111 | 29 | 30 | 1 | | <0.002 | 0.002 | 0.003 | <0.001 | <0.005 | 0.001 | 0.2 | SD19009890 |
| 18HC03 | S886112 | 30 | 31 | 1 | | <0.002 | 0.003 | 0.002 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC03 | S886113 | 31 | 32 | 1 | | 0.002 | 0.006 | <0.002 | 0.002 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC03 | S886114 | 31 | 33 | 2 | | <0.002 | 0.002 | 0.002 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC03 | S886115 | 33 | 34 | 1 | | <0.002 | 0.002 | 0.002 | 0.002 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC03 | S886116 | 33 | 34 | 1 | Dup | <0.002 | 0.002 | <0.002 | 0.002 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC03 | S886117 | 34 | 35 | 1 | | <0.002 | 0.008 | 0.003 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC03 | S886118 | 35 | 36 | 1 | | <0.002 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC03 | S886119 | 36 | 37 | 1 | | <0.002 | <0.002 | 0.003 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC03 | S886120 | 37 | 38 | 1 | | <0.002 | 0.002 | 0.005 | <0.001 | <0.005 | 0.002 | <0.2 | SD19009890 |

2018 Drill Hole Sample Results

| Hole ID | Sample ID | From (m) | To (m) | Interval (m) | QA/QC | Co % | Cu % | Ni % | Au ppm | Pt ppm | Pd ppm | Ag ppm | Certificate |
|---------|-----------|----------|--------|--------------|-------|--------|--------|--------|--------|--------|--------|--------|-------------|
| 18HC03 | S886121 | 38 | 39 | 1 | | 0.002 | <0.002 | <0.002 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC03 | S886122 | 39 | 40 | 1 | | <0.002 | 0.003 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC03 | S886123 | 40 | 41 | 1 | | 0.002 | 0.003 | <0.002 | 0.001 | <0.005 | 0.003 | <0.2 | SD19009890 |
| 18HC03 | S886124 | 41 | 42 | 1 | | <0.002 | 0.003 | 0.003 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC03 | S886125 | | | | Std | 0.098 | 0.299 | 0.019 | 0.050 | <0.005 | 0.008 | 0.2 | SD19009890 |
| 18HC03 | S886126 | 42 | 43 | 1 | | 0.002 | 0.002 | <0.002 | 0.002 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC03 | S886127 | 43 | 44 | 1 | | <0.002 | 0.003 | <0.002 | 0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC03 | S886128 | 44 | 45 | 1 | | 0.002 | 0.002 | 0.003 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC03 | S886129 | 45 | 47 | 2 | | 0.003 | 0.002 | 0.004 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC03 | S886130 | | | | Blank | <0.002 | <0.002 | 0.003 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC03 | S886131 | 54 | 55.1 | 1.1 | | 0.002 | 0.004 | 0.005 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC03 | S886132 | 89.1 | 89.6 | 0.5 | | 0.013 | 0.024 | <0.002 | 0.005 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC03 | S886133 | 93.4 | 94.45 | 1.05 | | 0.009 | 0.023 | 0.005 | 0.001 | <0.005 | 0.002 | <0.2 | SD19009890 |
| 18HC03 | S886134 | 94.45 | 95.5 | 1.05 | | 0.009 | 0.037 | 0.002 | 0.001 | <0.005 | 0.002 | <0.2 | SD19009890 |
| 18HC04 | S886135 | 7 | 8 | 1 | | 0.005 | 0.017 | 0.007 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC04 | S886136 | 7 | 8 | 1 | Dup | <0.002 | 0.016 | 0.008 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC04 | S886137 | 12.5 | 13.5 | 1 | | 0.004 | 0.007 | 0.002 | 0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC04 | S886138 | 16 | 17 | 1 | | 0.003 | 0.006 | 0.002 | 0.002 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC04 | S886139 | 17 | 18 | 1 | | 0.004 | 0.007 | 0.002 | 0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC04 | S886140 | | | | Blank | <0.002 | <0.002 | 0.003 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC04 | S886141 | 18 | 19 | 1 | | 0.004 | 0.005 | 0.003 | 0.002 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC04 | S886142 | 19 | 20 | 1 | | 0.002 | 0.004 | 0.002 | 0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC04 | S886143 | 20 | 21 | 1 | | <0.002 | 0.003 | <0.002 | 0.002 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC04 | S886144 | 21 | 22 | 1 | | 0.006 | 0.002 | 0.003 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC04 | S886145 | | | | Std | 0.098 | 0.300 | 0.019 | 0.045 | <0.005 | 0.005 | <0.2 | SD19009890 |
| 18HC04 | S886146 | 22 | 24 | 2 | | 0.002 | <0.002 | <0.002 | 0.002 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC04 | S886147 | 29.15 | 30.15 | 1 | | <0.002 | <0.002 | <0.002 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC04 | S886148 | 36 | 37 | 1 | | 0.003 | <0.002 | 0.003 | 0.002 | <0.005 | 0.002 | <0.2 | SD19009890 |
| 18HC04 | S886149 | 37 | 38 | 1 | | 0.004 | 0.003 | 0.002 | 0.008 | <0.005 | 0.001 | 0.3 | SD19009890 |
| 18HC04 | S886150 | | | | Blank | <0.002 | <0.002 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |

2018 Drill Hole Sample Results

| Hole ID | Sample ID | From (m) | To (m) | Interval (m) | QA/QC | Co % | Cu % | Ni % | Au ppm | Pt ppm | Pd ppm | Ag ppm | Certificate |
|---------|-----------|----------|--------|--------------|-------|--------|--------|--------|--------|--------|--------|--------|-------------|
| 18HC04 | S886151 | 38 | 39 | 1 | | <0.002 | <0.002 | 0.002 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC04 | S886152 | 41.75 | 42.75 | 1 | | 0.003 | 0.006 | 0.003 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC04 | S886153 | 42.75 | 43.75 | 1 | | <0.002 | <0.002 | <0.002 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC04 | S886154 | 43.75 | 44.75 | 1 | | 0.005 | <0.002 | 0.002 | 0.001 | <0.005 | 0.002 | <0.2 | SD19009890 |
| 18HC04 | S886155 | 43.75 | 44.75 | 1 | Dup | 0.003 | <0.002 | 0.003 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC04 | S886156 | 44.75 | 45.75 | 1 | | <0.002 | <0.002 | 0.003 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC04 | S886157 | 51.35 | 52.35 | 1 | | 0.002 | 0.004 | 0.002 | <0.001 | <0.005 | 0.002 | <0.2 | SD19009890 |
| 18HC04 | S886158 | 52.35 | 53.93 | 1.58 | | 0.003 | <0.002 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC04 | S886159 | 53.93 | 55.5 | 1.57 | | 0.004 | 0.004 | 0.003 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC04 | S886160 | 55.5 | 56.5 | 1 | | 0.007 | 0.005 | 0.004 | 0.004 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC04 | S886161 | 56.5 | 57.5 | 1 | | 0.002 | 0.004 | 0.004 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC04 | S886162 | 57.5 | 59.5 | 2 | | 0.003 | 0.002 | 0.003 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC04 | S886163 | 63 | 64 | 1 | | 0.006 | 0.005 | 0.004 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC04 | S886164 | 85.05 | 85.55 | 0.5 | | 0.007 | 0.012 | 0.005 | 0.002 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC04 | S886165 | | | | Std | 0.098 | 0.302 | 0.019 | 0.059 | <0.005 | 0.007 | 0.2 | SD19009890 |
| 18HC04 | S886166 | 92 | 93 | 1 | | 0.008 | 0.041 | 0.009 | 0.001 | <0.005 | 0.002 | 0.3 | SD19009890 |
| 18HC05 | S886167 | 12 | 14 | 2 | | 0.007 | 0.005 | 0.013 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC05 | S886168 | 14 | 15 | 1 | | 0.004 | 0.004 | 0.004 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC05 | S886169 | 15 | 16 | 1 | | 0.002 | 0.006 | 0.005 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC05 | S886170 | | | | Blank | <0.002 | <0.002 | 0.002 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC05 | S886171 | 16 | 17 | 1 | | 0.005 | 0.003 | 0.003 | 0.001 | <0.005 | 0.002 | <0.2 | SD19009890 |
| 18HC05 | S886172 | 17 | 18 | 1 | | 0.004 | 0.002 | <0.002 | 0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC05 | S886173 | 18 | 19 | 1 | | 0.005 | 0.002 | 0.003 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC05 | S886174 | 19 | 20 | 1 | | 0.006 | 0.003 | 0.005 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC05 | S886175 | 19 | 20 | 1 | Dup | 0.002 | 0.002 | <0.002 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC05 | S886176 | 20 | 21 | 1 | | 0.004 | <0.002 | 0.002 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC05 | S886177 | 21 | 22 | 1 | | 0.002 | 0.002 | 0.002 | 0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC05 | S886178 | 22 | 23 | 1 | | 0.003 | 0.002 | 0.004 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC05 | S886179 | 23 | 24 | 1 | | 0.003 | 0.002 | 0.002 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC05 | S886180 | 24 | 26 | 2 | | 0.002 | <0.002 | 0.004 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |

2018 Drill Hole Sample Results

| Hole ID | Sample ID | From (m) | To (m) | Interval (m) | QA/QC | Co % | Cu % | Ni % | Au ppm | Pt ppm | Pd ppm | Ag ppm | Certificate |
|---------|-----------|----------|--------|--------------|-------|--------|--------|--------|--------|--------|--------|--------|-------------|
| 18HC05 | S886181 | 26 | 27 | 1 | | <0.002 | 0.002 | 0.006 | 0.001 | <0.005 | 0.001 | 0.3 | SD19009890 |
| 18HC05 | S886182 | 27 | 28 | 1 | | <0.002 | 0.008 | 0.004 | 0.002 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC05 | S886183 | 28 | 29 | 1 | | 0.003 | 0.010 | 0.006 | 0.003 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC05 | S886184 | 29 | 30 | 1 | | <0.002 | <0.002 | 0.002 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC05 | S886185 | | | | Std | 0.097 | 0.302 | 0.022 | 0.045 | <0.005 | 0.007 | 0.2 | SD19009890 |
| 18HC05 | S886186 | 30 | 30.8 | 0.8 | | <0.002 | 0.005 | 0.003 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC05 | S886187 | 30.8 | 31.3 | 0.5 | | 0.004 | 0.023 | 0.003 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC05 | S886188 | 31.3 | 33 | 1.7 | | 0.005 | 0.002 | 0.004 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC05 | S886189 | 36 | 37 | 1 | | <0.002 | 0.002 | 0.002 | <0.001 | <0.005 | 0.002 | <0.2 | SD19009890 |
| 18HC05 | S886190 | | | | Blank | <0.002 | <0.002 | 0.004 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC05 | S886191 | 37 | 38 | 1 | | 0.003 | 0.009 | 0.002 | <0.001 | <0.005 | 0.001 | 0.2 | SD19009890 |
| 18HC05 | S886192 | 38 | 39 | 1 | | 0.002 | 0.002 | 0.002 | 0.001 | <0.005 | 0.002 | <0.2 | SD19009890 |
| 18HC05 | S886193 | 39 | 40 | 1 | | <0.002 | 0.006 | <0.002 | 0.002 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC05 | S886194 | 40 | 41 | 1 | | 0.005 | 0.002 | <0.002 | 0.003 | <0.005 | 0.001 | 0.2 | SD19009890 |
| 18HC05 | S886195 | 40 | 41 | 1 | Dup | 0.007 | 0.004 | 0.004 | 0.003 | <0.005 | 0.001 | 0.3 | SD19009890 |
| 18HC05 | S886196 | 41 | 42 | 1 | | 0.004 | 0.002 | 0.002 | 0.003 | <0.005 | 0.001 | 0.3 | SD19009890 |
| 18HC05 | S886197 | 42 | 43 | 1 | | 0.003 | 0.002 | 0.003 | 0.005 | <0.005 | 0.001 | 0.3 | SD19009890 |
| 18HC05 | S886198 | 60.9 | 61.9 | 1 | | 0.005 | 0.004 | 0.003 | 0.002 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC05 | S886199 | 65.8 | 66.3 | 0.5 | | 0.006 | 0.013 | 0.003 | 0.005 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC05 | S886200 | 68.2 | 68.7 | 0.5 | | 0.003 | 0.005 | 0.004 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC05 | S886201 | 69.4 | 69.9 | 0.5 | | 0.004 | 0.019 | 0.004 | 0.003 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC05 | S886202 | 83.95 | 84.5 | 0.55 | | 0.004 | 0.011 | 0.002 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC06 | S886203 | 10.5 | 12.5 | 2 | | 0.005 | 0.021 | 0.002 | 0.005 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC06 | S886204 | 12.5 | 13.5 | 1 | | 0.002 | 0.016 | <0.002 | 0.001 | <0.005 | <0.001 | 0.2 | SD19009890 |
| 18HC06 | S886205 | | | | Std | 0.095 | 0.297 | 0.019 | 0.045 | <0.005 | <0.001 | 0.2 | SD19009890 |
| 18HC06 | S886206 | 13.5 | 14.5 | 1 | | 0.003 | 0.012 | 0.004 | 0.002 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC06 | S886207 | 14.5 | 15.5 | 1 | | 0.006 | 0.011 | <0.002 | 0.001 | <0.005 | <0.001 | 0.3 | SD19009890 |
| 18HC06 | S886208 | 15.5 | 16.5 | 1 | | 0.002 | 0.003 | <0.002 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC06 | S886209 | 16.5 | 17.5 | 1 | | 0.003 | 0.005 | 0.004 | 0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC06 | S886210 | | | | Blank | <0.002 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |

2018 Drill Hole Sample Results

| Hole ID | Sample ID | From (m) | To (m) | Interval (m) | QA/QC | Co % | Cu % | Ni % | Au ppm | Pt ppm | Pd ppm | Ag ppm | Certificate |
|---------|-----------|----------|--------|--------------|-------|--------|--------|--------|--------|--------|--------|--------|-------------|
| 18HC06 | S886211 | 17.5 | 18.5 | 1 | | <0.002 | 0.004 | <0.002 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC06 | S886212 | 18.5 | 19.5 | 1 | | <0.002 | 0.002 | <0.002 | <0.001 | <0.005 | 0.001 | 0.2 | SD19009890 |
| 18HC06 | S886213 | 19.5 | 20.5 | 1 | | <0.002 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | 0.2 | SD19009890 |
| 18HC06 | S886214 | 20.5 | 22.5 | 2 | | <0.002 | <0.002 | 0.002 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC06 | S886215 | 20.5 | 22.5 | 2 | Dup | <0.002 | <0.002 | <0.002 | 0.001 | <0.005 | 0.001 | 0.2 | SD19009890 |
| 18HC06 | S886216 | 25.5 | 26.5 | 1 | | <0.002 | <0.002 | 0.002 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC06 | S886217 | 26.5 | 27.5 | 1 | | <0.002 | <0.002 | <0.002 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC06 | S886218 | 27.5 | 28.5 | 1 | | <0.002 | <0.002 | 0.004 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC06 | S886219 | 42.8 | 43.3 | 0.5 | | <0.002 | <0.002 | 0.003 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC06 | S886220 | 45.1 | 45.6 | 0.5 | | <0.002 | <0.002 | 0.004 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC06 | S886221 | 49 | 50 | 1 | | <0.002 | 0.004 | <0.002 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC06 | S886222 | 50 | 51 | 1 | | 0.005 | 0.065 | 0.004 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC06 | S886223 | 51 | 52 | 1 | | 0.002 | 0.009 | 0.004 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC06 | S886224 | 52 | 53 | 1 | | <0.002 | 0.002 | <0.002 | <0.001 | <0.005 | 0.002 | <0.2 | SD19009890 |
| 18HC06 | S886225 | | | | Std | 0.097 | 0.301 | 0.018 | 0.043 | <0.005 | 0.008 | 0.3 | SD19009890 |
| 18HC06 | S886226 | 68.1 | 68.6 | 0.5 | | 0.004 | 0.010 | 0.003 | 0.001 | <0.005 | 0.002 | <0.2 | SD19009890 |
| 18HC06 | S886227 | 72.75 | 73.75 | 1 | | 0.003 | 0.013 | 0.003 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC06 | S886228 | 77.2 | 77.7 | 0.5 | | 0.004 | 0.011 | 0.005 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC06 | S886229 | 86 | 86.5 | 0.5 | | 0.005 | 0.013 | 0.005 | 0.002 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC06 | S886230 | | | | Blank | <0.002 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC07 | S886231 | 4 | 4.5 | 0.5 | | 0.003 | 0.011 | 0.004 | 0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC07 | S886232 | 10.7 | 11.7 | 1 | | 0.005 | 0.004 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC07 | S886233 | 11.7 | 12.7 | 1 | | 0.002 | 0.002 | 0.002 | 0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC07 | S886234 | 12.7 | 13.7 | 1 | | <0.002 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC07 | S886235 | 13.7 | 14.7 | 1 | | 0.002 | <0.002 | <0.002 | 0.001 | <0.005 | <0.001 | 0.2 | SD19009890 |
| 18HC07 | S886236 | 14.7 | 15.7 | 1 | | 0.004 | 0.003 | <0.002 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC07 | S886237 | 14.7 | 15.7 | 1 | Dup | 0.003 | 0.002 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC07 | S886238 | 15.7 | 16.7 | 1 | | 0.006 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC07 | S886239 | 16.7 | 17.7 | 1 | | 0.003 | 0.003 | <0.002 | 0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC07 | S886240 | 17.7 | 18.7 | 1 | | 0.003 | 0.005 | <0.002 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |

2018 Drill Hole Sample Results

| Hole ID | Sample ID | From (m) | To (m) | Interval (m) | QA/QC | Co % | Cu % | Ni % | Au ppm | Pt ppm | Pd ppm | Ag ppm | Certificate |
|---------|-----------|----------|--------|--------------|-------|--------|--------|--------|--------|--------|--------|--------|-------------|
| 18HC07 | S886241 | 18.7 | 19.7 | 1 | | 0.003 | 0.004 | 0.002 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC07 | S886242 | 19.7 | 20.7 | 1 | | 0.002 | 0.003 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC07 | S886243 | 20.7 | 21.7 | 1 | | <0.002 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC07 | S886244 | 21.7 | 22.7 | 1 | | <0.002 | <0.002 | <0.002 | 0.002 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC07 | S886245 | | | | Std | 0.098 | 0.298 | 0.016 | 0.046 | <0.005 | 0.003 | 0.3 | SD19009890 |
| 18HC07 | S886246 | 22.7 | 23.7 | 1 | | 0.004 | <0.002 | <0.002 | 0.001 | <0.005 | <0.001 | 0.3 | SD19009890 |
| 18HC07 | S886247 | 23.7 | 24.7 | 1 | | <0.002 | <0.002 | <0.002 | 0.001 | <0.005 | 0.001 | 0.2 | SD19009890 |
| 18HC07 | S886248 | 24.7 | 26.7 | 2 | | <0.002 | 0.002 | <0.002 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC07 | S886249 | 29 | 31 | 2 | | <0.002 | 0.003 | <0.002 | 0.001 | <0.005 | 0.002 | <0.2 | SD19009890 |
| 18HC07 | S886250 | 31 | 32 | 1 | | <0.002 | 0.007 | <0.002 | 0.003 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC07 | S886251 | 32 | 33 | 1 | | 0.004 | 0.011 | <0.002 | 0.002 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC07 | S886252 | 33 | 34 | 1 | | <0.002 | 0.005 | <0.002 | 0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC07 | S886253 | 48 | 49 | 1 | | 0.006 | 0.002 | 0.004 | 0.010 | <0.005 | <0.001 | 0.3 | SD19009890 |
| 18HC07 | S886254 | 53 | 54 | 1 | | <0.002 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | 0.3 | SD19009890 |
| 18HC07 | S886255 | 60.5 | 61.5 | 1 | | <0.002 | 0.004 | <0.002 | <0.001 | <0.005 | <0.001 | 0.2 | SD19009890 |
| 18HC07 | S886256 | 60.5 | 61.5 | 1 | Dup | 0.004 | 0.004 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC07 | S886257 | 61.5 | 62.5 | 1 | | <0.002 | 0.007 | 0.002 | <0.001 | <0.005 | <0.001 | 0.2 | SD19009890 |
| 18HC08 | S886258 | 72.85 | 73.35 | 0.5 | | 0.002 | 0.002 | <0.002 | <0.001 | <0.005 | 0.001 | 0.2 | SD19009890 |
| 18HC08 | S886259 | 5 | 7 | 2 | | 0.004 | 0.007 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC08 | S886260 | | | | Blank | <0.002 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC08 | S886261 | 7 | 8 | 1 | | 0.004 | 0.003 | 0.002 | <0.001 | <0.005 | <0.001 | 0.2 | SD19009890 |
| 18HC08 | S886262 | 8 | 9 | 1 | | 0.006 | 0.004 | 0.005 | 0.037 | <0.005 | <0.001 | 1.3 | SD19009890 |
| 18HC08 | S886263 | 9 | 10 | 1 | | 0.002 | 0.005 | 0.006 | <0.001 | <0.005 | <0.001 | 0.4 | SD19009890 |
| 18HC08 | S886264 | 10 | 11 | 1 | | 0.002 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | 0.3 | SD19009890 |
| 18HC08 | S886265 | | | | Std | 0.098 | 0.307 | 0.016 | 0.032 | <0.005 | <0.001 | 0.3 | SD19009890 |
| 18HC08 | S886266 | 11 | 12 | 1 | | 0.003 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC08 | S886267 | 12 | 13 | 1 | | 0.003 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC08 | S886268 | 13 | 14 | 1 | | 0.003 | 0.004 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC08 | S886269 | 14 | 15 | 1 | | <0.002 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC08 | S886270 | 15 | 16 | 1 | | 0.003 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |

2018 Drill Hole Sample Results

| Hole ID | Sample ID | From (m) | To (m) | Interval (m) | QA/QC | Co % | Cu % | Ni % | Au ppm | Pt ppm | Pd ppm | Ag ppm | Certificate |
|---------|-----------|----------|--------|--------------|-------|--------|--------|--------|--------|--------|--------|--------|-------------|
| 18HC08 | S886271 | 16 | 17 | 1 | | <0.002 | 0.004 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC08 | S886272 | 17 | 18 | 1 | | <0.002 | 0.016 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC08 | S886273 | 18 | 19 | 1 | | 0.011 | 0.009 | 0.003 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC08 | S886274 | 19 | 20 | 1 | | 0.008 | 0.007 | 0.003 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC08 | S886275 | 20 | 21 | 1 | | 0.010 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC08 | S886276 | 21 | 22 | 1 | | <0.002 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC08 | S886277 | 22 | 23 | 1 | | <0.002 | 0.004 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC08 | S886278 | 23 | 24 | 1 | | <0.002 | 0.050 | <0.002 | <0.001 | <0.005 | 0.001 | 0.3 | SD19009890 |
| 18HC08 | S886279 | 24 | 26 | 2 | | <0.002 | 0.007 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC08 | S886280 | 24 | 26 | 2 | Dup | <0.002 | 0.008 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC08 | S886281 | 31.5 | 32 | 0.5 | | <0.002 | 0.017 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC08 | S886282 | 32.7 | 33.2 | 0.5 | | <0.002 | 0.023 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC09 | S886283 | 4.7 | 6.35 | 1.65 | | 0.005 | 0.005 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC09 | S886284 | 6.35 | 8 | 1.65 | | 0.004 | 0.005 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC09 | S886285 | | | | Std | 0.098 | 0.306 | 0.013 | 0.041 | <0.005 | 0.003 | 0.2 | SD19009890 |
| 18HC09 | S886286 | 8 | 9 | 1 | | 0.003 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC09 | S886287 | 9 | 10 | 1 | | <0.002 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC09 | S886288 | 10 | 11 | 1 | | 0.004 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC09 | S886289 | 11 | 12 | 1 | | <0.002 | 0.004 | <0.002 | <0.001 | <0.005 | <0.001 | 0.3 | SD19009890 |
| 18HC09 | S886290 | | | | Blank | <0.002 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC09 | S886291 | 12 | 13 | 1 | | <0.002 | 0.003 | <0.002 | 0.005 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC09 | S886292 | 13 | 14 | 1 | | 0.009 | 0.002 | 0.003 | 0.006 | <0.005 | <0.001 | 0.3 | SD19009890 |
| 18HC09 | S886293 | 14 | 15 | 1 | | 0.007 | 0.004 | 0.003 | 0.010 | <0.005 | <0.001 | 0.3 | SD19009890 |
| 18HC09 | S886294 | 15 | 16 | 1 | | <0.002 | 0.013 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC09 | S886295 | 15 | 16 | 1 | Dup | <0.002 | 0.009 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC09 | S886296 | 16 | 17 | 1 | | <0.002 | 0.004 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC09 | S886297 | 17 | 18 | 1 | | 0.002 | 0.005 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC09 | S886298 | 18 | 19 | 1 | | 0.002 | 0.142 | <0.002 | <0.001 | <0.005 | <0.001 | 0.2 | SD19009890 |
| 18HC09 | S886299 | 19 | 20 | 1 | | <0.002 | 0.013 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC09 | S886300 | 20 | 21 | 1 | | <0.002 | 0.012 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |

2018 Drill Hole Sample Results

| Hole ID | Sample ID | From (m) | To (m) | Interval (m) | QA/QC | Co % | Cu % | Ni % | Au ppm | Pt ppm | Pd ppm | Ag ppm | Certificate |
|---------|-----------|----------|--------|--------------|-------|--------|--------|--------|--------|--------|--------|--------|-------------|
| 18HC09 | S886401 | 21 | 22 | 1 | | 0.003 | 0.052 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC09 | S886402 | 22 | 23 | 1 | | <0.002 | 0.017 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC09 | S886403 | 23 | 25 | 2 | | <0.002 | 0.006 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC09 | S886404 | 42.5 | 43.5 | 1 | | <0.002 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC09 | S886405 | | | | Std | 0.100 | 0.309 | 0.017 | 0.044 | <0.005 | <0.001 | 0.4 | SD19009890 |
| 18HC09 | S886406 | 47.5 | 48.5 | 1 | | 0.007 | <0.002 | 0.004 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC09 | S886407 | 55.3 | 55.8 | 0.5 | | 0.003 | 0.012 | 0.005 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC09 | S886408 | 74.15 | 74.65 | 0.5 | | 0.012 | 0.005 | 0.006 | 0.021 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC10 | S886409 | 7.6 | 8.1 | 0.5 | | 0.004 | 0.008 | 0.007 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC10 | S886410 | | | | Blank | <0.002 | <0.002 | 0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC10 | S886411 | 9 | 11 | 2 | | 0.004 | 0.006 | 0.003 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC10 | S886412 | 11 | 12 | 1 | | 0.003 | 0.002 | 0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC10 | S886413 | 12 | 13 | 1 | | 0.002 | 0.003 | 0.004 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC10 | S886414 | 13 | 14 | 1 | | <0.002 | 0.003 | 0.004 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC10 | S886415 | 13 | 14 | 1 | Dup | 0.004 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC10 | S886416 | 14 | 15 | 1 | | 0.004 | 0.004 | 0.003 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC10 | S886417 | 15 | 16 | 1 | | 0.011 | <0.002 | 0.003 | 0.033 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC10 | S886418 | 16 | 17 | 1 | | 0.006 | 0.004 | 0.005 | 0.004 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC10 | S886419 | 17 | 18 | 1 | | 0.004 | 0.005 | 0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC10 | S886420 | 18 | 19 | 1 | | <0.002 | 0.012 | 0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC10 | S886421 | 19 | 20 | 1 | | 0.002 | 0.056 | 0.004 | <0.001 | <0.005 | <0.001 | 0.5 | SD19009890 |
| 18HC10 | S886422 | 20 | 21 | 1 | | <0.002 | 0.017 | 0.005 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC10 | S886423 | 21 | 22 | 1 | | <0.002 | 0.004 | 0.003 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC10 | S886424 | 22 | 23 | 1 | | <0.002 | 0.008 | 0.004 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC10 | S886425 | | | | Std | 0.099 | 0.309 | 0.019 | 0.041 | <0.005 | 0.001 | 0.2 | SD19009890 |
| 18HC10 | S886426 | 23 | 24 | 1 | | <0.002 | 0.003 | 0.003 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC10 | S886427 | 24 | 25 | 1 | | <0.002 | 0.007 | 0.004 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC10 | S886428 | 25 | 26 | 1 | | <0.002 | 0.003 | 0.003 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC10 | S886429 | 26 | 27 | 1 | | <0.002 | 0.007 | 0.004 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC10 | S886430 | | | | Std | 0.099 | 0.308 | 0.023 | 0.042 | <0.005 | 0.001 | 0.3 | SD19009890 |

2018 Drill Hole Sample Results

| Hole ID | Sample ID | From (m) | To (m) | Interval (m) | QA/QC | Co % | Cu % | Ni % | Au ppm | Pt ppm | Pd ppm | Ag ppm | Certificate |
|---------|-----------|----------|--------|--------------|-------|--------|--------|-------|--------|--------|--------|--------|-------------|
| 18HC10 | S886431 | 27 | 28 | 1 | | 0.002 | 0.004 | 0.003 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC10 | S886432 | 28 | 29 | 1 | | <0.002 | 0.007 | 0.003 | 0.004 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC10 | S886433 | 29 | 30 | 1 | | <0.002 | 0.003 | 0.003 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC10 | S886434 | 29 | 30 | 1 | Dup | <0.002 | 0.004 | 0.004 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC10 | S886435 | 30 | 31 | 1 | | <0.002 | 0.008 | 0.002 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC10 | S886436 | 31 | 32 | 1 | | <0.002 | 0.016 | 0.005 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC10 | S886437 | 32 | 33 | 1 | | 0.002 | 0.006 | 0.002 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC10 | S886438 | 33 | 34 | 1 | | 0.002 | 0.003 | 0.004 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |
| 18HC10 | S886439 | 34 | 35 | 1 | | <0.002 | <0.002 | 0.005 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC10 | S886440 | 35 | 36 | 1 | | 0.002 | 0.005 | 0.003 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC10 | S886441 | 36 | 37 | 1 | | <0.002 | 0.009 | 0.007 | <0.001 | <0.005 | 0.001 | <0.2 | SD19009890 |
| 18HC10 | S886442 | 37 | 39 | 2 | | 0.002 | 0.002 | 0.002 | <0.001 | <0.005 | <0.001 | <0.2 | SD19009890 |

CLIENT NAME: CRUZ COBALT CORP.
P.O BOX 10112 1470-701 W. GEORGIA ST
VANCOUVER, BC V7Y 1C6
604-646-6908

ATTENTION TO: Jason Gigliotti, Jim Nelson

PROJECT:

AGAT WORK ORDER: 17T282580

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Jan 04, 2018

PAGES (INCLUDING COVER): 18

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 17T282580

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 04, 2018

SAMPLE TYPE: Other

| Analyte: | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs | Cu | Fe |
|---------------|------|------|------|-----|------|------|------|-------|------|------|------|------|------|------|
| Unit: | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % |
| RDL: | 0.01 | 0.01 | 0.2 | 1 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.05 | 0.5 | 0.01 | 0.5 | 0.01 |
| A1 (8893689) | 0.24 | 5.79 | 0.9 | 541 | 1.17 | 0.06 | 1.45 | 0.03 | 17.4 | 6.46 | 39.8 | 1.05 | 3.3 | 1.22 |
| A2 (8893690) | 0.15 | 6.47 | 0.8 | 524 | 1.27 | 0.07 | 1.37 | 0.05 | 19.2 | 7.99 | 47.5 | 1.14 | 2.5 | 1.86 |
| A3 (8893691) | 0.17 | 6.37 | 0.7 | 521 | 1.32 | 0.07 | 1.33 | 0.05 | 28.8 | 10.6 | 48.8 | 1.19 | 6.0 | 1.71 |
| A4 (8893692) | 0.16 | 6.75 | 2.8 | 452 | 1.14 | 0.08 | 1.15 | 0.08 | 15.2 | 7.64 | 50.1 | 1.16 | 3.9 | 2.30 |
| A5 (8893693) | 0.13 | 5.31 | 0.7 | 480 | 0.98 | 0.07 | 1.08 | 0.02 | 18.0 | 4.28 | 34.3 | 0.99 | 1.5 | 1.20 |
| A6 (8893694) | 0.31 | 6.69 | 3.8 | 424 | 1.35 | 0.16 | 1.21 | 0.10 | 42.5 | 19.1 | 74.5 | 1.71 | 22.1 | 2.97 |
| A7 (8893695) | 0.27 | 6.79 | 3.1 | 391 | 1.33 | 0.26 | 1.14 | 0.10 | 23.8 | 17.4 | 67.0 | 1.99 | 15.1 | 3.35 |
| A8 (8893696) | 0.26 | 6.62 | 2.4 | 496 | 1.26 | 0.14 | 1.46 | 0.09 | 27.5 | 13.7 | 51.8 | 1.50 | 11.8 | 2.37 |
| A9 (8893697) | 0.16 | 5.99 | 3.9 | 476 | 1.29 | 0.12 | 1.67 | 0.07 | 34.7 | 12.5 | 50.0 | 1.23 | 17.0 | 2.04 |
| A10 (8893698) | 0.14 | 6.44 | 3.9 | 529 | 1.40 | 0.10 | 1.61 | 0.06 | 39.8 | 11.4 | 57.2 | 1.06 | 13.6 | 2.16 |
| A11 (8893699) | 0.18 | 6.70 | 6.7 | 506 | 1.46 | 0.15 | 1.56 | 0.08 | 40.2 | 15.6 | 66.7 | 1.55 | 32.5 | 2.26 |
| A12 (8893700) | 0.17 | 6.30 | 8.6 | 432 | 1.37 | 0.34 | 1.47 | 0.06 | 65.5 | 15.8 | 77.1 | 1.60 | 72.8 | 2.94 |
| A13 (8893701) | 0.25 | 6.46 | 9.6 | 457 | 1.70 | 0.36 | 1.48 | 0.18 | 87.5 | 21.4 | 67.6 | 1.86 | 66.8 | 2.82 |
| A14 (8893702) | 0.20 | 6.28 | 5.3 | 497 | 1.36 | 0.17 | 1.58 | 0.12 | 39.7 | 10.1 | 57.4 | 1.19 | 18.4 | 2.06 |
| A15 (8893703) | 0.16 | 6.22 | 5.1 | 488 | 1.43 | 0.41 | 1.55 | 0.06 | 31.8 | 14.3 | 53.6 | 1.28 | 40.8 | 2.06 |
| A16 (8893704) | 0.16 | 6.27 | 1.2 | 506 | 1.22 | 0.11 | 1.54 | 0.04 | 28.3 | 9.11 | 35.8 | 0.97 | 17.0 | 1.84 |
| A17 (8893705) | 0.40 | 6.66 | 2.6 | 489 | 1.38 | 0.09 | 1.43 | 0.07 | 34.9 | 12.0 | 45.2 | 1.04 | 18.5 | 2.13 |
| A18 (8893706) | 0.32 | 6.41 | 4.7 | 480 | 1.61 | 0.23 | 1.56 | 0.08 | 41.7 | 16.2 | 60.0 | 1.24 | 20.7 | 2.79 |
| A19 (8893707) | 0.21 | 6.34 | 1.2 | 491 | 1.41 | 0.08 | 1.61 | 0.08 | 23.5 | 12.7 | 57.0 | 0.98 | 4.8 | 2.16 |
| A20 (8893708) | 0.15 | 6.40 | 1.5 | 535 | 1.44 | 0.09 | 1.43 | 0.04 | 28.8 | 9.92 | 43.0 | 1.02 | 10.0 | 2.23 |
| A21 (8893709) | 0.43 | 6.26 | 2.7 | 484 | 1.28 | 0.10 | 1.42 | 0.15 | 28.1 | 14.0 | 60.5 | 1.46 | 8.3 | 2.26 |
| B3 (8893710) | 0.25 | 6.43 | 1.7 | 535 | 1.37 | 0.09 | 1.85 | 0.07 | 60.0 | 12.4 | 74.0 | 1.43 | 18.0 | 2.26 |
| B4 (8893711) | 0.17 | 6.73 | 2.7 | 556 | 1.65 | 0.12 | 1.93 | 0.13 | 39.2 | 16.5 | 73.8 | 1.62 | 36.9 | 2.36 |
| B5 (8893712) | 0.18 | 6.53 | 3.1 | 503 | 1.49 | 0.10 | 2.01 | 0.05 | 36.6 | 15.4 | 58.4 | 1.11 | 16.8 | 2.95 |
| B6 (8893713) | 0.17 | 6.47 | 4.0 | 535 | 1.46 | 0.09 | 1.86 | <0.02 | 42.6 | 13.2 | 54.8 | 1.61 | 19.1 | 2.37 |
| B7 (8893714) | 0.15 | 6.48 | 2.5 | 479 | 1.43 | 0.10 | 2.22 | 0.05 | 46.7 | 13.1 | 65.3 | 1.08 | 6.1 | 2.82 |
| B8 (8893715) | 0.21 | 6.51 | 4.4 | 434 | 1.22 | 0.22 | 1.27 | 0.09 | 34.3 | 19.2 | 79.0 | 2.04 | 31.0 | 3.20 |
| B9 (8893716) | 0.31 | 6.08 | 6.3 | 430 | 1.30 | 0.15 | 1.51 | 0.07 | 35.6 | 15.9 | 75.1 | 1.52 | 22.1 | 2.88 |
| B10 (8893717) | 0.25 | 7.07 | 6.1 | 481 | 1.31 | 0.13 | 1.37 | 0.12 | 46.3 | 22.4 | 79.9 | 1.62 | 37.1 | 2.80 |
| B11 (8893718) | 0.16 | 6.85 | 27.0 | 491 | 1.38 | 0.14 | 1.46 | 0.09 | 33.4 | 20.0 | 71.8 | 1.38 | 25.3 | 3.19 |
| B12 (8893719) | 0.37 | 9.34 | 3.1 | 595 | 1.74 | 0.15 | 1.84 | 0.10 | 38.5 | 24.0 | 96.3 | 2.18 | 41.5 | 3.67 |
| B13 (8893720) | 0.18 | 6.48 | 8.0 | 530 | 1.51 | 0.19 | 1.54 | 0.07 | 20.9 | 9.76 | 46.2 | 1.16 | 14.4 | 1.67 |

Certified By:

Certificate of Analysis

AGAT WORK ORDER: 17T282580

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 04, 2018

SAMPLE TYPE: Other

| Sample ID (AGAT ID) | Analyte: Unit: RDL: | Ag ppm 0.01 | Al % 0.01 | As ppm 0.2 | Ba ppm 1 | Be ppm 0.05 | Bi ppm 0.01 | Ca % 0.01 | Cd ppm 0.02 | Ce ppm 0.01 | Co ppm 0.05 | Cr ppm 0.5 | Cs ppm 0.01 | Cu ppm 0.5 | Fe % 0.01 |
|---------------------|---------------------------|-------------------|-----------------|------------------|----------------|-------------------|-------------------|-----------------|-------------------|-------------------|-------------------|------------------|-------------------|------------------|-----------------|
| B14 (8893721) | | 0.22 | 6.51 | 8.3 | 467 | 1.48 | 2.55 | 1.50 | 0.09 | 36.9 | 20.1 | 68.1 | 1.89 | 68.5 | 2.81 |
| B15 (8893722) | | 0.34 | 5.64 | 3.4 | 461 | 1.14 | 0.18 | 1.34 | 0.12 | 41.9 | 7.02 | 57.4 | 1.30 | 10.7 | 2.00 |
| B16 (8893723) | | 0.21 | 5.72 | 4.5 | 441 | 1.00 | 0.19 | 1.34 | 0.15 | 35.6 | 8.67 | 55.4 | 1.88 | 11.8 | 2.27 |
| B17 (8893724) | | 0.09 | 6.17 | 0.7 | 501 | 1.34 | 0.09 | 1.52 | 0.05 | 27.8 | 8.86 | 45.7 | 0.95 | 10.2 | 1.42 |
| B18 (8893725) | | 0.12 | 6.27 | 0.9 | 466 | 1.28 | 0.07 | 1.54 | 0.06 | 25.6 | 8.86 | 50.6 | 0.96 | 4.5 | 1.46 |
| B19 (8893726) | | 0.18 | 7.85 | 2.5 | 399 | 1.55 | 0.13 | 1.36 | 0.09 | 32.1 | 9.88 | 76.7 | 1.37 | 7.6 | 1.65 |
| B20 (8893727) | | 0.27 | 7.74 | 4.3 | 332 | 1.57 | 0.14 | 1.08 | 0.14 | 16.2 | 12.4 | 90.3 | 1.09 | 10.7 | 3.19 |
| B21 (8893728) | | 0.15 | 7.76 | 2.6 | 473 | 1.68 | 0.12 | 1.50 | 0.06 | 42.1 | 14.0 | 49.5 | 1.21 | 20.0 | 1.80 |
| B22 (8893729) | | 0.34 | 7.70 | 6.9 | 403 | 1.52 | 0.16 | 1.24 | 0.17 | 45.1 | 20.5 | 111 | 1.70 | 17.0 | 4.50 |
| B23 (8893730) | | 0.35 | 7.15 | 7.4 | 402 | 1.48 | 0.23 | 1.30 | 0.11 | 35.5 | 31.5 | 81.6 | 2.31 | 37.7 | 4.00 |
| C1 (8893731) | | 0.28 | 7.16 | 3.1 | 449 | 1.37 | 0.12 | 1.12 | 0.09 | 25.1 | 13.2 | 69.0 | 1.54 | 12.0 | 2.34 |
| C2 (8893732) | | 0.21 | 6.18 | 5.9 | 444 | 1.14 | 0.16 | 1.11 | 0.10 | 19.8 | 20.1 | 74.8 | 2.23 | 13.2 | 3.57 |
| C3 (8893733) | | 0.21 | 6.66 | 3.4 | 503 | 1.32 | 0.12 | 1.55 | 0.07 | 34.3 | 15.6 | 77.7 | 1.64 | 18.9 | 2.64 |
| C4 (8893734) | | 0.35 | 8.23 | 5.0 | 603 | 1.59 | 0.17 | 1.33 | 0.11 | 35.1 | 28.2 | 113 | 2.76 | 38.0 | 3.90 |
| C5 (8893735) | | 0.26 | 5.73 | 6.1 | 542 | 1.01 | 0.27 | 1.22 | 0.08 | 28.8 | 10.4 | 63.2 | 2.15 | 8.2 | 2.35 |
| C6 (8893736) | | 0.23 | 6.52 | 3.3 | 523 | 1.27 | 0.15 | 1.32 | 0.13 | 32.0 | 16.4 | 80.8 | 2.19 | 15.9 | 2.84 |
| C7 (8893737) | | 0.26 | 6.50 | 3.4 | 505 | 1.37 | 0.14 | 1.47 | 0.19 | 31.3 | 20.2 | 84.6 | 1.98 | 19.5 | 3.00 |
| C8 (8893738) | | 0.43 | 6.10 | 6.0 | 468 | 1.33 | 0.19 | 1.49 | 0.15 | 31.7 | 20.0 | 87.7 | 2.35 | 20.0 | 3.67 |
| C9 (8893739) | | 0.28 | 6.76 | 7.5 | 555 | 1.16 | 0.15 | 1.71 | 0.12 | 31.6 | 18.3 | 86.5 | 2.36 | 12.1 | 2.78 |
| C10 (8893740) | | 0.24 | 6.66 | 4.6 | 519 | 1.21 | 0.13 | 1.68 | 0.13 | 32.1 | 19.0 | 94.5 | 2.21 | 19.0 | 3.24 |
| C11 (8893741) | | 0.30 | 7.68 | 7.1 | 521 | 1.29 | 0.17 | 1.61 | 0.12 | 22.5 | 33.7 | 123 | 3.40 | 9.1 | 4.79 |
| C12 (8893742) | | 0.32 | 7.00 | 4.1 | 541 | 1.62 | 0.16 | 1.21 | 0.16 | 29.6 | 23.1 | 95.5 | 2.63 | 17.9 | 3.64 |
| C13 (8893743) | | 0.46 | 6.59 | 4.6 | 527 | 1.31 | 0.18 | 1.35 | 0.18 | 45.8 | 16.3 | 86.0 | 2.14 | 15.1 | 3.34 |
| C14 (8893744) | | 0.74 | 7.11 | 6.7 | 402 | 1.62 | 0.17 | 0.86 | 0.26 | 44.2 | 40.1 | 208 | 2.33 | 51.4 | 4.92 |
| C15 (8893745) | | 0.38 | 8.13 | 5.6 | 559 | 1.68 | 0.23 | 1.10 | 0.19 | 36.4 | 39.9 | 106 | 3.26 | 40.6 | 4.08 |
| C16 (8893746) | | 0.22 | 6.55 | 2.5 | 505 | 1.32 | 0.11 | 1.26 | 0.10 | 33.9 | 16.4 | 84.4 | 1.89 | 13.8 | 2.79 |
| C17 (8893747) | | 0.22 | 6.71 | 1.9 | 524 | 1.38 | 0.11 | 1.30 | 0.11 | 47.9 | 14.7 | 85.0 | 1.88 | 12.8 | 2.54 |
| C18 (8893748) | | 0.27 | 6.73 | 2.0 | 509 | 1.44 | 0.11 | 1.52 | 0.11 | 39.8 | 16.5 | 85.4 | 1.62 | 8.2 | 3.10 |
| C19 (8893749) | | 0.17 | 5.82 | 2.5 | 532 | 1.25 | 0.08 | 1.48 | 0.11 | 32.2 | 9.26 | 50.5 | 1.67 | 4.1 | 1.58 |
| C20 (8893750) | | 0.24 | 6.25 | 2.9 | 492 | 1.18 | 0.10 | 1.33 | 0.08 | 28.0 | 11.6 | 69.8 | 1.74 | 7.7 | 2.22 |
| C21 (8893751) | | 0.24 | 6.30 | 1.6 | 522 | 1.35 | 0.13 | 1.28 | 0.11 | 29.4 | 18.1 | 77.3 | 2.46 | 15.1 | 3.05 |
| C22 (8893752) | | 0.24 | 6.54 | 2.7 | 548 | 1.45 | 0.12 | 1.44 | 0.11 | 40.0 | 16.8 | 73.8 | 2.39 | 9.4 | 2.11 |

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 17T282580

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | DATE REPORTED: Jan 04, 2018 | | | | SAMPLE TYPE: Other | | | | | |
|----------------------------|-----------------------------|------|-----|-----|-----------------------------|------|------|------|--------------------|------|------|------|------|------|
| Analyte: | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs | Cu | Fe |
| Unit: | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % |
| RDL: | 0.01 | 0.01 | 0.2 | 1 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.05 | 0.5 | 0.01 | 0.5 | 0.01 |
| C23 (8893753) | 0.12 | 5.61 | 1.5 | 451 | 1.11 | 0.07 | 1.44 | 0.06 | 14.3 | 8.74 | 44.3 | 1.65 | 2.3 | 1.51 |
| C24 (8893754) | 0.14 | 5.86 | 2.3 | 458 | 1.34 | 0.09 | 1.70 | 0.08 | 46.7 | 11.8 | 71.7 | 1.36 | 15.1 | 1.99 |
| C25 (8893755) | 0.20 | 7.21 | 2.5 | 552 | 1.67 | 0.17 | 1.34 | 0.06 | 54.1 | 19.5 | 103 | 2.96 | 24.7 | 3.01 |
| C26 (8893756) | 0.14 | 7.64 | 2.7 | 543 | 1.62 | 0.11 | 1.66 | 0.03 | 39.9 | 20.7 | 72.8 | 1.93 | 10.5 | 3.22 |
| D1 (8893757) | 0.39 | 7.21 | 3.3 | 529 | 1.27 | 0.13 | 1.23 | 0.14 | 26.9 | 19.1 | 85.1 | 2.29 | 14.3 | 3.28 |
| D2 (8893758) | 0.26 | 7.04 | 3.2 | 470 | 1.41 | 0.15 | 1.49 | 0.10 | 27.6 | 26.0 | 95.3 | 2.14 | 16.8 | 4.09 |
| D3 (8893759) | 0.15 | 7.02 | 1.5 | 565 | 1.62 | 0.10 | 1.31 | 0.08 | 28.3 | 14.3 | 73.1 | 1.68 | 16.4 | 2.29 |
| D4 (8893760) | 0.38 | 6.52 | 6.8 | 423 | 1.35 | 0.43 | 1.19 | 0.13 | 28.7 | 16.9 | 96.4 | 2.63 | 27.0 | 5.36 |

Certified By:

Certificate of Analysis

AGAT WORK ORDER: 17T282580

PROJECT:

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 04, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|------|-----|-------|------|-----------------------------|------|------|-----|------|--------------------|------|------|------|--|
| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P | |
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm | |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 | |
| A1 (8893689) | 13.8 | 0.23 | 1.8 | 0.019 | 1.72 | 8.5 | 9.3 | 0.52 | 250 | 0.31 | 2.27 | 4.4 | 16.2 | 228 | |
| A2 (8893690) | 15.7 | 0.48 | 2.3 | 0.026 | 1.70 | 9.3 | 12.9 | 0.52 | 242 | 0.43 | 2.19 | 6.7 | 17.2 | 178 | |
| A3 (8893691) | 15.0 | 0.23 | 2.2 | 0.022 | 1.73 | 11.7 | 12.1 | 0.60 | 240 | 0.38 | 2.16 | 5.3 | 22.9 | 233 | |
| A4 (8893692) | 16.1 | 0.43 | 1.3 | 0.029 | 1.43 | 7.3 | 14.4 | 0.43 | 207 | 0.56 | 1.89 | 5.7 | 17.8 | 322 | |
| A5 (8893693) | 14.2 | 0.38 | 1.9 | 0.022 | 1.53 | 8.8 | 9.4 | 0.36 | 188 | 0.51 | 1.82 | 4.6 | 10.9 | 204 | |
| A6 (8893694) | 15.3 | 0.35 | 2.1 | 0.036 | 1.51 | 12.2 | 26.1 | 0.83 | 351 | 0.84 | 1.77 | 7.2 | 36.7 | 424 | |
| A7 (8893695) | 15.8 | 0.35 | 2.4 | 0.042 | 1.40 | 11.6 | 26.6 | 0.72 | 336 | 0.93 | 1.61 | 7.8 | 32.5 | 1140 | |
| A8 (8893696) | 15.0 | 0.33 | 3.0 | 0.029 | 1.69 | 11.4 | 15.2 | 0.69 | 334 | 0.59 | 2.02 | 6.9 | 28.8 | 460 | |
| A9 (8893697) | 13.8 | 0.35 | 3.2 | 0.026 | 1.54 | 12.9 | 16.1 | 0.71 | 381 | 0.38 | 2.18 | 6.2 | 26.1 | 233 | |
| A10 (8893698) | 14.4 | 0.39 | 1.9 | 0.023 | 1.65 | 12.5 | 13.9 | 0.64 | 336 | 0.46 | 2.34 | 5.3 | 26.7 | 339 | |
| A11 (8893699) | 16.7 | 0.36 | 2.5 | 0.031 | 1.65 | 18.1 | 14.2 | 0.74 | 335 | 0.63 | 2.16 | 6.6 | 32.5 | 307 | |
| A12 (8893700) | 15.5 | 0.39 | 2.9 | 0.032 | 1.50 | 21.0 | 17.3 | 0.89 | 486 | 0.56 | 2.04 | 6.7 | 34.7 | 441 | |
| A13 (8893701) | 16.3 | 0.42 | 2.9 | 0.036 | 1.62 | 26.7 | 20.4 | 0.85 | 486 | 0.74 | 2.03 | 7.3 | 35.3 | 449 | |
| A14 (8893702) | 15.3 | 0.40 | 2.3 | 0.027 | 1.61 | 16.0 | 14.6 | 0.65 | 365 | 0.58 | 2.29 | 5.4 | 22.4 | 196 | |
| A15 (8893703) | 15.3 | 0.41 | 2.8 | 0.026 | 1.58 | 12.8 | 16.0 | 0.71 | 383 | 0.83 | 2.20 | 6.1 | 25.3 | 199 | |
| A16 (8893704) | 14.2 | 0.40 | 2.1 | 0.023 | 1.66 | 11.6 | 10.2 | 0.63 | 299 | 0.48 | 2.31 | 4.9 | 20.6 | 337 | |
| A17 (8893705) | 14.2 | 0.45 | 2.0 | 0.026 | 1.60 | 13.7 | 13.6 | 0.59 | 268 | 0.67 | 2.13 | 6.1 | 26.3 | 343 | |
| A18 (8893706) | 15.8 | 0.51 | 3.5 | 0.032 | 1.58 | 14.8 | 14.1 | 0.71 | 367 | 0.90 | 2.10 | 7.3 | 27.7 | 415 | |
| A19 (8893707) | 14.3 | 0.55 | 1.9 | 0.024 | 1.59 | 9.9 | 10.8 | 0.64 | 353 | 0.39 | 2.25 | 5.7 | 24.6 | 620 | |
| A20 (8893708) | 15.5 | 0.57 | 1.6 | 0.025 | 1.73 | 11.7 | 11.8 | 0.56 | 276 | 0.57 | 2.30 | 5.4 | 20.7 | 370 | |
| A21 (8893709) | 15.4 | 0.59 | 3.1 | 0.032 | 1.58 | 13.7 | 13.9 | 0.57 | 696 | 0.69 | 1.95 | 7.4 | 21.2 | 512 | |
| B3 (8893710) | 15.3 | 0.65 | 2.4 | 0.027 | 1.80 | 29.1 | 16.5 | 0.92 | 359 | 0.45 | 2.32 | 6.2 | 31.3 | 550 | |
| B4 (8893711) | 16.4 | 0.54 | 2.1 | 0.029 | 1.86 | 19.7 | 19.7 | 1.04 | 361 | 0.35 | 2.44 | 6.3 | 33.7 | 533 | |
| B5 (8893712) | 15.2 | 0.57 | 2.2 | 0.031 | 1.66 | 16.8 | 15.8 | 1.10 | 457 | 0.55 | 2.50 | 11.7 | 32.1 | 594 | |
| B6 (8893713) | 16.3 | 0.57 | 2.5 | 0.023 | 1.81 | 21.0 | 18.0 | 0.98 | 365 | 0.49 | 2.29 | 7.9 | 31.7 | 515 | |
| B7 (8893714) | 15.9 | 0.61 | 3.5 | 0.034 | 1.61 | 21.5 | 13.5 | 1.11 | 482 | 0.36 | 2.39 | 7.1 | 28.3 | 666 | |
| B8 (8893715) | 15.5 | 0.66 | 2.6 | 0.033 | 1.54 | 12.2 | 23.9 | 0.94 | 435 | 0.61 | 1.83 | 7.6 | 43.0 | 389 | |
| B9 (8893716) | 15.0 | 0.62 | 3.3 | 0.034 | 1.55 | 16.5 | 19.3 | 0.86 | 455 | 0.49 | 2.02 | 8.5 | 31.8 | 301 | |
| B10 (8893717) | 15.3 | 0.62 | 2.7 | 0.032 | 1.61 | 14.3 | 23.6 | 0.83 | 345 | 0.68 | 1.91 | 8.0 | 43.0 | 441 | |
| B11 (8893718) | 15.9 | 0.62 | 3.7 | 0.034 | 1.63 | 16.0 | 21.4 | 0.78 | 332 | 1.71 | 1.97 | 7.9 | 36.2 | 268 | |
| B12 (8893719) | 20.6 | 0.39 | 3.9 | 0.044 | 2.12 | 18.0 | 27.7 | 1.16 | 506 | 0.94 | 2.80 | 10.4 | 46.6 | 462 | |
| B13 (8893720) | 15.0 | 0.53 | 1.9 | 0.024 | 1.74 | 9.6 | 13.6 | 0.60 | 298 | 0.58 | 2.44 | 4.3 | 20.4 | 207 | |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282580

PROJECT:

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 04, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|-------|-----|-------|------|-----------------------------|------|------|-----|------|--------------------|------|------|------|--|
| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P | |
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm | |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 | |
| B14 (8893721) | 17.9 | 0.57 | 3.3 | 0.039 | 1.60 | 19.8 | 20.8 | 0.91 | 454 | 0.68 | 2.00 | 8.5 | 36.0 | 255 | |
| B15 (8893722) | 17.5 | 0.62 | 2.8 | 0.029 | 1.49 | 20.7 | 13.1 | 0.49 | 324 | 0.62 | 1.86 | 14.6 | 15.5 | 316 | |
| B16 (8893723) | 17.8 | 0.62 | 3.3 | 0.029 | 1.54 | 17.6 | 12.8 | 0.64 | 349 | 0.89 | 1.79 | 9.2 | 19.2 | 194 | |
| B17 (8893724) | 13.3 | 0.60 | 2.4 | 0.021 | 1.69 | 13.0 | 10.1 | 0.63 | 289 | 0.31 | 2.27 | 5.0 | 21.9 | 173 | |
| B18 (8893725) | 13.8 | 0.60 | 2.2 | 0.023 | 1.57 | 12.2 | 12.0 | 0.64 | 287 | 0.29 | 2.19 | 5.6 | 22.0 | 321 | |
| B19 (8893726) | 16.9 | 0.61 | 2.6 | 0.040 | 1.31 | 16.8 | 24.0 | 0.67 | 281 | 0.58 | 1.68 | 9.1 | 24.2 | 389 | |
| B20 (8893727) | 14.1 | 0.69 | 2.5 | 0.040 | 1.06 | 7.6 | 20.7 | 0.55 | 260 | 0.74 | 1.40 | 6.4 | 29.5 | 586 | |
| B21 (8893728) | 16.2 | 0.69 | 2.1 | 0.027 | 1.45 | 18.9 | 18.5 | 0.67 | 285 | 0.53 | 2.07 | 7.6 | 36.4 | 403 | |
| B22 (8893729) | 16.4 | 0.72 | 3.3 | 0.045 | 1.35 | 21.7 | 31.1 | 0.78 | 418 | 0.94 | 1.51 | 15.8 | 46.2 | 612 | |
| B23 (8893730) | 17.5 | 0.66 | 2.7 | 0.046 | 1.46 | 15.2 | 28.3 | 1.04 | 453 | 0.99 | 1.77 | 8.1 | 61.1 | 503 | |
| C1 (8893731) | 15.0 | 0.69 | 2.4 | 0.037 | 1.50 | 12.0 | 23.6 | 0.58 | 250 | 0.81 | 1.61 | 8.0 | 34.4 | 571 | |
| C2 (8893732) | 18.1 | 0.64 | 2.5 | 0.037 | 1.54 | 10.1 | 25.4 | 0.76 | 515 | 1.40 | 1.74 | 8.3 | 31.0 | 346 | |
| C3 (8893733) | 15.2 | 0.65 | 3.1 | 0.030 | 1.70 | 16.4 | 20.8 | 0.88 | 388 | 0.54 | 2.05 | 8.6 | 38.1 | 263 | |
| C4 (8893734) | 19.0 | 0.71 | 2.9 | 0.043 | 1.83 | 14.1 | 29.5 | 1.23 | 430 | 0.79 | 1.55 | 17.5 | 62.5 | 428 | |
| C5 (8893735) | 17.0 | 0.14 | 3.0 | 0.028 | 1.93 | 14.3 | 23.7 | 0.65 | 256 | 1.01 | 1.62 | 10.1 | 26.2 | 203 | |
| C6 (8893736) | 17.0 | 0.13 | 3.0 | 0.038 | 1.85 | 14.9 | 23.7 | 0.82 | 337 | 0.91 | 1.69 | 10.6 | 37.0 | 259 | |
| C7 (8893737) | 16.8 | 0.18 | 3.1 | 0.036 | 1.76 | 14.7 | 22.0 | 0.90 | 398 | 0.83 | 1.71 | 10.2 | 41.7 | 211 | |
| C8 (8893738) | 18.9 | 0.19 | 3.2 | 0.039 | 1.61 | 15.0 | 26.0 | 0.86 | 438 | 1.10 | 1.63 | 11.0 | 38.9 | 279 | |
| C9 (8893739) | 17.4 | 0.15 | 3.2 | 0.037 | 1.93 | 15.4 | 37.4 | 1.08 | 420 | 0.51 | 1.89 | 10.2 | 40.6 | 170 | |
| C10 (8893740) | 16.7 | 0.14 | 3.1 | 0.039 | 1.74 | 15.3 | 43.3 | 1.10 | 467 | 0.73 | 1.79 | 10.1 | 44.3 | 205 | |
| C11 (8893741) | 23.1 | 0.09 | 3.4 | 0.052 | 1.64 | 10.8 | 65.0 | 2.07 | 711 | 0.62 | 1.63 | 11.0 | 64.6 | 252 | |
| C12 (8893742) | 19.7 | <0.05 | 2.7 | 0.059 | 1.94 | 14.6 | 36.9 | 1.05 | 339 | 1.16 | 1.59 | 10.9 | 48.3 | 386 | |
| C13 (8893743) | 17.6 | 0.11 | 3.2 | 0.039 | 1.79 | 22.5 | 25.1 | 0.86 | 384 | 0.81 | 1.69 | 10.0 | 38.4 | 630 | |
| C14 (8893744) | 18.2 | 0.22 | 2.5 | 0.053 | 1.29 | 20.7 | 38.6 | 3.08 | 409 | 1.09 | 0.97 | 43.5 | 95.9 | 940 | |
| C15 (8893745) | 20.9 | 0.12 | 2.2 | 0.046 | 1.82 | 14.5 | 35.7 | 1.10 | 392 | 1.08 | 1.44 | 11.4 | 67.1 | 1650 | |
| C16 (8893746) | 16.1 | 0.23 | 3.3 | 0.035 | 1.71 | 16.1 | 19.9 | 0.88 | 379 | 0.55 | 1.63 | 9.1 | 43.3 | 653 | |
| C17 (8893747) | 15.3 | 0.17 | 3.2 | 0.030 | 1.85 | 22.0 | 18.4 | 0.88 | 361 | 0.48 | 1.75 | 9.3 | 40.4 | 748 | |
| C18 (8893748) | 15.9 | 0.06 | 3.9 | 0.034 | 1.63 | 18.3 | 18.2 | 0.78 | 394 | 0.57 | 1.94 | 15.6 | 35.4 | 706 | |
| C19 (8893749) | 17.1 | <0.05 | 2.7 | 0.028 | 1.74 | 16.0 | 19.4 | 0.64 | 330 | 0.36 | 2.09 | 7.8 | 19.8 | 163 | |
| C20 (8893750) | 16.5 | 0.17 | 3.6 | 0.031 | 1.65 | 13.5 | 18.7 | 0.63 | 325 | 0.55 | 1.77 | 10.6 | 26.1 | 276 | |
| C21 (8893751) | 17.6 | <0.05 | 2.8 | 0.036 | 1.71 | 13.9 | 24.4 | 0.76 | 314 | 1.09 | 1.63 | 9.6 | 34.0 | 558 | |
| C22 (8893752) | 19.8 | <0.05 | 3.1 | 0.036 | 1.75 | 19.0 | 34.0 | 0.88 | 370 | 0.40 | 1.92 | 10.3 | 37.7 | 213 | |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282580

PROJECT:

 5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

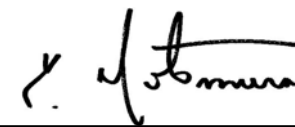
DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 04, 2018

SAMPLE TYPE: Other

| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P |
|---------------|------|-------|-----|-------|------|------|------|------|-----|------|------|------|------|------|
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 |
| C23 (8893753) | 15.4 | <0.05 | 2.2 | 0.026 | 1.55 | 7.0 | 17.5 | 0.63 | 315 | 0.36 | 2.02 | 5.1 | 17.9 | 69 |
| C24 (8893754) | 14.4 | <0.05 | 2.3 | 0.029 | 1.55 | 21.9 | 15.3 | 0.91 | 356 | 0.71 | 2.01 | 7.2 | 29.6 | 492 |
| C25 (8893755) | 19.4 | 0.11 | 3.0 | 0.039 | 1.84 | 28.2 | 34.3 | 1.10 | 385 | 0.29 | 1.74 | 10.7 | 46.3 | 234 |
| C26 (8893756) | 19.4 | 0.39 | 3.8 | 0.039 | 2.03 | 18.8 | 27.3 | 1.26 | 512 | 0.32 | 2.26 | 10.2 | 43.6 | 102 |
| D1 (8893757) | 17.4 | 0.11 | 2.8 | 0.039 | 1.69 | 13.1 | 27.5 | 0.82 | 339 | 0.74 | 1.61 | 10.0 | 46.1 | 580 |
| D2 (8893758) | 19.0 | <0.05 | 3.5 | 0.039 | 1.65 | 12.6 | 30.3 | 0.97 | 494 | 0.69 | 1.72 | 10.2 | 48.9 | 897 |
| D3 (8893759) | 15.5 | <0.05 | 1.9 | 0.029 | 1.83 | 11.3 | 18.0 | 0.78 | 306 | 0.39 | 2.01 | 6.6 | 36.8 | 335 |
| D4 (8893760) | 20.0 | 0.22 | 2.9 | 0.046 | 1.46 | 14.6 | 34.4 | 0.71 | 361 | 1.51 | 1.45 | 11.6 | 35.3 | 2060 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282580

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 04, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|------|--------|------|------|-----------------------------|------|------|-----|------|--------------------|-----|------|------|--|
| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl | |
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | |
| RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | 0.01 | |
| A1 (8893689) | 11.1 | 55.0 | <0.002 | 0.02 | 0.11 | 6.1 | 0.6 | 1.0 | 336 | 0.20 | <0.01 | 2.4 | 0.19 | 0.25 | |
| A2 (8893690) | 11.5 | 53.7 | <0.002 | 0.03 | 0.10 | 7.0 | 0.8 | 1.1 | 325 | 0.45 | <0.01 | 2.5 | 0.23 | 0.26 | |
| A3 (8893691) | 11.4 | 58.9 | <0.002 | 0.04 | 0.13 | 6.6 | 0.9 | 0.9 | 323 | 0.24 | <0.01 | 4.9 | 0.19 | 0.27 | |
| A4 (8893692) | 11.7 | 49.4 | <0.002 | 0.05 | 0.15 | 6.2 | 0.9 | 1.1 | 281 | 0.26 | <0.01 | 2.1 | 0.21 | 0.25 | |
| A5 (8893693) | 11.2 | 47.7 | <0.002 | 0.03 | 0.07 | 5.3 | 0.6 | 0.9 | 276 | 0.17 | <0.01 | 2.3 | 0.19 | 0.23 | |
| A6 (8893694) | 11.8 | 57.2 | <0.002 | 0.05 | 0.29 | 9.5 | 1.3 | 1.3 | 208 | 0.36 | 0.02 | 4.1 | 0.28 | 0.25 | |
| A7 (8893695) | 11.8 | 54.8 | <0.002 | 0.05 | 0.35 | 9.6 | 1.4 | 1.6 | 198 | 0.38 | <0.01 | 4.2 | 0.27 | 0.26 | |
| A8 (8893696) | 11.3 | 54.8 | <0.002 | 0.03 | 0.17 | 8.7 | 1.0 | 1.2 | 287 | 0.34 | 0.01 | 3.7 | 0.28 | 0.26 | |
| A9 (8893697) | 11.0 | 54.0 | <0.002 | 0.03 | 0.23 | 8.6 | 1.0 | 1.1 | 318 | 0.31 | 0.02 | 3.6 | 0.25 | 0.23 | |
| A10 (8893698) | 12.1 | 52.8 | <0.002 | 0.03 | 0.15 | 7.6 | 1.0 | 1.1 | 351 | 0.25 | 0.02 | 6.1 | 0.22 | 0.25 | |
| A11 (8893699) | 14.2 | 62.0 | <0.002 | 0.03 | 0.22 | 9.2 | 0.8 | 1.3 | 322 | 0.29 | <0.01 | 5.0 | 0.24 | 0.29 | |
| A12 (8893700) | 14.1 | 55.4 | <0.002 | 0.03 | 0.27 | 11.2 | 1.2 | 1.3 | 258 | 0.32 | 0.02 | 7.6 | 0.31 | 0.25 | |
| A13 (8893701) | 19.6 | 58.8 | <0.002 | 0.03 | 0.31 | 10.8 | 1.4 | 1.3 | 269 | 0.36 | 0.04 | 7.8 | 0.30 | 0.28 | |
| A14 (8893702) | 11.6 | 55.1 | <0.002 | 0.03 | 0.17 | 8.7 | 0.6 | 1.0 | 347 | 0.26 | <0.01 | 4.0 | 0.25 | 0.24 | |
| A15 (8893703) | 12.1 | 54.6 | <0.002 | 0.03 | 0.16 | 8.6 | 0.7 | 1.0 | 332 | 0.27 | <0.01 | 3.3 | 0.25 | 0.26 | |
| A16 (8893704) | 13.5 | 51.8 | <0.002 | 0.03 | 0.16 | 7.8 | 1.3 | 1.2 | 350 | 0.23 | <0.01 | 3.5 | 0.21 | 0.24 | |
| A17 (8893705) | 11.7 | 50.6 | <0.002 | 0.04 | 0.11 | 7.7 | 1.0 | 0.9 | 323 | 0.29 | <0.01 | 4.2 | 0.21 | 0.24 | |
| A18 (8893706) | 18.4 | 50.6 | <0.002 | 0.04 | 0.19 | 9.2 | 1.2 | 1.3 | 312 | 0.37 | 0.02 | 4.4 | 0.30 | 0.25 | |
| A19 (8893707) | 11.0 | 53.1 | <0.002 | 0.03 | 0.13 | 7.8 | 0.7 | 1.0 | 340 | 0.26 | <0.01 | 2.1 | 0.24 | 0.23 | |
| A20 (8893708) | 11.8 | 56.5 | <0.002 | 0.03 | 0.14 | 6.5 | 0.7 | 1.0 | 361 | 0.24 | <0.01 | 2.7 | 0.22 | 0.27 | |
| A21 (8893709) | 12.0 | 54.0 | <0.002 | 0.04 | 0.22 | 7.9 | 0.7 | 1.2 | 288 | 0.34 | <0.01 | 5.4 | 0.27 | 0.25 | |
| B3 (8893710) | 15.0 | 63.2 | <0.002 | 0.09 | 0.31 | 9.3 | 1.3 | 1.4 | 343 | 0.28 | <0.01 | 8.7 | 0.24 | 0.30 | |
| B4 (8893711) | 12.9 | 68.5 | <0.002 | 0.05 | 0.14 | 10.0 | 1.2 | 1.0 | 352 | 0.28 | <0.01 | 4.0 | 0.25 | 0.31 | |
| B5 (8893712) | 11.3 | 56.0 | <0.002 | 0.12 | 0.14 | 11.6 | <0.5 | 1.1 | 356 | 0.32 | <0.01 | 3.8 | 0.31 | 0.27 | |
| B6 (8893713) | 13.1 | 67.9 | <0.002 | 0.28 | 0.11 | 9.4 | 0.9 | 13.7 | 334 | 0.40 | <0.01 | 5.8 | 0.25 | 0.31 | |
| B7 (8893714) | 14.4 | 57.1 | <0.002 | 0.09 | 0.16 | 12.1 | 1.0 | 1.2 | 373 | 0.32 | <0.01 | 4.5 | 0.31 | 0.24 | |
| B8 (8893715) | 15.4 | 59.8 | <0.002 | 0.03 | 0.35 | 10.4 | 0.6 | 1.4 | 203 | 0.38 | <0.01 | 4.0 | 0.32 | 0.26 | |
| B9 (8893716) | 12.8 | 55.3 | <0.002 | 0.03 | 0.26 | 10.0 | 0.8 | 1.3 | 256 | 0.37 | <0.01 | 5.2 | 0.37 | 0.24 | |
| B10 (8893717) | 13.2 | 54.8 | <0.002 | 0.04 | 0.28 | 9.5 | 1.3 | 1.2 | 261 | 0.38 | <0.01 | 4.8 | 0.30 | 0.27 | |
| B11 (8893718) | 14.7 | 51.8 | <0.002 | 0.04 | 0.29 | 8.6 | 0.7 | 1.2 | 292 | 0.38 | 0.03 | 5.5 | 0.31 | 0.27 | |
| B12 (8893719) | 15.6 | 77.5 | <0.002 | 0.05 | 0.40 | 13.5 | 1.4 | 1.8 | 334 | 0.68 | 0.02 | 6.7 | 0.38 | 0.35 | |
| B13 (8893720) | 14.8 | 56.4 | <0.002 | 0.03 | 0.23 | 7.1 | 0.8 | 1.0 | 371 | 0.27 | 0.04 | 2.6 | 0.19 | 0.28 | |

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 17T282580

PROJECT:

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CANADA L4Z 1N9
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FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 04, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|------|--------|------|------|-----------------------------|-----|-----|-----|------|--------------------|-----|------|------|--|
| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl | |
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | |
| RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | 0.01 | |
| B14 (8893721) | 13.7 | 61.4 | <0.002 | 0.03 | 0.37 | 10.0 | 1.1 | 1.5 | 273 | 0.41 | 0.01 | 5.4 | 0.33 | 0.29 | |
| B15 (8893722) | 17.5 | 51.2 | <0.002 | 0.03 | 0.23 | 8.2 | 0.9 | 1.6 | 263 | 0.74 | 0.01 | 9.3 | 0.34 | 0.26 | |
| B16 (8893723) | 16.7 | 61.8 | <0.002 | 0.03 | 0.30 | 9.2 | 1.0 | 1.5 | 234 | 0.46 | 0.05 | 7.0 | 0.39 | 0.29 | |
| B17 (8893724) | 11.1 | 53.6 | <0.002 | 0.03 | 0.09 | 7.4 | 0.7 | 0.8 | 330 | 0.22 | <0.01 | 4.4 | 0.21 | 0.24 | |
| B18 (8893725) | 10.9 | 50.5 | <0.002 | 0.03 | 0.13 | 7.7 | 0.8 | 0.9 | 314 | 0.30 | 0.01 | 2.9 | 0.23 | 0.22 | |
| B19 (8893726) | 14.2 | 46.3 | <0.002 | 0.10 | 0.19 | 10.9 | 1.2 | 1.3 | 234 | 0.45 | <0.01 | 6.1 | 0.39 | 0.25 | |
| B20 (8893727) | 12.9 | 35.8 | <0.002 | 0.06 | 0.18 | 8.7 | 1.1 | 1.1 | 210 | 0.29 | 0.01 | 3.2 | 0.26 | 0.17 | |
| B21 (8893728) | 13.7 | 49.6 | <0.002 | 0.04 | 0.11 | 9.0 | 0.9 | 1.1 | 309 | 0.43 | 0.01 | 5.6 | 0.26 | 0.24 | |
| B22 (8893729) | 14.9 | 48.2 | <0.002 | 0.06 | 0.28 | 10.6 | 1.2 | 1.4 | 228 | 1.89 | 0.04 | 9.1 | 0.40 | 0.23 | |
| B23 (8893730) | 12.4 | 59.8 | <0.002 | 0.04 | 0.43 | 11.6 | 1.2 | 1.6 | 201 | 0.41 | 0.03 | 4.7 | 0.33 | 0.27 | |
| C1 (8893731) | 12.8 | 47.7 | <0.002 | 0.06 | 0.38 | 8.1 | 1.3 | 1.6 | 237 | 0.38 | <0.01 | 3.5 | 0.26 | 0.24 | |
| C2 (8893732) | 14.2 | 58.7 | <0.002 | 0.03 | 0.37 | 8.1 | 1.2 | 1.4 | 231 | 0.43 | 0.09 | 3.5 | 0.31 | 0.28 | |
| C3 (8893733) | 16.4 | 56.1 | <0.002 | 0.03 | 0.21 | 9.9 | 0.8 | 1.4 | 299 | 0.35 | <0.01 | 5.4 | 0.32 | 0.28 | |
| C4 (8893734) | 20.3 | 70.9 | <0.002 | 0.04 | 0.36 | 10.8 | 1.0 | 1.7 | 230 | 1.34 | 0.02 | 6.0 | 0.44 | 0.36 | |
| C5 (8893735) | 16.8 | 73.8 | <0.002 | 0.03 | 0.28 | 8.0 | 1.4 | 1.6 | 248 | 0.42 | 0.02 | 3.9 | 0.30 | 0.32 | |
| C6 (8893736) | 17.2 | 69.7 | <0.002 | 0.03 | 0.32 | 9.4 | 1.4 | 1.6 | 254 | 0.49 | 0.01 | 4.5 | 0.34 | 0.33 | |
| C7 (8893737) | 19.9 | 68.0 | <0.002 | 0.03 | 0.46 | 9.5 | 1.1 | 1.6 | 252 | 0.46 | 0.02 | 4.5 | 0.34 | 0.30 | |
| C8 (8893738) | 20.3 | 70.0 | <0.002 | 0.03 | 0.39 | 10.1 | 1.4 | 1.8 | 243 | 0.49 | 0.08 | 5.5 | 0.42 | 0.29 | |
| C9 (8893739) | 18.9 | 71.5 | <0.002 | 0.04 | 0.27 | 10.7 | 0.9 | 1.4 | 275 | 0.44 | <0.01 | 4.5 | 0.40 | 0.29 | |
| C10 (8893740) | 15.7 | 63.0 | <0.002 | 0.04 | 0.27 | 11.0 | 0.9 | 1.4 | 257 | 0.45 | 0.04 | 5.7 | 0.45 | 0.27 | |
| C11 (8893741) | 19.6 | 73.4 | <0.002 | 0.07 | 0.64 | 16.8 | 1.5 | 2.1 | 195 | 0.61 | 0.05 | 5.4 | 0.52 | 0.37 | |
| C12 (8893742) | 19.9 | 75.5 | 0.022 | 0.03 | 0.36 | 9.9 | 1.2 | 1.6 | 231 | 0.58 | 0.07 | 3.7 | 0.34 | 0.37 | |
| C13 (8893743) | 21.4 | 69.6 | <0.002 | 0.04 | 0.61 | 9.2 | 1.2 | 1.7 | 250 | 0.60 | 0.06 | 9.4 | 0.35 | 0.31 | |
| C14 (8893744) | 19.8 | 55.1 | <0.002 | 0.05 | 0.43 | 11.4 | 2.3 | 1.5 | 149 | 1.95 | 0.07 | 7.0 | 0.55 | 0.23 | |
| C15 (8893745) | 26.0 | 79.2 | <0.002 | 0.05 | 0.47 | 11.0 | 1.6 | 1.8 | 202 | 0.51 | 0.05 | 5.3 | 0.31 | 0.35 | |
| C16 (8893746) | 13.9 | 61.7 | <0.002 | 0.04 | 0.25 | 9.2 | 1.0 | 1.3 | 240 | 0.44 | 0.01 | 4.7 | 0.29 | 0.29 | |
| C17 (8893747) | 14.2 | 63.4 | <0.002 | 0.03 | 0.23 | 9.2 | 1.1 | 1.3 | 246 | 0.39 | 0.03 | 8.2 | 0.29 | 0.31 | |
| C18 (8893748) | 14.1 | 59.0 | <0.002 | 0.04 | 0.20 | 9.3 | 1.2 | 1.4 | 288 | 1.52 | <0.01 | 6.6 | 0.33 | 0.25 | |
| C19 (8893749) | 17.4 | 69.2 | <0.002 | 0.03 | 0.27 | 8.0 | 1.1 | 1.4 | 310 | 0.30 | <0.01 | 6.3 | 0.33 | 0.28 | |
| C20 (8893750) | 14.8 | 59.0 | <0.002 | 0.03 | 0.80 | 8.4 | 0.8 | 1.3 | 262 | 0.61 | <0.01 | 5.3 | 0.34 | 0.26 | |
| C21 (8893751) | 18.1 | 69.7 | <0.002 | 0.03 | 0.27 | 9.1 | 1.2 | 1.3 | 245 | 0.45 | 0.03 | 4.0 | 0.35 | 0.30 | |
| C22 (8893752) | 18.6 | 70.5 | <0.002 | 0.04 | 0.31 | 9.3 | 0.9 | 1.5 | 281 | 0.47 | 0.05 | 7.2 | 0.35 | 0.31 | |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282580

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 04, 2018

SAMPLE TYPE: Other

| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl |
|---------------|------|------|--------|------|------|------|-----|-----|-----|------|-------|-----|------|------|
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm |
| RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | 0.01 |
| C23 (8893753) | 11.5 | 60.5 | <0.002 | 0.03 | 0.19 | 8.2 | 0.5 | 1.0 | 266 | 0.18 | <0.01 | 2.2 | 0.31 | 0.25 |
| C24 (8893754) | 11.3 | 58.0 | <0.002 | 0.12 | 0.18 | 10.1 | 0.9 | 1.0 | 304 | 0.32 | 0.01 | 5.0 | 0.28 | 0.25 |
| C25 (8893755) | 15.3 | 79.7 | <0.002 | 0.03 | 0.41 | 13.2 | 1.0 | 1.6 | 233 | 0.54 | 0.03 | 7.8 | 0.34 | 0.43 |
| C26 (8893756) | 13.5 | 72.7 | <0.002 | 0.03 | 0.26 | 13.5 | 1.0 | 1.8 | 309 | 0.49 | <0.01 | 6.3 | 0.41 | 0.36 |
| D1 (8893757) | 15.4 | 65.1 | <0.002 | 0.04 | 0.29 | 9.3 | 1.2 | 1.5 | 235 | 0.47 | 0.03 | 4.3 | 0.34 | 0.30 |
| D2 (8893758) | 15.0 | 68.8 | <0.002 | 0.04 | 0.31 | 11.1 | 1.9 | 1.5 | 262 | 0.45 | 0.05 | 4.2 | 0.42 | 0.27 |
| D3 (8893759) | 13.9 | 67.0 | <0.002 | 0.03 | 0.15 | 7.7 | 0.6 | 1.0 | 307 | 0.29 | 0.02 | 5.1 | 0.24 | 0.30 |
| D4 (8893760) | 16.5 | 60.5 | <0.002 | 0.05 | 0.34 | 9.8 | 1.7 | 1.7 | 209 | 0.54 | 0.36 | 5.0 | 0.44 | 0.25 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282580

PROJECT:

5623 McADAM ROAD
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 TEL (905)501-9998
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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | DATE REPORTED: Jan 04, 2018 | | | SAMPLE TYPE: Other |
|----------------------------|-----------------------------|-------|------|-----------------------------|------|------|--------------------|
| Analyte: | U | V | W | Y | Zn | Zr | |
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm | |
| Sample ID (AGAT ID) | RDL: | 0.005 | 0.5 | 0.1 | 0.1 | 0.5 | 0.5 |
| A1 (8893689) | | 0.520 | 35.5 | 0.1 | 8.4 | 20.5 | 99.5 |
| A2 (8893690) | | 0.620 | 51.1 | 0.1 | 9.0 | 23.1 | 126 |
| A3 (8893691) | | 0.632 | 44.5 | 0.1 | 9.6 | 23.1 | 124 |
| A4 (8893692) | | 0.520 | 53.4 | 0.1 | 7.6 | 25.5 | 71.0 |
| A5 (8893693) | | 0.614 | 38.2 | <0.1 | 6.8 | 16.7 | 98.8 |
| A6 (8893694) | | 1.10 | 68.0 | 0.4 | 12.3 | 34.5 | 116 |
| A7 (8893695) | | 1.26 | 69.9 | 0.4 | 13.7 | 60.8 | 129 |
| A8 (8893696) | | 0.907 | 60.9 | 0.3 | 11.3 | 47.6 | 159 |
| A9 (8893697) | | 0.799 | 57.7 | 0.2 | 13.4 | 30.3 | 155 |
| A10 (8893698) | | 0.669 | 58.2 | 0.2 | 11.6 | 30.7 | 97.0 |
| A11 (8893699) | | 0.971 | 59.7 | 0.2 | 14.6 | 40.2 | 129 |
| A12 (8893700) | | 1.39 | 76.2 | 0.3 | 20.4 | 44.9 | 153 |
| A13 (8893701) | | 1.52 | 70.2 | 0.3 | 26.8 | 204 | 159 |
| A14 (8893702) | | 0.968 | 55.1 | 0.2 | 16.9 | 33.2 | 128 |
| A15 (8893703) | | 0.848 | 55.3 | 0.2 | 13.5 | 39.1 | 149 |
| A16 (8893704) | | 0.678 | 49.4 | 0.1 | 12.5 | 26.4 | 115 |
| A17 (8893705) | | 0.811 | 50.4 | 0.1 | 11.1 | 33.6 | 105 |
| A18 (8893706) | | 1.12 | 70.5 | 0.4 | 13.9 | 43.8 | 197 |
| A19 (8893707) | | 0.626 | 61.1 | 0.1 | 11.4 | 52.9 | 105 |
| A20 (8893708) | | 0.566 | 55.5 | 0.1 | 9.5 | 30.8 | 88.8 |
| A21 (8893709) | | 1.00 | 59.4 | 0.4 | 11.2 | 64.8 | 162 |
| B3 (8893710) | | 1.90 | 65.0 | 0.4 | 16.5 | 47.8 | 133 |
| B4 (8893711) | | 1.06 | 57.9 | 0.5 | 17.3 | 40.6 | 119 |
| B5 (8893712) | | 0.872 | 98.0 | 0.3 | 16.5 | 41.2 | 121 |
| B6 (8893713) | | 0.896 | 57.5 | 0.2 | 16.0 | 39.9 | 136 |
| B7 (8893714) | | 0.933 | 81.3 | 0.2 | 20.9 | 38.5 | 198 |
| B8 (8893715) | | 1.21 | 84.3 | 0.6 | 14.1 | 51.0 | 138 |
| B9 (8893716) | | 1.01 | 77.4 | 0.3 | 15.5 | 37.5 | 195 |
| B10 (8893717) | | 1.03 | 68.7 | 0.3 | 13.1 | 48.3 | 143 |
| B11 (8893718) | | 1.14 | 81.0 | 0.2 | 12.1 | 50.1 | 210 |
| B12 (8893719) | | 1.63 | 88.7 | 0.5 | 19.0 | 49.6 | 222 |
| B13 (8893720) | | 0.660 | 49.7 | 0.2 | 9.8 | 33.8 | 91.2 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282580

PROJECT:

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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | DATE REPORTED: Jan 04, 2018 | | SAMPLE TYPE: Other |
|----------------------------|-----------------------------|------|-----|------|-----------------------------|-----|--------------------|
| Analyte: | U | V | W | Y | Zn | Zr | |
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm | |
| RDL: | 0.005 | 0.5 | 0.1 | 0.1 | 0.5 | 0.5 | |
| B14 (8893721) | 1.16 | 75.1 | 0.3 | 16.5 | 54.3 | 184 | |
| B15 (8893722) | 1.28 | 65.1 | 0.4 | 14.7 | 56.2 | 154 | |
| B16 (8893723) | 1.26 | 88.9 | 0.4 | 12.1 | 41.5 | 177 | |
| B17 (8893724) | 0.747 | 40.4 | 0.1 | 10.9 | 22.8 | 128 | |
| B18 (8893725) | 0.660 | 44.0 | 0.2 | 10.9 | 24.4 | 125 | |
| B19 (8893726) | 1.38 | 62.7 | 0.3 | 13.3 | 34.7 | 145 | |
| B20 (8893727) | 0.823 | 84.3 | 0.2 | 9.4 | 33.8 | 128 | |
| B21 (8893728) | 1.01 | 51.5 | 0.2 | 13.3 | 29.8 | 116 | |
| B22 (8893729) | 1.27 | 99.7 | 0.4 | 14.6 | 57.8 | 179 | |
| B23 (8893730) | 1.39 | 91.8 | 0.5 | 18.3 | 72.2 | 157 | |
| C1 (8893731) | 0.846 | 53.5 | 0.3 | 9.6 | 64.6 | 131 | |
| C2 (8893732) | 0.946 | 83.9 | 0.4 | 9.4 | 57.3 | 142 | |
| C3 (8893733) | 1.02 | 70.2 | 0.3 | 13.3 | 42.0 | 183 | |
| C4 (8893734) | 1.04 | 92.2 | 0.4 | 12.4 | 63.5 | 148 | |
| C5 (8893735) | 0.922 | 66.0 | 0.4 | 10.9 | 45.8 | 177 | |
| C6 (8893736) | 1.03 | 76.3 | 0.4 | 12.6 | 48.7 | 167 | |
| C7 (8893737) | 1.01 | 80.1 | 0.3 | 12.9 | 56.7 | 176 | |
| C8 (8893738) | 1.02 | 105 | 0.4 | 13.8 | 56.0 | 189 | |
| C9 (8893739) | 1.01 | 76.1 | 0.3 | 13.4 | 68.4 | 186 | |
| C10 (8893740) | 1.03 | 82.4 | 0.3 | 13.9 | 53.0 | 173 | |
| C11 (8893741) | 1.61 | 121 | 0.7 | 16.5 | 73.0 | 171 | |
| C12 (8893742) | 1.05 | 80.2 | 0.5 | 12.7 | 63.6 | 144 | |
| C13 (8893743) | 1.23 | 78.5 | 0.4 | 12.9 | 74.7 | 178 | |
| C14 (8893744) | 1.36 | 99.1 | 1.1 | 12.0 | 85.3 | 139 | |
| C15 (8893745) | 1.20 | 87.4 | 0.5 | 13.0 | 105 | 115 | |
| C16 (8893746) | 1.02 | 68.5 | 0.4 | 12.6 | 74.3 | 174 | |
| C17 (8893747) | 1.08 | 62.8 | 0.3 | 13.1 | 65.5 | 185 | |
| C18 (8893748) | 1.20 | 75.8 | 0.5 | 15.3 | 61.3 | 220 | |
| C19 (8893749) | 0.805 | 46.5 | 0.2 | 11.7 | 43.0 | 159 | |
| C20 (8893750) | 0.960 | 65.9 | 0.3 | 11.4 | 32.8 | 209 | |
| C21 (8893751) | 1.03 | 76.8 | 0.4 | 13.1 | 66.2 | 161 | |
| C22 (8893752) | 0.953 | 58.4 | 0.3 | 14.1 | 53.9 | 170 | |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282580

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 04, 2018

SAMPLE TYPE: Other

| Sample ID (AGAT ID) | Analyte: | U | V | W | Y | Zn | Zr |
|---------------------|----------|-------|------|-----|------|------|-----|
| | Unit: | ppm | ppm | ppm | ppm | ppm | ppm |
| | RDL: | 0.005 | 0.5 | 0.1 | 0.1 | 0.5 | 0.5 |
| C23 (8893753) | | 0.747 | 48.2 | 0.1 | 9.9 | 30.1 | 122 |
| C24 (8893754) | | 1.05 | 64.0 | 0.2 | 19.1 | 34.6 | 133 |
| C25 (8893755) | | 1.96 | 86.4 | 0.6 | 22.1 | 45.1 | 170 |
| C26 (8893756) | | 1.47 | 92.5 | 0.4 | 20.4 | 42.9 | 228 |
| D1 (8893757) | | 0.963 | 74.6 | 0.4 | 12.3 | 65.1 | 155 |
| D2 (8893758) | | 1.08 | 104 | 0.3 | 16.6 | 49.1 | 197 |
| D3 (8893759) | | 0.663 | 56.8 | 0.2 | 9.2 | 33.6 | 103 |
| D4 (8893760) | | 1.17 | 121 | 0.5 | 12.9 | 106 | 159 |

Comments: RDL - Reported Detection Limit

8893689-8893760 As, Sb values may be low due to digestion losses.

Certified By:



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| Parameter | REPLICATE #1 | | | | REPLICATE #2 | | | | REPLICATE #3 | | | | REPLICATE #4 | | | |
|-----------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|
| | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD |
| Ag | 8893689 | 0.24 | 0.11 | | 8893709 | 0.43 | 0.45 | 4.5% | 8893729 | 0.338 | 0.285 | 17.0% | 8893750 | 0.24 | 0.24 | 0.0% |
| Al | 8893689 | 5.79 | 5.87 | 1.4% | 8893709 | 6.26 | 6.19 | 1.1% | 8893729 | 7.70 | 7.58 | 1.6% | 8893750 | 6.25 | 6.42 | 2.7% |
| As | 8893689 | 0.9 | 0.8 | 11.8% | 8893709 | 2.7 | 2.1 | 25.0% | 8893729 | 6.88 | 5.11 | 29.5% | 8893750 | 2.9 | 2.4 | 18.9% |
| Ba | 8893689 | 541 | 533 | 1.5% | 8893709 | 484 | 479 | 1.0% | 8893729 | 403 | 382 | 5.4% | 8893750 | 492 | 513 | 4.2% |
| Be | 8893689 | 1.17 | 1.09 | 7.1% | 8893709 | 1.28 | 1.34 | 4.6% | 8893729 | 1.52 | 1.42 | 6.8% | 8893750 | 1.18 | 1.39 | 16.3% |
| Bi | 8893689 | 0.063 | 0.055 | 13.6% | 8893709 | 0.10 | 0.10 | 0.0% | 8893729 | 0.16 | 0.16 | 0.0% | 8893750 | 0.103 | 0.108 | 4.7% |
| Ca | 8893689 | 1.45 | 1.45 | 0.0% | 8893709 | 1.42 | 1.39 | 2.1% | 8893729 | 1.24 | 1.21 | 2.4% | 8893750 | 1.33 | 1.37 | 3.0% |
| Cd | 8893689 | 0.028 | 0.036 | 25.0% | 8893709 | 0.145 | 0.137 | 5.7% | 8893729 | 0.171 | 0.165 | 3.6% | 8893750 | 0.079 | 0.095 | 18.4% |
| Ce | 8893689 | 17.4 | 16.9 | 2.9% | 8893709 | 28.1 | 25.5 | 9.7% | 8893729 | 45.1 | 39.1 | 14.3% | 8893750 | 28.0 | 33.2 | 17.0% |
| Co | 8893689 | 6.46 | 6.65 | 2.9% | 8893709 | 14.0 | 13.5 | 3.6% | 8893729 | 20.5 | 19.3 | 6.0% | 8893750 | 11.6 | 12.3 | 5.9% |
| Cr | 8893689 | 39.8 | 40.8 | 2.5% | 8893709 | 60.5 | 55.5 | 8.6% | 8893729 | 111 | 103 | 7.5% | 8893750 | 69.8 | 74.1 | 6.0% |
| Cs | 8893689 | 1.05 | 1.07 | 1.9% | 8893709 | 1.46 | 1.50 | 2.7% | 8893729 | 1.70 | 1.60 | 6.1% | 8893750 | 1.74 | 1.85 | 6.1% |
| Cu | 8893689 | 3.3 | 2.9 | 12.9% | 8893709 | 8.3 | 8.2 | 1.2% | 8893729 | 17.0 | 16.7 | 1.8% | 8893750 | 7.72 | 8.22 | 6.3% |
| Fe | 8893689 | 1.22 | 1.24 | 1.6% | 8893709 | 2.26 | 2.23 | 1.3% | 8893729 | 4.50 | 4.43 | 1.6% | 8893750 | 2.22 | 2.27 | 2.2% |
| Ga | 8893689 | 13.8 | 14.7 | 6.3% | 8893709 | 15.4 | 15.2 | 1.3% | 8893729 | 16.4 | 15.3 | 6.9% | 8893750 | 16.5 | 17.3 | 4.7% |
| Ge | 8893689 | 0.229 | 0.256 | 11.1% | 8893709 | 0.591 | 0.541 | 8.8% | 8893729 | 0.72 | 0.72 | 0.0% | 8893750 | 0.17 | 0.15 | 12.5% |
| Hf | 8893689 | 1.83 | 1.86 | 1.6% | 8893709 | 3.10 | 2.61 | 17.2% | 8893729 | 3.32 | 3.72 | 11.4% | 8893750 | 3.61 | 3.12 | 14.6% |
| In | 8893689 | 0.0193 | 0.0201 | 4.1% | 8893709 | 0.032 | 0.032 | 0.0% | 8893729 | 0.0449 | 0.0445 | 0.9% | 8893750 | 0.031 | 0.031 | 0.0% |
| K | 8893689 | 1.72 | 1.71 | 0.6% | 8893709 | 1.58 | 1.57 | 0.6% | 8893729 | 1.35 | 1.28 | 5.3% | 8893750 | 1.65 | 1.69 | 2.4% |
| La | 8893689 | 8.5 | 8.1 | 4.8% | 8893709 | 13.7 | 12.2 | 11.6% | 8893729 | 21.7 | 18.9 | 13.8% | 8893750 | 13.5 | 16.4 | 19.4% |
| Li | 8893689 | 9.3 | 9.3 | 0.0% | 8893709 | 13.9 | 13.8 | 0.7% | 8893729 | 31.1 | 30.1 | 3.3% | 8893750 | 18.7 | 19.3 | 3.2% |
| Mg | 8893689 | 0.522 | 0.526 | 0.8% | 8893709 | 0.57 | 0.57 | 0.0% | 8893729 | 0.775 | 0.754 | 2.7% | 8893750 | 0.63 | 0.65 | 3.1% |
| Mn | 8893689 | 250 | 253 | 1.2% | 8893709 | 696 | 667 | 4.3% | 8893729 | 418 | 415 | 0.7% | 8893750 | 325 | 325 | 0.0% |
| Mo | 8893689 | 0.31 | 0.31 | 0.0% | 8893709 | 0.69 | 0.72 | 4.3% | 8893729 | 0.94 | 0.89 | 5.5% | 8893750 | 0.553 | 0.641 | 14.7% |
| Na | 8893689 | 2.27 | 2.28 | 0.4% | 8893709 | 1.95 | 1.90 | 2.6% | 8893729 | 1.51 | 1.46 | 3.4% | 8893750 | 1.77 | 1.83 | 3.3% |
| Nb | 8893689 | 4.44 | 5.03 | 12.5% | 8893709 | 7.42 | 8.16 | 9.5% | 8893729 | 15.8 | 14.0 | 12.1% | 8893750 | 10.6 | 10.0 | 5.8% |
| Ni | 8893689 | 16.2 | 16.2 | 0.0% | 8893709 | 21.2 | 21.2 | 0.0% | 8893729 | 46.2 | 41.2 | 11.4% | 8893750 | 26.1 | 27.3 | 4.5% |
| P | 8893689 | 228 | 208 | 9.2% | 8893709 | 512 | 517 | 1.0% | 8893729 | 612 | 594 | 3.0% | 8893750 | 276 | 292 | 5.6% |
| Pb | 8893689 | 11.1 | 11.1 | 0.0% | 8893709 | 12.0 | 11.5 | 4.3% | 8893729 | 14.9 | 14.0 | 6.2% | 8893750 | 14.8 | 15.8 | 6.5% |
| Rb | 8893689 | 55.0 | 55.8 | 1.4% | 8893709 | 54.0 | 56.6 | 4.7% | 8893729 | 48.2 | 45.0 | 6.9% | 8893750 | 59.0 | 63.9 | 8.0% |
| Re | 8893689 | < 0.002 | < 0.002 | 0.0% | 8893709 | < 0.002 | < 0.002 | 0.0% | 8893729 | < 0.002 | < 0.002 | 0.0% | 8893750 | < 0.002 | < 0.002 | 0.0% |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

| | | | | | | | | | | | | | | | | |
|----|---------|--------|--------|-------|---------|--------|-------|-------|---------|-------|-------|-------|---------|--------|-------|-------|
| S | 8893689 | 0.02 | 0.02 | 0.0% | 8893709 | 0.04 | 0.04 | 0.0% | 8893729 | 0.06 | 0.06 | 0.0% | 8893750 | 0.03 | 0.03 | 0.0% |
| Sb | 8893689 | 0.110 | 0.084 | 26.8% | 8893709 | 0.224 | 0.241 | 7.3% | 8893729 | 0.278 | 0.260 | 6.7% | 8893750 | 0.80 | 0.50 | |
| Sc | 8893689 | 6.14 | 6.27 | 2.1% | 8893709 | 7.9 | 7.9 | 0.0% | 8893729 | 10.6 | 10.4 | 1.9% | 8893750 | 8.4 | 8.6 | 2.4% |
| Se | 8893689 | 0.6 | 0.8 | 28.6% | 8893709 | 0.7 | 1.2 | | 8893729 | 1.2 | 1.3 | 8.0% | 8893750 | 0.85 | 1.02 | 18.2% |
| Sn | 8893689 | 1.0 | 1.2 | 18.2% | 8893709 | 1.21 | 1.35 | 10.9% | 8893729 | 1.41 | 1.33 | 5.8% | 8893750 | 1.3 | 1.5 | 14.3% |
| Sr | 8893689 | 336 | 346 | 2.9% | 8893709 | 288 | 288 | 0.0% | 8893729 | 228 | 227 | 0.4% | 8893750 | 262 | 275 | 4.8% |
| Ta | 8893689 | 0.20 | 0.23 | 14.0% | 8893709 | 0.343 | 0.351 | 2.3% | 8893729 | 1.89 | 1.51 | 22.4% | 8893750 | 0.61 | 0.50 | 19.8% |
| Te | 8893689 | < 0.01 | < 0.01 | 0.0% | 8893709 | < 0.01 | 0.01 | | 8893729 | 0.04 | 0.03 | | 8893750 | < 0.01 | 0.02 | |
| Th | 8893689 | 2.4 | 2.1 | 13.3% | 8893709 | 5.4 | 4.6 | 16.0% | 8893729 | 9.1 | 7.7 | 16.7% | 8893750 | 5.3 | 6.2 | 15.7% |
| Ti | 8893689 | 0.19 | 0.19 | 0.0% | 8893709 | 0.272 | 0.277 | 1.8% | 8893729 | 0.40 | 0.40 | 0.0% | 8893750 | 0.339 | 0.333 | 1.8% |
| Tl | 8893689 | 0.25 | 0.26 | 3.9% | 8893709 | 0.25 | 0.25 | 0.0% | 8893729 | 0.23 | 0.22 | 4.4% | 8893750 | 0.26 | 0.28 | 7.4% |
| U | 8893689 | 0.520 | 0.525 | 1.0% | 8893709 | 1.00 | 0.838 | 17.6% | 8893729 | 1.27 | 1.10 | 14.3% | 8893750 | 0.960 | 0.955 | 0.5% |
| V | 8893689 | 35.5 | 36.4 | 2.5% | 8893709 | 59.4 | 61.5 | 3.5% | 8893729 | 99.7 | 95.9 | 3.9% | 8893750 | 65.9 | 67.0 | 1.7% |
| W | 8893689 | 0.1 | 0.1 | 0.0% | 8893709 | 0.4 | 0.2 | | 8893729 | 0.4 | 0.4 | 0.0% | 8893750 | 0.3 | 0.3 | 0.0% |
| Y | 8893689 | 8.4 | 9.1 | 8.0% | 8893709 | 11.2 | 10.8 | 3.6% | 8893729 | 14.6 | 13.6 | 7.1% | 8893750 | 11.4 | 12.6 | 10.0% |
| Zn | 8893689 | 20.5 | 19.3 | 6.0% | 8893709 | 64.8 | 64.0 | 1.2% | 8893729 | 57.8 | 55.8 | 3.5% | 8893750 | 32.8 | 36.7 | 11.2% |
| Zr | 8893689 | 99.5 | 96.9 | 2.6% | 8893709 | 162 | 152 | 6.4% | 8893729 | 179 | 186 | 3.8% | 8893750 | 209 | 186 | 11.6% |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| Parameter | CRM #1 (ref.SY-4) | | | | CRM #2 (ref.GTS-2A) | | | | CRM #3 (ref.Till-2) | | | | CRM #4 (ref.SY-4) | | | |
|-----------|---------------------|--------|----------|------------|---------------------|--------|----------|------------|---------------------|--------|----------|------------|---------------------|--------|----------|------------|
| | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits |
| Al | 10.95 | 10.4 | 95% | 90% - 110% | 6.96 | 6.91 | 99% | 90% - 110% | | | | | | | | |
| As | | | | | 124 | 124 | 100% | 90% - 110% | | | | | | | | |
| Ba | 340 | 323 | 95% | 90% - 110% | 186 | 185 | 100% | 90% - 110% | | | | | | | | |
| Be | 2.6 | 2.8 | 107% | 90% - 110% | | | | | | | | | | | | |
| Ca | 5.72 | 5.39 | 94% | 90% - 110% | 4.01 | 4 | 100% | 90% - 110% | | | | | | | | |
| Ce | 122 | 127 | 104% | 90% - 110% | 24 | 24 | 100% | 90% - 110% | | | | | | | | |
| Co | 2.8 | 3 | 107% | 90% - 110% | 22.1 | 24.1 | 109% | 90% - 110% | | | | | 2.8 | 3.0 | 107% | 90% - 110% |
| Cs | 1.5 | 1.7 | 113% | 90% - 110% | | | | | | | | | | | | |
| Cu | 7 | 5 | 73% | 90% - 110% | 88.6 | 85.7 | 97% | 90% - 110% | | | | | | | | |
| Fe | 4.34 | 3.77 | 86% | 90% - 110% | 7.56 | 7 | 93% | 90% - 110% | | | | | | | | |
| Ga | 35 | 38 | 108% | 90% - 110% | | | | | | | | | | | | |
| K | 1.37 | 1.35 | 98% | 90% - 110% | 2.021 | 2.031 | 101% | 90% - 110% | | | | | | | | |
| La | 58 | 60 | 103% | 90% - 110% | | | | | | | | | | | | |
| Li | 37 | 37 | 101% | 90% - 110% | | | | | | | | | | | | |
| Mg | 0.325 | 0.291 | 90% | 90% - 110% | 2.412 | 2.436 | 101% | 90% - 110% | | | | | | | | |
| Mn | | | | | 1510 | 1402 | 93% | 90% - 110% | | | | | | | | |
| Na | 5.267 | 5.213 | 99% | 90% - 110% | 0.617 | 0.635 | 103% | 90% - 110% | | | | | | | | |
| Ni | 9 | 7 | 79% | 90% - 110% | 77.1 | 71.1 | 92% | 90% - 110% | | | | | | | | |
| P | | | | | 892 | 938 | 105% | 90% - 110% | | | | | | | | |
| Pb | 10 | 10 | 97% | 90% - 110% | | | | | | | | | | | | |
| Rb | 55 | 57.9 | 105% | 90% - 110% | | | | | | | | | | | | |
| S | | | | | 0.348 | 0.378 | 108% | 90% - 110% | | | | | | | | |
| Sr | 1191 | 1161 | 97% | 90% - 110% | 92.8 | 90.2 | 97% | 90% - 110% | | | | | | | | |
| Ta | 0.9 | 1 | 109% | 90% - 110% | | | | | | | | | | | | |
| Th | 1.4 | 1.3 | 95% | 90% - 110% | | | | | | | | | | | | |
| Ti | 0.172 | 0.155 | 90% | 90% - 110% | | | | | | | | | | | | |
| V | 8 | 6 | 81% | 90% - 110% | | | | | 77 | 77 | 100% | 90% - 110% | 8 | 6 | 79% | 90% - 110% |
| Zn | 93 | 86 | 93% | 90% - 110% | 208 | 202 | 97% | 90% - 110% | | | | | | | | |
| Parameter | CRM #5 (ref.Till-2) | | | | CRM #6 (ref.GTS-2A) | | | | CRM #7 (ref.SY-4) | | | | CRM #8 (ref.GTS-2A) | | | |
| | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits |
| Al | 8.17 | 8.26 | 101% | 90% - 110% | | | | | 10.95 | 10.33 | 94% | 90% - 110% | 6.96 | 7.05 | 101% | 90% - 110% |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

| | | | | | | | | | | | | | | | | |
|----|-------|-------|------|------------|------|------|------|------------|-------|-------|------|------------|-------|-------|------------|------------|
| As | 26 | 24.4 | 94% | 90% - 110% | | | | | | | | 124 | 128 | 103% | 90% - 110% | |
| Ba | 540 | 533 | 99% | 90% - 110% | | | | | 340 | 319 | 94% | 90% - 110% | 186 | 188 | 101% | 90% - 110% |
| Be | 4.0 | 4.2 | 106% | 90% - 110% | | | | | 2.6 | 2.9 | 111% | 90% - 110% | | | | |
| Ca | 0.907 | 0.929 | 102% | 90% - 110% | | | | | 5.72 | 5.39 | 94% | 90% - 110% | 4.01 | 4.14 | 103% | 90% - 110% |
| Ce | 98 | 103 | 105% | 90% - 110% | | | | | 122 | 118 | 96% | 90% - 110% | 24 | 24 | 98% | 90% - 110% |
| Co | | | | | 22.1 | 23.8 | 107% | 90% - 110% | | | | | | | | |
| Cr | 60.3 | 59.5 | 99% | 90% - 110% | | | | | | | | | | | | |
| Cs | 12 | 12 | 103% | 90% - 110% | | | | | 1.5 | 1.7 | 115% | 90% - 110% | | | | |
| Cu | 150 | 147 | 98% | 90% - 110% | | | | | | | | | 88.6 | 87.4 | 99% | 90% - 110% |
| Fe | 3.77 | 3.58 | 95% | 90% - 110% | | | | | 4.34 | 3.78 | 87% | 90% - 110% | 7.56 | 7.32 | 97% | 90% - 110% |
| Ga | | | | | | | | | 35 | 37 | 105% | 90% - 110% | | | | |
| K | | | | | | | | | 1.37 | 1.29 | 94% | 90% - 110% | 2.021 | 2.072 | 103% | 90% - 110% |
| La | 44 | 46 | 104% | 90% - 110% | | | | | 58 | 54 | 93% | 90% - 110% | | | | |
| Li | 47 | 46 | 97% | 90% - 110% | | | | | 37 | 36 | 98% | 90% - 110% | | | | |
| Mg | 1.10 | 1.07 | 98% | 90% - 110% | | | | | 0.325 | 0.286 | 88% | 90% - 110% | 2.412 | 2.483 | 103% | 90% - 110% |
| Mn | 780 | 729 | 93% | 90% - 110% | | | | | | | | | 1510 | 1455 | 96% | 90% - 110% |
| Mo | 14 | 15 | 107% | 90% - 110% | | | | | | | | | | | | |
| Na | 1.624 | 1.685 | 104% | 90% - 110% | | | | | 5.267 | 5.054 | 96% | 90% - 110% | 0.617 | 0.655 | 106% | 90% - 110% |
| Nb | 20 | 21 | 107% | 90% - 110% | | | | | | | | | | | | |
| Ni | 32 | 33 | 104% | 90% - 110% | | | | | 9 | 7 | 83% | 90% - 110% | 77.1 | 72.8 | 94% | 90% - 110% |
| P | | | | | | | | | | | | | 892 | 923 | 103% | 90% - 110% |
| Pb | 31 | 31 | 99% | 90% - 110% | | | | | 10 | 10 | 96% | 90% - 110% | | | | |
| Rb | 143 | 132 | 92% | 90% - 110% | | | | | 55 | 57.2 | 104% | 90% - 110% | | | | |
| S | | | | | | | | | | | | | 0.348 | 0.38 | 109% | 90% - 110% |
| Sc | 12 | 12 | 104% | 90% - 110% | | | | | | | | | | | | |
| Sr | 144 | 146 | 101% | 90% - 110% | | | | | 1191 | 1141 | 96% | 90% - 110% | 92.8 | 93.1 | 100% | 90% - 110% |
| Ta | 1.9 | 1.7 | 89% | 90% - 110% | | | | | 0.9 | 1 | 113% | 90% - 110% | | | | |
| Th | 18.4 | 17.6 | 95% | 90% - 110% | | | | | 1.4 | 1.2 | 85% | 90% - 110% | | | | |
| Ti | 0.53 | 0.43 | 81% | 90% - 110% | | | | | 0.172 | 0.152 | 88% | 90% - 110% | | | | |
| U | 5.7 | 4.5 | 79% | 90% - 110% | | | | | 0.8 | 0.7 | 82% | 90% - 110% | | | | |
| V | | | | | | | | | 8 | 8 | 99% | 90% - 110% | | | | |
| W | 5 | 5 | 91% | 90% - 110% | | | | | | | | | | | | |
| Y | 40 | 31 | 78% | 90% - 110% | | | | | | | | | | | | |
| Zn | 130 | 121 | 93% | 90% - 110% | | | | | 93 | 88 | 94% | 90% - 110% | 208 | 206 | 99% | 90% - 110% |

Method Summary

CLIENT NAME: CRUZ COBALT CORP.

AGAT WORK ORDER: 17T282580

PROJECT:

ATTENTION TO: Jason Gigliotti, Jim Nelson

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|----------------|---------------|----------------------|----------------------|
| Solid Analysis | | | |
| Ag | MIN-200-12020 | | ICP-MS |
| Al | MIN-200-12020 | | ICP/OES |
| As | MIN-200-12020 | | ICP-MS |
| Ba | MIN-200-12020 | | ICP-MS |
| Be | MIN-200-12020 | | ICP-MS |
| Bi | MIN-200-12020 | | ICP-MS |
| Ca | MIN-200-12020 | | ICP/OES |
| Cd | MIN-200-12020 | | ICP-MS |
| Ce | MIN-200-12020 | | ICP-MS |
| Co | MIN-200-12020 | | ICP-MS |
| Cr | MIN-200-12020 | | ICP/OES |
| Cs | MIN-200-12020 | | ICP-MS |
| Cu | MIN-200-12020 | | ICP-MS |
| Fe | MIN-200-12020 | | ICP/OES |
| Ga | MIN-200-12020 | | ICP-MS |
| Ge | MIN-200-12020 | | ICP-MS |
| Hf | MIN-200-12020 | | ICP-MS |
| In | MIN-200-12020 | | ICP-MS |
| K | MIN-200-12020 | | ICP/OES |
| La | MIN-200-12020 | | ICP-MS |
| Li | MIN-200-12020 | | ICP-MS |
| Mg | MIN-200-12020 | | ICP/OES |
| Mn | MIN-200-12020 | | ICP/OES |
| Mo | MIN-200-12020 | | ICP-MS |
| Na | MIN-200-12020 | | ICP/OES |
| Nb | MIN-200-12020 | | ICP-MS |
| Ni | MIN-200-12020 | | ICP-MS |
| P | MIN-200-12020 | | ICP/OES |
| Pb | MIN-200-12020 | | ICP-MS |
| Rb | MIN-200-12020 | | ICP-MS |
| Re | MIN-200-12020 | | ICP-MS |
| S | MIN-200-12020 | | ICP/OES |
| Sb | MIN-200-12020 | | ICP-MS |
| Sc | MIN-200-12020 | | ICP-MS |
| Se | MIN-200-12020 | | ICP-MS |
| Sn | MIN-200-12020 | | ICP-MS |
| Sr | MIN-200-12020 | | ICP-MS |
| Ta | MIN-200-12020 | | ICP-MS |
| Te | MIN-200-12020 | | ICP-MS |
| Th | MIN-200-12020 | | ICP-MS |
| Ti | MIN-200-12020 | | ICP/OES |
| Tl | MIN-200-12020 | | ICP-MS |
| U | MIN-200-12020 | | ICP-MS |
| V | MIN-200-12020 | | ICP/OES |
| W | MIN-200-12020 | | ICP-MS |
| Y | MIN-200-12020 | | ICP-MS |
| Zn | MIN-200-12020 | | ICP-MS |
| Zr | MIN-200-12020 | | ICP-MS |

CLIENT NAME: CRUZ COBALT CORP.
P.O BOX 10112 1470-701 W. GEORGIA ST
VANCOUVER, BC V7Y 1C6
604-646-6908

ATTENTION TO: Jason Gigliotti, Jim Nelson

PROJECT:

AGAT WORK ORDER: 17T282581

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Jan 02, 2018

PAGES (INCLUDING COVER): 19

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 17T282581

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | DATE REPORTED: Jan 02, 2018 | | SAMPLE TYPE: Other | | | | | | | | | |
|----------------------------|-----------------------------|------|-----------------------------|-----|--------------------|------|------|------|------|------|------|------|------|------|
| Analyte: | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs | Cu | Fe |
| Unit: | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % |
| RDL: | 0.01 | 0.01 | 0.2 | 1 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.05 | 0.5 | 0.01 | 0.5 | 0.01 |
| D5 (8893776) | 0.54 | 6.79 | 8.8 | 421 | 1.30 | 0.27 | 1.28 | 0.12 | 37.6 | 17.4 | 100 | 1.71 | 180 | 4.24 |
| D6 (8893777) | 0.32 | 6.95 | 4.9 | 554 | 1.43 | 0.15 | 1.41 | 0.07 | 43.3 | 12.1 | 67.7 | 1.65 | 27.3 | 2.30 |
| D7 (8893778) | 0.31 | 7.36 | 3.4 | 565 | 1.33 | 0.11 | 1.41 | 0.09 | 37.4 | 11.5 | 68.3 | 1.87 | 19.1 | 2.36 |
| D8 (8893779) | 0.35 | 7.15 | 4.9 | 531 | 1.38 | 0.15 | 1.57 | 0.11 | 38.2 | 13.7 | 82.3 | 2.04 | 32.4 | 3.08 |
| D9 (8893780) | 0.36 | 6.64 | 3.7 | 479 | 1.31 | 0.12 | 1.44 | 0.07 | 30.4 | 12.7 | 73.4 | 1.80 | 23.3 | 2.83 |
| D10 (8893781) | 0.35 | 7.49 | 4.4 | 548 | 1.24 | 0.12 | 1.62 | 0.10 | 32.8 | 11.5 | 70.6 | 1.64 | 19.6 | 2.87 |
| D11 (8893782) | 0.25 | 7.80 | 2.9 | 542 | 1.39 | 0.13 | 1.49 | 0.10 | 36.1 | 13.9 | 84.5 | 2.25 | 24.1 | 3.62 |
| D12 (8893783) | 0.44 | 7.57 | 3.4 | 517 | 1.42 | 0.12 | 1.39 | 0.09 | 37.0 | 15.6 | 87.6 | 1.97 | 19.6 | 3.30 |
| D13 (8893784) | 0.25 | 7.26 | 1.7 | 593 | 1.35 | 0.10 | 1.35 | 0.05 | 37.7 | 11.6 | 70.0 | 1.91 | 11.6 | 2.31 |
| D14 (8893785) | 0.33 | 8.11 | 2.6 | 602 | 1.32 | 0.10 | 1.46 | 0.07 | 27.7 | 12.3 | 87.6 | 2.05 | 19.0 | 3.18 |
| D15 (8893786) | 0.31 | 8.55 | 4.8 | 539 | 1.38 | 0.14 | 1.38 | 0.12 | 28.3 | 17.2 | 95.6 | 2.47 | 31.3 | 3.77 |
| D16 (8893787) | 0.31 | 8.03 | 6.1 | 493 | 1.33 | 0.15 | 1.25 | 0.13 | 25.2 | 15.5 | 90.4 | 2.41 | 43.6 | 4.42 |
| D17 (8893788) | 0.37 | 6.15 | 3.6 | 515 | 1.00 | 0.12 | 1.53 | 0.09 | 30.8 | 8.65 | 64.6 | 2.28 | 17.6 | 2.25 |
| D18 (8893789) | 0.49 | 7.81 | 5.6 | 391 | 1.18 | 0.16 | 1.23 | 0.13 | 25.7 | 18.2 | 77.7 | 2.23 | 64.7 | 4.47 |
| D19 (8893790) | 0.34 | 6.63 | 7.2 | 544 | 1.09 | 0.14 | 1.39 | 0.13 | 24.1 | 14.7 | 55.7 | 1.79 | 22.4 | 2.61 |
| D20 (8893791) | 0.26 | 7.33 | 5.5 | 477 | 1.25 | 0.14 | 1.39 | 0.06 | 22.5 | 23.9 | 66.5 | 1.66 | 27.9 | 3.01 |
| D21 (8893792) | 0.32 | 7.98 | 3.0 | 515 | 1.34 | 0.16 | 1.52 | 0.11 | 26.3 | 22.7 | 69.0 | 1.78 | 42.0 | 3.33 |
| D22 (8893793) | 0.20 | 7.56 | 6.3 | 478 | 1.41 | 0.18 | 1.44 | 0.10 | 27.5 | 16.5 | 71.1 | 1.84 | 44.2 | 3.22 |
| D23 (8893794) | 0.24 | 6.35 | 6.3 | 424 | 1.01 | 0.19 | 1.28 | 0.12 | 29.7 | 7.62 | 57.5 | 1.79 | 30.5 | 3.43 |
| D24 (8893795) | 0.31 | 7.34 | 3.3 | 512 | 1.44 | 0.11 | 1.45 | 0.08 | 29.8 | 17.1 | 76.6 | 1.99 | 15.6 | 3.06 |
| D25 (8893796) | 0.45 | 7.45 | 3.9 | 569 | 1.52 | 0.14 | 1.40 | 0.06 | 39.7 | 14.3 | 79.7 | 2.59 | 18.9 | 3.02 |
| D26 (8893797) | 0.36 | 8.54 | 8.9 | 521 | 1.75 | 0.24 | 1.42 | 0.07 | 49.0 | 27.8 | 128 | 2.78 | 75.8 | 5.95 |
| D27 (8893798) | 0.62 | 7.63 | 9.6 | 434 | 1.50 | 0.17 | 1.32 | 0.13 | 26.3 | 17.7 | 98.6 | 2.16 | 27.3 | 4.15 |
| D28 (8893799) | 0.41 | 7.63 | 7.4 | 532 | 1.41 | 0.14 | 1.49 | 0.13 | 28.6 | 23.0 | 70.8 | 2.12 | 21.5 | 3.19 |
| E1 (8893800) | 0.22 | 7.04 | 3.0 | 593 | 1.20 | 0.08 | 1.53 | 0.05 | 25.0 | 10.7 | 70.9 | 1.94 | 11.9 | 2.62 |
| E2 (8893801) | 0.26 | 6.68 | 2.2 | 551 | 1.24 | 0.09 | 1.30 | 0.10 | 33.8 | 11.3 | 71.4 | 1.99 | 11.4 | 2.46 |
| E3 (8893802) | 0.24 | 6.64 | 3.9 | 518 | 1.25 | 0.11 | 1.62 | 0.07 | 34.7 | 13.8 | 74.1 | 1.94 | 14.6 | 2.78 |
| E4 (8893803) | 0.24 | 6.47 | 4.6 | 509 | 1.30 | 0.09 | 1.89 | 0.07 | 38.5 | 13.5 | 104 | 1.53 | 11.0 | 2.85 |
| E5 (8893804) | 0.18 | 7.28 | 3.8 | 590 | 1.65 | 0.12 | 1.76 | 0.04 | 53.6 | 18.7 | 81.9 | 2.41 | 22.9 | 3.09 |
| E6 (8893805) | 0.23 | 6.68 | 11.6 | 541 | 1.31 | 0.11 | 1.72 | 0.09 | 31.8 | 17.4 | 81.2 | 2.29 | 17.1 | 2.96 |
| E7 (8893806) | 0.23 | 7.60 | 3.9 | 610 | 1.35 | 0.15 | 1.49 | 0.06 | 31.0 | 16.9 | 92.4 | 2.17 | 24.8 | 2.92 |
| E8 (8893807) | 0.27 | 6.68 | 3.6 | 608 | 1.14 | 0.11 | 1.42 | 0.06 | 29.1 | 12.3 | 67.5 | 2.37 | 7.9 | 2.37 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282581

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 02, 2018

SAMPLE TYPE: Other

| Sample ID (AGAT ID) | Analyte: Unit: RDL: | Ag ppm 0.01 | Al % 0.01 | As ppm 0.2 | Ba ppm 1 | Be ppm 0.05 | Bi ppm 0.01 | Ca % 0.01 | Cd ppm 0.02 | Ce ppm 0.01 | Co ppm 0.05 | Cr ppm 0.5 | Cs ppm 0.01 | Cu ppm 0.5 | Fe % 0.01 |
|---------------------|---------------------------|-------------------|-----------------|------------------|----------------|-------------------|-------------------|-----------------|-------------------|-------------------|-------------------|------------------|-------------------|------------------|-----------------|
| E9 (8893808) | | 0.29 | 6.60 | 1.2 | 494 | 1.32 | 0.10 | 1.42 | 0.06 | 23.8 | 11.3 | 66.3 | 1.77 | 6.5 | 3.04 |
| E10 (8893809) | | 0.56 | 7.05 | 6.1 | 504 | 1.37 | 0.14 | 1.41 | 0.10 | 17.2 | 14.3 | 85.3 | 1.86 | 11.7 | 4.11 |
| E11 (8893810) | | 0.32 | 7.48 | 3.0 | 538 | 1.37 | 0.12 | 1.57 | 0.07 | 36.1 | 15.5 | 104 | 1.48 | 19.9 | 4.51 |
| E12 (8893811) | | 0.25 | 8.41 | 4.2 | 573 | 1.40 | 0.13 | 1.63 | 0.10 | 20.7 | 19.6 | 88.2 | 1.98 | 15.2 | 4.34 |
| E13 (8893812) | | 0.30 | 8.02 | 4.5 | 564 | 1.22 | 0.12 | 1.69 | 0.06 | 27.1 | 18.5 | 89.3 | 1.85 | 14.8 | 4.65 |
| E14 (8893813) | | 0.29 | 8.45 | 4.7 | 580 | 1.36 | 0.15 | 1.65 | 0.10 | 27.7 | 14.9 | 111 | 1.87 | 24.5 | 4.80 |
| E15 (8893814) | | 0.40 | 8.34 | 8.9 | 576 | 1.40 | 0.20 | 1.28 | 0.11 | 27.0 | 19.9 | 94.5 | 2.37 | 57.3 | 5.06 |
| E16 (8893815) | | 0.33 | 7.74 | 3.6 | 559 | 1.32 | 0.10 | 1.61 | 0.07 | 35.2 | 12.4 | 73.6 | 1.67 | 14.5 | 2.83 |
| E17 (8893816) | | 0.44 | 7.09 | 7.6 | 558 | 1.19 | 0.17 | 1.43 | 0.10 | 27.3 | 10.9 | 81.5 | 2.26 | 12.1 | 3.27 |
| E18 (8893817) | | 0.31 | 7.13 | 3.8 | 514 | 1.10 | 0.10 | 1.35 | 0.07 | 25.3 | 9.98 | 72.4 | 1.74 | 10.2 | 2.81 |
| E19 (8893818) | | 0.34 | 8.41 | 2.9 | 596 | 1.32 | 0.11 | 1.61 | 0.08 | 35.8 | 12.6 | 85.3 | 2.41 | 14.7 | 3.55 |
| E20 (8893819) | | 0.33 | 8.08 | 3.0 | 579 | 1.51 | 0.10 | 1.53 | 0.10 | 37.8 | 14.3 | 88.2 | 1.78 | 27.9 | 3.33 |
| E21 (8893820) | | 0.27 | 7.04 | 2.3 | 492 | 1.30 | 0.09 | 1.71 | 0.07 | 25.2 | 13.3 | 88.3 | 1.48 | 8.5 | 3.55 |
| E22 (8893821) | | 0.27 | 7.77 | 6.0 | 514 | 1.22 | 0.13 | 1.58 | 0.09 | 26.1 | 14.9 | 72.3 | 1.90 | 36.4 | 3.43 |
| E23 (8893822) | | 0.19 | 7.30 | 5.1 | 548 | 1.29 | 0.11 | 1.61 | 0.03 | 53.1 | 10.6 | 77.4 | 1.42 | 44.1 | 2.71 |
| E24 (8893823) | | 0.27 | 5.67 | 4.1 | 388 | 0.91 | 0.14 | 1.38 | 0.11 | 18.5 | 8.46 | 98.4 | 1.41 | 16.0 | 2.60 |
| E25 (8893824) | | 0.28 | 5.92 | 8.6 | 478 | 1.01 | 0.14 | 1.36 | 0.06 | 18.4 | 7.27 | 50.4 | 1.46 | 13.9 | 2.04 |
| E26 (8893825) | | 0.21 | 7.21 | 4.2 | 442 | 1.11 | 0.14 | 1.42 | 0.11 | 25.2 | 14.1 | 60.6 | 1.66 | 70.1 | 3.78 |
| E27 (8893826) | | 0.21 | 7.07 | 6.8 | 457 | 1.25 | 0.16 | 1.42 | 0.06 | 22.1 | 14.8 | 63.7 | 1.80 | 56.6 | 3.71 |
| E28 (8893827) | | 0.19 | 5.87 | 3.5 | 486 | 1.17 | 0.10 | 1.34 | 0.04 | 18.9 | 9.52 | 42.7 | 1.24 | 27.7 | 1.88 |
| E29 (8893828) | | 0.27 | 7.28 | 5.4 | 526 | 1.08 | 0.10 | 1.42 | 0.05 | 21.9 | 10.1 | 57.9 | 1.37 | 16.6 | 2.60 |
| E30 (8893829) | | 0.27 | 7.86 | 9.9 | 532 | 1.36 | 0.17 | 1.82 | 0.07 | 47.4 | 15.4 | 73.7 | 1.38 | 94.7 | 3.43 |
| E31 (8893830) | | 0.20 | 7.92 | 7.5 | 451 | 1.32 | 0.18 | 1.53 | 0.06 | 25.7 | 17.9 | 69.1 | 1.57 | 33.3 | 3.39 |
| E32 (8893831) | | 0.28 | 5.90 | 2.1 | 508 | 0.91 | 0.13 | 1.31 | 0.06 | 22.0 | 5.27 | 45.3 | 1.15 | 6.8 | 2.22 |
| E33 (8893832) | | 0.19 | 6.80 | 2.5 | 514 | 1.20 | 0.08 | 1.71 | 0.07 | 16.5 | 9.11 | 57.1 | 1.11 | 4.5 | 2.51 |
| E34 (8893833) | | 0.17 | 7.00 | 1.6 | 546 | 1.46 | 0.07 | 1.65 | 0.07 | 18.8 | 9.34 | 56.0 | 1.19 | 5.4 | 2.13 |
| E35 (8893834) | | 0.20 | 7.09 | 0.8 | 527 | 1.27 | 0.08 | 1.59 | 0.06 | 26.0 | 11.1 | 66.8 | 1.45 | 5.8 | 2.45 |
| E36 (8893835) | | 0.44 | 7.37 | 5.9 | 483 | 1.33 | 0.14 | 1.35 | 0.09 | 25.1 | 16.5 | 75.7 | 2.14 | 17.0 | 3.41 |
| E37 (8893836) | | 0.29 | 6.82 | 4.5 | 498 | 1.21 | 0.11 | 1.48 | 0.06 | 38.3 | 11.8 | 74.7 | 1.76 | 12.2 | 2.96 |
| E38 (8893837) | | 0.20 | 7.12 | 4.4 | 557 | 1.29 | 0.09 | 1.43 | 0.05 | 40.5 | 10.2 | 65.5 | 1.42 | 13.9 | 2.31 |
| E39 (8893838) | | 0.18 | 6.81 | 1.9 | 500 | 1.28 | 0.08 | 1.37 | 0.05 | 22.6 | 10.6 | 58.8 | 1.40 | 6.7 | 2.15 |
| E40 (8893839) | | 0.16 | 8.23 | 1.7 | 690 | 1.39 | 0.07 | 1.80 | 0.03 | 21.3 | 9.63 | 53.1 | 1.20 | 5.9 | 2.25 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282581

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | DATE REPORTED: Jan 02, 2018 | | | | SAMPLE TYPE: Other | | | | | |
|----------------------------|-----------------------------|------|-----|-----|-----------------------------|------|------|------|--------------------|------|------|------|------|------|
| Analyte: | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs | Cu | Fe |
| Unit: | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % |
| RDL: | 0.01 | 0.01 | 0.2 | 1 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.05 | 0.5 | 0.01 | 0.5 | 0.01 |
| E41 (8893840) | 0.24 | 7.81 | 3.6 | 531 | 1.20 | 0.09 | 1.67 | 0.05 | 22.4 | 13.3 | 112 | 1.20 | 6.3 | 3.17 |
| E42 (8893841) | 0.30 | 6.90 | 7.2 | 444 | 1.48 | 0.12 | 1.90 | 0.09 | 25.4 | 19.8 | 135 | 1.87 | 17.4 | 4.32 |
| E43 (8893842) | 0.21 | 7.40 | 3.4 | 515 | 1.34 | 0.10 | 1.56 | 0.10 | 17.0 | 10.7 | 64.7 | 1.43 | 5.3 | 3.29 |
| E44 (8893843) | 0.25 | 6.71 | 4.7 | 477 | 1.13 | 0.12 | 1.30 | 0.11 | 22.3 | 7.86 | 65.8 | 1.81 | 10.2 | 3.43 |
| E45 (8893844) | 0.36 | 6.59 | 4.6 | 484 | 1.50 | 0.12 | 1.37 | 0.10 | 29.1 | 13.4 | 71.6 | 2.21 | 11.2 | 2.93 |
| F1 (8893845) | 0.18 | 6.53 | 3.5 | 497 | 1.42 | 0.07 | 1.25 | 0.07 | 21.7 | 11.0 | 50.4 | 1.47 | 4.9 | 2.05 |
| F2 (8893846) | 0.15 | 6.19 | 2.0 | 520 | 1.37 | 0.07 | 1.34 | 0.06 | 14.4 | 8.44 | 42.7 | 1.28 | 4.2 | 1.85 |
| F3 (8893847) | 0.19 | 6.51 | 2.9 | 446 | 1.40 | 0.08 | 1.46 | 0.06 | 31.7 | 12.1 | 72.1 | 1.40 | 6.8 | 2.82 |

Certified By:

Certificate of Analysis

AGAT WORK ORDER: 17T282581

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

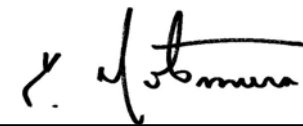
DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 02, 2018

SAMPLE TYPE: Other

| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P |
|---------------|------|-------|-----|-------|------|------|------|------|-----|------|------|-----|------|------|
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 |
| D5 (8893776) | 17.3 | 0.38 | 3.2 | 0.034 | 1.41 | 18.0 | 23.1 | 0.72 | 451 | 0.76 | 1.61 | 6.9 | 61.5 | 751 |
| D6 (8893777) | 19.6 | 0.08 | 3.2 | 0.024 | 1.94 | 17.0 | 15.3 | 0.82 | 322 | 0.35 | 2.06 | 6.7 | 36.6 | 284 |
| D7 (8893778) | 18.7 | 0.34 | 3.1 | 0.026 | 2.08 | 14.5 | 19.5 | 0.77 | 335 | 0.44 | 2.00 | 6.7 | 35.8 | 343 |
| D8 (8893779) | 19.0 | 0.33 | 3.6 | 0.026 | 1.79 | 17.8 | 20.2 | 0.78 | 418 | 0.56 | 1.96 | 6.9 | 38.5 | 525 |
| D9 (8893780) | 16.8 | 0.48 | 3.1 | 0.026 | 1.66 | 13.6 | 18.7 | 0.72 | 378 | 0.56 | 1.80 | 6.4 | 35.5 | 496 |
| D10 (8893781) | 16.7 | 0.76 | 3.3 | 0.026 | 1.90 | 14.3 | 18.5 | 0.78 | 405 | 0.50 | 2.12 | 6.4 | 34.2 | 397 |
| D11 (8893782) | 19.8 | 0.81 | 3.7 | 0.030 | 1.81 | 16.5 | 28.5 | 0.84 | 407 | 0.75 | 1.91 | 7.0 | 42.4 | 639 |
| D12 (8893783) | 18.6 | 0.77 | 3.0 | 0.029 | 1.76 | 17.0 | 24.9 | 0.86 | 373 | 0.71 | 1.81 | 6.9 | 46.2 | 686 |
| D13 (8893784) | 19.3 | 0.57 | 3.0 | 0.023 | 2.11 | 14.9 | 18.9 | 0.80 | 304 | 0.36 | 2.02 | 6.8 | 35.6 | 207 |
| D14 (8893785) | 17.4 | 0.72 | 2.7 | 0.022 | 2.07 | 13.9 | 23.7 | 0.93 | 376 | 0.40 | 1.97 | 6.2 | 44.3 | 577 |
| D15 (8893786) | 21.3 | 0.45 | 2.8 | 0.031 | 1.94 | 13.9 | 29.8 | 1.03 | 416 | 0.71 | 1.84 | 6.9 | 51.1 | 1000 |
| D16 (8893787) | 20.0 | 0.74 | 2.3 | 0.028 | 1.71 | 12.3 | 32.7 | 0.82 | 403 | 0.71 | 1.57 | 6.3 | 45.4 | 1050 |
| D17 (8893788) | 18.3 | 0.22 | 3.3 | 0.021 | 1.95 | 14.7 | 19.2 | 0.73 | 362 | 0.47 | 1.82 | 6.2 | 23.5 | 230 |
| D18 (8893789) | 19.4 | 0.56 | 2.7 | 0.033 | 1.42 | 12.3 | 78.1 | 1.13 | 316 | 1.04 | 1.38 | 5.5 | 50.5 | 882 |
| D19 (8893790) | 19.1 | 0.29 | 3.8 | 0.024 | 1.84 | 11.4 | 23.2 | 0.64 | 323 | 0.63 | 1.87 | 6.8 | 33.6 | 269 |
| D20 (8893791) | 17.7 | 0.55 | 2.5 | 0.026 | 1.57 | 10.6 | 25.7 | 0.76 | 326 | 0.54 | 1.91 | 5.5 | 42.9 | 274 |
| D21 (8893792) | 18.6 | <0.05 | 3.0 | 0.029 | 1.70 | 11.5 | 26.8 | 0.79 | 345 | 0.61 | 2.04 | 5.7 | 41.6 | 347 |
| D22 (8893793) | 18.9 | <0.05 | 2.9 | 0.025 | 1.58 | 11.7 | 21.8 | 0.77 | 360 | 0.57 | 2.06 | 4.9 | 35.3 | 317 |
| D23 (8893794) | 20.0 | 0.24 | 3.2 | 0.028 | 1.40 | 14.0 | 18.4 | 0.55 | 298 | 0.91 | 1.61 | 6.0 | 18.4 | 989 |
| D24 (8893795) | 18.3 | 0.08 | 3.1 | 0.025 | 1.76 | 13.6 | 22.2 | 0.76 | 358 | 0.52 | 1.95 | 6.0 | 41.9 | 465 |
| D25 (8893796) | 21.7 | <0.05 | 3.0 | 0.025 | 1.87 | 19.2 | 28.0 | 0.83 | 386 | 0.51 | 1.83 | 7.5 | 46.3 | 505 |
| D26 (8893797) | 20.3 | 1.31 | 3.3 | 0.035 | 1.79 | 20.4 | 36.8 | 1.18 | 622 | 1.28 | 1.62 | 8.6 | 68.1 | 1440 |
| D27 (8893798) | 17.9 | 0.64 | 2.5 | 0.033 | 1.51 | 12.1 | 28.8 | 0.81 | 488 | 0.82 | 1.64 | 5.7 | 45.6 | 1170 |
| D28 (8893799) | 19.8 | 0.44 | 2.6 | 0.028 | 1.77 | 12.0 | 26.9 | 0.76 | 355 | 0.79 | 1.95 | 6.6 | 46.9 | 619 |
| E1 (8893800) | 18.6 | 0.37 | 2.4 | 0.020 | 2.19 | 12.3 | 21.3 | 1.01 | 407 | 0.31 | 2.17 | 5.9 | 33.4 | 221 |
| E2 (8893801) | 19.9 | 0.33 | 2.4 | 0.023 | 2.04 | 15.3 | 19.7 | 0.93 | 333 | 0.31 | 2.00 | 6.0 | 33.7 | 195 |
| E3 (8893802) | 19.4 | 0.38 | 2.2 | 0.024 | 1.87 | 16.6 | 25.1 | 1.12 | 521 | 0.38 | 2.08 | 6.6 | 35.3 | 305 |
| E4 (8893803) | 19.0 | 0.27 | 2.6 | 0.023 | 1.79 | 18.5 | 19.0 | 1.10 | 555 | 0.46 | 2.24 | 6.2 | 36.2 | 467 |
| E5 (8893804) | 22.6 | <0.05 | 2.6 | 0.027 | 2.15 | 23.0 | 24.1 | 1.28 | 588 | 0.41 | 2.21 | 7.0 | 41.8 | 523 |
| E6 (8893805) | 21.0 | <0.05 | 2.7 | 0.025 | 1.97 | 14.0 | 28.1 | 1.13 | 475 | 0.44 | 2.10 | 6.9 | 38.8 | 212 |
| E7 (8893806) | 19.4 | 0.40 | 2.4 | 0.023 | 2.20 | 14.1 | 23.5 | 1.22 | 459 | 0.29 | 2.11 | 7.0 | 50.5 | 275 |
| E8 (8893807) | 20.7 | <0.05 | 2.9 | 0.023 | 2.25 | 14.3 | 21.5 | 0.94 | 359 | 0.33 | 1.94 | 7.1 | 33.2 | 189 |

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 17T282581

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 02, 2018

SAMPLE TYPE: Other

| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P |
|---------------|------|-------|-----|-------|------|------|------|------|-----|------|------|------|------|------|
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 |
| E9 (8893808) | 22.0 | <0.05 | 2.6 | 0.025 | 1.69 | 11.5 | 19.8 | 0.69 | 312 | 0.60 | 1.96 | 6.0 | 27.6 | 257 |
| E10 (8893809) | 20.6 | 0.58 | 1.9 | 0.028 | 1.59 | 8.0 | 30.4 | 0.82 | 356 | 0.75 | 1.91 | 5.7 | 39.0 | 532 |
| E11 (8893810) | 16.4 | 0.62 | 3.8 | 0.023 | 1.72 | 14.8 | 23.2 | 0.91 | 574 | 0.39 | 1.91 | 6.1 | 42.4 | 572 |
| E12 (8893811) | 18.1 | 0.43 | 2.4 | 0.024 | 2.11 | 9.6 | 32.5 | 1.20 | 505 | 0.39 | 2.01 | 5.2 | 50.2 | 773 |
| E13 (8893812) | 18.6 | 0.50 | 2.3 | 0.028 | 2.02 | 13.3 | 32.0 | 1.10 | 536 | 0.44 | 1.99 | 5.5 | 51.0 | 726 |
| E14 (8893813) | 17.3 | 0.63 | 2.2 | 0.028 | 1.95 | 12.3 | 36.7 | 1.17 | 621 | 0.37 | 2.04 | 5.1 | 55.9 | 2570 |
| E15 (8893814) | 17.7 | 0.48 | 2.2 | 0.030 | 1.93 | 11.9 | 37.8 | 1.14 | 541 | 0.66 | 1.48 | 6.8 | 59.4 | 3140 |
| E16 (8893815) | 17.5 | 0.20 | 3.4 | 0.021 | 1.97 | 15.9 | 19.6 | 0.86 | 404 | 0.42 | 2.13 | 6.1 | 36.4 | 590 |
| E17 (8893816) | 19.4 | <0.05 | 3.2 | 0.028 | 1.90 | 14.1 | 26.8 | 0.72 | 560 | 0.50 | 1.82 | 7.1 | 33.5 | 797 |
| E18 (8893817) | 15.8 | 0.14 | 3.0 | 0.020 | 1.77 | 12.4 | 24.8 | 0.77 | 353 | 0.42 | 1.73 | 5.8 | 39.2 | 600 |
| E19 (8893818) | 16.9 | 0.17 | 3.3 | 0.031 | 2.13 | 16.5 | 25.6 | 0.98 | 453 | 0.53 | 2.11 | 10.5 | 42.6 | 910 |
| E20 (8893819) | 17.4 | 0.27 | 2.9 | 0.025 | 1.96 | 15.4 | 20.7 | 0.97 | 415 | 0.39 | 2.05 | 6.1 | 44.4 | 730 |
| E21 (8893820) | 18.6 | <0.05 | 3.9 | 0.023 | 1.60 | 11.4 | 17.1 | 0.82 | 543 | 0.43 | 2.04 | 6.6 | 34.0 | 622 |
| E22 (8893821) | 17.8 | <0.05 | 2.7 | 0.024 | 1.92 | 11.2 | 28.2 | 0.98 | 417 | 0.45 | 2.00 | 5.4 | 39.3 | 684 |
| E23 (8893822) | 16.6 | <0.05 | 2.7 | 0.022 | 2.03 | 14.2 | 22.5 | 0.92 | 433 | 0.32 | 2.21 | 5.4 | 38.6 | 207 |
| E24 (8893823) | 17.7 | <0.05 | 2.1 | 0.024 | 1.30 | 8.7 | 17.7 | 0.75 | 495 | 0.44 | 1.70 | 5.2 | 31.0 | 1010 |
| E25 (8893824) | 19.5 | <0.05 | 2.6 | 0.022 | 1.67 | 9.0 | 12.3 | 0.59 | 283 | 0.53 | 2.05 | 5.4 | 21.0 | 177 |
| E26 (8893825) | 17.8 | <0.05 | 2.8 | 0.031 | 1.58 | 11.7 | 26.9 | 0.79 | 359 | 0.58 | 1.80 | 5.2 | 32.2 | 448 |
| E27 (8893826) | 19.8 | <0.05 | 2.6 | 0.029 | 1.55 | 10.9 | 32.3 | 0.70 | 315 | 0.80 | 1.95 | 5.3 | 36.4 | 280 |
| E28 (8893827) | 18.2 | <0.05 | 2.2 | 0.017 | 1.58 | 8.0 | 16.1 | 0.54 | 252 | 0.43 | 2.16 | 3.9 | 24.7 | 176 |
| E29 (8893828) | 18.5 | <0.05 | 2.6 | 0.022 | 1.73 | 11.0 | 19.3 | 0.58 | 289 | 0.52 | 2.14 | 4.9 | 26.5 | 269 |
| E30 (8893829) | 16.6 | <0.05 | 2.7 | 0.023 | 1.80 | 14.4 | 25.0 | 0.90 | 463 | 0.45 | 2.54 | 4.0 | 41.1 | 397 |
| E31 (8893830) | 18.1 | <0.05 | 2.6 | 0.030 | 1.56 | 11.4 | 22.8 | 0.86 | 396 | 0.60 | 2.09 | 4.8 | 35.1 | 362 |
| E32 (8893831) | 19.7 | <0.05 | 3.7 | 0.019 | 1.59 | 10.7 | 11.1 | 0.45 | 294 | 0.55 | 1.95 | 7.2 | 14.5 | 216 |
| E33 (8893832) | 17.0 | <0.05 | 1.7 | 0.018 | 1.72 | 6.9 | 14.3 | 0.67 | 461 | 0.29 | 2.49 | 3.4 | 22.3 | 605 |
| E34 (8893833) | 17.5 | <0.05 | 1.4 | 0.018 | 1.80 | 8.6 | 12.5 | 0.71 | 346 | 0.28 | 2.59 | 4.7 | 25.3 | 386 |
| E35 (8893834) | 18.4 | <0.05 | 2.6 | 0.020 | 1.76 | 11.0 | 15.0 | 0.75 | 370 | 0.33 | 2.31 | 4.6 | 28.7 | 414 |
| E36 (8893835) | 18.8 | <0.05 | 2.5 | 0.028 | 1.68 | 11.1 | 25.5 | 0.81 | 400 | 0.63 | 1.76 | 5.8 | 45.8 | 764 |
| E37 (8893836) | 17.5 | <0.05 | 3.1 | 0.021 | 1.72 | 17.6 | 17.4 | 0.71 | 372 | 0.45 | 1.98 | 5.5 | 34.0 | 348 |
| E38 (8893837) | 16.7 | <0.05 | 2.8 | 0.020 | 2.06 | 12.0 | 14.6 | 0.78 | 321 | 0.24 | 2.32 | 4.6 | 29.4 | 265 |
| E39 (8893838) | 16.9 | <0.05 | 2.4 | 0.018 | 1.67 | 9.6 | 15.4 | 0.64 | 296 | 0.40 | 2.05 | 4.3 | 33.1 | 332 |
| E40 (8893839) | 17.7 | <0.05 | 2.4 | 0.017 | 2.21 | 7.7 | 13.8 | 0.78 | 335 | 0.26 | 2.99 | 3.9 | 25.5 | 177 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282581

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
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 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 02, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|-------|-----|-------|------|-----------------------------|------|------|-----|------|--------------------|-----|------|------|--|
| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P | |
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm | |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 | |
| E41 (8893840) | 15.3 | 0.32 | 2.7 | 0.021 | 1.76 | 10.7 | 19.0 | 0.74 | 401 | 0.66 | 2.35 | 4.7 | 46.9 | 459 | |
| E42 (8893841) | 17.4 | 0.13 | 2.4 | 0.033 | 1.34 | 12.7 | 30.2 | 1.66 | 550 | 0.68 | 1.77 | 5.2 | 49.0 | 747 | |
| E43 (8893842) | 18.5 | <0.05 | 1.9 | 0.021 | 1.73 | 8.2 | 17.8 | 0.66 | 405 | 0.43 | 2.28 | 4.4 | 24.0 | 1410 | |
| E44 (8893843) | 18.5 | 0.05 | 2.4 | 0.025 | 1.57 | 10.7 | 21.8 | 0.56 | 342 | 0.67 | 1.73 | 5.1 | 20.9 | 1120 | |
| E45 (8893844) | 21.1 | <0.05 | 3.3 | 0.029 | 1.61 | 13.8 | 20.2 | 0.68 | 370 | 0.70 | 1.84 | 6.8 | 36.3 | 843 | |
| F1 (8893845) | 17.9 | <0.05 | 2.1 | 0.024 | 1.61 | 9.6 | 16.2 | 0.58 | 247 | 0.32 | 1.98 | 4.1 | 26.3 | 246 | |
| F2 (8893846) | 18.3 | <0.05 | 1.5 | 0.016 | 1.68 | 6.1 | 11.2 | 0.51 | 241 | 0.26 | 2.21 | 3.5 | 20.3 | 274 | |
| F3 (8893847) | 18.5 | <0.05 | 2.5 | 0.021 | 1.49 | 15.1 | 17.1 | 0.67 | 358 | 0.30 | 2.06 | 4.8 | 27.2 | 512 | |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282581

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 02, 2018

SAMPLE TYPE: Other

| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl |
|---------------|------|------|--------|------|------|------|-----|-----|-----|------|------|-----|------|------|
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm |
| RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | 0.01 |
| D5 (8893776) | 14.2 | 53.0 | <0.002 | 0.06 | 0.25 | 11.0 | 1.7 | 1.6 | 261 | 0.50 | 0.24 | 6.3 | 0.40 | 0.21 |
| D6 (8893777) | 12.8 | 72.0 | <0.002 | 0.03 | 0.12 | 11.2 | 1.0 | 1.1 | 310 | 0.51 | 0.08 | 5.4 | 0.29 | 0.31 |
| D7 (8893778) | 12.3 | 71.2 | <0.002 | 0.03 | 0.13 | 10.7 | 1.2 | 1.0 | 306 | 0.52 | 0.05 | 4.1 | 0.32 | 0.31 |
| D8 (8893779) | 13.8 | 65.4 | <0.002 | 0.04 | 0.15 | 11.1 | 1.2 | 1.1 | 301 | 0.54 | 0.09 | 5.4 | 0.39 | 0.26 |
| D9 (8893780) | 12.5 | 60.3 | <0.002 | 0.03 | 0.13 | 10.6 | 1.1 | 1.5 | 279 | 0.48 | 0.05 | 4.2 | 0.35 | 0.24 |
| D10 (8893781) | 11.8 | 59.0 | <0.002 | 0.04 | 0.17 | 10.3 | 0.9 | 1.0 | 320 | 0.50 | 0.04 | 4.4 | 0.37 | 0.25 |
| D11 (8893782) | 14.0 | 66.1 | <0.002 | 0.07 | 0.14 | 11.6 | 1.1 | 1.2 | 303 | 0.53 | 0.06 | 5.5 | 0.39 | 0.27 |
| D12 (8893783) | 14.7 | 62.2 | <0.002 | 0.05 | 0.13 | 11.4 | 1.3 | 1.1 | 280 | 0.50 | 0.03 | 4.7 | 0.34 | 0.27 |
| D13 (8893784) | 12.3 | 77.3 | <0.002 | 0.03 | 0.12 | 11.1 | 0.8 | 1.2 | 296 | 0.50 | 0.04 | 3.9 | 0.32 | 0.31 |
| D14 (8893785) | 12.1 | 69.7 | <0.002 | 0.04 | 0.14 | 10.7 | 1.0 | 1.0 | 297 | 0.45 | 0.04 | 3.6 | 0.35 | 0.28 |
| D15 (8893786) | 14.1 | 70.6 | <0.002 | 0.06 | 0.21 | 12.1 | 1.2 | 1.2 | 283 | 0.53 | 0.06 | 3.9 | 0.35 | 0.29 |
| D16 (8893787) | 30.3 | 66.3 | <0.002 | 0.07 | 0.21 | 11.2 | 1.6 | 1.2 | 245 | 0.47 | 0.07 | 3.7 | 0.36 | 0.28 |
| D17 (8893788) | 10.7 | 77.1 | <0.002 | 0.03 | 0.17 | 11.3 | 1.2 | 1.2 | 279 | 0.47 | 0.05 | 5.2 | 0.39 | 0.28 |
| D18 (8893789) | 11.0 | 53.1 | <0.002 | 0.05 | 0.15 | 13.8 | 1.0 | 1.1 | 218 | 0.41 | 0.04 | 4.1 | 0.32 | 0.21 |
| D19 (8893790) | 15.6 | 68.5 | <0.002 | 0.03 | 0.33 | 10.2 | 1.1 | 1.2 | 291 | 0.62 | 0.08 | 4.3 | 0.36 | 0.28 |
| D20 (8893791) | 12.4 | 58.9 | <0.002 | 0.04 | 0.21 | 10.6 | 1.2 | 1.2 | 285 | 0.51 | 0.05 | 3.9 | 0.30 | 0.23 |
| D21 (8893792) | 14.6 | 60.6 | <0.002 | 0.06 | 0.16 | 13.1 | 1.1 | 1.0 | 307 | 0.52 | 0.04 | 4.2 | 0.34 | 0.25 |
| D22 (8893793) | 13.9 | 58.9 | <0.002 | 0.07 | 0.17 | 11.8 | 0.8 | 1.0 | 297 | 0.46 | 0.02 | 5.0 | 0.31 | 0.24 |
| D23 (8893794) | 15.1 | 49.0 | <0.002 | 0.05 | 0.25 | 11.6 | 1.4 | 1.4 | 243 | 0.48 | 0.05 | 4.9 | 0.35 | 0.21 |
| D24 (8893795) | 13.9 | 61.8 | <0.002 | 0.04 | 0.14 | 10.7 | 1.2 | 1.1 | 307 | 0.49 | 0.04 | 4.1 | 0.32 | 0.25 |
| D25 (8893796) | 15.9 | 76.5 | <0.002 | 0.03 | 0.18 | 11.3 | 1.0 | 1.4 | 279 | 0.63 | 0.06 | 7.4 | 0.37 | 0.30 |
| D26 (8893797) | 19.2 | 66.9 | <0.002 | 0.05 | 0.32 | 14.5 | 1.3 | 1.4 | 257 | 0.65 | 0.12 | 9.0 | 0.64 | 0.26 |
| D27 (8893798) | 17.0 | 57.4 | <0.002 | 0.06 | 0.24 | 11.0 | 1.2 | 1.3 | 263 | 0.45 | 0.04 | 4.2 | 0.36 | 0.22 |
| D28 (8893799) | 16.0 | 62.8 | <0.002 | 0.04 | 0.27 | 10.4 | 1.3 | 1.9 | 305 | 0.49 | 0.05 | 3.4 | 0.35 | 0.25 |
| E1 (8893800) | 10.9 | 81.0 | <0.002 | 0.03 | 0.10 | 10.4 | 1.0 | 1.0 | 329 | 0.44 | 0.04 | 3.5 | 0.34 | 0.30 |
| E2 (8893801) | 12.1 | 81.2 | <0.002 | 0.03 | 0.11 | 10.7 | 0.6 | 1.1 | 285 | 0.47 | 0.02 | 9.2 | 0.31 | 0.30 |
| E3 (8893802) | 11.3 | 70.9 | <0.002 | 0.03 | 0.12 | 12.8 | 0.7 | 1.0 | 320 | 0.51 | 0.02 | 4.6 | 0.40 | 0.28 |
| E4 (8893803) | 15.3 | 70.1 | <0.002 | 0.04 | 0.19 | 13.4 | 1.1 | 1.2 | 350 | 0.47 | 0.06 | 5.3 | 0.42 | 0.26 |
| E5 (8893804) | 13.6 | 87.7 | <0.002 | 0.03 | 0.17 | 14.7 | 0.9 | 1.2 | 320 | 0.54 | 0.04 | 7.6 | 0.36 | 0.37 |
| E6 (8893805) | 13.6 | 81.3 | <0.002 | 0.03 | 0.19 | 12.9 | 0.7 | 1.1 | 304 | 0.51 | 0.02 | 3.7 | 0.41 | 0.32 |
| E7 (8893806) | 12.3 | 80.5 | <0.002 | 0.03 | 0.12 | 12.4 | 0.9 | 1.1 | 286 | 0.53 | 0.11 | 4.5 | 0.33 | 0.33 |
| E8 (8893807) | 12.7 | 92.9 | <0.002 | 0.03 | 0.14 | 11.1 | 0.7 | 1.1 | 281 | 0.55 | 0.03 | 3.8 | 0.35 | 0.38 |

Certified By:

Certificate of Analysis

AGAT WORK ORDER: 17T282581

PROJECT:

 5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
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<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

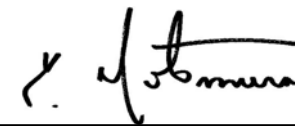
DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 02, 2018

SAMPLE TYPE: Other

| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl |
|---------------|------|------|--------|------|------|------|-----|-----|-----|------|------|-----|------|------|
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm |
| RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | 0.01 |
| E9 (8893808) | 11.7 | 67.4 | <0.002 | 0.04 | 0.11 | 10.8 | 0.9 | 1.1 | 296 | 0.47 | 0.04 | 3.6 | 0.33 | 0.28 |
| E10 (8893809) | 10.5 | 65.1 | <0.002 | 0.05 | 0.17 | 10.7 | 1.2 | 1.0 | 292 | 0.42 | 0.05 | 2.7 | 0.38 | 0.24 |
| E11 (8893810) | 10.1 | 56.0 | <0.002 | 0.04 | 0.23 | 11.3 | 1.1 | 1.0 | 302 | 0.59 | 0.09 | 8.0 | 0.43 | 0.25 |
| E12 (8893811) | 10.6 | 67.9 | <0.002 | 0.05 | 0.25 | 11.9 | 1.1 | 1.0 | 313 | 0.46 | 0.07 | 3.1 | 0.40 | 0.25 |
| E13 (8893812) | 9.8 | 62.6 | <0.002 | 0.04 | 0.21 | 11.3 | 1.1 | 1.0 | 314 | 0.46 | 0.07 | 5.4 | 0.49 | 0.23 |
| E14 (8893813) | 10.2 | 61.5 | <0.002 | 0.05 | 0.26 | 10.5 | 1.0 | 0.9 | 336 | 0.42 | 0.07 | 4.7 | 0.38 | 0.24 |
| E15 (8893814) | 11.5 | 55.2 | <0.002 | 0.07 | 0.22 | 11.1 | 1.5 | 0.9 | 242 | 0.48 | 0.11 | 4.0 | 0.44 | 0.22 |
| E16 (8893815) | 10.9 | 63.4 | <0.002 | 0.04 | 0.12 | 10.4 | 1.1 | 0.9 | 323 | 0.49 | 0.04 | 5.2 | 0.36 | 0.26 |
| E17 (8893816) | 11.9 | 68.8 | <0.002 | 0.04 | 0.24 | 10.1 | 1.3 | 1.5 | 277 | 0.54 | 0.04 | 4.3 | 0.42 | 0.29 |
| E18 (8893817) | 9.2 | 56.2 | <0.002 | 0.04 | 0.12 | 8.6 | 0.9 | 1.0 | 263 | 0.46 | 0.03 | 3.6 | 0.34 | 0.25 |
| E19 (8893818) | 12.0 | 77.0 | <0.002 | 0.05 | 0.19 | 9.4 | 0.7 | 1.9 | 372 | 0.71 | 0.03 | 6.8 | 0.39 | 0.26 |
| E20 (8893819) | 12.4 | 63.1 | <0.002 | 0.04 | 0.10 | 11.4 | 1.3 | 1.0 | 303 | 0.44 | 0.04 | 6.2 | 0.36 | 0.26 |
| E21 (8893820) | 10.5 | 58.1 | <0.002 | 0.04 | 0.11 | 11.2 | 1.3 | 1.0 | 331 | 0.63 | 0.05 | 4.2 | 0.43 | 0.25 |
| E22 (8893821) | 10.2 | 61.1 | <0.002 | 0.04 | 0.13 | 11.4 | 1.5 | 0.9 | 299 | 0.49 | 0.03 | 3.6 | 0.36 | 0.25 |
| E23 (8893822) | 10.6 | 57.2 | <0.002 | 0.03 | 0.10 | 10.8 | 0.6 | 0.9 | 335 | 0.46 | 0.02 | 3.9 | 0.34 | 0.25 |
| E24 (8893823) | 13.4 | 42.8 | <0.002 | 0.04 | 0.13 | 9.4 | 0.8 | 0.9 | 227 | 0.42 | 0.03 | 2.5 | 0.34 | 0.19 |
| E25 (8893824) | 13.6 | 62.9 | <0.002 | 0.03 | 0.26 | 9.1 | 0.8 | 0.8 | 311 | 0.47 | 0.07 | 2.5 | 0.28 | 0.27 |
| E26 (8893825) | 9.8 | 47.5 | <0.002 | 0.04 | 0.20 | 10.0 | 1.3 | 1.7 | 261 | 0.44 | 0.06 | 4.0 | 0.36 | 0.21 |
| E27 (8893826) | 11.3 | 52.4 | <0.002 | 0.04 | 0.16 | 9.8 | 0.9 | 0.9 | 285 | 0.48 | 0.06 | 3.3 | 0.35 | 0.23 |
| E28 (8893827) | 10.4 | 58.8 | <0.002 | 0.02 | 0.09 | 7.4 | 0.6 | 0.7 | 320 | 0.32 | 0.04 | 2.2 | 0.21 | 0.25 |
| E29 (8893828) | 11.0 | 54.0 | <0.002 | 0.04 | 0.37 | 7.9 | 1.0 | 0.8 | 334 | 0.42 | 0.04 | 3.8 | 0.31 | 0.24 |
| E30 (8893829) | 12.7 | 54.4 | <0.002 | 0.04 | 0.15 | 11.6 | 1.0 | 0.8 | 355 | 0.35 | 0.02 | 4.2 | 0.34 | 0.23 |
| E31 (8893830) | 12.9 | 51.1 | <0.002 | 0.05 | 0.14 | 11.3 | 1.3 | 0.8 | 298 | 0.44 | 0.01 | 8.5 | 0.33 | 0.24 |
| E32 (8893831) | 10.8 | 51.7 | <0.002 | 0.03 | 0.32 | 8.2 | 1.0 | 1.1 | 286 | 0.67 | 0.09 | 4.3 | 0.38 | 0.26 |
| E33 (8893832) | 9.2 | 57.1 | <0.002 | 0.03 | 0.19 | 8.3 | 0.9 | 0.8 | 379 | 0.38 | 0.03 | 2.4 | 0.26 | 0.24 |
| E34 (8893833) | 9.5 | 61.0 | <0.002 | 0.03 | 0.23 | 8.2 | 0.8 | 0.8 | 383 | 0.48 | 0.04 | 2.4 | 0.23 | 0.24 |
| E35 (8893834) | 10.1 | 62.8 | <0.002 | 0.03 | 0.11 | 9.7 | 0.9 | 1.1 | 340 | 0.43 | 0.03 | 4.3 | 0.28 | 0.25 |
| E36 (8893835) | 10.5 | 59.2 | <0.002 | 0.06 | 0.16 | 10.1 | 1.3 | 0.9 | 269 | 0.50 | 0.05 | 3.9 | 0.33 | 0.24 |
| E37 (8893836) | 11.6 | 56.2 | <0.002 | 0.04 | 0.11 | 9.3 | 0.8 | 1.0 | 300 | 0.50 | 0.05 | 6.6 | 0.33 | 0.26 |
| E38 (8893837) | 10.5 | 65.2 | <0.002 | 0.03 | 0.10 | 8.5 | 0.8 | 0.8 | 321 | 0.41 | 0.03 | 4.3 | 0.27 | 0.28 |
| E39 (8893838) | 9.5 | 56.8 | <0.002 | 0.03 | 0.15 | 8.2 | 0.7 | 0.7 | 301 | 0.38 | 0.03 | 2.8 | 0.25 | 0.25 |
| E40 (8893839) | 10.2 | 64.7 | <0.002 | 0.04 | 0.06 | 8.8 | 0.8 | 0.7 | 446 | 0.38 | 0.03 | 2.7 | 0.27 | 0.26 |

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 17T282581

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 02, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|------|------|--------|------|-----------------------------|------|-----|-----|-----|--------------------|-------|-----|------|------|
| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl | |
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | |
| Sample ID (AGAT ID) | RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | |
| E41 (8893840) | | 10.2 | 47.3 | <0.002 | 0.04 | 0.11 | 9.2 | 1.1 | 0.8 | 355 | 0.47 | <0.01 | 3.7 | 0.34 | 0.21 |
| E42 (8893841) | | 10.2 | 45.3 | <0.002 | 0.05 | 0.25 | 13.3 | 1.4 | 0.9 | 282 | 0.41 | 0.05 | 4.4 | 0.39 | 0.19 |
| E43 (8893842) | | 10.0 | 53.7 | <0.002 | 0.04 | 0.17 | 8.5 | 1.2 | 0.9 | 354 | 0.35 | 0.04 | 2.1 | 0.31 | 0.23 |
| E44 (8893843) | | 11.3 | 51.3 | <0.002 | 0.06 | 0.19 | 9.1 | 1.0 | 0.9 | 267 | 0.42 | 0.04 | 3.6 | 0.34 | 0.24 |
| E45 (8893844) | | 13.5 | 67.8 | <0.002 | 0.04 | 0.15 | 10.9 | 1.5 | 1.0 | 281 | 0.51 | 0.04 | 4.8 | 0.32 | 0.27 |
| F1 (8893845) | | 11.0 | 64.0 | <0.002 | 0.03 | 0.09 | 8.3 | 1.0 | 0.8 | 289 | 0.35 | 0.03 | 3.7 | 0.21 | 0.25 |
| F2 (8893846) | | 10.3 | 66.6 | <0.002 | 0.02 | 0.06 | 7.7 | 0.5 | 0.9 | 333 | 0.31 | <0.01 | 2.0 | 0.20 | 0.26 |
| F3 (8893847) | | 11.1 | 61.8 | <0.002 | 0.03 | 0.10 | 10.6 | 0.8 | 0.7 | 321 | 0.43 | 0.01 | 5.1 | 0.28 | 0.25 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282581

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
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<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | DATE REPORTED: Jan 02, 2018 | | | SAMPLE TYPE: Other |
|----------------------------|-----------------------------|-------|------|-----------------------------|------|------|--------------------|
| Analyte: | U | V | W | Y | Zn | Zr | |
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm | |
| Sample ID (AGAT ID) | RDL: | 0.005 | 0.5 | 0.1 | 0.1 | 0.5 | 0.5 |
| D5 (8893776) | | 1.07 | 116 | 0.5 | 10.0 | 55.4 | 133 |
| D6 (8893777) | | 0.851 | 73.8 | 0.4 | 9.2 | 29.5 | 130 |
| D7 (8893778) | | 0.864 | 70.4 | 0.4 | 8.6 | 47.4 | 125 |
| D8 (8893779) | | 0.993 | 94.8 | 0.5 | 10.4 | 59.9 | 150 |
| D9 (8893780) | | 0.870 | 77.9 | 0.4 | 9.3 | 54.2 | 132 |
| D10 (8893781) | | 0.871 | 72.2 | 0.4 | 8.2 | 67.8 | 140 |
| D11 (8893782) | | 1.13 | 90.6 | 0.6 | 10.0 | 89.5 | 147 |
| D12 (8893783) | | 0.942 | 83.0 | 0.5 | 8.8 | 56.3 | 123 |
| D13 (8893784) | | 0.796 | 67.6 | 0.4 | 9.1 | 35.7 | 125 |
| D14 (8893785) | | 0.820 | 73.2 | 0.4 | 8.1 | 62.9 | 110 |
| D15 (8893786) | | 0.990 | 100 | 0.7 | 9.1 | 66.3 | 114 |
| D16 (8893787) | | 0.911 | 93.7 | 0.5 | 8.8 | 112 | 91.6 |
| D17 (8893788) | | 0.910 | 81.0 | 0.6 | 9.2 | 46.1 | 139 |
| D18 (8893789) | | 0.799 | 131 | 0.5 | 7.1 | 100 | 109 |
| D19 (8893790) | | 0.818 | 82.0 | 0.6 | 7.6 | 67.3 | 146 |
| D20 (8893791) | | 0.796 | 84.1 | 0.5 | 7.5 | 45.7 | 98.5 |
| D21 (8893792) | | 0.915 | 90.7 | 0.5 | 8.8 | 60.4 | 116 |
| D22 (8893793) | | 0.951 | 94.4 | 0.5 | 8.3 | 44.6 | 116 |
| D23 (8893794) | | 1.12 | 99.8 | 0.5 | 9.3 | 46.1 | 127 |
| D24 (8893795) | | 0.853 | 81.6 | 0.4 | 8.3 | 63.0 | 127 |
| D25 (8893796) | | 0.948 | 84.6 | 0.5 | 9.1 | 94.9 | 123 |
| D26 (8893797) | | 1.42 | 150 | 0.7 | 11.3 | 83.8 | 141 |
| D27 (8893798) | | 0.959 | 103 | 0.5 | 8.8 | 96.6 | 103 |
| D28 (8893799) | | 0.967 | 88.9 | 0.4 | 8.9 | 113 | 108 |
| E1 (8893800) | | 0.702 | 80.6 | 0.4 | 7.5 | 37.5 | 96.0 |
| E2 (8893801) | | 0.848 | 74.3 | 0.4 | 8.4 | 36.0 | 97.2 |
| E3 (8893802) | | 0.884 | 86.9 | 0.4 | 10.1 | 43.1 | 85.4 |
| E4 (8893803) | | 0.905 | 97.7 | 0.4 | 11.0 | 37.9 | 105 |
| E5 (8893804) | | 1.15 | 101 | 0.4 | 12.5 | 43.3 | 100 |
| E6 (8893805) | | 0.874 | 101 | 0.5 | 10.0 | 51.3 | 108 |
| E7 (8893806) | | 0.771 | 86.0 | 0.5 | 8.0 | 45.8 | 92.1 |
| E8 (8893807) | | 0.845 | 80.1 | 0.5 | 8.3 | 37.5 | 109 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282581

PROJECT:

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 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 02, 2018

SAMPLE TYPE: Other

| Analyte: | U | V | W | Y | Zn | Zr |
|---------------|-------|------|-----|------|------|------|
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm |
| RDL: | 0.005 | 0.5 | 0.1 | 0.1 | 0.5 | 0.5 |
| E9 (8893808) | 0.780 | 92.0 | 0.4 | 8.6 | 27.0 | 100 |
| E10 (8893809) | 0.684 | 106 | 0.5 | 7.0 | 45.9 | 78.5 |
| E11 (8893810) | 0.802 | 104 | 0.4 | 8.9 | 41.3 | 139 |
| E12 (8893811) | 0.749 | 98.9 | 0.6 | 8.4 | 53.8 | 88.5 |
| E13 (8893812) | 0.760 | 110 | 0.4 | 8.3 | 63.6 | 93.2 |
| E14 (8893813) | 0.708 | 90.7 | 0.4 | 7.6 | 75.0 | 69.8 |
| E15 (8893814) | 0.932 | 99.4 | 1.0 | 8.3 | 122 | 84.8 |
| E16 (8893815) | 0.869 | 78.3 | 0.4 | 8.9 | 52.6 | 137 |
| E17 (8893816) | 0.981 | 81.9 | 0.5 | 8.7 | 124 | 128 |
| E18 (8893817) | 0.811 | 68.7 | 0.4 | 7.2 | 112 | 118 |
| E19 (8893818) | 1.19 | 90.5 | 0.4 | 13.3 | 96.7 | 193 |
| E20 (8893819) | 0.892 | 83.8 | 0.5 | 9.0 | 45.5 | 123 |
| E21 (8893820) | 0.841 | 118 | 0.4 | 11.0 | 43.7 | 157 |
| E22 (8893821) | 0.860 | 97.3 | 0.4 | 8.5 | 78.5 | 109 |
| E23 (8893822) | 0.823 | 79.2 | 0.3 | 11.0 | 30.7 | 105 |
| E24 (8893823) | 0.685 | 82.6 | 0.4 | 7.5 | 63.7 | 83.7 |
| E25 (8893824) | 0.647 | 73.5 | 0.4 | 7.2 | 22.3 | 102 |
| E26 (8893825) | 0.822 | 99.8 | 0.4 | 7.8 | 38.2 | 104 |
| E27 (8893826) | 0.818 | 107 | 0.4 | 7.8 | 35.3 | 103 |
| E28 (8893827) | 0.602 | 75.7 | 0.2 | 6.5 | 18.2 | 86.4 |
| E29 (8893828) | 0.688 | 77.5 | 0.3 | 6.4 | 25.6 | 103 |
| E30 (8893829) | 0.842 | 93.7 | 0.4 | 10.6 | 31.9 | 104 |
| E31 (8893830) | 0.965 | 93.1 | 0.4 | 9.0 | 31.7 | 98.0 |
| E32 (8893831) | 0.910 | 78.9 | 0.6 | 7.1 | 29.3 | 139 |
| E33 (8893832) | 0.558 | 70.8 | 0.9 | 6.5 | 40.1 | 69.0 |
| E34 (8893833) | 1.50 | 66.1 | 0.3 | 7.5 | 24.8 | 54.6 |
| E35 (8893834) | 0.693 | 77.8 | 0.3 | 8.0 | 29.2 | 107 |
| E36 (8893835) | 0.847 | 85.1 | 0.4 | 7.8 | 51.3 | 101 |
| E37 (8893836) | 0.871 | 85.0 | 0.5 | 8.0 | 43.5 | 120 |
| E38 (8893837) | 0.747 | 68.6 | 0.4 | 7.3 | 24.1 | 117 |
| E39 (8893838) | 0.666 | 62.2 | 0.3 | 6.7 | 38.8 | 90.3 |
| E40 (8893839) | 0.544 | 61.9 | 0.4 | 6.1 | 24.9 | 95.1 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282581

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | DATE REPORTED: Jan 02, 2018 | | | SAMPLE TYPE: Other |
|----------------------------|-----------------------------|-------|------|-----------------------------|-----|------|--------------------|
| Analyte: | U | V | W | Y | Zn | Zr | |
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm | |
| Sample ID (AGAT ID) | RDL: | 0.005 | 0.5 | 0.1 | 0.1 | 0.5 | 0.5 |
| E41 (8893840) | | 0.663 | 76.5 | 1.4 | 7.2 | 38.1 | 104 |
| E42 (8893841) | | 0.780 | 122 | 0.3 | 8.1 | 96.5 | 99.1 |
| E43 (8893842) | | 0.587 | 75.0 | 0.3 | 6.6 | 87.9 | 79.9 |
| E44 (8893843) | | 0.819 | 86.7 | 0.4 | 7.4 | 118 | 95.4 |
| E45 (8893844) | | 0.983 | 103 | 0.5 | 9.4 | 94.7 | 131 |
| F1 (8893845) | | 0.691 | 62.4 | 0.3 | 6.4 | 22.4 | 84.4 |
| F2 (8893846) | | 0.439 | 66.6 | 0.2 | 5.9 | 17.0 | 57.6 |
| F3 (8893847) | | 0.680 | 92.5 | 0.3 | 9.1 | 25.0 | 93.8 |

Comments: RDL - Reported Detection Limit
 8893776-8893847 As, Sb values may be low due to digestion losses.

Certified By:



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| Parameter | REPLICATE #1 | | | | REPLICATE #2 | | | | REPLICATE #3 | | | | REPLICATE #4 | | | |
|-----------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|
| | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD |
| Ag | 8893776 | 0.54 | 0.54 | 0.0% | 8893795 | 0.31 | 0.34 | 9.2% | 8893815 | 0.33 | 0.35 | 5.9% | 8893835 | 0.442 | 0.497 | 11.7% |
| Al | 8893776 | 6.79 | 7.15 | 5.2% | 8893795 | 7.34 | 7.47 | 1.8% | 8893815 | 7.74 | 7.61 | 1.7% | 8893835 | 7.37 | 7.07 | 4.2% |
| As | 8893776 | 8.8 | 6.8 | 25.6% | 8893795 | 3.3 | 3.2 | 3.1% | 8893815 | 3.6 | 3.1 | 14.9% | 8893835 | 5.9 | 6.0 | 1.7% |
| Ba | 8893776 | 421 | 434 | 3.0% | 8893795 | 512 | 511 | 0.2% | 8893815 | 559 | 553 | 1.1% | 8893835 | 483 | 468 | 3.2% |
| Be | 8893776 | 1.30 | 1.38 | 6.0% | 8893795 | 1.44 | 1.52 | 5.4% | 8893815 | 1.32 | 1.48 | 11.4% | 8893835 | 1.33 | 1.43 | 7.2% |
| Bi | 8893776 | 0.27 | 0.21 | 25.0% | 8893795 | 0.11 | 0.12 | 8.7% | 8893815 | 0.10 | 0.11 | 9.5% | 8893835 | 0.14 | 0.14 | 0.0% |
| Ca | 8893776 | 1.28 | 1.32 | 3.1% | 8893795 | 1.45 | 1.47 | 1.4% | 8893815 | 1.61 | 1.58 | 1.9% | 8893835 | 1.35 | 1.30 | 3.8% |
| Cd | 8893776 | 0.122 | 0.103 | 16.9% | 8893795 | 0.08 | 0.08 | 0.0% | 8893815 | 0.07 | 0.08 | 13.3% | 8893835 | 0.09 | 0.09 | 0.0% |
| Ce | 8893776 | 37.6 | 41.0 | 8.7% | 8893795 | 29.8 | 31.7 | 6.2% | 8893815 | 35.2 | 40.3 | 13.5% | 8893835 | 25.1 | 31.4 | 22.3% |
| Co | 8893776 | 17.4 | 16.4 | 5.9% | 8893795 | 17.1 | 17.7 | 3.4% | 8893815 | 12.4 | 13.5 | 8.5% | 8893835 | 16.5 | 17.6 | 6.5% |
| Cr | 8893776 | 100 | 92.7 | 7.6% | 8893795 | 76.6 | 70.3 | 8.6% | 8893815 | 73.6 | 76.0 | 3.2% | 8893835 | 75.7 | 77.1 | 1.8% |
| Cs | 8893776 | 1.71 | 1.64 | 4.2% | 8893795 | 1.99 | 2.36 | 17.0% | 8893815 | 1.67 | 1.82 | 8.6% | 8893835 | 2.14 | 2.26 | 5.5% |
| Cu | 8893776 | 180 | 70.9 | | 8893795 | 15.6 | 14.6 | 6.6% | 8893815 | 14.5 | 15.2 | 4.7% | 8893835 | 17.0 | 17.1 | 0.6% |
| Fe | 8893776 | 4.24 | 4.36 | 2.8% | 8893795 | 3.06 | 3.00 | 2.0% | 8893815 | 2.83 | 2.77 | 2.1% | 8893835 | 3.41 | 3.25 | 4.8% |
| Ga | 8893776 | 17.3 | 16.3 | 6.0% | 8893795 | 18.3 | 19.5 | 6.3% | 8893815 | 17.5 | 19.3 | 9.8% | 8893835 | 18.8 | 20.3 | 7.7% |
| Ge | 8893776 | 0.38 | 0.73 | | 8893795 | 0.08 | 0.10 | 22.2% | 8893815 | 0.20 | 0.21 | 4.9% | 8893835 | < 0.05 | < 0.05 | 0.0% |
| Hf | 8893776 | 3.2 | 3.7 | 14.5% | 8893795 | 3.1 | 3.7 | 17.6% | 8893815 | 3.4 | 3.8 | 11.1% | 8893835 | 2.5 | 2.8 | 11.3% |
| In | 8893776 | 0.0337 | 0.0261 | 25.4% | 8893795 | 0.025 | 0.031 | | 8893815 | 0.021 | 0.03 | 35.3% | 8893835 | 0.028 | 0.028 | 0.0% |
| K | 8893776 | 1.41 | 1.48 | 4.8% | 8893795 | 1.76 | 1.74 | 1.1% | 8893815 | 1.97 | 1.94 | 1.5% | 8893835 | 1.68 | 1.56 | 7.4% |
| La | 8893776 | 18.0 | 19.3 | 7.0% | 8893795 | 13.6 | 14.6 | 7.1% | 8893815 | 15.9 | 18.4 | 14.6% | 8893835 | 11.1 | 13.6 | 20.2% |
| Li | 8893776 | 23.1 | 23.4 | 1.3% | 8893795 | 22.2 | 22.2 | 0.0% | 8893815 | 19.6 | 19.3 | 1.5% | 8893835 | 25.5 | 24.6 | 3.6% |
| Mg | 8893776 | 0.72 | 0.74 | 2.7% | 8893795 | 0.76 | 0.75 | 1.3% | 8893815 | 0.865 | 0.845 | 2.3% | 8893835 | 0.806 | 0.759 | 6.0% |
| Mn | 8893776 | 451 | 452 | 0.2% | 8893795 | 358 | 356 | 0.6% | 8893815 | 404 | 390 | 3.5% | 8893835 | 400 | 379 | 5.4% |
| Mo | 8893776 | 0.76 | 0.96 | 23.3% | 8893795 | 0.52 | 0.61 | 15.9% | 8893815 | 0.42 | 0.47 | 11.2% | 8893835 | 0.634 | 0.667 | 5.1% |
| Na | 8893776 | 1.61 | 1.69 | 4.8% | 8893795 | 1.95 | 1.99 | 2.0% | 8893815 | 2.13 | 2.10 | 1.4% | 8893835 | 1.76 | 1.69 | 4.1% |
| Nb | 8893776 | 6.86 | 6.30 | 8.5% | 8893795 | 6.0 | 6.8 | 12.5% | 8893815 | 6.1 | 6.6 | 7.9% | 8893835 | 5.8 | 6.1 | 5.0% |
| Ni | 8893776 | 61.5 | 47.5 | 25.7% | 8893795 | 41.9 | 39.8 | 5.1% | 8893815 | 36.4 | 37.9 | 4.0% | 8893835 | 45.8 | 46.6 | 1.7% |
| P | 8893776 | 751 | 751 | 0.0% | 8893795 | 465 | 455 | 2.2% | 8893815 | 590 | 635 | 7.3% | 8893835 | 764 | 800 | 4.6% |
| Pb | 8893776 | 14.2 | 13.5 | 5.1% | 8893795 | 13.9 | 15.6 | 11.5% | 8893815 | 10.9 | 11.4 | 4.5% | 8893835 | 10.5 | 11.6 | 10.0% |
| Rb | 8893776 | 53.0 | 50.2 | 5.4% | 8893795 | 61.8 | 69.6 | 11.9% | 8893815 | 63.4 | 65.6 | 3.4% | 8893835 | 59.2 | 64.7 | 8.9% |
| Re | 8893776 | < 0.002 | 0.005 | | 8893795 | < 0.002 | < 0.002 | 0.0% | 8893815 | < 0.002 | < 0.002 | 0.0% | 8893835 | < 0.002 | < 0.002 | 0.0% |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

| | | | | | | | | | | | | | | | | |
|----|---------|-------|-------|-------|---------|-------|------|-------|---------|-------|-------|-------|---------|-------|-------|-------|
| S | 8893776 | 0.06 | 0.05 | 18.2% | 8893795 | 0.04 | 0.04 | 0.0% | 8893815 | 0.04 | 0.04 | 0.0% | 8893835 | 0.055 | 0.054 | 1.8% |
| Sb | 8893776 | 0.25 | 0.26 | 3.9% | 8893795 | 0.14 | 0.15 | 6.9% | 8893815 | 0.12 | 0.13 | 8.0% | 8893835 | 0.164 | 0.197 | 18.3% |
| Sc | 8893776 | 11.0 | 10.7 | 2.8% | 8893795 | 10.7 | 11.2 | 4.6% | 8893815 | 10.4 | 11.1 | 6.5% | 8893835 | 10.1 | 10.8 | 6.7% |
| Se | 8893776 | 1.7 | 1.1 | | 8893795 | 1.2 | 1.5 | 22.2% | 8893815 | 1.1 | 1.3 | 16.7% | 8893835 | 1.33 | 1.55 | 15.3% |
| Sn | 8893776 | 1.6 | 1.3 | 20.7% | 8893795 | 1.1 | 1.3 | 16.7% | 8893815 | 0.9 | 1.0 | 10.5% | 8893835 | 0.9 | 1.0 | 10.5% |
| Sr | 8893776 | 261 | 265 | 1.5% | 8893795 | 307 | 311 | 1.3% | 8893815 | 323 | 318 | 1.6% | 8893835 | 269 | 256 | 5.0% |
| Ta | 8893776 | 0.504 | 0.594 | 16.4% | 8893795 | 0.49 | 0.50 | 2.0% | 8893815 | 0.49 | 0.52 | 5.9% | 8893835 | 0.501 | 0.539 | 7.3% |
| Te | 8893776 | 0.24 | 0.14 | | 8893795 | 0.04 | 0.03 | 28.6% | 8893815 | 0.04 | 0.05 | | 8893835 | 0.05 | 0.05 | 0.0% |
| Th | 8893776 | 6.28 | 7.36 | 15.8% | 8893795 | 4.1 | 4.6 | 11.5% | 8893815 | 5.2 | 4.9 | 5.9% | 8893835 | 3.9 | 5.1 | 26.7% |
| Ti | 8893776 | 0.40 | 0.40 | 0.0% | 8893795 | 0.32 | 0.32 | 0.0% | 8893815 | 0.36 | 0.35 | 2.8% | 8893835 | 0.326 | 0.317 | 2.8% |
| Tl | 8893776 | 0.21 | 0.21 | 0.0% | 8893795 | 0.25 | 0.29 | 14.8% | 8893815 | 0.26 | 0.28 | 7.4% | 8893835 | 0.241 | 0.259 | 7.2% |
| U | 8893776 | 1.07 | 1.27 | 17.1% | 8893795 | 0.853 | 0.94 | 9.7% | 8893815 | 0.869 | 0.889 | 2.3% | 8893835 | 0.847 | 1.09 | 25.1% |
| V | 8893776 | 116 | 107 | 8.1% | 8893795 | 81.6 | 93.8 | 13.9% | 8893815 | 78.3 | 80.6 | 2.9% | 8893835 | 85.1 | 98.8 | 14.9% |
| W | 8893776 | 0.5 | 0.5 | 0.0% | 8893795 | 0.4 | 0.3 | | 8893815 | 0.4 | 0.5 | 22.2% | 8893835 | 0.4 | 0.5 | 22.2% |
| Y | 8893776 | 10.0 | 10.4 | 3.9% | 8893795 | 8.3 | 9.3 | 11.4% | 8893815 | 8.9 | 9.6 | 7.6% | 8893835 | 7.82 | 8.71 | 10.8% |
| Zn | 8893776 | 55.4 | 52.8 | 4.8% | 8893795 | 63.0 | 63.0 | 0.0% | 8893815 | 52.6 | 52.0 | 1.1% | 8893835 | 51.3 | 53.1 | 3.4% |
| Zr | 8893776 | 133 | 149 | 11.3% | 8893795 | 127 | 131 | 3.1% | 8893815 | 137 | 151 | 9.7% | 8893835 | 101 | 108 | 6.7% |

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| Parameter | CRM #1 (ref.SY-4) | | | | CRM #2 (ref.GTS-2A) | | | | CRM #3 (ref.Till-2) | | | | CRM #4 (ref.SY-4) | | | |
|-----------|-------------------|--------|----------|------------|---------------------|--------|----------|------------|---------------------|--------|----------|------------|-------------------|--------|----------|------------|
| | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits |
| Al | 10.95 | 11.37 | 104% | 90% - 110% | 6.96 | 7.34 | 106% | 90% - 110% | | | | | | | | |
| As | | | | | 124 | 133 | 107% | 90% - 110% | | | | | | | | |
| Ba | 340 | 346 | 102% | 90% - 110% | 186 | 191 | 102% | 90% - 110% | | | | | | | | |
| Be | 2.6 | 3.0 | 115% | 90% - 110% | | | | | | | | | | | | |
| Ca | 5.72 | 5.9 | 103% | 90% - 110% | 4.01 | 4.25 | 106% | 90% - 110% | | | | | | | | |
| Ce | 122 | 118 | 96% | 90% - 110% | 24 | 21.8 | 91% | 90% - 110% | | | | | | | | |
| Co | 2.8 | 2.7 | 96% | 90% - 110% | 22.1 | 24.3 | 109% | 90% - 110% | | | | | | | | |
| Cs | 1.5 | 1.7 | 113% | 90% - 110% | | | | | | | | | | | | |
| Cu | 7 | 8 | 108% | 90% - 110% | 88.6 | 96.9 | 109% | 90% - 110% | | | | | | | | |
| Fe | 4.34 | 4.25 | 98% | 90% - 110% | 7.56 | 7.73 | 102% | 90% - 110% | | | | | | | | |
| Ga | 35 | 38 | 108% | 90% - 110% | | | | | | | | | | | | |
| K | 1.37 | 1.5 | 109% | 90% - 110% | 2.021 | 2.147 | 106% | 90% - 110% | | | | | | | | |
| La | 58 | 52.2 | 90% | 90% - 110% | | | | | | | | | | | | |
| Li | 37 | 40 | 108% | 90% - 110% | | | | | | | | | | | | |
| Mg | 0.325 | 0.325 | 100% | 90% - 110% | 2.412 | 2.575 | 107% | 90% - 110% | | | | | | | | |
| Mn | | | | | 1510 | 1556 | 103% | 90% - 110% | | | | | | | | |
| Na | 5.267 | 5.693 | 108% | 90% - 110% | 0.617 | 0.674 | 109% | 90% - 110% | | | | | | | | |
| Nb | 13 | 13 | 99% | 90% - 110% | | | | | | | | | | | | |
| Ni | 9 | 7 | 80% | 90% - 110% | 77.1 | 73.7 | 96% | 90% - 110% | | | | | | | | |
| P | | | | | 892 | 935 | 104% | 90% - 110% | | | | | | | | |
| Pb | 10 | 9 | 90% | 90% - 110% | | | | | | | | | | | | |
| Rb | 55 | 60 | 109% | 90% - 110% | | | | | | | | | | | | |
| S | | | | | 0.348 | 0.382 | 109% | 90% - 110% | | | | | | | | |
| Sc | 1.1 | 1.2 | 109% | 90% - 110% | | | | | | | | | | | | |
| Sr | 1191 | 1282 | 107% | 90% - 110% | 92.8 | 99.5 | 107% | 90% - 110% | | | | | | | | |
| Ta | 0.9 | 0.9 | 100% | 90% - 110% | | | | | | | | | | | | |
| Th | 1.4 | 1.2 | 85% | 90% - 110% | | | | | | | | | | | | |
| Ti | 0.172 | 0.179 | 104% | 90% - 110% | | | | | | | | | | | | |
| V | 8 | 7 | 83% | 90% - 110% | | | | | 77 | 85 | 110% | 90% - 110% | 8 | 8 | 96% | 90% - 110% |
| Y | 119 | 126 | 105% | 90% - 110% | | | | | | | | | | | | |
| Zn | 93 | 87 | 93% | 90% - 110% | 208 | 208 | 100% | 90% - 110% | | | | | | | | |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

| Parameter | CRM #5 (ref.Till-2) | | | | CRM #6 (ref.SY-4) | | | | CRM #7 (ref.GTS-2A) | | | | | | | |
|-----------|---------------------|--------|----------|------------|-------------------|--------|----------|------------|---------------------|--------|----------|------------|--|--|--|--|
| | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | | | | |
| Al | 8.17 | 8.9 | 109% | 90% - 110% | 10.95 | 10.59 | 97% | 90% - 110% | 6.96 | 6.77 | 97% | 90% - 110% | | | | |
| Ba | 540 | 556 | 103% | 90% - 110% | 340 | 328 | 97% | 90% - 110% | 186 | 180 | 97% | 90% - 110% | | | | |
| Be | 4.0 | 3.9 | 97% | 90% - 110% | 2.6 | 2.9 | 112% | 90% - 110% | | | | | | | | |
| Ca | 0.907 | 1.001 | 110% | 90% - 110% | 5.72 | 5.4 | 94% | 90% - 110% | 4.01 | 3.92 | 98% | 90% - 110% | | | | |
| Ce | 98 | 98.6 | 101% | 90% - 110% | 122 | 111 | 91% | 90% - 110% | 24 | 21.6 | 90% | 90% - 110% | | | | |
| Co | | | | | 2.8 | 2.5 | 89% | 90% - 110% | 22.1 | 24 | 108% | 90% - 110% | | | | |
| Cr | 60.3 | 60.4 | 100% | 90% - 110% | | | | | | | | | | | | |
| Cs | 12 | 14 | 116% | 90% - 110% | 1.5 | 1.7 | 113% | 90% - 110% | | | | | | | | |
| Cu | 150 | 162 | 108% | 90% - 110% | | | | | 88.6 | 88.4 | 100% | 90% - 110% | | | | |
| Fe | 3.77 | 4.02 | 107% | 90% - 110% | 4.34 | 4.1 | 94% | 90% - 110% | 7.56 | 7.15 | 95% | 90% - 110% | | | | |
| Ga | | | | | 35 | 39 | 111% | 90% - 110% | | | | | | | | |
| K | | | | | 1.37 | 1.39 | 101% | 90% - 110% | 2.021 | 2.005 | 99% | 90% - 110% | | | | |
| La | 44 | 40.1 | 91% | 90% - 110% | 58 | 45.6 | 79% | 90% - 110% | | | | | | | | |
| Li | 47 | 50 | 107% | 90% - 110% | 37 | 40 | 108% | 90% - 110% | | | | | | | | |
| Mg | 1.10 | 1.15 | 104% | 90% - 110% | 0.325 | 0.298 | 92% | 90% - 110% | 2.412 | 2.375 | 98% | 90% - 110% | | | | |
| Mn | 780 | 799 | 102% | 90% - 110% | | | | | 1510 | 1453 | 96% | 90% - 110% | | | | |
| Mo | 14 | 12 | 85% | 90% - 110% | | | | | | | | | | | | |
| Na | 1.624 | 1.733 | 106% | 90% - 110% | 5.267 | 5.547 | 105% | 90% - 110% | 0.617 | 0.624 | 101% | 90% - 110% | | | | |
| Nb | 20 | 18 | 90% | 90% - 110% | 13 | 12 | 89% | 90% - 110% | | | | | | | | |
| Ni | 32 | 33 | 103% | 90% - 110% | 9 | 7 | 78% | 90% - 110% | 77.1 | 69.1 | 90% | 90% - 110% | | | | |
| P | | | | | | | | | 892 | 966 | 108% | 90% - 110% | | | | |
| Pb | 31 | 27 | 89% | 90% - 110% | 10 | 8 | 81% | 90% - 110% | | | | | | | | |
| Rb | | | | | 55 | 61 | 110% | 90% - 110% | | | | | | | | |
| S | | | | | | | | | 0.348 | 0.379 | 109% | 90% - 110% | | | | |
| Sb | 0.8 | 0.8 | 100% | 90% - 110% | | | | | | | | | | | | |
| Sc | 12 | 14 | 116% | 90% - 110% | 1.1 | 0.9 | 86% | 90% - 110% | | | | | | | | |
| Sr | 144 | 157 | 109% | 90% - 110% | 1191 | 1250 | 105% | 90% - 110% | 92.8 | 92.3 | 99% | 90% - 110% | | | | |
| Ta | 1.9 | 1.4 | 73% | 90% - 110% | 0.9 | 1 | 106% | 90% - 110% | | | | | | | | |
| Th | 18.4 | 16.4 | 89% | 90% - 110% | | | | | | | | | | | | |
| Ti | 0.53 | 0.5 | 95% | 90% - 110% | 0.172 | 0.167 | 97% | 90% - 110% | | | | | | | | |
| U | 5.7 | 4.1 | 72% | 90% - 110% | | | | | | | | | | | | |
| V | | | | | 8 | 7 | 81% | 90% - 110% | | | | | | | | |



AGAT Laboratories

Quality Assurance - Certified Reference materials

AGAT WORK ORDER: 17T282581

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

| | | | | | | | | | | | | | | | | |
|----|-----|-----|-----|------------|-----|----|-----|------------|-----|-----|-----|------------|--|--|--|--|
| W | 5 | 4 | 88% | 90% - 110% | | | | | | | | | | | | |
| Y | | | | | 119 | 98 | 82% | 90% - 110% | | | | | | | | |
| Zn | 130 | 122 | 94% | 90% - 110% | 93 | 83 | 89% | 90% - 110% | 208 | 199 | 96% | 90% - 110% | | | | |

Method Summary

CLIENT NAME: CRUZ COBALT CORP.

AGAT WORK ORDER: 17T282581

PROJECT:

ATTENTION TO: Jason Gigliotti, Jim Nelson

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|----------------|---------------|----------------------|----------------------|
| Solid Analysis | | | |
| Ag | MIN-200-12020 | | ICP-MS |
| Al | MIN-200-12020 | | ICP/OES |
| As | MIN-200-12020 | | ICP-MS |
| Ba | MIN-200-12020 | | ICP-MS |
| Be | MIN-200-12020 | | ICP-MS |
| Bi | MIN-200-12020 | | ICP-MS |
| Ca | MIN-200-12020 | | ICP/OES |
| Cd | MIN-200-12020 | | ICP-MS |
| Ce | MIN-200-12020 | | ICP-MS |
| Co | MIN-200-12020 | | ICP-MS |
| Cr | MIN-200-12020 | | ICP/OES |
| Cs | MIN-200-12020 | | ICP-MS |
| Cu | MIN-200-12020 | | ICP-MS |
| Fe | MIN-200-12020 | | ICP/OES |
| Ga | MIN-200-12020 | | ICP-MS |
| Ge | MIN-200-12020 | | ICP-MS |
| Hf | MIN-200-12020 | | ICP-MS |
| In | MIN-200-12020 | | ICP-MS |
| K | MIN-200-12020 | | ICP/OES |
| La | MIN-200-12020 | | ICP-MS |
| Li | MIN-200-12020 | | ICP-MS |
| Mg | MIN-200-12020 | | ICP/OES |
| Mn | MIN-200-12020 | | ICP/OES |
| Mo | MIN-200-12020 | | ICP-MS |
| Na | MIN-200-12020 | | ICP/OES |
| Nb | MIN-200-12020 | | ICP-MS |
| Ni | MIN-200-12020 | | ICP-MS |
| P | MIN-200-12020 | | ICP/OES |
| Pb | MIN-200-12020 | | ICP-MS |
| Rb | MIN-200-12020 | | ICP-MS |
| Re | MIN-200-12020 | | ICP-MS |
| S | MIN-200-12020 | | ICP/OES |
| Sb | MIN-200-12020 | | ICP-MS |
| Sc | MIN-200-12020 | | ICP-MS |
| Se | MIN-200-12020 | | ICP-MS |
| Sn | MIN-200-12020 | | ICP-MS |
| Sr | MIN-200-12020 | | ICP-MS |
| Ta | MIN-200-12020 | | ICP-MS |
| Te | MIN-200-12020 | | ICP-MS |
| Th | MIN-200-12020 | | ICP-MS |
| Ti | MIN-200-12020 | | ICP/OES |
| Tl | MIN-200-12020 | | ICP-MS |
| U | MIN-200-12020 | | ICP-MS |
| V | MIN-200-12020 | | ICP/OES |
| W | MIN-200-12020 | | ICP-MS |
| Y | MIN-200-12020 | | ICP-MS |
| Zn | MIN-200-12020 | | ICP-MS |
| Zr | MIN-200-12020 | | ICP-MS |

CLIENT NAME: CRUZ COBALT CORP.
P.O BOX 10112 1470-701 W. GEORGIA ST
VANCOUVER, BC V7Y 1C6
604-646-6908

ATTENTION TO: Jason Gigliotti, Jim Nelson

PROJECT:

AGAT WORK ORDER: 17T282583

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Jan 08, 2018

PAGES (INCLUDING COVER): 18

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 17T282583

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 08, 2018

SAMPLE TYPE: Other

| Sample ID (AGAT ID) | Analyte: Unit: RDL: | Ag ppm 0.01 | Al % 0.01 | As ppm 0.2 | Ba ppm 1 | Be ppm 0.05 | Bi ppm 0.01 | Ca % 0.01 | Cd ppm 0.02 | Ce ppm 0.01 | Co ppm 0.05 | Cr ppm 0.5 | Cs ppm 0.01 | Cu ppm 0.5 | Fe % 0.01 |
|---------------------|---------------------------|-------------------|-----------------|------------------|----------------|-------------------|-------------------|-----------------|-------------------|-------------------|-------------------|------------------|-------------------|------------------|-----------------|
| F4 (8893859) | | 0.17 | 6.20 | 1.7 | 478 | 1.12 | 0.10 | 1.64 | 0.04 | 20.6 | 9.79 | 48.2 | 1.19 | 23.5 | 2.20 |
| F5 (8893860) | | 0.13 | 6.52 | 3.2 | 539 | 1.27 | 0.11 | 1.68 | 0.03 | 35.6 | 11.7 | 55.2 | 1.45 | 35.6 | 2.40 |
| F6 (8893861) | | 0.18 | 5.70 | 3.4 | 435 | 1.17 | 0.11 | 1.59 | 0.03 | 23.7 | 9.17 | 44.6 | 0.95 | 54.1 | 2.21 |
| F7 (8893862) | | 0.14 | 6.58 | 2.8 | 498 | 1.26 | 0.09 | 1.42 | 0.04 | 19.8 | 10.6 | 44.3 | 1.21 | 14.8 | 2.39 |
| F8 (8893863) | | 0.24 | 6.37 | 1.9 | 505 | 1.49 | 0.09 | 1.40 | 0.05 | 21.3 | 9.44 | 38.0 | 1.21 | 9.8 | 2.26 |
| F9 (8893864) | | 0.21 | 6.55 | 2.5 | 480 | 1.33 | 0.10 | 1.47 | 0.07 | 21.3 | 10.9 | 71.2 | 1.39 | 8.8 | 3.01 |
| F10 (8893865) | | 0.31 | 8.59 | 2.7 | 563 | 1.42 | 0.13 | 1.88 | 0.11 | 50.4 | 16.0 | 94.1 | 1.74 | 11.9 | 3.85 |
| F11 (8893866) | | 0.31 | 7.24 | 2.0 | 469 | 1.30 | 0.10 | 1.41 | 0.09 | 25.9 | 12.7 | 79.3 | 1.46 | 15.4 | 3.31 |
| F12 (8893867) | | 0.36 | 7.12 | 2.8 | 442 | 1.10 | 0.14 | 1.36 | 0.07 | 19.5 | 11.7 | 80.3 | 1.47 | 14.5 | 3.87 |
| F13 (8893868) | | 0.29 | 6.92 | 3.6 | 449 | 1.33 | 0.11 | 1.41 | 0.06 | 21.4 | 12.7 | 71.5 | 1.56 | 15.1 | 3.21 |
| F14 (8893869) | | 0.22 | 6.34 | 1.8 | 423 | 1.13 | 0.11 | 1.37 | 0.07 | 27.4 | 9.43 | 60.5 | 1.24 | 9.3 | 2.95 |
| F15 (8893870) | | 0.40 | 6.72 | 2.4 | 431 | 1.23 | 0.09 | 1.36 | 0.05 | 17.3 | 9.35 | 65.1 | 1.26 | 10.0 | 2.89 |
| F16 (8893871) | | 0.17 | 6.41 | 2.5 | 441 | 1.22 | 0.08 | 1.44 | 0.05 | 39.0 | 10.3 | 54.0 | 1.03 | 8.1 | 2.79 |
| F17 (8893872) | | 0.15 | 6.14 | 1.7 | 424 | 1.11 | 0.10 | 1.62 | 0.07 | 27.9 | 10.7 | 81.6 | 0.93 | 7.5 | 3.41 |
| F18 (8893873) | | 0.21 | 6.50 | 2.7 | 521 | 1.23 | 0.12 | 1.36 | 0.04 | 21.3 | 8.96 | 43.7 | 0.95 | 7.9 | 2.10 |
| F19 (8893874) | | 0.44 | 5.99 | 4.0 | 419 | 1.09 | 0.12 | 1.33 | 0.09 | 21.1 | 9.39 | 57.5 | 1.15 | 10.9 | 2.64 |
| F20 (8893875) | | 0.23 | 7.19 | 4.4 | 575 | 1.31 | 0.15 | 1.67 | 0.07 | 29.9 | 10.6 | 53.5 | 1.59 | 26.9 | 2.51 |
| F21 (8893876) | | 0.14 | 6.06 | 1.8 | 499 | 1.15 | 0.08 | 1.53 | 0.05 | 16.8 | 8.18 | 40.6 | 0.86 | 7.0 | 2.25 |
| F22 (8893877) | | 0.27 | 6.59 | 2.5 | 429 | 1.12 | 0.12 | 1.49 | 0.08 | 20.5 | 11.0 | 64.1 | 0.99 | 9.7 | 3.07 |
| F23 (8893878) | | 0.25 | 6.48 | 3.2 | 499 | 1.22 | 0.13 | 1.44 | 0.06 | 25.7 | 10.2 | 52.3 | 1.26 | 28.1 | 2.43 |
| F24 (8893879) | | 0.38 | 5.45 | 5.7 | 434 | 0.99 | 0.27 | 1.21 | 0.09 | 23.4 | 8.79 | 44.5 | 1.34 | 46.3 | 2.38 |
| F25 (8893880) | | 0.36 | 6.19 | 4.1 | 431 | 1.13 | 0.20 | 1.25 | 0.08 | 24.9 | 10.9 | 57.3 | 1.51 | 18.2 | 3.28 |
| F26 (8893881) | | 0.27 | 7.71 | 6.7 | 577 | 1.37 | 0.18 | 1.79 | 0.07 | 38.4 | 13.7 | 62.5 | 1.66 | 72.7 | 3.31 |
| F27 (8893882) | | 0.33 | 6.59 | 13.1 | 477 | 1.21 | 0.11 | 1.48 | 0.06 | 25.3 | 12.4 | 48.0 | 1.09 | 15.6 | 2.61 |
| F28 (8893883) | | 0.76 | 6.33 | 4.9 | 418 | 1.10 | 0.15 | 1.27 | 0.10 | 25.0 | 11.5 | 62.1 | 1.62 | 18.7 | 3.08 |
| F29 (8893884) | | 0.21 | 6.63 | 3.2 | 451 | 1.01 | 0.17 | 1.30 | 0.06 | 19.8 | 9.49 | 42.5 | 1.05 | 6.7 | 2.37 |
| F30 (8893885) | | 0.55 | 7.09 | 7.3 | 354 | 1.18 | 0.21 | 1.09 | 0.09 | 23.9 | 13.0 | 70.4 | 1.84 | 24.3 | 4.69 |
| F31 (8893886) | | 0.28 | 6.36 | 4.3 | 452 | 1.29 | 0.10 | 1.47 | 0.06 | 55.1 | 10.9 | 53.9 | 1.18 | 20.2 | 2.51 |
| F32 (8893887) | | 0.30 | 6.14 | 1.7 | 478 | 1.05 | 0.10 | 1.36 | 0.07 | 24.1 | 7.63 | 48.0 | 1.18 | 7.6 | 2.13 |
| F33 (8893888) | | 0.17 | 6.32 | 2.0 | 490 | 1.19 | 0.09 | 1.32 | 0.02 | 21.5 | 7.51 | 39.6 | 1.01 | 6.0 | 2.19 |
| F34 (8893889) | | 0.26 | 7.16 | 1.8 | 451 | 1.23 | 0.10 | 1.28 | 0.07 | 23.2 | 9.48 | 60.1 | 1.18 | 6.4 | 3.12 |
| F35 (8893890) | | 0.34 | 6.32 | 2.2 | 480 | 1.08 | 0.10 | 1.55 | 0.07 | 23.6 | 8.12 | 53.1 | 1.11 | 5.8 | 2.65 |

Certified By:

Certificate of Analysis

AGAT WORK ORDER: 17T282583

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | DATE REPORTED: Jan 08, 2018 | | | SAMPLE TYPE: Other | | | | | | | |
|----------------------------|-----------------------------|------|------|-----------------------------|------|------|--------------------|-------|------|------|------|------|------|------|
| Analyte: | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs | Cu | Fe |
| Unit: | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % |
| RDL: | 0.01 | 0.01 | 0.2 | 1 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.05 | 0.5 | 0.01 | 0.5 | 0.01 |
| F36 (8893891) | 0.22 | 6.69 | 1.6 | 489 | 1.15 | 0.10 | 1.31 | 0.08 | 27.6 | 10.1 | 71.0 | 1.47 | 8.6 | 2.46 |
| F37 (8893892) | 0.28 | 6.43 | 2.1 | 460 | 1.14 | 0.14 | 1.21 | 0.08 | 22.9 | 12.3 | 75.2 | 1.63 | 8.4 | 3.09 |
| F38 (8893893) | 0.23 | 6.59 | 2.7 | 497 | 1.10 | 0.12 | 1.44 | <0.02 | 41.4 | 11.5 | 58.4 | 1.20 | 9.7 | 2.75 |
| F39 (8893894) | 1.28 | 6.65 | 2.3 | 482 | 1.15 | 0.11 | 1.37 | 0.07 | 22.7 | 11.3 | 69.9 | 1.29 | 11.1 | 2.79 |
| F40 (8893895) | 0.21 | 6.14 | 1.7 | 460 | 1.13 | 0.09 | 1.39 | 0.07 | 26.1 | 8.87 | 76.7 | 1.24 | 6.3 | 2.59 |
| F41 (8893896) | 0.26 | 5.58 | 1.8 | 346 | 0.88 | 0.11 | 1.04 | 0.07 | 22.3 | 10.5 | 49.6 | 1.34 | 9.9 | 2.68 |
| F42 (8893897) | 0.32 | 6.94 | 4.2 | 458 | 1.13 | 0.15 | 1.28 | 0.08 | 28.9 | 13.0 | 83.7 | 1.72 | 19.3 | 3.93 |
| F43 (8893898) | 0.30 | 7.40 | 5.5 | 408 | 1.26 | 0.21 | 1.19 | 0.26 | 27.1 | 14.4 | 80.4 | 1.90 | 16.5 | 3.98 |
| F44 (8893899) | 0.35 | 6.47 | 6.5 | 518 | 1.28 | 0.16 | 1.40 | 0.12 | 29.4 | 9.76 | 63.7 | 1.77 | 8.2 | 2.66 |
| F45 (8893900) | 0.34 | 5.64 | 5.0 | 435 | 1.01 | 0.15 | 1.29 | 0.07 | 24.2 | 11.4 | 69.7 | 1.46 | 11.5 | 3.60 |
| F46 (8893901) | 0.24 | 6.29 | 14.4 | 514 | 1.08 | 0.20 | 1.40 | 0.20 | 29.5 | 11.4 | 67.4 | 2.00 | 12.5 | 3.51 |
| G1 (8893902) | 0.09 | 6.31 | 1.5 | 494 | 1.05 | 0.07 | 1.59 | 0.04 | 34.7 | 8.78 | 71.9 | 1.06 | 11.3 | 2.71 |
| G2 (8893903) | 0.14 | 6.12 | 2.2 | 487 | 0.99 | 0.09 | 1.44 | 0.07 | 30.1 | 8.70 | 63.9 | 1.21 | 6.4 | 2.86 |
| G3 (8893904) | 0.20 | 6.42 | 2.9 | 472 | 1.12 | 0.08 | 1.50 | 0.05 | 19.7 | 9.21 | 55.4 | 1.00 | 6.5 | 2.37 |
| G4 (8893905) | 0.17 | 6.49 | 1.4 | 465 | 1.26 | 0.07 | 1.53 | 0.07 | 22.2 | 8.40 | 49.2 | 0.95 | 5.3 | 2.35 |
| G5 (8893906) | 0.24 | 6.32 | 1.8 | 470 | 1.14 | 0.08 | 1.55 | 0.06 | 28.8 | 9.44 | 79.1 | 1.09 | 6.3 | 2.77 |
| G6 (8893907) | 0.27 | 6.61 | 0.9 | 476 | 1.10 | 0.11 | 1.52 | 0.09 | 19.7 | 7.51 | 61.6 | 1.15 | 6.6 | 3.07 |
| G7 (8893908) | 0.15 | 6.54 | 1.3 | 474 | 1.18 | 0.08 | 1.39 | 0.07 | 24.9 | 8.20 | 55.3 | 1.08 | 6.6 | 2.29 |
| G8 (8893909) | 0.12 | 6.65 | 1.8 | 495 | 1.05 | 0.09 | 1.32 | 0.07 | 22.7 | 7.14 | 48.3 | 1.15 | 4.0 | 2.41 |
| G9 (8893910) | 0.26 | 6.47 | 3.1 | 461 | 1.24 | 0.09 | 1.40 | 0.07 | 20.3 | 9.65 | 52.0 | 1.12 | 6.8 | 2.16 |
| G10 (8893911) | 0.27 | 6.20 | 3.7 | 430 | 1.18 | 0.10 | 1.52 | 0.09 | 26.2 | 10.7 | 66.4 | 1.11 | 9.3 | 3.23 |
| G11 (8893912) | 0.17 | 6.68 | 1.8 | 475 | 1.26 | 0.08 | 1.51 | 0.09 | 36.3 | 8.85 | 59.5 | 1.13 | 5.7 | 2.48 |
| G12 (8893913) | 0.14 | 6.01 | 1.1 | 493 | 1.25 | 0.08 | 1.56 | 0.04 | 37.6 | 7.70 | 54.9 | 1.17 | 7.5 | 2.00 |
| G13 (8893914) | 2.23 | 6.06 | 1.6 | 495 | 1.16 | 0.08 | 1.46 | 0.04 | 23.7 | 5.58 | 56.9 | 1.15 | 3.3 | 2.13 |
| G14 (8893915) | 0.10 | 6.31 | 2.9 | 476 | 1.24 | 0.06 | 1.45 | 0.04 | 20.3 | 8.23 | 54.7 | 0.94 | 5.0 | 2.06 |
| G15 (8893916) | 0.67 | 6.63 | 4.9 | 490 | 1.29 | 0.13 | 1.52 | 0.06 | 42.9 | 11.6 | 69.1 | 1.46 | 19.9 | 2.61 |
| G16 (8893917) | 0.14 | 6.49 | 3.3 | 493 | 1.30 | 0.09 | 1.49 | 0.05 | 28.8 | 11.7 | 49.9 | 1.13 | 10.0 | 2.32 |
| G17 (8893918) | 0.16 | 6.47 | 2.2 | 499 | 1.17 | 0.10 | 1.35 | 0.06 | 20.0 | 12.3 | 50.8 | 1.30 | 7.5 | 2.72 |
| G18 (8893919) | 0.13 | 6.38 | 3.8 | 478 | 1.15 | 0.16 | 1.42 | 0.06 | 26.1 | 11.8 | 65.3 | 1.52 | 16.4 | 3.38 |
| G19 (8893920) | 0.23 | 6.12 | 4.7 | 429 | 1.33 | 0.13 | 1.33 | 0.06 | 48.6 | 13.6 | 61.9 | 1.24 | 28.2 | 2.58 |
| G20 (8893921) | 0.34 | 6.47 | 3.3 | 475 | 1.12 | 0.12 | 1.44 | 0.09 | 27.4 | 10.3 | 57.4 | 1.55 | 6.8 | 2.60 |
| G21 (8893922) | 0.17 | 6.06 | 2.4 | 462 | 1.11 | 0.12 | 1.25 | 0.06 | 26.9 | 7.02 | 59.3 | 1.06 | 5.0 | 2.77 |

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 17T282583

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | DATE REPORTED: Jan 08, 2018 | | | | SAMPLE TYPE: Other | | | | | |
|----------------------------|-----------------------------|------|-----|-----|-----------------------------|------|------|------|--------------------|------|------|------|------|------|
| Analyte: | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs | Cu | Fe |
| Unit: | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % |
| RDL: | 0.01 | 0.01 | 0.2 | 1 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.05 | 0.5 | 0.01 | 0.5 | 0.01 |
| G22 (8893923) | 0.18 | 6.44 | 6.0 | 454 | 1.48 | 0.16 | 1.41 | 0.06 | 36.8 | 14.5 | 65.3 | 1.33 | 21.1 | 2.31 |
| G23 (8893924) | 0.15 | 6.47 | 2.1 | 450 | 1.33 | 0.08 | 1.52 | 0.06 | 27.5 | 9.10 | 55.4 | 0.93 | 5.4 | 2.47 |
| G24 (8893925) | 0.26 | 5.80 | 4.5 | 367 | 0.95 | 0.20 | 0.98 | 0.21 | 20.1 | 7.16 | 60.5 | 1.37 | 14.4 | 3.91 |
| G25 (8893926) | 0.11 | 6.08 | 2.4 | 504 | 1.23 | 0.08 | 1.55 | 0.02 | 25.1 | 8.59 | 31.6 | 1.00 | 10.7 | 1.75 |
| G26 (8893927) | 0.26 | 6.38 | 3.6 | 474 | 1.27 | 0.08 | 1.53 | 0.05 | 31.4 | 9.99 | 60.9 | 1.05 | 6.5 | 2.31 |
| G27 (8893928) | 0.23 | 6.74 | 3.5 | 483 | 1.33 | 0.08 | 1.47 | 0.07 | 23.7 | 10.9 | 49.3 | 1.05 | 5.0 | 2.31 |
| G28 (8893929) | 0.17 | 6.48 | 2.0 | 487 | 1.25 | 0.10 | 1.55 | 0.05 | 18.5 | 9.46 | 49.3 | 1.15 | 3.5 | 2.60 |
| G29 (8893930) | 0.17 | 6.48 | 3.2 | 447 | 1.33 | 0.15 | 1.34 | 0.05 | 48.9 | 17.1 | 70.0 | 1.48 | 17.1 | 2.98 |

Certified By:



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MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
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FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 08, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|-------|-----|-------|------|-----------------------------|------|------|-----|------|--------------------|------|------|------|--|
| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P | |
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm | |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 | |
| F4 (8893859) | 15.1 | <0.05 | 1.9 | 0.027 | 1.57 | 10.2 | 18.0 | 0.84 | 346 | 0.33 | 2.12 | 5.6 | 31.6 | 371 | |
| F5 (8893860) | 16.5 | <0.05 | 2.6 | 0.024 | 1.88 | 18.8 | 19.6 | 1.00 | 355 | 0.32 | 2.17 | 7.3 | 35.8 | 411 | |
| F6 (8893861) | 12.7 | <0.05 | 2.0 | 0.025 | 1.37 | 10.7 | 15.7 | 0.80 | 358 | 0.33 | 2.04 | 4.5 | 34.6 | 364 | |
| F7 (8893862) | 14.4 | <0.05 | 2.2 | 0.023 | 1.52 | 8.4 | 17.5 | 0.66 | 275 | 0.51 | 2.07 | 5.3 | 33.8 | 327 | |
| F8 (8893863) | 14.2 | <0.05 | 1.6 | 0.022 | 1.61 | 10.1 | 15.4 | 0.59 | 284 | 0.33 | 2.15 | 4.5 | 27.8 | 606 | |
| F9 (8893864) | 15.3 | <0.05 | 2.3 | 0.029 | 1.50 | 9.4 | 16.8 | 0.74 | 424 | 0.41 | 1.94 | 6.2 | 32.3 | 608 | |
| F10 (8893865) | 19.3 | <0.05 | 2.5 | 0.036 | 1.79 | 25.2 | 27.9 | 1.01 | 555 | 0.47 | 2.47 | 8.1 | 44.7 | 3250 | |
| F11 (8893866) | 16.0 | <0.05 | 2.5 | 0.030 | 1.44 | 12.9 | 21.2 | 0.72 | 344 | 0.53 | 1.83 | 6.4 | 40.1 | 977 | |
| F12 (8893867) | 16.2 | <0.05 | 3.4 | 0.033 | 1.34 | 9.3 | 26.0 | 0.70 | 390 | 0.66 | 1.77 | 7.1 | 38.1 | 936 | |
| F13 (8893868) | 15.9 | <0.05 | 3.1 | 0.032 | 1.40 | 10.6 | 21.5 | 0.81 | 438 | 0.50 | 1.85 | 7.8 | 39.6 | 865 | |
| F14 (8893869) | 14.9 | <0.05 | 2.1 | 0.026 | 1.32 | 13.4 | 17.4 | 0.64 | 376 | 0.48 | 1.85 | 6.2 | 31.5 | 637 | |
| F15 (8893870) | 14.7 | <0.05 | 2.6 | 0.030 | 1.37 | 8.5 | 18.9 | 0.62 | 309 | 0.47 | 1.87 | 5.6 | 29.7 | 660 | |
| F16 (8893871) | 14.6 | <0.05 | 2.1 | 0.026 | 1.41 | 18.7 | 15.7 | 0.69 | 330 | 0.48 | 2.00 | 5.1 | 29.5 | 467 | |
| F17 (8893872) | 14.5 | <0.05 | 4.4 | 0.025 | 1.37 | 12.7 | 12.3 | 0.68 | 467 | 0.37 | 1.97 | 6.5 | 30.5 | 723 | |
| F18 (8893873) | 14.5 | <0.05 | 2.4 | 0.022 | 1.66 | 9.2 | 12.5 | 0.56 | 270 | 0.35 | 2.11 | 4.3 | 26.8 | 312 | |
| F19 (8893874) | 12.7 | <0.05 | 3.0 | 0.029 | 1.28 | 10.2 | 14.8 | 0.61 | 305 | 0.52 | 1.72 | 5.7 | 26.7 | 528 | |
| F20 (8893875) | 17.0 | <0.05 | 2.5 | 0.030 | 1.77 | 13.3 | 19.5 | 0.83 | 374 | 0.56 | 2.45 | 6.4 | 35.4 | 391 | |
| F21 (8893876) | 13.9 | <0.05 | 1.9 | 0.020 | 1.54 | 7.0 | 11.8 | 0.58 | 330 | 0.38 | 2.25 | 4.6 | 22.4 | 370 | |
| F22 (8893877) | 13.4 | <0.05 | 2.0 | 0.030 | 1.30 | 9.8 | 14.4 | 0.71 | 373 | 0.56 | 1.94 | 5.0 | 30.4 | 558 | |
| F23 (8893878) | 16.1 | <0.05 | 3.1 | 0.030 | 1.55 | 11.5 | 15.2 | 0.61 | 294 | 0.63 | 2.08 | 6.5 | 26.7 | 250 | |
| F24 (8893879) | 15.4 | <0.05 | 2.8 | 0.034 | 1.35 | 11.0 | 18.4 | 0.53 | 346 | 0.81 | 1.63 | 7.3 | 26.6 | 266 | |
| F25 (8893880) | 16.9 | <0.05 | 3.0 | 0.033 | 1.37 | 12.1 | 22.2 | 0.57 | 301 | 0.73 | 1.71 | 7.4 | 27.0 | 366 | |
| F26 (8893881) | 19.2 | <0.05 | 3.7 | 0.036 | 1.83 | 19.3 | 20.8 | 0.89 | 367 | 0.77 | 2.37 | 8.4 | 42.5 | 277 | |
| F27 (8893882) | 14.5 | <0.05 | 2.7 | 0.028 | 1.48 | 10.3 | 14.7 | 0.68 | 313 | 0.56 | 2.12 | 5.5 | 29.4 | 263 | |
| F28 (8893883) | 14.7 | <0.05 | 3.2 | 0.034 | 1.36 | 11.2 | 18.4 | 0.65 | 322 | 0.79 | 1.74 | 6.6 | 31.0 | 387 | |
| F29 (8893884) | 15.1 | <0.05 | 2.7 | 0.026 | 1.42 | 10.3 | 14.9 | 0.53 | 262 | 0.70 | 1.90 | 6.3 | 23.6 | 350 | |
| F30 (8893885) | 15.7 | <0.05 | 2.5 | 0.048 | 1.29 | 11.5 | 24.5 | 0.74 | 397 | 1.24 | 1.49 | 6.6 | 32.7 | 1100 | |
| F31 (8893886) | 14.8 | <0.05 | 2.9 | 0.026 | 1.51 | 17.6 | 13.2 | 0.71 | 332 | 0.55 | 2.03 | 6.5 | 29.4 | 544 | |
| F32 (8893887) | 13.8 | <0.05 | 2.7 | 0.027 | 1.54 | 11.4 | 12.7 | 0.56 | 270 | 0.57 | 1.89 | 6.4 | 24.6 | 340 | |
| F33 (8893888) | 14.8 | <0.05 | 2.3 | 0.023 | 1.14 | 10.0 | 12.7 | 0.51 | 281 | 0.40 | 2.03 | 5.2 | 22.7 | 329 | |
| F34 (8893889) | 15.3 | <0.05 | 2.5 | 0.034 | 1.34 | 11.5 | 19.4 | 0.60 | 327 | 0.59 | 1.75 | 7.2 | 29.0 | 669 | |
| F35 (8893890) | 15.4 | <0.05 | 4.1 | 0.026 | 1.48 | 10.9 | 12.9 | 0.62 | 351 | 0.41 | 2.14 | 18.3 | 23.2 | 571 | |

Certified By:

Certificate of Analysis

AGAT WORK ORDER: 17T282583

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
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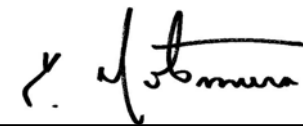
CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 08, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|-------|-----|-------|------|-----------------------------|------|------|-----|------|--------------------|------|------|------|--|
| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P | |
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm | |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 | |
| F36 (8893891) | 14.6 | <0.05 | 2.2 | 0.027 | 1.54 | 13.5 | 17.4 | 0.72 | 330 | 0.47 | 1.85 | 5.3 | 33.9 | 538 | |
| F37 (8893892) | 17.1 | <0.05 | 2.3 | 0.033 | 1.49 | 11.6 | 22.8 | 0.65 | 317 | 0.71 | 1.61 | 6.8 | 34.8 | 608 | |
| F38 (8893893) | 14.1 | <0.05 | 3.1 | 0.025 | 1.55 | 20.2 | 14.4 | 0.73 | 357 | 1.45 | 1.96 | 5.6 | 36.2 | 455 | |
| F39 (8893894) | 14.8 | <0.05 | 2.6 | 0.030 | 1.55 | 10.2 | 17.7 | 0.71 | 332 | 0.51 | 1.84 | 5.9 | 33.9 | 524 | |
| F40 (8893895) | 13.9 | <0.05 | 2.8 | 0.025 | 1.45 | 11.8 | 13.5 | 0.64 | 349 | 0.49 | 1.88 | 5.3 | 27.6 | 517 | |
| F41 (8893896) | 12.8 | <0.05 | 0.6 | 0.029 | 1.12 | 10.9 | 18.1 | 0.57 | 244 | 0.62 | 1.17 | 2.3 | 31.0 | 813 | |
| F42 (8893897) | 16.3 | <0.05 | 2.8 | 0.036 | 1.46 | 14.4 | 24.0 | 0.73 | 352 | 0.80 | 1.63 | 7.2 | 43.6 | 892 | |
| F43 (8893898) | 15.5 | <0.05 | 2.6 | 0.042 | 1.28 | 13.9 | 23.7 | 0.69 | 382 | 0.97 | 1.46 | 7.2 | 33.1 | 2070 | |
| F44 (8893899) | 15.3 | <0.05 | 2.9 | 0.035 | 1.68 | 14.7 | 17.3 | 0.67 | 425 | 0.71 | 1.83 | 6.7 | 32.5 | 1480 | |
| F45 (8893900) | 15.0 | <0.05 | 2.0 | 0.030 | 1.33 | 11.9 | 18.0 | 0.63 | 371 | 0.72 | 1.75 | 5.8 | 27.1 | 965 | |
| F46 (8893901) | 17.3 | <0.05 | 2.5 | 0.036 | 1.64 | 13.0 | 24.6 | 0.76 | 471 | 0.66 | 1.77 | 7.9 | 34.1 | 2000 | |
| G1 (8893902) | 14.0 | <0.05 | 1.6 | 0.023 | 1.51 | 13.2 | 12.5 | 0.80 | 397 | 0.25 | 2.15 | 3.9 | 28.7 | 390 | |
| G2 (8893903) | 16.4 | <0.05 | 2.3 | 0.028 | 1.49 | 12.8 | 14.5 | 0.66 | 390 | 0.35 | 2.01 | 5.8 | 27.1 | 608 | |
| G3 (8893904) | 13.8 | <0.05 | 1.5 | 0.020 | 1.47 | 9.0 | 15.3 | 0.68 | 352 | 0.28 | 2.13 | 4.2 | 32.6 | 666 | |
| G4 (8893905) | 14.0 | <0.05 | 1.7 | 0.021 | 1.44 | 11.2 | 12.6 | 0.66 | 343 | 0.31 | 2.19 | 4.1 | 26.7 | 521 | |
| G5 (8893906) | 14.5 | <0.05 | 2.3 | 0.026 | 1.50 | 12.5 | 14.1 | 0.67 | 378 | 0.34 | 2.11 | 5.4 | 26.9 | 633 | |
| G6 (8893907) | 17.5 | <0.05 | 2.4 | 0.025 | 1.50 | 8.8 | 14.8 | 0.65 | 382 | 0.36 | 2.08 | 19.4 | 23.5 | 1210 | |
| G7 (8893908) | 14.3 | <0.05 | 2.1 | 0.023 | 1.52 | 12.3 | 14.8 | 0.57 | 286 | 0.37 | 2.00 | 4.7 | 27.8 | 732 | |
| G8 (8893909) | 14.7 | <0.05 | 2.2 | 0.027 | 1.56 | 11.2 | 16.3 | 0.55 | 296 | 0.46 | 1.94 | 4.9 | 25.3 | 422 | |
| G9 (8893910) | 13.8 | <0.05 | 1.6 | 0.023 | 1.47 | 10.0 | 14.6 | 0.62 | 300 | 0.35 | 2.02 | 4.7 | 29.1 | 468 | |
| G10 (8893911) | 16.1 | <0.05 | 2.3 | 0.028 | 1.34 | 12.0 | 15.3 | 0.71 | 473 | 0.46 | 1.93 | 5.6 | 28.0 | 1150 | |
| G11 (8893912) | 15.4 | <0.05 | 1.9 | 0.025 | 1.47 | 18.8 | 14.9 | 0.64 | 372 | 0.41 | 2.10 | 4.4 | 29.8 | 732 | |
| G12 (8893913) | 14.2 | <0.05 | 2.0 | 0.022 | 1.57 | 14.3 | 11.3 | 0.64 | 505 | 0.28 | 2.19 | 4.6 | 22.1 | 235 | |
| G13 (8893914) | 15.8 | <0.05 | 2.1 | 0.023 | 1.51 | 12.0 | 12.7 | 0.47 | 277 | 0.57 | 2.20 | 5.2 | 15.8 | 204 | |
| G14 (8893915) | 13.7 | <0.05 | 1.5 | 0.021 | 1.51 | 8.7 | 11.5 | 0.58 | 291 | 0.34 | 2.14 | 3.6 | 25.2 | 411 | |
| G15 (8893916) | 14.9 | <0.05 | 2.5 | 0.030 | 1.49 | 23.5 | 22.2 | 0.69 | 427 | 0.56 | 1.92 | 7.1 | 34.5 | 373 | |
| G16 (8893917) | 14.5 | <0.05 | 2.1 | 0.025 | 1.60 | 9.4 | 12.8 | 0.67 | 329 | 0.40 | 2.13 | 4.5 | 30.1 | 359 | |
| G17 (8893918) | 15.3 | <0.05 | 2.6 | 0.027 | 1.53 | 9.7 | 20.7 | 0.59 | 275 | 0.62 | 1.88 | 6.2 | 31.4 | 282 | |
| G18 (8893919) | 17.3 | <0.05 | 2.8 | 0.030 | 1.56 | 10.3 | 18.7 | 0.75 | 351 | 0.51 | 2.00 | 7.4 | 31.2 | 239 | |
| G19 (8893920) | 14.2 | <0.05 | 2.2 | 0.026 | 1.46 | 11.4 | 14.5 | 0.72 | 344 | 0.44 | 1.91 | 4.3 | 30.5 | 346 | |
| G20 (8893921) | 16.1 | <0.05 | 3.0 | 0.030 | 1.52 | 13.3 | 17.4 | 0.64 | 329 | 0.64 | 1.85 | 7.3 | 27.2 | 349 | |
| G21 (8893922) | 19.0 | <0.05 | 2.2 | 0.022 | 1.38 | 15.7 | 12.5 | 0.47 | 273 | 0.94 | 2.09 | 5.6 | 15.8 | 209 | |

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 17T282583

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 08, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|-------|-----|-------|------|-----------------------------|------|------|-----|------|--------------------|-----|------|-----|--|
| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P | |
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm | |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 | |
| G22 (8893923) | 14.8 | <0.05 | 2.2 | 0.029 | 1.40 | 18.3 | 14.8 | 0.59 | 314 | 0.66 | 1.92 | 6.1 | 34.3 | 377 | |
| G23 (8893924) | 13.9 | <0.05 | 1.9 | 0.023 | 1.42 | 10.5 | 11.4 | 0.66 | 322 | 0.36 | 2.17 | 4.7 | 24.3 | 349 | |
| G24 (8893925) | 18.0 | <0.05 | 2.8 | 0.038 | 1.12 | 9.9 | 21.5 | 0.45 | 259 | 1.16 | 1.37 | 6.9 | 18.4 | 413 | |
| G25 (8893926) | 15.5 | <0.05 | 2.5 | 0.021 | 1.55 | 12.9 | 11.5 | 0.66 | 283 | 0.31 | 2.27 | 4.6 | 24.0 | 149 | |
| G26 (8893927) | 14.8 | <0.05 | 2.2 | 0.025 | 1.46 | 12.1 | 11.3 | 0.65 | 305 | 0.43 | 2.11 | 4.6 | 26.4 | 379 | |
| G27 (8893928) | 14.5 | <0.05 | 1.9 | 0.026 | 1.49 | 10.2 | 13.2 | 0.58 | 295 | 0.41 | 2.18 | 4.1 | 24.9 | 467 | |
| G28 (8893929) | 16.0 | <0.05 | 1.9 | 0.025 | 1.51 | 8.7 | 14.0 | 0.64 | 355 | 0.49 | 2.14 | 5.2 | 27.4 | 652 | |
| G29 (8893930) | 15.3 | <0.05 | 3.0 | 0.031 | 1.50 | 13.6 | 17.8 | 0.77 | 380 | 0.51 | 1.87 | 6.8 | 36.6 | 525 | |

Certified By:

Certificate of Analysis

AGAT WORK ORDER: 17T282583

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
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<http://www.agatlabs.com>

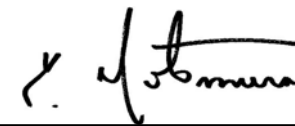
CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 08, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|------|--------|------|------|-----------------------------|------|-----|-----|------|--------------------|------|------|------|--|
| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl | |
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | |
| RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | 0.01 | |
| F4 (8893859) | 11.6 | 60.6 | <0.002 | 0.03 | 0.11 | 8.2 | 0.5 | 1.2 | 374 | 0.39 | 0.02 | 2.4 | 0.28 | 0.26 | |
| F5 (8893860) | 13.3 | 63.3 | <0.002 | 0.03 | 0.15 | 9.6 | 0.8 | 1.1 | 285 | 0.46 | 0.04 | 5.6 | 0.31 | 0.35 | |
| F6 (8893861) | 10.1 | 45.2 | <0.002 | 0.03 | 0.11 | 8.9 | 0.6 | 0.9 | 279 | 0.30 | 0.07 | 2.0 | 0.25 | 0.22 | |
| F7 (8893862) | 11.6 | 53.0 | <0.002 | 0.03 | 0.13 | 7.2 | 0.6 | 1.0 | 280 | 0.37 | <0.01 | 2.3 | 0.24 | 0.25 | |
| F8 (8893863) | 11.8 | 54.0 | <0.002 | 0.03 | 0.18 | 6.9 | 0.8 | 1.3 | 273 | 0.32 | 0.02 | 3.2 | 0.22 | 0.28 | |
| F9 (8893864) | 11.5 | 52.4 | <0.002 | 0.04 | 0.14 | 9.4 | 0.8 | 1.1 | 259 | 0.42 | 0.01 | 3.6 | 0.32 | 0.26 | |
| F10 (8893865) | 14.9 | 63.7 | <0.002 | 0.04 | 0.21 | 11.3 | 0.7 | 1.5 | 336 | 0.56 | 0.02 | 13.7 | 0.38 | 0.30 | |
| F11 (8893866) | 11.8 | 49.5 | <0.002 | 0.05 | 0.20 | 9.6 | 1.0 | 1.4 | 240 | 0.47 | 0.04 | 6.9 | 0.31 | 0.26 | |
| F12 (8893867) | 12.0 | 46.0 | <0.002 | 0.04 | 0.28 | 9.2 | 1.1 | 1.3 | 232 | 0.54 | 0.06 | 4.0 | 0.33 | 0.26 | |
| F13 (8893868) | 11.1 | 49.0 | <0.002 | 0.05 | 0.28 | 9.2 | 0.8 | 1.5 | 248 | 0.57 | 0.07 | 5.5 | 0.30 | 0.27 | |
| F14 (8893869) | 11.0 | 46.3 | <0.002 | 0.04 | 0.14 | 8.1 | 0.9 | 1.1 | 245 | 0.44 | 0.01 | 12.2 | 0.30 | 0.24 | |
| F15 (8893870) | 10.9 | 47.1 | <0.002 | 0.04 | 0.14 | 8.3 | 0.8 | 1.0 | 248 | 0.42 | 0.01 | 2.7 | 0.26 | 0.24 | |
| F16 (8893871) | 11.5 | 48.6 | <0.002 | 0.03 | 0.15 | 8.1 | 0.7 | 1.0 | 273 | 0.36 | <0.01 | 9.5 | 0.25 | 0.24 | |
| F17 (8893872) | 12.1 | 45.0 | <0.002 | 0.04 | 0.11 | 9.5 | 0.9 | 1.2 | 275 | 0.47 | 0.02 | 6.3 | 0.35 | 0.22 | |
| F18 (8893873) | 11.2 | 49.3 | <0.002 | 0.03 | 0.14 | 7.1 | 0.6 | 1.3 | 281 | 0.32 | 0.03 | 3.0 | 0.22 | 0.26 | |
| F19 (8893874) | 10.4 | 39.3 | <0.002 | 0.04 | 0.18 | 7.7 | 0.8 | 1.2 | 227 | 0.37 | 0.04 | 3.2 | 0.28 | 0.21 | |
| F20 (8893875) | 12.7 | 57.0 | <0.002 | 0.04 | 0.16 | 9.0 | 0.9 | 1.6 | 317 | 0.45 | 0.02 | 4.2 | 0.29 | 0.37 | |
| F21 (8893876) | 10.8 | 47.3 | <0.002 | 0.03 | 0.10 | 7.3 | <0.5 | 0.9 | 292 | 0.33 | <0.01 | 1.8 | 0.23 | 0.24 | |
| F22 (8893877) | 11.2 | 40.8 | <0.002 | 0.05 | 0.18 | 8.8 | 0.9 | 1.8 | 259 | 0.37 | 0.03 | 3.4 | 0.28 | 0.22 | |
| F23 (8893878) | 12.0 | 47.3 | <0.002 | 0.04 | 0.18 | 8.5 | 0.9 | 1.2 | 264 | 0.43 | 0.03 | 3.3 | 0.30 | 0.28 | |
| F24 (8893879) | 13.5 | 41.7 | <0.002 | 0.04 | 0.32 | 7.3 | 0.8 | 9.2 | 206 | 0.48 | 0.20 | 3.3 | 0.30 | 0.26 | |
| F25 (8893880) | 12.3 | 46.8 | <0.002 | 0.05 | 0.22 | 9.1 | 0.8 | 1.9 | 206 | 0.57 | 0.02 | 4.8 | 0.34 | 0.26 | |
| F26 (8893881) | 15.4 | 55.5 | <0.002 | 0.04 | 0.26 | 9.8 | 0.9 | 3.9 | 304 | 0.62 | 0.02 | 8.2 | 0.35 | 0.35 | |
| F27 (8893882) | 12.0 | 46.2 | <0.002 | 0.05 | 0.18 | 8.2 | 0.6 | 1.1 | 269 | 0.42 | 0.02 | 3.5 | 0.26 | 0.25 | |
| F28 (8893883) | 12.8 | 45.9 | <0.002 | 0.04 | 0.26 | 8.9 | 0.8 | 1.4 | 209 | 0.51 | <0.01 | 4.1 | 0.31 | 0.27 | |
| F29 (8893884) | 11.7 | 42.0 | <0.002 | 0.04 | 0.19 | 7.2 | 0.9 | 1.1 | 253 | 0.41 | 0.01 | 3.3 | 0.26 | 0.27 | |
| F30 (8893885) | 12.1 | 41.6 | <0.002 | 0.07 | 0.41 | 10.7 | 1.3 | 1.3 | 161 | 0.54 | 0.04 | 4.4 | 0.33 | 0.26 | |
| F31 (8893886) | 11.7 | 47.5 | <0.002 | 0.04 | 0.15 | 9.2 | 0.6 | 1.0 | 260 | 0.47 | <0.01 | 5.0 | 0.27 | 0.25 | |
| F32 (8893887) | 11.6 | 45.0 | 0.002 | 0.04 | 0.16 | 7.7 | 0.8 | 1.3 | 245 | 0.47 | 0.02 | 3.8 | 0.26 | 0.24 | |
| F33 (8893888) | 11.3 | 26.5 | <0.002 | 0.03 | 0.15 | 7.2 | 0.7 | 1.2 | 270 | 0.41 | 0.03 | 4.1 | 0.24 | 0.26 | |
| F34 (8893889) | 10.4 | 42.4 | <0.002 | 0.04 | 0.17 | 8.4 | 0.9 | 1.2 | 222 | 0.62 | 0.04 | 3.9 | 0.31 | 0.24 | |
| F35 (8893890) | 11.9 | 46.9 | <0.002 | 0.04 | 0.23 | 8.4 | 0.8 | 1.3 | 284 | 0.73 | 0.04 | 4.6 | 0.30 | 0.28 | |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282583

PROJECT:

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 08, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|------|--------|------|------|-----------------------------|------|------|-----|-------|--------------------|-----|------|------|--|
| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl | |
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | |
| RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | 0.01 | |
| F36 (8893891) | 11.4 | 49.3 | <0.002 | 0.04 | 0.18 | 8.1 | 0.9 | 1.1 | 247 | 0.31 | 0.05 | 5.7 | 0.24 | 0.28 | |
| F37 (8893892) | 11.8 | 48.9 | <0.002 | 0.04 | 0.17 | 8.4 | 0.9 | 1.4 | 211 | 0.39 | 0.01 | 3.9 | 0.31 | 0.27 | |
| F38 (8893893) | 11.6 | 45.4 | <0.002 | 0.04 | 0.13 | 8.3 | 0.7 | 30.9 | 259 | 0.40 | 0.02 | 9.2 | 0.29 | 0.25 | |
| F39 (8893894) | 10.8 | 45.7 | <0.002 | 0.03 | 0.16 | 9.0 | 0.8 | 1.0 | 245 | 0.32 | 0.01 | 3.6 | 0.29 | 0.26 | |
| F40 (8893895) | 11.1 | 46.6 | <0.002 | 0.03 | 0.14 | 8.6 | 0.9 | 1.3 | 251 | 0.30 | 0.01 | 4.3 | 0.28 | 0.25 | |
| F41 (8893896) | 9.5 | 35.8 | <0.002 | 0.04 | 0.16 | 7.7 | 0.8 | 0.9 | 157 | <0.05 | 0.01 | 3.2 | 0.18 | 0.21 | |
| F42 (8893897) | 13.2 | 44.3 | <0.002 | 0.06 | 0.36 | 9.1 | 0.9 | 2.6 | 210 | 0.43 | 0.03 | 4.7 | 0.34 | 0.26 | |
| F43 (8893898) | 13.1 | 40.6 | <0.002 | 0.07 | 0.35 | 9.1 | 1.4 | 1.6 | 192 | 0.52 | 0.04 | 4.8 | 0.38 | 0.23 | |
| F44 (8893899) | 14.9 | 50.1 | <0.002 | 0.04 | 0.31 | 8.3 | 0.7 | 2.6 | 237 | 0.38 | 0.03 | 5.4 | 0.30 | 0.28 | |
| F45 (8893900) | 12.6 | 42.2 | <0.002 | 0.03 | 0.22 | 7.7 | 0.6 | 1.1 | 233 | 0.33 | 0.03 | 4.0 | 0.30 | 0.23 | |
| F46 (8893901) | 13.6 | 50.7 | <0.002 | 0.04 | 0.34 | 8.5 | 0.9 | 1.6 | 229 | 0.42 | 0.08 | 3.9 | 0.32 | 0.27 | |
| G1 (8893902) | 10.9 | 46.3 | <0.002 | 0.03 | 0.10 | 8.6 | <0.5 | 1.0 | 289 | 0.21 | <0.01 | 5.8 | 0.24 | 0.25 | |
| G2 (8893903) | 11.8 | 49.3 | <0.002 | 0.03 | 0.37 | 8.1 | 0.5 | 1.1 | 269 | 0.33 | 0.03 | 5.3 | 0.30 | 0.26 | |
| G3 (8893904) | 11.8 | 44.3 | <0.002 | 0.03 | 0.17 | 7.5 | 0.5 | 9.3 | 278 | 0.26 | 0.01 | 3.7 | 0.22 | 0.24 | |
| G4 (8893905) | 11.0 | 46.0 | <0.002 | 0.03 | 0.12 | 7.7 | 0.6 | 1.1 | 286 | 0.25 | <0.01 | 3.6 | 0.23 | 0.26 | |
| G5 (8893906) | 11.4 | 46.1 | <0.002 | 0.03 | 0.10 | 8.5 | 0.6 | 1.0 | 276 | 0.32 | <0.01 | 4.8 | 0.27 | 0.26 | |
| G6 (8893907) | 13.0 | 48.6 | <0.002 | 0.04 | 0.14 | 8.7 | 0.6 | 1.0 | 265 | 2.76 | 0.02 | 2.8 | 0.31 | 0.26 | |
| G7 (8893908) | 11.6 | 46.1 | <0.002 | 0.04 | 0.15 | 7.2 | 0.7 | 0.9 | 266 | 0.26 | <0.01 | 4.3 | 0.21 | 0.26 | |
| G8 (8893909) | 12.2 | 44.9 | <0.002 | 0.03 | 0.37 | 7.2 | 0.9 | 1.0 | 251 | 0.31 | 0.03 | 5.6 | 0.24 | 0.28 | |
| G9 (8893910) | 10.9 | 50.0 | <0.002 | 0.04 | 0.18 | 7.4 | 0.8 | 0.8 | 260 | 0.28 | 0.01 | 3.9 | 0.21 | 0.25 | |
| G10 (8893911) | 10.8 | 47.5 | <0.002 | 0.04 | 0.14 | 8.9 | 0.9 | 1.1 | 258 | 0.32 | <0.01 | 4.6 | 0.30 | 0.24 | |
| G11 (8893912) | 11.9 | 49.9 | <0.002 | 0.04 | 0.15 | 7.8 | 0.9 | 0.9 | 266 | 0.25 | 0.02 | 9.6 | 0.23 | 0.25 | |
| G12 (8893913) | 10.5 | 52.0 | <0.002 | 0.03 | 0.10 | 7.4 | 0.5 | 0.9 | 291 | 0.23 | <0.01 | 5.5 | 0.23 | 0.26 | |
| G13 (8893914) | 10.9 | 53.7 | <0.002 | 0.03 | 0.13 | 7.2 | <0.5 | 1.0 | 278 | 0.27 | <0.01 | 3.4 | 0.28 | 0.26 | |
| G14 (8893915) | 10.7 | 49.9 | <0.002 | 0.03 | 0.10 | 6.9 | 0.7 | 0.7 | 273 | 0.19 | <0.01 | 2.4 | 0.19 | 0.25 | |
| G15 (8893916) | 13.3 | 49.0 | <0.002 | 0.04 | 0.18 | 9.6 | 1.0 | 4.2 | 255 | 0.30 | 0.02 | 7.4 | 0.27 | 0.28 | |
| G16 (8893917) | 11.8 | 50.5 | <0.002 | 0.03 | 0.14 | 8.0 | 0.8 | 1.0 | 278 | 0.26 | <0.01 | 3.2 | 0.23 | 0.26 | |
| G17 (8893918) | 11.2 | 49.0 | <0.002 | 0.03 | 0.13 | 7.9 | 0.5 | 1.1 | 240 | 0.32 | 0.02 | 3.2 | 0.28 | 0.25 | |
| G18 (8893919) | 12.5 | 54.4 | <0.002 | 0.04 | 0.16 | 9.6 | 0.6 | 1.2 | 248 | 0.35 | 0.01 | 3.9 | 0.31 | 0.29 | |
| G19 (8893920) | 12.6 | 48.5 | <0.002 | 0.03 | 0.18 | 8.6 | 0.8 | 0.9 | 231 | 0.26 | 0.03 | 4.3 | 0.25 | 0.27 | |
| G20 (8893921) | 11.3 | 51.0 | <0.002 | 0.03 | 0.18 | 8.8 | 0.9 | 1.3 | 242 | 0.42 | 0.03 | 4.8 | 0.32 | 0.28 | |
| G21 (8893922) | 11.6 | 46.8 | <0.002 | 0.04 | 0.15 | 7.5 | 0.9 | 1.2 | 262 | 0.32 | 0.03 | 3.8 | 0.30 | 0.29 | |

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 17T282583

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 08, 2018

SAMPLE TYPE: Other

| Sample ID (AGAT ID) | Analyte: Unit: RDL: | Pb ppm 0.1 | Rb ppm 0.1 | Re ppm 0.002 | S % 0.01 | Sb ppm 0.05 | Sc ppm 0.1 | Se ppm 0.5 | Sn ppm 0.2 | Sr ppm 0.2 | Ta ppm 0.05 | Te ppm 0.01 | Th ppm 0.1 | Ti % 0.01 | Tl ppm 0.01 |
|---------------------|---------------------------|------------------|------------------|--------------------|----------------|-------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|------------------|-----------------|-------------------|
| G22 (8893923) | | 10.4 | 48.5 | <0.002 | 0.04 | 0.15 | 9.0 | 1.0 | 1.1 | 253 | 0.33 | 0.01 | 4.2 | 0.24 | 0.28 |
| G23 (8893924) | | 11.0 | 47.2 | <0.002 | 0.04 | 0.11 | 8.0 | 0.9 | 1.1 | 287 | 0.28 | <0.01 | 3.6 | 0.24 | 0.25 |
| G24 (8893925) | | 12.8 | 39.9 | <0.002 | 0.05 | 0.27 | 7.8 | 1.0 | 1.4 | 165 | 0.41 | 0.04 | 4.0 | 0.34 | 0.26 |
| G25 (8893926) | | 11.7 | 53.1 | <0.002 | 0.03 | 0.11 | 7.6 | 0.9 | 1.0 | 292 | 0.25 | <0.01 | 3.4 | 0.23 | 0.30 |
| G26 (8893927) | | 11.4 | 50.6 | <0.002 | 0.03 | 0.11 | 8.0 | 0.7 | 1.0 | 276 | 0.24 | 0.01 | 4.3 | 0.23 | 0.25 |
| G27 (8893928) | | 10.7 | 49.0 | <0.002 | 0.04 | 0.13 | 7.2 | 0.6 | 1.0 | 284 | 0.22 | 0.01 | 3.1 | 0.21 | 0.24 |
| G28 (8893929) | | 10.8 | 51.4 | <0.002 | 0.03 | 0.16 | 8.0 | 0.7 | 1.1 | 283 | 0.30 | 0.01 | 2.1 | 0.27 | 0.26 |
| G29 (8893930) | | 13.0 | 53.5 | <0.002 | 0.04 | 0.18 | 9.7 | 1.1 | 1.1 | 224 | 0.37 | 0.03 | 5.5 | 0.30 | 0.26 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282583

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 08, 2018

SAMPLE TYPE: Other

| Analyte: | U | V | W | Y | Zn | Zr |
|---------------------|-------|------|-----|------|------|------|
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm |
| RDL: | 0.005 | 0.5 | 0.1 | 0.1 | 0.5 | 0.5 |
| Sample ID (AGAT ID) | | | | | | |
| F4 (8893859) | 0.609 | 55.8 | 0.3 | 9.5 | 35.1 | 82.5 |
| F5 (8893860) | 0.811 | 64.4 | 0.3 | 11.5 | 37.7 | 110 |
| F6 (8893861) | 0.561 | 59.9 | 0.2 | 10.6 | 27.1 | 89.0 |
| F7 (8893862) | 0.627 | 57.7 | 0.3 | 8.5 | 24.9 | 97.0 |
| F8 (8893863) | 0.599 | 54.0 | 0.3 | 7.2 | 40.6 | 65.9 |
| F9 (8893864) | 0.757 | 75.1 | 0.3 | 9.4 | 44.7 | 97.7 |
| F10 (8893865) | 1.15 | 90.9 | 0.4 | 13.2 | 63.2 | 110 |
| F11 (8893866) | 0.813 | 76.1 | 0.4 | 9.5 | 65.5 | 106 |
| F12 (8893867) | 0.905 | 86.4 | 0.5 | 9.0 | 85.2 | 136 |
| F13 (8893868) | 1.07 | 74.5 | 0.5 | 9.2 | 54.6 | 125 |
| F14 (8893869) | 1.06 | 70.8 | 0.5 | 8.8 | 53.5 | 89.2 |
| F15 (8893870) | 0.772 | 66.3 | 0.3 | 8.1 | 40.2 | 107 |
| F16 (8893871) | 1.15 | 68.2 | 0.3 | 10.1 | 27.9 | 98.3 |
| F17 (8893872) | 0.990 | 85.7 | 0.3 | 11.7 | 34.4 | 198 |
| F18 (8893873) | 0.614 | 51.2 | 0.4 | 7.3 | 29.6 | 99.5 |
| F19 (8893874) | 0.807 | 63.3 | 0.5 | 7.8 | 35.8 | 126 |
| F20 (8893875) | 0.950 | 63.2 | 0.6 | 10.9 | 36.0 | 111 |
| F21 (8893876) | 0.534 | 56.4 | 0.2 | 7.8 | 31.6 | 75.8 |
| F22 (8893877) | 0.744 | 72.5 | 0.4 | 8.6 | 35.1 | 88.2 |
| F23 (8893878) | 0.963 | 67.1 | 0.4 | 9.9 | 30.6 | 140 |
| F24 (8893879) | 0.949 | 67.8 | 5.3 | 8.3 | 55.8 | 128 |
| F25 (8893880) | 1.06 | 83.2 | 0.5 | 9.6 | 58.6 | 132 |
| F26 (8893881) | 1.22 | 77.7 | 0.7 | 11.5 | 52.1 | 158 |
| F27 (8893882) | 0.800 | 61.6 | 0.4 | 8.9 | 29.3 | 113 |
| F28 (8893883) | 1.09 | 71.8 | 0.6 | 8.9 | 43.4 | 128 |
| F29 (8893884) | 19.3 | 55.6 | 0.6 | 7.3 | 76.9 | 115 |
| F30 (8893885) | 1.35 | 95.7 | 0.6 | 10.1 | 49.4 | 105 |
| F31 (8893886) | 1.03 | 62.1 | 0.4 | 12.9 | 36.8 | 136 |
| F32 (8893887) | 0.828 | 53.7 | 0.4 | 8.1 | 51.2 | 109 |
| F33 (8893888) | 0.708 | 55.3 | 0.3 | 7.2 | 27.3 | 97.9 |
| F34 (8893889) | 0.960 | 69.3 | 0.5 | 8.2 | 46.7 | 102 |
| F35 (8893890) | 0.937 | 66.9 | 0.5 | 9.7 | 38.9 | 158 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282583

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 08, 2018

SAMPLE TYPE: Other

| Analyte: | U | V | W | Y | Zn | Zr |
|---------------------|-------|------|------|------|------|------|
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm |
| Sample ID (AGAT ID) | RDL: | | | | | |
| F36 (8893891) | 0.829 | 58.1 | 0.4 | 7.4 | 43.6 | 78.7 |
| F37 (8893892) | 0.852 | 73.9 | 0.4 | 8.2 | 58.2 | 96.6 |
| F38 (8893893) | 0.962 | 68.4 | 0.3 | 8.8 | 36.7 | 131 |
| F39 (8893894) | 0.866 | 70.2 | 0.3 | 8.2 | 41.8 | 107 |
| F40 (8893895) | 0.789 | 68.5 | 0.3 | 8.2 | 36.6 | 124 |
| F41 (8893896) | 0.643 | 62.6 | <0.1 | 6.9 | 57.6 | 26.7 |
| F42 (8893897) | 0.970 | 84.8 | 0.7 | 9.1 | 108 | 108 |
| F43 (8893898) | 1.04 | 88.4 | 0.6 | 8.5 | 83.8 | 102 |
| F44 (8893899) | 0.886 | 64.1 | 0.3 | 8.4 | 91.7 | 123 |
| F45 (8893900) | 0.734 | 81.5 | 0.4 | 7.5 | 70.5 | 82.8 |
| F46 (8893901) | 0.895 | 73.4 | 0.4 | 7.5 | 147 | 98.5 |
| G1 (8893902) | 0.632 | 69.8 | 0.1 | 7.9 | 28.7 | 61.2 |
| G2 (8893903) | 0.759 | 74.6 | 0.3 | 8.1 | 47.5 | 95.5 |
| G3 (8893904) | 0.644 | 58.8 | 0.2 | 7.0 | 53.2 | 61.9 |
| G4 (8893905) | 0.579 | 60.2 | 0.2 | 8.1 | 27.2 | 67.3 |
| G5 (8893906) | 0.898 | 68.7 | 0.2 | 9.2 | 35.9 | 87.2 |
| G6 (8893907) | 0.681 | 78.9 | 0.3 | 8.7 | 39.3 | 94.1 |
| G7 (8893908) | 0.672 | 54.2 | 0.3 | 6.9 | 44.1 | 79.4 |
| G8 (8893909) | 0.877 | 58.9 | 0.5 | 7.1 | 36.4 | 80.2 |
| G9 (8893910) | 0.624 | 52.5 | 0.2 | 7.0 | 34.1 | 63.7 |
| G10 (8893911) | 0.713 | 79.0 | 0.3 | 9.6 | 40.7 | 97.2 |
| G11 (8893912) | 0.752 | 58.6 | 0.2 | 8.9 | 63.1 | 85.8 |
| G12 (8893913) | 0.658 | 51.8 | 0.2 | 8.9 | 31.9 | 84.2 |
| G13 (8893914) | 0.727 | 59.3 | 0.2 | 7.5 | 31.0 | 95.8 |
| G14 (8893915) | 0.519 | 49.1 | 0.2 | 7.2 | 22.2 | 63.4 |
| G15 (8893916) | 1.70 | 69.2 | 0.3 | 15.7 | 32.2 | 111 |
| G16 (8893917) | 0.696 | 58.6 | 0.2 | 8.6 | 28.0 | 91.3 |
| G17 (8893918) | 0.743 | 68.3 | 0.3 | 7.7 | 39.8 | 113 |
| G18 (8893919) | 0.917 | 89.2 | 0.3 | 9.1 | 39.5 | 123 |
| G19 (8893920) | 0.945 | 69.0 | 0.3 | 9.7 | 28.2 | 89.7 |
| G20 (8893921) | 0.961 | 68.5 | 0.4 | 9.7 | 59.3 | 132 |
| G21 (8893922) | 0.926 | 84.2 | 0.3 | 10.0 | 21.7 | 97.3 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282583

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | DATE REPORTED: Jan 08, 2018 | | SAMPLE TYPE: Other |
|----------------------------|-----------------------------|------|-----|------|-----------------------------|------|--------------------|
| Analyte: | U | V | W | Y | Zn | Zr | |
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm | |
| Sample ID (AGAT ID) | RDL: | | | | | | |
| G22 (8893923) | 1.06 | 61.6 | 0.4 | 12.1 | 32.6 | 92.2 | |
| G23 (8893924) | 0.677 | 58.3 | 0.2 | 8.9 | 23.3 | 77.1 | |
| G24 (8893925) | 1.19 | 97.0 | 0.5 | 7.8 | 41.3 | 120 | |
| G25 (8893926) | 0.672 | 50.8 | 0.2 | 9.2 | 23.0 | 112 | |
| G26 (8893927) | 0.860 | 58.5 | 0.2 | 10.2 | 23.1 | 100 | |
| G27 (8893928) | 0.609 | 53.8 | 0.3 | 8.4 | 27.8 | 82.0 | |
| G28 (8893929) | 0.617 | 65.1 | 0.2 | 8.8 | 40.6 | 81.5 | |
| G29 (8893930) | 1.16 | 75.6 | 0.4 | 10.9 | 36.0 | 137 | |

Comments: RDL - Reported Detection Limit
 8893859-8893930 As, Sb values may be low due to digestion losses.

Certified By:



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| Parameter | REPLICATE #1 | | | | REPLICATE #2 | | | | REPLICATE #3 | | | | REPLICATE #4 | | | |
|-----------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|
| | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD |
| Ag | 8893859 | 0.17 | 0.12 | | 8893878 | 0.252 | 0.298 | 16.7% | 8893898 | 0.301 | 0.361 | 18.1% | 8893919 | 0.13 | 0.23 | |
| Al | 8893859 | 6.20 | 6.17 | 0.5% | 8893878 | 6.48 | 6.13 | 5.6% | 8893898 | 7.40 | 7.27 | 1.8% | 8893919 | 6.38 | 6.29 | 1.4% |
| As | 8893859 | 1.7 | 1.2 | | 8893878 | 3.22 | 3.98 | 21.1% | 8893898 | 5.49 | 5.58 | 1.6% | 8893919 | 3.8 | 4.6 | 19.0% |
| Ba | 8893859 | 478 | 490 | 2.5% | 8893878 | 499 | 465 | 7.1% | 8893898 | 408 | 407 | 0.2% | 8893919 | 478 | 468 | 2.1% |
| Be | 8893859 | 1.12 | 1.17 | 4.4% | 8893878 | 1.22 | 1.06 | 14.0% | 8893898 | 1.26 | 1.12 | 11.8% | 8893919 | 1.15 | 1.33 | 14.5% |
| Bi | 8893859 | 0.10 | 0.10 | 0.0% | 8893878 | 0.126 | 0.113 | 10.9% | 8893898 | 0.21 | 0.22 | 4.7% | 8893919 | 0.16 | 0.16 | 0.0% |
| Ca | 8893859 | 1.64 | 1.60 | 2.5% | 8893878 | 1.44 | 1.38 | 4.3% | 8893898 | 1.19 | 1.14 | 4.3% | 8893919 | 1.42 | 1.39 | 2.1% |
| Cd | 8893859 | 0.04 | 0.04 | 0.0% | 8893878 | 0.06 | 0.05 | 18.2% | 8893898 | 0.26 | 0.27 | 3.8% | 8893919 | 0.06 | 0.07 | 15.4% |
| Ce | 8893859 | 20.6 | 21.2 | 2.9% | 8893878 | 25.7 | 27.2 | 5.7% | 8893898 | 27.1 | 28.9 | 6.4% | 8893919 | 26.1 | 27.2 | 4.1% |
| Co | 8893859 | 9.79 | 10.5 | 7.0% | 8893878 | 10.2 | 9.00 | 12.5% | 8893898 | 14.4 | 13.6 | 5.7% | 8893919 | 11.8 | 11.4 | 3.4% |
| Cr | 8893859 | 48.2 | 44.4 | 8.2% | 8893878 | 52.3 | 43.8 | 17.7% | 8893898 | 80.4 | 77.1 | 4.2% | 8893919 | 65.3 | 65.8 | 0.8% |
| Cs | 8893859 | 1.19 | 1.22 | 2.5% | 8893878 | 1.26 | 1.17 | 7.4% | 8893898 | 1.90 | 1.93 | 1.6% | 8893919 | 1.52 | 1.48 | 2.7% |
| Cu | 8893859 | 23.5 | 25.8 | 9.3% | 8893878 | 28.1 | 23.3 | 18.7% | 8893898 | 16.5 | 16.1 | 2.5% | 8893919 | 16.4 | 15.6 | 5.0% |
| Fe | 8893859 | 2.20 | 2.18 | 0.9% | 8893878 | 2.43 | 2.29 | 5.9% | 8893898 | 3.98 | 3.87 | 2.8% | 8893919 | 3.38 | 3.27 | 3.3% |
| Ga | 8893859 | 15.1 | 15.2 | 0.7% | 8893878 | 16.1 | 14.1 | 13.2% | 8893898 | 15.5 | 15.2 | 2.0% | 8893919 | 17.3 | 16.6 | 4.1% |
| Ge | 8893859 | < 0.05 | < 0.05 | 0.0% | 8893878 | < 0.05 | < 0.05 | 0.0% | 8893898 | < 0.05 | < 0.05 | 0.0% | 8893919 | < 0.05 | < 0.05 | 0.0% |
| Hf | 8893859 | 1.9 | 1.9 | 0.0% | 8893878 | 3.1 | 3.1 | 0.0% | 8893898 | 2.6 | 2.6 | 0.0% | 8893919 | 2.8 | 2.8 | 0.0% |
| In | 8893859 | 0.027 | 0.025 | 7.7% | 8893878 | 0.030 | 0.025 | 18.2% | 8893898 | 0.0416 | 0.0397 | 4.7% | 8893919 | 0.030 | 0.028 | 6.9% |
| K | 8893859 | 1.57 | 1.57 | 0.0% | 8893878 | 1.55 | 1.47 | 5.3% | 8893898 | 1.28 | 1.26 | 1.6% | 8893919 | 1.56 | 1.53 | 1.9% |
| La | 8893859 | 10.2 | 10.3 | 1.0% | 8893878 | 11.5 | 12.2 | 5.9% | 8893898 | 13.9 | 15.8 | 12.8% | 8893919 | 10.3 | 11.3 | 9.3% |
| Li | 8893859 | 18.0 | 17.9 | 0.6% | 8893878 | 15.2 | 14.4 | 5.4% | 8893898 | 23.7 | 23.4 | 1.3% | 8893919 | 18.7 | 18.4 | 1.6% |
| Mg | 8893859 | 0.840 | 0.814 | 3.1% | 8893878 | 0.611 | 0.573 | 6.4% | 8893898 | 0.69 | 0.67 | 2.9% | 8893919 | 0.75 | 0.73 | 2.7% |
| Mn | 8893859 | 346 | 359 | 3.7% | 8893878 | 294 | 279 | 5.2% | 8893898 | 382 | 363 | 5.1% | 8893919 | 351 | 352 | 0.3% |
| Mo | 8893859 | 0.33 | 0.38 | 14.1% | 8893878 | 0.63 | 0.56 | 11.8% | 8893898 | 0.973 | 1.05 | 7.6% | 8893919 | 0.51 | 0.50 | 2.0% |
| Na | 8893859 | 2.12 | 2.11 | 0.5% | 8893878 | 2.08 | 1.99 | 4.4% | 8893898 | 1.46 | 1.42 | 2.8% | 8893919 | 2.00 | 1.97 | 1.5% |
| Nb | 8893859 | 5.6 | 5.6 | 0.0% | 8893878 | 6.5 | 5.9 | 9.7% | 8893898 | 7.2 | 7.4 | 2.7% | 8893919 | 7.4 | 6.0 | 20.9% |
| Ni | 8893859 | 31.6 | 32.0 | 1.3% | 8893878 | 26.7 | 26.6 | 0.4% | 8893898 | 33.1 | 32.6 | 1.5% | 8893919 | 31.2 | 30.2 | 3.3% |
| P | 8893859 | 371 | 366 | 1.4% | 8893878 | 250 | 240 | 4.1% | 8893898 | 2070 | 2150 | 3.8% | 8893919 | 239 | 235 | 1.7% |
| Pb | 8893859 | 11.6 | 12.1 | 4.2% | 8893878 | 12.0 | 11.4 | 5.1% | 8893898 | 13.1 | 13.2 | 0.8% | 8893919 | 12.5 | 11.9 | 4.9% |
| Rb | 8893859 | 60.6 | 61.3 | 1.1% | 8893878 | 47.3 | 43.6 | 8.1% | 8893898 | 40.6 | 40.1 | 1.2% | 8893919 | 54.4 | 51.3 | 5.9% |
| Re | 8893859 | < 0.002 | < 0.002 | 0.0% | 8893878 | < 0.002 | < 0.002 | 0.0% | 8893898 | < 0.002 | < 0.002 | 0.0% | 8893919 | < 0.002 | < 0.002 | 0.0% |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

| | | | | | | | | | | | | | | | | |
|----|---------|-------|-------|-------|---------|-------|-------|-------|---------|-------|-------|-------|---------|-------|-------|-------|
| S | 8893859 | 0.03 | 0.03 | 0.0% | 8893878 | 0.04 | 0.04 | 0.0% | 8893898 | 0.07 | 0.07 | 0.0% | 8893919 | 0.04 | 0.04 | 0.0% |
| Sb | 8893859 | 0.111 | 0.105 | 5.6% | 8893878 | 0.181 | 0.191 | 5.4% | 8893898 | 0.35 | 0.40 | 13.3% | 8893919 | 0.16 | 0.20 | 22.2% |
| Sc | 8893859 | 8.2 | 8.5 | 3.6% | 8893878 | 8.5 | 8.2 | 3.6% | 8893898 | 9.1 | 9.0 | 1.1% | 8893919 | 9.59 | 9.11 | 5.1% |
| Se | 8893859 | 0.5 | 0.5 | 0.0% | 8893878 | 0.9 | 0.8 | 11.8% | 8893898 | 1.40 | 1.49 | 6.2% | 8893919 | 0.6 | 0.9 | |
| Sn | 8893859 | 1.2 | 1.1 | 8.7% | 8893878 | 1.2 | 1.2 | 0.0% | 8893898 | 1.6 | 1.1 | | 8893919 | 1.24 | 1.15 | 7.5% |
| Sr | 8893859 | 374 | 377 | 0.8% | 8893878 | 264 | 247 | 6.7% | 8893898 | 192 | 182 | 5.3% | 8893919 | 248 | 251 | 1.2% |
| Ta | 8893859 | 0.39 | 0.36 | 8.0% | 8893878 | 0.433 | 0.449 | 3.6% | 8893898 | 0.52 | 0.47 | 10.1% | 8893919 | 0.35 | 0.32 | 9.0% |
| Te | 8893859 | 0.02 | 0.02 | 0.0% | 8893878 | 0.028 | 0.025 | 11.3% | 8893898 | 0.042 | 0.050 | 17.4% | 8893919 | 0.01 | 0.06 | |
| Th | 8893859 | 2.43 | 3.00 | 21.0% | 8893878 | 3.34 | 3.70 | 10.2% | 8893898 | 4.84 | 5.72 | 16.7% | 8893919 | 3.9 | 4.3 | 9.8% |
| Ti | 8893859 | 0.28 | 0.28 | 0.0% | 8893878 | 0.297 | 0.290 | 2.4% | 8893898 | 0.375 | 0.350 | 6.9% | 8893919 | 0.31 | 0.30 | 3.3% |
| Tl | 8893859 | 0.265 | 0.270 | 1.9% | 8893878 | 0.278 | 0.271 | 2.6% | 8893898 | 0.23 | 0.23 | 0.0% | 8893919 | 0.29 | 0.27 | 7.1% |
| U | 8893859 | 0.609 | 0.612 | 0.5% | 8893878 | 0.963 | 0.931 | 3.4% | 8893898 | 1.04 | 1.13 | 8.3% | 8893919 | 0.917 | 0.870 | 5.3% |
| V | 8893859 | 55.8 | 57.6 | 3.2% | 8893878 | 67.1 | 63.4 | 5.7% | 8893898 | 88.4 | 81.3 | 8.4% | 8893919 | 89.2 | 84.3 | 5.6% |
| W | 8893859 | 0.3 | 0.5 | | 8893878 | 0.45 | 0.46 | 2.2% | 8893898 | 0.6 | 0.5 | 18.2% | 8893919 | 0.34 | 0.36 | 5.7% |
| Y | 8893859 | 9.50 | 9.58 | 0.8% | 8893878 | 9.93 | 9.33 | 6.2% | 8893898 | 8.5 | 8.7 | 2.3% | 8893919 | 9.11 | 9.36 | 2.7% |
| Zn | 8893859 | 35.1 | 29.9 | 16.0% | 8893878 | 30.6 | 33.0 | 7.5% | 8893898 | 83.8 | 85.8 | 2.4% | 8893919 | 39.5 | 38.8 | 1.8% |
| Zr | 8893859 | 82.5 | 82.2 | 0.4% | 8893878 | 140 | 130 | 7.4% | 8893898 | 102 | 102 | 0.0% | 8893919 | 123 | 124 | 0.8% |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| Parameter | CRM #1 (ref.SY-4) | | | | CRM #2 (ref.GTS-2A) | | | | CRM #3 (ref.Till-2) | | | | CRM #4 (ref.Till-2) | | | |
|-----------|-------------------|--------|----------|------------|---------------------|--------|----------|------------|---------------------|--------|----------|------------|---------------------|--------|----------|------------|
| | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits |
| Al | 10.95 | 11.02 | 100% | 90% - 110% | 6.96 | 6.68 | 95% | 90% - 110% | | | | | 8.17 | 7.99 | 97% | 90% - 110% |
| As | | | | | 124 | 123 | 99% | 90% - 110% | | | | | 26 | 28.3 | 108% | 90% - 110% |
| Ba | 340 | 338 | 99% | 90% - 110% | 186 | 179 | 96% | 90% - 110% | | | | | 540 | 519 | 96% | 90% - 110% |
| Be | 2.6 | 2.83 | 108% | 90% - 110% | | | | | | | | | 4.0 | 3.41 | 85% | 90% - 110% |
| Ca | 5.72 | 5.65 | 98% | 90% - 110% | 4.01 | 3.75 | 93% | 90% - 110% | | | | | 0.907 | 0.882 | 97% | 90% - 110% |
| Ce | 122 | 115 | 94% | 90% - 110% | 24 | 22 | 91% | 90% - 110% | | | | | 98 | 95.1 | 97% | 90% - 110% |
| Co | 2.8 | 2.64 | 94% | 90% - 110% | 22.1 | 21.3 | 96% | 90% - 110% | | | | | | | | |
| Cr | | | | | | | | | | | | | 60.3 | 61 | 101% | 90% - 110% |
| Cs | 1.5 | 1.62 | 108% | 90% - 110% | | | | | | | | | 12 | 11.8 | 98% | 90% - 110% |
| Cu | | | | | 88.6 | 98.2 | 110% | 90% - 110% | | | | | 150 | 144 | 96% | 90% - 110% |
| Fe | 4.34 | 4.25 | 97% | 90% - 110% | 7.56 | 7.13 | 94% | 90% - 110% | | | | | 3.77 | 3.71 | 98% | 90% - 110% |
| Ga | 35 | 37.5 | 107% | 90% - 110% | | | | | | | | | | | | |
| Hf | | | | | | | | | | | | | 11 | 3.59 | | 90% - 110% |
| K | 1.37 | 1.4 | 102% | 90% - 110% | 2.021 | 1.909 | 94% | 90% - 110% | | | | | | | | |
| La | 58 | 53.0 | 91% | 90% - 110% | | | | | | | | | 44 | 41.4 | 94% | 90% - 110% |
| Li | 37 | 38 | 102% | 90% - 110% | | | | | | | | | 47 | 44 | 93% | 90% - 110% |
| Mg | 0.325 | 0.313 | 96% | 90% - 110% | 2.412 | 2.353 | 97% | 90% - 110% | | | | | 1.10 | 1.05 | 95% | 90% - 110% |
| Mn | | | | | 1510 | 1382 | 91% | 90% - 110% | | | | | 780 | 719 | 92% | 90% - 110% |
| Mo | | | | | | | | | | | | | 14 | 13.6 | 97% | 90% - 110% |
| Na | 5.267 | 5.258 | 99% | 90% - 110% | 0.617 | 0.603 | 97% | 90% - 110% | | | | | 1.624 | 1.621 | 99% | 90% - 110% |
| Nb | 13 | 14.3 | 110% | 90% - 110% | | | | | | | | | 20 | 16.3 | 81% | 90% - 110% |
| Ni | 9 | 9 | 100% | 90% - 110% | 77.1 | 69.5 | 90% | 90% - 110% | | | | | 32 | 32 | 100% | 90% - 110% |
| P | | | | | 892 | 976 | 109% | 90% - 110% | | | | | | | | |
| Pb | 10 | 10.8 | 108% | 90% - 110% | | | | | | | | | 31 | 29.3 | 94% | 90% - 110% |
| Rb | 55 | 54.6 | 99% | 90% - 110% | | | | | 143 | 142 | 99% | 90% - 110% | 143 | 157 | 109% | 90% - 110% |
| S | | | | | 0.348 | 0.383 | 110% | 90% - 110% | | | | | | | | |
| Sb | | | | | | | | | | | | | 0.8 | 0.841 | 105% | 90% - 110% |
| Sc | 1.1 | 0.8 | 72% | 90% - 110% | | | | | | | | | 12 | 12 | 100% | 90% - 110% |
| Sr | 1191 | 1113 | 93% | 90% - 110% | | | | | | | | | 144 | 123 | 85% | 90% - 110% |
| Ta | 0.9 | 0.9 | 100% | 90% - 110% | | | | | | | | | | | | |
| Th | 1.4 | 1.11 | 79% | 90% - 110% | | | | | | | | | 18.4 | 17.0 | 92% | 90% - 110% |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

| | | | | | | | | | | | | | | | | |
|---------------------|--------|--------|----------|------------|-----|-----|-----|------------|--|--|--|--|------|------|-----|------------|
| Ti | 0.172 | 0.174 | 101% | 90% - 110% | | | | | | | | | 0.53 | 0.45 | 84% | 90% - 110% |
| U | | | | | | | | | | | | | 5.7 | 4.33 | 75% | 90% - 110% |
| V | 8 | 7 | 87% | 90% - 110% | | | | | | | | | 77 | 76 | 98% | 90% - 110% |
| W | | | | | | | | | | | | | 5 | 4.30 | 86% | 90% - 110% |
| Y | 119 | 131 | 110% | 90% - 110% | | | | | | | | | | | | |
| Zn | 93 | 98 | 105% | 90% - 110% | 208 | 203 | 97% | 90% - 110% | | | | | 130 | 119 | 91% | 90% - 110% |
| CRM #5 (ref.GTS-2A) | | | | | | | | | | | | | | | | |
| Parameter | Expect | Actual | Recovery | Limits | | | | | | | | | | | | |
| Al | 6.96 | 6.72 | 96% | 90% - 110% | | | | | | | | | | | | |
| As | 124 | 130 | 104% | 90% - 110% | | | | | | | | | | | | |
| Ba | 186 | 180 | 96% | 90% - 110% | | | | | | | | | | | | |
| Ca | 4.01 | 3.78 | 94% | 90% - 110% | | | | | | | | | | | | |
| Ce | 24 | 22 | 91% | 90% - 110% | | | | | | | | | | | | |
| Co | 22.1 | 21.6 | 97% | 90% - 110% | | | | | | | | | | | | |
| Cu | 88.6 | 82.9 | 93% | 90% - 110% | | | | | | | | | | | | |
| Fe | 7.56 | 7.23 | 95% | 90% - 110% | | | | | | | | | | | | |
| K | 2.021 | 1.937 | 95% | 90% - 110% | | | | | | | | | | | | |
| Mg | 2.412 | 2.37 | 98% | 90% - 110% | | | | | | | | | | | | |
| Mn | 1510 | 1403 | 92% | 90% - 110% | | | | | | | | | | | | |
| Na | 0.617 | 0.608 | 98% | 90% - 110% | | | | | | | | | | | | |
| Ni | 77.1 | 71.8 | 93% | 90% - 110% | | | | | | | | | | | | |
| P | 892 | 994 | 111% | 90% - 110% | | | | | | | | | | | | |
| S | 0.348 | 0.376 | 108% | 90% - 110% | | | | | | | | | | | | |
| Zn | 208 | 197 | 94% | 90% - 110% | | | | | | | | | | | | |

Method Summary

CLIENT NAME: CRUZ COBALT CORP.

AGAT WORK ORDER: 17T282583

PROJECT:

ATTENTION TO: Jason Gigliotti, Jim Nelson

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|----------------|---------------|----------------------|----------------------|
| Solid Analysis | | | |
| Ag | MIN-200-12020 | | ICP-MS |
| Al | MIN-200-12020 | | ICP/OES |
| As | MIN-200-12020 | | ICP-MS |
| Ba | MIN-200-12020 | | ICP-MS |
| Be | MIN-200-12020 | | ICP-MS |
| Bi | MIN-200-12020 | | ICP-MS |
| Ca | MIN-200-12020 | | ICP/OES |
| Cd | MIN-200-12020 | | ICP-MS |
| Ce | MIN-200-12020 | | ICP-MS |
| Co | MIN-200-12020 | | ICP-MS |
| Cr | MIN-200-12020 | | ICP/OES |
| Cs | MIN-200-12020 | | ICP-MS |
| Cu | MIN-200-12020 | | ICP-MS |
| Fe | MIN-200-12020 | | ICP/OES |
| Ga | MIN-200-12020 | | ICP-MS |
| Ge | MIN-200-12020 | | ICP-MS |
| Hf | MIN-200-12020 | | ICP-MS |
| In | MIN-200-12020 | | ICP-MS |
| K | MIN-200-12020 | | ICP/OES |
| La | MIN-200-12020 | | ICP-MS |
| Li | MIN-200-12020 | | ICP-MS |
| Mg | MIN-200-12020 | | ICP/OES |
| Mn | MIN-200-12020 | | ICP/OES |
| Mo | MIN-200-12020 | | ICP-MS |
| Na | MIN-200-12020 | | ICP/OES |
| Nb | MIN-200-12020 | | ICP-MS |
| Ni | MIN-200-12020 | | ICP-MS |
| P | MIN-200-12020 | | ICP/OES |
| Pb | MIN-200-12020 | | ICP-MS |
| Rb | MIN-200-12020 | | ICP-MS |
| Re | MIN-200-12020 | | ICP-MS |
| S | MIN-200-12020 | | ICP/OES |
| Sb | MIN-200-12020 | | ICP-MS |
| Sc | MIN-200-12020 | | ICP-MS |
| Se | MIN-200-12020 | | ICP-MS |
| Sn | MIN-200-12020 | | ICP-MS |
| Sr | MIN-200-12020 | | ICP-MS |
| Ta | MIN-200-12020 | | ICP-MS |
| Te | MIN-200-12020 | | ICP-MS |
| Th | MIN-200-12020 | | ICP-MS |
| Ti | MIN-200-12020 | | ICP/OES |
| Tl | MIN-200-12020 | | ICP-MS |
| U | MIN-200-12020 | | ICP-MS |
| V | MIN-200-12020 | | ICP/OES |
| W | MIN-200-12020 | | ICP-MS |
| Y | MIN-200-12020 | | ICP-MS |
| Zn | MIN-200-12020 | | ICP-MS |
| Zr | MIN-200-12020 | | ICP-MS |

CLIENT NAME: CRUZ COBALT CORP.
P.O BOX 10112 1470-701 W. GEORGIA ST
VANCOUVER, BC V7Y 1C6
604-646-6908

ATTENTION TO: Jason Gigliotti, Jim Nelson

PROJECT:

AGAT WORK ORDER: 17T282584

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Jan 18, 2018

PAGES (INCLUDING COVER): 19

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.

Certificate of Analysis

AGAT WORK ORDER: 17T282584

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

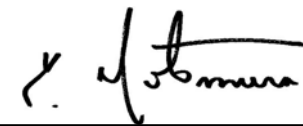
CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | DATE REPORTED: Jan 18, 2018 | | | SAMPLE TYPE: Other | | | | | | | |
|----------------------------|-----------------------------|------|------|-----------------------------|------|------|--------------------|------|------|------|------|------|------|------|
| Analyte: | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs | Cu | Fe |
| Unit: | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % |
| RDL: | 0.01 | 0.01 | 0.2 | 1 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.05 | 0.5 | 0.01 | 0.5 | 0.01 |
| G30 (8893940) | 0.19 | 6.98 | 4.1 | 509 | 1.29 | 0.10 | 1.47 | 0.08 | 36.1 | 10.7 | 60.4 | 1.29 | 3.6 | 2.37 |
| G31 (8893941) | 0.21 | 7.74 | 3.0 | 430 | 1.30 | 0.12 | 1.36 | 0.08 | 32.4 | 13.2 | 79.1 | 1.51 | 5.8 | 3.42 |
| G32 (8893942) | 0.36 | 6.92 | 1.4 | 497 | 1.17 | 0.09 | 1.38 | 0.09 | 41.7 | 12.7 | 71.0 | 1.77 | 9.9 | 2.40 |
| G33 (8893943) | 0.17 | 6.91 | 2.2 | 466 | 1.31 | 0.09 | 1.62 | 0.06 | 21.9 | 15.3 | 75.6 | 1.25 | 5.5 | 2.74 |
| G34 (8893944) | 0.24 | 6.91 | 2.0 | 498 | 1.23 | 0.08 | 1.68 | 0.07 | 52.0 | 14.1 | 81.0 | 1.42 | 8.9 | 3.20 |
| G35 (8893945) | 0.24 | 6.85 | 2.1 | 479 | 1.18 | 0.09 | 1.36 | 0.07 | 21.3 | 14.6 | 60.6 | 1.38 | 6.2 | 2.39 |
| G36 (8893946) | 0.35 | 7.41 | 3.2 | 509 | 1.17 | 0.12 | 1.43 | 0.07 | 26.6 | 17.0 | 70.5 | 1.63 | 6.9 | 2.63 |
| G37 (8893947) | 0.31 | 7.51 | 3.6 | 493 | 1.33 | 0.15 | 1.50 | 0.09 | 27.5 | 18.3 | 80.5 | 1.90 | 8.3 | 3.49 |
| G38 (8893948) | 0.26 | 7.35 | 2.9 | 553 | 1.26 | 0.09 | 1.52 | 0.08 | 31.2 | 15.4 | 73.8 | 1.89 | 9.4 | 2.51 |
| G39 (8893949) | 0.18 | 6.93 | 3.1 | 525 | 1.28 | 0.09 | 1.37 | 0.05 | 41.5 | 14.2 | 68.5 | 1.60 | 13.4 | 2.24 |
| G40 (8893950) | 0.25 | 7.11 | 1.7 | 560 | 1.27 | 0.09 | 1.31 | 0.06 | 27.1 | 11.9 | 59.0 | 1.94 | 6.0 | 2.22 |
| G41 (8893951) | 0.27 | 7.17 | 2.4 | 512 | 1.30 | 0.12 | 1.41 | 0.09 | 30.2 | 14.8 | 69.7 | 2.10 | 5.9 | 3.02 |
| G42 (8893952) | 0.32 | 6.94 | 4.0 | 507 | 1.25 | 0.11 | 1.43 | 0.11 | 29.4 | 16.6 | 66.2 | 2.10 | 13.8 | 2.81 |
| G43 (8893953) | 0.24 | 7.40 | 4.1 | 513 | 1.31 | 0.11 | 1.54 | 0.08 | 26.6 | 18.7 | 68.4 | 1.59 | 7.9 | 2.63 |
| G44 (8893954) | 0.51 | 8.07 | 15.7 | 446 | 1.78 | 0.30 | 1.40 | 0.18 | 51.1 | 38.6 | 88.2 | 2.60 | 44.3 | 3.58 |
| G45 (8893955) | 0.37 | 6.66 | 6.8 | 529 | 1.18 | 0.17 | 1.50 | 0.17 | 28.0 | 16.1 | 69.5 | 2.92 | 12.7 | 2.97 |
| H1 (8893956) | 0.19 | 6.50 | 2.5 | 527 | 1.13 | 0.08 | 1.24 | 0.05 | 13.9 | 8.69 | 41.2 | 1.53 | 4.4 | 1.91 |
| H2 (8893957) | 0.14 | 6.87 | 2.4 | 476 | 1.36 | 0.09 | 1.50 | 0.05 | 16.3 | 13.3 | 53.8 | 1.48 | 5.0 | 2.24 |
| H3 (8893958) | 0.12 | 6.46 | 4.2 | 539 | 1.38 | 0.08 | 1.47 | 0.02 | 37.4 | 10.3 | 44.1 | 1.26 | 15.5 | 1.57 |
| H4 (8893959) | 0.13 | 6.46 | 2.3 | 517 | 1.28 | 0.06 | 1.32 | 0.04 | 12.4 | 10.2 | 35.5 | 1.24 | 3.9 | 1.54 |
| H5 (8893960) | 0.14 | 6.60 | 4.0 | 492 | 1.28 | 0.07 | 1.48 | 0.06 | 18.5 | 12.5 | 44.0 | 1.22 | 3.9 | 1.84 |
| H6 (8893961) | 0.19 | 7.16 | 2.5 | 486 | 1.20 | 0.11 | 1.32 | 0.08 | 20.0 | 11.9 | 54.7 | 1.38 | 4.6 | 2.42 |
| H7 (8893962) | 0.15 | 6.55 | 3.3 | 500 | 1.35 | 0.08 | 1.46 | 0.07 | 31.7 | 14.0 | 54.7 | 1.40 | 7.6 | 2.00 |
| H8 (8893963) | 0.25 | 6.95 | 3.9 | 504 | 1.31 | 0.11 | 1.35 | 0.05 | 28.6 | 12.9 | 55.8 | 1.72 | 6.1 | 2.45 |
| H9 (8893964) | 0.27 | 6.80 | 78.2 | 453 | 1.23 | 0.19 | 1.27 | 0.06 | 29.2 | 16.7 | 66.7 | 2.17 | 12.6 | 3.30 |
| H10 (8893965) | 0.21 | 6.60 | 4.4 | 466 | 1.30 | 0.13 | 1.54 | 0.08 | 30.8 | 18.8 | 76.1 | 1.68 | 16.6 | 3.72 |
| H11 (8893966) | 0.19 | 6.67 | 2.4 | 491 | 1.38 | 0.11 | 1.39 | 0.06 | 33.0 | 14.1 | 52.3 | 1.60 | 13.3 | 2.17 |
| H12 (8893967) | 0.13 | 6.26 | 2.4 | 476 | 1.33 | 0.07 | 1.40 | 0.03 | 23.3 | 12.5 | 41.6 | 1.13 | 4.6 | 1.74 |
| H13 (8893968) | 0.18 | 6.46 | 1.6 | 511 | 1.12 | 0.09 | 1.49 | 0.04 | 24.3 | 10.3 | 50.2 | 1.40 | 9.5 | 1.96 |
| H14 (8893969) | 0.15 | 6.69 | 3.6 | 500 | 1.38 | 0.08 | 1.67 | 0.05 | 32.4 | 15.8 | 57.3 | 1.14 | 4.4 | 2.14 |
| H15 (8893970) | 0.21 | 6.48 | 2.1 | 475 | 1.33 | 0.12 | 1.44 | 0.05 | 28.5 | 14.5 | 56.5 | 2.01 | 11.5 | 2.46 |
| H16 (8893971) | 0.22 | 6.59 | 3.1 | 439 | 1.21 | 0.15 | 1.37 | 0.05 | 28.2 | 18.0 | 63.7 | 2.16 | 18.7 | 2.84 |

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 17T282584

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 18, 2018

SAMPLE TYPE: Other

| Analyte: | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs | Cu | Fe |
|---------------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|
| Unit: | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % |
| RDL: | 0.01 | 0.01 | 0.2 | 1 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.05 | 0.5 | 0.01 | 0.5 | 0.01 |
| H17 (8893972) | 0.31 | 7.18 | 7.7 | 390 | 1.48 | 0.22 | 1.16 | 0.11 | 25.9 | 24.4 | 77.4 | 2.52 | 19.1 | 4.31 |
| H18 (8893973) | 0.14 | 6.78 | 2.5 | 535 | 1.31 | 0.07 | 1.84 | 0.02 | 32.5 | 10.4 | 50.3 | 1.23 | 3.7 | 1.88 |
| H19 (8893974) | 0.25 | 6.87 | 6.6 | 425 | 1.32 | 0.17 | 1.43 | 0.09 | 29.3 | 19.1 | 74.0 | 2.03 | 16.3 | 3.41 |
| H20 (8893975) | 0.14 | 6.45 | 1.4 | 531 | 1.13 | 0.07 | 1.57 | 0.05 | 18.2 | 9.67 | 45.5 | 1.30 | 3.7 | 1.51 |
| H21 (8893976) | 0.37 | 6.80 | 8.3 | 359 | 1.27 | 0.29 | 1.07 | 0.10 | 25.8 | 19.7 | 80.1 | 2.49 | 20.2 | 5.45 |
| H22 (8893977) | 0.34 | 6.70 | 1.8 | 513 | 1.19 | 0.12 | 1.28 | 0.05 | 25.5 | 11.1 | 53.9 | 1.66 | 4.1 | 2.46 |
| H23 (8893978) | 0.18 | 6.73 | 8.9 | 479 | 1.54 | 0.28 | 1.45 | 0.07 | 30.9 | 23.4 | 51.5 | 1.45 | 23.9 | 2.81 |
| H24 (8893979) | 0.20 | 6.50 | 2.8 | 502 | 1.18 | 0.12 | 1.35 | 0.06 | 18.7 | 9.58 | 48.9 | 1.36 | 7.5 | 2.29 |
| H25 (8893980) | 0.14 | 7.01 | 3.3 | 469 | 1.41 | 0.08 | 1.59 | 0.04 | 29.7 | 16.3 | 59.2 | 1.21 | 3.7 | 2.58 |
| H26 (8893981) | 0.19 | 6.98 | 2.6 | 471 | 1.32 | 0.16 | 1.50 | 0.08 | 30.1 | 14.3 | 59.3 | 1.44 | 4.3 | 2.53 |
| H27 (8893982) | 0.28 | 5.60 | 3.8 | 464 | 0.88 | 0.15 | 1.08 | 0.07 | 28.5 | 7.38 | 44.5 | 1.46 | 13.8 | 2.14 |
| H28 (8893983) | 0.29 | 6.00 | 3.9 | 496 | 1.12 | 0.13 | 1.30 | 0.07 | 29.0 | 9.56 | 46.1 | 1.23 | 7.8 | 1.85 |
| H29 (8893984) | 0.33 | 6.94 | 2.0 | 488 | 1.35 | 0.08 | 1.45 | 0.07 | 19.0 | 13.7 | 62.7 | 1.50 | 4.4 | 2.41 |
| H30 (8893985) | 0.18 | 6.83 | 4.2 | 474 | 1.39 | 0.09 | 1.53 | 0.05 | 30.2 | 15.3 | 65.1 | 1.37 | 5.2 | 2.38 |
| H31 (8893986) | 0.26 | 7.06 | 2.1 | 523 | 1.38 | 0.08 | 1.55 | 0.06 | 31.7 | 14.3 | 64.1 | 1.60 | 4.8 | 2.23 |
| H32 (8893987) | 0.30 | 7.09 | 2.5 | 476 | 1.18 | 0.12 | 1.39 | 0.07 | 22.8 | 20.7 | 75.8 | 1.70 | 7.5 | 3.08 |
| H33 (8893988) | 0.29 | 6.68 | 3.3 | 475 | 1.26 | 0.11 | 1.44 | 0.09 | 36.9 | 17.6 | 81.1 | 1.67 | 7.4 | 3.05 |
| H34 (8893989) | 0.39 | 7.04 | 3.2 | 467 | 1.32 | 0.15 | 1.55 | 0.07 | 33.2 | 22.9 | 87.9 | 1.84 | 12.2 | 3.45 |
| H35 (8893990) | 0.47 | 7.22 | 5.5 | 472 | 1.38 | 0.16 | 1.43 | 0.13 | 34.6 | 23.2 | 92.3 | 2.03 | 21.2 | 3.60 |
| H36 (8893991) | 0.51 | 7.81 | 7.4 | 474 | 1.55 | 0.18 | 1.26 | 0.08 | 29.9 | 24.4 | 84.9 | 2.35 | 14.2 | 3.62 |
| H37 (8893992) | 0.46 | 7.13 | 6.5 | 491 | 1.36 | 0.16 | 1.49 | 0.13 | 24.6 | 16.8 | 77.4 | 1.75 | 7.0 | 3.69 |
| H38 (8893993) | 0.43 | 7.32 | 5.8 | 464 | 1.32 | 0.13 | 1.45 | 0.09 | 22.2 | 23.1 | 94.6 | 1.98 | 14.0 | 3.91 |
| H39 (8893994) | 0.32 | 7.06 | 2.4 | 494 | 1.49 | 0.10 | 1.58 | 0.08 | 37.6 | 18.5 | 74.7 | 1.73 | 5.1 | 2.80 |
| H40 (8893995) | 0.19 | 6.56 | 1.8 | 500 | 1.50 | 0.09 | 1.48 | 0.05 | 28.1 | 15.0 | 53.9 | 1.40 | 4.0 | 2.18 |
| H41 (8893996) | 0.21 | 6.68 | 2.7 | 507 | 1.45 | 0.09 | 1.45 | 0.06 | 23.8 | 16.2 | 69.2 | 1.75 | 7.2 | 2.20 |
| H42 (8893997) | 0.27 | 7.07 | 4.0 | 497 | 1.48 | 0.11 | 1.55 | 0.07 | 33.3 | 23.5 | 73.6 | 1.70 | 6.1 | 2.79 |
| H43 (8893998) | 0.70 | 7.50 | 17.3 | 412 | 1.75 | 0.27 | 1.37 | 0.17 | 41.2 | 43.1 | 88.2 | 3.35 | 68.1 | 4.48 |
| I1 (8893999) | 0.23 | 6.68 | 2.2 | 499 | 1.31 | 0.07 | 1.40 | 0.04 | 17.1 | 12.2 | 51.7 | 1.44 | 3.0 | 1.92 |
| I2 (8894000) | 0.51 | 6.60 | 3.8 | 514 | 1.26 | 0.10 | 1.41 | 0.07 | 25.7 | 12.1 | 49.0 | 1.38 | 3.0 | 2.13 |
| I3 (8894001) | 0.35 | 6.69 | 3.8 | 516 | 1.28 | 0.14 | 1.35 | 0.05 | 20.9 | 12.4 | 51.1 | 1.64 | 5.3 | 2.08 |
| I4 (8894002) | 0.24 | 6.82 | 6.0 | 437 | 1.46 | 0.17 | 1.23 | 0.06 | 71.9 | 23.0 | 70.1 | 2.44 | 38.4 | 2.86 |
| I5 (8894003) | 0.22 | 7.22 | 3.8 | 454 | 1.34 | 0.14 | 1.23 | 0.07 | 21.8 | 19.5 | 63.4 | 1.84 | 6.2 | 2.81 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282584

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 18, 2018

SAMPLE TYPE: Other

| Sample ID (AGAT ID) | Analyte: Unit: RDL: | Ag ppm | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Ce ppm | Co ppm | Cr ppm | Cs ppm | Cu ppm | Fe % |
|---------------------|---------------------------|-----------|---------|-----------|-----------|-----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|-----------|---------|
| I6 (8894004) | | 0.20 | 7.04 | 5.5 | 476 | 1.46 | 0.16 | 1.31 | 0.04 | 28.5 | 21.2 | 67.5 | 1.83 | 16.2 | 2.59 |
| I7 (8894005) | | 0.28 | 6.66 | 3.0 | 471 | 1.33 | 0.14 | 1.34 | 0.08 | 29.1 | 18.3 | 66.6 | 2.01 | 12.9 | 2.77 |
| I8 (8894006) | | 0.25 | 7.39 | 7.4 | 476 | 1.36 | 0.17 | 1.22 | 0.07 | 27.0 | 19.4 | 71.1 | 2.21 | 19.5 | 3.19 |
| I9 (8894007) | | 0.24 | 7.14 | 8.6 | 406 | 1.38 | 0.21 | 1.17 | 0.09 | 27.9 | 25.5 | 77.5 | 2.49 | 21.9 | 3.94 |
| I10 (8894008) | | 0.40 | 7.75 | 6.0 | 490 | 1.68 | 0.12 | 1.46 | 0.06 | 116 | 36.4 | 78.1 | 1.57 | 30.5 | 2.77 |
| I11 (8894009) | | 0.30 | 6.94 | 4.8 | 440 | 1.28 | 0.16 | 1.33 | 0.08 | 36.4 | 18.1 | 75.7 | 1.78 | 20.1 | 2.88 |
| I12 (8894010) | | 0.27 | 7.09 | 4.3 | 497 | 1.16 | 0.10 | 1.43 | 0.05 | 26.5 | 14.0 | 56.9 | 1.41 | 7.1 | 2.34 |
| I13 (8894011) | | 0.17 | 6.75 | 2.8 | 519 | 1.29 | 0.09 | 1.45 | 0.06 | 25.8 | 14.2 | 53.2 | 1.49 | 8.3 | 2.08 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282584

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 18, 2018

SAMPLE TYPE: Other

| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P |
|---------------|------|-------|-----|-------|------|------|------|------|-----|------|------|------|------|------|
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 |
| G30 (8893940) | 19.5 | <0.05 | 3.5 | 0.031 | 1.62 | 16.9 | 14.7 | 0.59 | 342 | 0.59 | 2.07 | 9.0 | 22.9 | 466 |
| G31 (8893941) | 20.1 | <0.05 | 3.0 | 0.041 | 1.36 | 16.2 | 19.7 | 0.66 | 383 | 0.84 | 1.79 | 8.8 | 29.0 | 746 |
| G32 (8893942) | 19.0 | <0.05 | 3.1 | 0.033 | 1.66 | 19.9 | 17.3 | 0.67 | 314 | 0.61 | 1.91 | 9.1 | 31.1 | 578 |
| G33 (8893943) | 18.7 | <0.05 | 2.2 | 0.030 | 1.51 | 9.9 | 14.7 | 0.82 | 467 | 0.50 | 2.18 | 7.2 | 31.0 | 491 |
| G34 (8893944) | 18.3 | <0.05 | 3.8 | 0.031 | 1.60 | 25.0 | 14.2 | 0.82 | 474 | 0.48 | 2.15 | 11.4 | 32.7 | 458 |
| G35 (8893945) | 17.2 | <0.05 | 3.0 | 0.025 | 1.52 | 10.6 | 17.3 | 0.62 | 325 | 0.63 | 1.98 | 6.9 | 36.4 | 469 |
| G36 (8893946) | 18.6 | <0.05 | 3.1 | 0.032 | 1.62 | 13.2 | 20.5 | 0.69 | 362 | 0.77 | 1.82 | 8.6 | 38.3 | 460 |
| G37 (8893947) | 21.3 | <0.05 | 3.3 | 0.041 | 1.57 | 13.2 | 22.8 | 0.80 | 383 | 0.80 | 1.78 | 9.5 | 40.5 | 856 |
| G38 (8893948) | 19.6 | <0.05 | 3.1 | 0.029 | 1.79 | 13.6 | 18.2 | 0.90 | 371 | 0.52 | 1.98 | 9.2 | 36.3 | 420 |
| G39 (8893949) | 18.5 | <0.05 | 2.3 | 0.025 | 1.82 | 14.3 | 15.1 | 0.84 | 340 | 0.44 | 1.97 | 7.9 | 35.6 | 407 |
| G40 (8893950) | 19.2 | <0.05 | 3.6 | 0.031 | 1.93 | 12.7 | 17.6 | 0.73 | 302 | 0.55 | 1.96 | 10.4 | 28.4 | 347 |
| G41 (8893951) | 21.8 | <0.05 | 3.0 | 0.032 | 1.64 | 14.6 | 23.9 | 0.74 | 402 | 0.61 | 1.90 | 9.3 | 32.9 | 938 |
| G42 (8893952) | 20.3 | <0.05 | 3.2 | 0.036 | 1.62 | 13.9 | 17.3 | 0.70 | 355 | 0.98 | 1.82 | 10.4 | 32.5 | 756 |
| G43 (8893953) | 18.4 | <0.05 | 3.3 | 0.028 | 1.64 | 12.4 | 17.4 | 0.76 | 342 | 0.75 | 2.00 | 7.9 | 37.4 | 413 |
| G44 (8893954) | 19.2 | <0.05 | 2.0 | 0.046 | 1.51 | 20.6 | 23.6 | 1.02 | 633 | 1.73 | 1.61 | 8.7 | 59.0 | 1290 |
| G45 (8893955) | 22.0 | <0.05 | 3.6 | 0.038 | 1.75 | 13.5 | 26.8 | 0.76 | 473 | 1.07 | 1.77 | 10.1 | 29.9 | 954 |
| H1 (8893956) | 20.2 | <0.05 | 1.7 | 0.020 | 1.66 | 6.8 | 12.1 | 0.47 | 257 | 0.41 | 2.10 | 5.6 | 19.6 | 531 |
| H2 (8893957) | 19.2 | <0.05 | 2.2 | 0.027 | 1.57 | 7.9 | 14.9 | 0.69 | 344 | 0.45 | 2.14 | 5.5 | 28.5 | 507 |
| H3 (8893958) | 19.6 | <0.05 | 2.3 | 0.020 | 1.68 | 11.8 | 10.9 | 0.58 | 391 | 0.44 | 2.31 | 4.8 | 21.9 | 137 |
| H4 (8893959) | 17.5 | <0.05 | 1.4 | 0.015 | 1.63 | 5.7 | 11.1 | 0.53 | 226 | 0.29 | 2.24 | 4.1 | 22.5 | 236 |
| H5 (8893960) | 19.2 | <0.05 | 1.6 | 0.021 | 1.59 | 8.3 | 12.9 | 0.60 | 323 | 0.37 | 2.25 | 4.8 | 24.0 | 327 |
| H6 (8893961) | 19.8 | <0.05 | 2.5 | 0.031 | 1.59 | 9.6 | 16.2 | 0.54 | 274 | 0.69 | 1.98 | 6.5 | 23.6 | 369 |
| H7 (8893962) | 18.5 | <0.05 | 2.7 | 0.022 | 1.60 | 10.9 | 11.7 | 0.64 | 336 | 0.52 | 2.10 | 6.7 | 27.5 | 391 |
| H8 (8893963) | 21.3 | <0.05 | 3.6 | 0.027 | 1.67 | 13.1 | 17.0 | 0.60 | 282 | 0.80 | 1.89 | 7.9 | 24.9 | 410 |
| H9 (8893964) | 23.1 | <0.05 | 3.6 | 0.036 | 1.55 | 13.9 | 27.3 | 0.68 | 334 | 1.15 | 1.69 | 9.6 | 27.4 | 270 |
| H10 (8893965) | 21.4 | <0.05 | 3.6 | 0.032 | 1.47 | 10.7 | 16.3 | 0.74 | 460 | 0.75 | 2.04 | 8.0 | 33.1 | 421 |
| H11 (8893966) | 21.3 | <0.05 | 2.7 | 0.026 | 1.53 | 14.8 | 14.8 | 0.53 | 294 | 0.81 | 2.03 | 6.8 | 22.3 | 277 |
| H12 (8893967) | 18.3 | <0.05 | 1.6 | 0.019 | 1.50 | 7.6 | 10.2 | 0.55 | 259 | 0.44 | 2.21 | 4.5 | 20.5 | 342 |
| H13 (8893968) | 20.5 | <0.05 | 3.4 | 0.024 | 1.57 | 12.0 | 12.6 | 0.59 | 321 | 0.70 | 2.14 | 7.4 | 21.5 | 181 |
| H14 (8893969) | 19.4 | <0.05 | 2.4 | 0.023 | 1.57 | 13.8 | 10.3 | 0.67 | 392 | 0.50 | 2.33 | 5.4 | 23.7 | 522 |
| H15 (8893970) | 22.7 | <0.05 | 3.8 | 0.029 | 1.52 | 14.4 | 17.6 | 0.65 | 328 | 0.92 | 2.00 | 7.6 | 24.4 | 203 |
| H16 (8893971) | 21.1 | <0.05 | 3.3 | 0.030 | 1.54 | 12.8 | 20.6 | 0.87 | 425 | 0.65 | 1.91 | 7.9 | 32.4 | 207 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282584

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 18, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|-------|-----|-------|------|-----------------------------|------|------|-----|------|--------------------|------|------|------|--|
| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P | |
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm | |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 | |
| H17 (8893972) | 22.4 | <0.05 | 4.0 | 0.044 | 1.32 | 12.0 | 26.8 | 0.77 | 404 | 1.27 | 1.56 | 9.8 | 36.5 | 530 | |
| H18 (8893973) | 19.7 | <0.05 | 3.5 | 0.023 | 1.73 | 15.5 | 10.9 | 0.78 | 395 | 0.36 | 2.45 | 7.0 | 20.8 | 136 | |
| H19 (8893974) | 21.0 | <0.05 | 3.7 | 0.038 | 1.40 | 13.3 | 21.8 | 0.73 | 366 | 0.91 | 1.76 | 8.2 | 31.0 | 398 | |
| H20 (8893975) | 21.4 | <0.05 | 2.7 | 0.018 | 1.68 | 9.0 | 11.7 | 0.66 | 317 | 0.38 | 2.36 | 6.4 | 18.9 | 170 | |
| H21 (8893976) | 26.9 | <0.05 | 3.6 | 0.048 | 1.27 | 12.7 | 29.8 | 0.78 | 363 | 2.14 | 1.41 | 10.0 | 32.2 | 513 | |
| H22 (8893977) | 27.9 | <0.05 | 3.3 | 0.026 | 1.63 | 11.8 | 15.3 | 0.47 | 263 | 0.96 | 1.87 | 8.9 | 16.7 | 257 | |
| H23 (8893978) | 22.2 | <0.05 | 2.3 | 0.040 | 1.50 | 14.0 | 15.4 | 0.61 | 343 | 0.72 | 2.10 | 7.1 | 26.9 | 482 | |
| H24 (8893979) | 21.5 | <0.05 | 2.8 | 0.023 | 1.54 | 8.7 | 12.4 | 0.52 | 282 | 0.70 | 2.08 | 6.0 | 16.8 | 156 | |
| H25 (8893980) | 19.6 | <0.05 | 2.4 | 0.027 | 1.46 | 13.0 | 12.2 | 0.70 | 354 | 0.43 | 2.17 | 5.9 | 27.8 | 327 | |
| H26 (8893981) | 19.8 | <0.05 | 2.7 | 0.028 | 1.46 | 14.2 | 14.3 | 0.62 | 350 | 0.60 | 2.07 | 6.7 | 25.2 | 433 | |
| H27 (8893982) | 23.7 | <0.05 | 3.9 | 0.029 | 1.41 | 13.4 | 12.8 | 0.41 | 283 | 0.96 | 1.44 | 10.1 | 14.0 | 467 | |
| H28 (8893983) | 19.7 | <0.05 | 3.3 | 0.024 | 1.50 | 13.6 | 11.5 | 0.46 | 298 | 0.60 | 1.91 | 7.2 | 17.3 | 262 | |
| H29 (8893984) | 20.1 | <0.05 | 2.9 | 0.029 | 1.56 | 8.2 | 15.1 | 0.65 | 344 | 0.57 | 2.08 | 13.3 | 25.9 | 575 | |
| H30 (8893985) | 21.1 | <0.05 | 2.7 | 0.024 | 1.51 | 14.0 | 13.1 | 0.71 | 375 | 0.49 | 2.15 | 6.1 | 31.3 | 526 | |
| H31 (8893986) | 20.8 | <0.05 | 3.3 | 0.027 | 1.69 | 12.8 | 13.5 | 0.71 | 343 | 0.52 | 2.14 | 7.7 | 29.5 | 351 | |
| H32 (8893987) | 20.2 | <0.05 | 3.5 | 0.028 | 1.52 | 11.0 | 20.1 | 0.72 | 380 | 0.69 | 1.80 | 8.1 | 42.8 | 513 | |
| H33 (8893988) | 20.5 | <0.05 | 3.5 | 0.029 | 1.58 | 17.5 | 15.7 | 0.77 | 414 | 0.61 | 1.87 | 7.8 | 34.1 | 403 | |
| H34 (8893989) | 21.3 | <0.05 | 3.9 | 0.033 | 1.57 | 14.8 | 17.6 | 0.90 | 541 | 0.62 | 1.85 | 10.3 | 42.0 | 614 | |
| H35 (8893990) | 22.2 | <0.05 | 3.8 | 0.038 | 1.62 | 15.3 | 19.4 | 0.87 | 504 | 0.73 | 1.76 | 9.0 | 40.3 | 814 | |
| H36 (8893991) | 22.4 | <0.05 | 4.1 | 0.040 | 1.57 | 15.2 | 26.6 | 0.81 | 386 | 1.18 | 1.51 | 11.0 | 45.9 | 1040 | |
| H37 (8893992) | 24.5 | <0.05 | 3.1 | 0.038 | 1.58 | 11.7 | 23.5 | 0.71 | 476 | 0.74 | 1.89 | 9.0 | 28.1 | 1210 | |
| H38 (8893993) | 21.1 | <0.05 | 2.5 | 0.035 | 1.57 | 10.4 | 21.9 | 0.89 | 595 | 0.83 | 1.73 | 9.3 | 44.8 | 889 | |
| H39 (8893994) | 22.1 | <0.05 | 3.8 | 0.032 | 1.60 | 17.8 | 16.8 | 0.77 | 406 | 0.52 | 2.01 | 8.8 | 37.0 | 538 | |
| H40 (8893995) | 22.7 | <0.05 | 3.1 | 0.023 | 1.58 | 12.9 | 12.7 | 0.62 | 314 | 0.44 | 2.17 | 6.3 | 26.5 | 701 | |
| H41 (8893996) | 19.9 | <0.05 | 2.4 | 0.027 | 1.61 | 10.6 | 13.0 | 0.69 | 328 | 0.57 | 2.07 | 7.0 | 30.0 | 469 | |
| H42 (8893997) | 22.2 | <0.05 | 4.0 | 0.033 | 1.49 | 15.2 | 14.9 | 0.73 | 352 | 0.71 | 2.00 | 8.2 | 36.0 | 497 | |
| H43 (8893998) | 23.6 | <0.05 | 3.2 | 0.052 | 1.37 | 18.3 | 32.2 | 0.86 | 506 | 1.56 | 1.38 | 11.0 | 61.6 | 1850 | |
| I1 (8893999) | 20.1 | <0.05 | 1.9 | 0.019 | 1.57 | 8.1 | 12.1 | 0.56 | 278 | 0.40 | 2.15 | 6.2 | 23.4 | 456 | |
| I2 (8894000) | 22.6 | <0.05 | 2.7 | 0.025 | 1.60 | 11.9 | 12.5 | 0.53 | 303 | 1.38 | 2.05 | 6.5 | 21.2 | 782 | |
| I3 (8894001) | 20.4 | <0.05 | 3.0 | 0.027 | 1.68 | 10.6 | 13.6 | 0.47 | 286 | 0.55 | 1.95 | 7.5 | 21.5 | 391 | |
| I4 (8894002) | 21.1 | <0.05 | 3.0 | 0.031 | 1.58 | 14.1 | 19.8 | 0.78 | 384 | 0.77 | 1.80 | 7.2 | 34.6 | 499 | |
| I5 (8894003) | 19.3 | <0.05 | 2.8 | 0.028 | 1.43 | 11.1 | 22.9 | 0.59 | 305 | 0.91 | 1.74 | 6.8 | 31.7 | 446 | |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282584

PROJECT:

5623 McADAM ROAD
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 TEL (905)501-9998
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<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 18, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|-------|-----|-------|------|-----------------------------|------|------|-----|------|--------------------|-----|------|-----|--|
| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P | |
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm | |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 | |
| I6 (8894004) | 20.9 | <0.05 | 2.5 | 0.028 | 1.49 | 10.3 | 16.8 | 0.72 | 337 | 0.73 | 1.94 | 6.2 | 36.4 | 427 | |
| I7 (8894005) | 21.5 | <0.05 | 3.9 | 0.030 | 1.57 | 12.4 | 18.9 | 0.70 | 345 | 0.75 | 1.89 | 7.2 | 30.6 | 528 | |
| I8 (8894006) | 23.1 | <0.05 | 2.7 | 0.036 | 1.53 | 12.6 | 26.1 | 0.64 | 309 | 1.14 | 1.71 | 8.5 | 33.4 | 499 | |
| I9 (8894007) | 21.3 | <0.05 | 2.9 | 0.032 | 1.35 | 12.4 | 25.3 | 0.75 | 384 | 1.06 | 1.59 | 7.8 | 37.2 | 522 | |
| I10 (8894008) | 20.3 | <0.05 | 3.5 | 0.033 | 1.44 | 21.6 | 19.5 | 0.69 | 379 | 0.63 | 1.96 | 7.2 | 49.4 | 486 | |
| I11 (8894009) | 19.2 | <0.05 | 3.4 | 0.031 | 1.45 | 14.1 | 18.9 | 0.76 | 390 | 0.67 | 1.88 | 6.4 | 32.1 | 397 | |
| I12 (8894010) | 20.1 | <0.05 | 3.4 | 0.025 | 1.60 | 12.4 | 16.0 | 0.60 | 298 | 0.76 | 2.04 | 7.0 | 22.8 | 221 | |
| I13 (8894011) | 20.0 | <0.05 | 2.2 | 0.023 | 1.65 | 8.7 | 12.9 | 0.61 | 296 | 0.51 | 2.19 | 5.3 | 24.8 | 375 | |

Certified By:

Certificate of Analysis

AGAT WORK ORDER: 17T282584

PROJECT:

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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 18, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|------|--------|------|------|-----------------------------|-----|-----|-----|------|--------------------|------|------|------|--|
| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl | |
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | |
| RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | 0.01 | |
| G30 (8893940) | 12.3 | 55.5 | <0.002 | 0.04 | 0.16 | 8.3 | 0.9 | 2.0 | 320 | 0.84 | 0.03 | 5.8 | 0.28 | 0.27 | |
| G31 (8893941) | 11.8 | 49.8 | <0.002 | 0.05 | 0.27 | 9.1 | 1.2 | 2.3 | 264 | 0.78 | 0.02 | 4.9 | 0.33 | 0.24 | |
| G32 (8893942) | 11.6 | 61.9 | <0.002 | 0.05 | 0.23 | 10.0 | 1.6 | 1.7 | 276 | 0.71 | 0.02 | 4.3 | 0.28 | 0.29 | |
| G33 (8893943) | 11.1 | 55.2 | <0.002 | 0.04 | 0.13 | 9.6 | 1.0 | 1.8 | 333 | 0.58 | <0.01 | 2.5 | 0.30 | 0.27 | |
| G34 (8893944) | 11.7 | 57.8 | <0.002 | 0.03 | 0.16 | 9.9 | 1.0 | 1.8 | 323 | 0.96 | 0.03 | 10.1 | 0.37 | 0.25 | |
| G35 (8893945) | 10.4 | 54.4 | <0.002 | 0.04 | 0.15 | 7.7 | 1.2 | 1.4 | 280 | 0.52 | 0.02 | 3.7 | 0.25 | 0.26 | |
| G36 (8893946) | 10.5 | 54.8 | <0.002 | 0.04 | 0.24 | 9.1 | 1.4 | 2.1 | 269 | 0.62 | 0.03 | 3.5 | 0.31 | 0.26 | |
| G37 (8893947) | 11.6 | 57.5 | <0.002 | 0.05 | 0.26 | 9.8 | 1.8 | 2.0 | 264 | 0.72 | 0.04 | 3.6 | 0.31 | 0.27 | |
| G38 (8893948) | 12.3 | 64.4 | <0.002 | 0.04 | 0.20 | 9.1 | 1.0 | 2.4 | 292 | 0.60 | 0.02 | 3.9 | 0.28 | 0.30 | |
| G39 (8893949) | 11.5 | 68.5 | <0.002 | 0.03 | 0.18 | 8.2 | 1.3 | 1.6 | 292 | 0.55 | 0.03 | 4.2 | 0.24 | 0.29 | |
| G40 (8893950) | 11.5 | 58.4 | <0.002 | 0.04 | 0.26 | 8.3 | 1.3 | 2.0 | 284 | 0.92 | 0.06 | 4.5 | 0.27 | 0.34 | |
| G41 (8893951) | 12.4 | 54.6 | <0.002 | 0.04 | 0.21 | 8.7 | 1.0 | 2.1 | 288 | 0.76 | 0.03 | 4.1 | 0.31 | 0.31 | |
| G42 (8893952) | 12.3 | 48.3 | <0.002 | 0.04 | 0.21 | 8.8 | 1.5 | 1.9 | 266 | 0.74 | 0.03 | 3.8 | 0.38 | 0.28 | |
| G43 (8893953) | 11.5 | 44.1 | <0.002 | 0.04 | 0.18 | 8.9 | 1.2 | 1.6 | 297 | 0.62 | 0.02 | 3.4 | 0.28 | 0.26 | |
| G44 (8893954) | 19.4 | 43.4 | <0.002 | 0.08 | 0.57 | 9.8 | 1.9 | 2.4 | 248 | 0.64 | 0.12 | 8.6 | 0.35 | 0.25 | |
| G45 (8893955) | 15.9 | 57.2 | <0.002 | 0.04 | 0.44 | 9.4 | 1.7 | 2.4 | 270 | 0.67 | 0.08 | 3.5 | 0.34 | 0.29 | |
| H1 (8893956) | 11.6 | 52.8 | <0.002 | 0.03 | 0.18 | 5.8 | 1.3 | 1.6 | 306 | 0.45 | 0.03 | 1.7 | 0.20 | 0.28 | |
| H2 (8893957) | 11.3 | 51.0 | <0.002 | 0.03 | 0.15 | 7.6 | 1.5 | 1.4 | 322 | 0.48 | 0.04 | 2.1 | 0.21 | 0.26 | |
| H3 (8893958) | 11.1 | 52.7 | <0.002 | 0.02 | 0.10 | 6.8 | 1.0 | 1.2 | 337 | 0.38 | 0.01 | 4.1 | 0.17 | 0.29 | |
| H4 (8893959) | 10.7 | 51.5 | <0.002 | 0.03 | 0.07 | 5.7 | 0.8 | 1.0 | 314 | 0.36 | 0.02 | 2.9 | 0.14 | 0.26 | |
| H5 (8893960) | 11.1 | 51.1 | <0.002 | 0.03 | 0.17 | 6.7 | 1.6 | 1.3 | 326 | 0.39 | 0.05 | 2.6 | 0.19 | 0.27 | |
| H6 (8893961) | 12.1 | 45.0 | <0.002 | 0.04 | 0.24 | 7.1 | 1.1 | 1.4 | 292 | 0.48 | 0.04 | 2.5 | 0.24 | 0.26 | |
| H7 (8893962) | 11.4 | 50.8 | <0.002 | 0.03 | 0.15 | 7.5 | 1.4 | 1.3 | 302 | 0.76 | 0.02 | 3.1 | 0.23 | 0.27 | |
| H8 (8893963) | 12.6 | 49.8 | <0.002 | 0.04 | 0.14 | 7.9 | 1.6 | 1.7 | 288 | 0.55 | 0.06 | 3.7 | 0.27 | 0.28 | |
| H9 (8893964) | 12.6 | 50.6 | <0.002 | 0.04 | 0.23 | 9.6 | 1.9 | 2.1 | 232 | 0.65 | 0.06 | 4.7 | 0.35 | 0.29 | |
| H10 (8893965) | 12.0 | 47.6 | <0.002 | 0.04 | 0.18 | 8.8 | 1.4 | 1.8 | 290 | 0.56 | 0.02 | 3.2 | 0.32 | 0.24 | |
| H11 (8893966) | 11.7 | 46.4 | <0.002 | 0.04 | 0.14 | 7.6 | 1.7 | 1.5 | 300 | 0.47 | 0.05 | 6.0 | 0.25 | 0.27 | |
| H12 (8893967) | 10.3 | 49.8 | <0.002 | 0.03 | 0.10 | 6.3 | 1.4 | 1.1 | 312 | 0.34 | 0.03 | 1.7 | 0.17 | 0.26 | |
| H13 (8893968) | 11.3 | 49.4 | <0.002 | 0.03 | 0.14 | 7.7 | 1.2 | 1.6 | 311 | 0.64 | 0.03 | 3.9 | 0.27 | 0.27 | |
| H14 (8893969) | 11.1 | 49.6 | <0.002 | 0.03 | 0.12 | 7.9 | 1.3 | 1.3 | 345 | 0.41 | 0.03 | 4.3 | 0.22 | 0.24 | |
| H15 (8893970) | 12.4 | 48.9 | <0.002 | 0.03 | 0.16 | 8.3 | 1.4 | 1.7 | 283 | 0.51 | 0.03 | 4.7 | 0.28 | 0.28 | |
| H16 (8893971) | 10.7 | 51.4 | <0.002 | 0.03 | 0.22 | 10.1 | 1.5 | 1.7 | 246 | 0.55 | 0.03 | 4.4 | 0.34 | 0.28 | |

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 17T282584

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 18, 2018

SAMPLE TYPE: Other

| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl |
|---------------|------|------|--------|------|------|------|-----|-----|-----|------|-------|-----|------|------|
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm |
| RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | 0.01 |
| H17 (8893972) | 13.1 | 46.9 | <0.002 | 0.06 | 0.47 | 10.5 | 2.0 | 2.3 | 192 | 1.01 | 0.15 | 5.8 | 0.34 | 0.31 |
| H18 (8893973) | 10.8 | 49.6 | <0.002 | 0.03 | 0.14 | 8.9 | 1.3 | 1.6 | 364 | 0.66 | 0.04 | 4.8 | 0.27 | 0.27 |
| H19 (8893974) | 13.4 | 46.2 | <0.002 | 0.05 | 0.24 | 9.4 | 1.8 | 1.8 | 245 | 0.63 | 0.06 | 5.8 | 0.30 | 0.27 |
| H20 (8893975) | 11.0 | 49.5 | <0.002 | 0.03 | 0.12 | 7.4 | 1.2 | 1.4 | 336 | 0.51 | 0.04 | 2.4 | 0.26 | 0.30 |
| H21 (8893976) | 14.0 | 44.7 | <0.002 | 0.06 | 0.33 | 10.2 | 2.4 | 2.3 | 182 | 0.68 | 0.07 | 4.7 | 0.37 | 0.28 |
| H22 (8893977) | 13.6 | 52.7 | <0.002 | 0.04 | 0.14 | 7.5 | 2.0 | 2.0 | 275 | 0.60 | 0.02 | 3.6 | 0.33 | 0.29 |
| H23 (8893978) | 12.2 | 46.7 | <0.002 | 0.04 | 0.18 | 8.1 | 2.1 | 1.7 | 302 | 0.77 | 0.04 | 4.9 | 0.22 | 0.25 |
| H24 (8893979) | 11.9 | 46.9 | <0.002 | 0.07 | 0.09 | 7.5 | 1.4 | 1.4 | 309 | 0.46 | 0.04 | 2.9 | 0.24 | 0.27 |
| H25 (8893980) | 11.4 | 43.8 | <0.002 | 0.03 | 0.10 | 8.3 | 1.4 | 1.6 | 331 | 0.47 | 0.02 | 4.5 | 0.26 | 0.23 |
| H26 (8893981) | 11.4 | 46.5 | <0.002 | 0.04 | 0.10 | 8.2 | 1.7 | 1.4 | 301 | 0.49 | 0.03 | 6.5 | 0.27 | 0.25 |
| H27 (8893982) | 13.5 | 43.2 | <0.002 | 0.04 | 0.30 | 7.0 | 2.1 | 2.2 | 212 | 0.61 | 0.06 | 4.5 | 0.35 | 0.25 |
| H28 (8893983) | 11.1 | 44.2 | <0.002 | 0.03 | 0.17 | 7.3 | 1.4 | 1.5 | 282 | 0.45 | <0.01 | 5.1 | 0.28 | 0.26 |
| H29 (8893984) | 10.5 | 47.9 | <0.002 | 0.04 | 0.11 | 8.3 | 1.5 | 1.4 | 304 | 0.46 | 0.03 | 2.6 | 0.25 | 0.26 |
| H30 (8893985) | 11.7 | 50.3 | <0.002 | 0.03 | 0.09 | 8.6 | 1.8 | 1.3 | 323 | 0.46 | <0.01 | 5.6 | 0.25 | 0.26 |
| H31 (8893986) | 11.9 | 52.0 | <0.002 | 0.03 | 0.11 | 8.7 | 1.6 | 1.5 | 314 | 0.51 | 0.01 | 4.0 | 0.27 | 0.28 |
| H32 (8893987) | 11.1 | 46.0 | <0.002 | 0.04 | 0.16 | 9.1 | 1.8 | 1.5 | 267 | 0.58 | 0.03 | 3.1 | 0.32 | 0.27 |
| H33 (8893988) | 12.2 | 48.7 | <0.002 | 0.03 | 0.13 | 9.6 | 1.6 | 1.5 | 276 | 0.54 | 0.03 | 5.9 | 0.34 | 0.26 |
| H34 (8893989) | 12.3 | 50.4 | <0.002 | 0.04 | 0.16 | 10.5 | 2.0 | 2.6 | 273 | 1.39 | 0.04 | 6.6 | 0.41 | 0.25 |
| H35 (8893990) | 12.9 | 50.9 | <0.002 | 0.04 | 0.21 | 11.1 | 1.9 | 1.8 | 260 | 0.58 | 0.05 | 5.2 | 0.39 | 0.28 |
| H36 (8893991) | 12.0 | 50.6 | <0.002 | 0.06 | 0.40 | 10.0 | 2.0 | 2.1 | 224 | 1.04 | 0.17 | 6.7 | 0.36 | 0.29 |
| H37 (8893992) | 12.6 | 51.5 | <0.002 | 0.05 | 0.34 | 10.0 | 2.0 | 2.0 | 268 | 0.66 | 0.09 | 4.0 | 0.37 | 0.26 |
| H38 (8893993) | 11.3 | 49.6 | <0.002 | 0.05 | 0.17 | 10.4 | 1.9 | 1.7 | 266 | 0.65 | 0.03 | 3.5 | 0.42 | 0.26 |
| H39 (8893994) | 12.2 | 53.9 | <0.002 | 0.04 | 0.12 | 9.5 | 1.6 | 1.7 | 303 | 0.64 | 0.04 | 5.5 | 0.31 | 0.29 |
| H40 (8893995) | 12.1 | 53.3 | <0.002 | 0.03 | 0.14 | 7.7 | 1.3 | 1.3 | 312 | 0.59 | 0.03 | 5.1 | 0.22 | 0.28 |
| H41 (8893996) | 11.5 | 51.7 | <0.002 | 0.03 | 0.13 | 7.7 | 1.4 | 1.4 | 301 | 0.56 | 0.02 | 3.3 | 0.26 | 0.26 |
| H42 (8893997) | 12.7 | 45.6 | <0.002 | 0.04 | 0.13 | 9.3 | 1.5 | 1.7 | 293 | 0.73 | 0.04 | 5.8 | 0.29 | 0.26 |
| H43 (8893998) | 20.7 | 48.3 | <0.002 | 0.07 | 0.43 | 9.8 | 2.3 | 2.5 | 215 | 0.73 | 0.13 | 7.2 | 0.48 | 0.24 |
| I1 (8893999) | 11.0 | 49.1 | <0.002 | 0.04 | 0.10 | 7.0 | 1.4 | 1.3 | 310 | 0.43 | 0.02 | 2.1 | 0.20 | 0.27 |
| I2 (8894000) | 15.2 | 49.8 | <0.002 | 0.03 | 0.16 | 7.0 | 1.4 | 1.6 | 305 | 0.44 | 0.03 | 3.8 | 0.24 | 0.26 |
| I3 (8894001) | 12.3 | 49.7 | <0.002 | 0.03 | 0.15 | 7.5 | 1.3 | 1.6 | 291 | 0.56 | 0.03 | 3.0 | 0.27 | 0.26 |
| I4 (8894002) | 13.5 | 57.3 | <0.002 | 0.03 | 0.27 | 10.7 | 1.5 | 1.7 | 221 | 0.54 | 0.03 | 5.3 | 0.29 | 0.31 |
| I5 (8894003) | 12.9 | 46.0 | <0.002 | 0.04 | 0.20 | 8.8 | 1.8 | 1.7 | 234 | 0.53 | 0.03 | 3.4 | 0.27 | 0.26 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282584

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
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 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 18, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|------|--------|------|------|-----------------------------|-----|-----|-----|------|--------------------|------|------|------|--|
| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl | |
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | |
| Sample ID (AGAT ID) | RDL: | | | | | | | | | | | | | | |
| I6 (8894004) | 12.3 | 51.3 | <0.002 | 0.03 | 0.17 | 8.7 | 1.7 | 1.5 | 274 | 0.46 | 0.04 | 3.1 | 0.24 | 0.28 | |
| I7 (8894005) | 12.5 | 52.5 | <0.002 | 0.03 | 0.15 | 9.4 | 1.3 | 1.6 | 258 | 0.51 | 0.04 | 4.4 | 0.29 | 0.28 | |
| I8 (8894006) | 13.1 | 50.9 | <0.002 | 0.05 | 0.27 | 8.7 | 1.8 | 1.8 | 256 | 0.54 | 0.03 | 4.1 | 0.31 | 0.30 | |
| I9 (8894007) | 13.6 | 49.7 | <0.002 | 0.05 | 0.26 | 10.4 | 2.1 | 1.8 | 200 | 0.53 | 0.05 | 4.9 | 0.32 | 0.29 | |
| I10 (8894008) | 13.9 | 43.7 | <0.002 | 0.05 | 0.17 | 11.6 | 1.8 | 1.4 | 287 | 0.48 | 0.04 | 5.0 | 0.26 | 0.28 | |
| I11 (8894009) | 12.8 | 47.6 | <0.002 | 0.05 | 0.19 | 9.7 | 1.7 | 1.4 | 248 | 0.48 | 0.03 | 6.4 | 0.28 | 0.28 | |
| I12 (8894010) | 12.4 | 43.8 | <0.002 | 0.04 | 0.20 | 8.5 | 1.4 | 1.6 | 296 | 0.46 | 0.03 | 4.3 | 0.28 | 0.26 | |
| I13 (8894011) | 11.3 | 51.8 | <0.002 | 0.03 | 0.13 | 7.5 | 1.2 | 1.3 | 324 | 0.37 | 0.01 | 13.5 | 0.22 | 0.26 | |

Certified By:



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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 18, 2018

SAMPLE TYPE: Other

| Analyte: | U | V | W | Y | Zn | Zr |
|---------------|-------|------|-----|------|------|------|
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm |
| RDL: | 0.005 | 0.5 | 0.1 | 0.1 | 0.5 | 0.5 |
| G30 (8893940) | 0.860 | 62.4 | 0.5 | 13.5 | 43.7 | 172 |
| G31 (8893941) | 0.832 | 83.1 | 0.6 | 12.7 | 42.1 | 159 |
| G32 (8893942) | 0.946 | 62.3 | 0.5 | 16.3 | 39.0 | 163 |
| G33 (8893943) | 0.620 | 74.0 | 0.4 | 14.2 | 32.2 | 122 |
| G34 (8893944) | 0.841 | 82.6 | 0.4 | 14.1 | 35.6 | 206 |
| G35 (8893945) | 0.679 | 59.4 | 0.3 | 10.3 | 38.8 | 153 |
| G36 (8893946) | 0.895 | 65.5 | 0.5 | 12.4 | 63.5 | 174 |
| G37 (8893947) | 0.906 | 78.0 | 0.5 | 13.6 | 88.8 | 173 |
| G38 (8893948) | 0.767 | 60.7 | 0.4 | 12.0 | 43.9 | 173 |
| G39 (8893949) | 0.734 | 54.9 | 0.4 | 11.4 | 31.0 | 128 |
| G40 (8893950) | 0.763 | 53.1 | 0.5 | 11.9 | 35.9 | 164 |
| G41 (8893951) | 0.817 | 72.8 | 0.5 | 12.4 | 50.1 | 159 |
| G42 (8893952) | 0.894 | 71.1 | 0.5 | 13.1 | 93.3 | 174 |
| G43 (8893953) | 0.800 | 63.7 | 0.4 | 12.7 | 64.7 | 178 |
| G44 (8893954) | 1.11 | 85.7 | 0.5 | 16.0 | 66.6 | 108 |
| G45 (8893955) | 0.999 | 69.5 | 0.6 | 13.7 | 139 | 202 |
| H1 (8893956) | 0.444 | 49.9 | 0.5 | 7.7 | 32.3 | 88.0 |
| H2 (8893957) | 0.543 | 55.5 | 0.3 | 10.2 | 28.7 | 121 |
| H3 (8893958) | 0.713 | 41.3 | 0.2 | 12.3 | 23.0 | 127 |
| H4 (8893959) | 0.392 | 39.6 | 0.2 | 7.1 | 23.4 | 73.1 |
| H5 (8893960) | 0.433 | 46.0 | 0.2 | 10.7 | 27.8 | 82.9 |
| H6 (8893961) | 0.594 | 58.6 | 0.3 | 9.2 | 33.3 | 131 |
| H7 (8893962) | 0.642 | 53.0 | 0.3 | 11.1 | 40.7 | 150 |
| H8 (8893963) | 0.899 | 60.2 | 0.4 | 11.7 | 40.6 | 189 |
| H9 (8893964) | 1.26 | 82.7 | 0.7 | 13.9 | 41.8 | 196 |
| H10 (8893965) | 0.879 | 85.0 | 0.4 | 15.4 | 33.6 | 192 |
| H11 (8893966) | 0.974 | 53.8 | 0.4 | 13.6 | 37.1 | 144 |
| H12 (8893967) | 0.500 | 42.9 | 0.2 | 9.7 | 18.8 | 75.8 |
| H13 (8893968) | 0.838 | 53.4 | 0.4 | 12.2 | 25.4 | 186 |
| H14 (8893969) | 0.658 | 56.4 | 0.3 | 13.8 | 26.4 | 136 |
| H15 (8893970) | 1.00 | 63.9 | 0.4 | 13.3 | 36.2 | 217 |
| H16 (8893971) | 1.12 | 77.1 | 0.5 | 14.5 | 35.9 | 184 |

Certified By:

Certificate of Analysis

AGAT WORK ORDER: 17T282584

PROJECT:

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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 18, 2018

SAMPLE TYPE: Other

| Analyte: | U | V | W | Y | Zn | Zr |
|---------------------|-------|------|-----|------|------|------|
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm |
| Sample ID (AGAT ID) | RDL: | | | | | |
| H17 (8893972) | 1.37 | 92.5 | 0.8 | 15.9 | 45.0 | 186 |
| H18 (8893973) | 0.996 | 53.1 | 0.3 | 14.8 | 27.1 | 187 |
| H19 (8893974) | 1.11 | 71.9 | 0.5 | 14.8 | 45.7 | 195 |
| H20 (8893975) | 0.621 | 47.3 | 0.3 | 10.7 | 23.6 | 146 |
| H21 (8893976) | 1.39 | 110 | 0.8 | 14.4 | 46.7 | 188 |
| H22 (8893977) | 0.870 | 69.6 | 0.4 | 11.6 | 38.9 | 181 |
| H23 (8893978) | 0.878 | 58.5 | 0.3 | 15.0 | 43.6 | 129 |
| H24 (8893979) | 0.686 | 59.7 | 0.3 | 9.5 | 28.0 | 141 |
| H25 (8893980) | 0.611 | 65.6 | 0.2 | 12.0 | 29.0 | 127 |
| H26 (8893981) | 0.811 | 63.0 | 0.3 | 12.6 | 38.2 | 142 |
| H27 (8893982) | 1.12 | 64.2 | 0.6 | 10.9 | 40.7 | 217 |
| H28 (8893983) | 0.853 | 55.8 | 0.4 | 10.2 | 37.3 | 177 |
| H29 (8893984) | 0.664 | 60.7 | 0.3 | 11.2 | 44.6 | 161 |
| H30 (8893985) | 0.746 | 66.7 | 0.3 | 12.9 | 30.5 | 137 |
| H31 (8893986) | 0.824 | 59.2 | 0.4 | 12.7 | 34.9 | 172 |
| H32 (8893987) | 0.809 | 77.2 | 0.4 | 12.4 | 49.5 | 183 |
| H33 (8893988) | 0.863 | 86.0 | 0.4 | 14.6 | 34.5 | 192 |
| H34 (8893989) | 0.979 | 92.0 | 0.4 | 16.7 | 46.8 | 194 |
| H35 (8893990) | 1.09 | 93.6 | 0.5 | 16.3 | 59.2 | 206 |
| H36 (8893991) | 1.20 | 87.3 | 0.8 | 14.0 | 78.7 | 188 |
| H37 (8893992) | 0.996 | 91.8 | 0.5 | 13.4 | 99.0 | 174 |
| H38 (8893993) | 0.831 | 105 | 0.5 | 14.4 | 51.0 | 130 |
| H39 (8893994) | 0.954 | 70.1 | 0.4 | 16.4 | 43.0 | 198 |
| H40 (8893995) | 0.796 | 58.3 | 0.4 | 13.2 | 25.7 | 163 |
| H41 (8893996) | 0.689 | 55.8 | 0.3 | 10.7 | 51.7 | 131 |
| H42 (8893997) | 0.856 | 72.7 | 0.4 | 14.3 | 41.0 | 230 |
| H43 (8893998) | 1.30 | 107 | 0.6 | 16.7 | 85.1 | 167 |
| I1 (8893999) | 0.510 | 49.8 | 0.3 | 9.8 | 36.3 | 98.6 |
| I2 (8894000) | 0.635 | 54.8 | 0.4 | 10.7 | 39.9 | 139 |
| I3 (8894001) | 0.725 | 54.1 | 0.4 | 11.1 | 39.7 | 153 |
| I4 (8894002) | 1.27 | 74.6 | 0.6 | 15.9 | 48.6 | 155 |
| I5 (8894003) | 0.915 | 66.9 | 0.5 | 11.3 | 41.7 | 147 |

Certified By:





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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 18, 2018

SAMPLE TYPE: Other

| Sample ID (AGAT ID) | Analyte: | U | V | W | Y | Zn | Zr |
|---------------------|----------|-------|------|-----|------|------|-----|
| | Unit: | ppm | ppm | ppm | ppm | ppm | ppm |
| | RDL: | 0.005 | 0.5 | 0.1 | 0.1 | 0.5 | 0.5 |
| I6 (8894004) | | 0.774 | 64.6 | 0.4 | 12.1 | 34.2 | 134 |
| I7 (8894005) | | 1.04 | 70.7 | 0.5 | 12.3 | 41.1 | 200 |
| I8 (8894006) | | 1.02 | 76.8 | 0.5 | 11.5 | 53.8 | 142 |
| I9 (8894007) | | 1.19 | 86.7 | 0.9 | 13.7 | 53.4 | 157 |
| I10 (8894008) | | 1.20 | 70.5 | 0.4 | 25.0 | 43.5 | 175 |
| I11 (8894009) | | 1.04 | 74.1 | 0.4 | 11.5 | 44.1 | 175 |
| I12 (8894010) | | 0.884 | 61.8 | 0.4 | 10.6 | 31.5 | 174 |
| I13 (8894011) | | 0.767 | 54.1 | 0.3 | 11.8 | 32.5 | 116 |

Comments: RDL - Reported Detection Limit

8893940-8894011 As, Sb values may be low due to digestion losses.

Certified By:



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| Parameter | REPLICATE #1 | | | | REPLICATE #2 | | | | REPLICATE #3 | | | | REPLICATE #4 | | | |
|-----------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|
| | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD |
| Ag | 8893940 | 0.19 | 0.17 | 11.1% | 8893957 | 0.14 | 0.12 | 15.4% | 8893974 | 0.25 | 0.24 | 4.1% | 8893991 | 0.507 | 0.469 | 7.8% |
| Al | 8893940 | 6.98 | 6.94 | 0.6% | 8893957 | 6.87 | 6.84 | 0.4% | 8893974 | 6.87 | 6.90 | 0.4% | 8893991 | 7.81 | 7.34 | 6.2% |
| As | 8893940 | 4.1 | 3.1 | | 8893957 | 2.4 | 1.1 | | 8893974 | 6.6 | 7.0 | 5.9% | 8893991 | 7.4 | 4.5 | |
| Ba | 8893940 | 509 | 513 | 0.8% | 8893957 | 476 | 498 | 4.5% | 8893974 | 425 | 430 | 1.2% | 8893991 | 474 | 452 | 4.8% |
| Be | 8893940 | 1.29 | 1.16 | 10.6% | 8893957 | 1.36 | 1.30 | 4.5% | 8893974 | 1.32 | 1.35 | 2.2% | 8893991 | 1.55 | 1.44 | 7.4% |
| Bi | 8893940 | 0.099 | 0.091 | 8.4% | 8893957 | 0.085 | 0.070 | 19.4% | 8893974 | 0.173 | 0.155 | 11.0% | 8893991 | 0.177 | 0.171 | 3.4% |
| Ca | 8893940 | 1.47 | 1.47 | 0.0% | 8893957 | 1.50 | 1.43 | 4.8% | 8893974 | 1.43 | 1.42 | 0.7% | 8893991 | 1.26 | 1.25 | 0.8% |
| Cd | 8893940 | 0.08 | 0.08 | 0.0% | 8893957 | 0.05 | 0.05 | 0.0% | 8893974 | 0.09 | 0.09 | 0.0% | 8893991 | 0.083 | 0.093 | 11.4% |
| Ce | 8893940 | 36.1 | 31.3 | 14.2% | 8893957 | 16.3 | 14.7 | 10.3% | 8893974 | 29.3 | 25.9 | 12.3% | 8893991 | 29.9 | 24.0 | 21.9% |
| Co | 8893940 | 10.7 | 10.3 | 3.8% | 8893957 | 13.3 | 11.4 | 15.4% | 8893974 | 19.1 | 18.4 | 3.7% | 8893991 | 24.4 | 23.7 | 2.9% |
| Cr | 8893940 | 60.4 | 57.9 | 4.2% | 8893957 | 53.8 | 44.6 | 18.7% | 8893974 | 74.0 | 74.1 | 0.1% | 8893991 | 84.9 | 81.4 | 4.2% |
| Cs | 8893940 | 1.29 | 1.23 | 4.8% | 8893957 | 1.48 | 1.37 | 7.7% | 8893974 | 2.03 | 1.97 | 3.0% | 8893991 | 2.35 | 2.24 | 4.8% |
| Cu | 8893940 | 3.61 | 3.54 | 2.0% | 8893957 | 4.96 | 4.74 | 4.5% | 8893974 | 16.3 | 16.1 | 1.2% | 8893991 | 14.2 | 12.9 | 9.6% |
| Fe | 8893940 | 2.37 | 2.35 | 0.8% | 8893957 | 2.24 | 1.89 | 16.9% | 8893974 | 3.41 | 3.43 | 0.6% | 8893991 | 3.62 | 3.46 | 4.5% |
| Ga | 8893940 | 19.5 | 18.5 | 5.3% | 8893957 | 19.2 | 18.9 | 1.6% | 8893974 | 21.0 | 20.3 | 3.4% | 8893991 | 22.4 | 22.0 | 1.8% |
| Ge | 8893940 | < 0.05 | < 0.05 | 0.0% | 8893957 | < 0.05 | < 0.05 | 0.0% | 8893974 | < 0.05 | < 0.05 | 0.0% | 8893991 | < 0.05 | < 0.05 | 0.0% |
| Hf | 8893940 | 3.5 | 3.2 | 9.0% | 8893957 | 2.2 | 1.6 | | 8893974 | 3.7 | 3.4 | 8.5% | 8893991 | 4.1 | 3.4 | |
| In | 8893940 | 0.0307 | 0.0301 | 2.0% | 8893957 | 0.0268 | 0.0221 | 19.2% | 8893974 | 0.038 | 0.034 | 11.1% | 8893991 | 0.040 | 0.040 | 0.0% |
| K | 8893940 | 1.62 | 1.61 | 0.6% | 8893957 | 1.57 | 1.64 | 4.4% | 8893974 | 1.40 | 1.41 | 0.7% | 8893991 | 1.57 | 1.47 | 6.6% |
| La | 8893940 | 16.9 | 14.2 | 17.4% | 8893957 | 7.92 | 7.24 | 9.0% | 8893974 | 13.3 | 11.7 | 12.8% | 8893991 | 15.2 | 12.1 | 22.7% |
| Li | 8893940 | 14.7 | 14.9 | 1.4% | 8893957 | 14.9 | 14.0 | 6.2% | 8893974 | 21.8 | 21.7 | 0.5% | 8893991 | 26.6 | 25.4 | 4.6% |
| Mg | 8893940 | 0.59 | 0.58 | 1.7% | 8893957 | 0.686 | 0.647 | 5.9% | 8893974 | 0.73 | 0.73 | 0.0% | 8893991 | 0.811 | 0.792 | 2.4% |
| Mn | 8893940 | 342 | 332 | 3.0% | 8893957 | 344 | 285 | 18.8% | 8893974 | 366 | 367 | 0.3% | 8893991 | 386 | 392 | 1.5% |
| Mo | 8893940 | 0.587 | 0.550 | 6.5% | 8893957 | 0.45 | 0.39 | 14.3% | 8893974 | 0.91 | 0.88 | 3.4% | 8893991 | 1.18 | 1.00 | 16.5% |
| Na | 8893940 | 2.07 | 2.09 | 1.0% | 8893957 | 2.14 | 2.23 | 4.1% | 8893974 | 1.76 | 1.77 | 0.6% | 8893991 | 1.51 | 1.48 | 2.0% |
| Nb | 8893940 | 9.0 | 8.0 | 11.8% | 8893957 | 5.5 | 5.0 | 9.5% | 8893974 | 8.21 | 7.52 | 8.8% | 8893991 | 11.0 | 11.0 | 0.0% |
| Ni | 8893940 | 22.9 | 22.0 | 4.0% | 8893957 | 28.5 | 25.7 | 10.3% | 8893974 | 31.0 | 31.7 | 2.2% | 8893991 | 45.9 | 44.6 | 2.9% |
| P | 8893940 | 466 | 463 | 0.6% | 8893957 | 507 | 441 | 13.9% | 8893974 | 398 | 428 | 7.3% | 8893991 | 1040 | 981 | 5.8% |
| Pb | 8893940 | 12.3 | 11.9 | 3.3% | 8893957 | 11.3 | 10.8 | 4.5% | 8893974 | 13.4 | 12.9 | 3.8% | 8893991 | 12.0 | 11.0 | 8.7% |
| Rb | 8893940 | 55.5 | 52.8 | 5.0% | 8893957 | 51.0 | 51.0 | 0.0% | 8893974 | 46.2 | 44.7 | 3.3% | 8893991 | 50.6 | 47.0 | 7.4% |
| Re | 8893940 | < 0.002 | < 0.002 | 0.0% | 8893957 | < 0.002 | < 0.002 | 0.0% | 8893974 | < 0.002 | < 0.002 | 0.0% | 8893991 | < 0.002 | < 0.002 | 0.0% |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

| | | | | | | | | | | | | | | | | |
|----|---------|-------|-------|-------|---------|-------|-------|-------|---------|-------|-------|-------|---------|-------|-------|-------|
| S | 8893940 | 0.04 | 0.04 | 0.0% | 8893957 | 0.03 | 0.03 | 0.0% | 8893974 | 0.05 | 0.05 | 0.0% | 8893991 | 0.058 | 0.053 | 9.0% |
| Sb | 8893940 | 0.16 | 0.16 | 0.0% | 8893957 | 0.148 | 0.122 | 19.3% | 8893974 | 0.24 | 0.24 | 0.0% | 8893991 | 0.40 | 0.36 | 10.5% |
| Sc | 8893940 | 8.3 | 8.2 | 1.2% | 8893957 | 7.59 | 6.54 | 14.9% | 8893974 | 9.4 | 9.6 | 2.1% | 8893991 | 10.0 | 10.2 | 2.0% |
| Se | 8893940 | 0.92 | 0.98 | 6.3% | 8893957 | 1.46 | 1.10 | 28.1% | 8893974 | 1.84 | 1.54 | 17.8% | 8893991 | 2.03 | 2.12 | 4.3% |
| Sn | 8893940 | 2.0 | 1.7 | 16.2% | 8893957 | 1.4 | 1.3 | 7.4% | 8893974 | 1.8 | 1.7 | 5.7% | 8893991 | 2.1 | 2.0 | 4.9% |
| Sr | 8893940 | 320 | 311 | 2.9% | 8893957 | 322 | 337 | 4.6% | 8893974 | 245 | 242 | 1.2% | 8893991 | 224 | 222 | 0.9% |
| Ta | 8893940 | 0.84 | 0.65 | 25.5% | 8893957 | 0.48 | 0.43 | 11.0% | 8893974 | 0.626 | 0.609 | 2.8% | 8893991 | 1.04 | 1.20 | 14.3% |
| Te | 8893940 | 0.026 | 0.025 | 3.9% | 8893957 | 0.04 | 0.02 | | 8893974 | 0.06 | 0.04 | | 8893991 | 0.17 | 0.12 | |
| Th | 8893940 | 5.8 | 4.8 | 18.9% | 8893957 | 2.1 | 1.7 | 21.1% | 8893974 | 5.8 | 5.0 | 14.8% | 8893991 | 6.7 | 5.9 | 12.7% |
| Ti | 8893940 | 0.280 | 0.274 | 2.2% | 8893957 | 0.21 | 0.18 | 15.4% | 8893974 | 0.30 | 0.30 | 0.0% | 8893991 | 0.356 | 0.347 | 2.6% |
| Tl | 8893940 | 0.27 | 0.27 | 0.0% | 8893957 | 0.261 | 0.266 | 1.9% | 8893974 | 0.27 | 0.27 | 0.0% | 8893991 | 0.290 | 0.255 | 12.8% |
| U | 8893940 | 0.860 | 0.752 | 13.4% | 8893957 | 0.543 | 0.471 | 14.2% | 8893974 | 1.11 | 1.07 | 3.7% | 8893991 | 1.20 | 1.13 | 6.0% |
| V | 8893940 | 62.4 | 62.0 | 0.6% | 8893957 | 55.5 | 47.2 | 16.2% | 8893974 | 71.9 | 75.0 | 4.2% | 8893991 | 87.3 | 85.0 | 2.7% |
| W | 8893940 | 0.46 | 0.42 | 9.1% | 8893957 | 0.30 | 0.26 | 14.3% | 8893974 | 0.5 | 0.5 | 0.0% | 8893991 | 0.76 | 0.69 | 9.7% |
| Y | 8893940 | 13.5 | 11.5 | 16.0% | 8893957 | 10.2 | 8.63 | 16.7% | 8893974 | 14.8 | 13.1 | 12.2% | 8893991 | 14.0 | 13.6 | 2.9% |
| Zn | 8893940 | 43.7 | 43.2 | 1.2% | 8893957 | 28.7 | 25.1 | 13.4% | 8893974 | 45.7 | 46.6 | 2.0% | 8893991 | 78.7 | 73.4 | 7.0% |
| Zr | 8893940 | 172 | 161 | 6.6% | 8893957 | 121 | 55.5 | | 8893974 | 195 | 179 | 8.6% | 8893991 | 188 | 148 | 23.8% |

REPLICATE #5

| Parameter | Sample ID | Original | Replicate | RPD | | | | | | | | | | | | |
|-----------|-----------|----------|-----------|------|--|--|--|--|--|--|--|--|--|--|--|--|
| Ag | 8894008 | 0.40 | 0.25 | | | | | | | | | | | | | |
| Al | 8894008 | 7.75 | 7.59 | 2.1% | | | | | | | | | | | | |
| As | 8894008 | 5.96 | 5.41 | 9.7% | | | | | | | | | | | | |
| Ba | 8894008 | 490 | 487 | 0.6% | | | | | | | | | | | | |
| Be | 8894008 | 1.68 | 1.70 | 1.2% | | | | | | | | | | | | |
| Bi | 8894008 | 0.12 | 0.12 | 0.0% | | | | | | | | | | | | |
| Ca | 8894008 | 1.46 | 1.44 | 1.4% | | | | | | | | | | | | |
| Cd | 8894008 | 0.06 | 0.06 | 0.0% | | | | | | | | | | | | |
| Ce | 8894008 | 116 | 119 | 2.6% | | | | | | | | | | | | |
| Co | 8894008 | 36.4 | 35.4 | 2.8% | | | | | | | | | | | | |
| Cr | 8894008 | 78.1 | 81.1 | 3.8% | | | | | | | | | | | | |
| Cs | 8894008 | 1.57 | 1.54 | 1.9% | | | | | | | | | | | | |
| Cu | 8894008 | 30.5 | 29.8 | 2.3% | | | | | | | | | | | | |
| Fe | 8894008 | 2.77 | 2.78 | 0.4% | | | | | | | | | | | | |
| Ga | 8894008 | 20.3 | 20.2 | 0.5% | | | | | | | | | | | | |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

| | | | | | | | | | | | | | | | | | | | | |
|----|---------|---------|---------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Ge | 8894008 | < 0.05 | < 0.05 | 0.0% | | | | | | | | | | | | | | | | |
| Hf | 8894008 | 3.50 | 3.23 | 8.0% | | | | | | | | | | | | | | | | |
| In | 8894008 | 0.033 | 0.030 | 9.5% | | | | | | | | | | | | | | | | |
| K | 8894008 | 1.44 | 1.45 | 0.7% | | | | | | | | | | | | | | | | |
| La | 8894008 | 21.6 | 23.8 | 9.7% | | | | | | | | | | | | | | | | |
| Li | 8894008 | 19.5 | 18.6 | 4.7% | | | | | | | | | | | | | | | | |
| Mg | 8894008 | 0.690 | 0.697 | 1.0% | | | | | | | | | | | | | | | | |
| Mn | 8894008 | 379 | 379 | 0.0% | | | | | | | | | | | | | | | | |
| Mo | 8894008 | 0.63 | 0.62 | 1.6% | | | | | | | | | | | | | | | | |
| Na | 8894008 | 1.96 | 1.94 | 1.0% | | | | | | | | | | | | | | | | |
| Nb | 8894008 | 7.2 | 6.9 | 4.3% | | | | | | | | | | | | | | | | |
| Ni | 8894008 | 49.4 | 48.1 | 2.7% | | | | | | | | | | | | | | | | |
| P | 8894008 | 486 | 474 | 2.5% | | | | | | | | | | | | | | | | |
| Pb | 8894008 | 13.9 | 13.7 | 1.4% | | | | | | | | | | | | | | | | |
| Rb | 8894008 | 43.7 | 44.0 | 0.7% | | | | | | | | | | | | | | | | |
| Re | 8894008 | < 0.002 | < 0.002 | 0.0% | | | | | | | | | | | | | | | | |
| S | 8894008 | 0.05 | 0.05 | 0.0% | | | | | | | | | | | | | | | | |
| Sb | 8894008 | 0.17 | 0.14 | 19.4% | | | | | | | | | | | | | | | | |
| Sc | 8894008 | 11.6 | 11.4 | 1.7% | | | | | | | | | | | | | | | | |
| Se | 8894008 | 1.78 | 2.26 | 23.8% | | | | | | | | | | | | | | | | |
| Sn | 8894008 | 1.43 | 1.48 | 3.4% | | | | | | | | | | | | | | | | |
| Sr | 8894008 | 287 | 297 | 3.4% | | | | | | | | | | | | | | | | |
| Ta | 8894008 | 0.48 | 0.52 | 8.0% | | | | | | | | | | | | | | | | |
| Te | 8894008 | 0.04 | 0.02 | | | | | | | | | | | | | | | | | |
| Th | 8894008 | 5.0 | 7.6 | | | | | | | | | | | | | | | | | |
| Ti | 8894008 | 0.26 | 0.26 | 0.0% | | | | | | | | | | | | | | | | |
| Tl | 8894008 | 0.28 | 0.27 | 3.6% | | | | | | | | | | | | | | | | |
| U | 8894008 | 1.20 | 1.26 | 4.9% | | | | | | | | | | | | | | | | |
| V | 8894008 | 70.5 | 69.0 | 2.2% | | | | | | | | | | | | | | | | |
| W | 8894008 | 0.4 | 0.4 | 0.0% | | | | | | | | | | | | | | | | |
| Y | 8894008 | 25.0 | 25.3 | 1.2% | | | | | | | | | | | | | | | | |
| Zn | 8894008 | 43.5 | 42.8 | 1.6% | | | | | | | | | | | | | | | | |
| Zr | 8894008 | 175 | 158 | 10.2% | | | | | | | | | | | | | | | | |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| Parameter | CRM #1 (ref.SY-4) | | | | CRM #2 (ref.GTS-2A) | | | | CRM #3 (ref.Till-2) | | | | CRM #4 (ref.SY-4) | | | |
|-----------|-------------------|--------|----------|------------|---------------------|--------|----------|------------|---------------------|--------|----------|------------|-------------------|--------|----------|------------|
| | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits |
| Al | 10.95 | 10.98 | 100% | 90% - 110% | 6.96 | 6.86 | 99% | 90% - 110% | 8.17 | 8.8 | 108% | 90% - 110% | 10.95 | 10.77 | 98% | 90% - 110% |
| As | | | | | 124 | 132 | 106% | 90% - 110% | 26 | 28 | 107% | 90% - 110% | | | | |
| Ba | 340 | 329 | 97% | 90% - 110% | 186 | 177 | 95% | 90% - 110% | 540 | 542 | 100% | 90% - 110% | 340 | 327 | 96% | 90% - 110% |
| Be | 2.6 | 2.8 | 107% | 90% - 110% | | | | | 4.0 | 4 | 99% | 90% - 110% | 2.6 | 2.8 | 107% | 90% - 110% |
| Ca | 5.72 | 5.51 | 96% | 90% - 110% | 4.01 | 3.85 | 96% | 90% - 110% | 0.907 | 0.95 | 105% | 90% - 110% | 5.72 | 5.29 | 92% | 90% - 110% |
| Ce | 122 | 135 | 110% | 90% - 110% | 24 | 24 | 102% | 90% - 110% | 98 | 107 | 109% | 90% - 110% | 122 | 123 | 100% | 90% - 110% |
| Co | 2.8 | 3.1 | 110% | 90% - 110% | | | | | | | | | 2.8 | 3.1 | 110% | 90% - 110% |
| Cr | | | | | | | | | 60.3 | 61.3 | 102% | 90% - 110% | | | | |
| Cs | 1.5 | 1.7 | 113% | 90% - 110% | | | | | 12 | 14 | 116% | 90% - 110% | | | | |
| Cu | 7 | 6 | 80% | 90% - 110% | 88.6 | 83.1 | 94% | 90% - 110% | 150 | 154 | 103% | 90% - 110% | | | | |
| Fe | 4.34 | 4 | 92% | 90% - 110% | 7.56 | 7.06 | 93% | 90% - 110% | 3.77 | 3.83 | 101% | 90% - 110% | 4.34 | 3.96 | 91% | 90% - 110% |
| Ga | 35 | 38 | 108% | 90% - 110% | | | | | | | | | | | | |
| K | 1.37 | 1.36 | 99% | 90% - 110% | 2.021 | 1.918 | 95% | 90% - 110% | | | | | 1.37 | 1.38 | 101% | 90% - 110% |
| La | 58 | 62 | 106% | 90% - 110% | | | | | 44 | 43 | 97% | 90% - 110% | 58 | 59 | 102% | 90% - 110% |
| Li | 37 | 38 | 102% | 90% - 110% | | | | | 47 | 48 | 101% | 90% - 110% | 37 | 40 | 108% | 90% - 110% |
| Mg | 0.325 | 0.311 | 96% | 90% - 110% | 2.412 | 2.427 | 101% | 90% - 110% | 1.10 | 1.16 | 106% | 90% - 110% | 0.325 | 0.312 | 96% | 90% - 110% |
| Mn | | | | | 1510 | 1513 | 100% | 90% - 110% | 780 | 804 | 103% | 90% - 110% | | | | |
| Na | 5.267 | 5.151 | 98% | 90% - 110% | 0.617 | 0.596 | 97% | 90% - 110% | 1.624 | 1.699 | 105% | 90% - 110% | 5.267 | 5.139 | 98% | 90% - 110% |
| Nb | | | | | | | | | 20 | 22 | 111% | 90% - 110% | | | | |
| Ni | 9 | 8 | 91% | 90% - 110% | 77.1 | 70.9 | 92% | 90% - 110% | 32 | 34 | 105% | 90% - 110% | 9 | 8 | 85% | 90% - 110% |
| P | | | | | 892 | 937 | 105% | 90% - 110% | | | | | | | | |
| Pb | 10 | 10 | 100% | 90% - 110% | | | | | 31 | 30 | 95% | 90% - 110% | 10 | 9 | 92% | 90% - 110% |
| Rb | 55 | 55 | 100% | 90% - 110% | | | | | 143 | 159 | 111% | 90% - 110% | 55 | 54 | 99% | 90% - 110% |
| S | | | | | 0.348 | 0.38 | 109% | 90% - 110% | | | | | | | | |
| Sb | | | | | | | | | 0.8 | 0.9 | 116% | 90% - 110% | | | | |
| Sc | 1.1 | 0.8 | 73% | 90% - 110% | | | | | 12 | 13 | 107% | 90% - 110% | | | | |
| Sr | 1191 | 1181 | 99% | 90% - 110% | 92.8 | 84.6 | 91% | 90% - 110% | 144 | 149 | 104% | 90% - 110% | 1191 | 1167 | 98% | 90% - 110% |
| Ta | | | | | | | | | 1.9 | 1.8 | 93% | 90% - 110% | | | | |
| Th | | | | | | | | | 18.4 | 17.6 | 95% | 90% - 110% | 1.4 | 1.2 | 85% | 90% - 110% |
| Ti | 0.172 | 0.164 | 95% | 90% - 110% | | | | | 0.53 | 0.47 | 88% | 90% - 110% | 0.172 | 0.167 | 97% | 90% - 110% |
| U | | | | | | | | | 5.7 | 4.4 | 77% | 90% - 110% | | | | |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

| | | | | | | | | | | | | | | | | |
|---------------------|--------|--------|----------|------------|-----|-----|-----|------------|-----|-----|------|------------|----|----|-----|------------|
| V | 8 | 7 | 88% | 90% - 110% | | | | | 77 | 79 | 102% | 90% - 110% | 8 | 7 | 89% | 90% - 110% |
| W | | | | | | | | | 5 | 5 | 100% | 90% - 110% | | | | |
| Y | | | | | | | | | 40 | 33 | 83% | 90% - 110% | | | | |
| Zn | 93 | 90 | 97% | 90% - 110% | 208 | 198 | 95% | 90% - 110% | 130 | 126 | 97% | 90% - 110% | 93 | 88 | 95% | 90% - 110% |
| CRM #5 (ref.GTS-2A) | | | | | | | | | | | | | | | | |
| Parameter | Expect | Actual | Recovery | Limits | | | | | | | | | | | | |
| Al | 6.96 | 7.22 | 104% | 90% - 110% | | | | | | | | | | | | |
| As | 124 | 134 | 108% | 90% - 110% | | | | | | | | | | | | |
| Ba | 186 | 185 | 99% | 90% - 110% | | | | | | | | | | | | |
| Ca | 4.01 | 4.01 | 100% | 90% - 110% | | | | | | | | | | | | |
| Ce | 24 | 18 | 76% | 90% - 110% | | | | | | | | | | | | |
| Cu | 88.6 | 89.3 | 101% | 90% - 110% | | | | | | | | | | | | |
| Fe | 7.56 | 7.36 | 97% | 90% - 110% | | | | | | | | | | | | |
| K | 2.021 | 2.01 | 99% | 90% - 110% | | | | | | | | | | | | |
| Mg | 2.412 | 2.553 | 106% | 90% - 110% | | | | | | | | | | | | |
| Mn | 1510 | 1583 | 105% | 90% - 110% | | | | | | | | | | | | |
| Na | 0.617 | 0.621 | 101% | 90% - 110% | | | | | | | | | | | | |
| Ni | 77.1 | 72.6 | 94% | 90% - 110% | | | | | | | | | | | | |
| P | 892 | 961 | 108% | 90% - 110% | | | | | | | | | | | | |
| S | 0.348 | 0.383 | 110% | 90% - 110% | | | | | | | | | | | | |
| Sr | 92.8 | 85.3 | 92% | 90% - 110% | | | | | | | | | | | | |
| Zn | 208 | 208 | 100% | 90% - 110% | | | | | | | | | | | | |

Method Summary

CLIENT NAME: CRUZ COBALT CORP.

AGAT WORK ORDER: 17T282584

PROJECT:

ATTENTION TO: Jason Gigliotti, Jim Nelson

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|----------------|---------------|----------------------|----------------------|
| Solid Analysis | | | |
| Ag | MIN-200-12020 | | ICP-MS |
| Al | MIN-200-12020 | | ICP/OES |
| As | MIN-200-12020 | | ICP-MS |
| Ba | MIN-200-12020 | | ICP-MS |
| Be | MIN-200-12020 | | ICP-MS |
| Bi | MIN-200-12020 | | ICP-MS |
| Ca | MIN-200-12020 | | ICP/OES |
| Cd | MIN-200-12020 | | ICP-MS |
| Ce | MIN-200-12020 | | ICP-MS |
| Co | MIN-200-12020 | | ICP-MS |
| Cr | MIN-200-12020 | | ICP/OES |
| Cs | MIN-200-12020 | | ICP-MS |
| Cu | MIN-200-12020 | | ICP-MS |
| Fe | MIN-200-12020 | | ICP/OES |
| Ga | MIN-200-12020 | | ICP-MS |
| Ge | MIN-200-12020 | | ICP-MS |
| Hf | MIN-200-12020 | | ICP-MS |
| In | MIN-200-12020 | | ICP-MS |
| K | MIN-200-12020 | | ICP/OES |
| La | MIN-200-12020 | | ICP-MS |
| Li | MIN-200-12020 | | ICP-MS |
| Mg | MIN-200-12020 | | ICP/OES |
| Mn | MIN-200-12020 | | ICP/OES |
| Mo | MIN-200-12020 | | ICP-MS |
| Na | MIN-200-12020 | | ICP/OES |
| Nb | MIN-200-12020 | | ICP-MS |
| Ni | MIN-200-12020 | | ICP-MS |
| P | MIN-200-12020 | | ICP/OES |
| Pb | MIN-200-12020 | | ICP-MS |
| Rb | MIN-200-12020 | | ICP-MS |
| Re | MIN-200-12020 | | ICP-MS |
| S | MIN-200-12020 | | ICP/OES |
| Sb | MIN-200-12020 | | ICP-MS |
| Sc | MIN-200-12020 | | ICP-MS |
| Se | MIN-200-12020 | | ICP-MS |
| Sn | MIN-200-12020 | | ICP-MS |
| Sr | MIN-200-12020 | | ICP-MS |
| Ta | MIN-200-12020 | | ICP-MS |
| Te | MIN-200-12020 | | ICP-MS |
| Th | MIN-200-12020 | | ICP-MS |
| Ti | MIN-200-12020 | | ICP/OES |
| Tl | MIN-200-12020 | | ICP-MS |
| U | MIN-200-12020 | | ICP-MS |
| V | MIN-200-12020 | | ICP/OES |
| W | MIN-200-12020 | | ICP-MS |
| Y | MIN-200-12020 | | ICP-MS |
| Zn | MIN-200-12020 | | ICP-MS |
| Zr | MIN-200-12020 | | ICP-MS |

CLIENT NAME: CRUZ COBALT CORP.
P.O BOX 10112 1470-701 W. GEORGIA ST
VANCOUVER, BC V7Y 1C6
604-646-6908

ATTENTION TO: Jason Gigliotti, Jim Nelson

PROJECT:

AGAT WORK ORDER: 17T282585

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Jan 08, 2018

PAGES (INCLUDING COVER): 18

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 17T282585

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 08, 2018

SAMPLE TYPE: Other

| Sample ID (AGAT ID) | Analyte: Unit: RDL: | Ag ppm 0.01 | Al % 0.01 | As ppm 0.2 | Ba ppm 1 | Be ppm 0.05 | Bi ppm 0.01 | Ca % 0.01 | Cd ppm 0.02 | Ce ppm 0.01 | Co ppm 0.05 | Cr ppm 0.5 | Cs ppm 0.01 | Cu ppm 0.5 | Fe % 0.01 |
|---------------------|---------------------------|-------------------|-----------------|------------------|----------------|-------------------|-------------------|-----------------|-------------------|-------------------|-------------------|------------------|-------------------|------------------|-----------------|
| I14 (8894013) | | 0.23 | 6.68 | 2.9 | 496 | 1.19 | 0.09 | 1.39 | 0.07 | 29.1 | 11.4 | 57.4 | 1.17 | 11.4 | 2.26 |
| I15 (8894014) | | 0.31 | 6.67 | 3.6 | 462 | 1.27 | 0.13 | 1.31 | 0.07 | 23.5 | 15.2 | 66.9 | 1.42 | 14.1 | 2.95 |
| I16 (8894015) | | 0.23 | 6.44 | 3.4 | 459 | 1.11 | 0.11 | 1.27 | 0.05 | 25.3 | 9.76 | 59.1 | 1.31 | 9.5 | 2.57 |
| I17 (8894016) | | 0.18 | 6.60 | 7.3 | 455 | 1.33 | 0.14 | 1.36 | 0.06 | 27.5 | 14.5 | 61.4 | 1.28 | 9.8 | 2.77 |
| I18 (8894017) | | 0.20 | 6.55 | 10.2 | 435 | 1.21 | 0.20 | 1.25 | 0.12 | 31.9 | 14.9 | 70.1 | 1.69 | 27.8 | 3.19 |
| I19 (8894018) | | 0.20 | 6.40 | 6.6 | 398 | 1.27 | 0.15 | 1.21 | 0.12 | 21.0 | 12.6 | 69.8 | 1.47 | 28.9 | 3.60 |
| I20 (8894019) | | 0.23 | 6.80 | 4.7 | 438 | 1.24 | 0.15 | 1.25 | 0.09 | 24.3 | 10.9 | 65.3 | 1.38 | 10.2 | 2.90 |
| I21 (8894020) | | 0.20 | 6.54 | 7.1 | 419 | 1.16 | 0.15 | 1.30 | 0.12 | 31.8 | 11.0 | 70.9 | 1.39 | 21.8 | 3.68 |
| I22 (8894021) | | 0.19 | 5.92 | 3.5 | 492 | 1.14 | 0.86 | 1.39 | 0.06 | 22.4 | 7.56 | 40.6 | 0.92 | 7.4 | 1.85 |
| I23 (8894022) | | 0.18 | 6.66 | 3.4 | 479 | 1.19 | 0.08 | 1.45 | 0.05 | 27.4 | 10.9 | 53.3 | 1.04 | 8.3 | 2.38 |
| I24 (8894023) | | 0.21 | 6.25 | 3.4 | 508 | 1.11 | 0.09 | 1.43 | 0.08 | 17.5 | 8.50 | 51.5 | 1.13 | 5.7 | 2.29 |
| I25 (8894024) | | 0.31 | 6.17 | 4.9 | 436 | 0.96 | 0.15 | 1.09 | 0.08 | 20.0 | 5.16 | 48.4 | 1.10 | 8.8 | 2.45 |
| I26 (8894025) | | 0.18 | 6.47 | 2.3 | 490 | 1.17 | 0.09 | 1.40 | 0.07 | 20.9 | 9.42 | 59.1 | 1.22 | 4.0 | 2.60 |
| I27 (8894026) | | 0.20 | 6.27 | 1.9 | 444 | 1.07 | 0.07 | 1.47 | 0.05 | 14.2 | 8.61 | 58.1 | 0.95 | 3.8 | 2.69 |
| I28 (8894027) | | 0.20 | 6.58 | 4.3 | 467 | 1.27 | 0.09 | 1.48 | 0.05 | 23.9 | 11.3 | 65.1 | 1.13 | 4.0 | 2.82 |
| I29 (8894028) | | 0.17 | 6.57 | 2.3 | 463 | 1.15 | 0.08 | 1.55 | 0.06 | 22.3 | 11.5 | 69.2 | 1.10 | 7.9 | 2.91 |
| I30 (8894029) | | 0.24 | 5.63 | 1.1 | 514 | 0.93 | 0.08 | 1.34 | 0.05 | 19.4 | 4.80 | 40.8 | 1.04 | 2.6 | 1.75 |
| I31 (8894030) | | 0.13 | 6.53 | 2.5 | 513 | 1.11 | 0.08 | 1.50 | 0.07 | 21.6 | 7.16 | 54.6 | 1.02 | 3.2 | 2.31 |
| I32 (8894031) | | 0.21 | 6.56 | 1.3 | 528 | 1.17 | 0.08 | 1.40 | 0.06 | 20.6 | 8.92 | 54.0 | 1.17 | 4.0 | 2.40 |
| I33 (8894032) | | 0.23 | 6.36 | 1.1 | 527 | 1.17 | 0.07 | 1.37 | 0.04 | 15.0 | 7.89 | 47.1 | 1.05 | 3.6 | 1.95 |
| I34 (8894033) | | 0.19 | 6.42 | 1.9 | 514 | 1.13 | 0.07 | 1.40 | 0.04 | 17.6 | 9.26 | 46.9 | 0.93 | 7.5 | 1.97 |
| I35 (8894034) | | 0.28 | 5.91 | 2.2 | 461 | 0.90 | 0.11 | 1.21 | 0.07 | 30.3 | 9.07 | 55.3 | 1.53 | 10.1 | 2.56 |
| I36 (8894035) | | 0.26 | 6.43 | 4.4 | 489 | 1.15 | 0.16 | 1.36 | 0.13 | 23.7 | 13.0 | 67.5 | 2.00 | 11.2 | 3.17 |
| I37 (8894036) | | 0.15 | 6.00 | 2.3 | 569 | 1.05 | 0.09 | 1.28 | 0.04 | 14.5 | 5.59 | 33.6 | 1.00 | 2.9 | 1.65 |
| I38 (8894037) | | 0.44 | 5.66 | 6.1 | 532 | 0.91 | 0.14 | 1.34 | 0.09 | 21.6 | 6.17 | 43.3 | 1.34 | 6.1 | 2.04 |
| I39 (8894038) | | 0.27 | 6.43 | 4.5 | 517 | 1.12 | 0.12 | 1.42 | 0.10 | 22.3 | 9.36 | 58.4 | 1.25 | 4.8 | 2.48 |
| I40 (8894039) | | 0.61 | 6.35 | 22.5 | 408 | 1.51 | 0.39 | 1.44 | 0.21 | 43.9 | 26.8 | 81.7 | 2.63 | 69.7 | 5.47 |
| J1 (8894040) | | 1.22 | 7.38 | 2.0 | 467 | 1.25 | 2.92 | 1.23 | 0.04 | 17.8 | 9.59 | 56.0 | 1.18 | 4.4 | 2.52 |
| J2 (8894041) | | 0.17 | 6.35 | 2.4 | 521 | 1.23 | 0.07 | 1.40 | 0.03 | 20.6 | 8.80 | 47.1 | 1.03 | 4.6 | 2.01 |
| J3 (8894042) | | 0.19 | 6.66 | 2.0 | 513 | 1.22 | 0.09 | 1.39 | 0.07 | 21.8 | 9.43 | 55.6 | 1.25 | 3.2 | 2.16 |
| J4 (8894043) | | 0.20 | 6.48 | 2.1 | 497 | 1.21 | 0.09 | 1.43 | 0.06 | 21.6 | 10.4 | 58.0 | 1.18 | 3.8 | 2.38 |
| J5 (8894044) | | 0.24 | 7.10 | 3.9 | 458 | 1.28 | 0.10 | 1.41 | 0.06 | 31.8 | 8.39 | 65.0 | 1.04 | 12.8 | 2.76 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282585

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 08, 2018

SAMPLE TYPE: Other

| Sample ID (AGAT ID) | Analyte: Unit: RDL: | Ag ppm 0.01 | Al % 0.01 | As ppm 0.2 | Ba ppm 1 | Be ppm 0.05 | Bi ppm 0.01 | Ca % 0.01 | Cd ppm 0.02 | Ce ppm 0.01 | Co ppm 0.05 | Cr ppm 0.5 | Cs ppm 0.01 | Cu ppm 0.5 | Fe % 0.01 |
|---------------------|---------------------------|-------------------|-----------------|------------------|----------------|-------------------|-------------------|-----------------|-------------------|-------------------|-------------------|------------------|-------------------|------------------|-----------------|
| J6 (8894045) | | 0.18 | 6.25 | 2.1 | 514 | 1.13 | 0.08 | 1.46 | 0.07 | 20.0 | 7.41 | 47.3 | 1.03 | 2.9 | 2.03 |
| J7 (8894046) | | 0.22 | 6.40 | 2.1 | 499 | 1.23 | 0.09 | 1.35 | 0.06 | 25.8 | 8.04 | 51.3 | 1.08 | 3.2 | 2.40 |
| J8 (8894047) | | 0.21 | 6.33 | 3.0 | 481 | 1.05 | 0.08 | 1.38 | 0.10 | 22.3 | 10.1 | 54.2 | 1.06 | 5.6 | 2.18 |
| J9 (8894048) | | 0.19 | 6.11 | 3.9 | 452 | 1.04 | 0.16 | 1.27 | 0.06 | 24.9 | 9.56 | 51.5 | 1.48 | 11.7 | 2.70 |
| J10 (8894049) | | 0.26 | 7.12 | 1.9 | 483 | 1.20 | 0.09 | 1.48 | 0.05 | 21.0 | 10.8 | 63.9 | 1.13 | 5.5 | 2.57 |
| J11 (8894050) | | 0.15 | 6.20 | 2.7 | 503 | 1.18 | 0.08 | 1.37 | 0.05 | 16.6 | 7.35 | 45.1 | 1.06 | 3.7 | 1.92 |
| J12 (8894051) | | 0.14 | 6.49 | 2.4 | 513 | 1.23 | 0.08 | 1.36 | 0.06 | 19.6 | 8.72 | 55.6 | 1.07 | 3.5 | 2.26 |
| J13 (8894052) | | 0.23 | 6.81 | 2.1 | 507 | 1.20 | 0.08 | 1.57 | 0.05 | 21.1 | 9.67 | 65.8 | 1.15 | 3.6 | 2.24 |
| J14 (8894053) | | 0.12 | 6.48 | 3.4 | 547 | 1.26 | 0.10 | 1.35 | 0.04 | 24.1 | 8.66 | 54.3 | 1.12 | 12.0 | 2.12 |
| J15 (8894054) | | 0.13 | 6.20 | 5.4 | 501 | 1.36 | 0.11 | 1.53 | 0.07 | 38.4 | 7.70 | 56.6 | 1.22 | 20.3 | 2.03 |
| J16 (8894055) | | 0.14 | 6.62 | 4.9 | 514 | 1.31 | 0.10 | 1.49 | 0.05 | 29.3 | 13.1 | 62.0 | 1.13 | 11.2 | 2.52 |
| J17 (8894056) | | 0.21 | 6.26 | 2.7 | 505 | 1.31 | 0.09 | 1.47 | 0.06 | 39.1 | 8.30 | 55.0 | 1.08 | 12.2 | 2.11 |
| J18 (8894057) | | 0.25 | 6.83 | 4.9 | 448 | 1.30 | 0.15 | 1.26 | 0.08 | 19.3 | 11.6 | 74.6 | 1.58 | 11.1 | 4.01 |
| J19 (8894058) | | 0.21 | 6.27 | 0.7 | 504 | 1.19 | 0.08 | 1.37 | 0.07 | 19.3 | 7.72 | 48.6 | 1.00 | 2.5 | 1.97 |
| J20 (8894059) | | 0.11 | 6.44 | 1.2 | 504 | 1.15 | 0.07 | 1.38 | 0.06 | 16.3 | 7.91 | 45.3 | 0.97 | 3.7 | 2.03 |
| J21 (8894060) | | 0.21 | 5.98 | 5.5 | 440 | 1.33 | 0.12 | 1.52 | 0.10 | 33.8 | 9.67 | 76.3 | 1.17 | 4.8 | 3.67 |
| J22 (8894061) | | 0.14 | 6.56 | 1.5 | 492 | 1.20 | 0.09 | 1.45 | 0.05 | 17.5 | 8.54 | 60.4 | 1.06 | 5.2 | 2.84 |
| J23 (8894062) | | 0.13 | 6.59 | 2.1 | 529 | 1.34 | 0.08 | 1.35 | 0.06 | 18.2 | 8.60 | 50.5 | 1.13 | 5.2 | 2.10 |
| J24 (8894063) | | 0.41 | 6.64 | 1.7 | 497 | 1.20 | 0.10 | 1.41 | 0.06 | 19.0 | 8.64 | 56.8 | 1.14 | 4.2 | 2.43 |
| J25 (8894064) | | 0.16 | 6.50 | 3.1 | 459 | 1.22 | 0.09 | 1.75 | 0.06 | 37.4 | 10.5 | 77.1 | 1.01 | 7.3 | 3.13 |
| J26 (8894065) | | 0.18 | 6.71 | 1.9 | 505 | 1.26 | 0.09 | 1.34 | 0.06 | 22.2 | 10.5 | 76.0 | 1.36 | 7.6 | 2.55 |
| J27 (8894066) | | 0.20 | 7.00 | 2.5 | 491 | 1.22 | 0.09 | 1.28 | 0.07 | 25.2 | 11.1 | 76.0 | 1.37 | 7.9 | 2.84 |
| J28 (8894067) | | 0.21 | 6.56 | 1.9 | 491 | 1.15 | 0.09 | 1.46 | 0.06 | 22.1 | 9.82 | 61.3 | 1.21 | 7.9 | 2.80 |
| J29 (8894068) | | 0.28 | 6.98 | 1.7 | 407 | 1.29 | 0.10 | 1.74 | 0.10 | 27.6 | 11.0 | 104 | 1.06 | 7.3 | 4.07 |
| J30 (8894069) | | 0.14 | 6.70 | 1.8 | 482 | 1.26 | 0.08 | 1.45 | 0.05 | 18.0 | 9.61 | 48.7 | 1.03 | 4.3 | 2.30 |
| J31 (8894070) | | 0.14 | 6.54 | 2.7 | 479 | 1.30 | 0.08 | 1.61 | 0.05 | 17.1 | 10.7 | 58.1 | 1.06 | 5.3 | 2.62 |
| J32 (8894071) | | 0.24 | 6.36 | 1.5 | 500 | 1.23 | 0.08 | 1.56 | 0.08 | 19.1 | 8.76 | 63.1 | 1.08 | 4.6 | 2.43 |
| J33 (8894072) | | 0.16 | 6.80 | 1.6 | 468 | 1.38 | 0.09 | 1.54 | 0.06 | 21.4 | 10.2 | 71.8 | 1.10 | 4.5 | 3.04 |
| K1 (8894073) | | 0.19 | 6.59 | 1.7 | 505 | 1.27 | 0.08 | 1.55 | 0.08 | 21.3 | 9.72 | 54.7 | 1.14 | 3.9 | 2.37 |
| K2 (8894074) | | 0.16 | 6.59 | 2.5 | 530 | 1.22 | 0.09 | 1.49 | 0.09 | 20.4 | 9.27 | 49.3 | 1.37 | 6.3 | 2.52 |
| K3 (8894075) | | 0.25 | 6.25 | 2.3 | 516 | 1.13 | 0.09 | 1.43 | 0.13 | 23.9 | 9.12 | 57.1 | 1.34 | 3.7 | 2.21 |
| K4 (8894076) | | 0.19 | 6.81 | 3.0 | 437 | 1.32 | 0.10 | 1.56 | 0.11 | 32.5 | 12.1 | 88.8 | 1.15 | 4.9 | 3.78 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282585

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
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 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | DATE REPORTED: Jan 08, 2018 | | | SAMPLE TYPE: Other | | | | | | | |
|----------------------------|-----------------------------|------|------|-----------------------------|------|------|--------------------|------|------|------|------|------|------|------|
| Analyte: | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs | Cu | Fe |
| Unit: | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % |
| RDL: | 0.01 | 0.01 | 0.2 | 1 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.05 | 0.5 | 0.01 | 0.5 | 0.01 |
| K5 (8894077) | 0.24 | 6.00 | 1.0 | 491 | 1.22 | 0.07 | 1.44 | 0.10 | 18.7 | 7.58 | 52.4 | 1.17 | 3.6 | 2.13 |
| K6 (8894078) | 0.56 | 7.00 | 2.8 | 482 | 1.19 | 0.11 | 1.41 | 0.11 | 26.8 | 11.1 | 67.4 | 1.48 | 8.9 | 3.03 |
| K7 (8894079) | 0.12 | 5.90 | 2.8 | 453 | 1.13 | 0.09 | 1.54 | 0.06 | 28.1 | 13.9 | 75.5 | 1.11 | 4.9 | 3.24 |
| K8 (8894080) | 0.09 | 5.97 | 2.6 | 479 | 1.24 | 0.15 | 1.51 | 0.05 | 16.8 | 7.31 | 49.0 | 1.03 | 5.9 | 2.42 |
| K9 (8894081) | 0.17 | 6.19 | 1.5 | 529 | 1.24 | 0.10 | 1.11 | 0.04 | 31.0 | 8.08 | 51.7 | 1.51 | 8.1 | 2.17 |
| K10 (8894082) | 0.32 | 7.54 | 15.3 | 433 | 1.64 | 0.38 | 1.07 | 0.15 | 79.0 | 32.9 | 124 | 3.02 | 81.3 | 5.22 |
| K11 (8894083) | 0.26 | 7.01 | 3.5 | 483 | 1.27 | 0.12 | 1.37 | 0.07 | 23.0 | 13.2 | 67.5 | 1.53 | 6.2 | 3.06 |
| K12 (8894084) | 0.30 | 7.19 | 2.3 | 512 | 1.42 | 0.10 | 1.30 | 0.08 | 30.4 | 12.6 | 81.4 | 1.52 | 8.7 | 2.64 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282585

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
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TEL (905)501-9998
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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 08, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|-------|-----|-------|------|-----------------------------|------|------|-----|------|--------------------|-----|------|------|--|
| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P | |
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm | |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 | |
| I14 (8894013) | 14.5 | <0.05 | 2.7 | 0.024 | 1.53 | 11.6 | 13.5 | 0.67 | 278 | 0.46 | 1.99 | 5.4 | 30.5 | 348 | |
| I15 (8894014) | 14.5 | <0.05 | 2.3 | 0.032 | 1.40 | 10.1 | 20.7 | 0.68 | 331 | 0.76 | 1.83 | 5.4 | 39.2 | 374 | |
| I16 (8894015) | 14.5 | <0.05 | 2.8 | 0.028 | 1.48 | 12.3 | 18.4 | 0.53 | 260 | 0.69 | 1.74 | 6.0 | 25.2 | 444 | |
| I17 (8894016) | 14.1 | <0.05 | 2.7 | 0.030 | 1.43 | 12.4 | 20.0 | 0.59 | 325 | 0.61 | 1.85 | 5.8 | 33.1 | 464 | |
| I18 (8894017) | 14.3 | <0.05 | 2.2 | 0.032 | 1.42 | 12.1 | 21.7 | 0.81 | 419 | 0.50 | 1.82 | 4.9 | 39.0 | 533 | |
| I19 (8894018) | 14.1 | <0.05 | 2.7 | 0.038 | 1.32 | 9.8 | 24.2 | 0.69 | 337 | 0.79 | 1.62 | 5.7 | 32.5 | 709 | |
| I20 (8894019) | 15.1 | <0.05 | 2.8 | 0.033 | 1.36 | 11.8 | 21.8 | 0.55 | 272 | 0.70 | 1.74 | 5.7 | 30.3 | 855 | |
| I21 (8894020) | 14.8 | <0.05 | 2.7 | 0.036 | 1.34 | 16.7 | 19.7 | 0.65 | 309 | 0.89 | 1.70 | 6.0 | 31.1 | 546 | |
| I22 (8894021) | 13.3 | <0.05 | 2.0 | 0.019 | 1.53 | 9.4 | 9.6 | 0.55 | 293 | 0.34 | 2.18 | 4.1 | 21.0 | 368 | |
| I23 (8894022) | 13.9 | <0.05 | 1.9 | 0.024 | 1.53 | 11.4 | 13.5 | 0.63 | 318 | 0.45 | 2.14 | 4.3 | 27.7 | 455 | |
| I24 (8894023) | 14.4 | <0.05 | 1.8 | 0.025 | 1.51 | 8.4 | 14.2 | 0.54 | 307 | 0.48 | 2.07 | 4.5 | 21.7 | 505 | |
| I25 (8894024) | 15.5 | <0.05 | 2.8 | 0.031 | 1.31 | 10.0 | 18.9 | 0.41 | 234 | 0.67 | 1.52 | 6.6 | 14.9 | 573 | |
| I26 (8894025) | 14.3 | <0.05 | 2.5 | 0.028 | 1.51 | 9.9 | 15.6 | 0.56 | 416 | 0.52 | 1.98 | 5.2 | 21.6 | 878 | |
| I27 (8894026) | 13.9 | <0.05 | 1.4 | 0.024 | 1.39 | 6.7 | 13.0 | 0.64 | 363 | 0.38 | 2.06 | 4.6 | 26.2 | 546 | |
| I28 (8894027) | 14.9 | <0.05 | 2.3 | 0.033 | 1.46 | 11.5 | 15.8 | 0.68 | 355 | 0.48 | 2.00 | 5.8 | 29.1 | 523 | |
| I29 (8894028) | 13.8 | <0.05 | 3.0 | 0.026 | 1.49 | 10.0 | 14.4 | 0.79 | 423 | 0.43 | 1.98 | 5.3 | 35.2 | 499 | |
| I30 (8894029) | 13.8 | <0.05 | 2.6 | 0.020 | 1.55 | 9.6 | 9.6 | 0.45 | 285 | 0.38 | 1.99 | 4.9 | 14.7 | 210 | |
| I31 (8894030) | 14.8 | <0.05 | 2.4 | 0.026 | 1.51 | 11.2 | 12.5 | 0.55 | 324 | 0.35 | 2.13 | 5.1 | 22.1 | 398 | |
| I32 (8894031) | 14.6 | <0.05 | 2.6 | 0.024 | 1.63 | 10.2 | 14.6 | 0.56 | 301 | 0.56 | 2.02 | 5.2 | 25.7 | 387 | |
| I33 (8894032) | 14.2 | <0.05 | 1.6 | 0.021 | 1.57 | 7.0 | 12.1 | 0.58 | 255 | 0.32 | 2.16 | 4.0 | 25.7 | 263 | |
| I34 (8894033) | 13.3 | <0.05 | 1.9 | 0.022 | 1.57 | 7.8 | 11.9 | 0.61 | 285 | 0.53 | 2.21 | 4.5 | 28.6 | 376 | |
| I35 (8894034) | 14.2 | <0.05 | 2.1 | 0.027 | 1.42 | 15.0 | 21.0 | 0.58 | 283 | 0.62 | 1.69 | 5.4 | 26.4 | 585 | |
| I36 (8894035) | 15.5 | <0.05 | 2.3 | 0.034 | 1.57 | 10.2 | 24.8 | 0.68 | 415 | 0.76 | 1.67 | 6.1 | 34.9 | 1240 | |
| I37 (8894036) | 14.9 | <0.05 | 1.9 | 0.017 | 1.72 | 6.9 | 9.7 | 0.41 | 244 | 0.28 | 2.25 | 3.7 | 13.8 | 562 | |
| I38 (8894037) | 15.0 | <0.05 | 2.8 | 0.026 | 1.69 | 10.6 | 13.9 | 0.49 | 294 | 0.60 | 1.88 | 5.7 | 17.4 | 522 | |
| I39 (8894038) | 15.5 | <0.05 | 2.5 | 0.026 | 1.50 | 10.7 | 16.3 | 0.64 | 325 | 0.56 | 1.89 | 6.3 | 30.4 | 535 | |
| I40 (8894039) | 15.2 | <0.05 | 2.4 | 0.062 | 1.41 | 18.5 | 31.5 | 1.00 | 703 | 1.23 | 1.43 | 9.2 | 55.9 | 2300 | |
| J1 (8894040) | 14.3 | <0.05 | 2.8 | 0.030 | 1.49 | 8.6 | 16.9 | 0.50 | 233 | 0.53 | 1.85 | 5.4 | 24.0 | 347 | |
| J2 (8894041) | 13.5 | <0.05 | 2.2 | 0.021 | 1.63 | 8.7 | 12.2 | 0.58 | 287 | 0.29 | 2.14 | 4.0 | 27.2 | 414 | |
| J3 (8894042) | 14.3 | <0.05 | 2.8 | 0.027 | 1.62 | 9.6 | 14.5 | 0.60 | 275 | 0.41 | 2.01 | 5.7 | 27.7 | 489 | |
| J4 (8894043) | 14.6 | <0.05 | 2.9 | 0.024 | 1.59 | 10.1 | 13.0 | 0.64 | 354 | 0.43 | 2.03 | 5.5 | 27.6 | 567 | |
| J5 (8894044) | 13.8 | <0.05 | 2.7 | 0.030 | 1.44 | 14.3 | 14.0 | 0.60 | 299 | 0.74 | 1.93 | 5.1 | 24.9 | 909 | |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282585

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 08, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|-------|-----|-------|------|-----------------------------|------|------|-----|------|--------------------|-----|------|------|--|
| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P | |
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm | |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 | |
| J6 (8894045) | 14.0 | <0.05 | 3.0 | 0.021 | 1.63 | 9.8 | 11.8 | 0.53 | 313 | 0.33 | 2.13 | 4.6 | 21.8 | 486 | |
| J7 (8894046) | 15.7 | <0.05 | 2.1 | 0.024 | 1.59 | 11.9 | 12.7 | 0.52 | 302 | 0.43 | 2.02 | 5.1 | 21.6 | 494 | |
| J8 (8894047) | 13.3 | <0.05 | 2.1 | 0.025 | 1.56 | 9.2 | 12.3 | 0.66 | 333 | 0.37 | 2.00 | 4.8 | 25.7 | 558 | |
| J9 (8894048) | 15.5 | <0.05 | 2.9 | 0.027 | 1.47 | 10.6 | 18.9 | 0.60 | 343 | 0.56 | 1.77 | 5.7 | 24.9 | 822 | |
| J10 (8894049) | 14.7 | <0.05 | 2.2 | 0.025 | 1.50 | 10.6 | 16.1 | 0.71 | 311 | 0.53 | 2.06 | 6.1 | 33.9 | 477 | |
| J11 (8894050) | 14.2 | <0.05 | 2.0 | 0.021 | 1.60 | 7.5 | 10.9 | 0.57 | 264 | 0.39 | 2.14 | 3.8 | 22.1 | 344 | |
| J12 (8894051) | 14.5 | <0.05 | 1.7 | 0.021 | 1.56 | 10.4 | 14.1 | 0.56 | 310 | 0.39 | 2.07 | 4.1 | 26.6 | 491 | |
| J13 (8894052) | 14.5 | <0.05 | 2.4 | 0.023 | 1.60 | 9.3 | 12.2 | 0.69 | 317 | 0.45 | 2.22 | 5.6 | 27.4 | 303 | |
| J14 (8894053) | 14.7 | <0.05 | 1.6 | 0.020 | 1.64 | 9.9 | 13.4 | 0.62 | 289 | 0.41 | 2.28 | 3.6 | 26.4 | 247 | |
| J15 (8894054) | 14.9 | <0.05 | 2.9 | 0.026 | 1.64 | 33.6 | 12.9 | 0.66 | 366 | 0.40 | 2.16 | 4.7 | 24.1 | 297 | |
| J16 (8894055) | 14.6 | <0.05 | 2.1 | 0.026 | 1.59 | 9.4 | 14.0 | 0.65 | 326 | 0.47 | 2.16 | 4.7 | 31.5 | 408 | |
| J17 (8894056) | 14.8 | <0.05 | 2.3 | 0.021 | 1.64 | 22.6 | 10.6 | 0.62 | 373 | 0.45 | 2.22 | 4.4 | 24.3 | 372 | |
| J18 (8894057) | 16.2 | <0.05 | 2.4 | 0.036 | 1.43 | 9.7 | 22.4 | 0.69 | 337 | 0.82 | 1.80 | 6.2 | 31.5 | 571 | |
| J19 (8894058) | 14.3 | <0.05 | 1.8 | 0.019 | 1.58 | 8.0 | 10.7 | 0.56 | 253 | 0.39 | 2.18 | 3.8 | 20.6 | 248 | |
| J20 (8894059) | 13.8 | <0.05 | 1.4 | 0.020 | 1.55 | 7.1 | 11.7 | 0.55 | 244 | 0.34 | 2.19 | 3.5 | 22.7 | 457 | |
| J21 (8894060) | 16.6 | <0.05 | 3.0 | 0.034 | 1.39 | 16.5 | 15.4 | 0.66 | 459 | 0.50 | 1.94 | 6.5 | 21.6 | 839 | |
| J22 (8894061) | 16.1 | <0.05 | 1.5 | 0.026 | 1.59 | 8.2 | 13.0 | 0.63 | 397 | 0.32 | 2.13 | 4.5 | 21.5 | 2410 | |
| J23 (8894062) | 14.5 | <0.05 | 1.9 | 0.019 | 1.67 | 8.7 | 12.8 | 0.64 | 272 | 0.31 | 2.16 | 5.7 | 27.9 | 362 | |
| J24 (8894063) | 15.1 | <0.05 | 1.6 | 0.024 | 1.52 | 9.3 | 16.5 | 0.63 | 314 | 0.38 | 2.08 | 4.5 | 27.0 | 563 | |
| J25 (8894064) | 14.8 | <0.05 | 3.0 | 0.028 | 1.46 | 17.3 | 14.5 | 0.81 | 501 | 0.45 | 2.17 | 6.3 | 34.4 | 726 | |
| J26 (8894065) | 15.1 | <0.05 | 2.3 | 0.027 | 1.60 | 10.5 | 17.9 | 0.69 | 305 | 0.52 | 1.93 | 5.8 | 34.8 | 380 | |
| J27 (8894066) | 15.1 | <0.05 | 1.8 | 0.028 | 1.59 | 11.0 | 18.7 | 0.75 | 331 | 0.44 | 1.87 | 5.7 | 38.5 | 494 | |
| J28 (8894067) | 15.2 | <0.05 | 2.6 | 0.027 | 1.55 | 10.1 | 15.3 | 0.69 | 353 | 0.37 | 2.04 | 5.1 | 31.6 | 558 | |
| J29 (8894068) | 14.6 | <0.05 | 3.2 | 0.030 | 1.24 | 12.7 | 17.4 | 0.77 | 564 | 0.51 | 1.90 | 6.6 | 29.0 | 1020 | |
| J30 (8894069) | 14.6 | <0.05 | 1.6 | 0.023 | 1.49 | 8.5 | 13.9 | 0.65 | 308 | 0.36 | 2.18 | 4.7 | 26.9 | 534 | |
| J31 (8894070) | 15.0 | <0.05 | 1.9 | 0.026 | 1.46 | 7.7 | 13.8 | 0.71 | 370 | 0.31 | 2.22 | 4.3 | 30.2 | 529 | |
| J32 (8894071) | 14.4 | <0.05 | 2.3 | 0.023 | 1.54 | 8.8 | 12.9 | 0.66 | 332 | 0.35 | 2.23 | 4.8 | 25.5 | 509 | |
| J33 (8894072) | 14.9 | <0.05 | 2.5 | 0.026 | 1.48 | 9.8 | 15.8 | 0.71 | 389 | 0.36 | 2.12 | 5.3 | 27.3 | 471 | |
| K1 (8894073) | 15.2 | <0.05 | 2.3 | 0.026 | 1.56 | 10.2 | 13.4 | 0.70 | 345 | 0.46 | 2.11 | 5.3 | 30.8 | 541 | |
| K2 (8894074) | 15.6 | <0.05 | 2.4 | 0.023 | 1.65 | 9.7 | 15.0 | 0.67 | 342 | 0.44 | 2.09 | 5.3 | 29.5 | 556 | |
| K3 (8894075) | 15.6 | <0.05 | 2.4 | 0.027 | 1.68 | 10.8 | 12.5 | 0.62 | 392 | 0.39 | 1.98 | 6.2 | 24.8 | 310 | |
| K4 (8894076) | 15.6 | <0.05 | 4.1 | 0.035 | 1.42 | 15.0 | 15.7 | 0.73 | 510 | 0.61 | 1.85 | 7.2 | 30.5 | 1000 | |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282585

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 08, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|-------|-----|-------|------|-----------------------------|------|------|-----|------|--------------------|-----|------|------|--|
| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P | |
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm | |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 | |
| K5 (8894077) | 14.9 | <0.05 | 2.6 | 0.022 | 1.55 | 8.9 | 10.4 | 0.60 | 339 | 0.42 | 2.04 | 4.6 | 21.2 | 278 | |
| K6 (8894078) | 15.4 | <0.05 | 3.2 | 0.033 | 1.53 | 13.0 | 18.5 | 0.63 | 369 | 0.67 | 1.82 | 7.1 | 29.1 | 579 | |
| K7 (8894079) | 15.8 | <0.05 | 1.7 | 0.026 | 1.49 | 12.4 | 11.7 | 0.66 | 676 | 0.41 | 2.07 | 5.9 | 21.2 | 1260 | |
| K8 (8894080) | 14.6 | <0.05 | 1.8 | 0.022 | 1.54 | 7.8 | 11.6 | 0.66 | 362 | 0.44 | 2.19 | 4.8 | 21.0 | 301 | |
| K9 (8894081) | 16.1 | <0.05 | 2.6 | 0.025 | 1.80 | 14.3 | 16.2 | 0.58 | 232 | 0.59 | 1.72 | 6.5 | 25.7 | 274 | |
| K10 (8894082) | 15.3 | <0.05 | 2.6 | 0.053 | 1.80 | 13.2 | 31.7 | 1.10 | 704 | 1.52 | 1.12 | 8.7 | 72.8 | 1470 | |
| K11 (8894083) | 16.1 | <0.05 | 2.4 | 0.033 | 1.54 | 11.4 | 20.2 | 0.69 | 351 | 0.69 | 1.78 | 7.2 | 37.1 | 538 | |
| K12 (8894084) | 15.4 | <0.05 | 2.5 | 0.029 | 1.73 | 14.1 | 20.5 | 0.79 | 294 | 0.40 | 1.88 | 6.9 | 44.0 | 584 | |

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AGAT WORK ORDER: 17T282585

PROJECT:

5623 McADAM ROAD
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<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 08, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|------|--------|------|------|-----------------------------|------|-----|-----|------|--------------------|-----|------|------|--|
| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl | |
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | |
| RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | 0.01 | |
| I14 (8894013) | 12.1 | 44.0 | <0.002 | 0.04 | 0.13 | 8.6 | 0.9 | 0.9 | 263 | 0.40 | <0.01 | 3.3 | 0.24 | 0.26 | |
| I15 (8894014) | 12.4 | 45.7 | <0.002 | 0.03 | 0.22 | 8.7 | 0.9 | 1.1 | 229 | 0.38 | 0.01 | 4.1 | 0.27 | 0.24 | |
| I16 (8894015) | 11.8 | 43.9 | <0.002 | 0.04 | 0.19 | 8.0 | 0.7 | 1.0 | 217 | 0.42 | 0.02 | 3.9 | 0.28 | 0.25 | |
| I17 (8894016) | 12.6 | 44.5 | <0.002 | 0.04 | 0.40 | 8.3 | 0.8 | 1.1 | 236 | 0.38 | 0.03 | 4.4 | 0.26 | 0.23 | |
| I18 (8894017) | 12.4 | 48.9 | <0.002 | 0.04 | 0.32 | 9.5 | 0.8 | 1.1 | 196 | 0.37 | 0.02 | 4.9 | 0.27 | 0.25 | |
| I19 (8894018) | 11.4 | 40.7 | <0.002 | 0.05 | 0.28 | 9.3 | 0.8 | 1.1 | 194 | 0.39 | 0.02 | 4.3 | 0.27 | 0.24 | |
| I20 (8894019) | 12.2 | 41.9 | <0.002 | 0.05 | 0.23 | 8.1 | 0.8 | 1.2 | 218 | 0.39 | 0.03 | 4.4 | 0.27 | 0.24 | |
| I21 (8894020) | 12.4 | 40.6 | <0.002 | 0.05 | 0.27 | 9.7 | 1.0 | 1.1 | 209 | 0.43 | 0.03 | 5.3 | 0.30 | 0.24 | |
| I22 (8894021) | 10.8 | 47.1 | <0.002 | 0.03 | 0.16 | 6.9 | 0.6 | 0.9 | 270 | 0.29 | <0.01 | 2.8 | 0.20 | 0.25 | |
| I23 (8894022) | 11.0 | 45.7 | <0.002 | 0.03 | 0.62 | 8.2 | 0.6 | 0.9 | 283 | 0.29 | <0.01 | 3.0 | 0.24 | 0.24 | |
| I24 (8894023) | 10.8 | 45.8 | <0.002 | 0.03 | 0.26 | 7.5 | 0.6 | 0.9 | 270 | 0.31 | <0.01 | 2.6 | 0.24 | 0.23 | |
| I25 (8894024) | 12.9 | 39.0 | <0.002 | 0.05 | 0.27 | 7.4 | 0.8 | 1.3 | 187 | 0.42 | 0.04 | 3.7 | 0.31 | 0.23 | |
| I26 (8894025) | 11.3 | 46.1 | <0.002 | 0.04 | 0.13 | 7.7 | 0.8 | 0.9 | 255 | 0.36 | <0.01 | 3.1 | 0.27 | 0.24 | |
| I27 (8894026) | 9.8 | 43.2 | <0.002 | 0.04 | 0.11 | 7.9 | 0.6 | 0.8 | 272 | 0.33 | <0.01 | 3.6 | 0.25 | 0.22 | |
| I28 (8894027) | 11.0 | 45.6 | <0.002 | 0.04 | 0.21 | 8.8 | 0.7 | 1.0 | 266 | 0.40 | 0.01 | 5.3 | 0.28 | 0.24 | |
| I29 (8894028) | 10.2 | 45.5 | <0.002 | 0.03 | 0.12 | 9.1 | 0.6 | 1.0 | 263 | 0.35 | 0.01 | 3.5 | 0.30 | 0.22 | |
| I30 (8894029) | 10.5 | 47.6 | <0.002 | 0.02 | 0.15 | 7.0 | 0.7 | 1.0 | 258 | 0.36 | <0.01 | 3.3 | 0.27 | 0.25 | |
| I31 (8894030) | 11.2 | 46.4 | <0.002 | 0.04 | 0.12 | 7.7 | 0.8 | 0.9 | 287 | 0.36 | <0.01 | 3.0 | 0.26 | 0.24 | |
| I32 (8894031) | 10.9 | 48.5 | <0.002 | 0.03 | 0.15 | 7.8 | 0.7 | 1.2 | 270 | 0.36 | <0.01 | 3.2 | 0.27 | 0.24 | |
| I33 (8894032) | 10.9 | 49.3 | <0.002 | 0.03 | 0.13 | 6.7 | 0.6 | 0.9 | 279 | 0.28 | <0.01 | 2.3 | 0.20 | 0.24 | |
| I34 (8894033) | 10.7 | 47.6 | <0.002 | 0.03 | 0.18 | 7.0 | 0.6 | 1.5 | 297 | 0.38 | 0.05 | 2.6 | 0.20 | 0.25 | |
| I35 (8894034) | 13.5 | 45.0 | <0.002 | 0.04 | 0.21 | 7.1 | 1.0 | 1.0 | 218 | 0.38 | 0.03 | 8.8 | 0.26 | 0.25 | |
| I36 (8894035) | 13.6 | 48.7 | <0.002 | 0.05 | 0.34 | 8.1 | 0.8 | 1.1 | 228 | 0.40 | 0.03 | 3.3 | 0.29 | 0.24 | |
| I37 (8894036) | 11.9 | 56.5 | <0.002 | 0.03 | 0.15 | 5.4 | <0.5 | 0.8 | 297 | 0.28 | 0.01 | 2.2 | 0.19 | 0.28 | |
| I38 (8894037) | 14.2 | 50.0 | <0.002 | 0.03 | 0.29 | 6.9 | 0.8 | 1.1 | 252 | 0.37 | 0.03 | 3.5 | 0.27 | 0.26 | |
| I39 (8894038) | 11.9 | 45.2 | <0.002 | 0.03 | 0.25 | 7.9 | 0.5 | 1.5 | 254 | 0.43 | 0.01 | 3.1 | 0.28 | 0.23 | |
| I40 (8894039) | 24.8 | 39.0 | <0.002 | 0.08 | 0.64 | 10.6 | 1.0 | 1.2 | 192 | 0.50 | 0.11 | 7.1 | 0.62 | 0.19 | |
| J1 (8894040) | 28.4 | 45.6 | <0.002 | 0.09 | 0.13 | 7.7 | 0.9 | 1.0 | 243 | 0.35 | <0.01 | 3.5 | 0.24 | 0.26 | |
| J2 (8894041) | 10.8 | 50.1 | <0.002 | 0.03 | 0.16 | 6.9 | <0.5 | 0.8 | 285 | 0.31 | <0.01 | 3.1 | 0.20 | 0.24 | |
| J3 (8894042) | 11.3 | 49.6 | <0.002 | 0.04 | 0.15 | 8.0 | 0.5 | 1.0 | 255 | 0.40 | 0.03 | 3.2 | 0.26 | 0.26 | |
| J4 (8894043) | 11.5 | 51.2 | <0.002 | 0.04 | 0.15 | 7.8 | <0.5 | 1.0 | 274 | 0.36 | <0.01 | 3.2 | 0.25 | 0.25 | |
| J5 (8894044) | 12.2 | 40.2 | <0.002 | 0.05 | 0.19 | 8.6 | 1.1 | 0.8 | 259 | 0.35 | <0.01 | 5.3 | 0.25 | 0.23 | |

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 17T282585

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
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<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 08, 2018

SAMPLE TYPE: Other

| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl |
|---------------|------|------|--------|------|------|------|------|-----|-----|------|-------|-----|------|------|
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm |
| RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | 0.01 |
| J6 (8894045) | 10.5 | 48.2 | <0.002 | 0.03 | 0.16 | 7.1 | 0.7 | 0.9 | 279 | 0.32 | <0.01 | 7.4 | 0.24 | 0.25 |
| J7 (8894046) | 11.7 | 50.6 | <0.002 | 0.03 | 0.23 | 7.2 | 0.7 | 1.0 | 270 | 0.34 | <0.01 | 4.5 | 0.26 | 0.25 |
| J8 (8894047) | 10.3 | 48.3 | <0.002 | 0.03 | 0.13 | 7.6 | 0.5 | 0.8 | 265 | 0.30 | 0.01 | 2.7 | 0.23 | 0.23 |
| J9 (8894048) | 11.8 | 50.1 | <0.002 | 0.04 | 0.26 | 8.7 | 0.6 | 1.2 | 208 | 0.35 | 0.01 | 4.3 | 0.29 | 0.27 |
| J10 (8894049) | 10.7 | 45.9 | <0.002 | 0.04 | 0.15 | 8.5 | 0.8 | 0.9 | 269 | 0.35 | <0.01 | 3.2 | 0.25 | 0.25 |
| J11 (8894050) | 10.4 | 50.1 | <0.002 | 0.03 | 0.12 | 6.7 | <0.5 | 0.8 | 279 | 0.21 | <0.01 | 2.2 | 0.19 | 0.26 |
| J12 (8894051) | 10.8 | 47.9 | <0.002 | 0.03 | 0.12 | 6.8 | 0.6 | 0.8 | 272 | 0.23 | <0.01 | 4.8 | 0.21 | 0.25 |
| J13 (8894052) | 17.0 | 50.1 | <0.002 | 0.03 | 0.12 | 8.2 | 0.6 | 0.9 | 280 | 0.45 | <0.01 | 2.8 | 0.25 | 0.25 |
| J14 (8894053) | 11.0 | 51.9 | <0.002 | 0.03 | 0.12 | 6.8 | <0.5 | 0.7 | 285 | 0.21 | 0.01 | 2.8 | 0.20 | 0.27 |
| J15 (8894054) | 12.2 | 50.3 | <0.002 | 0.03 | 0.16 | 8.8 | 0.7 | 0.9 | 288 | 0.28 | <0.01 | 9.7 | 0.26 | 0.29 |
| J16 (8894055) | 11.3 | 49.9 | <0.002 | 0.03 | 0.15 | 7.9 | 0.7 | 0.9 | 282 | 0.25 | 0.02 | 3.0 | 0.24 | 0.26 |
| J17 (8894056) | 11.4 | 50.2 | <0.002 | 0.03 | 0.13 | 8.9 | 0.9 | 1.1 | 296 | 0.31 | 0.01 | 7.2 | 0.23 | 0.27 |
| J18 (8894057) | 12.0 | 49.4 | <0.002 | 0.05 | 0.23 | 9.0 | 0.9 | 1.1 | 212 | 0.35 | 0.03 | 3.2 | 0.31 | 0.26 |
| J19 (8894058) | 11.1 | 48.6 | <0.002 | 0.03 | 0.10 | 6.9 | <0.5 | 0.8 | 285 | 0.21 | 0.02 | 2.6 | 0.20 | 0.26 |
| J20 (8894059) | 10.4 | 48.0 | <0.002 | 0.03 | 0.14 | 6.4 | 0.6 | 0.9 | 293 | 0.20 | <0.01 | 1.6 | 0.18 | 0.25 |
| J21 (8894060) | 10.8 | 47.6 | <0.002 | 0.04 | 0.19 | 9.1 | 0.7 | 1.1 | 258 | 0.32 | <0.01 | 6.8 | 0.34 | 0.23 |
| J22 (8894061) | 10.9 | 52.7 | <0.002 | 0.03 | 0.18 | 7.6 | 0.5 | 0.8 | 287 | 0.27 | <0.01 | 2.5 | 0.24 | 0.24 |
| J23 (8894062) | 10.7 | 52.8 | <0.002 | 0.03 | 0.12 | 7.1 | 0.5 | 0.8 | 282 | 0.23 | 0.02 | 2.7 | 0.20 | 0.27 |
| J24 (8894063) | 11.6 | 48.5 | <0.002 | 0.04 | 0.12 | 7.7 | 0.7 | 0.9 | 273 | 0.27 | <0.01 | 2.8 | 0.23 | 0.26 |
| J25 (8894064) | 11.0 | 48.7 | <0.002 | 0.03 | 0.11 | 9.9 | 0.6 | 1.0 | 298 | 0.29 | <0.01 | 9.2 | 0.33 | 0.24 |
| J26 (8894065) | 11.3 | 54.5 | <0.002 | 0.04 | 0.20 | 8.5 | 0.8 | 1.1 | 241 | 0.31 | <0.01 | 3.5 | 0.28 | 0.26 |
| J27 (8894066) | 11.3 | 52.5 | <0.002 | 0.04 | 0.18 | 8.3 | 1.1 | 2.4 | 243 | 0.33 | <0.01 | 9.5 | 0.27 | 0.28 |
| J28 (8894067) | 11.0 | 51.9 | <0.002 | 0.04 | 0.11 | 8.4 | 0.7 | 0.9 | 269 | 0.31 | <0.01 | 3.9 | 0.27 | 0.26 |
| J29 (8894068) | 10.7 | 40.9 | <0.002 | 0.05 | 0.18 | 11.2 | 1.0 | 1.1 | 257 | 0.39 | 0.02 | 4.8 | 0.42 | 0.23 |
| J30 (8894069) | 10.9 | 49.2 | <0.002 | 0.04 | 0.12 | 7.8 | 0.7 | 0.9 | 285 | 0.24 | 0.01 | 2.9 | 0.21 | 0.25 |
| J31 (8894070) | 10.7 | 49.2 | <0.002 | 0.03 | 0.12 | 8.3 | 0.7 | 0.9 | 296 | 0.23 | <0.01 | 4.2 | 0.26 | 0.25 |
| J32 (8894071) | 11.1 | 51.1 | <0.002 | 0.03 | 0.10 | 7.9 | <0.5 | 0.9 | 293 | 0.25 | 0.01 | 3.1 | 0.25 | 0.25 |
| J33 (8894072) | 10.9 | 48.9 | <0.002 | 0.04 | 0.13 | 8.9 | 0.7 | 0.9 | 293 | 0.30 | <0.01 | 4.0 | 0.29 | 0.24 |
| K1 (8894073) | 10.6 | 51.6 | <0.002 | 0.03 | 0.20 | 8.4 | 0.7 | 1.0 | 279 | 0.29 | 0.01 | 3.5 | 0.25 | 0.25 |
| K2 (8894074) | 11.2 | 56.3 | <0.002 | 0.03 | 0.12 | 8.1 | 0.7 | 1.0 | 278 | 0.29 | <0.01 | 2.8 | 0.26 | 0.26 |
| K3 (8894075) | 11.3 | 57.8 | <0.002 | 0.03 | 0.12 | 8.3 | 0.7 | 1.0 | 266 | 0.30 | <0.01 | 3.1 | 0.29 | 0.28 |
| K4 (8894076) | 11.4 | 47.1 | <0.002 | 0.05 | 0.27 | 10.1 | 1.1 | 1.1 | 256 | 0.40 | 0.05 | 5.2 | 0.38 | 0.26 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282585

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 08, 2018

SAMPLE TYPE: Other

| Sample ID (AGAT ID) | Analyte: Unit: RDL: | Pb ppm 0.1 | Rb ppm 0.1 | Re ppm 0.002 | S % 0.01 | Sb ppm 0.05 | Sc ppm 0.1 | Se ppm 0.5 | Sn ppm 0.2 | Sr ppm 0.2 | Ta ppm 0.05 | Te ppm 0.01 | Th ppm 0.1 | Ti % 0.01 | Tl ppm 0.01 |
|---------------------|---------------------------|------------------|------------------|--------------------|----------------|-------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|------------------|-----------------|-------------------|
| K5 (8894077) | | 10.5 | 51.9 | <0.002 | 0.03 | 0.15 | 7.8 | 0.6 | 1.4 | 269 | 0.25 | <0.01 | 2.8 | 0.25 | 0.27 |
| K6 (8894078) | | 11.8 | 48.8 | <0.002 | 0.05 | 0.18 | 8.8 | 0.7 | 1.1 | 233 | 0.40 | 0.02 | 4.5 | 0.32 | 0.26 |
| K7 (8894079) | | 12.0 | 50.7 | <0.002 | 0.04 | 0.16 | 8.7 | 0.6 | 1.0 | 277 | 0.30 | <0.01 | 4.7 | 0.31 | 0.25 |
| K8 (8894080) | | 10.3 | 50.3 | <0.002 | 0.05 | 0.15 | 7.8 | 0.7 | 0.8 | 286 | 0.29 | 0.02 | 1.9 | 0.26 | 0.24 |
| K9 (8894081) | | 11.7 | 60.6 | <0.002 | 0.04 | 0.16 | 7.6 | 0.6 | 1.1 | 219 | 0.37 | 0.01 | 4.6 | 0.28 | 0.31 |
| K10 (8894082) | | 21.7 | 53.4 | <0.002 | 0.08 | 0.49 | 11.7 | 1.2 | 1.2 | 144 | 0.46 | 0.10 | 7.8 | 0.50 | 0.27 |
| K11 (8894083) | | 11.7 | 50.3 | <0.002 | 0.05 | 0.17 | 8.9 | 1.0 | 1.2 | 233 | 0.40 | 0.02 | 3.5 | 0.32 | 0.27 |
| K12 (8894084) | | 11.6 | 56.0 | <0.002 | 0.04 | 0.21 | 9.0 | 0.9 | 1.0 | 235 | 0.42 | 0.02 | 5.3 | 0.28 | 0.30 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282585

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
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 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | DATE REPORTED: Jan 08, 2018 | | | SAMPLE TYPE: Other |
|----------------------------|-----------------------------|------|-----|-----------------------------|------|------|--------------------|
| Analyte: | U | V | W | Y | Zn | Zr | |
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm | |
| RDL: | 0.005 | 0.5 | 0.1 | 0.1 | 0.5 | 0.5 | |
| I14 (8894013) | 0.792 | 54.4 | 0.4 | 8.7 | 34.1 | 107 | |
| I15 (8894014) | 0.831 | 68.1 | 0.4 | 8.4 | 37.5 | 92.6 | |
| I16 (8894015) | 0.959 | 59.5 | 0.4 | 8.2 | 41.0 | 115 | |
| I17 (8894016) | 2.42 | 61.8 | 0.3 | 8.6 | 44.7 | 118 | |
| I18 (8894017) | 1.09 | 69.1 | 0.4 | 9.0 | 53.7 | 89.4 | |
| I19 (8894018) | 1.18 | 74.0 | 0.5 | 8.1 | 57.4 | 112 | |
| I20 (8894019) | 0.994 | 62.4 | 0.4 | 8.3 | 67.9 | 117 | |
| I21 (8894020) | 1.12 | 79.2 | 0.4 | 10.5 | 46.6 | 113 | |
| I22 (8894021) | 0.607 | 47.9 | 0.3 | 7.5 | 27.4 | 81.7 | |
| I23 (8894022) | 0.654 | 57.8 | 0.3 | 8.4 | 27.2 | 78.2 | |
| I24 (8894023) | 0.667 | 54.1 | 0.3 | 7.0 | 71.5 | 74.0 | |
| I25 (8894024) | 1.03 | 66.9 | 0.5 | 7.0 | 61.9 | 114 | |
| I26 (8894025) | 0.812 | 59.6 | 0.3 | 7.4 | 48.8 | 105 | |
| I27 (8894026) | 0.533 | 65.9 | 0.2 | 7.5 | 30.2 | 59.2 | |
| I28 (8894027) | 0.771 | 68.7 | 0.3 | 9.3 | 37.1 | 97.4 | |
| I29 (8894028) | 0.883 | 73.2 | 0.3 | 9.1 | 33.7 | 127 | |
| I30 (8894029) | 0.752 | 48.9 | 0.3 | 7.1 | 28.0 | 110 | |
| I31 (8894030) | 0.681 | 58.5 | 0.3 | 7.8 | 40.0 | 101 | |
| I32 (8894031) | 0.758 | 59.4 | 0.3 | 7.6 | 34.4 | 116 | |
| I33 (8894032) | 0.520 | 49.2 | 0.4 | 6.0 | 35.9 | 63.8 | |
| I34 (8894033) | 0.562 | 49.3 | 0.3 | 6.6 | 25.9 | 68.2 | |
| I35 (8894034) | 0.901 | 56.4 | 0.3 | 7.4 | 58.6 | 84.2 | |
| I36 (8894035) | 0.846 | 69.9 | 0.4 | 7.5 | 117 | 95.2 | |
| I37 (8894036) | 0.541 | 41.4 | 0.2 | 5.4 | 35.4 | 77.0 | |
| I38 (8894037) | 0.787 | 52.8 | 0.3 | 7.2 | 53.1 | 116 | |
| I39 (8894038) | 0.781 | 60.6 | 0.4 | 7.9 | 88.8 | 107 | |
| I40 (8894039) | 1.36 | 119 | 0.6 | 10.7 | 94.1 | 99.1 | |
| J1 (8894040) | 0.813 | 52.8 | 0.3 | 7.2 | 23.8 | 118 | |
| J2 (8894041) | 0.713 | 47.3 | 0.2 | 7.0 | 25.7 | 93.6 | |
| J3 (8894042) | 0.711 | 53.1 | 0.4 | 7.5 | 35.7 | 115 | |
| J4 (8894043) | 0.793 | 58.1 | 0.3 | 8.2 | 36.1 | 123 | |
| J5 (8894044) | 1.08 | 60.0 | 0.3 | 9.0 | 42.6 | 108 | |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282585

PROJECT:

5623 McADAM ROAD
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<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | DATE REPORTED: Jan 08, 2018 | | | SAMPLE TYPE: Other |
|----------------------------|-----------------------------|-------|------|-----------------------------|------|------|--------------------|
| Analyte: | U | V | W | Y | Zn | Zr | |
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm | |
| Sample ID (AGAT ID) | RDL: | 0.005 | 0.5 | 0.1 | 0.1 | 0.5 | 0.5 |
| J6 (8894045) | | 0.795 | 50.0 | 0.2 | 7.5 | 41.8 | 125 |
| J7 (8894046) | | 0.759 | 59.4 | 0.3 | 7.6 | 33.0 | 87.3 |
| J8 (8894047) | | 0.671 | 52.5 | 0.2 | 7.4 | 35.2 | 90.0 |
| J9 (8894048) | | 1.10 | 66.4 | 0.5 | 8.6 | 48.3 | 123 |
| J10 (8894049) | | 0.733 | 60.3 | 0.2 | 8.0 | 33.6 | 99.0 |
| J11 (8894050) | | 0.573 | 48.9 | 0.2 | 6.6 | 26.7 | 85.8 |
| J12 (8894051) | | 0.694 | 54.3 | 0.2 | 7.5 | 43.1 | 71.6 |
| J13 (8894052) | | 0.696 | 57.3 | 0.2 | 8.4 | 31.4 | 102 |
| J14 (8894053) | | 0.634 | 50.0 | 0.2 | 8.0 | 31.4 | 64.3 |
| J15 (8894054) | | 1.35 | 56.7 | 0.2 | 14.9 | 28.4 | 125 |
| J16 (8894055) | | 0.664 | 61.9 | 5.4 | 8.3 | 31.5 | 86.5 |
| J17 (8894056) | | 1.41 | 55.2 | 0.3 | 16.6 | 28.6 | 103 |
| J18 (8894057) | | 0.999 | 77.8 | 0.4 | 9.1 | 43.9 | 103 |
| J19 (8894058) | | 0.580 | 50.5 | 0.2 | 6.9 | 25.7 | 75.0 |
| J20 (8894059) | | 0.469 | 50.5 | 0.2 | 6.4 | 37.4 | 59.1 |
| J21 (8894060) | | 1.09 | 84.0 | 0.3 | 11.8 | 53.4 | 136 |
| J22 (8894061) | | 0.584 | 65.2 | 0.2 | 7.6 | 41.3 | 59.7 |
| J23 (8894062) | | 0.591 | 51.2 | 0.2 | 6.7 | 28.3 | 80.4 |
| J24 (8894063) | | 0.612 | 58.5 | 0.2 | 7.4 | 44.7 | 62.9 |
| J25 (8894064) | | 1.02 | 82.5 | 0.2 | 12.0 | 35.5 | 125 |
| J26 (8894065) | | 0.793 | 62.1 | 0.4 | 8.6 | 32.2 | 105 |
| J27 (8894066) | | 0.758 | 66.5 | 0.3 | 8.6 | 30.8 | 80.9 |
| J28 (8894067) | | 0.800 | 68.4 | 0.2 | 9.6 | 33.7 | 103 |
| J29 (8894068) | | 0.990 | 102 | 0.3 | 11.8 | 47.5 | 126 |
| J30 (8894069) | | 0.610 | 56.1 | 0.3 | 7.5 | 37.8 | 68.3 |
| J31 (8894070) | | 0.582 | 66.7 | 0.2 | 8.4 | 35.9 | 78.8 |
| J32 (8894071) | | 0.661 | 62.9 | 0.2 | 8.4 | 37.1 | 93.1 |
| J33 (8894072) | | 0.727 | 75.0 | 0.2 | 9.3 | 29.5 | 115 |
| K1 (8894073) | | 0.664 | 61.0 | 0.2 | 9.1 | 52.0 | 108 |
| K2 (8894074) | | 0.774 | 63.4 | 0.3 | 8.9 | 52.3 | 110 |
| K3 (8894075) | | 0.748 | 60.4 | 0.3 | 8.4 | 44.1 | 110 |
| K4 (8894076) | | 1.16 | 91.0 | 0.4 | 12.9 | 56.7 | 175 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282585

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 08, 2018

SAMPLE TYPE: Other

| Analyte: | U | V | W | Y | Zn | Zr |
|---------------------|-------|------|-----|------|------|------|
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm |
| Sample ID (AGAT ID) | RDL: | | | | | |
| K5 (8894077) | 0.667 | 57.0 | 0.2 | 7.9 | 41.2 | 109 |
| K6 (8894078) | 0.942 | 68.6 | 0.3 | 9.7 | 84.3 | 136 |
| K7 (8894079) | 0.796 | 77.9 | 0.2 | 10.6 | 35.2 | 76.0 |
| K8 (8894080) | 0.682 | 59.9 | 0.2 | 8.3 | 25.9 | 77.2 |
| K9 (8894081) | 1.08 | 56.8 | 0.3 | 8.8 | 27.3 | 114 |
| K10 (8894082) | 1.52 | 113 | 0.6 | 10.8 | 75.0 | 105 |
| K11 (8894083) | 0.862 | 70.2 | 0.4 | 9.1 | 57.4 | 103 |
| K12 (8894084) | 0.891 | 59.9 | 0.4 | 8.7 | 44.2 | 106 |

Comments: RDL - Reported Detection Limit

8894013-8894084 As, Sb values may be low due to digestion losses.

Certified By:



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| Parameter | REPLICATE #1 | | | | REPLICATE #2 | | | | REPLICATE #3 | | | | REPLICATE #4 | | | |
|-----------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|
| | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD |
| Ag | 8894013 | 0.23 | 0.29 | 23.1% | 8894033 | 0.19 | 0.12 | | 8894053 | 0.12 | 0.47 | | 8894074 | 0.16 | 0.27 | |
| Al | 8894013 | 6.68 | 6.61 | 1.1% | 8894033 | 6.42 | 6.91 | 7.4% | 8894053 | 6.48 | 6.38 | 1.6% | 8894074 | 6.59 | 6.43 | 2.5% |
| As | 8894013 | 2.9 | 1.9 | | 8894033 | 1.9 | 2.1 | 10.0% | 8894053 | 3.42 | 4.12 | 18.6% | 8894074 | 2.5 | 2.0 | 22.2% |
| Ba | 8894013 | 496 | 494 | 0.4% | 8894033 | 514 | 546 | 6.0% | 8894053 | 547 | 535 | 2.2% | 8894074 | 530 | 505 | 4.8% |
| Be | 8894013 | 1.19 | 1.07 | 10.6% | 8894033 | 1.13 | 1.46 | 25.5% | 8894053 | 1.26 | 1.39 | 9.8% | 8894074 | 1.22 | 1.25 | 2.4% |
| Bi | 8894013 | 0.092 | 0.109 | 16.9% | 8894033 | 0.07 | 0.07 | 0.0% | 8894053 | 0.10 | 0.10 | 0.0% | 8894074 | 0.09 | 0.09 | 0.0% |
| Ca | 8894013 | 1.39 | 1.41 | 1.4% | 8894033 | 1.40 | 1.56 | 10.8% | 8894053 | 1.35 | 1.34 | 0.7% | 8894074 | 1.49 | 1.46 | 2.0% |
| Cd | 8894013 | 0.07 | 0.08 | 13.3% | 8894033 | 0.04 | 0.05 | 22.2% | 8894053 | 0.04 | 0.04 | 0.0% | 8894074 | 0.088 | 0.075 | 16.0% |
| Ce | 8894013 | 29.1 | 36.2 | 21.7% | 8894033 | 17.6 | 20.6 | 15.7% | 8894053 | 24.1 | 24.7 | 2.5% | 8894074 | 20.4 | 19.2 | 6.1% |
| Co | 8894013 | 11.4 | 11.6 | 1.7% | 8894033 | 9.26 | 9.25 | 0.1% | 8894053 | 8.66 | 8.47 | 2.2% | 8894074 | 9.27 | 8.99 | 3.1% |
| Cr | 8894013 | 57.4 | 57.0 | 0.7% | 8894033 | 46.9 | 51.7 | 9.7% | 8894053 | 54.3 | 52.9 | 2.6% | 8894074 | 49.3 | 54.5 | 10.0% |
| Cs | 8894013 | 1.17 | 1.17 | 0.0% | 8894033 | 0.930 | 0.966 | 3.8% | 8894053 | 1.12 | 1.13 | 0.9% | 8894074 | 1.37 | 1.26 | 8.4% |
| Cu | 8894013 | 11.4 | 11.6 | 1.7% | 8894033 | 7.5 | 8.2 | 8.9% | 8894053 | 12.0 | 11.8 | 1.7% | 8894074 | 6.3 | 6.6 | 4.7% |
| Fe | 8894013 | 2.26 | 2.26 | 0.0% | 8894033 | 1.97 | 2.19 | 10.6% | 8894053 | 2.12 | 2.04 | 3.8% | 8894074 | 2.52 | 2.51 | 0.4% |
| Ga | 8894013 | 14.5 | 14.0 | 3.5% | 8894033 | 13.3 | 13.2 | 0.8% | 8894053 | 14.7 | 14.9 | 1.4% | 8894074 | 15.6 | 15.8 | 1.3% |
| Ge | 8894013 | < 0.05 | < 0.05 | 0.0% | 8894033 | < 0.05 | < 0.05 | 0.0% | 8894053 | < 0.05 | < 0.05 | 0.0% | 8894074 | < 0.05 | < 0.05 | 0.0% |
| Hf | 8894013 | 2.7 | 2.7 | 0.0% | 8894033 | 1.9 | 1.5 | 23.5% | 8894053 | 1.6 | 1.6 | 0.0% | 8894074 | 2.4 | 2.5 | 4.1% |
| In | 8894013 | 0.0242 | 0.0262 | 7.9% | 8894033 | 0.0220 | 0.0191 | 14.1% | 8894053 | 0.020 | 0.021 | 4.9% | 8894074 | 0.0233 | 0.0260 | 11.0% |
| K | 8894013 | 1.53 | 1.51 | 1.3% | 8894033 | 1.57 | 1.69 | 7.4% | 8894053 | 1.64 | 1.62 | 1.2% | 8894074 | 1.65 | 1.59 | 3.7% |
| La | 8894013 | 11.6 | 15.4 | 28.1% | 8894033 | 7.8 | 9.1 | 15.4% | 8894053 | 9.9 | 9.7 | 2.0% | 8894074 | 9.7 | 9.0 | 7.5% |
| Li | 8894013 | 13.5 | 13.5 | 0.0% | 8894033 | 11.9 | 12.6 | 5.7% | 8894053 | 13.4 | 13.1 | 2.3% | 8894074 | 15.0 | 15.0 | 0.0% |
| Mg | 8894013 | 0.672 | 0.665 | 1.0% | 8894033 | 0.613 | 0.687 | 11.4% | 8894053 | 0.62 | 0.61 | 1.6% | 8894074 | 0.668 | 0.655 | 2.0% |
| Mn | 8894013 | 278 | 283 | 1.8% | 8894033 | 285 | 316 | 10.3% | 8894053 | 289 | 283 | 2.1% | 8894074 | 342 | 342 | 0.0% |
| Mo | 8894013 | 0.456 | 0.465 | 2.0% | 8894033 | 0.53 | 0.31 | | 8894053 | 0.413 | 0.417 | 1.0% | 8894074 | 0.438 | 0.445 | 1.6% |
| Na | 8894013 | 1.99 | 1.99 | 0.0% | 8894033 | 2.21 | 2.40 | 8.2% | 8894053 | 2.28 | 2.25 | 1.3% | 8894074 | 2.09 | 2.05 | 1.9% |
| Nb | 8894013 | 5.4 | 5.3 | 1.9% | 8894033 | 4.5 | 4.0 | 11.8% | 8894053 | 3.6 | 3.8 | 5.4% | 8894074 | 5.33 | 5.37 | 0.7% |
| Ni | 8894013 | 30.5 | 29.9 | 2.0% | 8894033 | 28.6 | 30.4 | 6.1% | 8894053 | 26.4 | 26.6 | 0.8% | 8894074 | 29.5 | 29.3 | 0.7% |
| P | 8894013 | 348 | 344 | 1.2% | 8894033 | 376 | 426 | 12.5% | 8894053 | 247 | 260 | 5.1% | 8894074 | 556 | 532 | 4.4% |
| Pb | 8894013 | 12.1 | 12.6 | 4.0% | 8894033 | 10.7 | 10.4 | 2.8% | 8894053 | 11.0 | 11.1 | 0.9% | 8894074 | 11.2 | 11.2 | 0.0% |
| Rb | 8894013 | 44.0 | 42.3 | 3.9% | 8894033 | 47.6 | 47.4 | 0.4% | 8894053 | 51.9 | 52.0 | 0.2% | 8894074 | 56.3 | 52.3 | 7.4% |
| Re | 8894013 | < 0.002 | < 0.002 | 0.0% | 8894033 | < 0.002 | < 0.002 | 0.0% | 8894053 | < 0.002 | < 0.002 | 0.0% | 8894074 | < 0.002 | < 0.002 | 0.0% |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

| | | | | | | | | | | | | | | | | |
|----|---------|--------|-------|-------|---------|-------|-------|-------|---------|-------|--------|-------|---------|--------|--------|------|
| S | 8894013 | 0.04 | 0.04 | 0.0% | 8894033 | 0.03 | 0.03 | 0.0% | 8894053 | 0.03 | 0.03 | 0.0% | 8894074 | 0.03 | 0.03 | 0.0% |
| Sb | 8894013 | 0.13 | 0.13 | 0.0% | 8894033 | 0.18 | 0.14 | 25.0% | 8894053 | 0.12 | 0.14 | 15.4% | 8894074 | 0.121 | 0.114 | 6.0% |
| Sc | 8894013 | 8.6 | 8.6 | 0.0% | 8894033 | 7.0 | 7.4 | 5.6% | 8894053 | 6.8 | 6.8 | 0.0% | 8894074 | 8.1 | 7.8 | 3.8% |
| Se | 8894013 | 0.9 | 0.9 | 0.0% | 8894033 | 0.6 | 0.6 | 0.0% | 8894053 | < 0.5 | 0.6 | | 8894074 | 0.7 | < 0.5 | |
| Sn | 8894013 | 0.9 | 0.9 | 0.0% | 8894033 | 1.5 | 0.8 | | 8894053 | 0.7 | 0.8 | 13.3% | 8894074 | 0.95 | 0.92 | 3.2% |
| Sr | 8894013 | 263 | 258 | 1.9% | 8894033 | 297 | 310 | 4.3% | 8894053 | 285 | 292 | 2.4% | 8894074 | 278 | 272 | 2.2% |
| Ta | 8894013 | 0.40 | 0.40 | 0.0% | 8894033 | 0.38 | 0.33 | 14.1% | 8894053 | 0.21 | 0.21 | 0.0% | 8894074 | 0.292 | 0.307 | 5.0% |
| Te | 8894013 | < 0.01 | 0.02 | | 8894033 | 0.05 | 0.02 | | 8894053 | 0.01 | < 0.01 | | 8894074 | < 0.01 | < 0.01 | 0.0% |
| Th | 8894013 | 3.33 | 4.50 | 29.9% | 8894033 | 2.6 | 3.0 | 14.3% | 8894053 | 2.8 | 3.2 | 13.3% | 8894074 | 2.8 | 2.7 | 3.6% |
| Ti | 8894013 | 0.24 | 0.24 | 0.0% | 8894033 | 0.20 | 0.22 | 9.5% | 8894053 | 0.195 | 0.191 | 2.1% | 8894074 | 0.261 | 0.276 | 5.6% |
| Tl | 8894013 | 0.256 | 0.249 | 2.8% | 8894033 | 0.25 | 0.24 | 4.1% | 8894053 | 0.27 | 0.27 | 0.0% | 8894074 | 0.257 | 0.265 | 3.1% |
| U | 8894013 | 0.792 | 1.09 | | 8894033 | 0.562 | 0.655 | 15.3% | 8894053 | 0.634 | 0.660 | 4.0% | 8894074 | 0.774 | 0.740 | 4.5% |
| V | 8894013 | 54.4 | 53.7 | 1.3% | 8894033 | 49.3 | 51.8 | 4.9% | 8894053 | 50.0 | 50.8 | 1.6% | 8894074 | 63.4 | 63.9 | 0.8% |
| W | 8894013 | 0.36 | 0.32 | 11.8% | 8894033 | 0.28 | 0.22 | 24.0% | 8894053 | 0.2 | 0.2 | 0.0% | 8894074 | 0.3 | 0.3 | 0.0% |
| Y | 8894013 | 8.69 | 8.88 | 2.2% | 8894033 | 6.63 | 6.93 | 4.4% | 8894053 | 7.99 | 8.46 | 5.7% | 8894074 | 8.9 | 8.9 | 0.0% |
| Zn | 8894013 | 34.1 | 33.3 | 2.4% | 8894033 | 25.9 | 28.0 | 7.8% | 8894053 | 31.4 | 31.2 | 0.6% | 8894074 | 52.3 | 52.9 | 1.1% |
| Zr | 8894013 | 107 | 105 | 1.9% | 8894033 | 68.2 | 59.3 | 14.0% | 8894053 | 64.3 | 67.8 | 5.3% | 8894074 | 110 | 107 | 2.8% |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| Parameter | CRM #1 (ref.SY-4) | | | | CRM #2 (ref.GTS-2A) | | | | CRM #3 (ref.Till-2) | | | | CRM #4 (ref.SY-4) | | | |
|-----------|-------------------|--------|----------|------------|---------------------|--------|----------|------------|---------------------|--------|----------|------------|-------------------|--------|----------|------------|
| | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits |
| Al | 10.95 | 10.2 | 93% | 90% - 110% | 6.96 | 6.71 | 96% | 90% - 110% | | | | | | | | |
| As | | | | | 124 | 124 | 100% | 90% - 110% | | | | | | | | |
| Ba | 340 | 313 | 92% | 90% - 110% | 186 | 182 | 97% | 90% - 110% | | | | | | | | |
| Be | 2.6 | 2.8 | 107% | 90% - 110% | | | | | | | | | | | | |
| Ca | 5.72 | 5.26 | 91% | 90% - 110% | 4.01 | 3.86 | 96% | 90% - 110% | | | | | | | | |
| Ce | 122 | 114 | 93% | 90% - 110% | 24 | 22 | 91% | 90% - 110% | | | | | | | | |
| Co | 2.8 | 2.5 | 89% | 90% - 110% | 22.1 | 20.9 | 94% | 90% - 110% | | | | | | | | |
| Cs | 1.5 | 1.4 | 93% | 90% - 110% | | | | | | | | | | | | |
| Cu | | | | | 88.6 | 83.5 | 94% | 90% - 110% | | | | | | | | |
| Fe | 4.34 | 3.97 | 91% | 90% - 110% | 7.56 | 7.32 | 96% | 90% - 110% | | | | | | | | |
| Ga | 35 | 35 | 100% | 90% - 110% | | | | | | | | | | | | |
| Hf | 10.6 | 1.1 | | 90% - 110% | | | | | | | | | | | | |
| K | 1.37 | 1.29 | 94% | 90% - 110% | 2.021 | 1.929 | 95% | 90% - 110% | | | | | | | | |
| La | 58 | 53 | 91% | 90% - 110% | | | | | | | | | | | | |
| Li | 37 | 36 | 97% | 90% - 110% | | | | | | | | | | | | |
| Mg | 0.325 | 0.316 | 97% | 90% - 110% | 2.412 | 2.38 | 98% | 90% - 110% | | | | | | | | |
| Mn | | | | | 1510 | 1396 | 92% | 90% - 110% | | | | | | | | |
| Na | 5.267 | 4.981 | 94% | 90% - 110% | 0.617 | 0.609 | 98% | 90% - 110% | | | | | | | | |
| Nb | 13 | 14 | 107% | 90% - 110% | | | | | | | | | | | | |
| Ni | 9 | 7 | 77% | 90% - 110% | 77.1 | 69.9 | 90% | 90% - 110% | | | | | | | | |
| P | | | | | 892 | 983 | 110% | 90% - 110% | | | | | | | | |
| Pb | 10 | 9 | 90% | 90% - 110% | | | | | | | | | | | | |
| Rb | 55 | 50 | 90% | 90% - 110% | | | | | 143 | 140 | 97% | 90% - 110% | 55 | 55 | 100% | 90% - 110% |
| S | | | | | 0.348 | 0.388 | 111% | 90% - 110% | | | | | | | | |
| Sr | 1191 | 1081 | 90% | 90% - 110% | | | | | | | | | | | | |
| Ta | 0.9 | 1 | 111% | 90% - 110% | | | | | | | | | | | | |
| Th | 1.4 | 1.2 | 85% | 90% - 110% | | | | | | | | | | | | |
| Ti | 0.172 | 0.154 | 89% | 90% - 110% | | | | | | | | | | | | |
| V | 8 | 6 | 75% | 90% - 110% | | | | | | | | | | | | |
| Y | 119 | 118 | 99% | 90% - 110% | | | | | | | | | | | | |
| Zn | 93 | 84 | 90% | 90% - 110% | 208 | 199 | 95% | 90% - 110% | | | | | | | | |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

| Parameter | CRM #5 (ref.Till-2) | | | | CRM #6 (ref.SY-4) | | | | | | | | | | | |
|-----------|---------------------|--------|----------|------------|-------------------|--------|----------|------------|--|--|--|--|--|--|--|--|
| | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | | | | | | | | |
| Al | 8.17 | 7.97 | 97% | 90% - 110% | 10.95 | 10.61 | 96% | 90% - 110% | | | | | | | | |
| As | 26 | 27 | 103% | 90% - 110% | | | | | | | | | | | | |
| Ba | 540 | 518 | 95% | 90% - 110% | 340 | 329 | 96% | 90% - 110% | | | | | | | | |
| Be | 4.0 | 3.6 | 90% | 90% - 110% | 2.6 | 2.8 | 107% | 90% - 110% | | | | | | | | |
| Ca | 0.907 | 0.895 | 98% | 90% - 110% | 5.72 | 5.47 | 95% | 90% - 110% | | | | | | | | |
| Ce | 98 | 91 | 92% | 90% - 110% | 122 | 114 | 93% | 90% - 110% | | | | | | | | |
| Co | | | | | 2.8 | 2.5 | 89% | 90% - 110% | | | | | | | | |
| Cr | 60.3 | 54.5 | 90% | 90% - 110% | | | | | | | | | | | | |
| Cs | 12 | 11 | 91% | 90% - 110% | 1.5 | 1.6 | 106% | 90% - 110% | | | | | | | | |
| Cu | 150 | 140 | 93% | 90% - 110% | | | | | | | | | | | | |
| Fe | 3.77 | 3.68 | 97% | 90% - 110% | 4.34 | 4.16 | 95% | 90% - 110% | | | | | | | | |
| Ga | | | | | 35 | 37 | 105% | 90% - 110% | | | | | | | | |
| Hf | | | | | 10.6 | 1.1 | | 90% - 110% | | | | | | | | |
| K | | | | | 1.37 | 1.33 | 97% | 90% - 110% | | | | | | | | |
| La | 44 | 40 | 90% | 90% - 110% | 58 | 53 | 91% | 90% - 110% | | | | | | | | |
| Li | 47 | 43 | 91% | 90% - 110% | 37 | 36 | 97% | 90% - 110% | | | | | | | | |
| Mg | 1.10 | 1.06 | 96% | 90% - 110% | 0.325 | 0.296 | 91% | 90% - 110% | | | | | | | | |
| Mn | 780 | 715 | 91% | 90% - 110% | | | | | | | | | | | | |
| Mo | 14 | 13 | 92% | 90% - 110% | | | | | | | | | | | | |
| Na | 1.624 | 1.619 | 99% | 90% - 110% | 5.267 | 5.18 | 98% | 90% - 110% | | | | | | | | |
| Nb | | | | | 13 | 14 | 107% | 90% - 110% | | | | | | | | |
| Ni | 32 | 32 | 100% | 90% - 110% | 9 | 8 | 88% | 90% - 110% | | | | | | | | |
| Pb | 31 | 29 | 93% | 90% - 110% | 10 | 9 | 90% | 90% - 110% | | | | | | | | |
| Rb | | | | | 55 | 60 | 109% | 90% - 110% | | | | | | | | |
| Sb | 0.8 | 0.8 | 100% | 90% - 110% | | | | | | | | | | | | |
| Sc | 12 | 12 | 100% | 90% - 110% | | | | | | | | | | | | |
| Ta | | | | | 0.9 | 0.8 | 88% | 90% - 110% | | | | | | | | |
| Th | 18.4 | 17.2 | 93% | 90% - 110% | 1.4 | 1.4 | 100% | 90% - 110% | | | | | | | | |
| Ti | | | | | 0.172 | 0.161 | 93% | 90% - 110% | | | | | | | | |
| V | 77 | 72 | 93% | 90% - 110% | | | | | | | | | | | | |
| Y | | | | | 119 | 130 | 109% | 90% - 110% | | | | | | | | |
| Zn | 130 | 120 | 92% | 90% - 110% | 93 | 87 | 93% | 90% - 110% | | | | | | | | |

Method Summary

CLIENT NAME: CRUZ COBALT CORP.

AGAT WORK ORDER: 17T282585

PROJECT:

ATTENTION TO: Jason Gigliotti, Jim Nelson

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|----------------|---------------|----------------------|----------------------|
| Solid Analysis | | | |
| Ag | MIN-200-12020 | | ICP-MS |
| Al | MIN-200-12020 | | ICP/OES |
| As | MIN-200-12020 | | ICP-MS |
| Ba | MIN-200-12020 | | ICP-MS |
| Be | MIN-200-12020 | | ICP-MS |
| Bi | MIN-200-12020 | | ICP-MS |
| Ca | MIN-200-12020 | | ICP/OES |
| Cd | MIN-200-12020 | | ICP-MS |
| Ce | MIN-200-12020 | | ICP-MS |
| Co | MIN-200-12020 | | ICP-MS |
| Cr | MIN-200-12020 | | ICP/OES |
| Cs | MIN-200-12020 | | ICP-MS |
| Cu | MIN-200-12020 | | ICP-MS |
| Fe | MIN-200-12020 | | ICP/OES |
| Ga | MIN-200-12020 | | ICP-MS |
| Ge | MIN-200-12020 | | ICP-MS |
| Hf | MIN-200-12020 | | ICP-MS |
| In | MIN-200-12020 | | ICP-MS |
| K | MIN-200-12020 | | ICP/OES |
| La | MIN-200-12020 | | ICP-MS |
| Li | MIN-200-12020 | | ICP-MS |
| Mg | MIN-200-12020 | | ICP/OES |
| Mn | MIN-200-12020 | | ICP/OES |
| Mo | MIN-200-12020 | | ICP-MS |
| Na | MIN-200-12020 | | ICP/OES |
| Nb | MIN-200-12020 | | ICP-MS |
| Ni | MIN-200-12020 | | ICP-MS |
| P | MIN-200-12020 | | ICP/OES |
| Pb | MIN-200-12020 | | ICP-MS |
| Rb | MIN-200-12020 | | ICP-MS |
| Re | MIN-200-12020 | | ICP-MS |
| S | MIN-200-12020 | | ICP/OES |
| Sb | MIN-200-12020 | | ICP-MS |
| Sc | MIN-200-12020 | | ICP-MS |
| Se | MIN-200-12020 | | ICP-MS |
| Sn | MIN-200-12020 | | ICP-MS |
| Sr | MIN-200-12020 | | ICP-MS |
| Ta | MIN-200-12020 | | ICP-MS |
| Te | MIN-200-12020 | | ICP-MS |
| Th | MIN-200-12020 | | ICP-MS |
| Ti | MIN-200-12020 | | ICP/OES |
| Tl | MIN-200-12020 | | ICP-MS |
| U | MIN-200-12020 | | ICP-MS |
| V | MIN-200-12020 | | ICP/OES |
| W | MIN-200-12020 | | ICP-MS |
| Y | MIN-200-12020 | | ICP-MS |
| Zn | MIN-200-12020 | | ICP-MS |
| Zr | MIN-200-12020 | | ICP-MS |

CLIENT NAME: CRUZ COBALT CORP.
P.O BOX 10112 1470-701 W. GEORGIA ST
VANCOUVER, BC V7Y 1C6
604-646-6908

ATTENTION TO: Jason Gigliotti, Jim Nelson

PROJECT:

AGAT WORK ORDER: 17T282586

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Jan 03, 2018

PAGES (INCLUDING COVER): 18

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 17T282586

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 03, 2018

SAMPLE TYPE: Other

| Analyte: | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs | Cu | Fe |
|---------------|------|------|-----|-----|------|------|------|-------|------|------|------|------|------|------|
| Unit: | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % |
| RDL: | 0.01 | 0.01 | 0.2 | 1 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.05 | 0.5 | 0.01 | 0.5 | 0.01 |
| K13 (8894159) | 0.25 | 7.03 | 1.6 | 515 | 1.56 | 0.10 | 1.36 | 0.07 | 33.8 | 16.3 | 71.7 | 1.84 | 8.2 | 2.35 |
| K14 (8894160) | 0.38 | 6.44 | 2.0 | 515 | 1.45 | 0.09 | 1.51 | 0.04 | 30.1 | 11.5 | 57.2 | 1.49 | 6.2 | 2.28 |
| K15 (8894161) | 0.36 | 7.09 | 4.1 | 492 | 1.65 | 0.13 | 1.57 | 0.08 | 29.6 | 16.4 | 83.4 | 2.04 | 9.5 | 3.36 |
| K16 (8894162) | 0.35 | 5.86 | 2.6 | 462 | 1.39 | 0.08 | 1.44 | 0.05 | 30.8 | 10.4 | 54.0 | 1.22 | 5.2 | 1.99 |
| K17 (8894163) | 0.25 | 5.98 | 2.2 | 479 | 1.34 | 0.08 | 1.35 | 0.05 | 19.3 | 10.2 | 53.0 | 1.50 | 4.3 | 2.25 |
| K18 (8894164) | 0.52 | 7.42 | 4.8 | 472 | 1.68 | 0.19 | 1.56 | 0.13 | 24.3 | 31.7 | 82.9 | 2.77 | 14.0 | 4.69 |
| K19 (8894165) | 0.17 | 6.19 | 0.4 | 495 | 1.44 | 0.08 | 1.41 | 0.05 | 21.1 | 9.58 | 43.9 | 1.29 | 3.1 | 2.02 |
| L1 (8894166) | 0.22 | 7.48 | 2.2 | 452 | 1.52 | 0.10 | 1.24 | <0.02 | 24.1 | 11.7 | 53.6 | 1.42 | 3.0 | 2.40 |
| L2 (8894167) | 0.22 | 6.09 | 1.2 | 494 | 1.31 | 0.08 | 1.40 | 0.08 | 28.4 | 9.00 | 51.1 | 1.49 | 1.6 | 1.72 |
| L3 (8894168) | 0.26 | 6.89 | 1.8 | 493 | 1.60 | 0.08 | 1.53 | 0.07 | 34.4 | 13.8 | 63.4 | 1.43 | 2.6 | 2.15 |
| L4 (8894169) | 0.20 | 6.44 | 2.2 | 502 | 1.47 | 0.09 | 1.58 | 0.06 | 27.4 | 11.8 | 52.7 | 1.24 | 3.4 | 2.07 |
| L5 (8894170) | 0.19 | 6.59 | 1.1 | 499 | 1.44 | 0.07 | 1.48 | 0.06 | 22.7 | 10.8 | 51.6 | 1.37 | 2.9 | 2.06 |
| L6 (8894171) | 0.88 | 6.23 | 1.2 | 500 | 1.39 | 0.08 | 1.37 | 0.07 | 17.1 | 9.21 | 44.4 | 1.41 | 1.4 | 1.96 |
| L7 (8894172) | 0.26 | 6.05 | 1.8 | 505 | 1.78 | 0.06 | 1.39 | 0.03 | 23.2 | 8.76 | 46.0 | 1.22 | 3.3 | 1.70 |
| L8 (8894173) | 0.20 | 6.73 | 1.5 | 523 | 1.48 | 0.08 | 1.57 | 0.05 | 22.7 | 11.3 | 61.1 | 1.41 | 3.2 | 2.46 |
| L9 (8894174) | 0.19 | 5.43 | 1.7 | 522 | 1.07 | 0.08 | 1.15 | 0.06 | 19.0 | 4.35 | 31.2 | 1.27 | 0.9 | 1.30 |
| L10 (8894175) | 0.18 | 6.34 | 2.3 | 486 | 1.42 | 0.07 | 1.40 | 0.06 | 17.0 | 9.29 | 44.0 | 1.22 | 3.9 | 1.84 |
| L11 (8894176) | 0.17 | 6.97 | 3.3 | 499 | 1.58 | 0.07 | 1.55 | 0.05 | 17.9 | 11.5 | 55.6 | 1.38 | 4.0 | 2.23 |
| L12 (8894177) | 0.23 | 6.78 | 2.9 | 453 | 1.55 | 0.10 | 1.52 | 0.06 | 26.0 | 14.4 | 77.0 | 1.61 | 6.2 | 2.89 |
| L13 (8894178) | 0.17 | 6.05 | 2.3 | 479 | 1.40 | 0.08 | 1.50 | 0.04 | 32.7 | 12.0 | 72.2 | 1.36 | 9.1 | 2.47 |
| L14 (8894179) | 0.22 | 6.74 | 3.1 | 503 | 1.56 | 0.10 | 1.48 | 0.10 | 32.1 | 16.7 | 74.8 | 1.60 | 10.9 | 2.69 |
| L15 (8894180) | 0.32 | 6.73 | 0.9 | 410 | 1.59 | 0.11 | 1.45 | 0.09 | 20.1 | 16.5 | 87.7 | 1.76 | 8.0 | 3.22 |
| L16 (8894181) | 0.23 | 6.08 | 0.9 | 504 | 1.34 | 0.07 | 1.29 | 0.05 | 19.5 | 7.91 | 38.3 | 1.43 | 2.2 | 1.76 |
| L17 (8894182) | 0.27 | 6.60 | 1.3 | 505 | 1.47 | 0.08 | 1.30 | 0.06 | 24.2 | 12.6 | 53.1 | 1.41 | 4.2 | 2.02 |
| L18 (8894183) | 0.23 | 6.01 | 6.6 | 482 | 1.43 | 0.12 | 1.80 | 0.24 | 36.9 | 11.4 | 58.8 | 1.38 | 19.9 | 1.98 |
| L19 (8894184) | 0.31 | 7.75 | 3.5 | 597 | 1.96 | 0.17 | 1.19 | 0.03 | 52.0 | 22.5 | 119 | 3.87 | 26.1 | 4.09 |
| L20 (8894185) | 0.30 | 6.94 | 4.0 | 489 | 1.39 | 0.15 | 1.60 | 0.06 | 36.7 | 22.7 | 92.5 | 3.02 | 18.5 | 3.35 |
| L21 (8894186) | 0.32 | 6.28 | 2.7 | 541 | 1.34 | 0.09 | 1.40 | 0.08 | 24.9 | 12.1 | 81.1 | 2.07 | 8.6 | 2.50 |
| M1 (8894187) | 0.25 | 6.18 | 6.4 | 509 | 1.63 | 0.19 | 1.51 | 0.09 | 39.7 | 10.2 | 54.0 | 1.61 | 16.8 | 2.06 |
| M2 (8894188) | 0.19 | 6.01 | 2.1 | 500 | 1.40 | 0.10 | 1.49 | 0.08 | 28.7 | 12.9 | 62.0 | 1.68 | 11.6 | 2.14 |
| M3 (8894189) | 0.33 | 5.91 | 1.8 | 478 | 1.32 | 0.08 | 1.35 | 0.05 | 30.8 | 8.94 | 44.1 | 1.39 | 7.6 | 1.70 |
| M4 (8894190) | 0.35 | 6.63 | 6.3 | 497 | 1.73 | 0.11 | 1.55 | 0.14 | 34.6 | 21.2 | 61.6 | 1.67 | 8.7 | 2.53 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282586

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
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<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | DATE REPORTED: Jan 03, 2018 | | | SAMPLE TYPE: Other | | | | | | | |
|----------------------------|-----------------------------|------|------|-----------------------------|------|------|--------------------|-------|------|------|------|------|------|------|
| Analyte: | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs | Cu | Fe |
| Unit: | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % |
| RDL: | 0.01 | 0.01 | 0.2 | 1 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.05 | 0.5 | 0.01 | 0.5 | 0.01 |
| M5 (8894191) | 0.61 | 6.54 | 12.9 | 461 | 1.50 | 3.19 | 1.52 | 0.07 | 40.4 | 18.3 | 76.9 | 2.21 | 65.9 | 2.83 |
| M6 (8894192) | 0.26 | 6.12 | 14.2 | 477 | 1.40 | 0.40 | 1.62 | 0.04 | 52.0 | 16.3 | 71.9 | 2.26 | 26.1 | 2.59 |
| M8 (8894194) | 0.46 | 7.22 | 6.5 | 516 | 1.57 | 0.19 | 1.27 | 0.15 | 26.0 | 27.1 | 87.5 | 3.09 | 32.9 | 3.50 |
| M9 (8894195) | 0.94 | 7.28 | 6.6 | 420 | 1.59 | 0.20 | 0.95 | 0.18 | 39.3 | 30.7 | 165 | 2.70 | 36.4 | 4.75 |
| M10 (8894196) | 0.41 | 6.81 | 2.6 | 532 | 1.32 | 0.13 | 1.39 | 0.11 | 32.8 | 13.5 | 78.2 | 2.45 | 9.7 | 2.46 |
| M11 (8894197) | 0.38 | 7.21 | 3.4 | 516 | 1.66 | 0.13 | 1.30 | 0.10 | 43.3 | 21.0 | 93.3 | 2.55 | 27.3 | 3.16 |
| M12 (8894198) | 0.31 | 6.44 | 4.8 | 451 | 1.58 | 0.15 | 1.21 | 0.11 | 37.5 | 14.9 | 73.1 | 2.10 | 12.5 | 3.12 |
| M13 (8894199) | 0.36 | 7.16 | 3.2 | 547 | 1.39 | 0.11 | 1.32 | 0.07 | 35.6 | 13.5 | 81.1 | 2.51 | 13.0 | 2.75 |
| M14 (8894200) | 1.88 | 6.59 | 2.6 | 522 | 1.45 | 0.10 | 1.48 | 0.05 | 28.9 | 10.8 | 55.8 | 1.63 | 9.6 | 2.11 |
| M15 (8894201) | 0.32 | 6.70 | 5.7 | 441 | 1.44 | 0.21 | 1.49 | 0.07 | 29.8 | 22.2 | 63.4 | 2.11 | 57.5 | 3.31 |
| M16 (8894202) | 0.18 | 6.60 | 4.2 | 529 | 1.42 | 0.10 | 1.57 | 0.03 | 26.3 | 11.9 | 54.0 | 1.35 | 18.3 | 2.11 |
| M17 (8894203) | 0.19 | 6.33 | 4.5 | 494 | 1.42 | 0.10 | 1.41 | 0.05 | 24.4 | 11.8 | 49.8 | 1.31 | 36.9 | 2.17 |
| M18 (8894204) | 0.21 | 6.38 | 4.7 | 466 | 1.33 | 0.15 | 1.44 | 0.08 | 33.2 | 19.1 | 58.8 | 1.47 | 26.0 | 2.61 |
| M19 (8894205) | 0.32 | 7.24 | 9.4 | 419 | 1.54 | 0.21 | 1.35 | 0.09 | 24.2 | 24.6 | 70.6 | 2.30 | 35.3 | 4.21 |
| M20 (8894206) | 0.19 | 6.76 | 3.9 | 485 | 1.52 | 0.10 | 1.52 | 0.06 | 33.2 | 17.8 | 60.8 | 1.51 | 11.6 | 2.33 |
| M21 (8894207) | 0.28 | 6.64 | 4.9 | 423 | 1.38 | 0.14 | 1.33 | 0.07 | 41.1 | 14.8 | 67.9 | 2.21 | 14.9 | 3.10 |
| M22 (8894208) | 0.23 | 6.56 | 3.9 | 432 | 1.37 | 0.14 | 1.33 | 0.08 | 29.0 | 15.8 | 73.5 | 2.11 | 22.8 | 2.91 |
| M23 (8894209) | 0.25 | 6.80 | 3.1 | 464 | 1.49 | 0.11 | 1.50 | 0.05 | 48.1 | 12.5 | 64.3 | 1.51 | 17.0 | 2.37 |
| M24 (8894210) | 0.25 | 6.58 | 4.0 | 439 | 1.44 | 0.15 | 1.30 | 0.06 | 30.8 | 15.3 | 68.8 | 2.27 | 13.2 | 3.36 |
| M25 (8894211) | 0.24 | 6.77 | 5.6 | 442 | 1.47 | 0.14 | 1.42 | 0.03 | 52.3 | 21.4 | 75.8 | 1.84 | 15.7 | 2.97 |
| M26 (8894212) | 0.43 | 6.46 | 3.2 | 463 | 1.43 | 0.15 | 1.34 | 0.08 | 25.1 | 10.2 | 60.5 | 2.21 | 12.9 | 2.67 |
| M27 (8894213) | 0.20 | 6.62 | 1.7 | 503 | 1.39 | 0.07 | 1.50 | 0.04 | 24.4 | 12.9 | 53.7 | 1.40 | 2.5 | 2.13 |
| M28 (8894214) | 0.26 | 6.91 | 1.5 | 499 | 1.51 | 0.10 | 1.49 | 0.05 | 26.8 | 14.6 | 61.4 | 1.59 | 3.8 | 2.55 |
| M29 (8894215) | 0.35 | 5.79 | 2.2 | 504 | 1.26 | 0.14 | 1.35 | 0.06 | 29.6 | 9.11 | 45.8 | 1.33 | 6.2 | 1.79 |
| M30 (8894216) | 0.19 | 6.36 | 2.4 | 473 | 1.62 | 0.08 | 1.42 | 0.06 | 20.1 | 11.6 | 57.4 | 1.43 | 3.7 | 2.29 |
| M31 (8894217) | 0.23 | 6.43 | 1.4 | 474 | 1.53 | 0.52 | 1.63 | 0.06 | 31.8 | 12.4 | 67.3 | 1.27 | 3.8 | 2.36 |
| M32 (8894218) | 0.23 | 6.45 | 2.9 | 475 | 1.45 | 0.09 | 1.57 | <0.02 | 32.2 | 12.0 | 68.5 | 1.41 | 3.7 | 2.48 |
| M33 (8894219) | 0.25 | 6.73 | 2.1 | 474 | 1.45 | 0.09 | 1.60 | 0.05 | 24.3 | 15.9 | 67.3 | 1.47 | 3.2 | 2.69 |
| M34 (8894220) | 0.26 | 6.67 | 1.7 | 488 | 1.55 | 0.10 | 1.63 | <0.02 | 34.6 | 12.4 | 73.9 | 1.48 | 3.7 | 2.77 |
| M35 (8894221) | 0.30 | 6.46 | 2.5 | 466 | 1.40 | 0.10 | 1.53 | 0.07 | 23.7 | 11.7 | 77.1 | 1.36 | 4.0 | 3.06 |
| M36 (8894222) | 0.33 | 6.71 | 1.6 | 474 | 1.55 | 0.10 | 1.58 | 0.07 | 40.5 | 13.1 | 80.4 | 1.62 | 8.0 | 2.86 |
| M37 (8894223) | 0.29 | 6.74 | 2.8 | 487 | 1.50 | 0.09 | 1.48 | 0.05 | 27.0 | 13.2 | 72.7 | 1.53 | 7.8 | 2.74 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282586

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | DATE REPORTED: Jan 03, 2018 | | | | SAMPLE TYPE: Other | | | | | |
|----------------------------|-----------------------------|------|-----|-----|-----------------------------|------|------|------|--------------------|------|------|------|------|------|
| Analyte: | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs | Cu | Fe |
| Unit: | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % |
| Sample ID (AGAT ID) | RDL: | | | | | | | | | | | | | |
| M38 (8894224) | 0.27 | 7.05 | 2.6 | 495 | 1.55 | 0.09 | 1.52 | 0.05 | 30.6 | 13.8 | 65.7 | 1.44 | 5.6 | 2.69 |
| M39 (8894225) | 0.29 | 7.38 | 3.9 | 535 | 1.50 | 0.12 | 1.46 | 0.06 | 30.5 | 20.6 | 75.1 | 2.45 | 12.4 | 2.94 |
| M40 (8894226) | 0.26 | 6.54 | 1.3 | 507 | 1.55 | 0.08 | 1.65 | 0.06 | 30.5 | 12.9 | 64.5 | 1.42 | 3.0 | 2.42 |
| M41 (8894227) | 0.23 | 6.48 | 1.9 | 516 | 1.51 | 0.09 | 1.44 | 0.06 | 22.4 | 11.3 | 58.5 | 1.69 | 3.1 | 2.43 |

Certified By:

Certificate of Analysis

AGAT WORK ORDER: 17T282586

PROJECT:

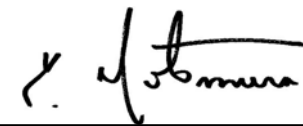
CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 03, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|-------|-----|-------|------|-----------------------------|------|------|-----|------|--------------------|------|------|-----|--|
| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P | |
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm | |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 | |
| K13 (8894159) | 18.2 | <0.05 | 3.3 | 0.034 | 1.80 | 13.5 | 18.3 | 0.75 | 317 | 0.54 | 1.96 | 7.9 | 39.5 | 481 | |
| K14 (8894160) | 17.2 | <0.05 | 3.2 | 0.024 | 1.66 | 14.1 | 13.3 | 0.64 | 341 | 0.42 | 2.12 | 6.0 | 27.1 | 579 | |
| K15 (8894161) | 19.6 | <0.05 | 4.0 | 0.033 | 1.57 | 13.6 | 19.5 | 0.78 | 422 | 0.86 | 1.98 | 9.1 | 37.3 | 670 | |
| K16 (8894162) | 14.9 | 0.07 | 2.3 | 0.023 | 1.49 | 14.1 | 11.4 | 0.58 | 312 | 0.43 | 1.96 | 5.6 | 23.6 | 348 | |
| K17 (8894163) | 16.6 | 0.06 | 2.1 | 0.023 | 1.51 | 8.8 | 14.9 | 0.52 | 277 | 0.59 | 1.98 | 5.7 | 23.5 | 466 | |
| K18 (8894164) | 22.7 | 0.18 | 2.5 | 0.044 | 1.41 | 11.4 | 34.2 | 1.08 | 483 | 1.12 | 1.54 | 11.7 | 53.5 | 731 | |
| K19 (8894165) | 16.8 | <0.05 | 2.4 | 0.021 | 1.60 | 9.3 | 11.4 | 0.54 | 253 | 0.35 | 2.18 | 4.7 | 22.1 | 526 | |
| L1 (8894166) | 16.7 | <0.05 | 2.6 | 0.021 | 1.48 | 11.7 | 16.6 | 0.47 | 235 | 0.60 | 1.86 | 5.9 | 22.5 | 345 | |
| L2 (8894167) | 17.0 | 0.06 | 3.0 | 0.025 | 1.64 | 12.5 | 10.4 | 0.54 | 270 | 0.45 | 2.01 | 5.8 | 21.5 | 342 | |
| L3 (8894168) | 17.4 | <0.05 | 2.7 | 0.027 | 1.59 | 14.7 | 13.3 | 0.59 | 304 | 0.43 | 2.14 | 6.0 | 29.7 | 526 | |
| L4 (8894169) | 16.5 | <0.05 | 2.8 | 0.024 | 1.63 | 11.2 | 12.6 | 0.62 | 306 | 0.51 | 2.25 | 5.4 | 27.2 | 514 | |
| L5 (8894170) | 16.9 | 0.19 | 2.3 | 0.023 | 1.62 | 10.3 | 12.5 | 0.57 | 281 | 0.32 | 2.19 | 5.2 | 24.4 | 518 | |
| L6 (8894171) | 18.0 | 0.17 | 2.2 | 0.024 | 1.64 | 8.0 | 12.6 | 0.47 | 285 | 0.39 | 2.12 | 5.4 | 17.7 | 610 | |
| L7 (8894172) | 15.9 | 0.10 | 1.9 | 0.019 | 1.66 | 9.3 | 10.3 | 0.56 | 261 | 0.26 | 2.26 | 4.1 | 21.9 | 310 | |
| L8 (8894173) | 18.1 | 0.17 | 2.9 | 0.028 | 1.66 | 11.5 | 15.0 | 0.63 | 336 | 0.42 | 2.29 | 5.7 | 27.2 | 447 | |
| L9 (8894174) | 15.0 | 0.21 | 1.5 | 0.017 | 1.64 | 9.4 | 8.1 | 0.32 | 241 | 0.26 | 2.08 | 4.0 | 12.7 | 322 | |
| L10 (8894175) | 15.6 | 0.09 | 1.7 | 0.023 | 1.54 | 7.9 | 12.8 | 0.55 | 270 | 0.32 | 2.19 | 3.6 | 23.7 | 421 | |
| L11 (8894176) | 17.6 | <0.05 | 1.6 | 0.022 | 1.62 | 8.9 | 15.0 | 0.64 | 329 | 0.34 | 2.32 | 4.6 | 28.6 | 559 | |
| L12 (8894177) | 19.4 | <0.05 | 2.2 | 0.029 | 1.47 | 12.6 | 18.7 | 0.71 | 378 | 0.35 | 2.06 | 6.2 | 33.9 | 821 | |
| L13 (8894178) | 15.9 | <0.05 | 3.0 | 0.025 | 1.47 | 13.0 | 12.8 | 0.75 | 399 | 0.24 | 2.12 | 5.1 | 30.2 | 391 | |
| L14 (8894179) | 17.2 | <0.05 | 2.4 | 0.026 | 1.56 | 14.5 | 17.6 | 0.77 | 380 | 0.33 | 2.05 | 5.7 | 40.4 | 522 | |
| L15 (8894180) | 17.2 | 0.13 | 2.1 | 0.031 | 1.36 | 9.3 | 22.6 | 0.84 | 414 | 0.43 | 1.80 | 11.1 | 40.8 | 643 | |
| L16 (8894181) | 16.6 | <0.05 | 2.1 | 0.018 | 1.62 | 9.1 | 11.1 | 0.42 | 238 | 0.28 | 2.10 | 4.8 | 16.4 | 556 | |
| L17 (8894182) | 16.0 | <0.05 | 2.7 | 0.024 | 1.59 | 11.3 | 15.2 | 0.61 | 254 | 0.40 | 2.01 | 5.3 | 29.2 | 275 | |
| L18 (8894183) | 16.8 | <0.05 | 2.2 | 0.028 | 1.59 | 18.0 | 12.9 | 0.79 | 362 | 0.35 | 2.32 | 4.8 | 26.3 | 553 | |
| L19 (8894184) | 22.9 | 0.11 | 3.2 | 0.032 | 2.04 | 24.5 | 35.9 | 1.27 | 300 | 0.33 | 1.71 | 11.9 | 57.2 | 138 | |
| L20 (8894185) | 21.7 | <0.05 | 2.8 | 0.040 | 1.77 | 18.2 | 34.1 | 1.35 | 466 | 0.42 | 2.03 | 8.8 | 47.4 | 173 | |
| L21 (8894186) | 18.2 | 0.07 | 2.1 | 0.028 | 2.01 | 12.1 | 20.7 | 1.00 | 377 | 0.32 | 1.96 | 10.5 | 35.9 | 236 | |
| M1 (8894187) | 18.9 | <0.05 | 2.4 | 0.025 | 1.64 | 16.6 | 15.2 | 0.62 | 357 | 0.59 | 2.27 | 5.7 | 23.1 | 215 | |
| M2 (8894188) | 17.4 | <0.05 | 2.2 | 0.023 | 1.63 | 10.5 | 13.6 | 0.73 | 396 | 0.36 | 2.14 | 5.4 | 28.6 | 282 | |
| M3 (8894189) | 16.6 | <0.05 | 2.5 | 0.022 | 1.59 | 10.5 | 9.8 | 0.47 | 269 | 0.48 | 2.08 | 5.6 | 18.7 | 185 | |
| M4 (8894190) | 19.2 | <0.05 | 3.0 | 0.032 | 1.68 | 15.5 | 14.8 | 0.65 | 330 | 0.57 | 2.16 | 6.8 | 30.9 | 532 | |

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 17T282586

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 03, 2018

SAMPLE TYPE: Other

| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P |
|---------------|------|-------|-----|-------|------|------|------|------|-----|------|------|------|------|------|
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 |
| M5 (8894191) | 20.3 | <0.05 | 3.8 | 0.032 | 1.63 | 20.7 | 20.6 | 0.91 | 433 | 0.54 | 2.04 | 7.4 | 35.7 | 243 |
| M6 (8894192) | 16.5 | 0.16 | 3.4 | 0.036 | 1.64 | 28.4 | 22.3 | 0.86 | 491 | 0.52 | 2.02 | 7.6 | 31.6 | 219 |
| M8 (8894194) | 19.7 | 0.22 | 2.3 | 0.041 | 1.67 | 11.3 | 43.5 | 0.99 | 354 | 1.03 | 1.56 | 8.9 | 58.4 | 445 |
| M9 (8894195) | 20.3 | 0.23 | 2.5 | 0.044 | 1.40 | 17.9 | 39.1 | 2.37 | 383 | 0.94 | 1.15 | 30.2 | 83.7 | 916 |
| M10 (8894196) | 20.0 | <0.05 | 3.0 | 0.032 | 1.89 | 16.0 | 27.8 | 0.77 | 295 | 0.59 | 1.79 | 8.7 | 34.7 | 909 |
| M11 (8894197) | 19.2 | 0.19 | 2.9 | 0.039 | 1.76 | 17.9 | 21.5 | 0.98 | 383 | 0.64 | 1.65 | 11.2 | 50.3 | 1220 |
| M12 (8894198) | 18.7 | <0.05 | 3.2 | 0.033 | 1.52 | 17.6 | 21.6 | 0.67 | 335 | 0.89 | 1.58 | 8.0 | 36.5 | 846 |
| M13 (8894199) | 18.4 | <0.05 | 3.3 | 0.028 | 1.87 | 17.7 | 20.8 | 0.83 | 338 | 0.49 | 1.80 | 7.8 | 39.9 | 552 |
| M14 (8894200) | 18.1 | <0.05 | 2.4 | 0.025 | 1.71 | 11.0 | 15.0 | 0.63 | 328 | 0.46 | 2.19 | 5.7 | 27.5 | 389 |
| M15 (8894201) | 19.6 | <0.05 | 3.1 | 0.042 | 1.59 | 12.6 | 22.9 | 0.90 | 421 | 0.59 | 1.90 | 7.1 | 38.6 | 360 |
| M16 (8894202) | 18.2 | <0.05 | 3.0 | 0.026 | 1.68 | 12.9 | 14.2 | 0.68 | 303 | 0.45 | 2.31 | 5.8 | 29.4 | 222 |
| M17 (8894203) | 17.9 | <0.05 | 2.6 | 0.026 | 1.62 | 10.5 | 19.4 | 0.66 | 279 | 0.48 | 2.15 | 5.1 | 31.2 | 215 |
| M18 (8894204) | 18.3 | <0.05 | 3.1 | 0.029 | 1.54 | 10.2 | 16.2 | 0.69 | 326 | 0.51 | 2.08 | 5.9 | 34.6 | 333 |
| M19 (8894205) | 20.5 | 0.07 | 2.8 | 0.045 | 1.41 | 11.7 | 28.9 | 0.79 | 355 | 0.95 | 1.89 | 6.9 | 41.2 | 381 |
| M20 (8894206) | 17.2 | <0.05 | 2.8 | 0.025 | 1.58 | 12.0 | 14.9 | 0.68 | 324 | 0.40 | 2.22 | 5.5 | 30.9 | 267 |
| M21 (8894207) | 17.7 | <0.05 | 3.3 | 0.032 | 1.46 | 19.6 | 19.7 | 0.66 | 339 | 0.74 | 1.87 | 7.4 | 28.0 | 416 |
| M22 (8894208) | 17.3 | <0.05 | 3.3 | 0.030 | 1.52 | 13.0 | 18.5 | 0.77 | 367 | 0.56 | 1.85 | 6.8 | 31.5 | 375 |
| M23 (8894209) | 18.5 | <0.05 | 3.6 | 0.029 | 1.53 | 21.3 | 14.4 | 0.66 | 304 | 0.63 | 2.05 | 7.6 | 26.4 | 379 |
| M24 (8894210) | 21.0 | <0.05 | 2.8 | 0.033 | 1.55 | 14.7 | 22.0 | 0.77 | 355 | 0.70 | 1.85 | 7.1 | 30.5 | 431 |
| M25 (8894211) | 18.3 | <0.05 | 3.6 | 0.030 | 1.55 | 15.8 | 19.2 | 0.77 | 407 | 0.54 | 1.95 | 7.1 | 37.7 | 536 |
| M26 (8894212) | 19.5 | <0.05 | 3.6 | 0.030 | 1.57 | 12.2 | 17.9 | 0.60 | 326 | 0.68 | 1.76 | 7.4 | 23.7 | 945 |
| M27 (8894213) | 17.5 | <0.05 | 2.1 | 0.022 | 1.62 | 11.2 | 13.4 | 0.59 | 300 | 0.42 | 2.28 | 4.4 | 25.7 | 465 |
| M28 (8894214) | 18.3 | <0.05 | 2.8 | 0.027 | 1.57 | 12.9 | 16.2 | 0.64 | 331 | 0.45 | 2.13 | 5.6 | 30.9 | 448 |
| M29 (8894215) | 19.1 | <0.05 | 3.3 | 0.025 | 1.56 | 14.4 | 11.0 | 0.44 | 277 | 0.52 | 2.02 | 6.3 | 17.8 | 264 |
| M30 (8894216) | 18.4 | <0.05 | 1.9 | 0.023 | 1.49 | 8.4 | 13.2 | 0.58 | 375 | 0.46 | 2.16 | 5.2 | 23.3 | 561 |
| M31 (8894217) | 17.1 | <0.05 | 2.2 | 0.130 | 1.50 | 14.5 | 12.5 | 0.69 | 367 | 0.30 | 2.28 | 5.8 | 27.9 | 515 |
| M32 (8894218) | 17.5 | <0.05 | 2.7 | 0.023 | 1.55 | 14.7 | 13.6 | 0.67 | 364 | 0.39 | 2.15 | 5.9 | 28.0 | 529 |
| M33 (8894219) | 18.3 | <0.05 | 2.7 | 0.034 | 1.55 | 11.3 | 15.4 | 0.71 | 391 | 0.49 | 2.16 | 6.7 | 30.8 | 497 |
| M34 (8894220) | 18.1 | <0.05 | 3.0 | 0.028 | 1.55 | 15.9 | 15.5 | 0.67 | 387 | 0.42 | 2.19 | 6.1 | 29.2 | 680 |
| M35 (8894221) | 17.9 | <0.05 | 3.4 | 0.029 | 1.44 | 10.7 | 16.6 | 0.67 | 417 | 0.46 | 2.06 | 6.9 | 29.5 | 551 |
| M36 (8894222) | 18.1 | <0.05 | 4.0 | 0.029 | 1.60 | 19.1 | 14.6 | 0.72 | 406 | 0.44 | 2.09 | 6.6 | 32.1 | 613 |
| M37 (8894223) | 18.5 | <0.05 | 2.4 | 0.029 | 1.59 | 11.9 | 16.9 | 0.67 | 346 | 0.39 | 2.08 | 6.0 | 34.1 | 599 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282586

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
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FAX (905)501-0589
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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 03, 2018

SAMPLE TYPE: Other

| Sample ID (AGAT ID) | Analyte: Unit: RDL: | Ga ppm 0.05 | Ge ppm 0.05 | Hf ppm 0.1 | In ppm 0.005 | K % 0.01 | La ppm 0.5 | Li ppm 0.1 | Mg % 0.01 | Mn ppm 1 | Mo ppm 0.05 | Na % 0.01 | Nb ppm 0.1 | Ni ppm 0.5 | P ppm 10 |
|---------------------|---------------------------|-------------------|-------------------|------------------|--------------------|----------------|------------------|------------------|-----------------|----------------|-------------------|-----------------|------------------|------------------|----------------|
| M38 (8894224) | | 18.2 | <0.05 | 2.1 | 0.027 | 1.59 | 14.3 | 17.3 | 0.72 | 339 | 0.44 | 2.19 | 5.6 | 33.0 | 518 |
| M39 (8894225) | | 19.6 | <0.05 | 2.8 | 0.033 | 1.74 | 14.1 | 24.5 | 0.80 | 333 | 0.74 | 1.96 | 7.2 | 45.7 | 464 |
| M40 (8894226) | | 17.7 | <0.05 | 2.6 | 0.026 | 1.61 | 13.7 | 11.9 | 0.71 | 372 | 0.37 | 2.27 | 5.9 | 27.3 | 413 |
| M41 (8894227) | | 19.1 | <0.05 | 2.8 | 0.026 | 1.64 | 10.5 | 16.4 | 0.56 | 304 | 0.57 | 2.13 | 6.1 | 24.8 | 452 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282586

PROJECT:

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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 03, 2018

SAMPLE TYPE: Other

| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl |
|---------------|------|------|--------|------|------|------|------|------|-----|------|-------|------|------|------|
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm |
| RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | 0.01 |
| K13 (8894159) | 12.2 | 60.7 | <0.002 | 0.05 | 0.22 | 9.0 | 0.8 | 1.5 | 282 | 0.57 | <0.01 | 4.1 | 0.28 | 0.28 |
| K14 (8894160) | 11.6 | 52.3 | <0.002 | 0.03 | 0.10 | 8.0 | <0.5 | 4.4 | 326 | 0.46 | <0.01 | 5.0 | 0.28 | 0.25 |
| K15 (8894161) | 12.3 | 48.3 | <0.002 | 0.05 | 0.35 | 10.0 | 0.8 | 1.9 | 307 | 0.95 | 0.06 | 4.7 | 0.38 | 0.27 |
| K16 (8894162) | 17.9 | 43.8 | <0.002 | 0.03 | 0.24 | 7.7 | <0.5 | 1.3 | 304 | 0.47 | <0.01 | 5.1 | 0.24 | 0.23 |
| K17 (8894163) | 11.1 | 47.7 | <0.002 | 0.03 | 0.27 | 7.3 | 0.7 | 1.5 | 310 | 0.46 | <0.01 | 2.5 | 0.24 | 0.23 |
| K18 (8894164) | 17.2 | 45.1 | <0.002 | 0.05 | 0.32 | 10.3 | 1.1 | 2.0 | 256 | 0.85 | 0.02 | 3.9 | 0.59 | 0.23 |
| K19 (8894165) | 10.9 | 50.6 | <0.002 | 0.03 | 0.15 | 6.8 | 0.7 | 1.5 | 338 | 0.33 | <0.01 | 2.8 | 0.20 | 0.25 |
| L1 (8894166) | 11.9 | 45.5 | <0.002 | 0.08 | 0.09 | 7.4 | 1.0 | 16.6 | 278 | 0.48 | <0.01 | 4.0 | 0.24 | 0.24 |
| L2 (8894167) | 11.7 | 51.4 | <0.002 | 0.03 | 0.13 | 7.7 | 0.6 | 1.3 | 306 | 0.40 | <0.01 | 3.9 | 0.23 | 0.26 |
| L3 (8894168) | 11.3 | 50.7 | <0.002 | 0.04 | 0.07 | 8.4 | 1.0 | 1.2 | 322 | 0.43 | <0.01 | 4.4 | 0.25 | 0.24 |
| L4 (8894169) | 11.2 | 49.8 | <0.002 | 0.04 | 0.10 | 7.6 | <0.5 | 1.1 | 332 | 0.41 | <0.01 | 3.2 | 0.23 | 0.25 |
| L5 (8894170) | 11.0 | 49.2 | <0.002 | 0.05 | 0.08 | 7.5 | <0.5 | 1.2 | 335 | 0.43 | <0.01 | 3.2 | 0.22 | 0.23 |
| L6 (8894171) | 11.5 | 52.9 | <0.002 | 0.03 | 0.14 | 6.8 | <0.5 | 1.2 | 325 | 0.38 | <0.01 | 1.8 | 0.23 | 0.25 |
| L7 (8894172) | 10.6 | 50.8 | <0.002 | 0.03 | 0.05 | 6.5 | <0.5 | 1.7 | 342 | 0.33 | <0.01 | 2.9 | 0.18 | 0.25 |
| L8 (8894173) | 11.7 | 52.8 | <0.002 | 0.04 | 0.08 | 7.8 | 0.7 | 1.1 | 348 | 0.43 | <0.01 | 3.4 | 0.26 | 0.25 |
| L9 (8894174) | 11.0 | 48.8 | <0.002 | 0.02 | 0.16 | 4.7 | <0.5 | 1.1 | 307 | 0.29 | <0.01 | 3.4 | 0.18 | 0.24 |
| L10 (8894175) | 10.7 | 47.6 | <0.002 | 0.03 | 0.12 | 6.6 | <0.5 | 1.9 | 320 | 0.29 | <0.01 | 2.2 | 0.18 | 0.23 |
| L11 (8894176) | 11.5 | 52.2 | <0.002 | 0.03 | 0.11 | 7.3 | 0.6 | 1.1 | 353 | 0.37 | <0.01 | 2.5 | 0.21 | 0.25 |
| L12 (8894177) | 12.6 | 51.0 | <0.002 | 0.04 | 0.10 | 8.8 | 0.6 | 2.5 | 316 | 0.45 | <0.01 | 3.5 | 0.28 | 0.25 |
| L13 (8894178) | 10.9 | 49.3 | <0.002 | 0.03 | 0.11 | 8.2 | 0.6 | 1.2 | 321 | 0.38 | <0.01 | 6.4 | 0.27 | 0.23 |
| L14 (8894179) | 11.7 | 53.9 | <0.002 | 0.03 | 0.13 | 8.3 | 0.8 | 1.1 | 316 | 0.41 | <0.01 | 6.0 | 0.27 | 0.26 |
| L15 (8894180) | 11.6 | 49.1 | <0.002 | 0.04 | 0.11 | 9.6 | 0.6 | 1.3 | 281 | 0.93 | <0.01 | 2.7 | 0.31 | 0.23 |
| L16 (8894181) | 10.8 | 52.7 | <0.002 | 0.03 | 0.11 | 5.9 | <0.5 | 1.2 | 312 | 0.33 | <0.01 | 3.0 | 0.21 | 0.24 |
| L17 (8894182) | 11.8 | 49.4 | <0.002 | 0.03 | 0.10 | 7.3 | 0.7 | 1.0 | 302 | 0.39 | <0.01 | 2.9 | 0.21 | 0.24 |
| L18 (8894183) | 15.4 | 51.0 | <0.002 | 0.07 | 0.19 | 9.4 | 1.1 | 1.1 | 331 | 0.35 | <0.01 | 4.3 | 0.26 | 0.26 |
| L19 (8894184) | 16.9 | 72.8 | <0.002 | 0.02 | 0.30 | 13.6 | 0.6 | 2.0 | 247 | 1.17 | 0.07 | 11.0 | 0.35 | 0.48 |
| L20 (8894185) | 13.1 | 66.0 | <0.002 | 0.03 | 0.29 | 13.0 | 0.8 | 1.8 | 259 | 0.81 | 0.03 | 4.8 | 0.43 | 0.35 |
| L21 (8894186) | 11.9 | 64.9 | <0.002 | 0.03 | 0.13 | 9.3 | <0.5 | 1.5 | 289 | 1.12 | <0.01 | 3.2 | 0.30 | 0.30 |
| M1 (8894187) | 12.4 | 55.5 | <0.002 | 0.03 | 0.15 | 8.6 | 0.9 | 1.2 | 341 | 0.45 | <0.01 | 4.3 | 0.26 | 0.26 |
| M2 (8894188) | 11.4 | 54.9 | <0.002 | 0.03 | 0.14 | 8.4 | 0.5 | 1.1 | 304 | 0.47 | <0.01 | 2.6 | 0.24 | 0.26 |
| M3 (8894189) | 11.0 | 51.1 | <0.002 | 0.03 | 0.13 | 7.1 | 0.8 | 1.6 | 318 | 0.42 | <0.01 | 2.9 | 0.24 | 0.24 |
| M4 (8894190) | 14.2 | 57.1 | <0.002 | 0.04 | 0.24 | 8.3 | 1.0 | 1.6 | 327 | 0.52 | <0.01 | 4.1 | 0.29 | 0.26 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282586

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 03, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|------|--------|------|------|-----------------------------|------|------|-----|------|--------------------|------|------|------|--|
| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl | |
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | |
| RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | 0.01 | |
| M5 (8894191) | 12.4 | 57.2 | <0.002 | 0.03 | 0.25 | 10.0 | 1.0 | 1.6 | 287 | 0.60 | <0.01 | 7.1 | 0.34 | 0.30 | |
| M6 (8894192) | 12.9 | 52.7 | <0.002 | 0.03 | 0.16 | 10.6 | 0.6 | 2.3 | 296 | 0.53 | <0.01 | 10.5 | 0.37 | 0.28 | |
| M8 (8894194) | 16.1 | 60.8 | <0.002 | 0.05 | 0.30 | 9.8 | 0.8 | 1.6 | 234 | 0.57 | 0.02 | 3.8 | 0.37 | 0.29 | |
| M9 (8894195) | 14.3 | 50.2 | <0.002 | 0.06 | 0.29 | 11.3 | 1.6 | 2.2 | 173 | 1.92 | 0.03 | 5.8 | 0.52 | 0.23 | |
| M10 (8894196) | 13.4 | 61.8 | <0.002 | 0.05 | 0.20 | 9.2 | 0.9 | 1.6 | 262 | 0.62 | <0.01 | 4.6 | 0.32 | 0.29 | |
| M11 (8894197) | 13.7 | 57.7 | <0.002 | 0.05 | 0.29 | 10.2 | 1.2 | 1.5 | 242 | 0.80 | <0.01 | 6.0 | 0.35 | 0.29 | |
| M12 (8894198) | 13.3 | 50.1 | <0.002 | 0.05 | 0.24 | 8.5 | 1.1 | 1.5 | 232 | 0.57 | <0.01 | 6.6 | 0.31 | 0.27 | |
| M13 (8894199) | 13.0 | 60.3 | <0.002 | 0.04 | 0.19 | 9.4 | 0.8 | 4.6 | 254 | 0.55 | <0.01 | 5.6 | 0.31 | 0.30 | |
| M14 (8894200) | 11.2 | 53.9 | <0.002 | 0.03 | 0.17 | 8.2 | 0.7 | 2.1 | 313 | 0.60 | <0.01 | 3.4 | 0.26 | 0.25 | |
| M15 (8894201) | 12.3 | 56.0 | <0.002 | 0.04 | 0.36 | 10.8 | 0.9 | 1.5 | 255 | 0.48 | <0.01 | 4.3 | 0.34 | 0.25 | |
| M16 (8894202) | 11.7 | 50.9 | <0.002 | 0.03 | 0.11 | 8.4 | 0.8 | 1.2 | 341 | 0.42 | <0.01 | 3.2 | 0.26 | 0.25 | |
| M17 (8894203) | 11.5 | 49.4 | <0.002 | 0.02 | 0.11 | 7.8 | <0.5 | 1.1 | 320 | 0.36 | <0.01 | 2.9 | 0.23 | 0.23 | |
| M18 (8894204) | 12.3 | 51.4 | <0.002 | 0.03 | 0.18 | 8.5 | 0.9 | 1.3 | 299 | 0.41 | <0.01 | 4.9 | 0.29 | 0.24 | |
| M19 (8894205) | 11.9 | 49.6 | <0.002 | 0.05 | 0.32 | 10.4 | 1.2 | 1.6 | 242 | 0.52 | <0.01 | 4.0 | 0.34 | 0.26 | |
| M20 (8894206) | 11.9 | 49.1 | <0.002 | 0.04 | 0.13 | 8.4 | 0.9 | 1.5 | 316 | 0.41 | <0.01 | 4.2 | 0.26 | 0.24 | |
| M21 (8894207) | 12.7 | 48.5 | <0.002 | 0.04 | 0.37 | 9.3 | 1.1 | 1.5 | 259 | 0.86 | 0.07 | 9.7 | 0.31 | 0.27 | |
| M22 (8894208) | 12.5 | 50.3 | <0.002 | 0.04 | 0.26 | 10.0 | 1.0 | 1.5 | 245 | 0.57 | 0.02 | 4.7 | 0.32 | 0.28 | |
| M23 (8894209) | 13.0 | 47.1 | <0.002 | 0.04 | 0.16 | 8.8 | 1.0 | 2.2 | 303 | 0.58 | <0.01 | 10.3 | 0.29 | 0.25 | |
| M24 (8894210) | 11.2 | 53.5 | <0.002 | 0.04 | 0.24 | 9.9 | 1.3 | 1.6 | 244 | 0.55 | 0.02 | 4.8 | 0.33 | 0.27 | |
| M25 (8894211) | 12.7 | 52.9 | <0.002 | 0.04 | 0.30 | 10.2 | 1.0 | 1.6 | 274 | 0.60 | 0.03 | 6.1 | 0.33 | 0.25 | |
| M26 (8894212) | 11.9 | 52.8 | <0.002 | 0.05 | 0.24 | 8.8 | 1.0 | 1.5 | 262 | 0.81 | <0.01 | 4.1 | 0.30 | 0.25 | |
| M27 (8894213) | 10.7 | 51.9 | <0.002 | 0.04 | 0.11 | 7.3 | 1.0 | 1.3 | 339 | 0.34 | <0.01 | 3.3 | 0.23 | 0.24 | |
| M28 (8894214) | 11.4 | 49.9 | <0.002 | 0.04 | 0.10 | 8.4 | 1.1 | 1.6 | 324 | 0.52 | 0.01 | 3.7 | 0.27 | 0.23 | |
| M29 (8894215) | 11.6 | 52.5 | <0.002 | 0.03 | 0.18 | 7.3 | 0.5 | 1.4 | 299 | 0.48 | <0.01 | 4.8 | 0.27 | 0.26 | |
| M30 (8894216) | 10.5 | 50.2 | <0.002 | 0.04 | 0.82 | 7.7 | 0.7 | 1.2 | 329 | 0.37 | <0.01 | 2.3 | 0.24 | 0.23 | |
| M31 (8894217) | 11.5 | 50.2 | <0.002 | 0.03 | 0.14 | 8.4 | 0.5 | 1.2 | 341 | 0.41 | <0.01 | 6.3 | 0.25 | 0.22 | |
| M32 (8894218) | 11.0 | 50.6 | <0.002 | 0.03 | 0.15 | 8.7 | 0.8 | 10.6 | 314 | 0.43 | <0.01 | 5.0 | 0.27 | 0.23 | |
| M33 (8894219) | 11.0 | 51.0 | <0.002 | 0.04 | 0.12 | 9.0 | 0.8 | 1.3 | 326 | 0.47 | <0.01 | 4.0 | 0.30 | 0.23 | |
| M34 (8894220) | 12.0 | 50.9 | <0.002 | 0.04 | 0.10 | 8.8 | <0.5 | 16.2 | 330 | 0.44 | <0.01 | 5.7 | 0.31 | 0.25 | |
| M35 (8894221) | 10.6 | 46.8 | <0.002 | 0.04 | 0.16 | 9.2 | 0.8 | 1.3 | 303 | 0.55 | 0.02 | 3.9 | 0.34 | 0.22 | |
| M36 (8894222) | 12.1 | 52.4 | <0.002 | 0.04 | 0.23 | 9.3 | 1.2 | 1.3 | 315 | 0.48 | <0.01 | 11.1 | 0.32 | 0.25 | |
| M37 (8894223) | 10.9 | 54.0 | <0.002 | 0.04 | 0.10 | 8.8 | 0.7 | 1.2 | 304 | 0.44 | <0.01 | 4.0 | 0.28 | 0.24 | |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282586

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
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 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 03, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|------|--------|------|------|-----------------------------|-----|-----|-----|------|--------------------|-----|------|------|--|
| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl | |
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | |
| Sample ID (AGAT ID) | RDL: | | | | | | | | | | | | | | |
| M38 (8894224) | 11.1 | 50.7 | <0.002 | 0.04 | 0.09 | 8.5 | 0.8 | 1.2 | 321 | 0.46 | <0.01 | 6.9 | 0.28 | 0.24 | |
| M39 (8894225) | 13.3 | 57.9 | <0.002 | 0.04 | 0.17 | 9.0 | 1.1 | 1.4 | 291 | 0.49 | <0.01 | 5.2 | 0.30 | 0.27 | |
| M40 (8894226) | 11.4 | 54.0 | <0.002 | 0.03 | 0.10 | 8.5 | 0.9 | 1.2 | 347 | 0.41 | <0.01 | 3.2 | 0.28 | 0.26 | |
| M41 (8894227) | 11.6 | 53.8 | <0.002 | 0.03 | 0.15 | 7.6 | 0.7 | 1.2 | 315 | 0.44 | <0.01 | 3.7 | 0.27 | 0.26 | |

Certified By:



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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | DATE REPORTED: Jan 03, 2018 | | | SAMPLE TYPE: Other |
|----------------------------|-----------------------------|-------|------|-----------------------------|------|------|--------------------|
| Analyte: | U | V | W | Y | Zn | Zr | |
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm | |
| Sample ID (AGAT ID) | RDL: | 0.005 | 0.5 | 0.1 | 0.1 | 0.5 | 0.5 |
| K13 (8894159) | | 0.913 | 57.5 | 0.5 | 12.2 | 40.7 | 165 |
| K14 (8894160) | | 0.850 | 58.9 | 0.3 | 11.3 | 45.7 | 150 |
| K15 (8894161) | | 1.00 | 85.3 | 0.6 | 12.7 | 64.9 | 169 |
| K16 (8894162) | | 0.835 | 53.8 | 0.3 | 10.2 | 42.2 | 105 |
| K17 (8894163) | | 0.629 | 59.0 | 0.3 | 9.8 | 56.0 | 101 |
| K18 (8894164) | | 0.969 | 117 | 0.7 | 11.2 | 102 | 125 |
| K19 (8894165) | | 0.602 | 52.6 | 0.2 | 9.2 | 26.3 | 115 |
| L1 (8894166) | | 0.783 | 51.8 | 0.2 | 9.4 | 23.9 | 122 |
| L2 (8894167) | | 0.737 | 48.8 | 0.2 | 9.9 | 36.5 | 141 |
| L3 (8894168) | | 0.753 | 57.3 | 0.2 | 11.1 | 48.1 | 129 |
| L4 (8894169) | | 0.664 | 53.1 | 0.2 | 10.6 | 39.7 | 135 |
| L5 (8894170) | | 0.634 | 53.1 | 0.1 | 9.6 | 36.3 | 110 |
| L6 (8894171) | | 0.536 | 50.6 | 0.2 | 8.5 | 52.8 | 101 |
| L7 (8894172) | | 0.519 | 45.9 | <0.1 | 8.6 | 23.7 | 90.4 |
| L8 (8894173) | | 0.661 | 62.8 | 0.2 | 10.7 | 33.3 | 133 |
| L9 (8894174) | | 0.571 | 38.2 | 0.1 | 5.9 | 28.3 | 69.5 |
| L10 (8894175) | | 0.562 | 47.0 | <0.1 | 7.6 | 38.6 | 76.1 |
| L11 (8894176) | | 0.475 | 54.7 | 0.2 | 9.3 | 36.0 | 73.2 |
| L12 (8894177) | | 0.683 | 75.0 | 0.2 | 11.0 | 36.2 | 99.5 |
| L13 (8894178) | | 0.802 | 65.5 | 0.2 | 10.5 | 29.7 | 141 |
| L14 (8894179) | | 0.677 | 67.3 | 0.2 | 11.2 | 46.7 | 115 |
| L15 (8894180) | | 0.730 | 79.7 | 0.4 | 12.3 | 39.0 | 90.8 |
| L16 (8894181) | | 0.571 | 43.1 | 0.1 | 8.7 | 20.9 | 100 |
| L17 (8894182) | | 0.690 | 46.9 | 0.2 | 8.8 | 25.4 | 127 |
| L18 (8894183) | | 1.24 | 54.9 | 0.2 | 14.1 | 55.5 | 90.9 |
| L19 (8894184) | | 1.35 | 89.3 | 0.7 | 12.7 | 51.7 | 126 |
| L20 (8894185) | | 1.19 | 95.4 | 0.6 | 13.7 | 47.2 | 128 |
| L21 (8894186) | | 0.710 | 67.7 | 0.3 | 9.4 | 40.5 | 98.2 |
| M1 (8894187) | | 0.950 | 57.0 | 0.2 | 15.4 | 34.4 | 113 |
| M2 (8894188) | | 0.664 | 56.9 | 0.2 | 11.2 | 62.1 | 105 |
| M3 (8894189) | | 0.696 | 49.5 | 0.2 | 9.6 | 23.5 | 121 |
| M4 (8894190) | | 0.843 | 62.3 | 0.3 | 12.5 | 41.9 | 136 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282586

PROJECT:

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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 03, 2018

SAMPLE TYPE: Other

| Analyte: | U | V | W | Y | Zn | Zr |
|---------------------|-------|------|-----|------|------|------|
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm |
| RDL: | 0.005 | 0.5 | 0.1 | 0.1 | 0.5 | 0.5 |
| Sample ID (AGAT ID) | | | | | | |
| M5 (8894191) | 1.31 | 74.6 | 0.4 | 15.4 | 52.4 | 182 |
| M6 (8894192) | 1.18 | 77.4 | 0.3 | 15.2 | 37.7 | 167 |
| M8 (8894194) | 1.01 | 81.7 | 0.6 | 10.1 | 63.6 | 109 |
| M9 (8894195) | 1.26 | 96.7 | 1.0 | 10.6 | 84.5 | 113 |
| M10 (8894196) | 1.05 | 60.7 | 0.4 | 12.0 | 80.4 | 138 |
| M11 (8894197) | 1.14 | 74.4 | 0.4 | 13.6 | 65.3 | 132 |
| M12 (8894198) | 1.19 | 72.0 | 0.5 | 12.0 | 79.9 | 145 |
| M13 (8894199) | 1.01 | 65.0 | 0.3 | 11.2 | 62.7 | 153 |
| M14 (8894200) | 0.752 | 54.3 | 0.2 | 10.1 | 50.2 | 110 |
| M15 (8894201) | 0.994 | 90.8 | 0.4 | 12.6 | 57.6 | 149 |
| M16 (8894202) | 0.727 | 59.5 | 0.2 | 11.3 | 28.2 | 137 |
| M17 (8894203) | 0.727 | 65.2 | 0.2 | 9.6 | 24.5 | 116 |
| M18 (8894204) | 0.964 | 71.2 | 0.3 | 11.2 | 33.1 | 127 |
| M19 (8894205) | 1.14 | 95.7 | 0.5 | 12.2 | 39.4 | 128 |
| M20 (8894206) | 0.782 | 60.4 | 0.2 | 10.7 | 29.1 | 132 |
| M21 (8894207) | 1.17 | 76.9 | 0.5 | 11.6 | 41.4 | 139 |
| M22 (8894208) | 1.10 | 80.2 | 0.4 | 11.4 | 42.3 | 149 |
| M23 (8894209) | 1.13 | 61.4 | 0.3 | 12.9 | 36.0 | 160 |
| M24 (8894210) | 1.08 | 79.6 | 0.4 | 13.2 | 54.6 | 130 |
| M25 (8894211) | 1.20 | 77.2 | 0.4 | 14.2 | 37.5 | 174 |
| M26 (8894212) | 1.14 | 65.3 | 0.4 | 11.3 | 78.0 | 170 |
| M27 (8894213) | 0.630 | 54.7 | 0.1 | 9.1 | 31.1 | 97.0 |
| M28 (8894214) | 0.763 | 64.4 | 0.2 | 10.7 | 39.7 | 126 |
| M29 (8894215) | 0.889 | 57.1 | 0.3 | 10.0 | 35.3 | 159 |
| M30 (8894216) | 0.599 | 58.3 | 0.2 | 10.0 | 44.9 | 92.6 |
| M31 (8894217) | 0.737 | 64.5 | 0.1 | 11.5 | 29.0 | 95.5 |
| M32 (8894218) | 0.768 | 67.0 | 0.2 | 11.5 | 33.4 | 125 |
| M33 (8894219) | 0.788 | 72.2 | 0.4 | 11.6 | 35.6 | 122 |
| M34 (8894220) | 0.854 | 73.9 | 0.2 | 12.4 | 48.5 | 133 |
| M35 (8894221) | 0.825 | 83.9 | 0.3 | 12.1 | 49.6 | 161 |
| M36 (8894222) | 1.08 | 76.6 | 0.3 | 13.3 | 34.8 | 169 |
| M37 (8894223) | 0.805 | 68.9 | 0.2 | 11.2 | 35.7 | 114 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282586

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 03, 2018

SAMPLE TYPE: Other

| Analyte: | U | V | W | Y | Zn | Zr |
|---------------------|-------|------|-----|------|------|------|
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm |
| Sample ID (AGAT ID) | RDL: | | | | | |
| M38 (8894224) | 0.716 | 67.4 | 0.2 | 10.3 | 37.4 | 98.2 |
| M39 (8894225) | 0.923 | 69.1 | 0.3 | 11.5 | 53.3 | 126 |
| M40 (8894226) | 0.802 | 65.8 | 0.2 | 12.4 | 34.0 | 119 |
| M41 (8894227) | 0.752 | 62.3 | 0.2 | 10.1 | 60.9 | 130 |

Comments: RDL - Reported Detection Limit

8894159-8894227 As, Sb values may be low due to digestion losses.

Certified By:



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| Parameter | REPLICATE #1 | | | | REPLICATE #2 | | | | REPLICATE #3 | | | | REPLICATE #4 | | | |
|-----------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|
| | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD |
| Ag | 8894159 | 0.25 | 0.29 | 14.8% | 8894179 | 0.220 | 0.225 | 2.2% | 8894200 | 1.88 | 1.02 | | 8894221 | 0.30 | 0.27 | 10.5% |
| Al | 8894159 | 7.03 | 7.05 | 0.3% | 8894179 | 6.74 | 6.67 | 1.0% | 8894200 | 6.59 | 6.34 | 3.9% | 8894221 | 6.46 | 6.81 | 5.3% |
| As | 8894159 | 1.63 | 1.67 | 2.4% | 8894179 | 3.1 | 3.8 | 20.3% | 8894200 | 2.6 | 1.8 | | 8894221 | 2.5 | 3.7 | |
| Ba | 8894159 | 515 | 525 | 1.9% | 8894179 | 503 | 508 | 1.0% | 8894200 | 522 | 501 | 4.1% | 8894221 | 466 | 476 | 2.1% |
| Be | 8894159 | 1.56 | 1.56 | 0.0% | 8894179 | 1.56 | 1.59 | 1.9% | 8894200 | 1.45 | 1.29 | 11.7% | 8894221 | 1.40 | 1.41 | 0.7% |
| Bi | 8894159 | 0.103 | 0.109 | 5.7% | 8894179 | 0.10 | 0.16 | | 8894200 | 0.097 | 0.091 | 6.4% | 8894221 | 0.10 | 0.10 | 0.0% |
| Ca | 8894159 | 1.36 | 1.36 | 0.0% | 8894179 | 1.48 | 1.50 | 1.3% | 8894200 | 1.48 | 1.40 | 5.6% | 8894221 | 1.53 | 1.58 | 3.2% |
| Cd | 8894159 | 0.074 | 0.087 | 16.1% | 8894179 | 0.10 | 0.09 | 10.5% | 8894200 | 0.05 | 0.07 | | 8894221 | 0.07 | 0.09 | 25.0% |
| Ce | 8894159 | 33.8 | 34.4 | 1.8% | 8894179 | 32.1 | 18.3 | | 8894200 | 28.9 | 32.1 | 10.5% | 8894221 | 23.7 | 27.6 | 15.2% |
| Co | 8894159 | 16.3 | 16.8 | 3.0% | 8894179 | 16.7 | 16.4 | 1.8% | 8894200 | 10.8 | 10.5 | 2.8% | 8894221 | 11.7 | 12.6 | 7.4% |
| Cr | 8894159 | 71.7 | 72.1 | 0.6% | 8894179 | 74.8 | 74.2 | 0.8% | 8894200 | 55.8 | 54.3 | 2.7% | 8894221 | 77.1 | 78.9 | 2.3% |
| Cs | 8894159 | 1.84 | 1.86 | 1.1% | 8894179 | 1.60 | 1.66 | 3.7% | 8894200 | 1.63 | 1.56 | 4.4% | 8894221 | 1.36 | 1.49 | 9.1% |
| Cu | 8894159 | 8.2 | 12.9 | | 8894179 | 10.9 | 10.7 | 1.9% | 8894200 | 9.57 | 7.85 | 19.7% | 8894221 | 4.0 | 4.0 | 0.0% |
| Fe | 8894159 | 2.35 | 2.36 | 0.4% | 8894179 | 2.69 | 2.67 | 0.7% | 8894200 | 2.11 | 2.04 | 3.4% | 8894221 | 3.06 | 3.21 | 4.8% |
| Ga | 8894159 | 18.2 | 19.1 | 4.8% | 8894179 | 17.2 | 18.1 | 5.1% | 8894200 | 18.1 | 17.3 | 4.5% | 8894221 | 17.9 | 19.3 | 7.5% |
| Ge | 8894159 | < 0.05 | < 0.05 | 0.0% | 8894179 | < 0.05 | < 0.05 | 0.0% | 8894200 | < 0.05 | < 0.05 | 0.0% | 8894221 | < 0.05 | < 0.05 | 0.0% |
| Hf | 8894159 | 3.3 | 3.3 | 0.0% | 8894179 | 2.4 | 2.4 | 0.0% | 8894200 | 2.4 | 2.6 | 8.0% | 8894221 | 3.4 | 3.7 | 8.5% |
| In | 8894159 | 0.034 | 0.033 | 3.0% | 8894179 | 0.026 | 0.030 | 14.3% | 8894200 | 0.0252 | 0.0223 | 12.2% | 8894221 | 0.029 | 0.030 | 3.4% |
| K | 8894159 | 1.80 | 1.80 | 0.0% | 8894179 | 1.56 | 1.54 | 1.3% | 8894200 | 1.71 | 1.68 | 1.8% | 8894221 | 1.44 | 1.51 | 4.7% |
| La | 8894159 | 13.5 | 13.8 | 2.2% | 8894179 | 14.5 | 8.1 | | 8894200 | 11.0 | 12.6 | 13.6% | 8894221 | 10.7 | 12.8 | 17.9% |
| Li | 8894159 | 18.3 | 18.4 | 0.5% | 8894179 | 17.6 | 17.2 | 2.3% | 8894200 | 15.0 | 14.3 | 4.8% | 8894221 | 16.6 | 17.8 | 7.0% |
| Mg | 8894159 | 0.75 | 0.75 | 0.0% | 8894179 | 0.768 | 0.751 | 2.2% | 8894200 | 0.63 | 0.61 | 3.2% | 8894221 | 0.67 | 0.70 | 4.4% |
| Mn | 8894159 | 317 | 313 | 1.3% | 8894179 | 380 | 392 | 3.1% | 8894200 | 328 | 318 | 3.1% | 8894221 | 417 | 437 | 4.7% |
| Mo | 8894159 | 0.540 | 0.648 | 18.2% | 8894179 | 0.33 | 0.33 | 0.0% | 8894200 | 0.46 | 0.41 | 11.5% | 8894221 | 0.46 | 0.46 | 0.0% |
| Na | 8894159 | 1.96 | 1.98 | 1.0% | 8894179 | 2.05 | 2.08 | 1.5% | 8894200 | 2.19 | 2.07 | 5.6% | 8894221 | 2.06 | 2.08 | 1.0% |
| Nb | 8894159 | 7.90 | 7.72 | 2.3% | 8894179 | 5.70 | 6.39 | 11.4% | 8894200 | 5.71 | 5.63 | 1.4% | 8894221 | 6.86 | 6.82 | 0.6% |
| Ni | 8894159 | 39.5 | 41.5 | 4.9% | 8894179 | 40.4 | 39.3 | 2.8% | 8894200 | 27.5 | 27.1 | 1.5% | 8894221 | 29.5 | 29.5 | 0.0% |
| P | 8894159 | 481 | 497 | 3.3% | 8894179 | 522 | 490 | 6.3% | 8894200 | 389 | 403 | 3.5% | 8894221 | 551 | 566 | 2.7% |
| Pb | 8894159 | 12.2 | 13.6 | 10.9% | 8894179 | 11.7 | 11.9 | 1.7% | 8894200 | 11.2 | 11.3 | 0.9% | 8894221 | 10.6 | 10.7 | 0.9% |
| Rb | 8894159 | 60.7 | 62.4 | 2.8% | 8894179 | 53.9 | 56.8 | 5.2% | 8894200 | 53.9 | 53.3 | 1.1% | 8894221 | 46.8 | 49.9 | 6.4% |
| Re | 8894159 | < 0.002 | < 0.002 | 0.0% | 8894179 | < 0.002 | < 0.002 | 0.0% | 8894200 | < 0.002 | < 0.002 | 0.0% | 8894221 | < 0.002 | < 0.002 | 0.0% |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

| | | | | | | | | | | | | | | | | |
|----|---------|--------|--------|-------|---------|--------|--------|-------|---------|--------|--------|-------|---------|-------|--------|-------|
| S | 8894159 | 0.05 | 0.05 | 0.0% | 8894179 | 0.03 | 0.03 | 0.0% | 8894200 | 0.03 | 0.03 | 0.0% | 8894221 | 0.04 | 0.04 | 0.0% |
| Sb | 8894159 | 0.224 | 0.254 | 12.6% | 8894179 | 0.13 | 0.13 | 0.0% | 8894200 | 0.17 | 0.12 | | 8894221 | 0.16 | 0.15 | 6.5% |
| Sc | 8894159 | 9.03 | 9.10 | 0.8% | 8894179 | 8.3 | 8.2 | 1.2% | 8894200 | 8.2 | 8.1 | 1.2% | 8894221 | 9.2 | 9.4 | 2.2% |
| Se | 8894159 | 0.8 | 0.8 | 0.0% | 8894179 | 0.8 | 0.5 | | 8894200 | 0.7 | 0.7 | 0.0% | 8894221 | 0.84 | 1.05 | 22.2% |
| Sn | 8894159 | 1.5 | 1.5 | 0.0% | 8894179 | 1.15 | 1.21 | 5.1% | 8894200 | 2.13 | 2.40 | 11.9% | 8894221 | 1.31 | 1.39 | 5.9% |
| Sr | 8894159 | 282 | 287 | 1.8% | 8894179 | 316 | 311 | 1.6% | 8894200 | 313 | 309 | 1.3% | 8894221 | 303 | 319 | 5.1% |
| Ta | 8894159 | 0.57 | 0.61 | 6.8% | 8894179 | 0.413 | 0.473 | 13.5% | 8894200 | 0.60 | 0.40 | | 8894221 | 0.548 | 0.499 | 9.4% |
| Te | 8894159 | < 0.01 | < 0.01 | 0.0% | 8894179 | < 0.01 | < 0.01 | 0.0% | 8894200 | < 0.01 | < 0.01 | 0.0% | 8894221 | 0.02 | < 0.01 | |
| Th | 8894159 | 4.11 | 4.75 | 14.4% | 8894179 | 6.0 | 2.5 | | 8894200 | 3.43 | 3.76 | 9.2% | 8894221 | 3.9 | 3.9 | 0.0% |
| Ti | 8894159 | 0.283 | 0.273 | 3.6% | 8894179 | 0.27 | 0.28 | 3.6% | 8894200 | 0.26 | 0.25 | 3.9% | 8894221 | 0.34 | 0.34 | 0.0% |
| Tl | 8894159 | 0.280 | 0.298 | 6.2% | 8894179 | 0.26 | 0.27 | 3.8% | 8894200 | 0.25 | 0.25 | 0.0% | 8894221 | 0.22 | 0.23 | 4.4% |
| U | 8894159 | 0.913 | 0.979 | 7.0% | 8894179 | 0.677 | 0.603 | 11.6% | 8894200 | 0.752 | 0.774 | 2.9% | 8894221 | 0.825 | 0.929 | 11.9% |
| V | 8894159 | 57.5 | 58.0 | 0.9% | 8894179 | 67.3 | 65.2 | 3.2% | 8894200 | 54.3 | 53.9 | 0.7% | 8894221 | 83.9 | 82.5 | 1.7% |
| W | 8894159 | 0.5 | 0.5 | 0.0% | 8894179 | 0.2 | 0.2 | 0.0% | 8894200 | 0.2 | 0.2 | 0.0% | 8894221 | 0.3 | 0.3 | 0.0% |
| Y | 8894159 | 12.2 | 11.3 | 7.7% | 8894179 | 11.2 | 10.8 | 3.6% | 8894200 | 10.1 | 10.1 | 0.0% | 8894221 | 12.1 | 12.3 | 1.6% |
| Zn | 8894159 | 40.7 | 44.3 | 8.5% | 8894179 | 46.7 | 48.1 | 3.0% | 8894200 | 50.2 | 43.4 | 14.5% | 8894221 | 49.6 | 51.8 | 4.3% |
| Zr | 8894159 | 165 | 149 | 10.2% | 8894179 | 115 | 114 | 0.9% | 8894200 | 110 | 114 | 3.6% | 8894221 | 161 | 161 | 0.0% |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| Parameter | CRM #1 (ref.SY-4) | | | | CRM #2 (ref.GTS-2A) | | | | CRM #3 (ref.Till-2) | | | | CRM #4 (ref.SY-4) | | | |
|-----------|-------------------|--------|----------|------------|---------------------|--------|----------|------------|---------------------|--------|----------|------------|-------------------|--------|----------|------------|
| | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits |
| Al | 10.95 | 10.76 | 98% | 90% - 110% | 6.96 | 6.52 | 94% | 90% - 110% | 8.17 | 8.5 | 104% | 90% - 110% | 10.95 | 10.96 | 100% | 90% - 110% |
| As | | | | | 124 | 124 | 100% | 90% - 110% | 26 | 28 | 107% | 90% - 110% | | | | |
| Ba | 340 | 336 | 99% | 90% - 110% | 186 | 174 | 93% | 90% - 110% | 540 | 550 | 101% | 90% - 110% | 340 | 342 | 100% | 90% - 110% |
| Be | | | | | | | | | 4.0 | 4.2 | 105% | 90% - 110% | | | | |
| Ca | 5.72 | 5.68 | 99% | 90% - 110% | 4.01 | 3.76 | 94% | 90% - 110% | 0.907 | 0.959 | 106% | 90% - 110% | 5.72 | 5.73 | 100% | 90% - 110% |
| Ce | 122 | 130 | 107% | 90% - 110% | 24 | 22 | 92% | 90% - 110% | 98 | 107 | 110% | 90% - 110% | 122 | 122 | 100% | 90% - 110% |
| Co | 2.8 | 3.0 | 107% | 90% - 110% | 22.1 | 24.2 | 109% | 90% - 110% | | | | | 2.8 | 3.0 | 107% | 90% - 110% |
| Cr | | | | | | | | | 60.3 | 59.3 | 98% | 90% - 110% | | | | |
| Cu | 7 | 7 | 95% | 90% - 110% | 88.6 | 81.6 | 92% | 90% - 110% | 150 | 153 | 102% | 90% - 110% | | | | |
| Fe | 4.34 | 3.98 | 92% | 90% - 110% | 7.56 | 6.85 | 90% | 90% - 110% | 3.77 | 3.72 | 99% | 90% - 110% | 4.34 | 4.05 | 93% | 90% - 110% |
| Ga | 35 | 40 | 114% | 90% - 110% | | | | | | | | | 35 | 39 | 111% | 90% - 110% |
| K | 1.37 | 1.39 | 101% | 90% - 110% | 2.021 | 1.941 | 96% | 90% - 110% | | | | | 1.37 | 1.42 | 104% | 90% - 110% |
| La | 58 | 60 | 104% | 90% - 110% | | | | | 44 | 47 | 106% | 90% - 110% | 58 | 55 | 95% | 90% - 110% |
| Li | 37 | 39 | 105% | 90% - 110% | | | | | 47 | 48 | 103% | 90% - 110% | 37 | 39 | 105% | 90% - 110% |
| Mg | 0.325 | 0.303 | 93% | 90% - 110% | 2.412 | 2.305 | 96% | 90% - 110% | 1.10 | 1.11 | 101% | 90% - 110% | 0.325 | 0.313 | 96% | 90% - 110% |
| Mn | | | | | 1510 | 1360 | 90% | 90% - 110% | 780 | 753 | 97% | 90% - 110% | | | | |
| Mo | | | | | | | | | 14 | 14 | 103% | 90% - 110% | | | | |
| Na | 5.267 | 5.464 | 104% | 90% - 110% | 0.617 | 0.6 | 97% | 90% - 110% | 1.624 | 1.781 | 110% | 90% - 110% | 5.267 | 5.512 | 105% | 90% - 110% |
| Nb | | | | | | | | | 20 | 19 | 95% | 90% - 110% | 13 | 15 | 115% | 90% - 110% |
| Ni | 9 | 9 | 95% | 90% - 110% | 77.1 | 69.8 | 91% | 90% - 110% | 32 | 34 | 105% | 90% - 110% | 9 | 7 | 82% | 90% - 110% |
| P | | | | | 892 | 968 | 109% | 90% - 110% | | | | | | | | |
| Pb | 10 | 10 | 102% | 90% - 110% | | | | | 31 | 33 | 107% | 90% - 110% | 10 | 9 | 95% | 90% - 110% |
| Rb | 55 | 57 | 103% | 90% - 110% | | | | | 143 | 155 | 108% | 90% - 110% | 55 | 55 | 99% | 90% - 110% |
| S | | | | | 0.348 | 0.375 | 108% | 90% - 110% | | | | | | | | |
| Sc | | | | | | | | | 12 | 12 | 104% | 90% - 110% | 1.1 | 0.8 | 74% | 90% - 110% |
| Sr | 1191 | 1231 | 103% | 90% - 110% | 92.8 | 88.7 | 96% | 90% - 110% | 144 | 155 | 107% | 90% - 110% | 1191 | 1246 | 105% | 90% - 110% |
| Ta | 0.9 | 1 | 106% | 90% - 110% | | | | | 1.9 | 1.7 | 89% | 90% - 110% | 0.9 | 1.1 | 122% | 90% - 110% |
| Th | 1.4 | 1.2 | 87% | 90% - 110% | | | | | 18.4 | 18.6 | 101% | 90% - 110% | 1.4 | 1.2 | 83% | 90% - 110% |
| Ti | 0.172 | 0.163 | 95% | 90% - 110% | | | | | 0.53 | 0.48 | 90% | 90% - 110% | 0.172 | 0.168 | 98% | 90% - 110% |
| U | 0.8 | 0.6 | 71% | 90% - 110% | | | | | 5.7 | 5.2 | 91% | 90% - 110% | | | | |
| V | 8 | 7 | 82% | 90% - 110% | | | | | 77 | 76 | 98% | 90% - 110% | 8 | 7 | 89% | 90% - 110% |



AGAT Laboratories

Quality Assurance - Certified Reference materials

AGAT WORK ORDER: 17T282586

PROJECT:

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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

| | | | | | | | | | | | | | | | | |
|----|----|----|-----|------------|-----|-----|-----|------------|-----|-----|------|------------|----|----|-----|------------|
| W | | | | | | | | | 5 | 5 | 100% | 90% - 110% | | | | |
| Y | | | | | | | | | 40 | 37 | 92% | 90% - 110% | | | | |
| Zn | 93 | 92 | 99% | 90% - 110% | 208 | 192 | 92% | 90% - 110% | 130 | 127 | 98% | 90% - 110% | 93 | 88 | 95% | 90% - 110% |

Method Summary

CLIENT NAME: CRUZ COBALT CORP.

AGAT WORK ORDER: 17T282586

PROJECT:

ATTENTION TO: Jason Gigliotti, Jim Nelson

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|----------------|---------------|----------------------|----------------------|
| Solid Analysis | | | |
| Ag | MIN-200-12020 | | ICP-MS |
| Al | MIN-200-12020 | | ICP/OES |
| As | MIN-200-12020 | | ICP-MS |
| Ba | MIN-200-12020 | | ICP-MS |
| Be | MIN-200-12020 | | ICP-MS |
| Bi | MIN-200-12020 | | ICP-MS |
| Ca | MIN-200-12020 | | ICP/OES |
| Cd | MIN-200-12020 | | ICP-MS |
| Ce | MIN-200-12020 | | ICP-MS |
| Co | MIN-200-12020 | | ICP-MS |
| Cr | MIN-200-12020 | | ICP/OES |
| Cs | MIN-200-12020 | | ICP-MS |
| Cu | MIN-200-12020 | | ICP-MS |
| Fe | MIN-200-12020 | | ICP/OES |
| Ga | MIN-200-12020 | | ICP-MS |
| Ge | MIN-200-12020 | | ICP-MS |
| Hf | MIN-200-12020 | | ICP-MS |
| In | MIN-200-12020 | | ICP-MS |
| K | MIN-200-12020 | | ICP/OES |
| La | MIN-200-12020 | | ICP-MS |
| Li | MIN-200-12020 | | ICP-MS |
| Mg | MIN-200-12020 | | ICP/OES |
| Mn | MIN-200-12020 | | ICP/OES |
| Mo | MIN-200-12020 | | ICP-MS |
| Na | MIN-200-12020 | | ICP/OES |
| Nb | MIN-200-12020 | | ICP-MS |
| Ni | MIN-200-12020 | | ICP-MS |
| P | MIN-200-12020 | | ICP/OES |
| Pb | MIN-200-12020 | | ICP-MS |
| Rb | MIN-200-12020 | | ICP-MS |
| Re | MIN-200-12020 | | ICP-MS |
| S | MIN-200-12020 | | ICP/OES |
| Sb | MIN-200-12020 | | ICP-MS |
| Sc | MIN-200-12020 | | ICP-MS |
| Se | MIN-200-12020 | | ICP-MS |
| Sn | MIN-200-12020 | | ICP-MS |
| Sr | MIN-200-12020 | | ICP-MS |
| Ta | MIN-200-12020 | | ICP-MS |
| Te | MIN-200-12020 | | ICP-MS |
| Th | MIN-200-12020 | | ICP-MS |
| Ti | MIN-200-12020 | | ICP/OES |
| Tl | MIN-200-12020 | | ICP-MS |
| U | MIN-200-12020 | | ICP-MS |
| V | MIN-200-12020 | | ICP/OES |
| W | MIN-200-12020 | | ICP-MS |
| Y | MIN-200-12020 | | ICP-MS |
| Zn | MIN-200-12020 | | ICP-MS |
| Zr | MIN-200-12020 | | ICP-MS |



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Page: 1
Total # Pages: 7 (A - D)
Plus Appendix Pages
Finalized Date: 31-AUG-2018
Account: TTB

CERTIFICATE SD18197526

Project: 99421

This report is for 203 Soil samples submitted to our lab in Sudbury, ON, Canada on 10-AUG-2018.

The following have access to data associated with this certificate:

K. RAFFLE

SAMPLE PREPARATION

| ALS CODE | DESCRIPTION |
|----------|--------------------------------|
| WEI-21 | Received Sample Weight |
| LOG-22 | Sample login - Rcd w/o BarCode |
| SCR-41 | Screen to -180um and save both |

ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION |
|----------|-------------------------------|
| ME-MS41 | Ultra Trace Aqua Regia ICP-MS |

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
 Total # Pages: 7 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

Project: 99421

CERTIFICATE OF ANALYSIS SD18197526

| Sample Description | Method | WEI-21 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 |
|--------------------|---------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Analyte | Recvd Wt. | Ag | Al | As | Au | B | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs |
| Units | | kg | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| LOD | | 0.02 | 0.01 | 0.01 | 0.1 | 0.02 | 10 | 10 | 0.05 | 0.01 | 0.01 | 0.01 | 0.02 | 0.1 | 1 | 0.05 |
| 2018KNS001 | | 0.06 | 0.32 | 0.53 | 4.5 | <0.02 | <10 | 70 | 0.10 | 0.20 | 0.34 | 0.85 | 8.40 | 3.4 | 18 | 0.47 |
| 2018KNS002 | | 0.26 | 0.40 | 0.55 | 8.7 | <0.02 | <10 | 50 | 0.13 | 0.26 | 0.21 | 0.30 | 10.00 | 4.0 | 20 | 0.40 |
| 2018KNS003 | | 0.24 | 0.36 | 0.35 | 6.9 | <0.02 | <10 | 30 | 0.06 | 0.26 | 0.10 | 0.14 | 9.67 | 2.0 | 10 | 0.36 |
| 2018KNS004 | | 0.26 | 0.29 | 0.50 | 9.7 | <0.02 | <10 | 30 | 0.11 | 0.27 | 0.08 | 0.12 | 9.63 | 4.5 | 16 | 0.38 |
| 2018KNS005 | | 0.25 | 0.33 | 0.79 | 8.3 | <0.02 | <10 | 40 | 0.20 | 0.28 | 0.12 | 0.10 | 15.05 | 8.5 | 22 | 0.65 |
| 2018KNS006 | | 0.16 | 0.28 | 0.19 | 6.7 | <0.02 | <10 | 60 | 0.05 | 0.36 | 0.14 | 0.46 | 6.31 | 1.9 | 10 | 0.24 |
| 2018KNS007 | | 0.08 | 0.49 | 0.23 | 13.4 | <0.02 | <10 | 30 | 0.05 | 0.54 | 0.13 | 0.18 | 8.67 | 1.9 | 6 | 0.21 |
| 2018KNS008 | | 0.15 | 0.96 | 0.63 | 11.8 | <0.02 | <10 | 100 | 0.20 | 0.48 | 0.29 | 0.59 | 12.85 | 11.2 | 17 | 0.55 |
| 2018KNS009 | | 0.27 | 0.30 | 1.62 | 5.6 | <0.02 | <10 | 90 | 0.58 | 0.18 | 0.22 | 0.16 | 74.7 | 7.4 | 35 | 0.75 |
| 2018KNS010 | | 0.16 | 0.84 | 0.25 | 10.6 | <0.02 | <10 | 50 | 0.10 | 0.69 | 0.15 | 0.77 | 7.77 | 2.8 | 12 | 0.24 |
| 2018KNS011 | | 0.16 | 0.67 | 0.33 | 12.3 | <0.02 | <10 | 70 | 0.14 | 0.64 | 0.12 | 0.27 | 7.67 | 1.4 | 13 | 0.17 |
| 2018KNS012 | | 0.08 | 0.65 | 0.43 | 27.4 | <0.02 | <10 | 100 | 0.15 | 1.51 | 0.19 | 1.28 | 7.81 | 3.4 | 15 | 0.33 |
| 2018KNS014 | | 0.10 | 1.71 | 0.53 | 21.3 | <0.02 | <10 | 70 | 0.17 | 1.07 | 0.37 | 0.93 | 6.87 | 6.0 | 23 | 0.39 |
| 2018KNS015 | | 0.07 | 0.74 | 0.25 | 18.7 | <0.02 | <10 | 100 | 0.12 | 1.39 | 0.34 | 1.34 | 5.05 | 3.9 | 7 | 0.22 |
| 2018KNS016 | | 0.07 | 0.81 | 0.22 | 18.1 | <0.02 | <10 | 60 | 0.08 | 1.15 | 0.15 | 0.79 | 4.83 | 3.5 | 6 | 0.25 |
| 2018KNS017 | | 0.16 | 0.26 | 0.20 | 7.6 | <0.02 | <10 | 120 | 0.11 | 0.87 | 0.19 | 1.17 | 6.34 | 2.3 | 7 | 0.19 |
| 2018KNS018 | | 0.09 | 2.57 | 0.27 | 13.6 | <0.02 | <10 | 160 | 0.21 | 1.36 | 0.33 | 0.53 | 8.39 | 3.2 | 6 | 0.35 |
| 2018KNS019 | | 0.08 | 1.87 | 0.16 | 14.7 | <0.02 | <10 | 90 | 0.10 | 1.01 | 0.51 | 1.45 | 3.47 | 4.9 | 6 | 0.21 |
| 2018KNS020 | | 0.08 | 2.13 | 0.15 | 16.1 | <0.02 | <10 | 100 | 0.12 | 1.02 | 0.54 | 1.47 | 2.90 | 5.0 | 5 | 0.20 |
| 2018KNS021 | | 0.28 | 0.35 | 0.94 | 104.5 | <0.02 | <10 | 40 | 0.37 | 0.27 | 0.23 | <10 | 32.5 | 39.6 | 22 | 0.55 |
| 2018KNS022 | | 0.06 | 1.84 | 0.33 | 14.4 | <0.02 | <10 | 100 | 0.14 | 1.64 | 0.35 | 1.06 | 6.21 | 21.2 | 6 | 0.62 |
| 2018KNS023 | | 0.06 | 1.21 | 0.30 | 8.9 | <0.02 | <10 | 180 | 0.12 | 0.91 | 0.53 | 1.54 | 6.00 | 12.4 | 9 | 0.45 |
| 2018KNS024 | | 0.24 | 0.30 | 0.47 | 7.3 | <0.02 | <10 | 50 | 0.15 | 0.25 | 0.13 | 0.20 | 10.90 | 3.7 | 15 | 0.53 |
| 2018KNS025 | | 0.07 | 0.70 | 0.25 | 9.1 | <0.02 | <10 | 90 | 0.12 | 0.83 | 0.20 | 0.71 | 7.95 | 2.5 | 7 | 0.20 |
| 2018KNS026 | | 0.36 | 0.33 | 0.98 | 9.4 | <0.02 | <10 | 40 | 0.20 | 0.29 | 0.10 | 0.14 | 18.45 | 5.7 | 28 | 0.68 |
| 2018KNS027 | | 0.06 | 2.10 | 0.17 | 12.8 | <0.02 | <10 | 150 | 0.12 | 1.24 | 0.26 | 0.93 | 3.90 | 3.2 | 5 | 0.18 |
| 2018KNS028 | | 0.08 | 1.45 | 0.27 | 23.8 | <0.02 | <10 | 130 | 0.13 | 2.02 | 0.25 | 1.71 | 8.65 | 4.3 | 6 | 0.33 |
| 2018KNS029 | | 0.06 | 1.30 | 0.32 | 17.0 | 0.06 | <10 | 150 | 0.18 | 2.24 | 0.26 | 1.30 | 7.44 | 10.4 | 9 | 0.38 |
| 2018KNS030 | | 0.07 | 0.80 | 0.31 | 19.1 | <0.02 | <10 | 150 | 0.15 | 1.94 | 0.31 | 1.60 | 7.79 | 4.2 | 8 | 0.29 |
| 2018KNS031 | | 0.13 | 0.67 | 0.36 | 16.8 | <0.02 | <10 | 30 | 0.08 | 0.78 | 0.14 | 0.22 | 10.85 | 2.5 | 11 | 0.36 |
| 2018KNS032 | | 0.09 | 0.50 | 0.16 | 14.8 | <0.02 | <10 | 140 | 0.10 | 1.00 | 0.26 | 0.58 | 7.44 | 2.9 | 6 | 0.22 |
| 2018KNS034 | | 0.11 | 1.96 | 0.35 | 36.7 | <0.02 | <10 | 220 | 0.18 | 2.01 | 0.58 | 2.90 | 8.75 | 6.9 | 14 | 0.52 |
| 2018KNS035 | | 0.22 | 0.40 | 0.70 | 15.9 | <0.02 | <10 | 30 | 0.11 | 0.30 | 0.20 | 0.22 | 10.15 | 3.3 | 20 | 0.37 |
| 2018KNS036 | | 0.29 | 0.33 | 0.62 | 6.9 | <0.02 | <10 | 30 | 0.14 | 0.21 | 0.15 | 0.18 | 12.45 | 4.3 | 18 | 0.34 |
| 2018KNS037 | | 0.08 | 1.12 | 0.38 | 16.9 | <0.02 | <10 | 140 | 0.28 | 1.72 | 0.31 | 1.70 | 13.60 | 4.4 | 14 | 0.36 |
| 2018KNS038 | | 0.19 | 0.46 | 0.88 | 11.1 | <0.02 | <10 | 60 | 0.22 | 0.31 | 0.27 | 0.35 | 13.20 | 6.1 | 26 | 0.61 |
| 2018KNS039 | | 0.23 | 0.19 | 0.62 | 5.7 | <0.02 | <10 | 40 | 0.14 | 0.20 | 0.14 | 0.17 | 8.73 | 2.9 | 15 | 0.32 |
| 2018KNS040 | | 0.26 | 0.19 | 0.61 | 5.3 | <0.02 | <10 | 30 | 0.14 | 0.19 | 0.13 | 0.15 | 8.81 | 2.8 | 14 | 0.32 |
| 2018KNS041 | | 0.08 | 1.87 | 0.38 | 31.8 | <0.02 | <10 | 210 | 0.21 | 3.01 | 0.50 | 3.82 | 8.93 | 5.1 | 9 | 0.36 |
| 2018KNS042 | | 0.07 | 2.10 | 0.30 | 34.3 | <0.02 | <10 | 130 | 0.12 | 1.82 | 0.45 | 0.86 | 6.68 | 5.7 | 5 | 0.26 |



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Page: 2 - B
 Total # Pages: 7 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

Project: 99421

CERTIFICATE OF ANALYSIS SD18197526

| Sample Description | Method | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|
| | Analyte | Cu | Fe | Ga | Ge | Hf | Hg | In | K | La | Li | Mg | Mn | Mo | Na | Nb |
| Units | | ppm | % | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm |
| LOD | | 0.2 | 0.01 | 0.05 | 0.05 | 0.02 | 0.01 | 0.005 | 0.01 | 0.2 | 0.1 | 0.01 | 5 | 0.05 | 0.01 | 0.05 |
| 2018KNS001 | | 12.6 | 0.93 | 2.19 | <0.05 | <0.02 | 0.07 | 0.013 | 0.07 | 4.2 | 4.5 | 0.13 | 253 | 0.22 | 0.01 | 0.77 |
| 2018KNS002 | | 9.0 | 1.35 | 3.86 | <0.05 | 0.02 | 0.06 | 0.018 | 0.04 | 4.4 | 4.2 | 0.13 | 316 | 0.28 | <0.01 | 0.89 |
| 2018KNS003 | | 5.7 | 0.59 | 2.77 | <0.05 | <0.02 | 0.05 | 0.016 | 0.02 | 4.6 | 2.5 | 0.07 | 117 | 0.22 | <0.01 | 0.65 |
| 2018KNS004 | | 7.2 | 1.12 | 3.38 | <0.05 | <0.02 | 0.06 | 0.018 | 0.03 | 5.3 | 3.4 | 0.07 | 432 | 0.26 | <0.01 | 0.81 |
| 2018KNS005 | | 10.1 | 1.32 | 3.92 | <0.05 | <0.02 | 0.06 | 0.019 | 0.04 | 8.0 | 7.1 | 0.20 | 671 | 0.27 | <0.01 | 0.92 |
| 2018KNS006 | | 11.6 | 0.58 | 1.66 | <0.05 | <0.02 | 0.06 | 0.023 | 0.03 | 3.2 | 1.0 | 0.03 | 91 | 0.21 | <0.01 | 0.36 |
| 2018KNS007 | | 15.9 | 0.45 | 1.75 | <0.05 | <0.02 | 0.14 | 0.037 | 0.02 | 4.2 | 1.1 | 0.04 | 35 | 0.37 | <0.01 | 0.43 |
| 2018KNS008 | | 25.9 | 0.92 | 2.66 | <0.05 | <0.02 | 0.15 | 0.035 | 0.05 | 6.7 | 4.0 | 0.12 | 714 | 0.53 | <0.01 | 0.41 |
| 2018KNS009 | | 26.2 | 1.28 | 3.80 | 0.08 | 0.02 | 0.13 | 0.019 | 0.05 | 24.6 | 8.8 | 0.24 | 1340 | 0.58 | <0.01 | 0.67 |
| 2018KNS010 | | 20.6 | 0.68 | 1.80 | <0.05 | <0.02 | 0.10 | 0.049 | 0.02 | 4.0 | 1.8 | 0.05 | 97 | 0.36 | <0.01 | 0.39 |
| 2018KNS011 | | 13.6 | 0.68 | 2.88 | <0.05 | <0.02 | 0.07 | 0.044 | 0.03 | 6.2 | 1.2 | 0.03 | 55 | 0.33 | <0.01 | 0.27 |
| 2018KNS012 | | 42.5 | 0.78 | 2.74 | <0.05 | <0.02 | 0.24 | 0.114 | 0.05 | 5.1 | 2.5 | 0.06 | 62 | 0.57 | <0.01 | 0.38 |
| 2018KNS014 | | 30.3 | 1.21 | 3.36 | <0.05 | <0.02 | 0.28 | 0.075 | 0.07 | 4.2 | 3.5 | 0.13 | 141 | 0.66 | <0.01 | 0.61 |
| 2018KNS015 | | 44.2 | 0.41 | 1.19 | 0.05 | <0.02 | 0.34 | 0.100 | 0.06 | 3.5 | 0.6 | 0.04 | 36 | 0.71 | <0.01 | 0.21 |
| 2018KNS016 | | 32.3 | 0.41 | 1.53 | 0.09 | <0.02 | 0.28 | 0.095 | 0.06 | 3.0 | 0.8 | 0.05 | 36 | 0.67 | 0.01 | 0.26 |
| 2018KNS017 | | 26.9 | 0.35 | 1.10 | 0.09 | <0.02 | 0.12 | 0.066 | 0.03 | 6.4 | 0.3 | 0.02 | 27 | 0.30 | 0.01 | 0.15 |
| 2018KNS018 | | 35.3 | 0.39 | 1.89 | 0.10 | <0.02 | 0.36 | 0.101 | 0.05 | 8.7 | 0.9 | 0.04 | 135 | 0.56 | 0.01 | 0.21 |
| 2018KNS019 | | 28.6 | 0.35 | 1.05 | 0.10 | <0.02 | 0.28 | 0.073 | 0.11 | 2.9 | 0.8 | 0.06 | 365 | 0.54 | 0.01 | 0.20 |
| 2018KNS020 | | 26.9 | 0.32 | 0.96 | 0.11 | <0.02 | 0.30 | 0.073 | 0.11 | 2.6 | 0.7 | 0.06 | 439 | 0.55 | 0.01 | 0.17 |
| 2018KNS021 | | 18.2 | 0.93 | 2.99 | 0.12 | <0.02 | 0.11 | 0.018 | 0.03 | 18.0 | 8.6 | 0.21 | 207 | 0.29 | 0.01 | 0.59 |
| 2018KNS022 | | 50.9 | 0.78 | 1.67 | 0.09 | <0.02 | 0.31 | 0.141 | 0.12 | 3.6 | 1.3 | 0.09 | 1280 | 1.03 | 0.01 | 0.20 |
| 2018KNS023 | | 25.4 | 0.56 | 1.88 | 0.08 | <0.02 | 0.25 | 0.058 | 0.10 | 3.0 | 2.2 | 0.10 | 6490 | 0.54 | 0.01 | 0.27 |
| 2018KNS024 | | 7.5 | 1.18 | 3.98 | 0.08 | <0.02 | 0.07 | 0.018 | 0.03 | 5.8 | 4.9 | 0.09 | 438 | 0.39 | 0.01 | 0.72 |
| 2018KNS025 | | 22.5 | 0.41 | 1.77 | 0.09 | <0.02 | 0.11 | 0.058 | 0.05 | 7.4 | 1.2 | 0.04 | 147 | 0.31 | 0.01 | 0.27 |
| 2018KNS026 | | 8.5 | 1.66 | 6.31 | 0.09 | 0.02 | 0.08 | 0.027 | 0.03 | 8.0 | 8.9 | 0.18 | 287 | 0.35 | 0.01 | 1.58 |
| 2018KNS027 | | 32.0 | 0.36 | 1.15 | 0.11 | <0.02 | 0.32 | 0.090 | 0.06 | 2.5 | 0.6 | 0.04 | 95 | 0.52 | 0.01 | 0.16 |
| 2018KNS028 | | 51.5 | 0.66 | 2.01 | 0.11 | <0.02 | 0.44 | 0.176 | 0.10 | 5.0 | 0.6 | 0.04 | 649 | 0.86 | 0.01 | 0.20 |
| 2018KNS029 | | 52.0 | 0.62 | 1.89 | 0.10 | <0.02 | 0.46 | 0.144 | 0.08 | 4.1 | 2.0 | 0.07 | 1120 | 0.81 | 0.01 | 0.25 |
| 2018KNS030 | | 51.9 | 0.58 | 1.78 | 0.11 | <0.02 | 0.39 | 0.134 | 0.06 | 3.9 | 1.2 | 0.05 | 196 | 0.73 | 0.01 | 0.24 |
| 2018KNS031 | | 13.2 | 0.75 | 3.32 | 0.07 | <0.02 | 0.11 | 0.045 | 0.03 | 6.1 | 2.6 | 0.06 | 95 | 0.57 | 0.01 | 0.67 |
| 2018KNS032 | | 23.3 | 0.40 | 1.51 | 0.09 | <0.02 | 0.21 | 0.067 | 0.03 | 3.9 | 0.7 | 0.04 | 94 | 0.57 | 0.01 | 0.28 |
| 2018KNS034 | | 79.5 | 0.87 | 2.43 | 0.11 | <0.02 | 0.47 | 0.150 | 0.07 | 4.4 | 1.7 | 0.07 | 211 | 0.83 | 0.01 | 0.48 |
| 2018KNS035 | | 11.5 | 1.29 | 3.93 | 0.08 | <0.02 | 0.10 | 0.025 | 0.02 | 4.9 | 6.2 | 0.13 | 112 | 0.50 | 0.01 | 1.17 |
| 2018KNS036 | | 7.7 | 1.01 | 3.09 | 0.08 | <0.02 | 0.06 | 0.016 | 0.02 | 6.2 | 4.8 | 0.11 | 208 | 0.21 | 0.01 | 0.72 |
| 2018KNS037 | | 55.4 | 0.65 | 2.25 | 0.10 | <0.02 | 0.28 | 0.131 | 0.06 | 8.8 | 1.6 | 0.06 | 64 | 0.56 | 0.01 | 0.32 |
| 2018KNS038 | | 13.7 | 1.67 | 4.71 | 0.09 | <0.02 | 0.09 | 0.027 | 0.05 | 7.3 | 8.1 | 0.15 | 554 | 0.57 | 0.01 | 0.82 |
| 2018KNS039 | | 5.5 | 1.10 | 4.61 | 0.07 | <0.02 | 0.05 | 0.016 | 0.03 | 4.2 | 5.7 | 0.09 | 182 | 0.26 | 0.01 | 0.97 |
| 2018KNS040 | | 5.0 | 1.07 | 4.57 | 0.07 | <0.02 | 0.05 | 0.014 | 0.03 | 4.2 | 5.7 | 0.08 | 165 | 0.26 | 0.01 | 1.01 |
| 2018KNS041 | | 50.7 | 0.71 | 2.05 | 0.11 | <0.02 | 0.55 | 0.259 | 0.09 | 4.8 | 1.2 | 0.06 | 213 | 0.92 | 0.01 | 0.23 |
| 2018KNS042 | | 46.9 | 0.47 | 1.30 | 0.12 | <0.02 | 0.61 | 0.128 | 0.10 | 6.1 | 0.8 | 0.05 | 148 | 1.03 | 0.02 | 0.19 |



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Page: 2 - C
 Total # Pages: 7 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

Project: 99421

CERTIFICATE OF ANALYSIS SD18197526

| Sample Description | Method Analyte Units LOD | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | |
|--------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| | | Ni | P | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti |
| | | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | | 0.2 | 10 | 0.2 | 0.1 | 0.001 | 0.01 | 0.05 | 0.1 | 0.2 | 0.2 | 0.2 | 0.01 | 0.01 | 0.2 | 0.005 |
| 2018KNS001 | | 14.4 | 630 | 10.7 | 6.4 | 0.001 | 0.08 | 0.17 | 0.7 | 0.8 | 0.5 | 29.4 | <0.01 | 0.03 | 0.5 | 0.040 |
| 2018KNS002 | | 11.0 | 660 | 14.9 | 6.7 | <0.001 | 0.03 | 0.20 | 0.9 | 0.6 | 0.7 | 13.6 | <0.01 | 0.03 | 0.8 | 0.063 |
| 2018KNS003 | | 6.4 | 280 | 15.4 | 4.4 | <0.001 | 0.02 | 0.21 | 0.6 | 0.5 | 0.7 | 8.4 | <0.01 | 0.01 | 0.4 | 0.037 |
| 2018KNS004 | | 9.4 | 320 | 14.6 | 4.4 | <0.001 | 0.02 | 0.24 | 0.7 | 0.4 | 0.6 | 6.8 | <0.01 | 0.03 | 0.7 | 0.048 |
| 2018KNS005 | | 14.4 | 310 | 11.5 | 6.5 | <0.001 | 0.02 | 0.19 | 1.2 | 0.5 | 0.6 | 10.1 | <0.01 | 0.03 | 0.8 | 0.053 |
| 2018KNS006 | | 9.1 | 170 | 24.3 | 3.1 | <0.001 | 0.03 | 0.27 | 0.4 | 0.4 | 0.8 | 11.2 | <0.01 | 0.02 | 0.5 | 0.025 |
| 2018KNS007 | | 13.9 | 260 | 32.9 | 1.5 | 0.001 | 0.05 | 0.58 | 0.4 | 1.1 | 1.0 | 10.1 | <0.01 | 0.02 | 0.8 | 0.025 |
| 2018KNS008 | | 16.4 | 370 | 34.8 | 4.1 | 0.001 | 0.05 | 0.46 | 0.8 | 1.1 | 0.9 | 18.3 | <0.01 | 0.04 | 0.2 | 0.023 |
| 2018KNS009 | | 23.9 | 400 | 7.7 | 5.2 | 0.001 | 0.03 | 0.13 | 2.3 | 0.6 | 0.4 | 13.3 | <0.01 | 0.03 | 0.5 | 0.039 |
| 2018KNS010 | | 14.4 | 290 | 43.7 | 2.6 | <0.001 | 0.04 | 0.45 | 0.6 | 0.8 | 1.4 | 13.2 | <0.01 | 0.04 | 0.4 | 0.027 |
| 2018KNS011 | | 9.1 | 310 | 40.5 | 2.1 | <0.001 | 0.02 | 0.45 | 0.4 | 0.8 | 1.2 | 17.6 | <0.01 | 0.03 | <0.2 | 0.028 |
| 2018KNS012 | | 30.6 | 550 | 91.6 | 5.0 | 0.001 | 0.06 | 0.95 | 0.5 | 1.7 | 2.3 | 20.5 | <0.01 | 0.05 | <0.2 | 0.026 |
| 2018KNS014 | | 26.3 | 720 | 71.6 | 5.4 | 0.001 | 0.08 | 1.08 | 0.9 | 1.6 | 1.9 | 25.1 | <0.01 | 0.06 | 0.2 | 0.041 |
| 2018KNS015 | | 33.9 | 780 | 90.4 | 3.1 | 0.004 | 0.14 | 1.19 | 0.6 | 2.5 | 2.8 | 29.6 | <0.01 | 0.05 | 0.2 | 0.010 |
| 2018KNS016 | | 34.8 | 650 | 57.8 | 4.1 | 0.001 | 0.11 | 0.93 | 0.4 | 2.1 | 2.0 | 20.1 | <0.01 | 0.04 | 0.2 | 0.014 |
| 2018KNS017 | | 19.3 | 290 | 59.8 | 1.9 | <0.001 | 0.04 | 0.49 | 0.3 | 1.4 | 1.4 | 29.1 | <0.01 | 0.03 | <0.2 | 0.011 |
| 2018KNS018 | | 24.5 | 590 | 112.5 | 3.8 | 0.001 | 0.07 | 0.95 | 0.3 | 1.9 | 2.3 | 45.3 | <0.01 | 0.05 | <0.2 | 0.013 |
| 2018KNS019 | | 32.2 | 860 | 51.5 | 4.4 | 0.001 | 0.16 | 0.94 | 0.3 | 2.2 | 2.3 | 38.3 | <0.01 | 0.05 | 0.2 | 0.011 |
| 2018KNS020 | | 32.3 | 930 | 50.2 | 4.5 | <0.001 | 0.17 | 1.07 | 0.3 | 2.2 | 2.3 | 40.2 | <0.01 | 0.05 | <0.2 | 0.009 |
| 2018KNS021 | | 26.5 | 350 | 10.5 | 3.8 | 0.002 | 0.04 | 0.15 | 1.3 | 0.6 | 0.4 | 11.8 | <0.01 | 0.02 | 0.3 | 0.034 |
| 2018KNS022 | | 57.4 | 1350 | 132.5 | 11.0 | 0.001 | 0.16 | 1.18 | 0.5 | 2.3 | 3.3 | 21.9 | <0.01 | 0.07 | <0.2 | 0.012 |
| 2018KNS023 | | 32.2 | 970 | 76.0 | 6.9 | <0.001 | 0.12 | 0.64 | 0.4 | 1.6 | 2.1 | 28.0 | <0.01 | 0.06 | <0.2 | 0.016 |
| 2018KNS024 | | 8.9 | 370 | 14.2 | 5.8 | <0.001 | 0.02 | 0.24 | 0.8 | 0.5 | 0.6 | 10.3 | <0.01 | 0.02 | 0.8 | 0.051 |
| 2018KNS025 | | 20.4 | 430 | 58.5 | 2.7 | 0.001 | 0.05 | 0.42 | 0.3 | 1.2 | 1.5 | 20.3 | <0.01 | 0.02 | <0.2 | 0.017 |
| 2018KNS026 | | 15.8 | 340 | 14.3 | 8.0 | <0.001 | 0.02 | 0.27 | 1.4 | 0.6 | 0.8 | 9.8 | <0.01 | 0.04 | 1.6 | 0.083 |
| 2018KNS027 | | 26.2 | 830 | 81.4 | 2.8 | 0.001 | 0.11 | 1.02 | 0.3 | 2.5 | 2.4 | 22.9 | <0.01 | 0.04 | <0.2 | 0.009 |
| 2018KNS028 | | 27.9 | 1110 | 104.0 | 3.3 | 0.003 | 0.11 | 1.45 | 0.1 | 2.1 | 3.3 | 13.6 | <0.01 | 0.08 | <0.2 | 0.006 |
| 2018KNS029 | | 39.9 | 770 | 145.5 | 5.8 | 0.002 | 0.09 | 1.78 | 0.5 | 2.9 | 3.2 | 22.1 | <0.01 | 0.07 | 0.2 | 0.015 |
| 2018KNS030 | | 34.6 | 580 | 122.5 | 4.4 | 0.003 | 0.07 | 1.28 | 0.4 | 2.2 | 2.7 | 22.4 | <0.01 | 0.08 | <0.2 | 0.014 |
| 2018KNS031 | | 12.6 | 250 | 42.7 | 3.2 | <0.001 | 0.03 | 0.62 | 0.7 | 0.9 | 1.3 | 10.5 | <0.01 | 0.05 | 0.7 | 0.035 |
| 2018KNS032 | | 20.8 | 370 | 69.6 | 2.9 | 0.001 | 0.05 | 0.75 | 0.5 | 1.4 | 1.7 | 22.7 | <0.01 | 0.05 | 0.4 | 0.017 |
| 2018KNS034 | | 50.9 | 670 | 135.0 | 5.9 | 0.003 | 0.13 | 1.56 | 0.7 | 2.9 | 3.0 | 43.3 | <0.01 | 0.08 | 0.2 | 0.029 |
| 2018KNS035 | | 13.3 | 270 | 15.4 | 2.9 | <0.001 | 0.05 | 0.39 | 0.9 | 0.9 | 0.7 | 13.0 | <0.01 | 0.04 | 0.8 | 0.067 |
| 2018KNS036 | | 10.8 | 270 | 11.4 | 4.0 | <0.001 | 0.02 | 0.19 | 0.8 | 0.4 | 0.5 | 10.1 | <0.01 | 0.02 | 0.7 | 0.044 |
| 2018KNS037 | | 29.6 | 570 | 123.0 | 3.5 | 0.002 | 0.07 | 0.79 | 0.3 | 2.2 | 2.7 | 32.1 | <0.01 | 0.05 | <0.2 | 0.017 |
| 2018KNS038 | | 15.1 | 450 | 17.3 | 8.5 | <0.001 | 0.04 | 0.29 | 1.2 | 0.5 | 0.7 | 14.9 | <0.01 | 0.04 | 0.6 | 0.056 |
| 2018KNS039 | | 8.2 | 210 | 9.8 | 5.2 | <0.001 | 0.02 | 0.15 | 0.7 | 0.4 | 0.5 | 11.2 | <0.01 | 0.02 | 0.6 | 0.057 |
| 2018KNS040 | | 8.1 | 190 | 9.1 | 5.1 | <0.001 | 0.02 | 0.15 | 0.7 | 0.3 | 0.5 | 11.0 | <0.01 | 0.01 | 1.3 | 0.057 |
| 2018KNS041 | | 62.7 | 630 | 188.0 | 4.1 | 0.004 | 0.08 | 2.10 | 0.3 | 3.9 | 3.9 | 19.3 | <0.01 | 0.12 | <0.2 | 0.012 |
| 2018KNS042 | | 49.5 | 1190 | 96.1 | 4.1 | 0.002 | 0.20 | 1.96 | 0.4 | 2.9 | 2.9 | 26.8 | <0.01 | 0.08 | <0.2 | 0.006 |



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Page: 2 - D
 Total # Pages: 7 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

Project: 99421

CERTIFICATE OF ANALYSIS SD18197526

| Sample Description | Method Analyte Units LOD | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | |
|--------------------|-----------------------------------|---------|---------|---------|---------|---------|---------|------|
| | | Tl | U | V | W | Y | Zn | Zr |
| | | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | | 0.02 | 0.05 | 1 | 0.05 | 0.05 | 2 | 0.5 |
| 2018KNS001 | | 0.04 | 0.16 | 24 | 0.08 | 0.99 | 39 | 0.5 |
| 2018KNS002 | | 0.04 | 0.28 | 35 | 0.07 | 1.24 | 42 | 0.5 |
| 2018KNS003 | | 0.04 | 0.19 | 16 | 0.05 | 0.88 | 13 | <0.5 |
| 2018KNS004 | | 0.04 | 0.18 | 27 | 0.07 | 0.95 | 23 | <0.5 |
| 2018KNS005 | | 0.05 | 0.29 | 27 | 0.07 | 1.87 | 36 | <0.5 |
| 2018KNS006 | | 0.03 | 0.13 | 19 | 0.05 | 0.61 | 30 | <0.5 |
| 2018KNS007 | | 0.03 | 0.18 | 14 | 0.08 | 0.79 | 16 | <0.5 |
| 2018KNS008 | | 0.05 | 0.31 | 23 | 0.09 | 1.68 | 46 | <0.5 |
| 2018KNS009 | | 0.09 | 0.97 | 30 | 0.08 | 9.04 | 20 | <0.5 |
| 2018KNS010 | | 0.04 | 0.15 | 19 | 0.11 | 0.86 | 28 | <0.5 |
| 2018KNS011 | | 0.05 | 0.15 | 21 | 0.09 | 1.31 | 15 | <0.5 |
| 2018KNS012 | | 0.06 | 0.21 | 18 | 0.13 | 1.10 | 74 | <0.5 |
| 2018KNS014 | | 0.06 | 0.22 | 35 | 0.17 | 1.13 | 60 | <0.5 |
| 2018KNS015 | | 0.03 | 0.19 | 8 | 0.15 | 1.01 | 57 | <0.5 |
| 2018KNS016 | | 0.03 | 0.15 | 9 | 0.13 | 0.76 | 35 | <0.5 |
| 2018KNS017 | | 0.02 | 0.15 | 7 | 0.08 | 1.39 | 18 | <0.5 |
| 2018KNS018 | | 0.04 | 0.21 | 8 | 0.10 | 1.62 | 37 | <0.5 |
| 2018KNS019 | | 0.06 | 0.14 | 7 | 0.14 | 0.60 | 67 | <0.5 |
| 2018KNS020 | | 0.06 | 0.13 | 6 | 0.14 | 0.55 | 73 | <0.5 |
| 2018KNS021 | | 0.06 | 0.59 | 20 | 0.07 | 6.02 | 19 | <0.5 |
| 2018KNS022 | | 0.12 | 0.21 | 21 | 0.25 | 1.20 | 82 | <0.5 |
| 2018KNS023 | | 0.14 | 0.16 | 12 | 0.13 | 0.71 | 140 | <0.5 |
| 2018KNS024 | | 0.04 | 0.25 | 32 | 0.08 | 1.09 | 30 | <0.5 |
| 2018KNS025 | | 0.03 | 0.16 | 9 | 0.08 | 0.97 | 24 | <0.5 |
| 2018KNS026 | | 0.06 | 0.30 | 39 | 0.09 | 1.57 | 23 | 0.8 |
| 2018KNS027 | | 0.05 | 0.15 | 7 | 0.12 | 0.64 | 93 | <0.5 |
| 2018KNS028 | | 0.09 | 0.32 | 9 | 0.12 | 1.81 | 87 | <0.5 |
| 2018KNS029 | | 0.07 | 0.26 | 13 | 0.20 | 1.09 | 56 | <0.5 |
| 2018KNS030 | | 0.04 | 0.26 | 11 | 0.16 | 1.20 | 44 | <0.5 |
| 2018KNS031 | | 0.06 | 0.25 | 25 | 0.12 | 0.98 | 14 | <0.5 |
| 2018KNS032 | | 0.03 | 0.18 | 11 | 0.11 | 0.86 | 30 | <0.5 |
| 2018KNS034 | | 0.05 | 0.26 | 24 | 0.19 | 1.40 | 91 | <0.5 |
| 2018KNS035 | | 0.05 | 0.29 | 35 | 0.11 | 1.10 | 19 | 0.6 |
| 2018KNS036 | | 0.04 | 0.23 | 26 | 0.06 | 1.28 | 22 | <0.5 |
| 2018KNS037 | | 0.03 | 0.29 | 14 | 0.12 | 1.79 | 79 | <0.5 |
| 2018KNS038 | | 0.05 | 0.28 | 42 | 0.08 | 1.37 | 55 | <0.5 |
| 2018KNS039 | | 0.04 | 0.18 | 29 | 0.06 | 0.91 | 30 | <0.5 |
| 2018KNS040 | | 0.04 | 0.21 | 28 | 0.06 | 0.97 | 28 | <0.5 |
| 2018KNS041 | | 0.05 | 0.30 | 13 | 0.22 | 1.67 | 97 | <0.5 |
| 2018KNS042 | | 0.06 | 0.26 | 7 | 0.19 | 1.13 | 119 | <0.5 |



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Page: 3 - A
 Total # Pages: 7 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

Project: 99421

CERTIFICATE OF ANALYSIS SD18197526

| Sample Description | Method | WEI-21 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 |
|--------------------|---------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Analyte | Recvd Wt. | Ag | Al | As | Au | B | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs |
| Units | | kg | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| LOD | | 0.02 | 0.01 | 0.01 | 0.1 | 0.02 | 10 | 10 | 0.05 | 0.01 | 0.01 | 0.01 | 0.02 | 0.1 | 1 | 0.05 |
| 2018KNS043 | | 0.07 | 2.66 | 0.34 | 22.8 | <0.02 | <10 | 80 | 0.21 | 1.47 | 0.53 | 1.45 | 9.18 | 4.4 | 6 | 0.29 |
| 2018KNS044 | | 0.10 | 3.42 | 0.26 | 22.3 | <0.02 | <10 | 100 | 0.16 | 1.83 | 0.66 | 1.74 | 7.68 | 4.6 | 6 | 0.31 |
| 2018KNS045 | | 0.09 | 1.80 | 0.21 | 21.3 | <0.02 | <10 | 40 | 0.06 | 1.46 | 0.23 | 0.45 | 10.75 | 3.2 | 6 | 0.29 |
| 2018KNS046 | | 0.08 | 3.26 | 0.22 | 30.8 | <0.02 | <10 | 210 | 0.12 | 2.96 | 0.83 | 2.46 | 6.60 | 7.8 | 4 | 0.27 |
| 2018KNS047 | | 0.05 | 1.22 | 0.22 | 17.7 | <0.02 | <10 | 130 | 0.17 | 1.00 | 0.47 | 0.75 | 8.51 | 4.5 | 5 | 0.24 |
| 2018KNS048 | | 0.08 | 1.48 | 0.26 | 22.1 | <0.02 | <10 | 130 | 0.13 | 1.57 | 0.26 | 1.34 | 7.73 | 3.9 | 7 | 0.23 |
| 2018KNS049 | | 0.08 | 2.23 | 0.20 | 24.7 | <0.02 | <10 | 80 | 0.12 | 1.35 | 0.47 | 0.95 | 6.32 | 3.4 | 6 | 0.21 |
| 2018KNS050 | | 0.08 | 2.27 | 0.17 | 18.3 | <0.02 | <10 | 130 | 0.11 | 1.70 | 0.50 | 0.98 | 4.58 | 4.0 | 4 | 0.24 |
| 2018KNS051 | | 0.10 | 1.48 | 0.23 | 29.4 | <0.02 | <10 | 130 | 0.15 | 1.62 | 0.39 | 1.43 | 8.53 | 8.6 | 7 | 0.25 |
| 2018KNS052 | | 0.07 | 1.85 | 0.24 | 12.5 | <0.02 | <10 | 210 | 0.12 | 1.28 | 0.59 | 0.93 | 7.79 | 3.5 | 9 | 0.28 |
| 2018KNS054 | | 0.07 | 2.78 | 0.27 | 18.1 | <0.02 | <10 | 150 | 0.15 | 1.63 | 0.41 | 1.54 | 6.99 | 13.9 | 6 | 0.49 |
| 2018KNS055 | | 0.12 | 1.93 | 0.26 | 13.4 | <0.02 | <10 | 130 | 0.15 | 1.38 | 0.71 | 1.80 | 7.83 | 9.2 | 7 | 0.35 |
| 2018KNS056 | | 0.10 | 3.01 | 0.25 | 24.0 | <0.02 | <10 | 50 | 0.13 | 1.45 | 0.53 | 0.44 | 9.05 | 5.3 | 8 | 0.46 |
| 2018KTS001 | | 0.24 | 0.27 | 1.18 | 7.5 | <0.02 | <10 | 40 | 0.52 | 0.25 | 0.81 | 1.30 | 44.0 | 3.0 | 19 | 0.26 |
| 2018KTS002 | | 0.26 | 2.37 | 0.39 | 14.8 | <0.02 | <10 | 90 | 0.35 | 1.71 | 0.56 | 1.70 | 25.9 | 8.2 | 8 | 0.55 |
| 2018KTS003 | | 0.28 | 0.83 | 0.33 | 16.1 | <0.02 | <10 | 20 | 0.11 | 0.69 | 0.13 | 0.74 | 16.55 | 2.6 | 6 | 0.27 |
| 2018KTS004 | | 0.16 | 0.19 | 1.13 | 7.3 | <0.02 | <10 | 40 | 0.51 | 0.17 | 0.88 | 0.76 | 53.6 | 4.2 | 25 | 0.56 |
| 2018KTS005 | | 0.22 | 0.70 | 0.33 | 23.3 | <0.02 | <10 | 60 | 0.12 | 1.13 | 0.22 | 1.62 | 8.73 | 4.5 | 9 | 0.28 |
| 2018KTS006 | | 0.18 | 1.11 | 0.18 | 15.8 | <0.02 | <10 | 50 | 0.09 | 1.01 | 0.27 | 1.23 | 6.83 | 3.2 | 4 | 0.29 |
| 2018KTS007 | | 0.30 | 0.47 | 0.35 | 10.7 | <0.02 | <10 | 30 | 0.08 | 0.23 | 0.23 | 0.18 | 5.71 | 2.2 | 8 | 0.20 |
| 2018KTS008 | | 0.29 | 0.80 | 1.54 | 13.1 | <0.02 | <10 | 70 | 0.40 | 0.71 | 0.31 | 0.69 | 22.4 | 11.7 | 29 | 0.81 |
| 2018KTS009 | | 0.20 | 0.32 | 0.84 | 290 | <0.02 | <10 | 40 | 0.33 | 0.33 | 0.32 | 0.27 | 23.9 | 98.2 | 22 | 0.56 |
| 2018KTS010 | | 0.27 | 0.50 | 0.90 | 9.9 | <0.02 | <10 | 40 | 0.22 | 0.28 | 0.24 | 0.24 | 21.8 | 6.4 | 26 | 0.82 |
| 2018KTS011 | | 0.27 | 0.66 | 0.91 | 12.0 | <0.02 | <10 | 40 | 0.38 | 0.48 | 0.92 | 1.30 | 38.2 | 5.5 | 24 | 0.49 |
| 2018KTS012 | | 0.33 | 0.89 | 0.35 | 29.5 | <0.02 | 10 | 350 | 0.19 | 0.50 | 2.55 | 1.69 | 6.91 | 8.3 | 13 | 0.24 |
| 2018KTS014 | | 0.28 | 0.76 | 0.15 | 45.0 | <0.02 | <10 | 50 | 0.08 | 1.55 | 0.98 | 1.29 | 3.56 | 3.6 | 4 | 0.17 |
| 2018KTS015 | | 0.23 | 0.71 | 0.16 | 22.6 | <0.02 | <10 | 50 | 0.08 | 1.06 | 0.54 | 1.20 | 3.19 | 3.6 | 2 | 0.10 |
| 2018KTS016 | | 0.21 | 1.11 | 0.23 | 33.3 | <0.02 | <10 | 80 | 0.07 | 1.66 | 0.15 | 1.73 | 3.72 | 4.8 | 4 | 0.24 |
| 2018KTS017 | | 0.31 | 0.68 | 0.67 | 91.2 | <0.02 | <10 | 50 | 0.56 | 0.61 | 1.40 | 1.24 | 63.9 | 14.5 | 21 | 0.31 |
| 2018KTS018 | | 0.28 | 1.19 | 0.22 | 30.1 | <0.02 | <10 | 40 | 0.10 | 0.73 | 3.06 | 0.78 | 5.71 | 11.1 | 8 | 0.14 |
| 2018KTS019 | | 0.23 | 1.75 | 0.75 | 19.8 | <0.02 | <10 | 70 | 0.16 | 1.82 | 0.14 | 2.16 | 9.17 | 3.8 | 38 | 0.67 |
| 2018KTS020 | | 0.31 | 1.63 | 0.73 | 18.8 | <0.02 | <10 | 70 | 0.18 | 1.85 | 0.14 | 2.10 | 9.39 | 4.0 | 38 | 0.64 |
| 2018KTS021 | | 0.16 | 2.21 | 0.39 | 21.7 | <0.02 | <10 | 80 | 0.23 | 1.59 | 0.35 | 1.61 | 10.90 | 4.9 | 14 | 0.43 |
| 2018KTS022 | | 0.12 | 2.18 | 0.29 | 15.4 | <0.02 | <10 | 130 | 0.13 | 1.48 | 0.53 | 0.98 | 7.00 | 4.6 | 10 | 0.31 |
| 2018KTS023 | | 0.13 | 1.02 | 0.27 | 12.0 | <0.02 | <10 | 70 | 0.12 | 0.77 | 0.27 | 0.74 | 9.20 | 2.4 | 7 | 0.19 |
| 2018KTS024 | | 0.09 | 1.42 | 0.21 | 7.0 | <0.02 | <10 | 80 | 0.09 | 0.52 | 0.78 | 1.13 | 3.86 | 4.3 | 6 | 0.20 |
| 2018KTS025 | | 0.15 | 3.26 | 0.27 | 21.3 | <0.02 | <10 | 200 | 0.12 | 1.34 | 1.16 | 2.91 | 4.53 | 5.9 | 6 | 0.37 |
| 2018KTS026 | | 0.14 | 3.06 | 0.39 | 34.7 | <0.02 | <10 | 120 | 0.13 | 1.62 | 0.35 | 0.95 | 7.19 | 6.0 | 7 | 0.31 |
| 2018KTS027 | | 0.11 | 5.48 | 0.29 | 24.7 | <0.02 | <10 | 60 | 0.11 | 1.16 | 0.72 | 1.73 | 4.20 | 8.5 | 10 | 0.36 |
| 2018KTS028 | | 0.09 | 2.50 | 0.17 | 24.9 | <0.02 | <10 | 60 | 0.07 | 1.25 | 0.57 | 1.32 | 3.58 | 4.0 | 7 | 0.30 |



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Page: 3 - B
 Total # Pages: 7 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

Project: 99421

CERTIFICATE OF ANALYSIS SD18197526

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|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|
| | Analyte | Cu | Fe | Ga | Ge | Hf | Hg | In | K | La | Li | Mg | Mn | Mo | Na | Nb |
| Units | | ppm | % | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm |
| LOD | | 0.2 | 0.01 | 0.05 | 0.05 | 0.02 | 0.01 | 0.005 | 0.01 | 0.2 | 0.1 | 0.01 | 5 | 0.05 | 0.01 | 0.05 |
| 2018KNS043 | | 45.8 | 0.51 | 1.53 | 0.10 | <0.02 | 0.47 | 0.091 | 0.06 | 8.0 | 0.8 | 0.05 | 94 | 0.75 | 0.02 | 0.19 |
| 2018KNS044 | | 55.2 | 0.40 | 1.10 | 0.11 | <0.02 | 0.57 | 0.123 | 0.07 | 4.3 | 0.8 | 0.07 | 216 | 0.72 | 0.01 | 0.15 |
| 2018KNS045 | | 28.5 | 0.40 | 1.51 | 0.11 | <0.02 | 0.42 | 0.088 | 0.04 | 6.1 | 0.6 | 0.03 | 59 | 0.67 | 0.01 | 0.22 |
| 2018KNS046 | | 80.7 | 0.44 | 1.28 | 0.13 | <0.02 | 0.83 | 0.186 | 0.11 | 4.5 | 0.7 | 0.06 | 492 | 0.87 | 0.02 | 0.15 |
| 2018KNS047 | | 30.2 | 0.34 | 1.55 | 0.09 | <0.02 | 0.25 | 0.063 | 0.07 | 7.4 | 0.6 | 0.05 | 136 | 0.57 | 0.01 | 0.24 |
| 2018KNS048 | | 35.1 | 0.45 | 1.94 | 0.10 | <0.02 | 0.28 | 0.090 | 0.05 | 4.9 | 1.1 | 0.04 | 136 | 0.65 | 0.01 | 0.30 |
| 2018KNS049 | | 33.9 | 0.43 | 1.53 | 0.10 | <0.02 | 0.32 | 0.090 | 0.06 | 5.0 | 0.8 | 0.04 | 211 | 0.62 | 0.01 | 0.24 |
| 2018KNS050 | | 48.7 | 0.35 | 1.03 | 0.11 | <0.02 | 0.36 | 0.112 | 0.06 | 3.9 | 0.5 | 0.06 | 82 | 0.67 | 0.01 | 0.14 |
| 2018KNS051 | | 53.5 | 0.49 | 1.60 | 0.10 | <0.02 | 0.25 | 0.106 | 0.07 | 6.5 | 0.7 | 0.05 | 110 | 0.52 | 0.01 | 0.21 |
| 2018KNS052 | | 34.0 | 0.37 | 1.46 | 0.09 | <0.02 | 0.29 | 0.082 | 0.08 | 4.8 | 1.0 | 0.11 | 194 | 0.40 | 0.01 | 0.19 |
| 2018KNS054 | | 34.3 | 0.55 | 2.00 | <0.05 | <0.02 | 0.32 | 0.096 | 0.09 | 4.2 | 1.3 | 0.07 | 2860 | 0.89 | 0.01 | 0.21 |
| 2018KNS055 | | 29.7 | 0.45 | 1.87 | <0.05 | <0.02 | 0.34 | 0.078 | 0.05 | 3.9 | 1.4 | 0.08 | 1100 | 0.56 | 0.01 | 0.31 |
| 2018KNS056 | | 36.5 | 0.56 | 2.02 | <0.05 | 0.02 | 0.42 | 0.094 | 0.05 | 5.1 | 1.4 | 0.06 | 299 | 0.75 | 0.01 | 0.37 |
| 2018KTS001 | | 27.4 | 1.82 | 1.84 | 0.06 | 0.02 | 0.21 | 0.039 | 0.02 | 25.3 | 2.0 | 0.09 | 35 | 0.49 | 0.02 | 0.49 |
| 2018KTS002 | | 64.9 | 0.58 | 2.45 | 0.07 | <0.02 | 0.50 | 0.153 | 0.06 | 18.6 | 1.9 | 0.07 | 187 | 0.63 | 0.01 | 0.20 |
| 2018KTS003 | | 27.6 | 0.66 | 1.39 | 0.06 | <0.02 | 0.30 | 0.042 | 0.03 | 12.7 | 0.9 | 0.03 | 13 | 0.62 | 0.02 | 0.28 |
| 2018KTS004 | | 21.7 | 1.22 | 3.25 | 0.07 | 0.03 | 0.20 | 0.023 | 0.02 | 28.3 | 7.6 | 0.24 | 80 | 0.69 | 0.02 | 0.68 |
| 2018KTS005 | | 54.7 | 0.55 | 1.77 | <0.05 | 0.02 | 0.35 | 0.119 | 0.03 | 4.6 | 1.8 | 0.07 | 40 | 0.73 | 0.02 | 0.27 |
| 2018KTS006 | | 33.0 | 0.27 | 1.04 | <0.05 | <0.02 | 0.49 | 0.085 | 0.04 | 4.0 | 0.5 | 0.03 | 56 | 0.54 | 0.01 | 0.14 |
| 2018KTS007 | | 10.9 | 0.54 | 1.64 | <0.05 | <0.02 | 0.15 | 0.021 | 0.03 | 2.6 | 1.5 | 0.05 | 63 | 0.28 | 0.01 | 0.34 |
| 2018KTS008 | | 41.4 | 0.96 | 5.00 | 0.06 | 0.02 | 0.24 | 0.042 | 0.07 | 19.1 | 11.3 | 0.22 | 79 | 0.65 | 0.02 | 0.91 |
| 2018KTS009 | | 32.1 | 1.12 | 3.27 | 0.05 | 0.02 | 0.08 | 0.025 | 0.03 | 17.0 | 9.8 | 0.26 | 376 | 0.80 | 0.01 | 0.66 |
| 2018KTS010 | | 17.0 | 1.38 | 4.95 | <0.05 | 0.02 | 0.11 | 0.027 | 0.04 | 9.9 | 10.4 | 0.25 | 172 | 0.42 | 0.01 | 1.21 |
| 2018KTS011 | | 41.2 | 1.02 | 2.56 | 0.07 | 0.02 | 0.21 | 0.039 | 0.03 | 24.2 | 6.7 | 0.23 | 97 | 0.44 | 0.02 | 0.55 |
| 2018KTS012 | | 36.4 | 3.36 | 0.90 | 0.05 | 0.08 | 0.56 | 0.045 | 0.02 | 4.5 | 1.3 | 0.19 | 7600 | 3.81 | 0.02 | 0.21 |
| 2018KTS014 | | 50.0 | 0.30 | 0.94 | 0.06 | 0.02 | 0.54 | 0.091 | 0.03 | 1.6 | 0.5 | 0.08 | 47 | 1.09 | 0.01 | 0.15 |
| 2018KTS015 | | 30.2 | 0.21 | 0.82 | 0.05 | <0.02 | 0.52 | 0.064 | 0.03 | 1.6 | 0.3 | 0.03 | 21 | 0.92 | 0.01 | 0.11 |
| 2018KTS016 | | 42.3 | 0.31 | 1.16 | 0.05 | <0.02 | 0.61 | 0.104 | 0.06 | 1.8 | 0.6 | 0.06 | 25 | 0.75 | 0.02 | 0.20 |
| 2018KTS017 | | 133.5 | 2.53 | 2.33 | 0.17 | 0.03 | 0.39 | 0.038 | 0.02 | 66.3 | 1.4 | 0.13 | 386 | 1.35 | 0.02 | 0.40 |
| 2018KTS018 | | 19.0 | 0.74 | 0.87 | <0.05 | 0.04 | 0.42 | 0.054 | 0.02 | 2.6 | 0.5 | 0.23 | 507 | 0.69 | 0.02 | 0.16 |
| 2018KTS019 | | 64.1 | 0.90 | 3.40 | <0.05 | <0.02 | 0.36 | 0.174 | 0.05 | 4.4 | 0.8 | 0.06 | 95 | 0.88 | 0.02 | 0.20 |
| 2018KTS020 | | 64.9 | 0.89 | 3.25 | <0.05 | <0.02 | 0.30 | 0.174 | 0.05 | 4.4 | 0.8 | 0.06 | 95 | 0.80 | 0.02 | 0.19 |
| 2018KTS021 | | 51.6 | 0.66 | 1.76 | 0.05 | <0.02 | 0.58 | 0.167 | 0.06 | 4.7 | 1.2 | 0.08 | 32 | 0.95 | 0.01 | 0.37 |
| 2018KTS022 | | 41.8 | 0.55 | 1.93 | <0.05 | <0.02 | 0.41 | 0.118 | 0.07 | 3.6 | 1.7 | 0.06 | 274 | 0.69 | 0.01 | 0.36 |
| 2018KTS023 | | 26.2 | 0.44 | 2.15 | <0.05 | <0.02 | 0.22 | 0.064 | 0.04 | 5.1 | 1.1 | 0.04 | 48 | 0.51 | 0.01 | 0.29 |
| 2018KTS024 | | 26.1 | 0.39 | 1.04 | <0.05 | 0.02 | 0.23 | 0.043 | 0.09 | 2.9 | 1.4 | 0.08 | 112 | 0.46 | 0.01 | 0.30 |
| 2018KTS025 | | 74.9 | 0.58 | 1.49 | 0.06 | <0.02 | 0.52 | 0.215 | 0.08 | 3.5 | 1.1 | 0.07 | 880 | 0.76 | 0.02 | 0.24 |
| 2018KTS026 | | 95.3 | 0.95 | 2.65 | <0.05 | <0.02 | 0.47 | 0.216 | 0.05 | 4.9 | 1.5 | 0.05 | 153 | 1.31 | 0.01 | 0.33 |
| 2018KTS027 | | 114.0 | 0.72 | 1.97 | 0.07 | <0.02 | 0.66 | 0.193 | 0.07 | 2.9 | 2.0 | 0.09 | 189 | 0.93 | 0.01 | 0.42 |
| 2018KTS028 | | 240 | 0.66 | 1.03 | 0.07 | <0.02 | 0.53 | 0.296 | 0.06 | 2.0 | 0.7 | 0.05 | 73 | 1.19 | 0.02 | 0.20 |



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Page: 3 - C
 Total # Pages: 7 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

Project: 99421

CERTIFICATE OF ANALYSIS SD18197526

| Sample Description | Method Analyte Units LOD | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | |
|--------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| | | Ni | P | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti |
| | | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | | 0.2 | 10 | 0.2 | 0.1 | 0.001 | 0.01 | 0.05 | 0.1 | 0.2 | 0.2 | 0.2 | 0.01 | 0.01 | 0.2 | 0.005 |
| 2018KNS043 | | 32.6 | 710 | 93.6 | 4.2 | 0.004 | 0.12 | 1.19 | 0.4 | 2.6 | 2.0 | 24.5 | <0.01 | 0.06 | <0.2 | 0.011 |
| 2018KNS044 | | 37.7 | 870 | 124.5 | 3.4 | 0.002 | 0.13 | 1.61 | 0.6 | 3.4 | 2.5 | 19.8 | <0.01 | 0.08 | 0.3 | 0.007 |
| 2018KNS045 | | 35.9 | 530 | 71.8 | 2.8 | 0.001 | 0.07 | 1.40 | 0.5 | 2.0 | 2.3 | 14.1 | <0.01 | 0.02 | 0.4 | 0.012 |
| 2018KNS046 | | 55.8 | 1080 | 172.0 | 4.8 | 0.002 | 0.15 | 3.13 | 0.6 | 3.9 | 3.3 | 41.8 | <0.01 | 0.08 | 0.2 | 0.008 |
| 2018KNS047 | | 26.2 | 570 | 69.6 | 3.2 | 0.002 | 0.09 | 0.98 | 0.5 | 1.9 | 1.5 | 36.8 | <0.01 | 0.03 | 0.2 | 0.013 |
| 2018KNS048 | | 23.1 | 600 | 104.0 | 3.3 | 0.002 | 0.09 | 1.27 | 0.3 | 2.1 | 2.2 | 26.6 | <0.01 | 0.05 | <0.2 | 0.015 |
| 2018KNS049 | | 29.1 | 690 | 85.9 | 3.2 | 0.002 | 0.11 | 1.25 | 0.4 | 2.0 | 2.4 | 33.5 | <0.01 | 0.06 | 0.2 | 0.012 |
| 2018KNS050 | | 38.6 | 680 | 109.0 | 2.6 | 0.004 | 0.12 | 1.41 | 0.5 | 2.8 | 2.7 | 36.8 | <0.01 | 0.06 | 0.3 | 0.008 |
| 2018KNS051 | | 40.8 | 470 | 107.5 | 3.2 | 0.002 | 0.09 | 0.82 | 0.5 | 1.9 | 2.1 | 25.5 | <0.01 | 0.06 | 0.3 | 0.013 |
| 2018KNS052 | | 32.0 | 580 | 77.5 | 4.7 | 0.002 | 0.08 | 1.02 | 0.6 | 2.0 | 1.7 | 30.2 | <0.01 | 0.06 | 0.2 | 0.014 |
| 2018KNS054 | | 32.1 | 1090 | 118.0 | 6.4 | 0.001 | 0.11 | 1.17 | 0.2 | 1.5 | 2.7 | 25.4 | <0.01 | 0.08 | <0.2 | 0.009 |
| 2018KNS055 | | 19.1 | 580 | 104.5 | 3.7 | 0.001 | 0.07 | 1.01 | 0.4 | 2.3 | 1.8 | 31.6 | <0.01 | 0.07 | 0.2 | 0.016 |
| 2018KNS056 | | 31.8 | 610 | 83.8 | 3.7 | 0.001 | 0.10 | 1.63 | 0.6 | 2.2 | 2.6 | 28.8 | <0.01 | 0.06 | 0.3 | 0.018 |
| 2018KTS001 | | 12.3 | 590 | 18.1 | 1.8 | 0.006 | 0.38 | 0.28 | 1.8 | 1.0 | 0.5 | 26.1 | 0.01 | 0.04 | 0.3 | 0.017 |
| 2018KTS002 | | 23.3 | 880 | 163.5 | 4.5 | 0.001 | 0.08 | 1.20 | 0.3 | 2.2 | 3.0 | 40.2 | <0.01 | 0.05 | <0.2 | 0.009 |
| 2018KTS003 | | 13.3 | 480 | 29.5 | 2.1 | 0.001 | 0.15 | 0.75 | 0.6 | 1.2 | 1.4 | 13.8 | <0.01 | 0.05 | <0.2 | 0.011 |
| 2018KTS004 | | 17.6 | 370 | 16.7 | 3.0 | 0.005 | 0.45 | 0.60 | 1.9 | 0.8 | 0.4 | 37.2 | <0.01 | 0.04 | 0.3 | 0.027 |
| 2018KTS005 | | 28.6 | 440 | 80.8 | 2.4 | 0.002 | 0.12 | 1.39 | 0.7 | 1.6 | 1.7 | 24.0 | <0.01 | 0.09 | 0.4 | 0.017 |
| 2018KTS006 | | 16.6 | 550 | 73.2 | 1.8 | 0.004 | 0.09 | 1.25 | 0.3 | 1.4 | 1.7 | 21.0 | <0.01 | 0.06 | 0.2 | 0.008 |
| 2018KTS007 | | 8.8 | 500 | 13.4 | 1.9 | 0.003 | 0.06 | 0.34 | 0.2 | 0.6 | 0.4 | 19.5 | <0.01 | 0.03 | <0.2 | 0.018 |
| 2018KTS008 | | 31.5 | 930 | 25.5 | 5.7 | 0.001 | 0.21 | 0.51 | 1.2 | 1.2 | 1.0 | 20.5 | <0.01 | 0.04 | <0.2 | 0.036 |
| 2018KTS009 | | 46.9 | 450 | 15.3 | 4.7 | 0.001 | 0.03 | 0.62 | 1.4 | 0.5 | 0.5 | 17.4 | <0.01 | 0.03 | 0.3 | 0.034 |
| 2018KTS010 | | 17.9 | 350 | 14.3 | 7.8 | <0.001 | 0.03 | 0.31 | 1.4 | 0.4 | 0.7 | 16.2 | <0.01 | 0.04 | 1.2 | 0.064 |
| 2018KTS011 | | 21.0 | 710 | 39.1 | 2.3 | 0.007 | 0.29 | 0.42 | 1.1 | 2.4 | 1.0 | 23.5 | <0.01 | 0.06 | <0.2 | 0.023 |
| 2018KTS012 | | 20.3 | 1660 | 35.2 | 1.6 | 0.010 | 0.38 | 0.69 | 0.9 | 3.7 | 0.8 | 40.9 | <0.01 | 0.20 | 0.4 | 0.006 |
| 2018KTS014 | | 37.3 | 620 | 74.9 | 1.3 | 0.002 | 0.21 | 2.28 | 0.4 | 2.7 | 2.1 | 24.4 | <0.01 | 0.07 | 0.2 | 0.005 |
| 2018KTS015 | | 22.8 | 560 | 60.0 | 1.2 | 0.005 | 0.16 | 1.61 | 0.3 | 1.7 | 1.5 | 20.9 | <0.01 | 0.06 | <0.2 | <0.005 |
| 2018KTS016 | | 38.7 | 610 | 76.6 | 3.2 | 0.004 | 0.18 | 1.92 | 0.4 | 2.7 | 2.0 | 40.0 | <0.01 | 0.12 | 0.2 | 0.009 |
| 2018KTS017 | | 18.5 | 1290 | 39.1 | 1.5 | 0.019 | 0.45 | 0.67 | 1.6 | 2.6 | 0.8 | 46.0 | <0.01 | 0.31 | <0.2 | 0.011 |
| 2018KTS018 | | 15.4 | 910 | 51.8 | 0.9 | 0.011 | 0.31 | 0.98 | 0.5 | 2.5 | 1.1 | 54.4 | <0.01 | 0.14 | 0.2 | 0.005 |
| 2018KTS019 | | 37.0 | 950 | 120.5 | 4.3 | 0.001 | 0.10 | 1.03 | 0.2 | 1.9 | 3.3 | 7.1 | <0.01 | 0.05 | <0.2 | 0.008 |
| 2018KTS020 | | 38.0 | 940 | 123.0 | 4.3 | 0.001 | 0.10 | 1.05 | 0.2 | 2.2 | 3.3 | 6.8 | <0.01 | 0.07 | <0.2 | 0.009 |
| 2018KTS021 | | 28.0 | 890 | 124.5 | 3.3 | 0.002 | 0.13 | 1.33 | 0.5 | 2.6 | 2.2 | 25.6 | <0.01 | 0.11 | <0.2 | 0.015 |
| 2018KTS022 | | 31.0 | 870 | 118.0 | 2.7 | 0.001 | 0.11 | 1.14 | 0.3 | 1.7 | 19.5 | 21.7 | <0.01 | 0.05 | <0.2 | 0.016 |
| 2018KTS023 | | 16.4 | 470 | 49.7 | 1.8 | 0.001 | 0.06 | 0.69 | 0.4 | 1.1 | 1.4 | 20.2 | <0.01 | 0.04 | <0.2 | 0.016 |
| 2018KTS024 | | 22.8 | 970 | 22.9 | 2.4 | 0.002 | 0.16 | 0.46 | 0.4 | 2.1 | 1.2 | 47.9 | <0.01 | 0.03 | 0.2 | 0.013 |
| 2018KTS025 | | 28.2 | 1200 | 94.7 | 3.8 | 0.001 | 0.19 | 1.59 | 0.3 | 2.6 | 2.6 | 48.6 | <0.01 | 0.05 | <0.2 | 0.011 |
| 2018KTS026 | | 34.0 | 800 | 95.5 | 3.2 | 0.003 | 0.10 | 1.34 | 0.5 | 1.8 | 3.3 | 19.8 | <0.01 | 0.08 | <0.2 | 0.010 |
| 2018KTS027 | | 39.3 | 1040 | 70.0 | 3.2 | 0.003 | 0.16 | 1.33 | 0.5 | 3.3 | 2.6 | 32.8 | <0.01 | 0.08 | <0.2 | 0.022 |
| 2018KTS028 | | 42.1 | 630 | 75.4 | 3.1 | 0.002 | 0.16 | 1.53 | 0.4 | 2.8 | 2.6 | 24.9 | <0.01 | 0.09 | <0.2 | 0.009 |



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Page: 3 - D
 Total # Pages: 7 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

Project: 99421

CERTIFICATE OF ANALYSIS SD18197526

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|--------------------|--------------------------|---------|---------|---------|---------|---------|---------|------|
| | | Tl | U | V | W | Y | Zn | Zr |
| | | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | | 0.02 | 0.05 | 1 | 0.05 | 0.05 | 2 | 0.5 |
| 2018KNS043 | | 0.03 | 0.26 | 9 | 0.12 | 1.61 | 53 | <0.5 |
| 2018KNS044 | | 0.06 | 0.28 | 6 | 0.15 | 1.14 | 79 | <0.5 |
| 2018KNS045 | | 0.05 | 0.23 | 9 | 0.13 | 0.96 | 27 | <0.5 |
| 2018KNS046 | | 0.11 | 0.28 | 8 | 0.17 | 1.45 | 69 | <0.5 |
| 2018KNS047 | | 0.05 | 0.16 | 8 | 0.10 | 1.55 | 24 | <0.5 |
| 2018KNS048 | | 0.04 | 0.21 | 11 | 0.15 | 1.00 | 61 | <0.5 |
| 2018KNS049 | | 0.04 | 0.22 | 10 | 0.14 | 0.87 | 40 | <0.5 |
| 2018KNS050 | | 0.04 | 0.19 | 6 | 0.14 | 0.85 | 55 | <0.5 |
| 2018KNS051 | | 0.04 | 0.22 | 12 | 0.12 | 1.27 | 39 | <0.5 |
| 2018KNS052 | | 0.04 | 0.17 | 8 | 0.10 | 1.01 | 86 | <0.5 |
| 2018KNS054 | | 0.17 | 0.20 | 11 | 0.18 | 1.14 | 134 | <0.5 |
| 2018KNS055 | | 0.07 | 0.21 | 12 | 0.13 | 1.27 | 99 | <0.5 |
| 2018KNS056 | | 0.05 | 0.28 | 15 | 0.18 | 1.01 | 71 | 0.5 |
| 2018KTS001 | | 0.03 | 1.00 | 39 | 0.10 | 7.85 | 71 | 0.9 |
| 2018KTS002 | | 0.08 | 0.55 | 9 | 0.13 | 4.45 | 107 | <0.5 |
| 2018KTS003 | | 0.03 | 0.44 | 7 | 0.11 | 3.88 | 24 | <0.5 |
| 2018KTS004 | | 0.08 | 0.99 | 43 | 0.10 | 9.74 | 96 | 1.1 |
| 2018KTS005 | | 0.04 | 0.29 | 11 | 0.13 | 1.51 | 71 | 0.7 |
| 2018KTS006 | | 0.03 | 0.22 | 6 | 0.10 | 0.88 | 114 | <0.5 |
| 2018KTS007 | | 0.02 | 0.13 | 12 | 0.06 | 0.83 | 45 | <0.5 |
| 2018KTS008 | | 0.08 | 0.70 | 24 | 0.12 | 6.59 | 71 | 0.6 |
| 2018KTS009 | | 0.05 | 0.41 | 21 | 0.09 | 4.66 | 44 | 0.5 |
| 2018KTS010 | | 0.05 | 0.42 | 32 | 0.11 | 2.26 | 45 | 0.8 |
| 2018KTS011 | | 0.08 | 3.31 | 27 | 0.08 | 9.69 | 70 | 0.7 |
| 2018KTS012 | | 0.13 | 0.58 | 9 | 0.29 | 4.14 | 96 | 2.7 |
| 2018KTS014 | | 0.06 | 0.17 | 4 | 0.15 | 1.00 | 108 | 0.7 |
| 2018KTS015 | | 0.03 | 0.13 | 4 | 0.10 | 0.84 | 28 | <0.5 |
| 2018KTS016 | | 0.07 | 0.16 | 5 | 0.18 | 0.82 | 53 | <0.5 |
| 2018KTS017 | | 0.07 | 3.52 | 68 | 0.12 | 28.4 | 43 | 0.5 |
| 2018KTS018 | | 0.06 | 0.70 | 12 | 0.09 | 1.99 | 12 | 1.0 |
| 2018KTS019 | | 0.06 | 0.24 | 21 | 0.12 | 2.36 | 61 | <0.5 |
| 2018KTS020 | | 0.06 | 0.24 | 20 | 0.13 | 2.38 | 63 | <0.5 |
| 2018KTS021 | | 0.03 | 0.31 | 12 | 0.15 | 1.54 | 71 | <0.5 |
| 2018KTS022 | | 0.06 | 0.21 | 9 | 0.15 | 1.01 | 86 | <0.5 |
| 2018KTS023 | | 0.03 | 0.21 | 10 | 0.09 | 1.01 | 70 | <0.5 |
| 2018KTS024 | | 0.04 | 0.13 | 7 | 0.11 | 0.58 | 161 | 0.5 |
| 2018KTS025 | | 0.11 | 0.19 | 9 | 0.15 | 0.80 | 328 | <0.5 |
| 2018KTS026 | | 0.06 | 0.26 | 12 | 0.18 | 1.25 | 153 | <0.5 |
| 2018KTS027 | | 0.05 | 0.17 | 15 | 0.46 | 0.75 | 242 | <0.5 |
| 2018KTS028 | | 0.06 | 0.17 | 9 | 0.17 | 0.62 | 295 | <0.5 |



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Page: 4 - A
 Total # Pages: 7 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

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CERTIFICATE OF ANALYSIS SD18197526

| Sample Description | Method | WEI-21 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 |
|--------------------|---------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Analyte | Recvd Wt. | Ag | Al | As | Au | B | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs |
| Units | | kg | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| LOD | | 0.02 | 0.01 | 0.01 | 0.1 | 0.02 | 10 | 10 | 0.05 | 0.01 | 0.01 | 0.01 | 0.02 | 0.1 | 1 | 0.05 |
| 2018KTS029 | | 0.09 | 1.89 | 0.33 | 19.5 | <0.02 | <10 | 100 | 0.10 | 1.37 | 0.22 | 1.68 | 8.58 | 3.6 | 9 | 0.31 |
| 2018KTS030 | | 0.18 | 2.62 | 0.30 | 16.0 | <0.02 | <10 | 80 | 0.25 | 1.66 | 0.17 | 1.08 | 9.10 | 5.3 | 6 | 0.29 |
| 2018KTS031 | | 0.16 | 1.14 | 0.27 | 17.3 | <0.02 | <10 | 80 | 0.11 | 1.52 | 0.17 | 0.65 | 8.47 | 2.9 | 8 | 0.37 |
| 2018KTS032 | | 0.17 | 1.89 | 0.37 | 31.9 | <0.02 | <10 | 60 | 0.18 | 1.21 | 0.32 | 0.81 | 9.27 | 5.7 | 8 | 0.21 |
| 2018KTS034 | | 0.17 | 2.94 | 0.35 | 19.0 | <0.02 | <10 | 210 | 0.25 | 1.73 | 0.51 | 1.80 | 12.35 | 12.2 | 9 | 0.39 |
| 2018KTS035 | | 0.35 | 0.27 | 1.15 | 6.2 | <0.02 | <10 | 40 | 0.23 | 0.21 | 0.17 | 0.20 | 13.90 | 5.0 | 25 | 0.67 |
| 2018KTS036 | | 0.11 | 1.12 | 0.36 | 16.6 | <0.02 | 10 | 90 | 0.21 | 1.03 | 0.36 | 1.75 | 9.34 | 5.5 | 10 | 0.39 |
| 2018KTS037 | | 0.18 | 2.14 | 0.25 | 47.8 | <0.02 | 10 | 70 | 0.10 | 2.03 | 0.56 | 0.68 | 4.05 | 4.6 | 7 | 0.34 |
| 2018KTS038 | | 0.17 | 0.88 | 2.91 | 20.6 | <0.02 | <10 | 200 | 1.79 | 0.63 | 0.68 | 1.17 | 81.6 | 62.3 | 47 | 0.91 |
| 2018KTS039 | | 0.18 | 0.16 | 1.02 | 6.8 | <0.02 | 10 | 70 | 0.31 | 0.35 | 0.49 | 0.69 | 17.45 | 12.7 | 19 | 0.44 |
| 2018KTS040 | | 0.16 | 0.59 | 0.69 | 8.6 | <0.02 | <10 | 90 | 0.22 | 0.40 | 0.30 | 0.54 | 10.60 | 4.4 | 21 | 0.39 |
| 2018KTS041 | | 0.17 | 0.67 | 0.68 | 9.9 | <0.02 | <10 | 80 | 0.19 | 0.44 | 0.28 | 0.55 | 10.40 | 4.4 | 20 | 0.38 |
| 2018KTS042 | | 0.21 | 0.24 | 0.62 | 5.3 | <0.02 | <10 | 70 | 0.15 | 0.19 | 0.33 | 0.30 | 13.75 | 4.1 | 22 | 0.36 |
| 2018KTS043 | | 0.33 | 0.33 | 0.71 | 9.8 | <0.02 | <10 | 90 | 0.18 | 0.37 | 0.32 | 0.32 | 14.70 | 5.5 | 22 | 0.50 |
| 2018KTS044 | | 0.29 | 0.22 | 0.27 | 6.0 | <0.02 | <10 | 20 | 0.06 | 0.22 | 0.12 | 0.08 | 11.00 | 2.3 | 14 | 0.20 |
| 2018KTS045 | | 0.26 | 0.39 | 1.27 | 14.6 | <0.02 | <10 | 60 | 0.32 | 0.32 | 0.23 | 0.26 | 14.40 | 8.2 | 30 | 0.81 |
| 2018KTS046 | | 0.27 | 0.16 | 1.57 | 4.0 | <0.02 | <10 | 70 | 0.43 | 0.17 | 0.33 | 0.15 | 48.0 | 6.2 | 49 | 1.00 |
| 2018KTS047 | | 0.41 | 0.22 | 1.04 | 6.1 | <0.02 | <10 | 50 | 0.28 | 0.18 | 0.21 | 0.30 | 24.5 | 5.5 | 35 | 0.56 |
| 2018KTS048 | | 0.16 | 0.36 | 0.39 | 15.1 | <0.02 | <10 | 30 | 0.10 | 0.98 | 0.08 | 0.97 | 9.28 | 2.0 | 15 | 0.53 |
| 2018KTS049 | | 0.18 | 0.53 | 0.28 | 7.8 | <0.02 | <10 | 100 | 0.08 | 0.51 | 0.35 | 0.89 | 7.07 | 2.8 | 8 | 0.29 |
| 2018KTS050 | | 0.32 | 0.39 | 1.93 | 4.9 | <0.02 | 10 | 90 | 0.38 | 0.23 | 0.74 | 0.79 | 16.50 | 7.9 | 47 | 0.80 |
| 2018KTS051 | | 0.23 | 0.10 | 0.85 | 3.2 | <0.02 | <10 | 30 | 0.21 | 0.12 | 0.12 | 0.09 | 11.35 | 3.8 | 19 | 0.37 |
| 2018KTS052 | | 0.19 | 0.40 | 0.94 | 11.7 | <0.02 | <10 | 70 | 0.20 | 0.33 | 0.33 | 0.30 | 11.85 | 6.0 | 22 | 0.72 |
| 2018KTS054 | | 0.28 | 0.42 | 0.98 | 11.0 | <0.02 | <10 | 60 | 0.23 | 0.35 | 0.20 | 0.25 | 15.10 | 6.1 | 27 | 0.71 |
| 2018KTS055 | | 0.25 | 0.82 | 0.87 | 12.1 | <0.02 | <10 | 90 | 0.21 | 0.50 | 0.42 | 0.58 | 11.05 | 9.7 | 24 | 0.60 |
| 2018KTS056 | | 0.20 | 0.61 | 1.04 | 10.0 | <0.02 | <10 | 70 | 0.24 | 0.40 | 0.31 | 0.37 | 12.65 | 7.7 | 28 | 0.57 |
| 2018KTS057 | | 0.33 | 0.94 | 0.66 | 18.7 | <0.02 | <10 | 140 | 0.22 | 0.82 | 0.33 | 1.03 | 13.40 | 12.9 | 25 | 0.68 |
| 2018KTS058 | | 0.33 | 1.01 | 0.45 | 11.2 | <0.02 | <10 | 90 | 0.16 | 0.78 | 0.24 | 0.60 | 11.15 | 4.4 | 11 | 0.33 |
| 2018KTS059 | | 0.10 | 1.41 | 0.30 | 17.0 | <0.02 | 10 | 140 | 0.19 | 1.32 | 0.56 | 1.09 | 6.48 | 5.2 | 6 | 0.26 |
| 2018KTS060 | | 0.08 | 1.28 | 0.30 | 16.2 | <0.02 | <10 | 130 | 0.17 | 1.18 | 0.55 | 1.00 | 6.37 | 4.7 | 7 | 0.23 |
| 2018KTS061 | | 0.23 | 0.41 | 0.41 | 7.6 | <0.02 | <10 | 40 | 0.09 | 0.32 | 0.21 | 0.31 | 8.12 | 2.6 | 13 | 0.24 |
| 2018KTS062 | | 0.27 | 0.56 | 0.28 | 7.0 | <0.02 | <10 | 20 | 0.05 | 0.39 | 0.11 | 0.17 | 7.68 | 2.0 | 7 | 0.17 |
| 2018KTS063 | | 0.19 | 2.15 | 0.22 | 11.1 | <0.02 | <10 | 100 | 0.13 | 1.15 | 0.32 | 1.13 | 6.50 | 5.6 | 5 | 0.34 |
| 2018KTS064 | | 0.23 | 1.37 | 0.25 | 26.4 | <0.02 | <10 | 240 | 0.08 | 1.49 | 0.40 | 0.84 | 7.74 | 4.1 | 7 | 0.30 |
| 2018KTS065 | | 0.14 | 1.63 | 0.18 | 10.4 | <0.02 | 10 | 140 | 0.08 | 1.04 | 1.10 | 2.02 | 4.35 | 7.0 | 4 | 0.20 |
| 2018KTS066 | | 0.05 | 0.76 | 0.67 | 8.8 | <0.02 | <10 | 50 | 0.13 | 0.32 | 0.37 | 0.48 | 10.00 | 3.8 | 22 | 0.45 |
| 2018KTS067 | | 0.29 | 0.26 | 0.70 | 6.3 | <0.02 | <10 | 30 | 0.10 | 0.25 | 0.37 | 0.41 | 13.15 | 3.9 | 21 | 0.60 |
| 2018KTS068 | | 0.20 | 0.41 | 0.64 | 11.3 | <0.02 | <10 | 80 | 0.17 | 0.38 | 0.50 | 0.22 | 10.85 | 4.5 | 21 | 0.59 |
| 2018KTS069 | | 0.18 | 0.57 | 0.80 | 11.3 | <0.02 | <10 | 60 | 0.32 | 0.49 | 0.72 | 1.02 | 14.40 | 13.1 | 14 | 0.56 |
| 2018KTS070 | | 0.26 | 0.06 | 0.69 | 1.3 | <0.02 | <10 | 60 | 0.18 | 0.10 | 0.39 | 0.13 | 12.30 | 4.6 | 21 | 0.31 |



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Page: 4 - B
 Total # Pages: 7 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

Project: 99421

CERTIFICATE OF ANALYSIS SD18197526

| Sample Description | Method | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|
| | Analyte | Cu | Fe | Ga | Ge | Hf | Hg | In | K | La | Li | Mg | Mn | Mo | Na | Nb |
| Units | | ppm | % | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm |
| LOD | | 0.2 | 0.01 | 0.05 | 0.05 | 0.02 | 0.01 | 0.005 | 0.01 | 0.2 | 0.1 | 0.01 | 5 | 0.05 | 0.01 | 0.05 |
| 2018KTS029 | | 96.3 | 0.72 | 1.96 | <0.05 | <0.02 | 0.41 | 0.222 | 0.06 | 4.4 | 1.3 | 0.04 | 38 | 0.82 | 0.01 | 0.33 |
| 2018KTS030 | | 94.7 | 0.58 | 2.15 | <0.05 | <0.02 | 0.38 | 0.227 | 0.06 | 4.9 | 0.8 | 0.03 | 61 | 0.84 | 0.01 | 0.25 |
| 2018KTS031 | | 63.3 | 0.55 | 2.15 | <0.05 | <0.02 | 0.25 | 0.169 | 0.04 | 4.3 | 1.2 | 0.04 | 63 | 0.69 | 0.01 | 0.32 |
| 2018KTS032 | | 45.1 | 0.60 | 1.61 | 0.06 | <0.02 | 0.50 | 0.098 | 0.05 | 4.6 | 1.3 | 0.07 | 63 | 0.74 | 0.01 | 0.30 |
| 2018KTS034 | | 58.9 | 0.62 | 1.76 | 0.05 | <0.02 | 0.47 | 0.125 | 0.10 | 7.5 | 1.2 | 0.07 | 1020 | 0.78 | 0.01 | 0.22 |
| 2018KTS035 | | 7.4 | 1.39 | 5.19 | <0.05 | <0.02 | 0.06 | 0.020 | 0.05 | 6.9 | 10.4 | 0.19 | 220 | 0.28 | 0.01 | 1.24 |
| 2018KTS036 | | 45.3 | 0.63 | 2.35 | <0.05 | <0.02 | 0.25 | 0.073 | 0.06 | 5.5 | 1.8 | 0.09 | 60 | 0.57 | <0.01 | 0.33 |
| 2018KTS037 | | 45.3 | 0.54 | 1.24 | 0.07 | <0.02 | 1.09 | 0.164 | 0.09 | 2.3 | 1.0 | 0.07 | 261 | 1.04 | <0.01 | 0.20 |
| 2018KTS038 | | 94.9 | 2.84 | 7.30 | 0.10 | 0.02 | 0.20 | 0.055 | 0.07 | 43.2 | 24.3 | 0.33 | 5210 | 1.12 | <0.01 | 1.06 |
| 2018KTS039 | | 45.4 | 1.60 | 2.77 | <0.05 | <0.02 | 0.12 | 0.031 | 0.07 | 5.7 | 13.3 | 0.69 | 882 | 0.70 | <0.01 | 0.54 |
| 2018KTS040 | | 14.0 | 1.15 | 3.54 | <0.05 | <0.02 | 0.11 | 0.027 | 0.06 | 4.9 | 5.5 | 0.14 | 385 | 0.29 | <0.01 | 0.75 |
| 2018KTS041 | | 13.4 | 1.13 | 3.52 | <0.05 | <0.02 | 0.12 | 0.029 | 0.06 | 5.0 | 5.3 | 0.13 | 347 | 0.32 | <0.01 | 0.72 |
| 2018KTS042 | | 7.5 | 1.31 | 3.12 | <0.05 | 0.02 | 0.06 | 0.015 | 0.04 | 6.7 | 6.6 | 0.16 | 522 | 0.23 | <0.01 | 0.91 |
| 2018KTS043 | | 13.1 | 1.36 | 4.25 | <0.05 | <0.02 | 0.08 | 0.032 | 0.05 | 7.5 | 8.2 | 0.18 | 366 | 0.46 | <0.01 | 0.87 |
| 2018KTS044 | | 6.3 | 0.72 | 2.12 | <0.05 | 0.02 | 0.05 | 0.014 | 0.02 | 5.2 | 2.9 | 0.11 | 51 | 0.18 | <0.01 | 0.60 |
| 2018KTS045 | | 14.4 | 1.95 | 5.54 | <0.05 | <0.02 | 0.10 | 0.031 | 0.05 | 6.9 | 13.5 | 0.22 | 301 | 0.51 | <0.01 | 1.25 |
| 2018KTS046 | | 33.3 | 1.15 | 5.32 | 0.06 | 0.03 | 0.09 | 0.021 | 0.06 | 27.9 | 14.6 | 0.36 | 115 | 0.53 | <0.01 | 1.00 |
| 2018KTS047 | | 19.3 | 0.99 | 3.54 | <0.05 | <0.02 | 0.13 | 0.018 | 0.03 | 14.0 | 11.5 | 0.32 | 184 | 0.25 | <0.01 | 0.66 |
| 2018KTS048 | | 56.9 | 0.71 | 2.04 | 0.06 | <0.02 | 0.17 | 0.066 | 0.03 | 5.8 | 2.4 | 0.07 | 58 | 1.98 | <0.01 | 0.34 |
| 2018KTS049 | | 19.9 | 0.36 | 1.74 | <0.05 | <0.02 | 0.16 | 0.039 | 0.05 | 3.7 | 1.4 | 0.08 | 61 | 0.32 | <0.01 | 0.29 |
| 2018KTS050 | | 24.9 | 1.24 | 6.84 | <0.05 | 0.03 | 0.07 | 0.025 | 0.16 | 9.4 | 15.9 | 0.37 | 166 | 0.39 | <0.01 | 1.39 |
| 2018KTS051 | | 4.4 | 1.08 | 3.71 | <0.05 | <0.02 | 0.04 | 0.012 | 0.03 | 5.4 | 7.8 | 0.14 | 122 | 0.19 | <0.01 | 0.88 |
| 2018KTS052 | | 11.2 | 1.47 | 4.68 | <0.05 | <0.02 | 0.11 | 0.024 | 0.05 | 6.5 | 9.8 | 0.16 | 338 | 0.50 | <0.01 | 1.06 |
| 2018KTS054 | | 12.5 | 1.70 | 5.27 | <0.05 | <0.02 | 0.10 | 0.027 | 0.04 | 8.2 | 8.8 | 0.15 | 193 | 0.52 | <0.01 | 1.22 |
| 2018KTS055 | | 17.1 | 1.50 | 4.98 | <0.05 | <0.02 | 0.12 | 0.032 | 0.08 | 6.2 | 8.1 | 0.18 | 562 | 0.53 | <0.01 | 0.87 |
| 2018KTS056 | | 12.8 | 1.71 | 5.49 | <0.05 | 0.02 | 0.13 | 0.031 | 0.07 | 7.2 | 10.6 | 0.21 | 392 | 0.45 | <0.01 | 1.14 |
| 2018KTS057 | | 31.6 | 1.46 | 4.32 | <0.05 | <0.02 | 0.16 | 0.063 | 0.05 | 8.0 | 4.8 | 0.17 | 2060 | 0.74 | <0.01 | 0.60 |
| 2018KTS058 | | 23.9 | 0.62 | 2.95 | <0.05 | <0.02 | 0.19 | 0.056 | 0.08 | 7.1 | 2.2 | 0.08 | 277 | 0.45 | <0.01 | 0.33 |
| 2018KTS059 | | 40.9 | 0.53 | 1.72 | <0.05 | <0.02 | 0.34 | 0.104 | 0.09 | 4.4 | 1.0 | 0.09 | 112 | 0.71 | <0.01 | 0.25 |
| 2018KTS060 | | 37.5 | 0.50 | 1.76 | <0.05 | <0.02 | 0.33 | 0.093 | 0.08 | 4.3 | 0.9 | 0.09 | 90 | 0.67 | <0.01 | 0.25 |
| 2018KTS061 | | 9.0 | 0.84 | 3.17 | <0.05 | <0.02 | 0.08 | 0.024 | 0.04 | 4.7 | 2.8 | 0.08 | 127 | 0.29 | <0.01 | 0.69 |
| 2018KTS062 | | 9.3 | 0.47 | 2.21 | <0.05 | <0.02 | 0.08 | 0.025 | 0.03 | 4.3 | 1.6 | 0.04 | 153 | 0.27 | <0.01 | 0.40 |
| 2018KTS063 | | 42.3 | 0.45 | 1.32 | <0.05 | <0.02 | 0.29 | 0.092 | 0.07 | 4.7 | 0.7 | 0.04 | 587 | 0.63 | <0.01 | 0.19 |
| 2018KTS064 | | 68.5 | 0.51 | 1.32 | 0.05 | <0.02 | 0.35 | 0.170 | 0.07 | 5.6 | 1.1 | 0.08 | 78 | 0.76 | <0.01 | 0.32 |
| 2018KTS065 | | 68.1 | 0.41 | 0.93 | <0.05 | <0.02 | 0.28 | 0.117 | 0.10 | 2.5 | 0.8 | 0.11 | 305 | 0.60 | <0.01 | 0.16 |
| 2018KTS066 | | 29.8 | 1.17 | 3.23 | <0.05 | <0.02 | 0.18 | 0.044 | 0.07 | 5.2 | 6.0 | 0.18 | 148 | 0.36 | <0.01 | 0.89 |
| 2018KTS067 | | 16.1 | 0.83 | 4.32 | <0.05 | 0.03 | 0.09 | 0.036 | 0.03 | 6.9 | 10.9 | 0.23 | 73 | 0.20 | <0.01 | 0.80 |
| 2018KTS068 | | 15.7 | 1.44 | 4.27 | <0.05 | <0.02 | 0.14 | 0.032 | 0.05 | 6.3 | 6.0 | 0.16 | 215 | 0.52 | <0.01 | 0.94 |
| 2018KTS069 | | 46.0 | 1.36 | 3.67 | <0.05 | <0.02 | 0.13 | 0.036 | 0.06 | 7.1 | 13.6 | 0.42 | 495 | 0.42 | <0.01 | 0.49 |
| 2018KTS070 | | 7.2 | 0.95 | 2.21 | <0.05 | 0.02 | 0.04 | 0.010 | 0.03 | 5.2 | 5.6 | 0.22 | 250 | 0.12 | <0.01 | 0.76 |



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Page: 4 - C
 Total # Pages: 7 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

Project: 99421

CERTIFICATE OF ANALYSIS SD18197526

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|--------------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| | Analyte | Ni | P | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti |
| | Units LOD | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | | 0.2 | 10 | 0.2 | 0.1 | 0.001 | 0.01 | 0.05 | 0.1 | 0.2 | 0.2 | 0.2 | 0.01 | 0.01 | 0.2 | 0.005 |
| 2018KTS029 | | 30.1 | 490 | 86.5 | 3.3 | 0.003 | 0.07 | 1.03 | 0.6 | 2.3 | 2.1 | 15.9 | <0.01 | 0.09 | 0.2 | 0.018 |
| 2018KTS030 | | 33.2 | 680 | 180.5 | 2.5 | 0.004 | 0.08 | 1.00 | 0.3 | 2.5 | 3.1 | 16.4 | <0.01 | 0.08 | <0.2 | 0.012 |
| 2018KTS031 | | 27.0 | 490 | 107.0 | 2.5 | 0.003 | 0.06 | 0.94 | 0.4 | 1.7 | 2.5 | 14.7 | <0.01 | 0.07 | <0.2 | 0.018 |
| 2018KTS032 | | 27.6 | 790 | 74.9 | 2.5 | 0.002 | 0.15 | 1.35 | 0.6 | 2.3 | 2.0 | 24.4 | <0.01 | 0.07 | 0.2 | 0.014 |
| 2018KTS034 | | 33.7 | 1150 | 133.5 | 4.2 | 0.001 | 0.13 | 1.49 | 0.3 | 2.2 | 2.5 | 41.6 | <0.01 | 0.10 | <0.2 | 0.010 |
| 2018KTS035 | | 16.2 | 440 | 10.7 | 8.0 | <0.001 | 0.02 | 0.18 | 1.3 | 0.4 | 0.6 | 15.6 | <0.01 | 0.03 | 0.8 | 0.063 |
| 2018KTS036 | | 31.4 | 670 | 61.7 | 3.5 | 0.003 | 0.08 | 0.95 | 0.4 | 1.5 | 1.8 | 33.5 | <0.01 | 0.05 | <0.2 | 0.018 |
| 2018KTS037 | | 33.6 | 1100 | 87.3 | 3.9 | 0.003 | 0.16 | 2.94 | 0.5 | 3.3 | 3.8 | 18.1 | <0.01 | 0.10 | <0.2 | 0.009 |
| 2018KTS038 | | 57.4 | 710 | 35.0 | 7.1 | <0.001 | 0.07 | 0.55 | 3.6 | 1.7 | 1.0 | 33.0 | <0.01 | 0.07 | 0.7 | 0.047 |
| 2018KTS039 | | 24.9 | 780 | 24.8 | 6.3 | <0.001 | 0.10 | 0.25 | 1.3 | 0.9 | 0.5 | 24.2 | <0.01 | 0.04 | 0.3 | 0.029 |
| 2018KTS040 | | 15.9 | 750 | 21.2 | 6.8 | 0.001 | 0.05 | 0.31 | 0.6 | 0.6 | 0.9 | 25.4 | <0.01 | 0.03 | 0.2 | 0.042 |
| 2018KTS041 | | 15.8 | 740 | 23.2 | 6.1 | 0.001 | 0.06 | 0.35 | 0.6 | 0.7 | 0.9 | 24.1 | <0.01 | 0.02 | 0.2 | 0.041 |
| 2018KTS042 | | 11.7 | 580 | 10.1 | 4.6 | <0.001 | 0.03 | 0.16 | 0.8 | 0.2 | 0.5 | 21.2 | <0.01 | 0.02 | 1.2 | 0.056 |
| 2018KTS043 | | 15.2 | 480 | 21.0 | 9.0 | <0.001 | 0.02 | 0.30 | 1.0 | 0.4 | 0.8 | 20.8 | <0.01 | 0.03 | 1.0 | 0.061 |
| 2018KTS044 | | 7.6 | 200 | 11.9 | 2.4 | <0.001 | 0.01 | 0.20 | 0.7 | 0.3 | 0.5 | 8.6 | <0.01 | 0.01 | 1.2 | 0.042 |
| 2018KTS045 | | 20.6 | 660 | 17.7 | 6.6 | <0.001 | 0.03 | 0.35 | 1.3 | 0.7 | 0.7 | 15.6 | <0.01 | 0.05 | 0.7 | 0.061 |
| 2018KTS046 | | 23.4 | 400 | 10.0 | 8.1 | <0.001 | 0.05 | 0.14 | 3.0 | 0.8 | 0.5 | 13.4 | <0.01 | 0.01 | 0.5 | 0.052 |
| 2018KTS047 | | 18.5 | 620 | 23.3 | 4.4 | <0.001 | 0.05 | 0.16 | 1.4 | 0.7 | 1.4 | 12.8 | <0.01 | 0.01 | 0.2 | 0.040 |
| 2018KTS048 | | 17.6 | 760 | 64.7 | 3.1 | 0.001 | 0.11 | 0.66 | 0.4 | 1.7 | 1.7 | 6.1 | <0.01 | 0.02 | <0.2 | 0.014 |
| 2018KTS049 | | 16.9 | 400 | 30.9 | 3.6 | 0.001 | 0.07 | 0.50 | 0.4 | 0.7 | 1.1 | 31.7 | <0.01 | 0.02 | 0.2 | 0.020 |
| 2018KTS050 | | 29.3 | 520 | 15.4 | 18.9 | <0.001 | 0.07 | 0.18 | 2.1 | 0.6 | 0.7 | 28.6 | <0.01 | 0.02 | 0.9 | 0.054 |
| 2018KTS051 | | 10.6 | 510 | 6.0 | 4.6 | <0.001 | 0.02 | 0.10 | 0.8 | 0.3 | 0.4 | 9.5 | 0.01 | <0.01 | 0.5 | 0.047 |
| 2018KTS052 | | 14.7 | 510 | 16.5 | 7.5 | <0.001 | 0.03 | 0.31 | 1.0 | 0.5 | 0.7 | 19.9 | <0.01 | 0.03 | 1.0 | 0.057 |
| 2018KTS054 | | 16.1 | 550 | 17.1 | 5.9 | <0.001 | 0.03 | 0.32 | 1.1 | 0.6 | 0.8 | 14.2 | <0.01 | 0.02 | 1.0 | 0.060 |
| 2018KTS055 | | 18.7 | 820 | 23.9 | 11.7 | 0.001 | 0.05 | 0.40 | 0.9 | 0.9 | 1.0 | 24.7 | <0.01 | 0.04 | 0.3 | 0.051 |
| 2018KTS056 | | 17.4 | 740 | 20.8 | 8.8 | <0.001 | 0.04 | 0.35 | 1.2 | 0.5 | 0.9 | 19.9 | <0.01 | 0.04 | 0.7 | 0.063 |
| 2018KTS057 | | 22.4 | 590 | 54.9 | 7.0 | 0.001 | 0.04 | 0.68 | 1.0 | 1.5 | 1.4 | 19.8 | <0.01 | 0.07 | 0.2 | 0.047 |
| 2018KTS058 | | 18.3 | 590 | 47.0 | 5.1 | 0.001 | 0.06 | 0.64 | 0.4 | 0.7 | 1.5 | 17.4 | <0.01 | 0.02 | <0.2 | 0.021 |
| 2018KTS059 | | 33.5 | 890 | 92.0 | 3.6 | 0.002 | 0.13 | 1.40 | 0.5 | 2.4 | 2.3 | 31.7 | <0.01 | 0.04 | 0.2 | 0.014 |
| 2018KTS060 | | 31.5 | 810 | 83.0 | 3.3 | 0.002 | 0.12 | 1.29 | 0.5 | 2.2 | 2.0 | 31.4 | <0.01 | 0.04 | <0.2 | 0.015 |
| 2018KTS061 | | 8.3 | 380 | 17.2 | 3.9 | <0.001 | 0.03 | 0.35 | 0.5 | 0.4 | 0.8 | 14.3 | <0.01 | 0.02 | 0.5 | 0.041 |
| 2018KTS062 | | 7.2 | 270 | 18.8 | 2.3 | <0.001 | 0.02 | 0.37 | 0.3 | 0.4 | 0.8 | 7.8 | <0.01 | 0.01 | 0.4 | 0.021 |
| 2018KTS063 | | 22.1 | 810 | 71.4 | 3.6 | 0.002 | 0.07 | 0.95 | 0.3 | 1.5 | 1.9 | 20.8 | <0.01 | 0.03 | <0.2 | 0.011 |
| 2018KTS064 | | 33.5 | 600 | 99.9 | 3.8 | 0.002 | 0.16 | 1.21 | 0.5 | 2.8 | 2.5 | 56.8 | <0.01 | 0.07 | 0.4 | 0.015 |
| 2018KTS065 | | 24.4 | 1150 | 61.8 | 2.9 | 0.001 | 0.17 | 0.85 | 0.4 | 1.8 | 1.7 | 64.0 | <0.01 | 0.04 | 0.2 | 0.008 |
| 2018KTS066 | | 15.8 | 920 | 16.3 | 5.6 | 0.001 | 0.11 | 0.29 | 0.7 | 0.8 | 1.0 | 17.7 | <0.01 | 0.03 | 0.3 | 0.039 |
| 2018KTS067 | | 14.5 | 210 | 24.1 | 5.7 | <0.001 | 0.06 | 0.29 | 1.3 | 0.5 | 0.7 | 13.1 | <0.01 | 0.01 | 1.4 | 0.056 |
| 2018KTS068 | | 14.5 | 720 | 22.0 | 9.1 | 0.001 | 0.05 | 0.33 | 0.9 | 0.6 | 0.8 | 28.6 | <0.01 | 0.02 | 0.3 | 0.051 |
| 2018KTS069 | | 19.8 | 720 | 32.1 | 6.3 | <0.001 | 0.08 | 0.40 | 1.2 | 0.8 | 0.8 | 29.8 | <0.01 | 0.04 | 0.2 | 0.030 |
| 2018KTS070 | | 13.4 | 530 | 7.5 | 4.1 | <0.001 | 0.04 | 0.09 | 0.8 | 0.2 | 0.3 | 27.0 | <0.01 | 0.01 | 0.8 | 0.045 |



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Page: 4 - D
 Total # Pages: 7 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

Project: 99421

CERTIFICATE OF ANALYSIS SD18197526

| Sample Description | Method Analyte Units LOD | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | |
|--------------------|-----------------------------------|---------|---------|---------|---------|---------|---------|------|
| | | Tl | U | V | W | Y | Zn | Zr |
| | | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | | 0.02 | 0.05 | 1 | 0.05 | 0.05 | 2 | 0.5 |
| 2018KTS029 | | 0.07 | 0.23 | 12 | 0.18 | 1.25 | 154 | <0.5 |
| 2018KTS030 | | 0.05 | 0.36 | 10 | 0.15 | 1.59 | 173 | <0.5 |
| 2018KTS031 | | 0.05 | 0.29 | 12 | 0.14 | 1.02 | 73 | <0.5 |
| 2018KTS032 | | 0.04 | 0.21 | 10 | 0.14 | 1.42 | 105 | 0.5 |
| 2018KTS034 | | 0.11 | 0.42 | 11 | 0.15 | 1.84 | 134 | <0.5 |
| 2018KTS035 | | 0.05 | 0.29 | 30 | 0.08 | 1.74 | 32 | 0.6 |
| 2018KTS036 | | 0.04 | 0.25 | 16 | 0.10 | 1.41 | 86 | <0.5 |
| 2018KTS037 | | 0.06 | 0.20 | 8 | 0.17 | 0.67 | 78 | <0.5 |
| 2018KTS038 | | 0.17 | 1.40 | 66 | 0.14 | 19.70 | 86 | <0.5 |
| 2018KTS039 | | 0.06 | 0.27 | 29 | 0.11 | 2.39 | 105 | 0.5 |
| 2018KTS040 | | 0.04 | 0.23 | 28 | 0.08 | 1.30 | 58 | <0.5 |
| 2018KTS041 | | 0.04 | 0.22 | 28 | 0.09 | 1.21 | 53 | <0.5 |
| 2018KTS042 | | 0.04 | 0.24 | 35 | 0.08 | 1.34 | 58 | <0.5 |
| 2018KTS043 | | 0.05 | 0.28 | 36 | 0.09 | 1.54 | 60 | 0.5 |
| 2018KTS044 | | 0.02 | 0.20 | 22 | 0.05 | 1.21 | 12 | 0.5 |
| 2018KTS045 | | 0.06 | 0.31 | 37 | 0.11 | 1.76 | 63 | <0.5 |
| 2018KTS046 | | 0.09 | 1.64 | 27 | 0.05 | 10.40 | 32 | 0.7 |
| 2018KTS047 | | 0.05 | 1.28 | 20 | 0.07 | 5.44 | 51 | <0.5 |
| 2018KTS048 | | 0.05 | 0.59 | 9 | 0.11 | 1.49 | 29 | <0.5 |
| 2018KTS049 | | 0.03 | 0.18 | 9 | 0.07 | 0.88 | 35 | <0.5 |
| 2018KTS050 | | 0.09 | 0.98 | 25 | 0.07 | 1.97 | 65 | 1.1 |
| 2018KTS051 | | 0.03 | 0.22 | 24 | 0.06 | 1.28 | 25 | <0.5 |
| 2018KTS052 | | 0.05 | 0.27 | 33 | 0.10 | 1.34 | 72 | <0.5 |
| 2018KTS054 | | 0.05 | 0.30 | 39 | 0.12 | 1.55 | 54 | 0.5 |
| 2018KTS055 | | 0.07 | 0.28 | 35 | 0.11 | 1.35 | 87 | 0.5 |
| 2018KTS056 | | 0.06 | 0.33 | 39 | 0.11 | 1.63 | 72 | 0.6 |
| 2018KTS057 | | 0.08 | 0.32 | 41 | 0.12 | 1.97 | 63 | <0.5 |
| 2018KTS058 | | 0.05 | 0.21 | 16 | 0.08 | 1.43 | 29 | <0.5 |
| 2018KTS059 | | 0.05 | 0.21 | 10 | 0.14 | 1.22 | 63 | <0.5 |
| 2018KTS060 | | 0.04 | 0.20 | 10 | 0.13 | 1.23 | 55 | <0.5 |
| 2018KTS061 | | 0.03 | 0.18 | 24 | 0.07 | 0.82 | 34 | <0.5 |
| 2018KTS062 | | 0.04 | 0.17 | 12 | 0.05 | 0.69 | 24 | <0.5 |
| 2018KTS063 | | 0.05 | 0.18 | 7 | 0.12 | 1.25 | 69 | <0.5 |
| 2018KTS064 | | 0.09 | 0.18 | 11 | 0.20 | 0.86 | 162 | 0.6 |
| 2018KTS065 | | 0.06 | 0.15 | 5 | 0.14 | 0.76 | 229 | <0.5 |
| 2018KTS066 | | 0.04 | 0.22 | 25 | 0.10 | 1.11 | 96 | <0.5 |
| 2018KTS067 | | 0.05 | 0.40 | 19 | <0.05 | 1.65 | 49 | 1.1 |
| 2018KTS068 | | 0.05 | 0.37 | 34 | 0.09 | 1.53 | 84 | <0.5 |
| 2018KTS069 | | 0.06 | 0.25 | 35 | 0.08 | 2.86 | 124 | <0.5 |
| 2018KTS070 | | 0.02 | 0.26 | 23 | 0.06 | 1.71 | 41 | <0.5 |



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Page: 5 - A
 Total # Pages: 7 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

Project: 99421

CERTIFICATE OF ANALYSIS SD18197526

| Sample Description | Method | WEI-21 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 |
|--------------------|---------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Analyte | Recvd Wt. | Ag | Al | As | Au | B | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs |
| Units | | kg | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| LOD | | 0.02 | 0.01 | 0.01 | 0.1 | 0.02 | 10 | 10 | 0.05 | 0.01 | 0.01 | 0.01 | 0.02 | 0.1 | 1 | 0.05 |
| 2018KTS071 | | 0.36 | 0.33 | 0.68 | 8.3 | <0.02 | <10 | 40 | 0.12 | 0.27 | 0.19 | 0.19 | 11.40 | 5.5 | 22 | 0.46 |
| 2018KTS072 | | 0.23 | 0.31 | 0.76 | 6.0 | <0.02 | <10 | 60 | 0.16 | 0.26 | 0.32 | 0.31 | 11.05 | 4.2 | 17 | 0.46 |
| 2018KTS074 | | 0.23 | 1.66 | 0.40 | 14.9 | <0.02 | <10 | 70 | 0.15 | 0.85 | 0.27 | 0.75 | 7.25 | 4.1 | 10 | 0.28 |
| 2018KTS075 | | 0.26 | 1.96 | 0.52 | 15.1 | <0.02 | <10 | 130 | 0.28 | 0.85 | 0.45 | 1.34 | 11.55 | 14.3 | 16 | 0.49 |
| 2018KTS076 | | 0.36 | 0.42 | 0.58 | 7.5 | <0.02 | <10 | 60 | 0.15 | 0.31 | 0.23 | 0.37 | 12.75 | 3.6 | 19 | 0.44 |
| 2018KTS077 | | 0.29 | 0.79 | 0.40 | 8.7 | <0.02 | <10 | 50 | 0.14 | 0.58 | 0.21 | 0.50 | 9.48 | 3.9 | 17 | 0.33 |
| 2018KTS078 | | 0.15 | 2.14 | 0.39 | 16.7 | <0.02 | <10 | 150 | 0.20 | 1.13 | 0.30 | 1.10 | 10.80 | 8.8 | 11 | 0.48 |
| 2018KTS079 | | 0.12 | 1.60 | 0.19 | 10.4 | <0.02 | <10 | 80 | 0.08 | 0.63 | 0.32 | 0.64 | 4.37 | 2.5 | 4 | 0.23 |
| 2018KTS080 | | 0.13 | 1.43 | 0.19 | 8.7 | <0.02 | <10 | 110 | 0.09 | 0.83 | 0.27 | 0.77 | 5.75 | 2.1 | 4 | 0.26 |
| 2018KTS081 | | 0.15 | 1.57 | 0.21 | 15.2 | <0.02 | <10 | 90 | 0.09 | 1.01 | 0.20 | 0.64 | 5.01 | 3.3 | 6 | 0.22 |
| 2018KTS082 | | 0.21 | 1.52 | 0.24 | 10.6 | <0.02 | <10 | 80 | 0.14 | 1.37 | 0.25 | 1.12 | 8.05 | 3.9 | 6 | 0.30 |
| 2018KTS083 | | 0.20 | 2.79 | 0.27 | 11.5 | <0.02 | <10 | 160 | 0.19 | 1.43 | 0.28 | 1.50 | 6.89 | 6.0 | 4 | 0.27 |
| 2018KTS084 | | 0.37 | 0.26 | 0.80 | 5.8 | <0.02 | <10 | 40 | 0.17 | 0.19 | 0.12 | 0.17 | 10.30 | 3.9 | 14 | 0.38 |
| 2018KTS085 | | 0.24 | 0.71 | 0.80 | 10.1 | <0.02 | <10 | 130 | 0.25 | 0.40 | 0.58 | 0.64 | 16.25 | 9.0 | 25 | 0.65 |
| 2018KTS086 | | 0.16 | 0.97 | 0.42 | 12.8 | <0.02 | <10 | 150 | 0.17 | 0.58 | 0.55 | 1.44 | 7.68 | 3.6 | 11 | 0.39 |
| 2018KTS087 | | 0.19 | 0.71 | 0.57 | 10.8 | <0.02 | <10 | 90 | 0.15 | 0.43 | 0.44 | 0.79 | 13.00 | 5.0 | 19 | 0.54 |
| 2018KTS088 | | 0.32 | 1.07 | 0.60 | 11.4 | <0.02 | <10 | 60 | 0.43 | 0.68 | 0.18 | 0.67 | 18.40 | 5.5 | 10 | 0.48 |
| 2018KTS089 | | 0.16 | 2.89 | 0.57 | 43.4 | <0.02 | <10 | 70 | 0.15 | 1.95 | 0.40 | 2.32 | 5.46 | 6.4 | 12 | 0.49 |
| 2018KTS090 | | 0.27 | 1.24 | 0.15 | 6.6 | <0.02 | <10 | 70 | 0.06 | 0.76 | 0.17 | 0.17 | 6.27 | 2.0 | 4 | 0.23 |
| 2018KTS091 | | 0.29 | 0.92 | 0.47 | 8.0 | <0.02 | <10 | 160 | 0.17 | 0.74 | 0.31 | 1.21 | 9.84 | 4.1 | 11 | 0.35 |
| 2018KTS092 | | 0.30 | 1.31 | 0.21 | 31.7 | <0.02 | <10 | 60 | 0.13 | 1.31 | 0.25 | 0.63 | 4.49 | 3.6 | 7 | 0.19 |
| 2018KTS094 | | 0.41 | 0.52 | 1.37 | 3.9 | <0.02 | <10 | 90 | 1.03 | 0.23 | 1.53 | 0.98 | 115.0 | 3.8 | 19 | 0.40 |
| 2018KTS095 | | 0.19 | 1.33 | 0.19 | 18.5 | <0.02 | <10 | 110 | 0.08 | 1.11 | 0.21 | 0.87 | 5.30 | 2.7 | 9 | 0.29 |
| 2018KTS096 | | 0.27 | 0.74 | 0.27 | 8.9 | <0.02 | <10 | 100 | 0.14 | 0.81 | 0.21 | 0.33 | 5.63 | 3.1 | 4 | 0.24 |
| 2018KTS097 | | 0.17 | 1.50 | 0.37 | 24.3 | <0.02 | <10 | 110 | 0.16 | 1.18 | 0.11 | 0.88 | 10.30 | 3.1 | 8 | 0.31 |
| 2018KTS098 | | 0.08 | 4.10 | 0.21 | 11.8 | <0.02 | <10 | 90 | 0.10 | 0.97 | 0.18 | 0.64 | 4.35 | 3.9 | 8 | 0.24 |
| 2018KTS099 | | 0.11 | 2.02 | 0.35 | 15.9 | <0.02 | <10 | 120 | 0.15 | 1.06 | 0.20 | 0.59 | 6.27 | 3.3 | 9 | 0.29 |
| 2018KTS100 | | 0.05 | 1.84 | 0.31 | 12.6 | <0.02 | <10 | 100 | 0.12 | 0.81 | 0.18 | 0.51 | 6.54 | 2.8 | 10 | 0.27 |
| 2018KTS101 | | 0.46 | 0.56 | 0.97 | 11.3 | <0.02 | <10 | 110 | 0.25 | 0.37 | 0.72 | 0.61 | 14.70 | 7.9 | 28 | 0.72 |
| 2018KTS102 | | 0.15 | 1.06 | 0.48 | 19.8 | <0.02 | <10 | 50 | 0.10 | 1.17 | 0.26 | 1.26 | 5.52 | 3.0 | 8 | 0.45 |
| 2018KTS103 | | 0.07 | 0.32 | 1.08 | 11.7 | <0.02 | <10 | 40 | 0.36 | 0.35 | 0.18 | 0.56 | 39.9 | 4.8 | 38 | 1.15 |
| 2018KTS104 | | 0.20 | 0.32 | 0.99 | 9.8 | <0.02 | <10 | 30 | 0.38 | 0.21 | 0.38 | 0.41 | 36.5 | 7.6 | 35 | 0.64 |
| 2018KTS105 | | 0.15 | 0.33 | 1.01 | 9.7 | <0.02 | <10 | 30 | 0.37 | 0.21 | 0.38 | 0.39 | 37.5 | 7.5 | 35 | 0.63 |
| 2018KTS106 | | 0.18 | 0.66 | 0.31 | 26.0 | <0.02 | <10 | 20 | 0.14 | 0.77 | 1.04 | 0.63 | 14.00 | 3.3 | 13 | 0.24 |
| 2018KTS107 | | 0.22 | 0.45 | 1.31 | 16.1 | <0.02 | <10 | 70 | 0.52 | 0.35 | 0.68 | 0.50 | 47.4 | 7.7 | 44 | 0.90 |
| 2018KTS108 | | 0.20 | 1.17 | 0.24 | 10.3 | <0.02 | <10 | 130 | 0.19 | 1.47 | 0.63 | 2.29 | 7.67 | 3.4 | 7 | 0.23 |
| 2018KTS109 | | 0.12 | 0.50 | 0.40 | 9.8 | <0.02 | <10 | 90 | 0.12 | 0.49 | 0.24 | 0.65 | 9.42 | 2.6 | 13 | 0.38 |
| 2018KTS110 | | 0.26 | 0.34 | 1.44 | 10.0 | <0.02 | <10 | 110 | 0.32 | 0.28 | 0.47 | 0.25 | 24.0 | 9.7 | 48 | 0.87 |
| 2018KBS178 | | 0.23 | 0.24 | 3.23 | 7.1 | <0.02 | <10 | 160 | 0.91 | 0.21 | 0.54 | 0.22 | 86.6 | 11.2 | 72 | 1.45 |
| 2018KBS179 | | 0.19 | 0.98 | 0.95 | 25.2 | <0.02 | <10 | 90 | 0.27 | 0.76 | 0.86 | 0.97 | 17.95 | 11.1 | 31 | 0.82 |



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Page: 5 - B
 Total # Pages: 7 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

Project: 99421

CERTIFICATE OF ANALYSIS SD18197526

| Sample Description | Method | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|
| | Analyte | Cu | Fe | Ga | Ge | Hf | Hg | In | K | La | Li | Mg | Mn | Mo | Na | Nb |
| Units | | ppm | % | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm |
| LOD | | 0.2 | 0.01 | 0.05 | 0.05 | 0.02 | 0.01 | 0.005 | 0.01 | 0.2 | 0.1 | 0.01 | 5 | 0.05 | 0.01 | 0.05 |
| 2018KTS071 | | 8.6 | 1.25 | 3.98 | <0.05 | <0.02 | 0.06 | 0.019 | 0.04 | 6.1 | 5.5 | 0.17 | 395 | 0.27 | <0.01 | 0.86 |
| 2018KTS072 | | 8.7 | 1.02 | 4.26 | <0.05 | <0.02 | 0.10 | 0.017 | 0.04 | 6.0 | 6.1 | 0.13 | 315 | 0.30 | <0.01 | 0.81 |
| 2018KTS074 | | 29.0 | 0.69 | 2.40 | <0.05 | <0.02 | 0.25 | 0.075 | 0.06 | 5.4 | 2.3 | 0.07 | 75 | 0.46 | <0.01 | 0.38 |
| 2018KTS075 | | 34.7 | 1.12 | 2.53 | <0.05 | <0.02 | 0.21 | 0.065 | 0.06 | 6.7 | 3.9 | 0.13 | 463 | 0.57 | <0.01 | 0.47 |
| 2018KTS076 | | 11.6 | 1.16 | 3.92 | <0.05 | <0.02 | 0.07 | 0.023 | 0.04 | 7.8 | 4.6 | 0.11 | 214 | 0.29 | <0.01 | 0.80 |
| 2018KTS077 | | 17.1 | 0.87 | 2.30 | 0.05 | <0.02 | 0.13 | 0.046 | 0.04 | 4.3 | 3.3 | 0.13 | 110 | 0.37 | <0.01 | 0.53 |
| 2018KTS078 | | 38.8 | 0.77 | 2.12 | 0.05 | <0.02 | 0.27 | 0.088 | 0.08 | 5.8 | 2.0 | 0.08 | 401 | 0.60 | <0.01 | 0.33 |
| 2018KTS079 | | 19.7 | 0.27 | 1.30 | <0.05 | <0.02 | 0.23 | 0.059 | 0.06 | 2.9 | 1.0 | 0.04 | 252 | 0.40 | <0.01 | 0.21 |
| 2018KTS080 | | 27.2 | 0.30 | 1.41 | <0.05 | <0.02 | 0.21 | 0.063 | 0.04 | 3.5 | 1.0 | 0.04 | 134 | 0.37 | <0.01 | 0.19 |
| 2018KTS081 | | 30.5 | 0.45 | 1.47 | 0.05 | <0.02 | 0.29 | 0.080 | 0.10 | 3.7 | 1.0 | 0.05 | 243 | 0.62 | <0.01 | 0.22 |
| 2018KTS082 | | 45.2 | 0.38 | 1.78 | 0.05 | <0.02 | 0.25 | 0.103 | 0.07 | 4.4 | 0.6 | 0.04 | 86 | 0.62 | <0.01 | 0.23 |
| 2018KTS083 | | 41.0 | 0.47 | 1.53 | 0.05 | <0.02 | 0.48 | 0.108 | 0.11 | 3.6 | 0.7 | 0.04 | 506 | 0.84 | <0.01 | 0.14 |
| 2018KTS084 | | 5.4 | 0.98 | 4.45 | <0.05 | <0.02 | 0.07 | 0.015 | 0.04 | 5.7 | 6.9 | 0.08 | 334 | 0.30 | <0.01 | 0.83 |
| 2018KTS085 | | 20.4 | 1.56 | 4.46 | <0.05 | <0.02 | 0.11 | 0.028 | 0.07 | 6.8 | 7.6 | 0.21 | 585 | 0.44 | 0.01 | 0.81 |
| 2018KTS086 | | 30.4 | 0.76 | 2.27 | <0.05 | <0.02 | 0.25 | 0.054 | 0.07 | 3.9 | 2.5 | 0.11 | 77 | 0.46 | <0.01 | 0.39 |
| 2018KTS087 | | 18.1 | 1.06 | 3.41 | <0.05 | <0.02 | 0.12 | 0.034 | 0.07 | 6.5 | 4.5 | 0.14 | 413 | 0.42 | <0.01 | 0.76 |
| 2018KTS088 | | 29.6 | 1.02 | 4.40 | <0.05 | <0.02 | 0.22 | 0.056 | 0.05 | 9.0 | 1.8 | 0.12 | 233 | 0.55 | <0.01 | 0.20 |
| 2018KTS089 | | 85.4 | 1.17 | 3.42 | 0.07 | <0.02 | 0.38 | 0.151 | 0.08 | 2.9 | 2.3 | 0.16 | 68 | 0.87 | 0.01 | 0.34 |
| 2018KTS090 | | 23.1 | 0.23 | 0.94 | <0.05 | <0.02 | 0.23 | 0.063 | 0.04 | 3.4 | 0.5 | 0.04 | 53 | 0.44 | <0.01 | 0.16 |
| 2018KTS091 | | 51.4 | 0.54 | 2.55 | <0.05 | <0.02 | 0.19 | 0.061 | 0.04 | 5.8 | 0.6 | 0.04 | 252 | 0.40 | <0.01 | 0.13 |
| 2018KTS092 | | 40.7 | 0.37 | 1.26 | 0.05 | <0.02 | 0.43 | 0.108 | 0.03 | 2.8 | 0.8 | 0.05 | 21 | 0.80 | <0.01 | 0.29 |
| 2018KTS094 | | 51.4 | 0.47 | 3.41 | 0.16 | 0.02 | 0.43 | 0.030 | 0.04 | 88.4 | 5.5 | 0.20 | 81 | 0.54 | <0.01 | 0.44 |
| 2018KTS095 | | 44.2 | 0.50 | 1.46 | 0.05 | <0.02 | 0.25 | 0.096 | 0.04 | 2.8 | 1.0 | 0.05 | 56 | 0.59 | <0.01 | 0.32 |
| 2018KTS096 | | 30.6 | 0.29 | 1.41 | <0.05 | <0.02 | 0.30 | 0.073 | 0.05 | 3.1 | 0.5 | 0.04 | 82 | 0.52 | <0.01 | 0.20 |
| 2018KTS097 | | 37.7 | 0.73 | 2.64 | 0.05 | <0.02 | 0.35 | 0.084 | 0.06 | 5.3 | 1.7 | 0.05 | 62 | 0.70 | <0.01 | 0.36 |
| 2018KTS098 | | 28.3 | 0.50 | 1.39 | 0.06 | <0.02 | 0.34 | 0.075 | 0.08 | 2.8 | 1.4 | 0.05 | 107 | 0.65 | <0.01 | 0.30 |
| 2018KTS099 | | 27.1 | 0.65 | 2.39 | <0.05 | <0.02 | 0.28 | 0.077 | 0.08 | 3.9 | 1.7 | 0.06 | 208 | 0.61 | <0.01 | 0.32 |
| 2018KTS100 | | 23.0 | 0.57 | 2.39 | <0.05 | <0.02 | 0.26 | 0.060 | 0.07 | 4.0 | 1.4 | 0.05 | 140 | 0.53 | <0.01 | 0.31 |
| 2018KTS101 | | 17.6 | 1.85 | 4.84 | <0.05 | <0.02 | 0.12 | 0.028 | 0.08 | 7.5 | 9.6 | 0.23 | 617 | 0.47 | <0.01 | 1.03 |
| 2018KTS102 | | 59.7 | 0.71 | 2.93 | <0.05 | <0.02 | 0.23 | 0.125 | 0.05 | 2.6 | 1.0 | 0.05 | 55 | 0.67 | <0.01 | 0.30 |
| 2018KTS103 | | 45.5 | 1.15 | 3.56 | 0.10 | <0.02 | 0.19 | 0.032 | 0.06 | 26.4 | 9.4 | 0.26 | 84 | 1.11 | <0.01 | 0.66 |
| 2018KTS104 | | 34.6 | 1.40 | 3.11 | 0.09 | 0.02 | 0.08 | 0.021 | 0.04 | 22.6 | 9.8 | 0.33 | 161 | 0.50 | 0.01 | 0.70 |
| 2018KTS105 | | 35.2 | 1.37 | 3.14 | 0.08 | <0.02 | 0.09 | 0.022 | 0.04 | 23.3 | 9.9 | 0.33 | 148 | 0.53 | 0.01 | 0.70 |
| 2018KTS106 | | 36.1 | 0.92 | 1.19 | 0.08 | 0.02 | 0.34 | 0.048 | 0.04 | 9.7 | 1.2 | 0.10 | 19 | 1.91 | <0.01 | 0.32 |
| 2018KTS107 | | 47.6 | 1.64 | 3.97 | 0.09 | 0.02 | 0.18 | 0.030 | 0.06 | 31.3 | 11.9 | 0.29 | 102 | 1.47 | <0.01 | 1.00 |
| 2018KTS108 | | 61.8 | 0.36 | 1.50 | 0.06 | <0.02 | 0.29 | 0.118 | 0.08 | 4.1 | 0.7 | 0.07 | 49 | 0.62 | <0.01 | 0.20 |
| 2018KTS109 | | 11.0 | 0.49 | 1.60 | <0.05 | <0.02 | 0.18 | 0.034 | 0.05 | 4.4 | 1.4 | 0.06 | 97 | 0.42 | <0.01 | 0.42 |
| 2018KTS110 | | 16.8 | 2.14 | 6.42 | <0.05 | 0.03 | 0.08 | 0.027 | 0.11 | 10.6 | 16.0 | 0.46 | 358 | 0.39 | 0.01 | 1.45 |
| 2018KBS178 | | 63.6 | 2.42 | 9.19 | 0.11 | 0.07 | 0.18 | 0.032 | 0.11 | 46.6 | 31.7 | 0.59 | 157 | 0.57 | 0.01 | 1.67 |
| 2018KBS179 | | 35.4 | 1.50 | 4.07 | <0.05 | 0.02 | 0.32 | 0.057 | 0.05 | 9.2 | 16.5 | 0.34 | 523 | 0.81 | 0.01 | 0.88 |



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Page: 5 - C
 Total # Pages: 7 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

Project: 99421

CERTIFICATE OF ANALYSIS SD18197526

| Sample Description | Method Analyte Units LOD | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | |
|--------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| | | Ni | P | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti |
| | | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | | 0.2 | 10 | 0.2 | 0.1 | 0.001 | 0.01 | 0.05 | 0.1 | 0.2 | 0.2 | 0.2 | 0.01 | 0.01 | 0.2 | 0.005 |
| 2018KTS071 | | 12.6 | 410 | 13.1 | 7.0 | <0.001 | 0.02 | 0.24 | 0.9 | 0.5 | 0.6 | 13.0 | <0.01 | 0.02 | 0.7 | 0.055 |
| 2018KTS072 | | 11.8 | 470 | 11.5 | 7.3 | <0.001 | 0.04 | 0.23 | 0.7 | 0.4 | 0.6 | 20.3 | <0.01 | 0.02 | 0.4 | 0.041 |
| 2018KTS074 | | 23.4 | 650 | 58.9 | 3.1 | 0.003 | 0.07 | 0.66 | 0.5 | 1.5 | 1.7 | 23.3 | <0.01 | 0.05 | <0.2 | 0.022 |
| 2018KTS075 | | 22.8 | 770 | 73.5 | 4.4 | 0.002 | 0.08 | 0.61 | 0.6 | 1.7 | 1.5 | 28.0 | <0.01 | 0.05 | <0.2 | 0.032 |
| 2018KTS076 | | 12.1 | 370 | 19.5 | 7.4 | <0.001 | 0.01 | 0.25 | 0.9 | 0.6 | 0.7 | 27.9 | <0.01 | 0.03 | 0.8 | 0.060 |
| 2018KTS077 | | 18.9 | 420 | 38.9 | 3.9 | 0.001 | 0.04 | 0.39 | 0.7 | 1.1 | 1.7 | 18.8 | <0.01 | 0.02 | 0.2 | 0.038 |
| 2018KTS078 | | 23.1 | 830 | 103.5 | 4.6 | 0.001 | 0.08 | 0.88 | 0.4 | 2.5 | 2.2 | 23.6 | <0.01 | 0.06 | <0.2 | 0.019 |
| 2018KTS079 | | 13.7 | 520 | 42.0 | 3.0 | <0.001 | 0.07 | 0.58 | 0.4 | 1.1 | 1.3 | 18.3 | <0.01 | 0.02 | 0.3 | 0.013 |
| 2018KTS080 | | 14.5 | 400 | 51.9 | 2.6 | 0.001 | 0.04 | 0.57 | 0.4 | 1.2 | 1.6 | 17.0 | <0.01 | 0.04 | 0.2 | 0.013 |
| 2018KTS081 | | 29.9 | 720 | 59.5 | 4.2 | 0.002 | 0.07 | 0.87 | 0.5 | 2.0 | 4.7 | 18.4 | <0.01 | 0.05 | 0.2 | 0.014 |
| 2018KTS082 | | 22.8 | 640 | 99.7 | 3.0 | 0.002 | 0.06 | 0.89 | 0.4 | 2.1 | 2.5 | 22.0 | <0.01 | 0.05 | <0.2 | 0.013 |
| 2018KTS083 | | 28.6 | 1370 | 98.4 | 4.6 | 0.002 | 0.10 | 1.38 | 0.3 | 2.5 | 2.8 | 22.3 | <0.01 | 0.05 | <0.2 | 0.008 |
| 2018KTS084 | | 9.0 | 340 | 9.8 | 5.5 | <0.001 | 0.01 | 0.19 | 0.8 | 0.5 | 0.6 | 10.5 | <0.01 | 0.02 | 0.6 | 0.044 |
| 2018KTS085 | | 19.3 | 830 | 25.6 | 9.6 | <0.001 | 0.06 | 0.29 | 1.1 | 0.8 | 0.9 | 34.4 | <0.01 | 0.05 | 0.5 | 0.056 |
| 2018KTS086 | | 23.2 | 800 | 39.5 | 3.9 | 0.002 | 0.07 | 0.53 | 0.6 | 1.5 | 1.1 | 36.2 | <0.01 | 0.06 | <0.2 | 0.025 |
| 2018KTS087 | | 16.0 | 610 | 33.6 | 5.6 | 0.001 | 0.05 | 0.31 | 0.9 | 0.9 | 1.0 | 25.9 | <0.01 | 0.03 | 0.3 | 0.048 |
| 2018KTS088 | | 16.1 | 1120 | 32.0 | 5.4 | 0.001 | 0.07 | 0.46 | 0.2 | 1.0 | 1.8 | 9.7 | <0.01 | 0.03 | <0.2 | 0.005 |
| 2018KTS089 | | 49.5 | 710 | 120.0 | 5.3 | 0.002 | 0.10 | 1.27 | 0.7 | 2.7 | 3.8 | 15.0 | <0.01 | 0.15 | <0.2 | 0.024 |
| 2018KTS090 | | 16.4 | 380 | 55.0 | 2.7 | 0.001 | 0.05 | 0.85 | 0.4 | 1.4 | 1.5 | 16.0 | <0.01 | 0.06 | 0.3 | 0.010 |
| 2018KTS091 | | 18.0 | 460 | 57.0 | 3.3 | 0.001 | 0.03 | 0.39 | 0.3 | 1.2 | 1.1 | 19.4 | <0.01 | 0.03 | <0.2 | 0.010 |
| 2018KTS092 | | 26.9 | 480 | 93.7 | 2.2 | 0.004 | 0.12 | 1.47 | 0.5 | 3.1 | 2.5 | 26.7 | <0.01 | 0.07 | 0.2 | 0.015 |
| 2018KTS094 | | 19.8 | 1370 | 19.3 | 2.6 | 0.007 | 0.42 | 0.42 | 1.4 | 1.1 | 0.6 | 47.8 | <0.01 | 0.03 | <0.2 | 0.014 |
| 2018KTS095 | | 25.3 | 370 | 84.0 | 2.8 | 0.001 | 0.04 | 0.99 | 0.6 | 2.5 | 2.6 | 17.8 | <0.01 | 0.06 | 0.3 | 0.019 |
| 2018KTS096 | | 18.4 | 680 | 91.4 | 2.6 | 0.004 | 0.11 | 0.67 | 0.3 | 2.0 | 1.5 | 21.3 | <0.01 | 0.03 | <0.2 | 0.010 |
| 2018KTS097 | | 16.7 | 590 | 99.4 | 3.7 | 0.002 | 0.04 | 1.01 | 0.4 | 2.6 | 2.3 | 13.0 | <0.01 | 0.06 | <0.2 | 0.021 |
| 2018KTS098 | | 31.4 | 830 | 65.1 | 3.2 | 0.001 | 0.09 | 0.89 | 0.5 | 2.6 | 2.9 | 18.9 | <0.01 | 0.04 | <0.2 | 0.018 |
| 2018KTS099 | | 25.6 | 870 | 69.2 | 4.4 | 0.001 | 0.07 | 0.84 | 0.3 | 1.6 | 2.4 | 23.2 | <0.01 | 0.06 | <0.2 | 0.018 |
| 2018KTS100 | | 21.8 | 760 | 55.7 | 3.9 | 0.001 | 0.07 | 0.69 | 0.3 | 1.5 | 1.9 | 22.4 | <0.01 | 0.04 | <0.2 | 0.019 |
| 2018KTS101 | | 21.1 | 780 | 21.7 | 10.5 | <0.001 | 0.05 | 0.32 | 1.2 | 0.6 | 0.9 | 43.6 | <0.01 | 0.05 | 0.5 | 0.063 |
| 2018KTS102 | | 27.9 | 560 | 74.7 | 4.1 | 0.001 | 0.10 | 0.80 | 0.6 | 1.7 | 2.3 | 13.2 | <0.01 | 0.09 | <0.2 | 0.018 |
| 2018KTS103 | | 23.6 | 960 | 23.1 | 8.0 | <0.001 | 0.16 | 0.36 | 1.7 | 1.6 | 0.8 | 9.1 | <0.01 | 0.03 | <0.2 | 0.028 |
| 2018KTS104 | | 23.3 | 810 | 12.6 | 5.0 | 0.002 | 0.08 | 0.17 | 2.3 | 1.4 | 0.5 | 12.8 | <0.01 | 0.02 | 0.3 | 0.044 |
| 2018KTS105 | | 23.7 | 780 | 12.7 | 4.9 | 0.002 | 0.08 | 0.17 | 2.3 | 1.5 | 0.5 | 13.2 | <0.01 | 0.02 | 0.4 | 0.044 |
| 2018KTS106 | | 21.4 | 820 | 46.8 | 1.9 | 0.001 | 0.28 | 1.26 | 1.0 | 2.1 | 1.6 | 14.3 | <0.01 | 0.08 | <0.2 | 0.010 |
| 2018KTS107 | | 27.4 | 500 | 20.7 | 6.4 | 0.001 | 0.14 | 0.33 | 4.0 | 2.0 | 0.8 | 14.2 | <0.01 | 0.04 | 0.6 | 0.044 |
| 2018KTS108 | | 31.2 | 620 | 158.5 | 2.2 | 0.002 | 0.08 | 0.83 | 0.5 | 2.6 | 2.4 | 26.4 | <0.01 | 0.04 | 0.2 | 0.012 |
| 2018KTS109 | | 18.9 | 590 | 31.9 | 8.2 | <0.001 | 0.08 | 0.49 | 0.3 | 1.3 | 1.1 | 29.8 | <0.01 | 0.05 | <0.2 | 0.019 |
| 2018KTS110 | | 28.9 | 620 | 19.9 | 18.2 | <0.001 | 0.03 | 0.20 | 2.2 | 0.8 | 0.8 | 33.3 | <0.01 | 0.05 | 0.9 | 0.095 |
| 2018KBS178 | | 43.9 | 680 | 12.5 | 13.8 | 0.001 | 0.07 | 0.16 | 5.5 | 1.1 | 0.7 | 23.9 | <0.01 | 0.03 | 1.6 | 0.063 |
| 2018KBS179 | | 35.0 | 550 | 47.7 | 6.6 | 0.001 | 0.09 | 0.75 | 1.8 | 1.3 | 1.5 | 32.9 | <0.01 | 0.09 | 0.7 | 0.046 |



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Page: 5 - D
 Total # Pages: 7 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

Project: 99421

CERTIFICATE OF ANALYSIS SD18197526

| Sample Description | Method Analyte Units LOD | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | |
|--------------------|-----------------------------------|---------|---------|---------|---------|---------|---------|------|
| | | Tl | U | V | W | Y | Zn | Zr |
| | | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | | 0.02 | 0.05 | 1 | 0.05 | 0.05 | 2 | 0.5 |
| 2018KTS071 | | 0.05 | 0.23 | 32 | 0.08 | 1.37 | 27 | <0.5 |
| 2018KTS072 | | 0.05 | 0.23 | 25 | 0.07 | 1.24 | 51 | <0.5 |
| 2018KTS074 | | 0.04 | 0.16 | 16 | 0.11 | 1.13 | 76 | <0.5 |
| 2018KTS075 | | 0.07 | 0.22 | 26 | 0.13 | 1.39 | 142 | <0.5 |
| 2018KTS076 | | 0.04 | 0.25 | 30 | 0.08 | 1.45 | 25 | <0.5 |
| 2018KTS077 | | 0.05 | 0.19 | 21 | 0.10 | 1.30 | 50 | <0.5 |
| 2018KTS078 | | 0.08 | 0.22 | 18 | 0.13 | 1.34 | 88 | <0.5 |
| 2018KTS079 | | 0.05 | 0.11 | 6 | 0.07 | 0.58 | 48 | <0.5 |
| 2018KTS080 | | 0.03 | 0.13 | 6 | 0.07 | 0.70 | 42 | <0.5 |
| 2018KTS081 | | 0.03 | 0.18 | 9 | 0.12 | 0.84 | 70 | <0.5 |
| 2018KTS082 | | 0.03 | 0.23 | 8 | 0.10 | 1.05 | 84 | <0.5 |
| 2018KTS083 | | 0.07 | 0.26 | 8 | 0.12 | 1.33 | 77 | <0.5 |
| 2018KTS084 | | 0.04 | 0.18 | 25 | 0.05 | 1.10 | 27 | <0.5 |
| 2018KTS085 | | 0.05 | 0.27 | 39 | 0.09 | 1.69 | 91 | 0.5 |
| 2018KTS086 | | <0.02 | 0.18 | 18 | 0.08 | 1.21 | 120 | <0.5 |
| 2018KTS087 | | 0.05 | 0.23 | 26 | 0.10 | 1.26 | 92 | <0.5 |
| 2018KTS088 | | 0.04 | 0.25 | 10 | 0.08 | 3.16 | 80 | <0.5 |
| 2018KTS089 | | 0.09 | 0.24 | 36 | 0.24 | 1.17 | 123 | <0.5 |
| 2018KTS090 | | 0.04 | 0.15 | 6 | 0.08 | 0.60 | 28 | <0.5 |
| 2018KTS091 | | 0.04 | 0.22 | 15 | 0.06 | 1.54 | 32 | <0.5 |
| 2018KTS092 | | 0.05 | 0.17 | 11 | 0.15 | 0.73 | 53 | <0.5 |
| 2018KTS094 | | 0.05 | 2.63 | 15 | 0.09 | 24.5 | 27 | <0.5 |
| 2018KTS095 | | 0.05 | 0.20 | 13 | 0.14 | 0.67 | 56 | <0.5 |
| 2018KTS096 | | 0.05 | 0.17 | 7 | 0.09 | 0.99 | 44 | <0.5 |
| 2018KTS097 | | 0.04 | 0.25 | 19 | 0.13 | 1.46 | 35 | <0.5 |
| 2018KTS098 | | 0.07 | 0.16 | 11 | 0.15 | 0.64 | 66 | <0.5 |
| 2018KTS099 | | 0.05 | 0.18 | 14 | 0.12 | 0.91 | 47 | <0.5 |
| 2018KTS100 | | 0.04 | 0.17 | 14 | 0.10 | 0.86 | 41 | <0.5 |
| 2018KTS101 | | 0.05 | 0.28 | 41 | 0.12 | 1.61 | 81 | 0.5 |
| 2018KTS102 | | 0.06 | 0.17 | 25 | 0.16 | 1.08 | 72 | <0.5 |
| 2018KTS103 | | 0.11 | 1.97 | 20 | 0.09 | 10.55 | 45 | 0.5 |
| 2018KTS104 | | 0.05 | 1.90 | 30 | 0.07 | 9.92 | 49 | 0.5 |
| 2018KTS105 | | 0.05 | 2.00 | 30 | 0.07 | 10.30 | 48 | 0.5 |
| 2018KTS106 | | 0.04 | 0.63 | 9 | 0.11 | 4.46 | 24 | 0.8 |
| 2018KTS107 | | 0.08 | 1.27 | 36 | 0.10 | 13.65 | 52 | 0.8 |
| 2018KTS108 | | 0.04 | 0.23 | 8 | 0.11 | 1.27 | 47 | <0.5 |
| 2018KTS109 | | 0.04 | 0.16 | 9 | 0.09 | 0.96 | 18 | <0.5 |
| 2018KTS110 | | 0.06 | 0.35 | 47 | 0.13 | 2.52 | 58 | 1.1 |
| 2018KBS178 | | 0.16 | 4.36 | 47 | 0.08 | 15.15 | 43 | 2.2 |
| 2018KBS179 | | 0.06 | 0.58 | 32 | 0.12 | 2.70 | 77 | 0.8 |



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Page: 6 - A
 Total # Pages: 7 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

Project: 99421

CERTIFICATE OF ANALYSIS SD18197526

| Sample Description | Method | WEI-21 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 |
|--------------------|---------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Analyte | Recvd Wt. | Ag | Al | As | Au | B | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs |
| Units | | kg | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| LOD | | 0.02 | 0.01 | 0.01 | 0.1 | 0.02 | 10 | 10 | 0.05 | 0.01 | 0.01 | 0.01 | 0.02 | 0.1 | 1 | 0.05 |
| 2018KBS180 | | 0.20 | 0.50 | 0.88 | 18.6 | <0.02 | <10 | 50 | 0.21 | 0.38 | 0.59 | 0.50 | 19.35 | 6.6 | 29 | 0.79 |
| 2018KBS181 | | 0.09 | 0.67 | 0.16 | 5.9 | <0.02 | <10 | 110 | 0.13 | 0.83 | 0.32 | 1.38 | 5.62 | 2.0 | 6 | 0.19 |
| 2018KBS182 | | 0.08 | 1.51 | 0.16 | 7.5 | <0.02 | <10 | 60 | 0.07 | 0.61 | 0.20 | 0.69 | 5.26 | 2.7 | 10 | 0.19 |
| 2018KBS183 | | 0.05 | 0.93 | 0.23 | 8.9 | <0.02 | <10 | 130 | 0.13 | 1.30 | 0.18 | 0.94 | 7.98 | 2.6 | 11 | 0.20 |
| 2018KBS184 | | 0.09 | 0.78 | 0.24 | 11.8 | <0.02 | <10 | 100 | 0.09 | 1.04 | 0.18 | 0.90 | 9.81 | 2.3 | 8 | 0.32 |
| 2018KBS185 | | 0.06 | 2.43 | 0.41 | 29.6 | <0.02 | <10 | 140 | 0.17 | 1.91 | 0.31 | 1.27 | 7.19 | 7.2 | 17 | 0.42 |
| 2018KBS186 | | 0.08 | 0.58 | 0.24 | 12.5 | <0.02 | <10 | 90 | 0.11 | 0.61 | 0.34 | 0.47 | 7.14 | 3.0 | 13 | 0.17 |
| 2018KBS187 | | 0.08 | 0.87 | 0.27 | 9.1 | <0.02 | <10 | 270 | 0.20 | 1.80 | 0.32 | 1.12 | 8.86 | 6.2 | 8 | 0.21 |
| 2018KBS188 | | 0.11 | 0.87 | 0.15 | 8.7 | <0.02 | <10 | 70 | 0.07 | 0.72 | 0.17 | 0.62 | 4.87 | 2.3 | 6 | 0.24 |
| 2018KBS189 | | 0.10 | 0.57 | 0.23 | 11.1 | <0.02 | <10 | 110 | 0.11 | 1.16 | 0.19 | 1.06 | 6.27 | 2.4 | 7 | 0.26 |
| 2018KBS190 | | 0.11 | 0.29 | 0.23 | 9.9 | <0.02 | <10 | 70 | 0.09 | 0.96 | 0.18 | 0.97 | 6.03 | 2.3 | 12 | 0.25 |
| 2018KBS191 | | 0.08 | 1.08 | 0.38 | 34.7 | <0.02 | 10 | 60 | 0.11 | 2.00 | 0.19 | 0.90 | 6.84 | 4.0 | 16 | 0.39 |
| 2018KBS192 | | 0.09 | 0.34 | 0.19 | 8.5 | <0.02 | <10 | 60 | 0.07 | 0.81 | 0.15 | 0.38 | 6.89 | 1.4 | 7 | 0.29 |
| 2018KBS194 | | 0.06 | 1.03 | 0.17 | 13.1 | <0.02 | <10 | 70 | 0.11 | 1.06 | 0.18 | 0.93 | 5.94 | 2.5 | 9 | 0.36 |
| 2018KBS195 | | 0.09 | 0.78 | 0.17 | 7.0 | <0.02 | <10 | 80 | 0.09 | 0.91 | 0.27 | 0.88 | 8.75 | 4.4 | 6 | 0.20 |
| 2018KBS196 | | 0.06 | 1.23 | 0.12 | 6.9 | <0.02 | <10 | 80 | 0.07 | 0.71 | 0.16 | 0.72 | 4.39 | 2.6 | 4 | 0.20 |
| 2018KBS197 | | 0.06 | 1.31 | 0.75 | 12.8 | <0.02 | <10 | 70 | 0.62 | 1.03 | 0.54 | 0.56 | 39.6 | 26.9 | 11 | 0.52 |
| 2018KBS198 | | 0.08 | 0.99 | 0.25 | 17.7 | <0.02 | <10 | 90 | 0.12 | 1.10 | 0.17 | 1.00 | 8.61 | 2.9 | 7 | 0.26 |
| 2018KBS199 | | 0.19 | 0.18 | 0.37 | 13.9 | <0.02 | <10 | 40 | 0.11 | 0.25 | 0.07 | 0.36 | 6.70 | 1.8 | 9 | 0.14 |
| 2018KBS200 | | 0.15 | 0.18 | 0.41 | 13.2 | <0.02 | <10 | 40 | 0.13 | 0.28 | 0.09 | 0.38 | 7.25 | 1.9 | 7 | 0.19 |
| 2018KBS201 | | 0.05 | 0.60 | 0.29 | 13.5 | <0.02 | <10 | 100 | 0.18 | 2.45 | 0.23 | 0.96 | 9.52 | 5.7 | 11 | 0.34 |
| 2018KBS202 | | 0.05 | 1.02 | 0.51 | 27.7 | <0.02 | <10 | 130 | 0.18 | 1.40 | 0.36 | 1.34 | 9.20 | 5.7 | 15 | 0.44 |
| 2018KBS203 | | 0.17 | 0.93 | 0.64 | 13.5 | <0.02 | <10 | 170 | 0.42 | 1.22 | 0.26 | 1.49 | 17.60 | 4.7 | 14 | 0.39 |
| 2018KBS204 | | 0.10 | 1.35 | 0.23 | 13.2 | <0.02 | 10 | 90 | 0.11 | 1.09 | 0.30 | 1.06 | 7.42 | 4.9 | 9 | 0.21 |
| 2018KBS205 | | 0.11 | 1.22 | 0.55 | 19.8 | <0.02 | <10 | 60 | 0.40 | 1.02 | 0.48 | 0.53 | 13.00 | 4.3 | 9 | 0.28 |
| 2018KBS206 | | 0.19 | 0.90 | 0.38 | 10.3 | <0.02 | <10 | 270 | 0.21 | 0.95 | 0.37 | 1.50 | 12.25 | 6.6 | 11 | 0.30 |
| 2018KBS207 | | 0.10 | 1.67 | 0.23 | 11.9 | <0.02 | <10 | 120 | 0.14 | 0.83 | 0.40 | 0.90 | 7.69 | 3.4 | 6 | 0.24 |
| 2018KBS208 | | 0.07 | 1.17 | 0.58 | 18.7 | <0.02 | <10 | 60 | 0.12 | 0.71 | 0.21 | 0.62 | 7.60 | 4.7 | 16 | 0.53 |
| 2018KBS209 | | 0.12 | 1.05 | 0.25 | 14.1 | <0.02 | <10 | 130 | 0.16 | 1.28 | 0.32 | 1.14 | 8.01 | 3.9 | 8 | 0.24 |
| 2018KBS210 | | 0.12 | 0.67 | 0.38 | 25.5 | <0.02 | 10 | 70 | 0.12 | 1.08 | 0.40 | 0.93 | 9.72 | 3.0 | 11 | 0.41 |
| 2018KBS211 | | 0.11 | 1.63 | 0.54 | 21.7 | <0.02 | <10 | 210 | 0.25 | 2.74 | 0.42 | 2.44 | 13.25 | 7.7 | 15 | 0.40 |
| 2018KBS212 | | 0.11 | 0.91 | 0.29 | 27.4 | <0.02 | 10 | 160 | 0.12 | 2.23 | 0.51 | 1.16 | 8.73 | 5.2 | 8 | 0.34 |
| 2018KBS214 | | 0.11 | 1.69 | 0.23 | 13.0 | <0.02 | <10 | 80 | 0.14 | 1.30 | 0.24 | 0.62 | 8.29 | 4.7 | 8 | 0.29 |
| 2018KBS215 | | 0.09 | 2.98 | 0.39 | 31.6 | <0.02 | <10 | 220 | 0.18 | 2.12 | 0.25 | 1.44 | 11.05 | 16.1 | 16 | 0.41 |
| 2018KBS216 | | 0.15 | 0.92 | 0.32 | 17.4 | <0.02 | <10 | 340 | 0.17 | 1.74 | 0.24 | 1.32 | 9.41 | 4.8 | 11 | 0.33 |
| 2018KBS217 | | 0.11 | 3.15 | 0.29 | 18.0 | <0.02 | <10 | 130 | 0.18 | 1.57 | 0.31 | 1.33 | 7.59 | 6.5 | 7 | 0.23 |
| 2018KBS218 | | 0.17 | 1.20 | 0.71 | 51.4 | <0.02 | <10 | 30 | 0.15 | 0.86 | 0.12 | 0.49 | 8.52 | 4.6 | 21 | 0.47 |
| 2018KBS219 | | 0.16 | 1.70 | 0.22 | 28.8 | <0.02 | <10 | 40 | 0.11 | 1.14 | 0.63 | 0.90 | 3.45 | 4.3 | 6 | 0.19 |
| 2018KBS220 | | 0.10 | 1.54 | 0.21 | 28.8 | <0.02 | 10 | 30 | 0.11 | 1.10 | 0.67 | 0.87 | 3.30 | 4.2 | 7 | 0.19 |
| 2018KBS221 | | 0.05 | 2.48 | 0.42 | 44.3 | <0.02 | <10 | 80 | 0.17 | 1.17 | 0.26 | 0.72 | 7.06 | 7.2 | 14 | 0.41 |



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Page: 6 - B
 Total # Pages: 7 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

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|------------------------------------|
| CERTIFICATE OF ANALYSIS SD18197526 |
|------------------------------------|

| Sample Description | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 |
|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Cu | Fe | Ga | Ge | Hf | Hg | In | K | La | Li | Mg | Mn | Mo | Na | Nb |
| | ppm | % | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm |
| Method Analyte Units LOD | 0.2 | 0.01 | 0.05 | 0.05 | 0.02 | 0.01 | 0.005 | 0.01 | 0.2 | 0.1 | 0.01 | 5 | 0.05 | 0.01 | 0.05 |
| 2018KBS180 | 21.2 | 1.38 | 3.90 | <0.05 | 0.02 | 0.23 | 0.031 | 0.04 | 9.7 | 11.9 | 0.27 | 207 | 0.97 | <0.01 | 0.89 |
| 2018KBS181 | 37.5 | 0.30 | 0.98 | <0.05 | <0.02 | 0.11 | 0.067 | 0.02 | 4.7 | 0.5 | 0.03 | 59 | 0.30 | <0.01 | 0.13 |
| 2018KBS182 | 21.6 | 0.46 | 1.26 | <0.05 | <0.02 | 0.16 | 0.041 | 0.04 | 3.0 | 1.0 | 0.04 | 72 | 0.34 | <0.01 | 0.24 |
| 2018KBS183 | 36.0 | 0.38 | 1.54 | <0.05 | <0.02 | 0.16 | 0.080 | 0.04 | 7.2 | 0.8 | 0.04 | 61 | 0.44 | <0.01 | 0.22 |
| 2018KBS184 | 31.0 | 0.34 | 1.68 | <0.05 | <0.02 | 0.15 | 0.072 | 0.04 | 6.7 | 0.9 | 0.03 | 22 | 0.45 | <0.01 | 0.23 |
| 2018KBS185 | 66.0 | 0.67 | 2.02 | 0.05 | <0.02 | 0.27 | 0.144 | 0.06 | 4.4 | 1.7 | 0.07 | 65 | 0.78 | 0.01 | 0.35 |
| 2018KBS186 | 19.3 | 0.52 | 1.39 | <0.05 | <0.02 | 0.11 | 0.036 | 0.04 | 4.0 | 1.1 | 0.06 | 72 | 0.25 | <0.01 | 0.40 |
| 2018KBS187 | 55.9 | 0.42 | 1.54 | <0.05 | <0.02 | 0.21 | 0.108 | 0.05 | 7.1 | 0.7 | 0.04 | 63 | 0.39 | <0.01 | 0.19 |
| 2018KBS188 | 22.3 | 0.32 | 1.20 | <0.05 | <0.02 | 0.12 | 0.049 | 0.03 | 3.7 | 0.8 | 0.03 | 82 | 0.31 | <0.01 | 0.22 |
| 2018KBS189 | 37.9 | 0.32 | 1.43 | <0.05 | <0.02 | 0.17 | 0.084 | 0.04 | 5.1 | 0.7 | 0.03 | 34 | 0.37 | <0.01 | 0.20 |
| 2018KBS190 | 25.3 | 0.43 | 1.65 | <0.05 | <0.02 | 0.16 | 0.069 | 0.03 | 4.0 | 0.8 | 0.03 | 74 | 0.47 | <0.01 | 0.26 |
| 2018KBS191 | 50.4 | 0.68 | 2.41 | <0.05 | <0.02 | 0.38 | 0.136 | 0.08 | 4.7 | 1.5 | 0.05 | 53 | 0.85 | <0.01 | 0.39 |
| 2018KBS192 | 13.1 | 0.35 | 1.18 | <0.05 | <0.02 | 0.12 | 0.055 | 0.03 | 3.3 | 0.7 | 0.02 | 50 | 0.35 | <0.01 | 0.15 |
| 2018KBS194 | 30.4 | 0.46 | 1.29 | <0.05 | <0.02 | 0.19 | 0.068 | 0.04 | 4.9 | 0.7 | 0.03 | 28 | 0.37 | <0.01 | 0.22 |
| 2018KBS195 | 29.9 | 0.34 | 1.16 | <0.05 | <0.02 | 0.12 | 0.063 | 0.04 | 6.8 | 0.7 | 0.04 | 51 | 0.26 | <0.01 | 0.15 |
| 2018KBS196 | 22.3 | 0.25 | 0.92 | <0.05 | <0.02 | 0.12 | 0.051 | 0.03 | 3.4 | 0.5 | 0.02 | 26 | 0.28 | <0.01 | 0.12 |
| 2018KBS197 | 36.2 | 0.32 | 2.85 | 0.06 | <0.02 | 0.45 | 0.058 | 0.08 | 33.6 | 2.8 | 0.09 | 44 | 0.56 | 0.01 | 0.31 |
| 2018KBS198 | 38.1 | 0.38 | 1.42 | <0.05 | <0.02 | 0.25 | 0.077 | 0.03 | 5.5 | 0.8 | 0.03 | 25 | 0.46 | <0.01 | 0.22 |
| 2018KBS199 | 11.9 | 0.96 | 1.70 | <0.05 | <0.02 | 0.17 | 0.016 | 0.02 | 3.5 | 0.7 | 0.02 | 10 | 0.38 | <0.01 | 0.32 |
| 2018KBS200 | 14.3 | 0.86 | 1.53 | <0.05 | <0.02 | 0.20 | 0.021 | 0.02 | 3.7 | 0.7 | 0.02 | 11 | 0.36 | <0.01 | 0.28 |
| 2018KBS201 | 70.1 | 0.57 | 2.23 | <0.05 | <0.02 | 0.14 | 0.184 | 0.07 | 5.8 | 1.1 | 0.05 | 49 | 0.53 | <0.01 | 0.30 |
| 2018KBS202 | 42.8 | 1.13 | 3.96 | <0.05 | <0.02 | 0.20 | 0.092 | 0.09 | 5.5 | 4.9 | 0.10 | 1080 | 0.69 | <0.01 | 0.69 |
| 2018KBS203 | 51.4 | 0.70 | 2.84 | <0.05 | <0.02 | 0.26 | 0.106 | 0.06 | 12.1 | 2.1 | 0.07 | 133 | 0.54 | <0.01 | 0.31 |
| 2018KBS204 | 40.8 | 0.46 | 1.67 | <0.05 | <0.02 | 0.20 | 0.078 | 0.05 | 4.3 | 0.8 | 0.05 | 54 | 0.44 | <0.01 | 0.27 |
| 2018KBS205 | 23.9 | 0.95 | 3.85 | <0.05 | <0.02 | 0.37 | 0.064 | 0.04 | 7.6 | 1.5 | 0.06 | 55 | 0.96 | <0.01 | 0.70 |
| 2018KBS206 | 37.0 | 0.54 | 1.88 | <0.05 | <0.02 | 0.27 | 0.073 | 0.04 | 7.7 | 1.0 | 0.06 | 451 | 0.47 | <0.01 | 0.22 |
| 2018KBS207 | 29.9 | 0.37 | 1.67 | <0.05 | <0.02 | 0.23 | 0.056 | 0.05 | 6.9 | 0.9 | 0.05 | 65 | 0.48 | <0.01 | 0.31 |
| 2018KBS208 | 29.1 | 0.88 | 2.52 | <0.05 | <0.02 | 0.22 | 0.054 | 0.06 | 4.0 | 4.3 | 0.12 | 61 | 0.53 | <0.01 | 0.65 |
| 2018KBS209 | 42.1 | 0.44 | 1.67 | <0.05 | <0.02 | 0.24 | 0.086 | 0.06 | 7.4 | 0.8 | 0.05 | 39 | 0.54 | <0.01 | 0.22 |
| 2018KBS210 | 24.2 | 0.66 | 2.43 | <0.05 | <0.02 | 0.31 | 0.081 | 0.06 | 5.4 | 1.8 | 0.06 | 338 | 0.67 | <0.01 | 0.49 |
| 2018KBS211 | 84.2 | 0.76 | 2.84 | <0.05 | <0.02 | 0.38 | 0.201 | 0.07 | 7.9 | 1.7 | 0.08 | 116 | 0.78 | <0.01 | 0.35 |
| 2018KBS212 | 66.6 | 0.51 | 1.60 | 0.07 | 0.02 | 0.40 | 0.182 | 0.09 | 5.7 | 0.9 | 0.07 | 35 | 0.97 | <0.01 | 0.26 |
| 2018KBS214 | 34.9 | 0.42 | 1.63 | <0.05 | <0.02 | 0.23 | 0.077 | 0.05 | 7.1 | 0.8 | 0.03 | 125 | 0.61 | <0.01 | 0.18 |
| 2018KBS215 | 55.0 | 0.98 | 2.63 | <0.05 | <0.02 | 0.21 | 0.118 | 0.06 | 8.0 | 2.5 | 0.08 | 2140 | 0.66 | <0.01 | 0.40 |
| 2018KBS216 | 42.6 | 0.56 | 2.41 | <0.05 | <0.02 | 0.16 | 0.129 | 0.04 | 5.4 | 1.4 | 0.06 | 558 | 0.54 | <0.01 | 0.30 |
| 2018KBS217 | 43.9 | 0.47 | 1.79 | 0.05 | <0.02 | 0.31 | 0.115 | 0.05 | 7.4 | 1.1 | 0.04 | 72 | 0.50 | <0.01 | 0.22 |
| 2018KBS218 | 24.3 | 1.58 | 4.62 | <0.05 | <0.02 | 0.16 | 0.050 | 0.04 | 4.4 | 5.7 | 0.13 | 73 | 0.73 | <0.01 | 0.62 |
| 2018KBS219 | 34.8 | 0.38 | 1.48 | <0.05 | 0.02 | 0.47 | 0.091 | 0.05 | 2.7 | 0.9 | 0.05 | 30 | 0.89 | <0.01 | 0.22 |
| 2018KBS220 | 34.3 | 0.39 | 1.47 | <0.05 | 0.02 | 0.48 | 0.093 | 0.04 | 2.5 | 1.0 | 0.05 | 23 | 0.88 | <0.01 | 0.23 |
| 2018KBS221 | 33.6 | 0.79 | 2.17 | <0.05 | <0.02 | 0.31 | 0.063 | 0.05 | 3.2 | 2.8 | 0.10 | 214 | 0.56 | <0.01 | 0.46 |



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Page: 6 - C
 Total # Pages: 7 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

Project: 99421

| |
|---|
| CERTIFICATE OF ANALYSIS SD18197526 |
|---|

| Sample Description | Method | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 |
|--------------------|-------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Analyte Units LOD | Ni | P | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti |
| | | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | | 0.2 | 10 | 0.2 | 0.1 | 0.001 | 0.01 | 0.05 | 0.1 | 0.2 | 0.2 | 0.2 | 0.01 | 0.01 | 0.2 | 0.005 |
| 2018KBS180 | | 21.7 | 400 | 23.1 | 6.1 | <0.001 | 0.07 | 0.47 | 1.8 | 0.8 | 0.8 | 25.8 | <0.01 | 0.05 | 1.0 | 0.050 |
| 2018KBS181 | | 16.9 | 310 | 72.6 | 1.5 | 0.001 | 0.04 | 0.38 | 0.2 | 1.2 | 1.4 | 44.5 | <0.01 | 0.03 | <0.2 | 0.009 |
| 2018KBS182 | | 20.9 | 430 | 29.7 | 2.2 | 0.001 | 0.06 | 0.61 | 0.3 | 1.0 | 1.5 | 17.5 | <0.01 | 0.02 | <0.2 | 0.017 |
| 2018KBS183 | | 24.1 | 430 | 93.8 | 2.7 | 0.001 | 0.05 | 0.58 | 0.2 | 1.6 | 2.2 | 35.6 | <0.01 | 0.05 | <0.2 | 0.012 |
| 2018KBS184 | | 22.9 | 410 | 69.8 | 3.6 | 0.001 | 0.05 | 0.70 | 0.3 | 1.3 | 1.8 | 20.3 | <0.01 | 0.03 | 0.3 | 0.013 |
| 2018KBS185 | | 51.1 | 680 | 138.5 | 4.3 | 0.001 | 0.10 | 1.03 | 0.3 | 3.3 | 3.7 | 24.8 | <0.01 | 0.07 | <0.2 | 0.016 |
| 2018KBS186 | | 18.6 | 360 | 37.3 | 2.2 | 0.001 | 0.07 | 0.40 | 0.4 | 0.9 | 1.0 | 27.3 | <0.01 | 0.04 | 0.2 | 0.023 |
| 2018KBS187 | | 36.8 | 400 | 111.5 | 2.6 | 0.003 | 0.06 | 0.62 | 0.2 | 2.0 | 3.0 | 47.9 | <0.01 | 0.05 | <0.2 | 0.009 |
| 2018KBS188 | | 18.1 | 310 | 47.3 | 2.5 | <0.001 | 0.04 | 0.53 | 0.3 | 0.8 | 1.4 | 16.8 | <0.01 | 0.04 | <0.2 | 0.013 |
| 2018KBS189 | | 21.5 | 340 | 81.2 | 2.6 | 0.003 | 0.06 | 0.65 | 0.2 | 1.1 | 1.7 | 27.2 | <0.01 | 0.05 | <0.2 | 0.012 |
| 2018KBS190 | | 23.8 | 310 | 67.6 | 2.5 | 0.002 | 0.05 | 0.61 | 0.3 | 0.8 | 1.6 | 19.6 | <0.01 | 0.04 | <0.2 | 0.015 |
| 2018KBS191 | | 46.2 | 680 | 120.5 | 5.0 | 0.003 | 0.12 | 1.45 | 0.4 | 2.2 | 3.2 | 15.3 | <0.01 | 0.09 | <0.2 | 0.018 |
| 2018KBS192 | | 17.9 | 310 | 62.4 | 3.0 | 0.001 | 0.04 | 0.54 | 0.1 | 0.8 | 1.5 | 12.9 | <0.01 | 0.04 | <0.2 | 0.009 |
| 2018KBS194 | | 24.5 | 300 | 71.7 | 3.4 | 0.002 | 0.05 | 0.58 | 0.4 | 1.2 | 1.9 | 21.7 | <0.01 | 0.04 | 0.2 | 0.015 |
| 2018KBS195 | | 23.3 | 310 | 62.3 | 3.0 | <0.001 | 0.04 | 0.51 | 0.4 | 0.7 | 1.8 | 17.2 | <0.01 | 0.02 | 0.3 | 0.009 |
| 2018KBS196 | | 17.9 | 300 | 47.4 | 2.1 | 0.001 | 0.04 | 0.48 | 0.3 | 0.9 | 1.5 | 15.6 | <0.01 | 0.03 | 0.2 | 0.008 |
| 2018KBS197 | | 49.0 | 1270 | 60.1 | 5.7 | 0.002 | 0.34 | 0.69 | 0.6 | 1.2 | 1.8 | 26.7 | <0.01 | 0.02 | <0.2 | 0.007 |
| 2018KBS198 | | 25.9 | 320 | 65.9 | 3.6 | 0.001 | 0.05 | 0.85 | 0.5 | 1.2 | 1.7 | 18.8 | <0.01 | 0.05 | 0.5 | 0.013 |
| 2018KBS199 | | 8.8 | 330 | 38.1 | 1.4 | 0.002 | 0.08 | 0.33 | 0.3 | 0.8 | 0.5 | 14.8 | <0.01 | 0.05 | <0.2 | 0.017 |
| 2018KBS200 | | 9.8 | 370 | 43.1 | 1.8 | 0.003 | 0.10 | 0.40 | 0.4 | 1.0 | 0.7 | 17.4 | <0.01 | 0.06 | <0.2 | 0.014 |
| 2018KBS201 | | 25.4 | 460 | 199.0 | 3.5 | 0.003 | 0.05 | 0.84 | 0.3 | 2.4 | 3.7 | 27.8 | <0.01 | 0.05 | <0.2 | 0.016 |
| 2018KBS202 | | 37.7 | 900 | 88.8 | 5.7 | 0.001 | 0.06 | 0.95 | 0.6 | 1.5 | 2.6 | 24.2 | <0.01 | 0.11 | <0.2 | 0.036 |
| 2018KBS203 | | 23.0 | 700 | 123.0 | 4.7 | 0.001 | 0.06 | 0.66 | 0.2 | 2.3 | 1.9 | 23.4 | <0.01 | 0.08 | <0.2 | 0.011 |
| 2018KBS204 | | 28.3 | 460 | 69.1 | 2.9 | 0.001 | 0.07 | 0.86 | 0.5 | 1.2 | 2.0 | 24.0 | <0.01 | 0.05 | 0.4 | 0.015 |
| 2018KBS205 | | 18.5 | 600 | 61.7 | 2.7 | 0.001 | 0.09 | 1.01 | 0.7 | 1.6 | 1.8 | 27.9 | <0.01 | 0.08 | <0.2 | 0.033 |
| 2018KBS206 | | 19.5 | 590 | 73.7 | 3.5 | 0.002 | 0.07 | 0.66 | 0.3 | 1.6 | 1.3 | 33.9 | <0.01 | 0.05 | <0.2 | 0.011 |
| 2018KBS207 | | 19.3 | 530 | 59.9 | 3.3 | 0.002 | 0.08 | 0.89 | 0.5 | 1.0 | 1.4 | 32.0 | <0.01 | 0.07 | 0.2 | 0.017 |
| 2018KBS208 | | 25.0 | 700 | 37.9 | 5.5 | 0.002 | 0.11 | 0.61 | 0.5 | 1.3 | 1.5 | 17.8 | <0.01 | 0.06 | <0.2 | 0.028 |
| 2018KBS209 | | 25.3 | 560 | 92.3 | 3.5 | 0.001 | 0.10 | 0.73 | 0.3 | 1.5 | 2.1 | 35.0 | <0.01 | 0.04 | <0.2 | 0.012 |
| 2018KBS210 | | 22.5 | 680 | 65.1 | 4.5 | 0.003 | 0.09 | 0.96 | 0.4 | 1.3 | 1.7 | 17.4 | <0.01 | 0.05 | <0.2 | 0.025 |
| 2018KBS211 | | 50.6 | 770 | 185.5 | 4.5 | 0.003 | 0.10 | 1.46 | 0.3 | 3.0 | 4.3 | 24.6 | <0.01 | 0.07 | <0.2 | 0.015 |
| 2018KBS212 | | 51.9 | 840 | 157.0 | 3.5 | 0.004 | 0.16 | 1.84 | 0.6 | 2.4 | 3.7 | 42.2 | <0.01 | 0.08 | 0.3 | 0.011 |
| 2018KBS214 | | 28.7 | 450 | 80.5 | 3.4 | 0.002 | 0.05 | 0.95 | 0.3 | 1.3 | 2.6 | 23.6 | <0.01 | 0.05 | <0.2 | 0.010 |
| 2018KBS215 | | 48.0 | 660 | 135.5 | 5.0 | 0.001 | 0.07 | 1.23 | 0.5 | 2.2 | 3.3 | 20.5 | <0.01 | 0.11 | <0.2 | 0.024 |
| 2018KBS216 | | 22.4 | 580 | 170.5 | 3.1 | 0.002 | 0.06 | 0.70 | 0.3 | 3.5 | 3.0 | 28.8 | <0.01 | 0.05 | <0.2 | 0.013 |
| 2018KBS217 | | 37.2 | 590 | 104.5 | 2.6 | 0.001 | 0.08 | 1.46 | 0.3 | 2.1 | 2.9 | 25.7 | <0.01 | 0.06 | <0.2 | 0.012 |
| 2018KBS218 | | 23.2 | 400 | 38.9 | 5.7 | 0.001 | 0.05 | 0.82 | 0.7 | 1.3 | 1.6 | 9.1 | <0.01 | 0.14 | <0.2 | 0.041 |
| 2018KBS219 | | 29.0 | 800 | 66.6 | 2.5 | 0.002 | 0.18 | 1.60 | 0.4 | 3.0 | 2.0 | 25.6 | <0.01 | 0.05 | <0.2 | 0.011 |
| 2018KBS220 | | 29.5 | 760 | 64.1 | 2.4 | 0.002 | 0.20 | 1.40 | 0.4 | 2.9 | 2.0 | 28.2 | <0.01 | 0.06 | <0.2 | 0.012 |
| 2018KBS221 | | 61.1 | 570 | 46.0 | 4.1 | 0.001 | 0.08 | 1.21 | 0.7 | 1.5 | 2.2 | 19.9 | <0.01 | 0.07 | 0.2 | 0.024 |



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Page: 6 - D
 Total # Pages: 7 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

Project: 99421

CERTIFICATE OF ANALYSIS SD18197526

| Sample Description | Method Analyte Units LOD | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | |
|--------------------|-----------------------------------|---------|---------|---------|---------|---------|---------|------|
| | | Tl | U | V | W | Y | Zn | Zr |
| | | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | | 0.02 | 0.05 | 1 | 0.05 | 0.05 | 2 | 0.5 |
| 2018KBS180 | | 0.06 | 0.70 | 30 | 0.10 | 2.82 | 39 | 0.7 |
| 2018KBS181 | | 0.02 | 0.13 | 6 | 0.05 | 1.00 | 46 | <0.5 |
| 2018KBS182 | | 0.03 | 0.15 | 11 | 0.07 | 0.69 | 49 | <0.5 |
| 2018KBS183 | | 0.04 | 0.17 | 9 | 0.11 | 1.27 | 43 | <0.5 |
| 2018KBS184 | | 0.04 | 0.19 | 8 | 0.07 | 1.21 | 31 | <0.5 |
| 2018KBS185 | | 0.07 | 0.24 | 15 | 0.21 | 0.96 | 105 | <0.5 |
| 2018KBS186 | | 0.03 | 0.15 | 12 | 0.09 | 0.75 | 48 | <0.5 |
| 2018KBS187 | | 0.02 | 0.18 | 7 | 0.09 | 1.64 | 35 | <0.5 |
| 2018KBS188 | | 0.02 | 0.12 | 8 | 0.07 | 0.70 | 27 | <0.5 |
| 2018KBS189 | | 0.02 | 0.15 | 7 | 0.08 | 1.14 | 25 | <0.5 |
| 2018KBS190 | | 0.03 | 0.17 | 10 | 0.09 | 0.90 | 31 | <0.5 |
| 2018KBS191 | | 0.04 | 0.23 | 16 | 0.16 | 1.17 | 54 | <0.5 |
| 2018KBS192 | | 0.03 | 0.14 | 7 | 0.07 | 0.73 | 18 | <0.5 |
| 2018KBS194 | | 0.03 | 0.15 | 11 | 0.09 | 0.94 | 36 | <0.5 |
| 2018KBS195 | | 0.04 | 0.14 | 7 | 0.08 | 1.35 | 21 | <0.5 |
| 2018KBS196 | | 0.03 | 0.11 | 5 | 0.07 | 0.56 | 53 | <0.5 |
| 2018KBS197 | | 0.10 | 0.83 | 7 | 0.06 | 7.87 | 24 | <0.5 |
| 2018KBS198 | | 0.05 | 0.21 | 9 | 0.10 | 1.07 | 44 | <0.5 |
| 2018KBS199 | | <0.02 | 0.23 | 11 | 0.05 | 0.97 | 8 | <0.5 |
| 2018KBS200 | | 0.02 | 0.24 | 9 | 0.05 | 1.08 | 11 | <0.5 |
| 2018KBS201 | | 0.03 | 0.31 | 14 | 0.13 | 1.28 | 70 | <0.5 |
| 2018KBS202 | | 0.06 | 0.27 | 25 | 0.20 | 1.12 | 71 | <0.5 |
| 2018KBS203 | | 0.04 | 0.44 | 14 | 0.10 | 3.10 | 52 | <0.5 |
| 2018KBS204 | | 0.03 | 0.21 | 12 | 0.11 | 0.82 | 66 | <0.5 |
| 2018KBS205 | | 0.04 | 0.36 | 31 | 0.12 | 2.00 | 36 | <0.5 |
| 2018KBS206 | | 0.04 | 0.52 | 13 | 0.10 | 1.91 | 84 | <0.5 |
| 2018KBS207 | | 0.04 | 0.17 | 10 | 0.10 | 1.37 | 39 | <0.5 |
| 2018KBS208 | | 0.05 | 0.22 | 21 | 0.14 | 0.93 | 89 | <0.5 |
| 2018KBS209 | | 0.05 | 0.19 | 10 | 0.10 | 1.62 | 34 | <0.5 |
| 2018KBS210 | | 0.06 | 0.22 | 16 | 0.14 | 1.08 | 63 | <0.5 |
| 2018KBS211 | | 0.04 | 0.34 | 15 | 0.15 | 2.02 | 77 | <0.5 |
| 2018KBS212 | | 0.04 | 0.26 | 9 | 0.22 | 1.22 | 113 | 0.6 |
| 2018KBS214 | | 0.04 | 0.22 | 9 | 0.11 | 1.22 | 58 | <0.5 |
| 2018KBS215 | | 0.11 | 0.26 | 23 | 0.17 | 1.57 | 94 | <0.5 |
| 2018KBS216 | | 0.06 | 0.24 | 14 | 0.15 | 1.09 | 79 | <0.5 |
| 2018KBS217 | | 0.04 | 0.17 | 9 | 0.11 | 1.43 | 70 | <0.5 |
| 2018KBS218 | | 0.07 | 0.23 | 38 | 0.14 | 1.14 | 24 | <0.5 |
| 2018KBS219 | | 0.04 | 0.15 | 9 | 0.15 | 0.85 | 27 | 0.6 |
| 2018KBS220 | | 0.04 | 0.14 | 10 | 0.13 | 0.76 | 28 | 0.6 |
| 2018KBS221 | | 0.05 | 0.19 | 16 | 0.16 | 0.83 | 74 | <0.5 |



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Page: 7 - A
 Total # Pages: 7 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

Project: 99421

CERTIFICATE OF ANALYSIS SD18197526

| Sample Description | Method Analyte Units LOD | WEI-21 Recvd Wt. kg | ME-MS41 Ag ppm | ME-MS41 Al % | ME-MS41 As ppm | ME-MS41 Au ppm | ME-MS41 B ppm | ME-MS41 Ba ppm | ME-MS41 Be ppm | ME-MS41 Bi ppm | ME-MS41 Ca % | ME-MS41 Cd ppm | ME-MS41 Ce ppm | ME-MS41 Co ppm | ME-MS41 Cr ppm | ME-MS41 Cs ppm |
|--------------------|-----------------------------------|---------------------------|----------------------|--------------------|----------------------|----------------------|---------------------|----------------------|----------------------|----------------------|--------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| | | 0.02 | 0.01 | 0.01 | 0.1 | 0.02 | 10 | 10 | 0.05 | 0.01 | 0.01 | 0.01 | 0.02 | 0.1 | 1 | 0.05 |
| 2018KBS222 | | 0.08 | 2.41 | 0.30 | 40.0 | <0.02 | 10 | 110 | 0.11 | 1.78 | 0.45 | 0.79 | 6.98 | 5.8 | 9 | 0.38 |
| 2018KBS223 | | 0.07 | 3.37 | 0.29 | 41.2 | 0.02 | 10 | 170 | 0.20 | 2.08 | 0.51 | 1.93 | 8.29 | 8.2 | 8 | 0.31 |
| 2018KBS224 | | 0.09 | 2.72 | 0.22 | 19.5 | <0.02 | <10 | 80 | 0.13 | 1.41 | 0.20 | 1.25 | 4.96 | 4.1 | 8 | 0.44 |



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Page: 7 - B
 Total # Pages: 7 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

Project: 99421

CERTIFICATE OF ANALYSIS SD18197526

| Sample Description | Method Analyte Units LOD | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | |
|--------------------|-----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|
| | | Cu | Fe | Ga | Ge | Hf | Hg | In | K | La | Li | Mg | Mn | Mo | Na | Nb |
| | | ppm | % | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm |
| | | 0.2 | 0.01 | 0.05 | 0.05 | 0.02 | 0.01 | 0.005 | 0.01 | 0.2 | 0.1 | 0.01 | 5 | 0.05 | 0.01 | 0.05 |
| 2018KBS222 | | 61.1 | 0.61 | 2.05 | 0.05 | <0.02 | 0.33 | 0.101 | 0.06 | 4.7 | 1.8 | 0.08 | 41 | 0.62 | <0.01 | 0.34 |
| 2018KBS223 | | 96.2 | 0.55 | 1.59 | 0.05 | <0.02 | 0.47 | 0.130 | 0.06 | 5.2 | 0.8 | 0.06 | 62 | 0.66 | <0.01 | 0.20 |
| 2018KBS224 | | 40.0 | 0.48 | 1.77 | <0.05 | <0.02 | 0.39 | 0.095 | 0.07 | 2.9 | 0.8 | 0.05 | 52 | 0.66 | <0.01 | 0.21 |



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Page: 7 - C
 Total # Pages: 7 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

Project: 99421

CERTIFICATE OF ANALYSIS SD18197526

| Sample Description | Method Analyte Units LOD | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | |
|--------------------|-----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| | | Ni | P | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti |
| | | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | | 0.2 | 10 | 0.2 | 0.1 | 0.001 | 0.01 | 0.05 | 0.1 | 0.2 | 0.2 | 0.2 | 0.01 | 0.01 | 0.2 | 0.005 |
| 2018KBS222 | | 58.9 | 510 | 90.1 | 3.8 | 0.003 | 0.08 | 2.00 | 0.7 | 2.7 | 2.9 | 30.0 | <0.01 | 0.10 | 0.2 | 0.018 |
| 2018KBS223 | | 88.7 | 590 | 105.0 | 3.1 | 0.003 | 0.12 | 1.76 | 0.6 | 3.0 | 2.7 | 32.6 | <0.01 | 0.11 | 0.2 | 0.011 |
| 2018KBS224 | | 35.6 | 760 | 85.8 | 5.7 | 0.001 | 0.09 | 1.23 | 0.4 | 2.5 | 2.8 | 18.9 | <0.01 | 0.07 | <0.2 | 0.012 |



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Page: 7 - D
 Total # Pages: 7 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

Project: 99421

CERTIFICATE OF ANALYSIS SD18197526

| Sample Description | Method Analyte Units LOD | ME-MS41 Ti ppm 0.02 | ME-MS41 U ppm 0.05 | ME-MS41 V ppm 1 | ME-MS41 W ppm 0.05 | ME-MS41 Y ppm 0.05 | ME-MS41 Zn ppm 2 | ME-MS41 Zr ppm 0.5 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|--------------------------|-----------------------------|-----------------------------|---------------------------|-----------------------------|
| 2018KBS222 | | 0.04 | 0.21 | 14 | 0.15 | 0.90 | 70 | <0.5 |
| 2018KBS223 | | 0.09 | 0.24 | 9 | 0.16 | 1.34 | 96 | <0.5 |
| 2018KBS224 | | 0.04 | 0.18 | 13 | 0.15 | 0.71 | 76 | <0.5 |



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 31-AUG-2018
Account: TTB

Project: 99421

CERTIFICATE OF ANALYSIS SD18197526

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

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

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.
LOG-22 SCR-41 WEI-21

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



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Page: 1
 Total # Pages: 3 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

QC CERTIFICATE SD18197526

Project: 99421

This report is for 203 Soil samples submitted to our lab in Sudbury, ON, Canada on 10-AUG-2018.

The following have access to data associated with this certificate:

| | | |
|-----------|--|--|
| K. RAFFLE | | |
|-----------|--|--|

| SAMPLE PREPARATION | |
|--------------------|--------------------------------|
| ALS CODE | DESCRIPTION |
| WEI-21 | Received Sample Weight |
| LOG-22 | Sample login - Rcd w/o BarCode |
| SCR-41 | Screen to -180um and save both |

| ANALYTICAL PROCEDURES | |
|-----------------------|-------------------------------|
| ALS CODE | DESCRIPTION |
| ME-MS41 | Ultra Trace Aqua Regia ICP-MS |

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
 Total # Pages: 3 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

Project: 99421

QC CERTIFICATE OF ANALYSIS SD18197526

| Sample Description | Method Analyte Units LOD | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | |
|----------------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| | | Ag ppm | Al % | As ppm | Au ppm | B ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Ce ppm | Co ppm | Cr ppm | Cs ppm | Cu ppm |
| STANDARDS | | | | | | | | | | | | | | | | |
| MRGeo08 | | 4.39 | 2.57 | 35.1 | <0.02 | <10 | 430 | 0.84 | 0.68 | 1.05 | 2.32 | 75.4 | 19.2 | 87 | 11.10 | 610 |
| MRGeo08 | | 4.41 | 2.56 | 34.6 | <0.02 | <10 | 440 | 0.82 | 0.69 | 1.08 | 2.21 | 73.7 | 18.9 | 89 | 10.80 | 622 |
| MRGeo08 | | 4.35 | 2.60 | 34.2 | <0.02 | <10 | 440 | 0.87 | 0.68 | 1.09 | 2.17 | 73.8 | 18.9 | 90 | 10.50 | 618 |
| MRGeo08 | | 4.24 | 2.57 | 31.7 | <0.02 | <10 | 420 | 0.87 | 0.65 | 1.04 | 2.21 | 72.2 | 17.9 | 85 | 10.50 | 619 |
| Target Range - Lower Bound | | 4.00 | 2.44 | 29.6 | <0.02 | <10 | 370 | 0.67 | 0.60 | 1.00 | 2.01 | 66.2 | 17.0 | 81 | 9.40 | 587 |
| Upper Bound | | 4.92 | 3.00 | 36.4 | 0.04 | 20 | 530 | 0.95 | 0.76 | 1.24 | 2.47 | 81.0 | 21.0 | 102 | 11.60 | 675 |
| OGGeo08 | | 20.7 | 2.15 | 122.5 | 0.07 | <10 | 50 | 0.74 | 10.50 | 0.86 | 19.45 | 58.6 | 94.5 | 79 | 10.40 | 8370 |
| OGGeo08 | | 18.75 | 2.14 | 119.5 | 0.07 | <10 | 60 | 0.73 | 10.30 | 0.88 | 18.45 | 61.7 | 97.5 | 77 | 8.93 | 8130 |
| OGGeo08 | | 21.1 | 2.14 | 123.0 | 0.08 | <10 | 60 | 0.78 | 10.85 | 0.86 | 19.20 | 58.3 | 93.1 | 77 | 9.51 | 8010 |
| OGGeo08 | | 21.3 | 2.13 | 123.5 | 0.07 | <10 | 50 | 0.79 | 10.65 | 0.88 | 19.50 | 60.6 | 94.8 | 79 | 10.10 | 8270 |
| OGGeo08 | | 19.40 | 2.34 | 124.0 | 0.07 | 10 | 60 | 0.77 | 11.15 | 0.95 | 20.2 | 63.3 | 98.1 | 85 | 10.20 | 8620 |
| Target Range - Lower Bound | | 18.15 | 2.05 | 107.0 | 0.03 | <10 | 60 | 0.61 | 9.44 | 0.82 | 16.75 | 56.7 | 87.2 | 75 | 8.68 | 7800 |
| Upper Bound | | 22.2 | 2.53 | 131.0 | 0.11 | 30 | 110 | 0.89 | 11.55 | 1.02 | 20.5 | 69.3 | 107.0 | 93 | 10.70 | 8980 |
| OREAS 905 | | 0.51 | 0.75 | 33.1 | 0.39 | <10 | 230 | 0.88 | 5.76 | 0.32 | 0.35 | 78.9 | 13.7 | 16 | 1.19 | 1490 |
| OREAS 905 | | 0.51 | 0.74 | 33.7 | 0.39 | <10 | 230 | 0.99 | 5.91 | 0.32 | 0.34 | 76.4 | 13.9 | 17 | 1.12 | 1480 |
| OREAS 905 | | 0.50 | 0.80 | 32.9 | 0.39 | <10 | 240 | 0.89 | 5.76 | 0.33 | 0.33 | 77.8 | 13.5 | 17 | 1.20 | 1515 |
| OREAS 905 | | 0.50 | 0.77 | 31.4 | 0.39 | <10 | 230 | 0.96 | 5.61 | 0.33 | 0.33 | 77.7 | 12.8 | 16 | 1.22 | 1520 |
| Target Range - Lower Bound | | 0.45 | 0.73 | 28.4 | 0.33 | <10 | 200 | 0.78 | 5.16 | 0.29 | 0.30 | 69.7 | 12.4 | 15 | 1.05 | 1450 |
| Upper Bound | | 0.58 | 0.91 | 35.0 | 0.45 | 20 | 300 | 1.08 | 6.32 | 0.38 | 0.38 | 85.3 | 15.4 | 20 | 1.39 | 1670 |
| OREAS 920 | | 0.09 | 2.36 | 4.5 | <0.02 | <10 | 80 | 0.68 | 0.67 | 0.31 | 0.07 | 74.4 | 15.0 | 40 | 1.83 | 111.0 |
| OREAS 920 | | 0.09 | 2.40 | 4.9 | <0.02 | <10 | 80 | 0.77 | 0.55 | 0.32 | 0.06 | 73.4 | 14.6 | 44 | 2.04 | 108.5 |
| OREAS 920 | | 0.10 | 2.24 | 4.4 | <0.02 | <10 | 70 | 0.68 | 0.69 | 0.30 | 0.07 | 71.8 | 14.4 | 40 | 1.85 | 111.0 |
| OREAS 920 | | 0.10 | 2.47 | 5.1 | <0.02 | <10 | 80 | 0.71 | 1.11 | 0.33 | 0.07 | 74.1 | 13.7 | 43 | 1.85 | 112.0 |
| Target Range - Lower Bound | | 0.07 | 2.18 | 4.2 | <0.02 | <10 | 50 | 0.59 | 0.60 | 0.28 | 0.04 | 64.8 | 13.4 | 37 | 1.84 | 102.0 |
| Upper Bound | | 0.12 | 2.68 | 5.3 | 0.04 | 20 | 110 | 0.87 | 0.76 | 0.37 | 0.08 | 79.2 | 16.6 | 48 | 2.36 | 118.0 |
| BLANKS | | | | | | | | | | | | | | | | |
| BLANK | | <0.01 | <0.01 | <0.1 | <0.02 | <10 | <10 | <0.05 | 0.01 | <0.01 | <0.01 | <0.02 | <0.1 | <1 | <0.05 | 0.4 |
| BLANK | | <0.01 | <0.01 | <0.1 | <0.02 | <10 | <10 | <0.05 | 0.01 | <0.01 | 0.01 | <0.02 | <0.1 | <1 | <0.05 | 0.2 |
| BLANK | | <0.01 | <0.01 | <0.1 | <0.02 | <10 | <10 | <0.05 | 0.01 | <0.01 | 0.01 | <0.02 | <0.1 | <1 | <0.05 | <0.2 |
| BLANK | | <0.01 | <0.01 | <0.1 | <0.02 | <10 | <10 | <0.05 | 0.01 | <0.01 | <0.01 | <0.02 | <0.1 | <1 | <0.05 | <0.2 |
| BLANK | | <0.01 | <0.01 | <0.1 | <0.02 | <10 | <10 | <0.05 | <0.01 | <0.01 | <0.01 | <0.02 | <0.1 | <1 | <0.05 | 0.2 |
| BLANK | | <0.01 | <0.01 | <0.1 | <0.02 | <10 | <10 | <0.05 | <0.01 | <0.01 | <0.01 | <0.02 | <0.1 | <1 | <0.05 | <0.2 |
| BLANK | | <0.01 | <0.01 | <0.1 | <0.02 | <10 | <10 | <0.05 | <0.01 | <0.01 | <0.01 | <0.02 | <0.1 | <1 | <0.05 | <0.2 |
| BLANK | | <0.01 | <0.01 | 0.2 | <0.02 | <10 | <10 | <0.05 | <0.01 | <0.01 | <0.01 | <0.02 | <0.1 | <1 | <0.05 | <0.2 |
| BLANK | | <0.01 | <0.01 | <0.1 | <0.02 | <10 | <10 | <0.05 | 0.01 | <0.01 | <0.01 | <0.02 | <0.1 | <1 | <0.05 | <0.2 |
| Target Range - Lower Bound | | <0.01 | <0.01 | <0.1 | <0.02 | <10 | <10 | <0.05 | <0.01 | <0.01 | <0.01 | <0.02 | <0.1 | <1 | <0.05 | <0.2 |
| Upper Bound | | 0.02 | 0.02 | 0.2 | 0.04 | 20 | 20 | 0.10 | 0.02 | 0.02 | 0.02 | 0.04 | 0.2 | 2 | 0.10 | 0.4 |



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Page: 2 - B
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QC CERTIFICATE OF ANALYSIS SD18197526

| Sample Description | Method | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | |
|----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|
| | Analyte | Fe | Ga | Ge | Hf | Hg | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni |
| Units | | % | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm |
| LOD | | 0.01 | 0.05 | 0.05 | 0.02 | 0.01 | 0.005 | 0.01 | 0.2 | 0.1 | 0.01 | 5 | 0.05 | 0.01 | 0.05 | 0.2 |
| STANDARDS | | | | | | | | | | | | | | | | |
| MRGeo08 | | 3.52 | 9.54 | 0.21 | 0.66 | 0.06 | 0.154 | 1.25 | 37.8 | 34.0 | 1.10 | 396 | 14.15 | 0.34 | 0.92 | 688 |
| MRGeo08 | | 3.52 | 9.92 | 0.14 | 0.70 | 0.06 | 0.157 | 1.25 | 37.5 | 32.0 | 1.12 | 405 | 13.75 | 0.32 | 0.68 | 694 |
| MRGeo08 | | 3.52 | 9.23 | 0.13 | 0.67 | 0.06 | 0.148 | 1.25 | 36.5 | 36.0 | 1.13 | 406 | 13.85 | 0.33 | 0.64 | 695 |
| MRGeo08 | | 3.48 | 9.04 | 0.17 | 0.65 | 0.06 | 0.154 | 1.22 | 36.4 | 31.3 | 1.08 | 388 | 13.80 | 0.33 | 0.66 | 675 |
| Target Range - Lower Bound | | 3.22 | 8.73 | 0.07 | 0.64 | 0.04 | 0.137 | 1.12 | 33.2 | 29.6 | 1.03 | 378 | 13.10 | 0.30 | 0.79 | 622 |
| Upper Bound | | 3.96 | 10.80 | 0.29 | 0.83 | 0.10 | 0.179 | 1.40 | 41.0 | 36.4 | 1.29 | 473 | 16.10 | 0.39 | 1.09 | 760 |
| OGGeo08 | | 5.06 | 7.84 | 0.21 | 0.82 | 0.49 | 1.415 | 1.05 | 28.2 | 29.4 | 0.92 | 374 | 859 | 0.29 | 0.93 | 8790 |
| OGGeo08 | | 4.92 | 8.32 | 0.14 | 0.90 | 0.50 | 1.340 | 1.04 | 27.3 | 29.6 | 0.91 | 373 | 852 | 0.30 | 0.95 | 8610 |
| OGGeo08 | | 4.95 | 8.12 | 0.22 | 0.73 | 0.49 | 1.400 | 1.03 | 28.4 | 30.1 | 0.90 | 365 | 836 | 0.29 | 0.99 | 8560 |
| OGGeo08 | | 4.94 | 8.02 | 0.13 | 0.73 | 0.48 | 1.410 | 1.03 | 29.0 | 27.3 | 0.92 | 374 | 862 | 0.28 | 0.91 | 8670 |
| OGGeo08 | | 5.19 | 8.19 | 0.16 | 0.87 | 0.49 | 1.450 | 1.09 | 30.2 | 28.8 | 0.99 | 406 | 918 | 0.31 | 0.92 | 9040 |
| Target Range - Lower Bound | | 4.51 | 7.69 | 0.21 | 0.72 | 0.41 | 1.335 | 0.94 | 26.7 | 28.4 | 0.84 | 350 | 811 | 0.26 | 0.97 | 7760 |
| Upper Bound | | 5.53 | 9.51 | 0.45 | 0.92 | 0.57 | 1.645 | 1.18 | 33.1 | 35.0 | 1.05 | 438 | 991 | 0.34 | 1.29 | 9480 |
| OREAS 905 | | 3.31 | 5.92 | 0.15 | 1.14 | 0.02 | 0.585 | 0.30 | 39.8 | 4.3 | 0.14 | 329 | 2.75 | 0.10 | 0.29 | 8.5 |
| OREAS 905 | | 3.28 | 6.06 | 0.09 | 1.07 | 0.01 | 0.577 | 0.29 | 39.1 | 4.8 | 0.14 | 324 | 2.92 | 0.08 | 0.25 | 9.8 |
| OREAS 905 | | 3.36 | 5.96 | 0.08 | 1.10 | 0.02 | 0.569 | 0.32 | 39.1 | 4.4 | 0.14 | 335 | 2.78 | 0.08 | 0.28 | 8.4 |
| OREAS 905 | | 3.30 | 5.83 | 0.11 | 1.12 | 0.01 | 0.571 | 0.30 | 39.8 | 4.5 | 0.14 | 324 | 2.84 | 0.08 | 0.30 | 8.2 |
| Target Range - Lower Bound | | 3.14 | 5.45 | <0.05 | 1.02 | <0.01 | 0.517 | 0.28 | 34.7 | 4.0 | 0.13 | 310 | 2.65 | 0.07 | 0.19 | 7.8 |
| Upper Bound | | 3.86 | 6.77 | 0.22 | 1.29 | 0.04 | 0.643 | 0.36 | 42.9 | 5.2 | 0.19 | 390 | 3.35 | 0.12 | 0.43 | 10.0 |
| OREAS 920 | | 3.56 | 6.65 | 0.09 | 0.39 | <0.01 | 0.031 | 0.41 | 34.9 | 20.3 | 1.04 | 497 | 0.32 | 0.03 | 0.27 | 39.1 |
| OREAS 920 | | 3.60 | 6.59 | 0.11 | 0.49 | 0.01 | 0.033 | 0.44 | 37.1 | 21.0 | 1.04 | 498 | 0.36 | 0.02 | 0.36 | 39.4 |
| OREAS 920 | | 3.42 | 6.32 | 0.06 | 0.48 | <0.01 | 0.031 | 0.39 | 36.0 | 19.2 | 1.01 | 486 | 0.35 | 0.02 | 0.29 | 37.9 |
| OREAS 920 | | 3.63 | 6.19 | 0.08 | 0.39 | <0.01 | 0.029 | 0.42 | 36.7 | 20.2 | 1.10 | 528 | 0.34 | 0.02 | 0.24 | 36.0 |
| Target Range - Lower Bound | | 3.26 | 6.12 | <0.05 | 0.48 | <0.01 | 0.019 | 0.37 | 33.3 | 19.0 | 0.93 | 454 | 0.26 | <0.01 | 0.22 | 34.4 |
| Upper Bound | | 4.00 | 7.60 | 0.22 | 0.63 | 0.02 | 0.043 | 0.47 | 41.1 | 23.4 | 1.15 | 566 | 0.50 | 0.02 | 0.46 | 42.4 |
| BLANKS | | | | | | | | | | | | | | | | |
| BLANK | | <0.01 | <0.05 | <0.05 | <0.02 | <0.01 | <0.005 | <0.01 | <0.2 | 0.1 | <0.01 | <5 | <0.05 | <0.01 | <0.05 | <0.2 |
| BLANK | | <0.01 | <0.05 | 0.05 | <0.02 | <0.01 | <0.005 | <0.01 | <0.2 | <0.1 | <0.01 | <5 | <0.05 | 0.01 | <0.05 | <0.2 |
| BLANK | | <0.01 | <0.05 | <0.05 | <0.02 | <0.01 | <0.005 | <0.01 | <0.2 | <0.1 | <0.01 | <5 | <0.05 | 0.01 | <0.05 | <0.2 |
| BLANK | | <0.01 | <0.05 | <0.05 | <0.02 | <0.01 | <0.005 | <0.01 | <0.2 | 0.1 | <0.01 | <5 | <0.05 | <0.01 | <0.05 | <0.2 |
| BLANK | | <0.01 | <0.05 | <0.05 | <0.02 | <0.01 | <0.005 | <0.01 | <0.2 | 0.1 | <0.01 | <5 | <0.05 | <0.01 | <0.05 | <0.2 |
| BLANK | | <0.01 | <0.05 | <0.05 | <0.02 | <0.01 | <0.005 | <0.01 | <0.2 | 0.1 | <0.01 | <5 | <0.05 | <0.01 | <0.05 | <0.2 |
| BLANK | | <0.01 | <0.05 | 0.05 | <0.02 | <0.01 | <0.005 | <0.01 | <0.2 | <0.1 | <0.01 | <5 | <0.05 | <0.01 | <0.05 | <0.2 |
| BLANK | | <0.01 | <0.05 | <0.05 | <0.02 | <0.01 | <0.005 | <0.01 | <0.2 | <0.1 | <0.01 | <5 | <0.05 | <0.01 | <0.05 | <0.2 |
| Target Range - Lower Bound | | <0.01 | <0.05 | <0.05 | <0.02 | <0.01 | <0.005 | <0.01 | <0.2 | <0.1 | <0.01 | <5 | <0.05 | <0.01 | <0.05 | <0.2 |
| Upper Bound | | 0.02 | 0.10 | 0.10 | 0.04 | 0.02 | 0.010 | 0.02 | 0.4 | 0.2 | 0.02 | 10 | 0.10 | 0.02 | 0.10 | 0.4 |



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Page: 2 - C
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QC CERTIFICATE OF ANALYSIS SD18197526

| Sample Description | Method Analyte Units LOD | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | |
|----------------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| | | P | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl |
| | | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm |
| | | 10 | 0.2 | 0.1 | 0.001 | 0.01 | 0.05 | 0.1 | 0.2 | 0.2 | 0.2 | 0.01 | 0.01 | 0.2 | 0.005 | 0.02 |
| STANDARDS | | | | | | | | | | | | | | | | |
| MRGeo08 | | 960 | 1060 | 145.0 | 0.008 | 0.30 | 2.94 | 7.4 | 1.0 | 3.4 | 81.2 | 0.01 | 0.02 | 22.0 | 0.357 | 0.83 |
| MRGeo08 | | 990 | 1075 | 142.0 | 0.008 | 0.30 | 2.89 | 7.4 | 0.8 | 3.3 | 80.8 | 0.01 | 0.02 | 21.2 | 0.363 | 0.79 |
| MRGeo08 | | 990 | 1075 | 142.0 | 0.006 | 0.30 | 2.83 | 7.5 | 0.7 | 3.2 | 80.4 | 0.01 | 0.03 | 21.8 | 0.371 | 0.80 |
| MRGeo08 | | 980 | 1015 | 137.0 | 0.006 | 0.31 | 2.83 | 6.8 | 1.2 | 3.2 | 80.9 | 0.01 | 0.02 | 20.5 | 0.358 | 0.77 |
| Target Range - Lower Bound | | 900 | 959 | 132.0 | 0.006 | 0.27 | 2.80 | 6.7 | 0.6 | 2.8 | 72.1 | <0.01 | <0.01 | 19.1 | 0.338 | 0.64 |
| Upper Bound | | 1130 | 1175 | 162.0 | 0.010 | 0.35 | 3.90 | 8.4 | 1.5 | 4.0 | 88.5 | 0.03 | 0.04 | 23.7 | 0.424 | 0.92 |
| OGGeo08 | | 770 | 7050 | 119.5 | 1.325 | 2.68 | 17.85 | 6.0 | 10.7 | 13.1 | 63.0 | 0.01 | 0.15 | 15.2 | 0.307 | 1.26 |
| OGGeo08 | | 760 | 7080 | 115.5 | 1.350 | 2.65 | 18.25 | 6.3 | 9.9 | 12.3 | 62.5 | <0.01 | 0.16 | 15.9 | 0.295 | 1.40 |
| OGGeo08 | | 750 | 6850 | 118.5 | 1.360 | 2.60 | 18.50 | 6.0 | 10.1 | 12.8 | 63.8 | <0.01 | 0.14 | 15.9 | 0.297 | 1.32 |
| OGGeo08 | | 760 | 7130 | 119.5 | 1.390 | 2.67 | 19.05 | 5.8 | 10.6 | 12.8 | 63.4 | <0.01 | 0.15 | 16.4 | 0.304 | 1.27 |
| OGGeo08 | | 810 | 7310 | 120.5 | 1.410 | 2.92 | 18.40 | 5.8 | 10.1 | 13.4 | 66.6 | 0.01 | 0.15 | 16.7 | 0.318 | 1.37 |
| Target Range - Lower Bound | | 700 | 6520 | 109.5 | 1.295 | 2.51 | 17.70 | 5.6 | 9.7 | 12.0 | 59.6 | <0.01 | 0.14 | 14.8 | 0.279 | 1.14 |
| Upper Bound | | 880 | 7970 | 134.5 | 1.585 | 3.09 | 24.1 | 7.0 | 12.3 | 15.1 | 73.2 | 0.03 | 0.20 | 18.6 | 0.353 | 1.58 |
| OREAS 905 | | 230 | 16.0 | 18.0 | <0.001 | 0.07 | 0.95 | 1.7 | 2.4 | 1.2 | 12.5 | <0.01 | 0.05 | 8.5 | 0.019 | 0.11 |
| OREAS 905 | | 220 | 17.0 | 17.1 | <0.001 | 0.06 | 0.94 | 1.6 | 2.2 | 1.2 | 12.4 | <0.01 | 0.07 | 8.9 | 0.018 | 0.11 |
| OREAS 905 | | 230 | 16.1 | 18.3 | <0.001 | 0.07 | 0.93 | 1.6 | 2.4 | 1.2 | 12.3 | <0.01 | 0.07 | 8.9 | 0.020 | 0.10 |
| OREAS 905 | | 240 | 16.3 | 17.9 | <0.001 | 0.06 | 0.95 | 1.6 | 2.3 | 1.2 | 13.2 | <0.01 | 0.05 | 8.3 | 0.020 | 0.11 |
| Target Range - Lower Bound | | | 14.4 | 16.3 | <0.001 | 0.04 | 0.83 | 1.5 | 1.8 | 0.8 | 10.9 | <0.01 | 0.04 | 7.4 | 0.008 | 0.06 |
| Upper Bound | | | 18.0 | 20.1 | 0.002 | 0.09 | 1.23 | 2.0 | 2.8 | 1.7 | 13.7 | 0.02 | 0.09 | 9.4 | 0.030 | 0.16 |
| OREAS 920 | | 700 | 20.4 | 23.1 | <0.001 | 0.03 | 0.51 | 2.9 | 0.2 | 1.0 | 16.6 | 0.01 | 0.02 | 15.5 | 0.115 | 0.14 |
| OREAS 920 | | 690 | 20.4 | 25.2 | 0.001 | 0.02 | 0.49 | 2.9 | 0.4 | 1.1 | 16.9 | 0.01 | 0.02 | 15.2 | 0.138 | 0.16 |
| OREAS 920 | | 670 | 20.2 | 22.6 | <0.001 | 0.03 | 0.50 | 2.6 | 0.4 | 1.0 | 16.7 | 0.01 | 0.02 | 15.1 | 0.108 | 0.14 |
| OREAS 920 | | 730 | 20.1 | 22.6 | <0.001 | 0.03 | 0.52 | 2.6 | 0.4 | 1.0 | 16.5 | 0.01 | 0.02 | 15.2 | 0.122 | 0.15 |
| Target Range - Lower Bound | | | 19.2 | 22.2 | <0.001 | <0.01 | 0.45 | 2.5 | <0.2 | 0.6 | 15.0 | <0.01 | <0.01 | 13.6 | 0.106 | 0.09 |
| Upper Bound | | | 23.9 | 27.4 | 0.002 | 0.05 | 0.77 | 3.3 | 0.7 | 1.6 | 18.8 | 0.02 | 0.04 | 17.0 | 0.140 | 0.20 |
| BLANKS | | | | | | | | | | | | | | | | |
| BLANK | | <10 | <0.2 | <0.1 | <0.001 | <0.01 | <0.05 | <0.1 | <0.2 | <0.2 | <0.2 | <0.01 | <0.01 | <0.2 | <0.005 | <0.02 |
| BLANK | | <10 | <0.2 | <0.1 | <0.001 | <0.01 | <0.05 | <0.1 | <0.2 | <0.2 | <0.2 | <0.01 | <0.01 | <0.2 | <0.005 | <0.02 |
| BLANK | | <10 | <0.2 | <0.1 | <0.001 | <0.01 | <0.05 | <0.1 | <0.2 | <0.2 | <0.2 | <0.01 | <0.01 | <0.2 | <0.005 | <0.02 |
| BLANK | | <10 | <0.2 | <0.1 | <0.001 | <0.01 | <0.05 | <0.1 | <0.2 | <0.2 | <0.2 | <0.01 | <0.01 | <0.2 | <0.005 | <0.02 |
| BLANK | | <10 | <0.2 | <0.1 | <0.001 | <0.01 | <0.05 | <0.1 | <0.2 | <0.2 | <0.2 | <0.01 | <0.01 | <0.2 | <0.005 | <0.02 |
| BLANK | | <10 | <0.2 | <0.1 | <0.001 | <0.01 | <0.05 | <0.1 | <0.2 | <0.2 | <0.2 | <0.01 | <0.01 | <0.2 | <0.005 | <0.02 |
| BLANK | | <10 | <0.2 | <0.1 | <0.001 | <0.01 | <0.05 | <0.1 | <0.2 | <0.2 | <0.2 | <0.01 | <0.01 | <0.2 | <0.005 | <0.02 |
| BLANK | | <10 | <0.2 | <0.1 | <0.001 | <0.01 | <0.05 | <0.1 | <0.2 | <0.2 | <0.2 | <0.01 | <0.01 | <0.2 | <0.005 | <0.02 |
| BLANK | | <10 | <0.2 | <0.1 | <0.001 | <0.01 | <0.05 | <0.1 | <0.2 | <0.2 | <0.2 | <0.01 | <0.01 | <0.2 | <0.005 | <0.02 |
| Target Range - Lower Bound | | <10 | <0.2 | <0.1 | <0.001 | <0.01 | <0.05 | <0.1 | <0.2 | <0.2 | <0.2 | <0.01 | <0.01 | <0.2 | <0.005 | <0.02 |
| Upper Bound | | 20 | 0.4 | 0.2 | 0.002 | 0.02 | 0.10 | 0.2 | 0.4 | 0.4 | 0.4 | 0.02 | 0.02 | 0.4 | 0.010 | 0.04 |



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Page: 2 - D
 Total # Pages: 3 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

Project: 99421

QC CERTIFICATE OF ANALYSIS SD18197526

| Sample Description | Method Analyte Units LOD | ME-MS41 U ppm | ME-MS41 V ppm | ME-MS41 W ppm | ME-MS41 Y ppm | ME-MS41 Zn ppm | ME-MS41 Zr ppm |
|----------------------------|--------------------------|---------------|---------------|---------------|---------------|----------------|----------------|
| | | 0.05 | 1 | 0.05 | 0.05 | 2 | 0.5 |
| STANDARDS | | | | | | | |
| MGeo08 | | 5.47 | 96 | 2.58 | 19.70 | 747 | 22.0 |
| MGeo08 | | 5.47 | 98 | 2.47 | 19.65 | 771 | 22.0 |
| MGeo08 | | 5.61 | 98 | 2.58 | 19.10 | 771 | 21.5 |
| MGeo08 | | 5.21 | 95 | 2.60 | 18.80 | 758 | 20.5 |
| Target Range - Lower Bound | | 4.93 | 90 | 2.44 | 17.50 | 708 | 18.1 |
| Upper Bound | | 6.13 | 112 | 3.42 | 21.5 | 870 | 25.7 |
| OGGeo08 | | 4.68 | 77 | 2.91 | 16.10 | 6750 | 23.1 |
| OGGeo08 | | 4.97 | 76 | 2.89 | 16.35 | 6870 | 24.7 |
| OGGeo08 | | 4.46 | 76 | 2.82 | 16.25 | 6560 | 24.0 |
| OGGeo08 | | 4.54 | 77 | 2.78 | 16.45 | 6790 | 23.4 |
| OGGeo08 | | 4.90 | 83 | 2.77 | 17.00 | 7340 | 25.7 |
| Target Range - Lower Bound | | 4.45 | 70 | 2.58 | 15.35 | 6500 | 19.5 |
| Upper Bound | | 5.55 | 88 | 3.60 | 18.85 | 7950 | 27.5 |
| OREAS 905 | | 2.23 | 5 | 0.52 | 7.30 | 61 | 44.7 |
| OREAS 905 | | 2.26 | 5 | 0.47 | 7.07 | 63 | 43.4 |
| OREAS 905 | | 2.31 | 5 | 0.49 | 7.27 | 64 | 43.8 |
| OREAS 905 | | 2.27 | 5 | 0.58 | 6.77 | 64 | 42.8 |
| Target Range - Lower Bound | | 1.92 | 4 | 0.41 | 6.32 | 56 | 39.9 |
| Upper Bound | | 2.46 | 8 | 0.73 | 7.84 | 72 | 55.1 |
| OREAS 920 | | 2.18 | 24 | 0.46 | 17.90 | 102 | 15.2 |
| OREAS 920 | | 1.95 | 25 | 0.41 | 18.50 | 101 | 21.3 |
| OREAS 920 | | 1.89 | 23 | 0.44 | 16.90 | 99 | 20.0 |
| OREAS 920 | | 2.01 | 26 | 0.40 | 17.00 | 113 | 15.0 |
| Target Range - Lower Bound | | 1.89 | 21 | 0.31 | 15.80 | 93 | 17.6 |
| Upper Bound | | 2.42 | 28 | 0.61 | 19.40 | 119 | 25.0 |
| BLANKS | | | | | | | |
| BLANK | | <0.05 | <1 | <0.05 | <0.05 | <2 | <0.5 |
| BLANK | | <0.05 | <1 | <0.05 | <0.05 | <2 | <0.5 |
| BLANK | | <0.05 | <1 | <0.05 | <0.05 | <2 | <0.5 |
| BLANK | | <0.05 | <1 | <0.05 | <0.05 | <2 | <0.5 |
| BLANK | | <0.05 | <1 | <0.05 | <0.05 | <2 | <0.5 |
| BLANK | | <0.05 | <1 | <0.05 | <0.05 | <2 | <0.5 |
| BLANK | | <0.05 | <1 | <0.05 | <0.05 | <2 | <0.5 |
| BLANK | | <0.05 | <1 | <0.05 | <0.05 | <2 | <0.5 |
| BLANK | | <0.05 | <1 | <0.05 | <0.05 | <2 | <0.5 |
| Target Range - Lower Bound | | <0.05 | <1 | <0.05 | <0.05 | <2 | <0.5 |
| Upper Bound | | 0.10 | 2 | 0.10 | 0.10 | 4 | 1.0 |



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Page: 3 - A
 Total # Pages: 3 (A - D)
 Plus Appendix Pages
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QC CERTIFICATE OF ANALYSIS SD18197526

| Sample Description | Method Analyte Units LOD | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | |
|----------------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| | | Ag ppm | Al % | As ppm | Au ppm | B ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Ce ppm | Co ppm | Cr ppm | Cs ppm | Cu ppm |
| | | 0.01 | 0.01 | 0.1 | 0.02 | 10 | 10 | 0.05 | 0.01 | 0.01 | 0.01 | 0.02 | 0.1 | 1 | 0.05 | 0.2 |
| DUPLICATES | | | | | | | | | | | | | | | | |
| 2018KNS025 | | 0.70 | 0.25 | 9.1 | <0.02 | <10 | 90 | 0.12 | 0.83 | 0.20 | 0.71 | 7.95 | 2.5 | 7 | 0.20 | 22.5 |
| DUP | | 0.74 | 0.25 | 10.1 | <0.02 | <10 | 90 | 0.13 | 0.88 | 0.21 | 0.73 | 8.71 | 2.7 | 7 | 0.22 | 23.8 |
| Target Range - Lower Bound | | 0.67 | 0.23 | 9.0 | <0.02 | <10 | 70 | 0.07 | 0.80 | 0.18 | 0.67 | 7.89 | 2.4 | 6 | 0.15 | 22.1 |
| Upper Bound | | 0.77 | 0.27 | 10.2 | 0.04 | 20 | 110 | 0.18 | 0.91 | 0.23 | 0.77 | 8.77 | 2.8 | 8 | 0.27 | 24.2 |
| 2018KTS007 | | 0.47 | 0.35 | 10.7 | <0.02 | <10 | 30 | 0.08 | 0.23 | 0.23 | 0.18 | 5.71 | 2.2 | 8 | 0.20 | 10.9 |
| DUP | | 0.49 | 0.36 | 11.0 | <0.02 | <10 | 30 | 0.08 | 0.25 | 0.24 | 0.18 | 6.05 | 2.3 | 8 | 0.21 | 11.5 |
| Target Range - Lower Bound | | 0.45 | 0.33 | 10.2 | <0.02 | <10 | 20 | <0.05 | 0.22 | 0.21 | 0.16 | 5.57 | 2.0 | 7 | 0.14 | 10.6 |
| Upper Bound | | 0.51 | 0.38 | 11.5 | 0.04 | 20 | 40 | 0.10 | 0.26 | 0.26 | 0.20 | 6.19 | 2.5 | 9 | 0.27 | 11.8 |
| 2018KTS045 | | 0.39 | 1.27 | 14.6 | <0.02 | <10 | 60 | 0.32 | 0.32 | 0.23 | 0.26 | 14.40 | 8.2 | 30 | 0.81 | 14.4 |
| DUP | | 0.39 | 1.26 | 14.1 | <0.02 | <10 | 60 | 0.25 | 0.31 | 0.24 | 0.26 | 14.90 | 8.0 | 30 | 0.83 | 14.4 |
| Target Range - Lower Bound | | 0.36 | 1.19 | 13.5 | <0.02 | <10 | 50 | 0.22 | 0.29 | 0.21 | 0.24 | 13.90 | 7.6 | 28 | 0.73 | 13.7 |
| Upper Bound | | 0.42 | 1.34 | 15.2 | 0.04 | 20 | 70 | 0.35 | 0.34 | 0.26 | 0.28 | 15.40 | 8.6 | 33 | 0.91 | 15.1 |
| 2018KTS083 | | 2.79 | 0.27 | 11.5 | <0.02 | <10 | 160 | 0.19 | 1.43 | 0.28 | 1.50 | 6.89 | 6.0 | 4 | 0.27 | 41.0 |
| DUP | | 2.74 | 0.28 | 11.1 | <0.02 | <10 | 160 | 0.16 | 1.43 | 0.28 | 1.45 | 6.90 | 6.0 | 4 | 0.28 | 41.8 |
| Target Range - Lower Bound | | 2.62 | 0.25 | 10.6 | <0.02 | <10 | 140 | 0.12 | 1.35 | 0.26 | 1.39 | 6.53 | 5.6 | 3 | 0.21 | 39.8 |
| Upper Bound | | 2.91 | 0.30 | 12.0 | 0.04 | 20 | 180 | 0.23 | 1.51 | 0.30 | 1.56 | 7.26 | 6.4 | 5 | 0.34 | 43.0 |
| 2018KTS106 | | 0.66 | 0.31 | 26.0 | <0.02 | <10 | 20 | 0.14 | 0.77 | 1.04 | 0.63 | 14.00 | 3.3 | 13 | 0.24 | 36.1 |
| DUP | | 0.66 | 0.31 | 26.0 | <0.02 | <10 | 20 | 0.14 | 0.78 | 1.06 | 0.67 | 14.10 | 3.3 | 13 | 0.25 | 35.7 |
| Target Range - Lower Bound | | 0.62 | 0.28 | 24.6 | <0.02 | <10 | <10 | 0.08 | 0.73 | 0.99 | 0.61 | 13.35 | 3.0 | 11 | 0.18 | 34.4 |
| Upper Bound | | 0.70 | 0.34 | 27.4 | 0.04 | 20 | 30 | 0.20 | 0.82 | 1.11 | 0.69 | 14.75 | 3.6 | 15 | 0.31 | 37.4 |
| 2018KBS187 | | 0.87 | 0.27 | 9.1 | <0.02 | <10 | 270 | 0.20 | 1.80 | 0.32 | 1.12 | 8.86 | 6.2 | 8 | 0.21 | 55.9 |
| DUP | | 0.86 | 0.27 | 9.0 | <0.02 | <10 | 260 | 0.20 | 1.78 | 0.32 | 1.14 | 9.04 | 6.3 | 8 | 0.21 | 56.3 |
| Target Range - Lower Bound | | 0.81 | 0.25 | 8.5 | <0.02 | <10 | 240 | 0.14 | 1.69 | 0.29 | 1.06 | 8.48 | 5.8 | 7 | 0.15 | 53.9 |
| Upper Bound | | 0.92 | 0.29 | 9.6 | 0.04 | 20 | 290 | 0.26 | 1.89 | 0.35 | 1.20 | 9.42 | 6.7 | 9 | 0.27 | 58.3 |
| ORIGINAL | | 0.50 | 1.55 | 8.3 | 0.27 | <10 | 190 | 0.30 | 0.17 | 2.12 | 0.06 | 16.75 | 11.2 | 4 | 1.41 | 2180 |
| DUP | | 0.47 | 1.56 | 8.3 | 0.16 | <10 | 190 | 0.25 | 0.17 | 2.11 | 0.06 | 16.40 | 10.9 | 4 | 1.39 | 2170 |
| Target Range - Lower Bound | | 0.45 | 1.47 | 7.8 | 0.18 | <10 | 170 | 0.21 | 0.15 | 2.00 | 0.05 | 15.75 | 10.4 | 3 | 1.28 | 2100 |
| Upper Bound | | 0.52 | 1.64 | 8.8 | 0.25 | 20 | 210 | 0.34 | 0.19 | 2.23 | 0.07 | 17.40 | 11.7 | 5 | 1.52 | 2250 |
| ORIGINAL | | 6.65 | 0.36 | 128.0 | 0.87 | <10 | 30 | 0.06 | 35.9 | 0.15 | 1.96 | 22.6 | 6.8 | 268 | 0.89 | 208 |
| DUP | | 6.65 | 0.37 | 129.0 | 1.00 | <10 | 10 | <0.05 | 37.0 | 0.15 | 1.89 | 22.4 | 6.2 | 273 | 0.87 | 211 |
| Target Range - Lower Bound | | 6.31 | 0.34 | 122.0 | 0.87 | <10 | <10 | <0.05 | 34.6 | 0.13 | 1.82 | 21.4 | 6.1 | 256 | 0.79 | 202 |
| Upper Bound | | 6.99 | 0.39 | 135.0 | 1.00 | 20 | 30 | 0.10 | 38.3 | 0.17 | 2.03 | 23.6 | 6.9 | 285 | 0.97 | 217 |



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Page: 3 - B
 Total # Pages: 3 (A - D)
 Plus Appendix Pages
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QC CERTIFICATE OF ANALYSIS SD18197526

| Sample Description | Method Analyte Units LOD | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | |
|----------------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| | | Fe % | Ga ppm | Ge ppm | Hf ppm | Hg ppm | In ppm | K % | La ppm | Li ppm | Mg % | Mn ppm | Mo ppm | Na % | Nb ppm | Ni ppm |
| DUPLICATES | | | | | | | | | | | | | | | | |
| 2018KNS025 | | 0.41 | 1.77 | 0.09 | <0.02 | 0.11 | 0.058 | 0.05 | 7.4 | 1.2 | 0.04 | 147 | 0.31 | 0.01 | 0.27 | 20.4 |
| DUP | | 0.41 | 1.92 | 0.10 | <0.02 | 0.13 | 0.063 | 0.05 | 8.2 | 1.2 | 0.04 | 145 | 0.38 | 0.01 | 0.30 | 22.1 |
| Target Range - Lower Bound | | 0.38 | 1.70 | <0.05 | <0.02 | 0.10 | 0.052 | 0.04 | 7.2 | 1.0 | 0.03 | 134 | 0.28 | <0.01 | 0.22 | 20.0 |
| Upper Bound | | 0.44 | 1.99 | 0.10 | 0.04 | 0.14 | 0.069 | 0.06 | 8.4 | 1.4 | 0.05 | 158 | 0.41 | 0.02 | 0.35 | 22.5 |
| 2018KTS007 | | 0.54 | 1.64 | <0.05 | <0.02 | 0.15 | 0.021 | 0.03 | 2.6 | 1.5 | 0.05 | 63 | 0.28 | 0.01 | 0.34 | 8.8 |
| DUP | | 0.57 | 1.70 | <0.05 | <0.02 | 0.14 | 0.020 | 0.03 | 2.7 | 1.5 | 0.05 | 66 | 0.30 | 0.01 | 0.36 | 9.1 |
| Target Range - Lower Bound | | 0.52 | 1.54 | <0.05 | <0.02 | 0.12 | 0.014 | 0.02 | 2.3 | 1.3 | 0.04 | 56 | 0.23 | <0.01 | 0.28 | 8.3 |
| Upper Bound | | 0.59 | 1.80 | 0.10 | 0.04 | 0.17 | 0.027 | 0.04 | 3.0 | 1.7 | 0.06 | 73 | 0.35 | 0.02 | 0.42 | 9.6 |
| 2018KTS045 | | 1.95 | 5.54 | <0.05 | <0.02 | 0.10 | 0.031 | 0.05 | 6.9 | 13.5 | 0.22 | 301 | 0.51 | <0.01 | 1.25 | 20.6 |
| DUP | | 1.96 | 5.62 | <0.05 | <0.02 | 0.10 | 0.029 | 0.05 | 6.9 | 11.4 | 0.22 | 295 | 0.51 | <0.01 | 1.28 | 20.2 |
| Target Range - Lower Bound | | 1.85 | 5.25 | <0.05 | <0.02 | 0.08 | 0.024 | 0.04 | 6.4 | 11.7 | 0.20 | 278 | 0.43 | <0.01 | 1.15 | 19.2 |
| Upper Bound | | 2.06 | 5.91 | 0.10 | 0.04 | 0.12 | 0.037 | 0.06 | 7.4 | 13.2 | 0.24 | 318 | 0.59 | 0.02 | 1.38 | 21.6 |
| 2018KTS083 | | 0.47 | 1.53 | 0.05 | <0.02 | 0.48 | 0.108 | 0.11 | 3.6 | 0.7 | 0.04 | 506 | 0.84 | <0.01 | 0.14 | 28.6 |
| DUP | | 0.47 | 1.52 | 0.05 | <0.02 | 0.46 | 0.102 | 0.11 | 3.7 | 0.7 | 0.05 | 489 | 0.84 | <0.01 | 0.13 | 28.6 |
| Target Range - Lower Bound | | 0.44 | 1.40 | <0.05 | <0.02 | 0.42 | 0.095 | 0.09 | 3.3 | 0.6 | 0.03 | 468 | 0.75 | <0.01 | 0.08 | 27.0 |
| Upper Bound | | 0.50 | 1.65 | 0.10 | 0.04 | 0.52 | 0.115 | 0.13 | 4.0 | 0.8 | 0.06 | 527 | 0.93 | 0.02 | 0.19 | 30.2 |
| 2018KTS106 | | 0.92 | 1.19 | 0.08 | 0.02 | 0.34 | 0.048 | 0.04 | 9.7 | 1.2 | 0.10 | 19 | 1.91 | <0.01 | 0.32 | 21.4 |
| DUP | | 0.94 | 1.19 | 0.07 | 0.02 | 0.35 | 0.049 | 0.04 | 9.7 | 1.2 | 0.10 | 19 | 1.95 | <0.01 | 0.34 | 21.7 |
| Target Range - Lower Bound | | 0.87 | 1.08 | <0.05 | <0.02 | 0.31 | 0.041 | 0.03 | 9.0 | 1.0 | 0.09 | 13 | 1.78 | <0.01 | 0.26 | 20.3 |
| Upper Bound | | 0.99 | 1.30 | 0.10 | 0.04 | 0.38 | 0.056 | 0.05 | 10.4 | 1.4 | 0.12 | 25 | 2.08 | 0.02 | 0.40 | 22.8 |
| 2018KBS187 | | 0.42 | 1.54 | <0.05 | <0.02 | 0.21 | 0.108 | 0.05 | 7.1 | 0.7 | 0.04 | 63 | 0.39 | <0.01 | 0.19 | 36.8 |
| DUP | | 0.42 | 1.56 | <0.05 | <0.02 | 0.23 | 0.113 | 0.05 | 7.3 | 0.6 | 0.04 | 66 | 0.38 | <0.01 | 0.19 | 36.5 |
| Target Range - Lower Bound | | 0.39 | 1.42 | <0.05 | <0.02 | 0.19 | 0.100 | 0.04 | 6.6 | 0.5 | 0.03 | 56 | 0.32 | <0.01 | 0.13 | 34.6 |
| Upper Bound | | 0.45 | 1.68 | 0.10 | 0.04 | 0.25 | 0.121 | 0.06 | 7.8 | 0.8 | 0.05 | 73 | 0.45 | 0.02 | 0.25 | 38.7 |
| ORIGINAL | | 3.53 | 6.06 | 0.08 | 0.07 | 0.04 | 0.048 | 0.32 | 9.6 | 8.8 | 1.04 | 889 | 6.51 | 0.02 | <0.05 | 5.6 |
| DUP | | 3.53 | 5.87 | 0.08 | 0.07 | 0.03 | 0.043 | 0.33 | 9.5 | 9.0 | 1.04 | 888 | 7.25 | 0.02 | <0.05 | 5.4 |
| Target Range - Lower Bound | | 3.34 | 5.62 | <0.05 | 0.05 | 0.02 | 0.038 | 0.30 | 8.9 | 8.4 | 0.98 | 839 | 6.49 | <0.01 | <0.05 | 5.0 |
| Upper Bound | | 3.72 | 6.31 | 0.10 | 0.09 | 0.05 | 0.053 | 0.35 | 10.2 | 9.4 | 1.10 | 938 | 7.27 | 0.03 | 0.10 | 6.0 |
| ORIGINAL | | 10.90 | 1.48 | 0.14 | 0.24 | 0.01 | 0.329 | 0.11 | 11.3 | 2.2 | 0.10 | 205 | 1.90 | 0.02 | 0.17 | 9.8 |
| DUP | | 11.25 | 1.32 | 0.12 | 0.25 | 0.02 | 0.326 | 0.11 | 10.8 | 2.0 | 0.10 | 212 | 1.88 | 0.02 | 0.15 | 8.7 |
| Target Range - Lower Bound | | 10.50 | 1.28 | 0.07 | 0.21 | <0.01 | 0.306 | 0.09 | 10.3 | 1.9 | 0.09 | 193 | 1.75 | <0.01 | 0.10 | 8.6 |
| Upper Bound | | 11.65 | 1.52 | 0.19 | 0.28 | 0.02 | 0.349 | 0.13 | 11.8 | 2.3 | 0.12 | 224 | 2.03 | 0.03 | 0.22 | 9.9 |



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Page: 3 - C
 Total # Pages: 3 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

Project: 99421

QC CERTIFICATE OF ANALYSIS SD18197526

| Sample Description | Method Analyte Units LOD | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | |
|----------------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| | | P ppm | Pb ppm | Rb ppm | Re ppm | S % | Sb ppm | Sc ppm | Se ppm | Sn ppm | Sr ppm | Ta ppm | Te ppm | Th ppm | Ti % | Tl ppm |
| DUPLICATES | | | | | | | | | | | | | | | | |
| 2018KNS025 | | 430 | 58.5 | 2.7 | 0.001 | 0.05 | 0.42 | 0.3 | 1.2 | 1.5 | 20.3 | <0.01 | 0.02 | <0.2 | 0.017 | 0.03 |
| DUP | | 450 | 61.6 | 2.9 | 0.001 | 0.05 | 0.48 | 0.3 | 1.3 | 1.6 | 22.0 | <0.01 | 0.03 | <0.2 | 0.018 | 0.04 |
| Target Range - Lower Bound | | 410 | 56.8 | 2.6 | <0.001 | 0.04 | 0.37 | 0.2 | 1.0 | 1.3 | 19.9 | <0.01 | <0.01 | <0.2 | 0.012 | <0.02 |
| Upper Bound | | 470 | 63.3 | 3.0 | 0.002 | 0.06 | 0.53 | 0.4 | 1.5 | 1.8 | 22.4 | 0.02 | 0.04 | 0.4 | 0.023 | 0.04 |
| 2018KTS007 | | 500 | 13.4 | 1.9 | 0.003 | 0.06 | 0.34 | 0.2 | 0.6 | 0.4 | 19.5 | <0.01 | 0.03 | <0.2 | 0.018 | 0.02 |
| DUP | | 520 | 14.0 | 2.0 | 0.002 | 0.07 | 0.36 | 0.2 | 0.8 | 0.4 | 20.1 | <0.01 | 0.03 | <0.2 | 0.018 | 0.02 |
| Target Range - Lower Bound | | 470 | 12.8 | 1.8 | <0.001 | 0.05 | 0.27 | <0.1 | 0.5 | <0.2 | 18.6 | <0.01 | 0.02 | <0.2 | 0.012 | <0.02 |
| Upper Bound | | 550 | 14.6 | 2.1 | 0.004 | 0.08 | 0.43 | 0.3 | 0.9 | 0.6 | 21.0 | 0.02 | 0.04 | 0.4 | 0.024 | 0.04 |
| 2018KTS045 | | 660 | 17.7 | 6.6 | <0.001 | 0.03 | 0.35 | 1.3 | 0.7 | 0.7 | 15.6 | <0.01 | 0.05 | 0.7 | 0.061 | 0.06 |
| DUP | | 670 | 17.3 | 6.7 | <0.001 | 0.03 | 0.34 | 1.3 | 0.6 | 0.7 | 16.0 | <0.01 | 0.05 | 0.8 | 0.064 | 0.06 |
| Target Range - Lower Bound | | 620 | 16.4 | 6.2 | <0.001 | 0.02 | 0.27 | 1.1 | 0.4 | 0.5 | 14.8 | <0.01 | 0.04 | 0.5 | 0.054 | 0.04 |
| Upper Bound | | 710 | 18.6 | 7.1 | 0.002 | 0.04 | 0.42 | 1.5 | 0.9 | 0.9 | 16.8 | 0.02 | 0.06 | 1.0 | 0.071 | 0.08 |
| 2018KTS083 | | 1370 | 98.4 | 4.6 | 0.002 | 0.10 | 1.38 | 0.3 | 2.5 | 2.8 | 22.3 | <0.01 | 0.05 | <0.2 | 0.008 | 0.07 |
| DUP | | 1350 | 98.4 | 4.7 | 0.002 | 0.10 | 1.31 | 0.2 | 2.6 | 2.8 | 22.4 | <0.01 | 0.06 | <0.2 | 0.008 | 0.07 |
| Target Range - Lower Bound | | 1280 | 93.3 | 4.3 | <0.001 | 0.09 | 1.19 | <0.1 | 2.2 | 2.5 | 21.0 | <0.01 | 0.04 | <0.2 | <0.005 | 0.04 |
| Upper Bound | | 1440 | 103.5 | 5.0 | 0.003 | 0.12 | 1.50 | 0.4 | 2.9 | 3.1 | 23.7 | 0.02 | 0.07 | 0.4 | 0.010 | 0.10 |
| 2018KTS106 | | 820 | 46.8 | 1.9 | 0.001 | 0.28 | 1.26 | 1.0 | 2.1 | 1.6 | 14.3 | <0.01 | 0.08 | <0.2 | 0.010 | 0.04 |
| DUP | | 840 | 47.3 | 1.9 | 0.001 | 0.28 | 1.29 | 1.1 | 2.4 | 1.6 | 14.6 | <0.01 | 0.08 | <0.2 | 0.011 | 0.04 |
| Target Range - Lower Bound | | 780 | 44.5 | 1.7 | <0.001 | 0.26 | 1.13 | 0.9 | 1.9 | 1.3 | 13.5 | <0.01 | 0.07 | <0.2 | <0.005 | <0.02 |
| Upper Bound | | 880 | 49.6 | 2.1 | 0.002 | 0.30 | 1.42 | 1.2 | 2.6 | 1.9 | 15.4 | 0.02 | 0.09 | 0.4 | 0.016 | 0.06 |
| 2018KBS187 | | 400 | 111.5 | 2.6 | 0.003 | 0.06 | 0.62 | 0.2 | 2.0 | 3.0 | 47.9 | <0.01 | 0.05 | <0.2 | 0.009 | 0.02 |
| DUP | | 400 | 110.5 | 2.6 | 0.003 | 0.06 | 0.62 | 0.3 | 1.9 | 2.9 | 48.2 | <0.01 | 0.04 | <0.2 | 0.009 | 0.02 |
| Target Range - Lower Bound | | 370 | 105.5 | 2.4 | 0.002 | 0.05 | 0.52 | <0.1 | 1.7 | 2.6 | 45.4 | <0.01 | 0.03 | <0.2 | <0.005 | <0.02 |
| Upper Bound | | 430 | 117.0 | 2.8 | 0.004 | 0.07 | 0.72 | 0.4 | 2.2 | 3.3 | 50.7 | 0.02 | 0.06 | 0.4 | 0.010 | 0.04 |
| ORIGINAL | | 1260 | 4.0 | 17.2 | 0.028 | 0.48 | 1.11 | 5.9 | 5.4 | 0.3 | 149.0 | <0.01 | 0.06 | 2.1 | 0.006 | 0.15 |
| DUP | | 1270 | 3.8 | 17.1 | 0.035 | 0.48 | 1.08 | 5.8 | 5.1 | 0.3 | 147.5 | <0.01 | 0.05 | 2.0 | 0.007 | 0.14 |
| Target Range - Lower Bound | | 1190 | 3.5 | 16.2 | 0.029 | 0.45 | 0.96 | 5.5 | 4.8 | <0.2 | 140.5 | <0.01 | 0.04 | 1.7 | <0.005 | 0.11 |
| Upper Bound | | 1340 | 4.3 | 18.1 | 0.034 | 0.51 | 1.23 | 6.2 | 5.7 | 0.4 | 156.0 | 0.02 | 0.07 | 2.4 | 0.010 | 0.18 |
| ORIGINAL | | 260 | 193.0 | 4.0 | 0.002 | >10.0 | 2.66 | 1.1 | 27.1 | 2.2 | 8.2 | <0.01 | 12.10 | 2.8 | 0.008 | 0.98 |
| DUP | | 270 | 228 | 3.8 | 0.002 | >10.0 | 2.66 | 1.0 | 25.6 | 2.2 | 8.1 | <0.01 | 11.70 | 2.8 | 0.008 | 1.01 |
| Target Range - Lower Bound | | 240 | 200.0 | 3.6 | <0.001 | 9.49 | 2.41 | 0.9 | 24.8 | 1.9 | 7.5 | <0.01 | 11.30 | 2.5 | <0.005 | 0.90 |
| Upper Bound | | 290 | 221 | 4.2 | 0.003 | 10.00 | 2.91 | 1.2 | 27.9 | 2.5 | 8.8 | 0.02 | 12.50 | 3.1 | 0.010 | 1.09 |



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Page: 3 - D
 Total # Pages: 3 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2018
 Account: TTB

Project: 99421

QC CERTIFICATE OF ANALYSIS SD18197526

| Sample Description | Method Analyte Units LOD | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 |
|----------------------------|-----------------------------------|------------------|---------------|------------------|------------------|----------------|------------------|
| | | U ppm 0.05 | V ppm 1 | W ppm 0.05 | Y ppm 0.05 | Zn ppm 2 | Zr ppm 0.5 |
| DUPLICATES | | | | | | | |
| 2018KNS025 | | 0.16 | 9 | 0.08 | 0.97 | 24 | <0.5 |
| DUP | | 0.17 | 10 | 0.08 | 1.03 | 25 | <0.5 |
| Target Range - Lower Bound | | 0.11 | 8 | <0.05 | 0.90 | 21 | <0.5 |
| Upper Bound | | 0.22 | 11 | 0.10 | 1.10 | 28 | 1.0 |
| 2018KTS007 | | 0.13 | 12 | 0.06 | 0.83 | 45 | <0.5 |
| DUP | | 0.15 | 12 | 0.06 | 0.86 | 48 | <0.5 |
| Target Range - Lower Bound | | 0.08 | 10 | <0.05 | 0.75 | 42 | <0.5 |
| Upper Bound | | 0.20 | 14 | 0.10 | 0.94 | 51 | 1.0 |
| 2018KTS045 | | 0.31 | 37 | 0.11 | 1.76 | 63 | <0.5 |
| DUP | | 0.30 | 38 | 0.10 | 1.88 | 64 | <0.5 |
| Target Range - Lower Bound | | 0.24 | 35 | <0.05 | 1.68 | 58 | <0.5 |
| Upper Bound | | 0.37 | 40 | 0.16 | 1.96 | 69 | 1.0 |
| 2018KTS083 | | 0.26 | 8 | 0.12 | 1.33 | 77 | <0.5 |
| DUP | | 0.24 | 8 | 0.12 | 1.32 | 76 | <0.5 |
| Target Range - Lower Bound | | 0.19 | 7 | 0.06 | 1.21 | 71 | <0.5 |
| Upper Bound | | 0.31 | 9 | 0.18 | 1.44 | 82 | 1.0 |
| 2018KTS106 | | 0.63 | 9 | 0.11 | 4.46 | 24 | 0.8 |
| DUP | | 0.63 | 9 | 0.11 | 4.51 | 24 | 0.8 |
| Target Range - Lower Bound | | 0.55 | 8 | <0.05 | 4.21 | 21 | <0.5 |
| Upper Bound | | 0.71 | 10 | 0.17 | 4.76 | 27 | 1.0 |
| 2018KBS187 | | 0.18 | 7 | 0.09 | 1.64 | 35 | <0.5 |
| DUP | | 0.20 | 7 | 0.09 | 1.64 | 35 | <0.5 |
| Target Range - Lower Bound | | 0.13 | 6 | <0.05 | 1.51 | 31 | <0.5 |
| Upper Bound | | 0.25 | 8 | 0.10 | 1.77 | 39 | 1.0 |
| ORIGINAL | | 0.64 | 77 | 0.24 | 7.73 | 38 | 1.4 |
| DUP | | 0.64 | 77 | 0.23 | 7.57 | 38 | 1.4 |
| Target Range - Lower Bound | | 0.56 | 72 | 0.17 | 7.22 | 34 | 0.8 |
| Upper Bound | | 0.72 | 82 | 0.30 | 8.08 | 42 | 2.0 |
| ORIGINAL | | 0.58 | 3 | 4.94 | 2.86 | 557 | 11.0 |
| DUP | | 0.62 | 3 | 4.93 | 2.72 | 568 | 10.7 |
| Target Range - Lower Bound | | 0.52 | 2 | 4.51 | 2.60 | 532 | 9.5 |
| Upper Bound | | 0.68 | 4 | 5.36 | 2.98 | 593 | 12.2 |



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Total # Appendix Pages: 1
Finalized Date: 31-AUG-2018
Account: TTB

Project: 99421

QC CERTIFICATE OF ANALYSIS SD18197526

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

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

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.
LOG-22 SCR-41 WEI-21

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



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Page: 1
 Total # Pages: 2 (A)
 Plus Appendix Pages
 Finalized Date: 29-AUG-2018
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CERTIFICATE SD18196580

Project: 99421

This report is for 31 Rock samples submitted to our lab in Sudbury, ON, Canada on 10-AUG-2018.

The following have access to data associated with this certificate:

| | | |
|-------------|--|--|
| KRIS RAFFLE | | |
|-------------|--|--|

| SAMPLE PREPARATION | |
|--------------------|--------------------------------|
| ALS CODE | DESCRIPTION |
| WEI-21 | Received Sample Weight |
| LOG-22 | Sample login - Rcd w/o BarCode |
| CRU-31 | Fine crushing - 70% <2mm |
| CRU-QC | Crushing QC Test |
| PUL-QC | Pulverizing QC Test |
| SPL-21 | Split sample - riffle splitter |
| PUL-31 | Pulverize split to 85% <75 um |

| ANALYTICAL PROCEDURES | | |
|-----------------------|---------------------------|------------|
| ALS CODE | DESCRIPTION | INSTRUMENT |
| PGM-ICP23 | Pt, Pd, Au 30g FA ICP | ICP-AES |
| Ag-AA45 | Trace Ag - aqua regia/AAS | AAS |
| ME-ICP81 | ICP Fusion - Ore Grade | ICP-AES |

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
 Total # Pages: 2 (A)
 Plus Appendix Pages
 Finalized Date: 29-AUG-2018
 Account: TTB

Project: 99421

CERTIFICATE OF ANALYSIS SD18196580

| Sample Description | Method Analyte Units LOD | WEI-21 | ME-ICP81 | ME-ICP81 | ME-ICP81 | PGM-ICP23 | PGM-ICP23 | PGM-ICP23 | Ag-AA45 | CRU-QC | PUL-QC |
|--------------------|--------------------------|--------------|----------|----------|----------|-----------|-----------|-----------|---------|-----------|------------|
| | | Recvd Wt. kg | Co % | Cu % | Ni % | Au ppm | Pt ppm | Pd ppm | Ag ppm | Pass2mm % | Pass75um % |
| | | 0.02 | 0.002 | 0.002 | 0.002 | 0.001 | 0.005 | 0.001 | 0.2 | 0.01 | 0.01 |
| 2018KBP031 | | 1.33 | 0.014 | 0.003 | 0.019 | <0.001 | <0.005 | 0.001 | 1.1 | 80.5 | 91.6 |
| 2018KBP032 | | 0.21 | 0.007 | 0.008 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | 87.7 |
| 2018KBP033 | | 0.11 | 0.424 | <0.002 | 0.030 | 0.029 | <0.005 | 0.001 | <0.2 | | |
| 2018KBP034 | | 0.02 | 0.825 | <0.002 | 0.046 | 0.034 | <0.005 | <0.001 | <0.2 | | |
| 2018KBP035 | | 1.67 | 0.006 | 0.016 | 0.008 | 0.004 | <0.005 | <0.001 | <0.2 | | |
| 2018KBP036 | | 1.10 | 0.004 | 0.005 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| 2018KBP037 | | 3.44 | 0.191 | 0.002 | 0.019 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| 2018KBP038 | | 0.18 | 0.004 | 0.018 | 0.007 | 0.001 | 0.013 | 0.008 | <0.2 | | |
| 2018KBP039 | | 0.62 | 0.005 | 0.014 | 0.012 | <0.001 | 0.010 | 0.008 | <0.2 | | |
| 2018KBP040 | | 1.95 | 2.02 | 0.022 | 0.158 | 0.035 | <0.005 | 0.001 | 13.1 | | |
| 2018KBP041 | | 0.31 | 0.070 | 0.011 | 0.011 | 0.010 | <0.005 | <0.001 | 1.3 | | |
| 2018KBP042 | | 0.11 | 0.611 | 0.010 | 0.095 | 0.026 | <0.005 | <0.001 | 4.1 | | |
| 2018KBP043 | | 0.09 | 0.017 | 0.002 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| 2018KBP044 | | 1.70 | 0.007 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| 2018KBP045 | | 1.09 | 0.009 | 0.053 | 0.009 | <0.001 | <0.005 | 0.001 | 0.6 | | |
| 2018KBP046 | | 0.41 | 0.007 | 0.041 | 0.009 | <0.001 | <0.005 | 0.001 | 0.2 | | |
| 2018KBP047 | | 1.71 | 0.005 | 0.043 | 0.008 | <0.001 | 0.009 | 0.009 | <0.2 | | |
| 2018KBP048 | | 0.46 | <0.002 | 0.010 | 0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| 2018KBP049 | | 1.40 | 0.037 | 0.009 | 0.005 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| 2018KBP050 | | 0.18 | 0.030 | 0.018 | 0.006 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| 2018KBP051 | | 0.86 | 0.065 | 0.025 | 0.010 | <0.001 | <0.005 | 0.001 | 0.2 | | |
| 2018KBP052 | | 0.74 | 0.035 | 0.015 | 0.010 | 0.001 | <0.005 | <0.001 | 0.2 | | |
| 2018KBP053 | | 1.38 | 0.005 | 0.016 | 0.005 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| 2018KBP054 | | 0.10 | <0.002 | 0.002 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| 2018KBP055 | | 0.12 | <0.002 | 0.009 | <0.002 | <0.001 | <0.005 | <0.001 | 0.2 | | |
| 2018KBP056 | | 0.16 | 0.007 | 0.004 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| 2018KBP057 | | 0.18 | 0.007 | 0.033 | 0.003 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| 2018KBP058 | | 1.68 | 0.006 | 0.043 | 0.005 | <0.001 | <0.005 | 0.001 | 0.2 | | |
| 2018KBP059 | | 0.10 | <0.002 | 0.047 | 0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| 2018KBP060 | | 1.19 | 0.005 | 0.007 | 0.009 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| 2018KBP061 | | 3.35 | 0.006 | 0.012 | 0.004 | 0.366 | <0.005 | 0.001 | <0.2 | | |



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Total # Appendix Pages: 1
Finalized Date: 29-AUG-2018
Account: TTB

Project: 99421

CERTIFICATE OF ANALYSIS SD18196580

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

| | | | |
|--------------------|---|----------|-----------|
| Applies to Method: | Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada. | | |
| | CRU-31 | CRU-QC | LOG-22 |
| | PUL-QC | SPL-21 | WEI-21 |
| | | | PUL-31 |
| Applies to Method: | Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. | | |
| | Ag-AA45 | ME-ICP81 | PGM-ICP23 |



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Page: 1
 Total # Pages: 4 (A)
 Plus Appendix Pages
 Finalized Date: 29-AUG-2018
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QC CERTIFICATE SD18196580

Project: 99421

This report is for 31 Rock samples submitted to our lab in Sudbury, ON, Canada on 10-AUG-2018.

The following have access to data associated with this certificate:

| | | |
|-------------|--|--|
| KRIS RAFFLE | | |
|-------------|--|--|

| SAMPLE PREPARATION | |
|--------------------|--------------------------------|
| ALS CODE | DESCRIPTION |
| WEI-21 | Received Sample Weight |
| LOG-22 | Sample login - Rcd w/o BarCode |
| CRU-31 | Fine crushing - 70% <2mm |
| CRU-QC | Crushing QC Test |
| PUL-QC | Pulverizing QC Test |
| SPL-21 | Split sample - riffle splitter |
| PUL-31 | Pulverize split to 85% <75 um |

| ANALYTICAL PROCEDURES | | |
|-----------------------|---------------------------|------------|
| ALS CODE | DESCRIPTION | INSTRUMENT |
| PGM-ICP23 | Pt, Pd, Au 30g FA ICP | ICP-AES |
| Ag-AA45 | Trace Ag - aqua regia/AAS | AAS |
| ME-ICP81 | ICP Fusion - Ore Grade | ICP-AES |

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
 Total # Pages: 4 (A)
 Plus Appendix Pages
 Finalized Date: 29-AUG-2018
 Account: TTB

Project: 99421

QC CERTIFICATE OF ANALYSIS SD18196580

| Sample Description | Method Analyte Units LOD | ME-ICP81 | ME-ICP81 | ME-ICP81 | PGM-ICP23 | PGM-ICP23 | PGM-ICP23 | Ag-AA45 |
|----------------------------|--------------------------|----------|----------|----------|-----------|-----------|-----------|---------|
| | | Co % | Cu % | Ni % | Au ppm | Pt ppm | Pd ppm | Ag ppm |
| | | 0.002 | 0.002 | 0.002 | 0.001 | 0.005 | 0.001 | 0.2 |
| STANDARDS | | | | | | | | |
| AMIS0324 | | 0.324 | 3.11 | 5.42 | | | | |
| AMIS0324 | | 0.310 | 3.02 | 5.33 | | | | |
| Target Range - Lower Bound | | 0.304 | 3.02 | 5.30 | | | | |
| Upper Bound | | 0.341 | 3.34 | 5.87 | | | | |
| GBM906-1 | | | | | | | | 22.3 |
| Target Range - Lower Bound | | | | | | | | 20.8 |
| Upper Bound | | | | | | | | 24.4 |
| GPP-14 | | | | | 0.909 | 0.501 | 0.483 | |
| Target Range - Lower Bound | | | | | 0.853 | 0.468 | 0.451 | |
| Upper Bound | | | | | 0.965 | 0.538 | 0.511 | |
| JK-17 | | | | | 2.01 | <0.005 | 0.002 | |
| Target Range - Lower Bound | | | | | 1.875 | | | |
| Upper Bound | | | | | 2.12 | | | |
| MRGeo08 | | | | | | | | 4.3 |
| Target Range - Lower Bound | | | | | | | | 3.9 |
| Upper Bound | | | | | | | | 5.0 |
| OGGeo08 | | | | | | | | 20.0 |
| Target Range - Lower Bound | | | | | | | | 18.6 |
| Upper Bound | | | | | | | | 21.8 |
| OREAS 503c | | | | | 0.705 | <0.005 | 0.009 | |
| Target Range - Lower Bound | | | | | | | | |
| Upper Bound | | | | | | | | |
| OREAS-132a | | | | | | | | 54.6 |
| Target Range - Lower Bound | | | | | | | | 51.5 |
| Upper Bound | | | | | | | | 59.7 |
| PK2 | | | | | 4.95 | 4.75 | 5.97 | |
| Target Range - Lower Bound | | | | | 4.50 | 4.46 | 5.56 | |
| Upper Bound | | | | | 5.07 | 5.04 | 6.27 | |
| SU-1b | | 0.067 | 1.180 | 1.995 | | | | |
| SU-1b | | 0.065 | 1.155 | 1.955 | | | | |
| Target Range - Lower Bound | | 0.062 | 1.125 | 1.855 | | | | |
| Upper Bound | | 0.073 | 1.245 | 2.05 | | | | |

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



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Page: 3 - A
 Total # Pages: 4 (A)
 Plus Appendix Pages
 Finalized Date: 29-AUG-2018
 Account: TTB

Project: 99421

QC CERTIFICATE OF ANALYSIS SD18196580

| Sample Description | Method Analyte Units LOD | ME-ICP81 Co % | ME-ICP81 Cu % | ME-ICP81 Ni % | PGM-ICP23 Au ppm | PGM-ICP23 Pt ppm | PGM-ICP23 Pd ppm | Ag-AA45 Ag ppm |
|----------------------------|--------------------------|---------------|---------------|---------------|------------------|------------------|------------------|----------------|
| | | 0.002 | 0.002 | 0.002 | 0.001 | 0.005 | 0.001 | 0.2 |
| BLANKS | | | | | | | | |
| BLANK | | | | | | | | <0.2 |
| BLANK | | | | | | | | <0.2 |
| Target Range - Lower Bound | | | | | | | | <0.2 |
| Upper Bound | | | | | | | | 0.4 |
| BLANK | | 0.002 | <0.002 | <0.002 | | | | |
| BLANK | | <0.002 | 0.003 | <0.002 | | | | |
| Target Range - Lower Bound | | <0.002 | <0.002 | <0.002 | | | | |
| Upper Bound | | 0.004 | 0.004 | 0.004 | | | | |
| BLANK | | | | | 0.002 | <0.005 | 0.001 | |
| Target Range - Lower Bound | | | | | <0.001 | <0.005 | <0.001 | |
| Upper Bound | | | | | 0.002 | 0.010 | 0.002 | |
| DUPLICATES | | | | | | | | |
| ORIGINAL | | | | | 0.042 | 0.084 | 0.151 | |
| DUP | | | | | 0.040 | 0.100 | 0.146 | |
| Target Range - Lower Bound | | | | | 0.038 | 0.082 | 0.140 | |
| Upper Bound | | | | | 0.044 | 0.102 | 0.157 | |
| ORIGINAL | | 0.005 | 0.051 | 0.028 | | | | |
| DUP | | 0.004 | 0.052 | 0.028 | | | | |
| Target Range - Lower Bound | | <0.002 | 0.048 | 0.025 | | | | |
| Upper Bound | | 0.007 | 0.055 | 0.031 | | | | |
| ORIGINAL | | | | | <0.001 | <0.005 | 0.002 | |
| DUP | | | | | <0.001 | 0.005 | 0.004 | |
| Target Range - Lower Bound | | | | | <0.001 | <0.005 | 0.002 | |
| Upper Bound | | | | | 0.002 | 0.010 | 0.004 | |
| 2018KBP044 | | 0.007 | 0.003 | <0.002 | | | | |
| DUP | | 0.008 | 0.010 | <0.002 | | | | |
| Target Range - Lower Bound | | 0.005 | 0.004 | <0.002 | | | | |
| Upper Bound | | 0.010 | 0.009 | 0.004 | | | | |
| 2018KBP047 | | | | | <0.001 | 0.009 | 0.009 | |
| DUP | | | | | 0.001 | 0.008 | 0.009 | |
| Target Range - Lower Bound | | | | | <0.001 | <0.005 | 0.008 | |
| Upper Bound | | | | | 0.002 | 0.010 | 0.010 | |



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Page: 4 - A
 Total # Pages: 4 (A)
 Plus Appendix Pages
 Finalized Date: 29-AUG-2018
 Account: TTB

Project: 99421

QC CERTIFICATE OF ANALYSIS SD18196580

| Sample Description | Method Analyte Units LOD | ME-ICP81 Co % | ME-ICP81 Cu % | ME-ICP81 Ni % | PGM-ICP23 Au ppm | PGM-ICP23 Pt ppm | PGM-ICP23 Pd ppm | Ag-AA45 Ag ppm |
|----------------------------|-----------------------------|---------------------|---------------------|---------------------|------------------------|------------------------|------------------------|----------------------|
| | | 0.002 | 0.002 | 0.002 | 0.001 | 0.005 | 0.001 | 0.2 |
| DUPLICATES | | | | | | | | |
| 2018KBP051 DUP | | | | | | | | 0.2 0.2 |
| Target Range - Lower Bound | | | | | | | | <0.2 |
| Upper Bound | | | | | | | | 0.4 |
| ORIGINAL DUP | | | | | | | | 13.7 12.1 |
| Target Range - Lower Bound | | | | | | | | 12.1 |
| Upper Bound | | | | | | | | 13.7 |
| | | | | | | | | |



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Total # Appendix Pages: 1
Finalized Date: 29-AUG-2018
Account: TTB

Project: 99421

QC CERTIFICATE OF ANALYSIS SD18196580

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

| | | | |
|--------------------|---|----------|-----------|
| Applies to Method: | Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada. | | |
| | CRU-31 | CRU-QC | LOG-22 |
| | PUL-QC | SPL-21 | WEI-21 |
| | | | PUL-31 |
| Applies to Method: | Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. | | |
| | Ag-AA45 | ME-ICP81 | PGM-ICP23 |



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Page: 1
 Total # Pages: 2 (A - B)
 Plus Appendix Pages
 Finalized Date: 21-OCT-2018
 Account: TTB

CERTIFICATE SD18249803

Project: 99421
 P.O. No.: 99421
 This report is for 12 Rock samples submitted to our lab in Sudbury, ON, Canada on 5-OCT-2018.
 The following have access to data associated with this certificate:
 KRIS RAFFLE

| SAMPLE PREPARATION | |
|--------------------|--------------------------------|
| ALS CODE | DESCRIPTION |
| WEI-21 | Received Sample Weight |
| LOG-22 | Sample login - Rcd w/o BarCode |
| CRU-31 | Fine crushing - 70% <2mm |
| CRU-QC | Crushing QC Test |
| PUL-QC | Pulverizing QC Test |
| SPL-21 | Split sample - riffle splitter |
| PUL-31 | Pulverize split to 85% <75 um |

| ANALYTICAL PROCEDURES | | |
|-----------------------|---------------------------|------------|
| ALS CODE | DESCRIPTION | INSTRUMENT |
| PGM-ICP23 | Pt, Pd, Au 30g FA ICP | ICP-AES |
| Ag-AA45 | Trace Ag - aqua regia/AAS | AAS |
| ME-ICP81 | ICP Fusion - Ore Grade | ICP-AES |

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
 Total # Pages: 2 (A - B)
 Plus Appendix Pages
 Finalized Date: 21-OCT-2018
 Account: TTB

Project: 99421

CERTIFICATE OF ANALYSIS SD18249803

| Sample Description | Method Analyte Units LOD | WEI-21 | ME-ICP81 | ME-ICP81 | ME-ICP81 | ME-ICP81 | ME-ICP81 | ME-ICP81 | ME-ICP81 | ME-ICP81 | ME-ICP81 | ME-ICP81 | ME-ICP81 | ME-ICP81 | ME-ICP81 | |
|--------------------|-----------------------------------|-----------------|------------|----------|----------|----------|----------|----------|----------|------------|----------|----------|----------|----------|----------|--------|
| | | Recvd Wt. kg | Al2O3 % | As % | CaO % | Co % | Cr % | Cu % | Fe % | Fe2O3 % | K % | MgO % | MnO % | Ni % | Pb % | S % |
| | | 0.02 | 0.01 | 0.01 | 0.05 | 0.002 | 0.01 | 0.002 | 0.05 | 0.05 | 0.1 | 0.01 | 0.01 | 0.002 | 0.01 | 0.01 |
| 18KRP601 | | 0.55 | 15.85 | 0.27 | 8.09 | 0.190 | <0.01 | 0.002 | 0.86 | 1.23 | 0.3 | 0.33 | 0.07 | 0.018 | <0.01 | 0.48 |
| 18KRP602 | | 0.66 | 13.10 | 0.04 | 12.60 | 0.031 | <0.01 | 0.004 | 2.30 | 3.28 | 0.4 | 3.11 | 0.70 | 0.010 | <0.01 | 0.26 |
| 18KRP603 | | 0.89 | 15.60 | 0.03 | 1.72 | 0.018 | <0.01 | 0.006 | 1.34 | 1.91 | 0.8 | 2.19 | 0.07 | 0.003 | <0.01 | 0.05 |
| 18KRP604 | | 0.89 | 13.75 | 0.01 | 8.83 | 0.016 | <0.01 | 0.107 | 1.78 | 2.54 | 0.9 | 3.59 | 0.46 | <0.002 | <0.01 | 0.35 |
| 18KRP605 | | 0.64 | 14.60 | 0.04 | 11.20 | 0.039 | <0.01 | 0.004 | 0.64 | 0.92 | 0.3 | 0.52 | 0.13 | 0.005 | <0.01 | 0.47 |
| 18KRP606 | | 0.76 | 10.65 | 0.03 | 0.25 | 0.012 | 0.01 | 0.062 | 12.15 | 17.40 | 0.4 | 6.65 | 0.34 | 0.005 | <0.01 | 0.09 |
| 18KRP607 | | 1.21 | 11.65 | <0.01 | 16.35 | 0.015 | <0.01 | 0.003 | 0.95 | 1.35 | 1.2 | 0.92 | 0.12 | <0.002 | <0.01 | 0.30 |
| 18MAP075 | | 0.60 | 15.30 | 0.56 | 7.08 | 0.401 | <0.01 | 0.002 | 1.14 | 1.63 | 0.4 | 0.12 | 0.06 | 0.044 | <0.01 | 1.20 |
| 18MAP076 | | 1.22 | 16.40 | 0.02 | 6.88 | 0.026 | <0.01 | 0.004 | 0.74 | 1.05 | 0.2 | 0.23 | 0.11 | <0.002 | <0.01 | 0.30 |
| 18MAP077 | | 1.23 | 15.15 | 0.06 | 7.95 | 0.036 | <0.01 | 0.026 | 0.69 | 0.99 | 0.6 | 0.86 | 0.08 | 0.003 | <0.01 | 0.18 |
| 18MAP078 | | 1.12 | 15.30 | 0.01 | 10.95 | 0.004 | <0.01 | <0.002 | 0.97 | 1.39 | 0.2 | 0.69 | 0.12 | <0.002 | <0.01 | 0.02 |
| 18MAP079 | | 0.90 | 10.80 | 0.01 | 0.46 | 0.002 | <0.01 | 0.004 | 0.74 | 1.05 | 0.3 | 0.40 | 0.02 | <0.002 | <0.01 | 0.02 |

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Page: 2 - B
 Total # Pages: 2 (A - B)
 Plus Appendix Pages
 Finalized Date: 21-OCT-2018
 Account: TTB

Project: 99421

CERTIFICATE OF ANALYSIS SD18249803

| Sample Description | Method Analyte Units LOD | ME-ICP81 | ME-ICP81 | ME-ICP81 | PGM-ICP23 | PGM-ICP23 | PGM-ICP23 | Ag-AA45 | CRU-QC | PUL-QC |
|--------------------|-----------------------------------|-----------|-----------|----------|-----------|-----------|-----------|-----------|--------------|---------------|
| | | SiO2 % | TiO2 % | Zn % | Au ppm | Pt ppm | Pd ppm | Ag ppm | Pass2mm % | Pass75um % |
| | | 0.2 | 0.01 | 0.002 | 0.001 | 0.005 | 0.001 | 0.2 | 0.01 | 0.01 |
| 18KRP601 | | 58.8 | 0.58 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | 86.4 | 93.8 |
| 18KRP602 | | 46.8 | 0.68 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | 91.6 |
| 18KRP603 | | 67.8 | 0.61 | <0.002 | <0.001 | <0.005 | <0.001 | 0.7 | | |
| 18KRP604 | | 50.5 | 0.38 | 0.002 | 0.004 | <0.005 | <0.001 | 0.5 | | |
| 18KRP605 | | 53.9 | 0.41 | <0.002 | 0.004 | <0.005 | 0.001 | 0.3 | | |
| 18KRP606 | | 56.7 | 0.68 | 0.003 | 0.038 | <0.005 | <0.001 | <0.2 | | |
| 18KRP607 | | 50.9 | 0.33 | <0.002 | 0.001 | <0.005 | <0.001 | <0.2 | | |
| 18MAP075 | | 60.5 | 0.48 | <0.002 | 0.004 | <0.005 | <0.001 | 0.4 | | |
| 18MAP076 | | 59.0 | 0.44 | <0.002 | 0.001 | <0.005 | <0.001 | <0.2 | | |
| 18MAP077 | | 59.5 | 0.43 | <0.002 | <0.001 | <0.005 | <0.001 | 0.2 | | |
| 18MAP078 | | 55.4 | 0.61 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| 18MAP079 | | 80.4 | 0.30 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |



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Total # Appendix Pages: 1
Finalized Date: 21-OCT-2018
Account: TTB

Project: 99421

CERTIFICATE OF ANALYSIS SD18249803

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

| | | | | |
|--------------------|---|----------|-----------|--------|
| Applies to Method: | Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada. | | | |
| | CRU-31 | CRU-QC | LOG-22 | |
| | PUL-QC | SPL-21 | WEI-21 | PUL-31 |
| Applies to Method: | Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. | | | |
| | Ag-AA45 | ME-ICP81 | PGM-ICP23 | |



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Page: 1
 Total # Pages: 3 (A - B)
 Plus Appendix Pages
 Finalized Date: 21-OCT-2018
 Account: TTB

QC CERTIFICATE SD18249803

Project: 99421
 P.O. No.: 99421
 This report is for 12 Rock samples submitted to our lab in Sudbury, ON, Canada on 5-OCT-2018.
 The following have access to data associated with this certificate:
 KRIS RAFFLE

| SAMPLE PREPARATION | |
|--------------------|--------------------------------|
| ALS CODE | DESCRIPTION |
| WEI-21 | Received Sample Weight |
| LOG-22 | Sample login - Rcd w/o BarCode |
| CRU-31 | Fine crushing - 70% <2mm |
| CRU-QC | Crushing QC Test |
| PUL-QC | Pulverizing QC Test |
| SPL-21 | Split sample - riffle splitter |
| PUL-31 | Pulverize split to 85% <75 um |

| ANALYTICAL PROCEDURES | | |
|-----------------------|---------------------------|------------|
| ALS CODE | DESCRIPTION | INSTRUMENT |
| PGM-ICP23 | Pt, Pd, Au 30g FA ICP | ICP-AES |
| Ag-AA45 | Trace Ag - aqua regia/AAS | AAS |
| ME-ICP81 | ICP Fusion - Ore Grade | ICP-AES |

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
 Total # Pages: 3 (A - B)
 Plus Appendix Pages
 Finalized Date: 21-OCT-2018
 Account: TTB

Project: 99421

QC CERTIFICATE OF ANALYSIS SD18249803

| Method Analyte Units LOD | ME-ICP81 Al2O3 % | ME-ICP81 As % | ME-ICP81 CaO % | ME-ICP81 Co % | ME-ICP81 Cr % | ME-ICP81 Cu % | ME-ICP81 Fe % | ME-ICP81 Fe2O3 % | ME-ICP81 K % | ME-ICP81 MgO % | ME-ICP81 MnO % | ME-ICP81 Ni % | ME-ICP81 Pb % | ME-ICP81 S % | ME-ICP81 SiO2 % |
|----------------------------|------------------|---------------|----------------|---------------|---------------|---------------|---------------|------------------|--------------|----------------|----------------|---------------|---------------|--------------|-----------------|
| Sample Description | 0.01 | 0.01 | 0.05 | 0.002 | 0.01 | 0.002 | 0.05 | 0.05 | 0.1 | 0.01 | 0.01 | 0.002 | 0.01 | 0.01 | 0.2 |
| STANDARDS | | | | | | | | | | | | | | | |
| AMIS0324 | 1.04 | 0.07 | 1.04 | 0.315 | 0.28 | 3.09 | 25.7 | 36.8 | 0.1 | 6.91 | 0.04 | 5.38 | 0.02 | 25.9 | 15.6 |
| Target Range - Lower Bound | 0.98 | 0.04 | 0.98 | 0.304 | 0.26 | 3.02 | 24.6 | 35.2 | <0.1 | 6.67 | 0.02 | 5.30 | <0.01 | 25.4 | 14.5 |
| Upper Bound | 1.15 | 0.09 | 1.23 | 0.341 | 0.32 | 3.34 | 28.4 | 40.6 | 0.3 | 7.69 | 0.06 | 5.87 | 0.05 | 29.2 | 17.1 |
| AMIS0486 | | | | | | | | | | | | | | | |
| Target Range - Lower Bound | | | | | | | | | | | | | | | |
| Upper Bound | | | | | | | | | | | | | | | |
| JK-17 | | | | | | | | | | | | | | | |
| Target Range - Lower Bound | | | | | | | | | | | | | | | |
| Upper Bound | | | | | | | | | | | | | | | |
| MRGeo08 | | | | | | | | | | | | | | | |
| Target Range - Lower Bound | | | | | | | | | | | | | | | |
| Upper Bound | | | | | | | | | | | | | | | |
| OREAS 503c | | | | | | | | | | | | | | | |
| Target Range - Lower Bound | | | | | | | | | | | | | | | |
| Upper Bound | | | | | | | | | | | | | | | |
| PK2 | | | | | | | | | | | | | | | |
| Target Range - Lower Bound | | | | | | | | | | | | | | | |
| Upper Bound | | | | | | | | | | | | | | | |
| SU-1b | 7.90 | <0.01 | 2.98 | 0.064 | 0.03 | 1.140 | 24.2 | 34.6 | 0.6 | 2.77 | 0.09 | 1.885 | <0.01 | 13.70 | 32.5 |
| Target Range - Lower Bound | 7.55 | <0.01 | 2.83 | 0.062 | <0.01 | 1.125 | 23.7 | 33.9 | 0.4 | 2.75 | 0.07 | 1.855 | <0.01 | 13.15 | 30.1 |
| Upper Bound | 8.70 | 0.02 | 3.36 | 0.073 | 0.05 | 1.245 | 27.4 | 39.1 | 0.8 | 3.19 | 0.11 | 2.05 | 0.03 | 15.15 | 35.1 |
| BLANKS | | | | | | | | | | | | | | | |
| BLANK | | | | | | | | | | | | | | | |
| Target Range - Lower Bound | | | | | | | | | | | | | | | |
| Upper Bound | | | | | | | | | | | | | | | |
| BLANK | <0.02 | 0.01 | <0.07 | <0.002 | <0.01 | <0.002 | <0.05 | 0.05 | <0.1 | <0.01 | <0.01 | <0.002 | <0.01 | <0.01 | <0.2 |
| Target Range - Lower Bound | <0.01 | <0.01 | <0.05 | <0.002 | <0.01 | <0.002 | <0.05 | <0.05 | <0.1 | <0.01 | <0.01 | <0.002 | <0.01 | <0.01 | <0.2 |
| Upper Bound | 0.02 | 0.02 | 0.11 | 0.004 | 0.02 | 0.004 | 0.10 | 0.10 | 0.2 | 0.02 | 0.02 | 0.004 | 0.02 | 0.02 | 0.6 |
| BLANK | | | | | | | | | | | | | | | |
| Target Range - Lower Bound | | | | | | | | | | | | | | | |
| Upper Bound | | | | | | | | | | | | | | | |

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Page: 2 - B
 Total # Pages: 3 (A - B)
 Plus Appendix Pages
 Finalized Date: 21-OCT-2018
 Account: TTB

Project: 99421

QC CERTIFICATE OF ANALYSIS SD18249803

| Sample Description | Method Analyte Units LOD | ME-ICP81 TiO2 % | ME-ICP81 Zn % | PGM-ICP23 Au ppm | PGM-ICP23 Pt ppm | PGM-ICP23 Pd ppm | Ag-AA45 Ag ppm |
|----------------------------|--------------------------|-----------------|---------------|------------------|------------------|------------------|----------------|
| | | 0.01 | 0.002 | 0.001 | 0.005 | 0.001 | 0.2 |
| STANDARDS | | | | | | | |
| AMIS0324 | | 0.08 | 0.038 | | | | |
| Target Range - Lower Bound | | 0.05 | 0.036 | | | | |
| Upper Bound | | 0.09 | 0.046 | | | | |
| AMIS0486 | | | | 0.243 | 2.48 | 1.395 | |
| Target Range - Lower Bound | | | | 0.215 | 2.23 | 1.285 | |
| Upper Bound | | | | 0.245 | 2.53 | 1.455 | |
| JK-17 | | | | 1.975 | <0.005 | 0.002 | |
| Target Range - Lower Bound | | | | 1.875 | | | |
| Upper Bound | | | | 2.12 | | | |
| MRGeo08 | | | | | | | 4.2 |
| Target Range - Lower Bound | | | | | | | 3.9 |
| Upper Bound | | | | | | | 5.0 |
| OREAS 503c | | | | 0.694 | <0.005 | 0.006 | |
| Target Range - Lower Bound | | | | | | | |
| Upper Bound | | | | | | | |
| PK2 | | | | 4.86 | 4.82 | 5.98 | |
| Target Range - Lower Bound | | | | 4.50 | 4.46 | 5.56 | |
| Upper Bound | | | | 5.07 | 5.04 | 6.27 | |
| SU-1b | | 0.37 | 0.023 | | | | |
| Target Range - Lower Bound | | 0.33 | 0.022 | | | | |
| Upper Bound | | 0.41 | 0.032 | | | | |
| BLANKS | | | | | | | |
| BLANK | | | | | | | <0.2 |
| Target Range - Lower Bound | | | | | | | <0.2 |
| Upper Bound | | | | | | | 0.4 |
| BLANK | | <0.01 | <0.002 | | | | |
| Target Range - Lower Bound | | <0.01 | <0.002 | | | | |
| Upper Bound | | 0.02 | 0.004 | | | | |
| BLANK | | | | 0.001 | <0.005 | <0.001 | |
| Target Range - Lower Bound | | | | <0.001 | <0.005 | <0.001 | |
| Upper Bound | | | | 0.002 | 0.010 | 0.002 | |



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 Total # Pages: 3 (A - B)
 Plus Appendix Pages
 Finalized Date: 21-OCT-2018
 Account: TTB

Project: 99421

QC CERTIFICATE OF ANALYSIS SD18249803

| Sample Description | Method Analyte Units LOD | ME-ICP81 Al2O3 % | ME-ICP81 As % | ME-ICP81 CaO % | ME-ICP81 Co % | ME-ICP81 Cr % | ME-ICP81 Cu % | ME-ICP81 Fe % | ME-ICP81 Fe2O3 % | ME-ICP81 K % | ME-ICP81 MgO % | ME-ICP81 MnO % | ME-ICP81 Ni % | ME-ICP81 Pb % | ME-ICP81 S % | ME-ICP81 SiO2 % |
|--|--------------------------|----------------------------------|------------------------------|----------------------------------|----------------------------------|---------------------------------|-----------------------------------|------------------------------|------------------------------|--------------------------|------------------------------|------------------------------|----------------------------------|---------------------------------|------------------------------|------------------------------|
| | | 0.01 | 0.01 | 0.05 | 0.002 | 0.01 | 0.002 | 0.05 | 0.05 | 0.1 | 0.01 | 0.01 | 0.002 | 0.01 | 0.01 | 0.2 |
| 18KRP615 DUP Target Range - Lower Bound Upper Bound | | DUPLICATES | | | | | | | | | | | | | | |
| 18MAP080 DUP Target Range - Lower Bound Upper Bound | | | | | | | | | | | | | | | | |
| 18KRP602 DUP Target Range - Lower Bound Upper Bound | | 13.10 12.85 12.50 13.45 | 0.04 0.03 0.02 0.05 | 12.60 12.35 11.95 13.00 | 0.031 0.030 0.028 0.033 | <0.01 <0.01 <0.01 0.02 | 0.004 0.005 <0.002 0.007 | 2.30 2.21 2.12 2.39 | 3.28 3.16 3.05 3.39 | 0.4 0.4 0.3 0.5 | 3.11 3.01 2.94 3.18 | 0.70 0.68 0.65 0.73 | 0.010 0.011 0.008 0.013 | <0.01 <0.01 <0.01 0.02 | 0.26 0.29 0.25 0.30 | 46.8 46.0 44.5 48.3 |
| ORIGINAL DUP Target Range - Lower Bound Upper Bound | | | | | | | | | | | | | | | | |

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



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Page: 3 - B
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QC CERTIFICATE OF ANALYSIS SD18249803

| Sample Description | Method Analyte Units LOD | ME-ICP81 TiO2 % | ME-ICP81 Zn % | PGM-ICP23 Au ppm | PGM-ICP23 Pt ppm | PGM-ICP23 Pd ppm | Ag-AA45 Ag ppm |
|----------------------------|--------------------------|-----------------------|---------------------|------------------------|------------------------|------------------------|----------------------|
| | | 0.01 | 0.002 | 0.001 | 0.005 | 0.001 | 0.2 |
| DUPLICATES | | | | | | | |
| 18KRP615 | | | | | | | <0.2 |
| DUP | | | | | | | <0.2 |
| Target Range - Lower Bound | | | | | | | <0.2 |
| Upper Bound | | | | | | | 0.4 |
| 18MAP080 | | | | <0.001 | <0.005 | 0.001 | |
| DUP | | | | <0.001 | <0.005 | <0.001 | |
| Target Range - Lower Bound | | | | <0.001 | <0.005 | <0.001 | |
| Upper Bound | | | | 0.002 | 0.010 | 0.002 | |
| 18KRP602 | | 0.68 | <0.002 | | | | |
| DUP | | 0.64 | <0.002 | | | | |
| Target Range - Lower Bound | | 0.63 | <0.002 | | | | |
| Upper Bound | | 0.69 | 0.004 | | | | |
| ORIGINAL | | | | 0.178 | 0.192 | 0.740 | |
| DUP | | | | 0.203 | 0.188 | 0.718 | |
| Target Range - Lower Bound | | | | 0.180 | 0.176 | 0.692 | |
| Upper Bound | | | | 0.201 | 0.205 | 0.766 | |

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Page: Appendix 1
 Total # Appendix Pages: 1
 Finalized Date: 21-OCT-2018
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QC CERTIFICATE OF ANALYSIS SD18249803

| CERTIFICATE COMMENTS | | | | | | | | | |
|----------------------|--|-----------|----------|-----------|--------|--------|--------|--------|--|
| | LABORATORY ADDRESSES | | | | | | | | |
| Applies to Method: | <p>Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.</p> <table border="0"> <tr> <td>CRU-31</td> <td>CRU-QC</td> <td>LOG-22</td> <td>PUL-31</td> </tr> <tr> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> <td></td> </tr> </table> | CRU-31 | CRU-QC | LOG-22 | PUL-31 | PUL-QC | SPL-21 | WEI-21 | |
| CRU-31 | CRU-QC | LOG-22 | PUL-31 | | | | | | |
| PUL-QC | SPL-21 | WEI-21 | | | | | | | |
| Applies to Method: | <p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table border="0"> <tr> <td>Ag-AA45</td> <td>ME-ICP81</td> <td>PGM-ICP23</td> <td></td> </tr> </table> | Ag-AA45 | ME-ICP81 | PGM-ICP23 | | | | | |
| Ag-AA45 | ME-ICP81 | PGM-ICP23 | | | | | | | |



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Page: 1
 Total # Pages: 10 (A)
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 This copy reported on
 21-JAN-2019
 Account: CCCOQZOS

CERTIFICATE SD19009890

Project: 99421

This report is for 342 Drill Core samples submitted to our lab in Sudbury, ON, Canada on 17-DEC-2018.

The following have access to data associated with this certificate:

| | | |
|----------|------------|-------------|
| SETH KAY | JIM NELSON | KRIS RAFFLE |
|----------|------------|-------------|

| SAMPLE PREPARATION | |
|--------------------|--------------------------------|
| ALS CODE | DESCRIPTION |
| WEI-21 | Received Sample Weight |
| LOG-22 | Sample login - Rcd w/o BarCode |
| CRU-31 | Fine crushing - 70% <2mm |
| CRU-QC | Crushing QC Test |
| PUL-QC | Pulverizing QC Test |
| SPL-21 | Split sample - riffle splitter |
| PUL-31 | Pulverize split to 85% <75 um |
| LOG-23 | Pulp Login - Rcvd with Barcode |

| ANALYTICAL PROCEDURES | | |
|-----------------------|---------------------------|------------|
| ALS CODE | DESCRIPTION | INSTRUMENT |
| PGM-ICP23 | Pt, Pd, Au 30g FA ICP | ICP-AES |
| Aq-AA45 | Trace Ag - aqua regia/AAS | AAS |
| ME-ICP81 | ICP Fusion - Ore Grade | ICP-AES |

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS SD19009890

| Sample Description | Method Analyte Units LOD | WEI-21 | ME-ICP81 | ME-ICP81 | ME-ICP81 | PGM-ICP23 | PGM-ICP23 | PGM-ICP23 | Ag-AA45 | CRU-QC | PUL-QC |
|--------------------|--------------------------|--------------|----------|----------|----------|-----------|-----------|-----------|---------|-----------|------------|
| | | Recvd Wt. kg | Co % | Cu % | Ni % | Au ppm | Pt ppm | Pd ppm | Ag ppm | Pass2mm % | Pass75um % |
| | | 0.02 | 0.002 | 0.002 | 0.002 | 0.001 | 0.005 | 0.001 | 0.2 | 0.01 | 0.01 |
| S886001 | | 4.62 | 0.009 | 0.015 | 0.006 | <0.001 | <0.005 | <0.001 | <0.2 | 71.6 | 90.7 |
| S886002 | | 4.44 | 0.007 | 0.012 | 0.004 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886003 | | 4.85 | 0.004 | 0.012 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886004 | | 5.02 | 0.006 | 0.011 | 0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886005 | | <0.02 | 0.097 | 0.303 | 0.017 | NSS | NSS | NSS | 0.2 | | |
| S886006 | | 2.59 | 0.007 | 0.013 | 0.002 | <0.001 | <0.005 | <0.001 | 0.2 | | |
| S886007 | | 4.88 | 0.007 | 0.016 | 0.002 | <0.001 | <0.005 | <0.001 | 0.2 | | |
| S886008 | | 4.87 | 0.006 | 0.007 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886009 | | 2.40 | 0.006 | 0.006 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886010 | | 0.12 | <0.002 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886011 | | 2.72 | 0.005 | 0.004 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886012 | | 2.30 | 0.007 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886013 | | 2.56 | 0.008 | 0.004 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886014 | | 2.10 | 0.011 | 0.002 | 0.006 | 0.003 | <0.005 | <0.001 | <0.2 | | |
| S886015 | | 2.24 | 0.006 | 0.003 | 0.006 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886016 | | 1.07 | 0.005 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886017 | | 1.07 | 0.006 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886018 | | 2.41 | 0.003 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886019 | | 2.10 | 0.005 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | 0.4 | | |
| S886020 | | 2.14 | 0.007 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886021 | | 4.25 | 0.003 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886022 | | 3.96 | 0.006 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886023 | | 2.13 | 0.002 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886024 | | 2.10 | 0.003 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886025 | | <0.02 | 0.100 | 0.306 | 0.013 | 0.039 | <0.005 | <0.001 | <0.2 | | |
| S886026 | | 2.54 | 0.007 | <0.002 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886027 | | 4.28 | 0.004 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886028 | | 3.39 | 0.003 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886029 | | 4.59 | 0.002 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886030 | | 0.13 | 0.002 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886031 | | 2.40 | 0.004 | <0.002 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886032 | | 2.15 | 0.002 | 0.009 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886033 | | 2.18 | 0.004 | 0.003 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886034 | | 2.31 | 0.003 | 0.005 | <0.002 | <0.001 | <0.005 | <0.001 | 0.3 | | |
| S886035 | | 2.40 | 0.005 | 0.007 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886036 | | 2.14 | 0.002 | 0.005 | 0.003 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886037 | | 2.11 | <0.002 | 0.004 | 0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886038 | | 4.90 | 0.002 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886039 | | 2.76 | <0.002 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886040 | | 2.08 | 0.006 | 0.011 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | 75.8 | 93.0 |



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CERTIFICATE OF ANALYSIS SD19009890

| Sample Description | Method Analyte Units LOD | WEI-21 | ME-ICP81 | ME-ICP81 | ME-ICP81 | PGM-ICP23 | PGM-ICP23 | PGM-ICP23 | Ag-AA45 | CRU-QC | PUL-QC |
|--------------------|--------------------------|--------------|----------|----------|----------|-----------|-----------|-----------|---------|-----------|------------|
| | | Recvd Wt. kg | Co % | Cu % | Ni % | Au ppm | Pt ppm | Pd ppm | Ag ppm | Pass2mm % | Pass75um % |
| | | 0.02 | 0.002 | 0.002 | 0.002 | 0.001 | 0.005 | 0.001 | 0.2 | 0.01 | 0.01 |
| S886041 | | 2.45 | <0.002 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886042 | | 2.42 | <0.002 | 0.006 | 0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886043 | | 4.64 | <0.002 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886044 | | 4.76 | 0.005 | 0.002 | 0.004 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886045 | | <0.02 | 0.097 | 0.312 | 0.019 | 0.049 | <0.005 | 0.003 | 0.3 | | |
| S886046 | | 2.03 | <0.002 | 0.019 | 0.003 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886047 | | 2.65 | <0.002 | 0.010 | 0.005 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886048 | | 4.78 | 0.003 | 0.003 | <0.002 | <0.001 | <0.005 | 0.002 | <0.2 | | |
| S886049 | | 1.17 | 0.004 | 0.017 | 0.005 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886050 | | 1.23 | 0.006 | 0.010 | 0.005 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886051 | | 4.54 | 0.004 | 0.011 | 0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886052 | | 2.62 | 0.003 | 0.013 | <0.002 | <0.001 | 0.008 | 0.001 | <0.2 | | |
| S886053 | | 2.53 | 0.002 | 0.012 | 0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886054 | | 2.15 | 0.003 | 0.005 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886055 | | 1.17 | 0.003 | 0.006 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886056 | | 1.17 | 0.005 | 0.005 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886057 | | 2.11 | 0.006 | 0.004 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886058 | | 2.25 | 0.005 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886059 | | 2.07 | 0.003 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886060 | | 2.47 | 0.004 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886061 | | 2.12 | 0.006 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886062 | | 2.67 | 0.004 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886063 | | 2.26 | 0.003 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886064 | | 2.18 | 0.005 | 0.002 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886065 | | <0.02 | 0.103 | 0.308 | 0.019 | 0.035 | 0.018 | 0.001 | 0.3 | | |
| S886066 | | 2.45 | 0.004 | 0.005 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886067 | | 2.20 | 0.003 | 0.005 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886068 | | 2.22 | 0.004 | 0.004 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886069 | | 2.54 | 0.003 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886070 | | 0.13 | <0.002 | <0.002 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886071 | | 2.38 | 0.003 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886072 | | 4.67 | <0.002 | 0.002 | <0.002 | 0.004 | <0.005 | <0.001 | <0.2 | | |
| S886073 | | 0.98 | 0.002 | 0.009 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886074 | | 1.79 | 0.005 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886075 | | 1.67 | 0.003 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886076 | | 2.32 | <0.002 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886077 | | 2.27 | 0.003 | <0.002 | <0.002 | <0.001 | <0.005 | 0.002 | <0.2 | | |
| S886078 | | 2.27 | 0.005 | <0.002 | 0.006 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886079 | | 2.34 | 0.005 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886080 | | 0.16 | <0.002 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |



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|--------------------|--------------------------|--------------|----------|----------|----------|-----------|-----------|-----------|---------|-----------|------------|
| | | Recvd Wt. kg | Co % | Cu % | Ni % | Au ppm | Pt ppm | Pd ppm | Ag ppm | Pass2mm % | Pass75um % |
| | | 0.02 | 0.002 | 0.002 | 0.002 | 0.001 | 0.005 | 0.001 | 0.2 | 0.01 | 0.01 |
| S886081 | | 2.18 | 0.004 | 0.003 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | 75.3 | 85.0 |
| S886082 | | 2.41 | 0.003 | 0.009 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886083 | | 4.47 | 0.005 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886084 | | 2.35 | 0.005 | 0.005 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886085 | | <0.02 | 0.105 | 0.307 | 0.017 | 0.035 | <0.005 | 0.006 | 0.2 | | |
| S886086 | | 2.26 | 0.006 | 0.004 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886087 | | 2.40 | 0.006 | 0.004 | 0.020 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886088 | | 2.55 | 0.031 | 0.006 | 0.005 | 0.002 | <0.005 | <0.001 | <0.2 | | |
| S886089 | | 5.35 | 0.011 | 0.011 | 0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886090 | | 0.13 | <0.002 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886091 | | 1.77 | 0.013 | 0.015 | 0.003 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886092 | | 1.38 | 0.007 | 0.016 | 0.004 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886093 | | 2.68 | 0.003 | 0.016 | 0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886094 | | 2.34 | 0.002 | 0.017 | 0.006 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886095 | | 2.25 | 0.005 | 0.015 | 0.005 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886096 | | 2.59 | 0.004 | 0.013 | 0.003 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886097 | | 2.62 | 0.002 | 0.014 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886098 | | 2.58 | 0.003 | 0.006 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886099 | | 2.67 | <0.002 | 0.006 | 0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886100 | | 2.38 | 0.003 | 0.005 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886101 | | 2.51 | 0.002 | 0.007 | <0.002 | 0.001 | <0.005 | 0.001 | <0.2 | 84.7 | |
| S886102 | | 2.33 | 0.003 | 0.002 | <0.002 | 0.001 | <0.005 | <0.001 | <0.2 | | |
| S886103 | | 2.50 | <0.002 | 0.002 | 0.004 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886104 | | 2.48 | 0.003 | 0.002 | <0.002 | 0.004 | <0.005 | 0.001 | <0.2 | | |
| S886105 | | <0.02 | 0.096 | 0.298 | 0.016 | 0.055 | <0.005 | 0.007 | 0.2 | | |
| S886106 | | 2.20 | <0.002 | 0.003 | <0.002 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886107 | | 2.40 | 0.002 | <0.002 | 0.003 | 0.001 | <0.005 | <0.001 | <0.2 | | |
| S886108 | | 2.24 | <0.002 | 0.002 | 0.002 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886109 | | 2.05 | 0.003 | 0.002 | 0.005 | 0.002 | <0.005 | 0.001 | <0.2 | | |
| S886110 | | 1.77 | <0.002 | 0.007 | <0.002 | <0.001 | <0.005 | 0.001 | 0.2 | | |
| S886111 | | 2.49 | <0.002 | 0.002 | 0.003 | <0.001 | <0.005 | 0.001 | 0.2 | | |
| S886112 | | 2.45 | <0.002 | 0.003 | 0.003 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886113 | | 2.20 | 0.002 | 0.006 | <0.002 | 0.002 | <0.005 | 0.001 | <0.2 | | |
| S886114 | | 2.11 | <0.002 | 0.002 | 0.002 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886115 | | 1.14 | <0.002 | 0.002 | 0.002 | 0.002 | <0.005 | <0.001 | <0.2 | | |
| S886116 | | 1.51 | <0.002 | 0.002 | <0.002 | 0.002 | <0.005 | <0.001 | <0.2 | | |
| S886117 | | 2.45 | <0.002 | 0.008 | 0.003 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886118 | | 2.69 | <0.002 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886119 | | 2.56 | <0.002 | <0.002 | 0.003 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886120 | | 2.13 | <0.002 | 0.002 | 0.005 | <0.001 | <0.005 | 0.002 | <0.2 | 82.6 | 91.7 |



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Page: 5 - A
 Total # Pages: 10 (A)
 Plus Appendix Pages
 Finalized Date: 15-JAN-2019
 Account: CCCOQZOS

Project: 99421

CERTIFICATE OF ANALYSIS SD19009890

| Sample Description | Method Analyte Units LOD | WEI-21 | ME-ICP81 | ME-ICP81 | ME-ICP81 | PGM-ICP23 | PGM-ICP23 | PGM-ICP23 | Ag-AA45 | CRU-QC | PUL-QC |
|--------------------|--------------------------|--------------|----------|----------|----------|-----------|-----------|-----------|---------|-----------|------------|
| | | Recvd Wt. kg | Co % | Cu % | Ni % | Au ppm | Pt ppm | Pd ppm | Ag ppm | Pass2mm % | Pass75um % |
| | | 0.02 | 0.002 | 0.002 | 0.002 | 0.001 | 0.005 | 0.001 | 0.2 | 0.01 | 0.01 |
| S886121 | | 2.46 | 0.002 | <0.002 | <0.002 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886122 | | 2.26 | <0.002 | 0.003 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886123 | | 2.20 | 0.002 | 0.003 | <0.002 | 0.001 | <0.005 | 0.003 | <0.2 | | |
| S886124 | | 2.48 | <0.002 | 0.003 | 0.003 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886125 | | <0.02 | 0.098 | 0.299 | 0.019 | 0.050 | <0.005 | 0.008 | 0.2 | | |
| S886126 | | 2.19 | 0.002 | 0.002 | <0.002 | 0.002 | <0.005 | 0.001 | <0.2 | | |
| S886127 | | 2.26 | <0.002 | 0.003 | <0.002 | 0.001 | <0.005 | <0.001 | <0.2 | | |
| S886128 | | 2.34 | 0.002 | 0.002 | 0.003 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886129 | | 4.64 | 0.003 | 0.002 | 0.004 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886130 | | 0.15 | <0.002 | <0.002 | 0.003 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886131 | | 2.58 | 0.002 | 0.004 | 0.005 | <0.001 | <0.005 | 0.001 | <0.2 | 73.8 | |
| S886132 | | 1.29 | 0.013 | 0.024 | <0.002 | 0.005 | <0.005 | 0.001 | <0.2 | | |
| S886133 | | 2.78 | 0.009 | 0.023 | 0.005 | 0.001 | <0.005 | 0.002 | <0.2 | | |
| S886134 | | 2.70 | 0.009 | 0.037 | 0.002 | 0.001 | <0.005 | 0.002 | <0.2 | | |
| S886135 | | 1.13 | 0.005 | 0.017 | 0.007 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886136 | | 1.20 | <0.002 | 0.016 | 0.008 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886137 | | 2.33 | 0.004 | 0.007 | 0.002 | 0.001 | <0.005 | <0.001 | <0.2 | | |
| S886138 | | 2.12 | 0.003 | 0.006 | 0.002 | 0.002 | <0.005 | 0.001 | <0.2 | | |
| S886139 | | 2.47 | 0.004 | 0.007 | 0.002 | 0.001 | <0.005 | <0.001 | <0.2 | | |
| S886140 | | 0.12 | <0.002 | <0.002 | 0.003 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886141 | | 2.26 | 0.004 | 0.005 | 0.003 | 0.002 | <0.005 | 0.001 | <0.2 | | |
| S886142 | | 2.31 | 0.002 | 0.004 | 0.002 | 0.001 | <0.005 | <0.001 | <0.2 | | |
| S886143 | | 2.33 | <0.002 | 0.003 | <0.002 | 0.002 | <0.005 | <0.001 | <0.2 | | |
| S886144 | | 2.14 | 0.006 | 0.002 | 0.003 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886145 | | <0.02 | 0.098 | 0.300 | 0.019 | 0.045 | <0.005 | 0.005 | <0.2 | | |
| S886146 | | 5.03 | 0.002 | <0.002 | <0.002 | 0.002 | <0.005 | <0.001 | <0.2 | | |
| S886147 | | 2.15 | <0.002 | <0.002 | <0.002 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886148 | | 2.16 | 0.003 | <0.002 | 0.003 | 0.002 | <0.005 | 0.002 | <0.2 | | |
| S886149 | | 2.33 | 0.004 | 0.003 | 0.002 | 0.008 | <0.005 | 0.001 | 0.3 | | |
| S886150 | | 0.15 | <0.002 | <0.002 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886151 | | 2.38 | <0.002 | <0.002 | 0.002 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886152 | | 2.17 | 0.003 | 0.006 | 0.003 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886153 | | 2.14 | <0.002 | <0.002 | <0.002 | 0.001 | <0.005 | 0.001 | <0.2 | 89.8 | |
| S886154 | | 1.14 | 0.005 | <0.002 | 0.002 | 0.001 | <0.005 | 0.002 | <0.2 | | |
| S886155 | | 1.01 | 0.003 | <0.002 | 0.003 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886156 | | 2.04 | <0.002 | <0.002 | 0.003 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886157 | | 2.15 | 0.002 | 0.004 | 0.002 | <0.001 | <0.005 | 0.002 | <0.2 | | |
| S886158 | | 3.82 | 0.003 | <0.002 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886159 | | 3.69 | 0.004 | 0.004 | 0.003 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886160 | | 2.47 | 0.007 | 0.005 | 0.004 | 0.004 | <0.005 | 0.001 | <0.2 | 71.1 | 85.3 |



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Page: 6 - A
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CERTIFICATE OF ANALYSIS SD19009890

| Sample Description | Method | WEI-21 | ME-ICP81 | ME-ICP81 | ME-ICP81 | PGM-ICP23 | PGM-ICP23 | PGM-ICP23 | Ag-AA45 | CRU-QC | PUL-QC |
|--------------------|-------------------------|-----------------|----------|----------|----------|-----------|-----------|-----------|-----------|--------------|---------------|
| | Analyte Units LOD | Recvd Wt. kg | Co % | Cu % | Ni % | Au ppm | Pt ppm | Pd ppm | Ag ppm | Pass2mm % | Pass75um % |
| | | 0.02 | 0.002 | 0.002 | 0.002 | 0.001 | 0.005 | 0.001 | 0.2 | 0.01 | 0.01 |
| S886161 | | 2.46 | 0.002 | 0.004 | 0.004 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886162 | | 4.69 | 0.003 | 0.002 | 0.003 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886163 | | 2.54 | 0.006 | 0.005 | 0.004 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886164 | | 1.14 | 0.007 | 0.012 | 0.005 | 0.002 | <0.005 | <0.001 | <0.2 | | |
| S886165 | | <0.02 | 0.098 | 0.302 | 0.019 | 0.059 | <0.005 | 0.007 | 0.2 | | |
| S886166 | | 2.42 | 0.008 | 0.041 | 0.009 | 0.001 | <0.005 | 0.002 | 0.3 | | |
| S886167 | | 4.87 | 0.007 | 0.005 | 0.013 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886168 | | 2.32 | 0.004 | 0.004 | 0.004 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886169 | | 2.50 | 0.002 | 0.006 | 0.005 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886170 | | 0.15 | <0.002 | <0.002 | 0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886171 | | 2.34 | 0.005 | 0.003 | 0.003 | 0.001 | <0.005 | 0.002 | <0.2 | | |
| S886172 | | 2.23 | 0.004 | 0.002 | <0.002 | 0.001 | <0.005 | <0.001 | <0.2 | | |
| S886173 | | 2.26 | 0.005 | 0.002 | 0.003 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886174 | | 1.06 | 0.006 | 0.003 | 0.005 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886175 | | 1.00 | 0.002 | 0.002 | <0.002 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886176 | | 2.43 | 0.004 | <0.002 | 0.002 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886177 | | 2.30 | 0.002 | 0.002 | 0.002 | 0.001 | <0.005 | <0.001 | <0.2 | | |
| S886178 | | 2.20 | 0.003 | 0.002 | 0.004 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886179 | | 2.23 | 0.003 | 0.002 | 0.002 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886180 | | 4.46 | 0.002 | <0.002 | 0.004 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886181 | | 2.27 | <0.002 | 0.002 | 0.006 | 0.001 | <0.005 | 0.001 | 0.3 | | |
| S886182 | | 2.21 | <0.002 | 0.008 | 0.004 | 0.002 | <0.005 | 0.001 | <0.2 | | |
| S886183 | | 2.23 | 0.003 | 0.010 | 0.006 | 0.003 | <0.005 | 0.001 | <0.2 | | |
| S886184 | | 2.35 | <0.002 | <0.002 | 0.002 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886185 | | <0.02 | 0.097 | 0.302 | 0.022 | 0.045 | <0.005 | 0.007 | 0.2 | | |
| S886186 | | 1.78 | <0.002 | 0.005 | 0.003 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886187 | | 0.94 | 0.004 | 0.023 | 0.003 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886188 | | 3.79 | 0.005 | 0.002 | 0.004 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886189 | | 2.22 | <0.002 | 0.002 | 0.002 | <0.001 | <0.005 | 0.002 | <0.2 | | |
| S886190 | | 0.16 | <0.002 | <0.002 | 0.004 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886191 | | 2.30 | 0.003 | 0.009 | 0.002 | <0.001 | <0.005 | 0.001 | 0.2 | | |
| S886192 | | 2.36 | 0.002 | 0.002 | 0.002 | 0.001 | <0.005 | 0.002 | <0.2 | | |
| S886193 | | 2.28 | <0.002 | 0.006 | <0.002 | 0.002 | <0.005 | 0.001 | <0.2 | | |
| S886194 | | 1.05 | 0.005 | 0.002 | <0.002 | 0.003 | <0.005 | 0.001 | 0.2 | | |
| S886195 | | 1.04 | 0.007 | 0.004 | 0.004 | 0.003 | <0.005 | 0.001 | 0.3 | | |
| S886196 | | 2.28 | 0.004 | 0.002 | 0.002 | 0.003 | <0.005 | 0.001 | 0.3 | | |
| S886197 | | 2.23 | 0.003 | 0.002 | 0.003 | 0.005 | <0.005 | 0.001 | 0.3 | | |
| S886198 | | 2.13 | 0.005 | 0.004 | 0.003 | 0.002 | <0.005 | 0.001 | <0.2 | 83.7 | |
| S886199 | | 1.12 | 0.006 | 0.013 | 0.003 | 0.005 | <0.005 | 0.001 | <0.2 | | |
| S886200 | | 1.12 | 0.003 | 0.005 | 0.004 | <0.001 | <0.005 | 0.001 | <0.2 | 86.2 | 88.9 |



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Page: 7 - A
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| Sample Description | Method Analyte Units LOD | WEI-21 | ME-ICP81 | ME-ICP81 | ME-ICP81 | PGM-ICP23 | PGM-ICP23 | PGM-ICP23 | Ag-AA45 | CRU-QC | PUL-QC |
|--------------------|--------------------------|--------------|----------|----------|----------|-----------|-----------|-----------|---------|-----------|------------|
| | | Recvd Wt. kg | Co % | Cu % | Ni % | Au ppm | Pt ppm | Pd ppm | Ag ppm | Pass2mm % | Pass75um % |
| | | 0.02 | 0.002 | 0.002 | 0.002 | 0.001 | 0.005 | 0.001 | 0.2 | 0.01 | 0.01 |
| S886201 | | 1.15 | 0.004 | 0.019 | 0.004 | 0.003 | <0.005 | 0.001 | <0.2 | | 99.4 |
| S886202 | | 1.53 | 0.004 | 0.011 | 0.002 | 0.001 | <0.005 | 0.001 | <0.2 | | 96.9 |
| S886203 | | 5.16 | 0.005 | 0.021 | 0.002 | 0.005 | <0.005 | <0.001 | <0.2 | | |
| S886204 | | 2.35 | 0.002 | 0.016 | <0.002 | 0.001 | <0.005 | <0.001 | 0.2 | | |
| S886205 | | <0.02 | 0.095 | 0.297 | 0.019 | 0.045 | <0.005 | <0.001 | 0.2 | | |
| S886206 | | 2.41 | 0.003 | 0.012 | 0.004 | 0.002 | <0.005 | 0.001 | <0.2 | | |
| S886207 | | 2.71 | 0.006 | 0.011 | <0.002 | 0.001 | <0.005 | <0.001 | 0.3 | | |
| S886208 | | 2.09 | 0.002 | 0.003 | <0.002 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886209 | | 2.32 | 0.003 | 0.005 | 0.004 | 0.001 | <0.005 | <0.001 | <0.2 | | |
| S886210 | | 0.15 | <0.002 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886211 | | 2.35 | <0.002 | 0.004 | <0.002 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886212 | | 2.35 | <0.002 | 0.002 | <0.002 | <0.001 | <0.005 | 0.001 | 0.2 | | |
| S886213 | | 2.35 | <0.002 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | 0.2 | | |
| S886214 | | 1.92 | <0.002 | <0.002 | 0.002 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886215 | | 2.16 | <0.002 | <0.002 | <0.002 | 0.001 | <0.005 | 0.001 | 0.2 | | |
| S886216 | | 2.36 | <0.002 | <0.002 | 0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886217 | | 2.28 | <0.002 | <0.002 | <0.002 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886218 | | 2.31 | <0.002 | <0.002 | 0.004 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886219 | | 1.14 | <0.002 | <0.002 | 0.003 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886220 | | 1.15 | <0.002 | <0.002 | 0.004 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886221 | | 2.42 | <0.002 | 0.004 | <0.002 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886222 | | 2.01 | 0.005 | 0.065 | 0.004 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886223 | | 2.44 | 0.002 | 0.009 | 0.004 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886224 | | 2.44 | <0.002 | 0.002 | <0.002 | <0.001 | <0.005 | 0.002 | <0.2 | | |
| S886225 | | <0.02 | 0.097 | 0.301 | 0.018 | 0.043 | <0.005 | 0.008 | 0.3 | | |
| S886226 | | 1.36 | 0.004 | 0.010 | 0.003 | 0.001 | <0.005 | 0.002 | <0.2 | | |
| S886227 | | 2.51 | 0.003 | 0.013 | 0.003 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886228 | | 1.15 | 0.004 | 0.011 | 0.005 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886229 | | 1.66 | 0.005 | 0.013 | 0.005 | 0.002 | <0.005 | <0.001 | <0.2 | | |
| S886230 | | 0.13 | <0.002 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886231 | | 1.20 | 0.003 | 0.011 | 0.004 | 0.001 | <0.005 | <0.001 | <0.2 | | |
| S886232 | | 2.38 | 0.005 | 0.004 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886233 | | 2.44 | 0.002 | 0.002 | 0.002 | 0.001 | <0.005 | <0.001 | <0.2 | | |
| S886234 | | 1.09 | <0.002 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886235 | | 1.12 | 0.002 | <0.002 | <0.002 | 0.001 | <0.005 | <0.001 | 0.2 | | |
| S886236 | | 2.50 | 0.004 | 0.003 | <0.002 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886237 | | 2.48 | 0.003 | 0.002 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886238 | | 2.49 | 0.006 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886239 | | 2.45 | 0.003 | 0.003 | <0.002 | 0.001 | <0.005 | <0.001 | <0.2 | | |
| S886240 | | 2.41 | 0.003 | 0.005 | <0.002 | 0.001 | <0.005 | 0.001 | <0.2 | 83.4 | 98.0 |



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Page: 8 - A
 Total # Pages: 10 (A)
 Plus Appendix Pages
 Finalized Date: 15-JAN-2019
 Account: CCCOQZOS

Project: 99421

CERTIFICATE OF ANALYSIS SD19009890

| Sample Description | Method Analyte Units LOD | WEI-21 | ME-ICP81 | ME-ICP81 | ME-ICP81 | PGM-ICP23 | PGM-ICP23 | PGM-ICP23 | Ag-AA45 | CRU-QC | PUL-QC |
|--------------------|--------------------------|--------------|----------|----------|----------|-----------|-----------|-----------|---------|-----------|------------|
| | | Recvd Wt. kg | Co % | Cu % | Ni % | Au ppm | Pt ppm | Pd ppm | Ag ppm | Pass2mm % | Pass75um % |
| | | 0.02 | 0.002 | 0.002 | 0.002 | 0.001 | 0.005 | 0.001 | 0.2 | 0.01 | 0.01 |
| S886241 | | 2.34 | 0.003 | 0.004 | 0.002 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886242 | | 2.46 | 0.002 | 0.003 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886243 | | 2.31 | <0.002 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886244 | | 2.22 | <0.002 | <0.002 | <0.002 | 0.002 | <0.005 | 0.001 | <0.2 | | |
| S886245 | | <0.02 | 0.098 | 0.298 | 0.016 | 0.046 | <0.005 | 0.003 | 0.3 | | |
| S886246 | | 2.21 | 0.004 | <0.002 | <0.002 | 0.001 | <0.005 | <0.001 | 0.3 | | |
| S886247 | | 2.24 | <0.002 | <0.002 | <0.002 | 0.001 | <0.005 | 0.001 | 0.2 | | |
| S886248 | | 4.57 | <0.002 | 0.002 | <0.002 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886249 | | 4.51 | <0.002 | 0.003 | <0.002 | 0.001 | <0.005 | 0.002 | <0.2 | | |
| S886250 | | 2.30 | <0.002 | 0.007 | <0.002 | 0.003 | <0.005 | <0.001 | <0.2 | | |
| S886251 | | 2.31 | 0.004 | 0.011 | <0.002 | 0.002 | <0.005 | 0.001 | <0.2 | | |
| S886252 | | 4.64 | <0.002 | 0.005 | <0.002 | 0.001 | <0.005 | 0.001 | <0.2 | | |
| S886253 | | 2.23 | 0.006 | 0.002 | 0.004 | 0.010 | <0.005 | <0.001 | 0.3 | | |
| S886254 | | 1.94 | <0.002 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | 0.3 | | |
| S886255 | | 1.04 | <0.002 | 0.004 | <0.002 | <0.001 | <0.005 | <0.001 | 0.2 | | |
| S886256 | | 1.08 | 0.004 | 0.004 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886257 | | 2.78 | <0.002 | 0.007 | 0.002 | <0.001 | <0.005 | <0.001 | 0.2 | | |
| S886258 | | 1.24 | 0.002 | 0.002 | <0.002 | <0.001 | <0.005 | 0.001 | 0.2 | | |
| S886259 | | 4.71 | 0.004 | 0.007 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886260 | | 0.14 | <0.002 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886261 | | 2.35 | 0.004 | 0.003 | 0.002 | <0.001 | <0.005 | <0.001 | 0.2 | | |
| S886262 | | 2.37 | 0.006 | 0.004 | 0.005 | 0.037 | <0.005 | <0.001 | 1.3 | | |
| S886263 | | 2.22 | 0.002 | 0.005 | 0.006 | <0.001 | <0.005 | <0.001 | 0.4 | | |
| S886264 | | 2.29 | 0.002 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | 0.3 | | |
| S886265 | | <0.02 | 0.098 | 0.307 | 0.016 | 0.032 | <0.005 | <0.001 | 0.3 | | |
| S886266 | | 2.37 | 0.003 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886267 | | 2.31 | 0.003 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886268 | | 2.33 | 0.003 | 0.004 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886269 | | 2.20 | <0.002 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886270 | | 2.87 | 0.003 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886271 | | 2.37 | <0.002 | 0.004 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886272 | | 2.38 | <0.002 | 0.016 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886273 | | 1.39 | 0.011 | 0.009 | 0.003 | <0.001 | <0.005 | <0.001 | <0.2 | 72.1 | |
| S886274 | | 1.77 | 0.008 | 0.007 | 0.003 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886275 | | 2.29 | 0.010 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886276 | | 2.12 | <0.002 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886277 | | 2.20 | <0.002 | 0.004 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886278 | | 2.22 | <0.002 | 0.050 | <0.002 | <0.001 | <0.005 | 0.001 | 0.3 | | |
| S886279 | | 2.05 | <0.002 | 0.007 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886280 | | 1.88 | <0.002 | 0.008 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | 74.2 | 89.0 |



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Page: 9 - A
 Total # Pages: 10 (A)
 Plus Appendix Pages
 Finalized Date: 15-JAN-2019
 Account: CCCOQZOS

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CERTIFICATE OF ANALYSIS SD19009890

| Sample Description | Method Analyte Units LOD | WEI-21 | ME-ICP81 | ME-ICP81 | ME-ICP81 | PGM-ICP23 | PGM-ICP23 | PGM-ICP23 | Ag-AA45 | CRU-QC | PUL-QC |
|--------------------|--------------------------|--------------|----------|----------|----------|-----------|-----------|-----------|---------|-----------|------------|
| | | Recvd Wt. kg | Co % | Cu % | Ni % | Au ppm | Pt ppm | Pd ppm | Ag ppm | Pass2mm % | Pass75um % |
| | | 0.02 | 0.002 | 0.002 | 0.002 | 0.001 | 0.005 | 0.001 | 0.2 | 0.01 | 0.01 |
| S886281 | | 1.23 | <0.002 | 0.017 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886282 | | 1.11 | <0.002 | 0.023 | <0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886283 | | 3.92 | 0.005 | 0.005 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886284 | | 4.28 | 0.004 | 0.005 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886285 | | <0.02 | 0.098 | 0.306 | 0.013 | 0.041 | <0.005 | 0.003 | 0.2 | | |
| S886286 | | 2.47 | 0.003 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886287 | | 2.52 | <0.002 | 0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886288 | | 2.44 | 0.004 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886289 | | 2.44 | <0.002 | 0.004 | <0.002 | <0.001 | <0.005 | <0.001 | 0.3 | | |
| S886290 | | 0.12 | <0.002 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886291 | | 2.36 | <0.002 | 0.003 | <0.002 | 0.005 | <0.005 | <0.001 | <0.2 | | |
| S886292 | | 2.11 | 0.009 | 0.002 | 0.003 | 0.006 | <0.005 | <0.001 | 0.3 | | |
| S886293 | | 2.38 | 0.007 | 0.004 | 0.003 | 0.010 | <0.005 | <0.001 | 0.3 | | |
| S886294 | | 1.02 | <0.002 | 0.013 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886295 | | 0.95 | <0.002 | 0.009 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886296 | | 2.41 | <0.002 | 0.004 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886297 | | 1.41 | 0.002 | 0.005 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886298 | | 1.99 | 0.002 | 0.142 | <0.002 | <0.001 | <0.005 | <0.001 | 0.2 | | |
| S886299 | | 1.78 | <0.002 | 0.013 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886300 | | 2.29 | <0.002 | 0.012 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886401 | | 2.10 | 0.003 | 0.052 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886402 | | 2.44 | <0.002 | 0.017 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886403 | | 4.61 | <0.002 | 0.006 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886404 | | 2.41 | <0.002 | <0.002 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886405 | | <0.02 | 0.100 | 0.309 | 0.017 | 0.044 | <0.005 | <0.001 | 0.4 | | |
| S886406 | | 2.26 | 0.007 | <0.002 | 0.004 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886407 | | 1.21 | 0.003 | 0.012 | 0.005 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886408 | | 1.06 | 0.012 | 0.005 | 0.006 | 0.021 | <0.005 | <0.001 | <0.2 | | |
| S886409 | | 1.15 | 0.004 | 0.008 | 0.007 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886410 | | 0.15 | <0.002 | <0.002 | 0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886411 | | 4.97 | 0.004 | 0.006 | 0.003 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886412 | | 2.41 | 0.003 | 0.002 | 0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886413 | | 2.46 | 0.002 | 0.003 | 0.004 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886414 | | 1.10 | <0.002 | 0.003 | 0.004 | <0.001 | <0.005 | <0.001 | <0.2 | 80.7 | |
| S886415 | | 1.12 | 0.004 | 0.003 | <0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886416 | | 2.37 | 0.004 | 0.004 | 0.003 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886417 | | 2.20 | 0.011 | <0.002 | 0.003 | 0.033 | <0.005 | <0.001 | <0.2 | | |
| S886418 | | 2.42 | 0.006 | 0.004 | 0.005 | 0.004 | <0.005 | <0.001 | <0.2 | | |
| S886419 | | 2.24 | 0.004 | 0.005 | 0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886420 | | 1.96 | <0.002 | 0.012 | 0.002 | <0.001 | <0.005 | <0.001 | <0.2 | 82.3 | 87.4 |



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Page: 10 - A
 Total # Pages: 10 (A)
 Plus Appendix Pages
 Finalized Date: 15-JAN-2019
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Project: 99421

CERTIFICATE OF ANALYSIS SD19009890

| Sample Description | Method Analyte Units LOD | WEI-21 | ME-ICP81 | ME-ICP81 | ME-ICP81 | PGM-ICP23 | PGM-ICP23 | PGM-ICP23 | Ag-AA45 | CRU-QC | PUL-QC |
|--------------------|--------------------------|--------------|----------|----------|----------|-----------|-----------|-----------|---------|-----------|------------|
| | | Recvd Wt. kg | Co % | Cu % | Ni % | Au ppm | Pt ppm | Pd ppm | Ag ppm | Pass2mm % | Pass75um % |
| | | 0.02 | 0.002 | 0.002 | 0.002 | 0.001 | 0.005 | 0.001 | 0.2 | 0.01 | 0.01 |
| S886421 | | 1.80 | 0.002 | 0.056 | 0.004 | <0.001 | <0.005 | <0.001 | 0.5 | | |
| S886422 | | 2.37 | <0.002 | 0.017 | 0.005 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886423 | | 2.21 | <0.002 | 0.004 | 0.003 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886424 | | 2.29 | <0.002 | 0.008 | 0.004 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886425 | | <0.02 | 0.099 | 0.309 | 0.019 | 0.041 | <0.005 | 0.001 | 0.2 | | |
| S886426 | | 2.26 | <0.002 | 0.003 | 0.003 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886427 | | 2.21 | <0.002 | 0.007 | 0.004 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886428 | | 2.27 | <0.002 | 0.003 | 0.003 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886429 | | 2.18 | <0.002 | 0.007 | 0.004 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886430 | | <0.02 | 0.099 | 0.308 | 0.023 | 0.042 | <0.005 | 0.001 | 0.3 | | |
| S886431 | | 2.28 | 0.002 | 0.004 | 0.003 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886432 | | 2.23 | <0.002 | 0.007 | 0.003 | 0.004 | <0.005 | <0.001 | <0.2 | | |
| S886433 | | 1.13 | <0.002 | 0.003 | 0.003 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886434 | | 1.03 | <0.002 | 0.004 | 0.004 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886435 | | 2.10 | <0.002 | 0.008 | 0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886436 | | 2.27 | <0.002 | 0.016 | 0.005 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886437 | | 2.20 | 0.002 | 0.006 | 0.002 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886438 | | 2.32 | 0.002 | 0.003 | 0.004 | <0.001 | <0.005 | <0.001 | <0.2 | | |
| S886439 | | 2.12 | <0.002 | <0.002 | 0.005 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886440 | | 2.35 | 0.002 | 0.005 | 0.003 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886441 | | 2.37 | <0.002 | 0.009 | 0.007 | <0.001 | <0.005 | 0.001 | <0.2 | | |
| S886442 | | 4.42 | 0.002 | 0.002 | 0.002 | <0.001 | <0.005 | <0.001 | <0.2 | | |



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 15-JAN-2019
Account: CCOQZOS

Project: 99421

CERTIFICATE OF ANALYSIS SD19009890

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: NSS is non-sufficient sample.
ALL METHODS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.
CRU-31 CRU-QC LOG-22 LOG-23
PUL-31 PUL-QC SPL-21 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Ag-AA45 ME-ICP81 PGM-ICP23



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Page: 1
 Total # Pages: 10 (A)
 Plus Appendix Pages
 Finalized Date: 15-JAN-2019
 This copy reported on
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QC CERTIFICATE SD19009890

Project: 99421

This report is for 342 Drill Core samples submitted to our lab in Sudbury, ON, Canada on 17-DEC-2018.

The following have access to data associated with this certificate:

| | | |
|----------|------------|-------------|
| SETH KAY | JIM NELSON | KRIS RAFFLE |
|----------|------------|-------------|

| SAMPLE PREPARATION | |
|--------------------|--------------------------------|
| ALS CODE | DESCRIPTION |
| WEI-21 | Received Sample Weight |
| LOG-22 | Sample login - Rcd w/o BarCode |
| CRU-31 | Fine crushing - 70% <2mm |
| CRU-QC | Crushing QC Test |
| PUL-QC | Pulverizing QC Test |
| SPL-21 | Split sample - riffle splitter |
| PUL-31 | Pulverize split to 85% <75 um |
| LOG-23 | Pulp Login - Rcvd with Barcode |

| ANALYTICAL PROCEDURES | | |
|-----------------------|---------------------------|------------|
| ALS CODE | DESCRIPTION | INSTRUMENT |
| PGM-ICP23 | Pt, Pd, Au 30g FA ICP | ICP-AES |
| Ag-AA45 | Trace Ag - aqua regia/AAS | AAS |
| ME-ICP81 | ICP Fusion - Ore Grade | ICP-AES |

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
 Total # Pages: 10 (A)
 Plus Appendix Pages
 Finalized Date: 15-JAN-2019
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QC CERTIFICATE OF ANALYSIS SD19009890

| Sample Description | Method Analyte Units LOD | ME-ICP81 Co % | ME-ICP81 Cu % | ME-ICP81 Ni % | PGM-ICP23 Au ppm | PGM-ICP23 Pt ppm | PGM-ICP23 Pd ppm | Ag-AA45 Ag ppm |
|----------------------------|--------------------------|---------------|---------------|---------------|------------------|------------------|------------------|----------------|
| | | 0.002 | 0.002 | 0.002 | 0.001 | 0.005 | 0.001 | 0.2 |
| STANDARDS | | | | | | | | |
| AMIS0281 | | 0.015 | 5.60 | 1.735 | | | | |
| AMIS0281 | | 0.017 | 5.74 | 1.790 | | | | |
| AMIS0281 | | 0.018 | 5.69 | 1.745 | | | | |
| AMIS0281 | | 0.017 | 5.68 | 1.790 | | | | |
| AMIS0281 | | 0.015 | 5.56 | 1.740 | | | | |
| Target Range - Lower Bound | | 0.013 | 5.27 | 1.650 | | | | |
| Upper Bound | | 0.021 | 5.83 | 1.830 | | | | |
| AMIS0324 | | 0.320 | 3.13 | 5.37 | | | | |
| AMIS0324 | | 0.322 | 3.11 | 5.38 | | | | |
| AMIS0324 | | 0.322 | 3.11 | 5.38 | | | | |
| AMIS0324 | | 0.323 | 3.14 | 5.44 | | | | |
| AMIS0324 | | 0.312 | 3.07 | 5.28 | | | | |
| AMIS0324 | | 0.317 | 3.09 | 5.38 | | | | |
| Target Range - Lower Bound | | 0.304 | 3.02 | 5.30 | | | | |
| Upper Bound | | 0.341 | 3.34 | 5.87 | | | | |
| AMIS0486 | | | | | 0.226 | 2.45 | 1.400 | |
| AMIS0486 | | | | | 0.206 | 2.30 | 1.315 | |
| AMIS0486 | | | | | 0.215 | 2.39 | 1.330 | |
| AMIS0486 | | | | | 0.229 | 2.52 | 1.430 | |
| Target Range - Lower Bound | | | | | 0.215 | 2.23 | 1.285 | |
| Upper Bound | | | | | 0.245 | 2.53 | 1.455 | |
| EMOG-17 | | | | | | | | 65.1 |
| EMOG-17 | | | | | | | | 66.3 |
| EMOG-17 | | | | | | | | 64.4 |
| EMOG-17 | | | | | | | | 65.0 |
| EMOG-17 | | | | | | | | 66.1 |
| EMOG-17 | | | | | | | | 65.0 |
| Target Range - Lower Bound | | | | | | | | 62.1 |
| Upper Bound | | | | | | | | 71.9 |
| GBM906-1 | | | | | | | | 21.6 |
| GBM906-1 | | | | | | | | 22.8 |
| GBM906-1 | | | | | | | | 22.9 |
| GBM906-1 | | | | | | | | 23.4 |
| GBM906-1 | | | | | | | | 21.4 |
| GBM906-1 | | | | | | | | 21.9 |
| GBM906-1 | | | | | | | | 22.2 |
| Target Range - Lower Bound | | | | | | | | 20.8 |
| Upper Bound | | | | | | | | 24.4 |



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Page: 3 - A
 Total # Pages: 10 (A)
 Plus Appendix Pages
 Finalized Date: 15-JAN-2019
 Account: CCCOQZOS

Project: 99421

QC CERTIFICATE OF ANALYSIS SD19009890

| Sample Description | Method Analyte Units LOD | ME-ICP81 | ME-ICP81 | ME-ICP81 | PGM-ICP23 | PGM-ICP23 | PGM-ICP23 | Ag-AA45 |
|----------------------------|--------------------------|----------|----------|----------|-----------|-----------|-----------|---------|
| | | Co % | Cu % | Ni % | Au ppm | Pt ppm | Pd ppm | Ag ppm |
| | | 0.002 | 0.002 | 0.002 | 0.001 | 0.005 | 0.001 | 0.2 |
| STANDARDS | | | | | | | | |
| GPP-14 | | | | | 0.926 | 0.508 | 0.489 | |
| GPP-14 | | | | | 0.929 | 0.511 | 0.491 | |
| GPP-14 | | | | | 0.903 | 0.511 | 0.486 | |
| GPP-14 | | | | | 0.907 | 0.521 | 0.482 | |
| GPP-14 | | | | | 0.916 | 0.491 | 0.486 | |
| Target Range - Lower Bound | | | | | 0.853 | 0.468 | 0.451 | |
| Upper Bound | | | | | 0.965 | 0.538 | 0.511 | |
| MP-1b | | <0.002 | 3.08 | 0.002 | | | | |
| MP-1b | | 0.002 | 3.05 | 0.004 | | | | |
| MP-1b | | <0.002 | 3.10 | <0.002 | | | | |
| MP-1b | | <0.002 | 3.12 | <0.002 | | | | |
| MP-1b | | <0.002 | 3.15 | 0.003 | | | | |
| Target Range - Lower Bound | | <0.002 | 2.91 | <0.002 | | | | |
| Upper Bound | | 0.004 | 3.22 | 0.005 | | | | |
| MRGeo08 | | | | | | | | 4.3 |
| MRGeo08 | | | | | | | | 4.2 |
| MRGeo08 | | | | | | | | 3.9 |
| MRGeo08 | | | | | | | | 4.5 |
| MRGeo08 | | | | | | | | 4.3 |
| MRGeo08 | | | | | | | | 4.3 |
| MRGeo08 | | | | | | | | 4.4 |
| MRGeo08 | | | | | | | | 4.1 |
| Target Range - Lower Bound | | | | | | | | 3.9 |
| Upper Bound | | | | | | | | 5.0 |
| OREAS 684 | | | | | 0.252 | 3.90 | 1.760 | |
| OREAS 684 | | | | | 0.253 | 4.01 | 1.750 | |
| OREAS 684 | | | | | 0.257 | 3.96 | 1.760 | |
| OREAS 684 | | | | | 0.252 | 3.93 | 1.760 | |
| Target Range - Lower Bound | | | | | 0.232 | 3.63 | 1.615 | |
| Upper Bound | | | | | 0.264 | 4.11 | 1.825 | |
| OREAS-132a | | | | | | | | 55.3 |
| OREAS-132a | | | | | | | | 52.3 |
| OREAS-132a | | | | | | | | 53.4 |
| OREAS-132a | | | | | | | | 52.2 |
| OREAS-132a | | | | | | | | 53.1 |
| OREAS-132a | | | | | | | | 55.8 |
| Target Range - Lower Bound | | | | | | | | 51.5 |
| Upper Bound | | | | | | | | 59.7 |



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Page: 4 - A
 Total # Pages: 10 (A)
 Plus Appendix Pages
 Finalized Date: 15-JAN-2019
 Account: CCCOQZOS

Project: 99421

QC CERTIFICATE OF ANALYSIS SD19009890

| Sample Description | Method Analyte Units LOD | ME-ICP81 Co % | ME-ICP81 Cu % | ME-ICP81 Ni % | PGM-ICP23 Au ppm | PGM-ICP23 Pt ppm | PGM-ICP23 Pd ppm | Ag-AA45 Ag ppm |
|----------------------------|--------------------------|---------------|---------------|---------------|------------------|------------------|------------------|----------------|
| | | 0.002 | 0.002 | 0.002 | 0.001 | 0.005 | 0.001 | 0.2 |
| STANDARDS | | | | | | | | |
| PK2 | | | | | 4.83 | 4.75 | 5.96 | |
| PK2 | | | | | 4.93 | 4.93 | 5.95 | |
| PK2 | | | | | 4.95 | 4.90 | 6.13 | |
| PK2 | | | | | 4.99 | 4.89 | 6.08 | |
| Target Range - Lower Bound | | | | | 4.50 | 4.46 | 5.56 | |
| Upper Bound | | | | | 5.07 | 5.04 | 6.27 | |
| SU-1b | | 0.063 | 1.155 | 1.945 | | | | |
| SU-1b | | 0.067 | 1.170 | 1.975 | | | | |
| SU-1b | | 0.066 | 1.195 | 1.990 | | | | |
| SU-1b | | 0.068 | 1.175 | 1.945 | | | | |
| SU-1b | | 0.069 | 1.190 | 1.950 | | | | |
| SU-1b | | 0.068 | 1.145 | 1.935 | | | | |
| Target Range - Lower Bound | | 0.062 | 1.125 | 1.855 | | | | |
| Upper Bound | | 0.073 | 1.245 | 2.05 | | | | |
| BLANKS | | | | | | | | |
| BLANK | | | | | | | | <0.2 |
| BLANK | | | | | | | | <0.2 |
| BLANK | | | | | | | | <0.2 |
| BLANK | | | | | | | | 0.2 |
| BLANK | | | | | | | | <0.2 |
| BLANK | | | | | | | | <0.2 |
| BLANK | | | | | | | | <0.2 |
| BLANK | | | | | | | | <0.2 |
| BLANK | | | | | | | | <0.2 |
| BLANK | | | | | | | | <0.2 |
| BLANK | | | | | | | | <0.2 |
| BLANK | | | | | | | | <0.2 |
| BLANK | | | | | | | | <0.2 |
| BLANK | | | | | | | | <0.2 |
| BLANK | | | | | | | | <0.2 |
| BLANK | | | | | | | | <0.2 |
| Target Range - Lower Bound | | | | | | | | <0.2 |
| Upper Bound | | | | | | | | 0.4 |



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Page: 5 - A
 Total # Pages: 10 (A)
 Plus Appendix Pages
 Finalized Date: 15-JAN-2019
 Account: CCCOQZOS

Project: 99421

QC CERTIFICATE OF ANALYSIS SD19009890

| Sample Description | Method Analyte Units LOD | ME-ICP81 Co % | ME-ICP81 Cu % | ME-ICP81 Ni % | PGM-ICP23 Au ppm | PGM-ICP23 Pt ppm | PGM-ICP23 Pd ppm | Ag-AA45 Ag ppm |
|----------------------------|--------------------------|---------------|---------------|---------------|------------------|------------------|------------------|----------------|
| | | 0.002 | 0.002 | 0.002 | 0.001 | 0.005 | 0.001 | 0.2 |
| BLANKS | | | | | | | | |
| BLANK | | <0.002 | <0.002 | <0.002 | | | | |
| BLANK | | <0.002 | <0.002 | <0.002 | | | | |
| BLANK | | 0.004 | <0.002 | <0.002 | | | | |
| BLANK | | <0.002 | <0.002 | <0.002 | | | | |
| BLANK | | <0.002 | <0.002 | <0.002 | | | | |
| BLANK | | <0.002 | 0.002 | <0.002 | | | | |
| BLANK | | <0.002 | <0.002 | <0.002 | | | | |
| BLANK | | <0.002 | <0.002 | <0.002 | | | | |
| BLANK | | <0.002 | <0.002 | <0.002 | | | | |
| BLANK | | <0.002 | <0.002 | <0.002 | | | | |
| Target Range - Lower Bound | | <0.002 | <0.002 | <0.002 | | | | |
| Upper Bound | | 0.004 | 0.004 | 0.004 | | | | |
| BLANK | | | | | <0.001 | <0.005 | 0.001 | |
| BLANK | | | | | <0.001 | <0.005 | 0.001 | |
| BLANK | | | | | 0.002 | <0.005 | 0.001 | |
| BLANK | | | | | 0.001 | <0.005 | <0.001 | |
| BLANK | | | | | 0.002 | <0.005 | <0.001 | |
| BLANK | | | | | <0.001 | <0.005 | <0.001 | |
| BLANK | | | | | <0.001 | <0.005 | <0.001 | |
| BLANK | | | | | <0.001 | <0.005 | <0.001 | |
| BLANK | | | | | 0.026 | <0.005 | <0.001 | |
| BLANK | | | | | <0.001 | <0.005 | <0.001 | |
| Target Range - Lower Bound | | | | | <0.001 | <0.005 | <0.001 | |
| Upper Bound | | | | | 0.002 | 0.010 | 0.002 | |
| DUPLICATES | | | | | | | | |
| S886003 | | | | | | | <0.2 | |
| DUP | | | | | | | <0.2 | |
| Target Range - Lower Bound | | | | | | | <0.2 | |
| Upper Bound | | | | | | | 0.4 | |

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Page: 6 - A
 Total # Pages: 10 (A)
 Plus Appendix Pages
 Finalized Date: 15-JAN-2019
 Account: CCCOQZOS

Project: 99421

QC CERTIFICATE OF ANALYSIS SD19009890

| Sample Description | Method Analyte Units LOD | ME-ICP81 Co % | ME-ICP81 Cu % | ME-ICP81 Ni % | PGM-ICP23 Au ppm | PGM-ICP23 Pt ppm | PGM-ICP23 Pd ppm | Ag-AA45 Ag ppm |
|----------------------------|--------------------------|---------------|---------------|---------------|------------------|------------------|------------------|----------------|
| | | 0.002 | 0.002 | 0.002 | 0.001 | 0.005 | 0.001 | 0.2 |
| DUPLICATES | | | | | | | | |
| S886009 | | 0.006 | 0.006 | <0.002 | | | | |
| DUP | | 0.007 | 0.006 | 0.002 | | | | |
| Target Range - Lower Bound | | 0.004 | 0.004 | <0.002 | | | | |
| Upper Bound | | 0.009 | 0.008 | 0.004 | | | | |
| S886010 | | | | | | | <0.2 | |
| DUP | | | | | | | <0.2 | |
| Target Range - Lower Bound | | | | | | | <0.2 | |
| Upper Bound | | | | | | | 0.4 | |
| S886034 | | | | | <0.001 | <0.005 | <0.001 | |
| DUP | | | | | <0.001 | <0.005 | <0.001 | |
| Target Range - Lower Bound | | | | | <0.001 | <0.005 | <0.001 | |
| Upper Bound | | | | | 0.002 | 0.010 | 0.002 | |
| S886046 | | | | | | | <0.2 | |
| DUP | | | | | | | <0.2 | |
| Target Range - Lower Bound | | | | | | | <0.2 | |
| Upper Bound | | | | | | | 0.4 | |
| S886054 | | | | | <0.001 | <0.005 | <0.001 | |
| DUP | | | | | <0.001 | <0.005 | <0.001 | |
| Target Range - Lower Bound | | | | | <0.001 | <0.005 | <0.001 | |
| Upper Bound | | | | | 0.002 | 0.010 | 0.002 | |
| S886065 | | 0.103 | 0.308 | 0.019 | | | | |
| DUP | | 0.102 | 0.309 | 0.016 | | | | |
| Target Range - Lower Bound | | 0.098 | 0.299 | 0.015 | | | | |
| Upper Bound | | 0.107 | 0.318 | 0.020 | | | | |
| S886074 | | | | | <0.001 | <0.005 | <0.001 | |
| DUP | | | | | <0.001 | <0.005 | <0.001 | |
| Target Range - Lower Bound | | | | | <0.001 | <0.005 | <0.001 | |
| Upper Bound | | | | | 0.002 | 0.010 | 0.002 | |
| S886082 | | | | | | | <0.2 | |
| DUP | | | | | | | <0.2 | |
| Target Range - Lower Bound | | | | | | | <0.2 | |
| Upper Bound | | | | | | | 0.4 | |



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Page: 7 - A
 Total # Pages: 10 (A)
 Plus Appendix Pages
 Finalized Date: 15-JAN-2019
 Account: CCCOQZOS

Project: 99421

QC CERTIFICATE OF ANALYSIS SD19009890

| Sample Description | Method Analyte Units LOD | ME-ICP81 | ME-ICP81 | ME-ICP81 | PGM-ICP23 | PGM-ICP23 | PGM-ICP23 | Ag-AA45 |
|----------------------------|--------------------------|----------|----------|----------|-----------|-----------|-----------|---------|
| | | Co % | Cu % | Ni % | Au ppm | Pt ppm | Pd ppm | Ag ppm |
| | | 0.002 | 0.002 | 0.002 | 0.001 | 0.005 | 0.001 | 0.2 |
| DUPLICATES | | | | | | | | |
| S886099 | | <0.002 | 0.006 | 0.002 | | | | |
| DUP | | 0.002 | 0.006 | <0.002 | | | | |
| Target Range - Lower Bound | | <0.002 | 0.004 | <0.002 | | | | |
| Upper Bound | | 0.004 | 0.008 | 0.004 | | | | |
| S886110 | | | | | <0.001 | <0.005 | 0.001 | |
| DUP | | | | | 0.002 | <0.005 | 0.001 | |
| Target Range - Lower Bound | | | | | <0.001 | <0.005 | <0.001 | |
| Upper Bound | | | | | 0.002 | 0.010 | 0.002 | |
| S886118 | | | | | | | <0.2 | |
| DUP | | | | | | | <0.2 | |
| Target Range - Lower Bound | | | | | | | <0.2 | |
| Upper Bound | | | | | | | 0.4 | |
| S886130 | | | | | <0.001 | <0.005 | <0.001 | |
| DUP | | | | | <0.001 | <0.005 | 0.001 | |
| Target Range - Lower Bound | | | | | <0.001 | <0.005 | <0.001 | |
| Upper Bound | | | | | 0.002 | 0.010 | 0.002 | |
| S886135 | | 0.005 | 0.017 | 0.007 | | | | |
| DUP | | 0.008 | 0.017 | 0.004 | | | | |
| Target Range - Lower Bound | | 0.004 | 0.015 | 0.003 | | | | |
| Upper Bound | | 0.009 | 0.019 | 0.008 | | | | |
| S886150 | | | | | <0.001 | <0.005 | 0.001 | |
| DUP | | | | | <0.001 | <0.005 | 0.001 | |
| Target Range - Lower Bound | | | | | <0.001 | <0.005 | <0.001 | |
| Upper Bound | | | | | 0.002 | 0.010 | 0.002 | |
| S886154 | | | | | | | <0.2 | |
| DUP | | | | | | | <0.2 | |
| Target Range - Lower Bound | | | | | | | <0.2 | |
| Upper Bound | | | | | | | 0.4 | |
| S886171 | | 0.005 | 0.003 | 0.003 | | | | |
| DUP | | 0.004 | 0.003 | 0.003 | | | | |
| Target Range - Lower Bound | | <0.002 | <0.002 | <0.002 | | | | |
| Upper Bound | | 0.007 | 0.004 | 0.004 | | | | |

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Page: 8 - A
 Total # Pages: 10 (A)
 Plus Appendix Pages
 Finalized Date: 15-JAN-2019
 Account: CCCOQZOS

Project: 99421

QC CERTIFICATE OF ANALYSIS SD19009890

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|----------------------------|--------------------------|---------------|---------------|---------------|------------------|------------------|------------------|----------------|
| | | 0.002 | 0.002 | 0.002 | 0.001 | 0.005 | 0.001 | 0.2 |
| DUPLICATES | | | | | | | | |
| S886186 DUP | | | | | <0.001 | <0.005 | 0.001 | |
| Target Range - Lower Bound | | | | | <0.001 | <0.005 | 0.001 | |
| Upper Bound | | | | | 0.002 | 0.010 | 0.002 | |
| S886190 DUP | | | | | | | <0.2 | |
| Target Range - Lower Bound | | | | | | | <0.2 | |
| Upper Bound | | | | | | | 0.4 | |
| S886206 DUP | | | | | 0.002 | <0.005 | 0.001 | |
| Target Range - Lower Bound | | | | | <0.001 | <0.005 | 0.001 | |
| Upper Bound | | | | | 0.002 | 0.010 | 0.002 | |
| S886207 DUP | | 0.006 | 0.011 | <0.002 | | | | |
| Target Range - Lower Bound | | 0.004 | 0.010 | <0.002 | | | | |
| Upper Bound | | 0.003 | 0.008 | <0.002 | | | | |
| S886226 DUP | | | | | 0.001 | <0.005 | 0.002 | <0.2 |
| Target Range - Lower Bound | | | | | <0.001 | <0.005 | 0.001 | <0.2 |
| Upper Bound | | | | | 0.002 | 0.010 | 0.002 | 0.4 |
| S886243 DUP | | <0.002 | 0.003 | <0.002 | | | | |
| Target Range - Lower Bound | | 0.003 | <0.002 | <0.002 | | | | |
| Upper Bound | | <0.002 | <0.002 | <0.002 | | | | |
| S886262 DUP | | | | | 0.037 | <0.005 | <0.001 | 1.3 |
| Target Range - Lower Bound | | | | | 0.037 | <0.005 | <0.001 | 1.4 |
| Upper Bound | | | | | 0.034 | <0.005 | <0.001 | 1.1 |
| S886267 DUP | | | | | <0.001 | <0.005 | <0.001 | |
| Target Range - Lower Bound | | | | | 0.037 | <0.005 | <0.001 | |
| Upper Bound | | | | | 0.017 | <0.005 | <0.001 | |



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Page: 9 - A
 Total # Pages: 10 (A)
 Plus Appendix Pages
 Finalized Date: 15-JAN-2019
 Account: CCCOQZOS

Project: 99421

QC CERTIFICATE OF ANALYSIS SD19009890

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|----------------------------|--------------------------|---------------------|---------------------|---------------------|------------------------|------------------------|------------------------|----------------------|
| | | 0.002 | 0.002 | 0.002 | 0.001 | 0.005 | 0.001 | 0.2 |
| DUPLICATES | | | | | | | | |
| S886279 | | <0.002 | 0.007 | <0.002 | | | | |
| DUP | | <0.002 | 0.007 | <0.002 | | | | |
| Target Range - Lower Bound | | <0.002 | 0.005 | <0.002 | | | | |
| Upper Bound | | 0.004 | 0.009 | 0.004 | | | | |
| S886287 | | | | | <0.001 | <0.005 | <0.001 | |
| DUP | | | | | <0.001 | <0.005 | <0.001 | |
| Target Range - Lower Bound | | | | | <0.001 | <0.005 | <0.001 | |
| Upper Bound | | | | | 0.002 | 0.010 | 0.002 | |
| S886403 | | | | | | | <0.2 | |
| DUP | | | | | | | <0.2 | |
| Target Range - Lower Bound | | | | | | | <0.2 | |
| Upper Bound | | | | | | | 0.4 | |
| S886407 | | | | | <0.001 | <0.005 | 0.001 | |
| DUP | | | | | <0.001 | <0.005 | <0.001 | |
| Target Range - Lower Bound | | | | | <0.001 | <0.005 | <0.001 | |
| Upper Bound | | | | | 0.002 | 0.010 | 0.002 | |
| S886415 | | 0.004 | 0.003 | <0.002 | | | | |
| DUP | | 0.003 | 0.003 | 0.003 | | | | |
| Target Range - Lower Bound | | <0.002 | <0.002 | <0.002 | | | | |
| Upper Bound | | 0.004 | 0.004 | 0.004 | | | | |
| S886440 | | | | | <0.001 | <0.005 | 0.001 | |
| DUP | | | | | <0.001 | <0.005 | <0.001 | |
| Target Range - Lower Bound | | | | | <0.001 | <0.005 | <0.001 | |
| Upper Bound | | | | | 0.002 | 0.010 | 0.002 | |
| S886441 | | | | | <0.001 | <0.005 | 0.001 | |
| DUP | | | | | <0.001 | <0.005 | 0.001 | |
| Target Range - Lower Bound | | | | | <0.001 | <0.005 | <0.001 | |
| Upper Bound | | | | | 0.002 | 0.010 | 0.002 | |
| S886442 | | | | | <0.001 | <0.005 | <0.001 | |
| DUP | | | | | <0.001 | <0.005 | 0.001 | |
| Target Range - Lower Bound | | | | | <0.001 | <0.005 | <0.001 | |
| Upper Bound | | | | | 0.002 | 0.010 | 0.002 | |



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Page: 10 - A
 Total # Pages: 10 (A)
 Plus Appendix Pages
 Finalized Date: 15-JAN-2019
 Account: CCCOQZOS

Project: 99421

| |
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| QC CERTIFICATE OF ANALYSIS SD19009890 |
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|-----------------------------|--------------------------|------------------|----------------|------------------|------------------|------------------|------------------|----------------|
| | | 0.002 | 0.002 | 0.002 | 0.001 | 0.005 | 0.001 | 0.2 |
| PREP DUPLICATES | | | | | | | | |
| S886056 S886056 PREP DUP | | 0.005 <0.002 | 0.005 0.006 | <0.002 <0.002 | <0.001 <0.001 | <0.005 <0.005 | <0.001 0.001 | <0.2 <0.2 |
| S886112 S886112 PREP DUP | | <0.002 <0.002 | 0.003 0.002 | 0.002 <0.002 | 0.001 <0.001 | <0.005 <0.005 | 0.001 0.001 | <0.2 <0.2 |
| S886168 S886168 PREP DUP | | 0.004 <0.002 | 0.004 0.004 | 0.004 <0.002 | 0.001 <0.001 | <0.005 <0.005 | 0.001 0.001 | <0.2 <0.2 |
| S886223 S886223 PREP DUP | | 0.002 0.002 | 0.009 0.009 | 0.004 0.004 | <0.001 <0.001 | <0.005 <0.005 | 0.001 <0.001 | <0.2 <0.2 |
| S886278 S886278 PREP DUP | | <0.002 <0.002 | 0.050 0.048 | <0.002 <0.002 | <0.001 <0.001 | <0.005 <0.005 | 0.001 <0.001 | 0.3 0.3 |
| S886434 S886434 PREP DUP | | <0.002 <0.002 | 0.004 0.005 | 0.004 0.003 | <0.001 <0.001 | <0.005 <0.005 | <0.001 0.001 | <0.2 <0.2 |
| | | | | | | | | |



ALS Canada Ltd.
2103 Dollarton Hwy
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To: CRUZ COBALT CORP.
1470 - 701 WEST GEORGIA STREET
PO BOX 10112
VANCOUVER BC V7Y 1C6

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 15-JAN-2019
Account: CCCOQZOS

Project: 99421

QC CERTIFICATE OF ANALYSIS SD19009890

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: NSS is non-sufficient sample.
ALL METHODS

LABORATORY ADDRESSES

| | | | | |
|--------------------|---|----------|-----------|--------|
| Applies to Method: | Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada. | | | |
| | CRU-31 | CRU-QC | LOG-22 | LOG-23 |
| | PUL-31 | PUL-QC | SPL-21 | WEI-21 |
| Applies to Method: | Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. | | | |
| | Ag-AA45 | ME-ICP81 | PGM-ICP23 | |

CLIENT NAME: CRUZ COBALT CORP.
P.O BOX 10112 1470-701 W. GEORGIA ST
VANCOUVER, BC V7Y 1C6
604-646-6908

ATTENTION TO: Jason Gigliotti, Jim Nelson

PROJECT:

AGAT WORK ORDER: 17T282580

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Jan 04, 2018

PAGES (INCLUDING COVER): 18

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.

Certificate of Analysis

AGAT WORK ORDER: 17T282580

PROJECT:

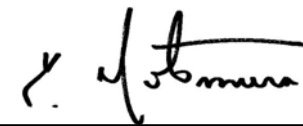
CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | DATE REPORTED: Jan 04, 2018 | | | SAMPLE TYPE: Other | | | | | | | |
|----------------------------|-----------------------------|------|------|-----------------------------|------|------|--------------------|-------|------|------|------|------|------|------|
| Analyte: | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs | Cu | Fe |
| Unit: | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % |
| RDL: | 0.01 | 0.01 | 0.2 | 1 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.05 | 0.5 | 0.01 | 0.5 | 0.01 |
| A1 (8893689) | 0.24 | 5.79 | 0.9 | 541 | 1.17 | 0.06 | 1.45 | 0.03 | 17.4 | 6.46 | 39.8 | 1.05 | 3.3 | 1.22 |
| A2 (8893690) | 0.15 | 6.47 | 0.8 | 524 | 1.27 | 0.07 | 1.37 | 0.05 | 19.2 | 7.99 | 47.5 | 1.14 | 2.5 | 1.86 |
| A3 (8893691) | 0.17 | 6.37 | 0.7 | 521 | 1.32 | 0.07 | 1.33 | 0.05 | 28.8 | 10.6 | 48.8 | 1.19 | 6.0 | 1.71 |
| A4 (8893692) | 0.16 | 6.75 | 2.8 | 452 | 1.14 | 0.08 | 1.15 | 0.08 | 15.2 | 7.64 | 50.1 | 1.16 | 3.9 | 2.30 |
| A5 (8893693) | 0.13 | 5.31 | 0.7 | 480 | 0.98 | 0.07 | 1.08 | 0.02 | 18.0 | 4.28 | 34.3 | 0.99 | 1.5 | 1.20 |
| A6 (8893694) | 0.31 | 6.69 | 3.8 | 424 | 1.35 | 0.16 | 1.21 | 0.10 | 42.5 | 19.1 | 74.5 | 1.71 | 22.1 | 2.97 |
| A7 (8893695) | 0.27 | 6.79 | 3.1 | 391 | 1.33 | 0.26 | 1.14 | 0.10 | 23.8 | 17.4 | 67.0 | 1.99 | 15.1 | 3.35 |
| A8 (8893696) | 0.26 | 6.62 | 2.4 | 496 | 1.26 | 0.14 | 1.46 | 0.09 | 27.5 | 13.7 | 51.8 | 1.50 | 11.8 | 2.37 |
| A9 (8893697) | 0.16 | 5.99 | 3.9 | 476 | 1.29 | 0.12 | 1.67 | 0.07 | 34.7 | 12.5 | 50.0 | 1.23 | 17.0 | 2.04 |
| A10 (8893698) | 0.14 | 6.44 | 3.9 | 529 | 1.40 | 0.10 | 1.61 | 0.06 | 39.8 | 11.4 | 57.2 | 1.06 | 13.6 | 2.16 |
| A11 (8893699) | 0.18 | 6.70 | 6.7 | 506 | 1.46 | 0.15 | 1.56 | 0.08 | 40.2 | 15.6 | 66.7 | 1.55 | 32.5 | 2.26 |
| A12 (8893700) | 0.17 | 6.30 | 8.6 | 432 | 1.37 | 0.34 | 1.47 | 0.06 | 65.5 | 15.8 | 77.1 | 1.60 | 72.8 | 2.94 |
| A13 (8893701) | 0.25 | 6.46 | 9.6 | 457 | 1.70 | 0.36 | 1.48 | 0.18 | 87.5 | 21.4 | 67.6 | 1.86 | 66.8 | 2.82 |
| A14 (8893702) | 0.20 | 6.28 | 5.3 | 497 | 1.36 | 0.17 | 1.58 | 0.12 | 39.7 | 10.1 | 57.4 | 1.19 | 18.4 | 2.06 |
| A15 (8893703) | 0.16 | 6.22 | 5.1 | 488 | 1.43 | 0.41 | 1.55 | 0.06 | 31.8 | 14.3 | 53.6 | 1.28 | 40.8 | 2.06 |
| A16 (8893704) | 0.16 | 6.27 | 1.2 | 506 | 1.22 | 0.11 | 1.54 | 0.04 | 28.3 | 9.11 | 35.8 | 0.97 | 17.0 | 1.84 |
| A17 (8893705) | 0.40 | 6.66 | 2.6 | 489 | 1.38 | 0.09 | 1.43 | 0.07 | 34.9 | 12.0 | 45.2 | 1.04 | 18.5 | 2.13 |
| A18 (8893706) | 0.32 | 6.41 | 4.7 | 480 | 1.61 | 0.23 | 1.56 | 0.08 | 41.7 | 16.2 | 60.0 | 1.24 | 20.7 | 2.79 |
| A19 (8893707) | 0.21 | 6.34 | 1.2 | 491 | 1.41 | 0.08 | 1.61 | 0.08 | 23.5 | 12.7 | 57.0 | 0.98 | 4.8 | 2.16 |
| A20 (8893708) | 0.15 | 6.40 | 1.5 | 535 | 1.44 | 0.09 | 1.43 | 0.04 | 28.8 | 9.92 | 43.0 | 1.02 | 10.0 | 2.23 |
| A21 (8893709) | 0.43 | 6.26 | 2.7 | 484 | 1.28 | 0.10 | 1.42 | 0.15 | 28.1 | 14.0 | 60.5 | 1.46 | 8.3 | 2.26 |
| B3 (8893710) | 0.25 | 6.43 | 1.7 | 535 | 1.37 | 0.09 | 1.85 | 0.07 | 60.0 | 12.4 | 74.0 | 1.43 | 18.0 | 2.26 |
| B4 (8893711) | 0.17 | 6.73 | 2.7 | 556 | 1.65 | 0.12 | 1.93 | 0.13 | 39.2 | 16.5 | 73.8 | 1.62 | 36.9 | 2.36 |
| B5 (8893712) | 0.18 | 6.53 | 3.1 | 503 | 1.49 | 0.10 | 2.01 | 0.05 | 36.6 | 15.4 | 58.4 | 1.11 | 16.8 | 2.95 |
| B6 (8893713) | 0.17 | 6.47 | 4.0 | 535 | 1.46 | 0.09 | 1.86 | <0.02 | 42.6 | 13.2 | 54.8 | 1.61 | 19.1 | 2.37 |
| B7 (8893714) | 0.15 | 6.48 | 2.5 | 479 | 1.43 | 0.10 | 2.22 | 0.05 | 46.7 | 13.1 | 65.3 | 1.08 | 6.1 | 2.82 |
| B8 (8893715) | 0.21 | 6.51 | 4.4 | 434 | 1.22 | 0.22 | 1.27 | 0.09 | 34.3 | 19.2 | 79.0 | 2.04 | 31.0 | 3.20 |
| B9 (8893716) | 0.31 | 6.08 | 6.3 | 430 | 1.30 | 0.15 | 1.51 | 0.07 | 35.6 | 15.9 | 75.1 | 1.52 | 22.1 | 2.88 |
| B10 (8893717) | 0.25 | 7.07 | 6.1 | 481 | 1.31 | 0.13 | 1.37 | 0.12 | 46.3 | 22.4 | 79.9 | 1.62 | 37.1 | 2.80 |
| B11 (8893718) | 0.16 | 6.85 | 27.0 | 491 | 1.38 | 0.14 | 1.46 | 0.09 | 33.4 | 20.0 | 71.8 | 1.38 | 25.3 | 3.19 |
| B12 (8893719) | 0.37 | 9.34 | 3.1 | 595 | 1.74 | 0.15 | 1.84 | 0.10 | 38.5 | 24.0 | 96.3 | 2.18 | 41.5 | 3.67 |
| B13 (8893720) | 0.18 | 6.48 | 8.0 | 530 | 1.51 | 0.19 | 1.54 | 0.07 | 20.9 | 9.76 | 46.2 | 1.16 | 14.4 | 1.67 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282580

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | DATE REPORTED: Jan 04, 2018 | | | SAMPLE TYPE: Other | | | | | | | |
|----------------------------|-----------------------------|------|-----|-----------------------------|------|------|--------------------|------|------|------|------|------|------|------|
| Analyte: | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs | Cu | Fe |
| Unit: | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % |
| RDL: | 0.01 | 0.01 | 0.2 | 1 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.05 | 0.5 | 0.01 | 0.5 | 0.01 |
| B14 (8893721) | 0.22 | 6.51 | 8.3 | 467 | 1.48 | 2.55 | 1.50 | 0.09 | 36.9 | 20.1 | 68.1 | 1.89 | 68.5 | 2.81 |
| B15 (8893722) | 0.34 | 5.64 | 3.4 | 461 | 1.14 | 0.18 | 1.34 | 0.12 | 41.9 | 7.02 | 57.4 | 1.30 | 10.7 | 2.00 |
| B16 (8893723) | 0.21 | 5.72 | 4.5 | 441 | 1.00 | 0.19 | 1.34 | 0.15 | 35.6 | 8.67 | 55.4 | 1.88 | 11.8 | 2.27 |
| B17 (8893724) | 0.09 | 6.17 | 0.7 | 501 | 1.34 | 0.09 | 1.52 | 0.05 | 27.8 | 8.86 | 45.7 | 0.95 | 10.2 | 1.42 |
| B18 (8893725) | 0.12 | 6.27 | 0.9 | 466 | 1.28 | 0.07 | 1.54 | 0.06 | 25.6 | 8.86 | 50.6 | 0.96 | 4.5 | 1.46 |
| B19 (8893726) | 0.18 | 7.85 | 2.5 | 399 | 1.55 | 0.13 | 1.36 | 0.09 | 32.1 | 9.88 | 76.7 | 1.37 | 7.6 | 1.65 |
| B20 (8893727) | 0.27 | 7.74 | 4.3 | 332 | 1.57 | 0.14 | 1.08 | 0.14 | 16.2 | 12.4 | 90.3 | 1.09 | 10.7 | 3.19 |
| B21 (8893728) | 0.15 | 7.76 | 2.6 | 473 | 1.68 | 0.12 | 1.50 | 0.06 | 42.1 | 14.0 | 49.5 | 1.21 | 20.0 | 1.80 |
| B22 (8893729) | 0.34 | 7.70 | 6.9 | 403 | 1.52 | 0.16 | 1.24 | 0.17 | 45.1 | 20.5 | 111 | 1.70 | 17.0 | 4.50 |
| B23 (8893730) | 0.35 | 7.15 | 7.4 | 402 | 1.48 | 0.23 | 1.30 | 0.11 | 35.5 | 31.5 | 81.6 | 2.31 | 37.7 | 4.00 |
| C1 (8893731) | 0.28 | 7.16 | 3.1 | 449 | 1.37 | 0.12 | 1.12 | 0.09 | 25.1 | 13.2 | 69.0 | 1.54 | 12.0 | 2.34 |
| C2 (8893732) | 0.21 | 6.18 | 5.9 | 444 | 1.14 | 0.16 | 1.11 | 0.10 | 19.8 | 20.1 | 74.8 | 2.23 | 13.2 | 3.57 |
| C3 (8893733) | 0.21 | 6.66 | 3.4 | 503 | 1.32 | 0.12 | 1.55 | 0.07 | 34.3 | 15.6 | 77.7 | 1.64 | 18.9 | 2.64 |
| C4 (8893734) | 0.35 | 8.23 | 5.0 | 603 | 1.59 | 0.17 | 1.33 | 0.11 | 35.1 | 28.2 | 113 | 2.76 | 38.0 | 3.90 |
| C5 (8893735) | 0.26 | 5.73 | 6.1 | 542 | 1.01 | 0.27 | 1.22 | 0.08 | 28.8 | 10.4 | 63.2 | 2.15 | 8.2 | 2.35 |
| C6 (8893736) | 0.23 | 6.52 | 3.3 | 523 | 1.27 | 0.15 | 1.32 | 0.13 | 32.0 | 16.4 | 80.8 | 2.19 | 15.9 | 2.84 |
| C7 (8893737) | 0.26 | 6.50 | 3.4 | 505 | 1.37 | 0.14 | 1.47 | 0.19 | 31.3 | 20.2 | 84.6 | 1.98 | 19.5 | 3.00 |
| C8 (8893738) | 0.43 | 6.10 | 6.0 | 468 | 1.33 | 0.19 | 1.49 | 0.15 | 31.7 | 20.0 | 87.7 | 2.35 | 20.0 | 3.67 |
| C9 (8893739) | 0.28 | 6.76 | 7.5 | 555 | 1.16 | 0.15 | 1.71 | 0.12 | 31.6 | 18.3 | 86.5 | 2.36 | 12.1 | 2.78 |
| C10 (8893740) | 0.24 | 6.66 | 4.6 | 519 | 1.21 | 0.13 | 1.68 | 0.13 | 32.1 | 19.0 | 94.5 | 2.21 | 19.0 | 3.24 |
| C11 (8893741) | 0.30 | 7.68 | 7.1 | 521 | 1.29 | 0.17 | 1.61 | 0.12 | 22.5 | 33.7 | 123 | 3.40 | 9.1 | 4.79 |
| C12 (8893742) | 0.32 | 7.00 | 4.1 | 541 | 1.62 | 0.16 | 1.21 | 0.16 | 29.6 | 23.1 | 95.5 | 2.63 | 17.9 | 3.64 |
| C13 (8893743) | 0.46 | 6.59 | 4.6 | 527 | 1.31 | 0.18 | 1.35 | 0.18 | 45.8 | 16.3 | 86.0 | 2.14 | 15.1 | 3.34 |
| C14 (8893744) | 0.74 | 7.11 | 6.7 | 402 | 1.62 | 0.17 | 0.86 | 0.26 | 44.2 | 40.1 | 208 | 2.33 | 51.4 | 4.92 |
| C15 (8893745) | 0.38 | 8.13 | 5.6 | 559 | 1.68 | 0.23 | 1.10 | 0.19 | 36.4 | 39.9 | 106 | 3.26 | 40.6 | 4.08 |
| C16 (8893746) | 0.22 | 6.55 | 2.5 | 505 | 1.32 | 0.11 | 1.26 | 0.10 | 33.9 | 16.4 | 84.4 | 1.89 | 13.8 | 2.79 |
| C17 (8893747) | 0.22 | 6.71 | 1.9 | 524 | 1.38 | 0.11 | 1.30 | 0.11 | 47.9 | 14.7 | 85.0 | 1.88 | 12.8 | 2.54 |
| C18 (8893748) | 0.27 | 6.73 | 2.0 | 509 | 1.44 | 0.11 | 1.52 | 0.11 | 39.8 | 16.5 | 85.4 | 1.62 | 8.2 | 3.10 |
| C19 (8893749) | 0.17 | 5.82 | 2.5 | 532 | 1.25 | 0.08 | 1.48 | 0.11 | 32.2 | 9.26 | 50.5 | 1.67 | 4.1 | 1.58 |
| C20 (8893750) | 0.24 | 6.25 | 2.9 | 492 | 1.18 | 0.10 | 1.33 | 0.08 | 28.0 | 11.6 | 69.8 | 1.74 | 7.7 | 2.22 |
| C21 (8893751) | 0.24 | 6.30 | 1.6 | 522 | 1.35 | 0.13 | 1.28 | 0.11 | 29.4 | 18.1 | 77.3 | 2.46 | 15.1 | 3.05 |
| C22 (8893752) | 0.24 | 6.54 | 2.7 | 548 | 1.45 | 0.12 | 1.44 | 0.11 | 40.0 | 16.8 | 73.8 | 2.39 | 9.4 | 2.11 |

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 17T282580

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | DATE REPORTED: Jan 04, 2018 | | | | SAMPLE TYPE: Other | | | | | |
|----------------------------|-----------------------------|------|-----|-----|-----------------------------|------|------|------|--------------------|------|------|------|------|------|
| Analyte: | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs | Cu | Fe |
| Unit: | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % |
| RDL: | 0.01 | 0.01 | 0.2 | 1 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.05 | 0.5 | 0.01 | 0.5 | 0.01 |
| C23 (8893753) | 0.12 | 5.61 | 1.5 | 451 | 1.11 | 0.07 | 1.44 | 0.06 | 14.3 | 8.74 | 44.3 | 1.65 | 2.3 | 1.51 |
| C24 (8893754) | 0.14 | 5.86 | 2.3 | 458 | 1.34 | 0.09 | 1.70 | 0.08 | 46.7 | 11.8 | 71.7 | 1.36 | 15.1 | 1.99 |
| C25 (8893755) | 0.20 | 7.21 | 2.5 | 552 | 1.67 | 0.17 | 1.34 | 0.06 | 54.1 | 19.5 | 103 | 2.96 | 24.7 | 3.01 |
| C26 (8893756) | 0.14 | 7.64 | 2.7 | 543 | 1.62 | 0.11 | 1.66 | 0.03 | 39.9 | 20.7 | 72.8 | 1.93 | 10.5 | 3.22 |
| D1 (8893757) | 0.39 | 7.21 | 3.3 | 529 | 1.27 | 0.13 | 1.23 | 0.14 | 26.9 | 19.1 | 85.1 | 2.29 | 14.3 | 3.28 |
| D2 (8893758) | 0.26 | 7.04 | 3.2 | 470 | 1.41 | 0.15 | 1.49 | 0.10 | 27.6 | 26.0 | 95.3 | 2.14 | 16.8 | 4.09 |
| D3 (8893759) | 0.15 | 7.02 | 1.5 | 565 | 1.62 | 0.10 | 1.31 | 0.08 | 28.3 | 14.3 | 73.1 | 1.68 | 16.4 | 2.29 |
| D4 (8893760) | 0.38 | 6.52 | 6.8 | 423 | 1.35 | 0.43 | 1.19 | 0.13 | 28.7 | 16.9 | 96.4 | 2.63 | 27.0 | 5.36 |

Certified By:

Certificate of Analysis

AGAT WORK ORDER: 17T282580

PROJECT:

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 04, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|------|-----|-------|------|-----------------------------|------|------|-----|------|--------------------|------|------|------|--|
| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P | |
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm | |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 | |
| A1 (8893689) | 13.8 | 0.23 | 1.8 | 0.019 | 1.72 | 8.5 | 9.3 | 0.52 | 250 | 0.31 | 2.27 | 4.4 | 16.2 | 228 | |
| A2 (8893690) | 15.7 | 0.48 | 2.3 | 0.026 | 1.70 | 9.3 | 12.9 | 0.52 | 242 | 0.43 | 2.19 | 6.7 | 17.2 | 178 | |
| A3 (8893691) | 15.0 | 0.23 | 2.2 | 0.022 | 1.73 | 11.7 | 12.1 | 0.60 | 240 | 0.38 | 2.16 | 5.3 | 22.9 | 233 | |
| A4 (8893692) | 16.1 | 0.43 | 1.3 | 0.029 | 1.43 | 7.3 | 14.4 | 0.43 | 207 | 0.56 | 1.89 | 5.7 | 17.8 | 322 | |
| A5 (8893693) | 14.2 | 0.38 | 1.9 | 0.022 | 1.53 | 8.8 | 9.4 | 0.36 | 188 | 0.51 | 1.82 | 4.6 | 10.9 | 204 | |
| A6 (8893694) | 15.3 | 0.35 | 2.1 | 0.036 | 1.51 | 12.2 | 26.1 | 0.83 | 351 | 0.84 | 1.77 | 7.2 | 36.7 | 424 | |
| A7 (8893695) | 15.8 | 0.35 | 2.4 | 0.042 | 1.40 | 11.6 | 26.6 | 0.72 | 336 | 0.93 | 1.61 | 7.8 | 32.5 | 1140 | |
| A8 (8893696) | 15.0 | 0.33 | 3.0 | 0.029 | 1.69 | 11.4 | 15.2 | 0.69 | 334 | 0.59 | 2.02 | 6.9 | 28.8 | 460 | |
| A9 (8893697) | 13.8 | 0.35 | 3.2 | 0.026 | 1.54 | 12.9 | 16.1 | 0.71 | 381 | 0.38 | 2.18 | 6.2 | 26.1 | 233 | |
| A10 (8893698) | 14.4 | 0.39 | 1.9 | 0.023 | 1.65 | 12.5 | 13.9 | 0.64 | 336 | 0.46 | 2.34 | 5.3 | 26.7 | 339 | |
| A11 (8893699) | 16.7 | 0.36 | 2.5 | 0.031 | 1.65 | 18.1 | 14.2 | 0.74 | 335 | 0.63 | 2.16 | 6.6 | 32.5 | 307 | |
| A12 (8893700) | 15.5 | 0.39 | 2.9 | 0.032 | 1.50 | 21.0 | 17.3 | 0.89 | 486 | 0.56 | 2.04 | 6.7 | 34.7 | 441 | |
| A13 (8893701) | 16.3 | 0.42 | 2.9 | 0.036 | 1.62 | 26.7 | 20.4 | 0.85 | 486 | 0.74 | 2.03 | 7.3 | 35.3 | 449 | |
| A14 (8893702) | 15.3 | 0.40 | 2.3 | 0.027 | 1.61 | 16.0 | 14.6 | 0.65 | 365 | 0.58 | 2.29 | 5.4 | 22.4 | 196 | |
| A15 (8893703) | 15.3 | 0.41 | 2.8 | 0.026 | 1.58 | 12.8 | 16.0 | 0.71 | 383 | 0.83 | 2.20 | 6.1 | 25.3 | 199 | |
| A16 (8893704) | 14.2 | 0.40 | 2.1 | 0.023 | 1.66 | 11.6 | 10.2 | 0.63 | 299 | 0.48 | 2.31 | 4.9 | 20.6 | 337 | |
| A17 (8893705) | 14.2 | 0.45 | 2.0 | 0.026 | 1.60 | 13.7 | 13.6 | 0.59 | 268 | 0.67 | 2.13 | 6.1 | 26.3 | 343 | |
| A18 (8893706) | 15.8 | 0.51 | 3.5 | 0.032 | 1.58 | 14.8 | 14.1 | 0.71 | 367 | 0.90 | 2.10 | 7.3 | 27.7 | 415 | |
| A19 (8893707) | 14.3 | 0.55 | 1.9 | 0.024 | 1.59 | 9.9 | 10.8 | 0.64 | 353 | 0.39 | 2.25 | 5.7 | 24.6 | 620 | |
| A20 (8893708) | 15.5 | 0.57 | 1.6 | 0.025 | 1.73 | 11.7 | 11.8 | 0.56 | 276 | 0.57 | 2.30 | 5.4 | 20.7 | 370 | |
| A21 (8893709) | 15.4 | 0.59 | 3.1 | 0.032 | 1.58 | 13.7 | 13.9 | 0.57 | 696 | 0.69 | 1.95 | 7.4 | 21.2 | 512 | |
| B3 (8893710) | 15.3 | 0.65 | 2.4 | 0.027 | 1.80 | 29.1 | 16.5 | 0.92 | 359 | 0.45 | 2.32 | 6.2 | 31.3 | 550 | |
| B4 (8893711) | 16.4 | 0.54 | 2.1 | 0.029 | 1.86 | 19.7 | 19.7 | 1.04 | 361 | 0.35 | 2.44 | 6.3 | 33.7 | 533 | |
| B5 (8893712) | 15.2 | 0.57 | 2.2 | 0.031 | 1.66 | 16.8 | 15.8 | 1.10 | 457 | 0.55 | 2.50 | 11.7 | 32.1 | 594 | |
| B6 (8893713) | 16.3 | 0.57 | 2.5 | 0.023 | 1.81 | 21.0 | 18.0 | 0.98 | 365 | 0.49 | 2.29 | 7.9 | 31.7 | 515 | |
| B7 (8893714) | 15.9 | 0.61 | 3.5 | 0.034 | 1.61 | 21.5 | 13.5 | 1.11 | 482 | 0.36 | 2.39 | 7.1 | 28.3 | 666 | |
| B8 (8893715) | 15.5 | 0.66 | 2.6 | 0.033 | 1.54 | 12.2 | 23.9 | 0.94 | 435 | 0.61 | 1.83 | 7.6 | 43.0 | 389 | |
| B9 (8893716) | 15.0 | 0.62 | 3.3 | 0.034 | 1.55 | 16.5 | 19.3 | 0.86 | 455 | 0.49 | 2.02 | 8.5 | 31.8 | 301 | |
| B10 (8893717) | 15.3 | 0.62 | 2.7 | 0.032 | 1.61 | 14.3 | 23.6 | 0.83 | 345 | 0.68 | 1.91 | 8.0 | 43.0 | 441 | |
| B11 (8893718) | 15.9 | 0.62 | 3.7 | 0.034 | 1.63 | 16.0 | 21.4 | 0.78 | 332 | 1.71 | 1.97 | 7.9 | 36.2 | 268 | |
| B12 (8893719) | 20.6 | 0.39 | 3.9 | 0.044 | 2.12 | 18.0 | 27.7 | 1.16 | 506 | 0.94 | 2.80 | 10.4 | 46.6 | 462 | |
| B13 (8893720) | 15.0 | 0.53 | 1.9 | 0.024 | 1.74 | 9.6 | 13.6 | 0.60 | 298 | 0.58 | 2.44 | 4.3 | 20.4 | 207 | |

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 17T282580

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 04, 2018

SAMPLE TYPE: Other

| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P |
|---------------|------|-------|-----|-------|------|------|------|------|-----|------|------|------|------|------|
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 |
| B14 (8893721) | 17.9 | 0.57 | 3.3 | 0.039 | 1.60 | 19.8 | 20.8 | 0.91 | 454 | 0.68 | 2.00 | 8.5 | 36.0 | 255 |
| B15 (8893722) | 17.5 | 0.62 | 2.8 | 0.029 | 1.49 | 20.7 | 13.1 | 0.49 | 324 | 0.62 | 1.86 | 14.6 | 15.5 | 316 |
| B16 (8893723) | 17.8 | 0.62 | 3.3 | 0.029 | 1.54 | 17.6 | 12.8 | 0.64 | 349 | 0.89 | 1.79 | 9.2 | 19.2 | 194 |
| B17 (8893724) | 13.3 | 0.60 | 2.4 | 0.021 | 1.69 | 13.0 | 10.1 | 0.63 | 289 | 0.31 | 2.27 | 5.0 | 21.9 | 173 |
| B18 (8893725) | 13.8 | 0.60 | 2.2 | 0.023 | 1.57 | 12.2 | 12.0 | 0.64 | 287 | 0.29 | 2.19 | 5.6 | 22.0 | 321 |
| B19 (8893726) | 16.9 | 0.61 | 2.6 | 0.040 | 1.31 | 16.8 | 24.0 | 0.67 | 281 | 0.58 | 1.68 | 9.1 | 24.2 | 389 |
| B20 (8893727) | 14.1 | 0.69 | 2.5 | 0.040 | 1.06 | 7.6 | 20.7 | 0.55 | 260 | 0.74 | 1.40 | 6.4 | 29.5 | 586 |
| B21 (8893728) | 16.2 | 0.69 | 2.1 | 0.027 | 1.45 | 18.9 | 18.5 | 0.67 | 285 | 0.53 | 2.07 | 7.6 | 36.4 | 403 |
| B22 (8893729) | 16.4 | 0.72 | 3.3 | 0.045 | 1.35 | 21.7 | 31.1 | 0.78 | 418 | 0.94 | 1.51 | 15.8 | 46.2 | 612 |
| B23 (8893730) | 17.5 | 0.66 | 2.7 | 0.046 | 1.46 | 15.2 | 28.3 | 1.04 | 453 | 0.99 | 1.77 | 8.1 | 61.1 | 503 |
| C1 (8893731) | 15.0 | 0.69 | 2.4 | 0.037 | 1.50 | 12.0 | 23.6 | 0.58 | 250 | 0.81 | 1.61 | 8.0 | 34.4 | 571 |
| C2 (8893732) | 18.1 | 0.64 | 2.5 | 0.037 | 1.54 | 10.1 | 25.4 | 0.76 | 515 | 1.40 | 1.74 | 8.3 | 31.0 | 346 |
| C3 (8893733) | 15.2 | 0.65 | 3.1 | 0.030 | 1.70 | 16.4 | 20.8 | 0.88 | 388 | 0.54 | 2.05 | 8.6 | 38.1 | 263 |
| C4 (8893734) | 19.0 | 0.71 | 2.9 | 0.043 | 1.83 | 14.1 | 29.5 | 1.23 | 430 | 0.79 | 1.55 | 17.5 | 62.5 | 428 |
| C5 (8893735) | 17.0 | 0.14 | 3.0 | 0.028 | 1.93 | 14.3 | 23.7 | 0.65 | 256 | 1.01 | 1.62 | 10.1 | 26.2 | 203 |
| C6 (8893736) | 17.0 | 0.13 | 3.0 | 0.038 | 1.85 | 14.9 | 23.7 | 0.82 | 337 | 0.91 | 1.69 | 10.6 | 37.0 | 259 |
| C7 (8893737) | 16.8 | 0.18 | 3.1 | 0.036 | 1.76 | 14.7 | 22.0 | 0.90 | 398 | 0.83 | 1.71 | 10.2 | 41.7 | 211 |
| C8 (8893738) | 18.9 | 0.19 | 3.2 | 0.039 | 1.61 | 15.0 | 26.0 | 0.86 | 438 | 1.10 | 1.63 | 11.0 | 38.9 | 279 |
| C9 (8893739) | 17.4 | 0.15 | 3.2 | 0.037 | 1.93 | 15.4 | 37.4 | 1.08 | 420 | 0.51 | 1.89 | 10.2 | 40.6 | 170 |
| C10 (8893740) | 16.7 | 0.14 | 3.1 | 0.039 | 1.74 | 15.3 | 43.3 | 1.10 | 467 | 0.73 | 1.79 | 10.1 | 44.3 | 205 |
| C11 (8893741) | 23.1 | 0.09 | 3.4 | 0.052 | 1.64 | 10.8 | 65.0 | 2.07 | 711 | 0.62 | 1.63 | 11.0 | 64.6 | 252 |
| C12 (8893742) | 19.7 | <0.05 | 2.7 | 0.059 | 1.94 | 14.6 | 36.9 | 1.05 | 339 | 1.16 | 1.59 | 10.9 | 48.3 | 386 |
| C13 (8893743) | 17.6 | 0.11 | 3.2 | 0.039 | 1.79 | 22.5 | 25.1 | 0.86 | 384 | 0.81 | 1.69 | 10.0 | 38.4 | 630 |
| C14 (8893744) | 18.2 | 0.22 | 2.5 | 0.053 | 1.29 | 20.7 | 38.6 | 3.08 | 409 | 1.09 | 0.97 | 43.5 | 95.9 | 940 |
| C15 (8893745) | 20.9 | 0.12 | 2.2 | 0.046 | 1.82 | 14.5 | 35.7 | 1.10 | 392 | 1.08 | 1.44 | 11.4 | 67.1 | 1650 |
| C16 (8893746) | 16.1 | 0.23 | 3.3 | 0.035 | 1.71 | 16.1 | 19.9 | 0.88 | 379 | 0.55 | 1.63 | 9.1 | 43.3 | 653 |
| C17 (8893747) | 15.3 | 0.17 | 3.2 | 0.030 | 1.85 | 22.0 | 18.4 | 0.88 | 361 | 0.48 | 1.75 | 9.3 | 40.4 | 748 |
| C18 (8893748) | 15.9 | 0.06 | 3.9 | 0.034 | 1.63 | 18.3 | 18.2 | 0.78 | 394 | 0.57 | 1.94 | 15.6 | 35.4 | 706 |
| C19 (8893749) | 17.1 | <0.05 | 2.7 | 0.028 | 1.74 | 16.0 | 19.4 | 0.64 | 330 | 0.36 | 2.09 | 7.8 | 19.8 | 163 |
| C20 (8893750) | 16.5 | 0.17 | 3.6 | 0.031 | 1.65 | 13.5 | 18.7 | 0.63 | 325 | 0.55 | 1.77 | 10.6 | 26.1 | 276 |
| C21 (8893751) | 17.6 | <0.05 | 2.8 | 0.036 | 1.71 | 13.9 | 24.4 | 0.76 | 314 | 1.09 | 1.63 | 9.6 | 34.0 | 558 |
| C22 (8893752) | 19.8 | <0.05 | 3.1 | 0.036 | 1.75 | 19.0 | 34.0 | 0.88 | 370 | 0.40 | 1.92 | 10.3 | 37.7 | 213 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282580

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 04, 2018

SAMPLE TYPE: Other

| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P |
|---------------|------|-------|-----|-------|------|------|------|------|-----|------|------|------|------|------|
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 |
| C23 (8893753) | 15.4 | <0.05 | 2.2 | 0.026 | 1.55 | 7.0 | 17.5 | 0.63 | 315 | 0.36 | 2.02 | 5.1 | 17.9 | 69 |
| C24 (8893754) | 14.4 | <0.05 | 2.3 | 0.029 | 1.55 | 21.9 | 15.3 | 0.91 | 356 | 0.71 | 2.01 | 7.2 | 29.6 | 492 |
| C25 (8893755) | 19.4 | 0.11 | 3.0 | 0.039 | 1.84 | 28.2 | 34.3 | 1.10 | 385 | 0.29 | 1.74 | 10.7 | 46.3 | 234 |
| C26 (8893756) | 19.4 | 0.39 | 3.8 | 0.039 | 2.03 | 18.8 | 27.3 | 1.26 | 512 | 0.32 | 2.26 | 10.2 | 43.6 | 102 |
| D1 (8893757) | 17.4 | 0.11 | 2.8 | 0.039 | 1.69 | 13.1 | 27.5 | 0.82 | 339 | 0.74 | 1.61 | 10.0 | 46.1 | 580 |
| D2 (8893758) | 19.0 | <0.05 | 3.5 | 0.039 | 1.65 | 12.6 | 30.3 | 0.97 | 494 | 0.69 | 1.72 | 10.2 | 48.9 | 897 |
| D3 (8893759) | 15.5 | <0.05 | 1.9 | 0.029 | 1.83 | 11.3 | 18.0 | 0.78 | 306 | 0.39 | 2.01 | 6.6 | 36.8 | 335 |
| D4 (8893760) | 20.0 | 0.22 | 2.9 | 0.046 | 1.46 | 14.6 | 34.4 | 0.71 | 361 | 1.51 | 1.45 | 11.6 | 35.3 | 2060 |

Certified By:



Certificate of Analysis

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PROJECT:

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MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 04, 2018

SAMPLE TYPE: Other

| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl |
|---------------|------|------|--------|------|------|------|------|------|-----|------|-------|-----|------|------|
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm |
| RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | 0.01 |
| A1 (8893689) | 11.1 | 55.0 | <0.002 | 0.02 | 0.11 | 6.1 | 0.6 | 1.0 | 336 | 0.20 | <0.01 | 2.4 | 0.19 | 0.25 |
| A2 (8893690) | 11.5 | 53.7 | <0.002 | 0.03 | 0.10 | 7.0 | 0.8 | 1.1 | 325 | 0.45 | <0.01 | 2.5 | 0.23 | 0.26 |
| A3 (8893691) | 11.4 | 58.9 | <0.002 | 0.04 | 0.13 | 6.6 | 0.9 | 0.9 | 323 | 0.24 | <0.01 | 4.9 | 0.19 | 0.27 |
| A4 (8893692) | 11.7 | 49.4 | <0.002 | 0.05 | 0.15 | 6.2 | 0.9 | 1.1 | 281 | 0.26 | <0.01 | 2.1 | 0.21 | 0.25 |
| A5 (8893693) | 11.2 | 47.7 | <0.002 | 0.03 | 0.07 | 5.3 | 0.6 | 0.9 | 276 | 0.17 | <0.01 | 2.3 | 0.19 | 0.23 |
| A6 (8893694) | 11.8 | 57.2 | <0.002 | 0.05 | 0.29 | 9.5 | 1.3 | 1.3 | 208 | 0.36 | 0.02 | 4.1 | 0.28 | 0.25 |
| A7 (8893695) | 11.8 | 54.8 | <0.002 | 0.05 | 0.35 | 9.6 | 1.4 | 1.6 | 198 | 0.38 | <0.01 | 4.2 | 0.27 | 0.26 |
| A8 (8893696) | 11.3 | 54.8 | <0.002 | 0.03 | 0.17 | 8.7 | 1.0 | 1.2 | 287 | 0.34 | 0.01 | 3.7 | 0.28 | 0.26 |
| A9 (8893697) | 11.0 | 54.0 | <0.002 | 0.03 | 0.23 | 8.6 | 1.0 | 1.1 | 318 | 0.31 | 0.02 | 3.6 | 0.25 | 0.23 |
| A10 (8893698) | 12.1 | 52.8 | <0.002 | 0.03 | 0.15 | 7.6 | 1.0 | 1.1 | 351 | 0.25 | 0.02 | 6.1 | 0.22 | 0.25 |
| A11 (8893699) | 14.2 | 62.0 | <0.002 | 0.03 | 0.22 | 9.2 | 0.8 | 1.3 | 322 | 0.29 | <0.01 | 5.0 | 0.24 | 0.29 |
| A12 (8893700) | 14.1 | 55.4 | <0.002 | 0.03 | 0.27 | 11.2 | 1.2 | 1.3 | 258 | 0.32 | 0.02 | 7.6 | 0.31 | 0.25 |
| A13 (8893701) | 19.6 | 58.8 | <0.002 | 0.03 | 0.31 | 10.8 | 1.4 | 1.3 | 269 | 0.36 | 0.04 | 7.8 | 0.30 | 0.28 |
| A14 (8893702) | 11.6 | 55.1 | <0.002 | 0.03 | 0.17 | 8.7 | 0.6 | 1.0 | 347 | 0.26 | <0.01 | 4.0 | 0.25 | 0.24 |
| A15 (8893703) | 12.1 | 54.6 | <0.002 | 0.03 | 0.16 | 8.6 | 0.7 | 1.0 | 332 | 0.27 | <0.01 | 3.3 | 0.25 | 0.26 |
| A16 (8893704) | 13.5 | 51.8 | <0.002 | 0.03 | 0.16 | 7.8 | 1.3 | 1.2 | 350 | 0.23 | <0.01 | 3.5 | 0.21 | 0.24 |
| A17 (8893705) | 11.7 | 50.6 | <0.002 | 0.04 | 0.11 | 7.7 | 1.0 | 0.9 | 323 | 0.29 | <0.01 | 4.2 | 0.21 | 0.24 |
| A18 (8893706) | 18.4 | 50.6 | <0.002 | 0.04 | 0.19 | 9.2 | 1.2 | 1.3 | 312 | 0.37 | 0.02 | 4.4 | 0.30 | 0.25 |
| A19 (8893707) | 11.0 | 53.1 | <0.002 | 0.03 | 0.13 | 7.8 | 0.7 | 1.0 | 340 | 0.26 | <0.01 | 2.1 | 0.24 | 0.23 |
| A20 (8893708) | 11.8 | 56.5 | <0.002 | 0.03 | 0.14 | 6.5 | 0.7 | 1.0 | 361 | 0.24 | <0.01 | 2.7 | 0.22 | 0.27 |
| A21 (8893709) | 12.0 | 54.0 | <0.002 | 0.04 | 0.22 | 7.9 | 0.7 | 1.2 | 288 | 0.34 | <0.01 | 5.4 | 0.27 | 0.25 |
| B3 (8893710) | 15.0 | 63.2 | <0.002 | 0.09 | 0.31 | 9.3 | 1.3 | 1.4 | 343 | 0.28 | <0.01 | 8.7 | 0.24 | 0.30 |
| B4 (8893711) | 12.9 | 68.5 | <0.002 | 0.05 | 0.14 | 10.0 | 1.2 | 1.0 | 352 | 0.28 | <0.01 | 4.0 | 0.25 | 0.31 |
| B5 (8893712) | 11.3 | 56.0 | <0.002 | 0.12 | 0.14 | 11.6 | <0.5 | 1.1 | 356 | 0.32 | <0.01 | 3.8 | 0.31 | 0.27 |
| B6 (8893713) | 13.1 | 67.9 | <0.002 | 0.28 | 0.11 | 9.4 | 0.9 | 13.7 | 334 | 0.40 | <0.01 | 5.8 | 0.25 | 0.31 |
| B7 (8893714) | 14.4 | 57.1 | <0.002 | 0.09 | 0.16 | 12.1 | 1.0 | 1.2 | 373 | 0.32 | <0.01 | 4.5 | 0.31 | 0.24 |
| B8 (8893715) | 15.4 | 59.8 | <0.002 | 0.03 | 0.35 | 10.4 | 0.6 | 1.4 | 203 | 0.38 | <0.01 | 4.0 | 0.32 | 0.26 |
| B9 (8893716) | 12.8 | 55.3 | <0.002 | 0.03 | 0.26 | 10.0 | 0.8 | 1.3 | 256 | 0.37 | <0.01 | 5.2 | 0.37 | 0.24 |
| B10 (8893717) | 13.2 | 54.8 | <0.002 | 0.04 | 0.28 | 9.5 | 1.3 | 1.2 | 261 | 0.38 | <0.01 | 4.8 | 0.30 | 0.27 |
| B11 (8893718) | 14.7 | 51.8 | <0.002 | 0.04 | 0.29 | 8.6 | 0.7 | 1.2 | 292 | 0.38 | 0.03 | 5.5 | 0.31 | 0.27 |
| B12 (8893719) | 15.6 | 77.5 | <0.002 | 0.05 | 0.40 | 13.5 | 1.4 | 1.8 | 334 | 0.68 | 0.02 | 6.7 | 0.38 | 0.35 |
| B13 (8893720) | 14.8 | 56.4 | <0.002 | 0.03 | 0.23 | 7.1 | 0.8 | 1.0 | 371 | 0.27 | 0.04 | 2.6 | 0.19 | 0.28 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282580

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
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FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 04, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|------|--------|------|------|-----------------------------|-----|-----|-----|------|--------------------|-----|------|------|--|
| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl | |
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | |
| RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | 0.01 | |
| B14 (8893721) | 13.7 | 61.4 | <0.002 | 0.03 | 0.37 | 10.0 | 1.1 | 1.5 | 273 | 0.41 | 0.01 | 5.4 | 0.33 | 0.29 | |
| B15 (8893722) | 17.5 | 51.2 | <0.002 | 0.03 | 0.23 | 8.2 | 0.9 | 1.6 | 263 | 0.74 | 0.01 | 9.3 | 0.34 | 0.26 | |
| B16 (8893723) | 16.7 | 61.8 | <0.002 | 0.03 | 0.30 | 9.2 | 1.0 | 1.5 | 234 | 0.46 | 0.05 | 7.0 | 0.39 | 0.29 | |
| B17 (8893724) | 11.1 | 53.6 | <0.002 | 0.03 | 0.09 | 7.4 | 0.7 | 0.8 | 330 | 0.22 | <0.01 | 4.4 | 0.21 | 0.24 | |
| B18 (8893725) | 10.9 | 50.5 | <0.002 | 0.03 | 0.13 | 7.7 | 0.8 | 0.9 | 314 | 0.30 | 0.01 | 2.9 | 0.23 | 0.22 | |
| B19 (8893726) | 14.2 | 46.3 | <0.002 | 0.10 | 0.19 | 10.9 | 1.2 | 1.3 | 234 | 0.45 | <0.01 | 6.1 | 0.39 | 0.25 | |
| B20 (8893727) | 12.9 | 35.8 | <0.002 | 0.06 | 0.18 | 8.7 | 1.1 | 1.1 | 210 | 0.29 | 0.01 | 3.2 | 0.26 | 0.17 | |
| B21 (8893728) | 13.7 | 49.6 | <0.002 | 0.04 | 0.11 | 9.0 | 0.9 | 1.1 | 309 | 0.43 | 0.01 | 5.6 | 0.26 | 0.24 | |
| B22 (8893729) | 14.9 | 48.2 | <0.002 | 0.06 | 0.28 | 10.6 | 1.2 | 1.4 | 228 | 1.89 | 0.04 | 9.1 | 0.40 | 0.23 | |
| B23 (8893730) | 12.4 | 59.8 | <0.002 | 0.04 | 0.43 | 11.6 | 1.2 | 1.6 | 201 | 0.41 | 0.03 | 4.7 | 0.33 | 0.27 | |
| C1 (8893731) | 12.8 | 47.7 | <0.002 | 0.06 | 0.38 | 8.1 | 1.3 | 1.6 | 237 | 0.38 | <0.01 | 3.5 | 0.26 | 0.24 | |
| C2 (8893732) | 14.2 | 58.7 | <0.002 | 0.03 | 0.37 | 8.1 | 1.2 | 1.4 | 231 | 0.43 | 0.09 | 3.5 | 0.31 | 0.28 | |
| C3 (8893733) | 16.4 | 56.1 | <0.002 | 0.03 | 0.21 | 9.9 | 0.8 | 1.4 | 299 | 0.35 | <0.01 | 5.4 | 0.32 | 0.28 | |
| C4 (8893734) | 20.3 | 70.9 | <0.002 | 0.04 | 0.36 | 10.8 | 1.0 | 1.7 | 230 | 1.34 | 0.02 | 6.0 | 0.44 | 0.36 | |
| C5 (8893735) | 16.8 | 73.8 | <0.002 | 0.03 | 0.28 | 8.0 | 1.4 | 1.6 | 248 | 0.42 | 0.02 | 3.9 | 0.30 | 0.32 | |
| C6 (8893736) | 17.2 | 69.7 | <0.002 | 0.03 | 0.32 | 9.4 | 1.4 | 1.6 | 254 | 0.49 | 0.01 | 4.5 | 0.34 | 0.33 | |
| C7 (8893737) | 19.9 | 68.0 | <0.002 | 0.03 | 0.46 | 9.5 | 1.1 | 1.6 | 252 | 0.46 | 0.02 | 4.5 | 0.34 | 0.30 | |
| C8 (8893738) | 20.3 | 70.0 | <0.002 | 0.03 | 0.39 | 10.1 | 1.4 | 1.8 | 243 | 0.49 | 0.08 | 5.5 | 0.42 | 0.29 | |
| C9 (8893739) | 18.9 | 71.5 | <0.002 | 0.04 | 0.27 | 10.7 | 0.9 | 1.4 | 275 | 0.44 | <0.01 | 4.5 | 0.40 | 0.29 | |
| C10 (8893740) | 15.7 | 63.0 | <0.002 | 0.04 | 0.27 | 11.0 | 0.9 | 1.4 | 257 | 0.45 | 0.04 | 5.7 | 0.45 | 0.27 | |
| C11 (8893741) | 19.6 | 73.4 | <0.002 | 0.07 | 0.64 | 16.8 | 1.5 | 2.1 | 195 | 0.61 | 0.05 | 5.4 | 0.52 | 0.37 | |
| C12 (8893742) | 19.9 | 75.5 | 0.022 | 0.03 | 0.36 | 9.9 | 1.2 | 1.6 | 231 | 0.58 | 0.07 | 3.7 | 0.34 | 0.37 | |
| C13 (8893743) | 21.4 | 69.6 | <0.002 | 0.04 | 0.61 | 9.2 | 1.2 | 1.7 | 250 | 0.60 | 0.06 | 9.4 | 0.35 | 0.31 | |
| C14 (8893744) | 19.8 | 55.1 | <0.002 | 0.05 | 0.43 | 11.4 | 2.3 | 1.5 | 149 | 1.95 | 0.07 | 7.0 | 0.55 | 0.23 | |
| C15 (8893745) | 26.0 | 79.2 | <0.002 | 0.05 | 0.47 | 11.0 | 1.6 | 1.8 | 202 | 0.51 | 0.05 | 5.3 | 0.31 | 0.35 | |
| C16 (8893746) | 13.9 | 61.7 | <0.002 | 0.04 | 0.25 | 9.2 | 1.0 | 1.3 | 240 | 0.44 | 0.01 | 4.7 | 0.29 | 0.29 | |
| C17 (8893747) | 14.2 | 63.4 | <0.002 | 0.03 | 0.23 | 9.2 | 1.1 | 1.3 | 246 | 0.39 | 0.03 | 8.2 | 0.29 | 0.31 | |
| C18 (8893748) | 14.1 | 59.0 | <0.002 | 0.04 | 0.20 | 9.3 | 1.2 | 1.4 | 288 | 1.52 | <0.01 | 6.6 | 0.33 | 0.25 | |
| C19 (8893749) | 17.4 | 69.2 | <0.002 | 0.03 | 0.27 | 8.0 | 1.1 | 1.4 | 310 | 0.30 | <0.01 | 6.3 | 0.33 | 0.28 | |
| C20 (8893750) | 14.8 | 59.0 | <0.002 | 0.03 | 0.80 | 8.4 | 0.8 | 1.3 | 262 | 0.61 | <0.01 | 5.3 | 0.34 | 0.26 | |
| C21 (8893751) | 18.1 | 69.7 | <0.002 | 0.03 | 0.27 | 9.1 | 1.2 | 1.3 | 245 | 0.45 | 0.03 | 4.0 | 0.35 | 0.30 | |
| C22 (8893752) | 18.6 | 70.5 | <0.002 | 0.04 | 0.31 | 9.3 | 0.9 | 1.5 | 281 | 0.47 | 0.05 | 7.2 | 0.35 | 0.31 | |

Certified By:

Certificate of Analysis

AGAT WORK ORDER: 17T282580

PROJECT:

 5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

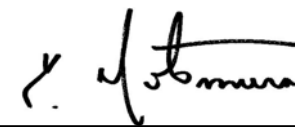
DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 04, 2018

SAMPLE TYPE: Other

| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl |
|---------------------|------|------|--------|------|------|------|-----|-----|-----|------|-------|-----|------|------|
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm |
| RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | 0.01 |
| Sample ID (AGAT ID) | | | | | | | | | | | | | | |
| C23 (8893753) | 11.5 | 60.5 | <0.002 | 0.03 | 0.19 | 8.2 | 0.5 | 1.0 | 266 | 0.18 | <0.01 | 2.2 | 0.31 | 0.25 |
| C24 (8893754) | 11.3 | 58.0 | <0.002 | 0.12 | 0.18 | 10.1 | 0.9 | 1.0 | 304 | 0.32 | 0.01 | 5.0 | 0.28 | 0.25 |
| C25 (8893755) | 15.3 | 79.7 | <0.002 | 0.03 | 0.41 | 13.2 | 1.0 | 1.6 | 233 | 0.54 | 0.03 | 7.8 | 0.34 | 0.43 |
| C26 (8893756) | 13.5 | 72.7 | <0.002 | 0.03 | 0.26 | 13.5 | 1.0 | 1.8 | 309 | 0.49 | <0.01 | 6.3 | 0.41 | 0.36 |
| D1 (8893757) | 15.4 | 65.1 | <0.002 | 0.04 | 0.29 | 9.3 | 1.2 | 1.5 | 235 | 0.47 | 0.03 | 4.3 | 0.34 | 0.30 |
| D2 (8893758) | 15.0 | 68.8 | <0.002 | 0.04 | 0.31 | 11.1 | 1.9 | 1.5 | 262 | 0.45 | 0.05 | 4.2 | 0.42 | 0.27 |
| D3 (8893759) | 13.9 | 67.0 | <0.002 | 0.03 | 0.15 | 7.7 | 0.6 | 1.0 | 307 | 0.29 | 0.02 | 5.1 | 0.24 | 0.30 |
| D4 (8893760) | 16.5 | 60.5 | <0.002 | 0.05 | 0.34 | 9.8 | 1.7 | 1.7 | 209 | 0.54 | 0.36 | 5.0 | 0.44 | 0.25 |

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 17T282580

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 04, 2018

SAMPLE TYPE: Other

| Analyte: | U | V | W | Y | Zn | Zr |
|---------------------|-------|------|------|------|------|------|
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm |
| RDL: | 0.005 | 0.5 | 0.1 | 0.1 | 0.5 | 0.5 |
| Sample ID (AGAT ID) | | | | | | |
| A1 (8893689) | 0.520 | 35.5 | 0.1 | 8.4 | 20.5 | 99.5 |
| A2 (8893690) | 0.620 | 51.1 | 0.1 | 9.0 | 23.1 | 126 |
| A3 (8893691) | 0.632 | 44.5 | 0.1 | 9.6 | 23.1 | 124 |
| A4 (8893692) | 0.520 | 53.4 | 0.1 | 7.6 | 25.5 | 71.0 |
| A5 (8893693) | 0.614 | 38.2 | <0.1 | 6.8 | 16.7 | 98.8 |
| A6 (8893694) | 1.10 | 68.0 | 0.4 | 12.3 | 34.5 | 116 |
| A7 (8893695) | 1.26 | 69.9 | 0.4 | 13.7 | 60.8 | 129 |
| A8 (8893696) | 0.907 | 60.9 | 0.3 | 11.3 | 47.6 | 159 |
| A9 (8893697) | 0.799 | 57.7 | 0.2 | 13.4 | 30.3 | 155 |
| A10 (8893698) | 0.669 | 58.2 | 0.2 | 11.6 | 30.7 | 97.0 |
| A11 (8893699) | 0.971 | 59.7 | 0.2 | 14.6 | 40.2 | 129 |
| A12 (8893700) | 1.39 | 76.2 | 0.3 | 20.4 | 44.9 | 153 |
| A13 (8893701) | 1.52 | 70.2 | 0.3 | 26.8 | 204 | 159 |
| A14 (8893702) | 0.968 | 55.1 | 0.2 | 16.9 | 33.2 | 128 |
| A15 (8893703) | 0.848 | 55.3 | 0.2 | 13.5 | 39.1 | 149 |
| A16 (8893704) | 0.678 | 49.4 | 0.1 | 12.5 | 26.4 | 115 |
| A17 (8893705) | 0.811 | 50.4 | 0.1 | 11.1 | 33.6 | 105 |
| A18 (8893706) | 1.12 | 70.5 | 0.4 | 13.9 | 43.8 | 197 |
| A19 (8893707) | 0.626 | 61.1 | 0.1 | 11.4 | 52.9 | 105 |
| A20 (8893708) | 0.566 | 55.5 | 0.1 | 9.5 | 30.8 | 88.8 |
| A21 (8893709) | 1.00 | 59.4 | 0.4 | 11.2 | 64.8 | 162 |
| B3 (8893710) | 1.90 | 65.0 | 0.4 | 16.5 | 47.8 | 133 |
| B4 (8893711) | 1.06 | 57.9 | 0.5 | 17.3 | 40.6 | 119 |
| B5 (8893712) | 0.872 | 98.0 | 0.3 | 16.5 | 41.2 | 121 |
| B6 (8893713) | 0.896 | 57.5 | 0.2 | 16.0 | 39.9 | 136 |
| B7 (8893714) | 0.933 | 81.3 | 0.2 | 20.9 | 38.5 | 198 |
| B8 (8893715) | 1.21 | 84.3 | 0.6 | 14.1 | 51.0 | 138 |
| B9 (8893716) | 1.01 | 77.4 | 0.3 | 15.5 | 37.5 | 195 |
| B10 (8893717) | 1.03 | 68.7 | 0.3 | 13.1 | 48.3 | 143 |
| B11 (8893718) | 1.14 | 81.0 | 0.2 | 12.1 | 50.1 | 210 |
| B12 (8893719) | 1.63 | 88.7 | 0.5 | 19.0 | 49.6 | 222 |
| B13 (8893720) | 0.660 | 49.7 | 0.2 | 9.8 | 33.8 | 91.2 |

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Certificate of Analysis

AGAT WORK ORDER: 17T282580

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
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<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 04, 2018

SAMPLE TYPE: Other

| Analyte: | U | V | W | Y | Zn | Zr |
|---------------------|-------|------|-----|------|------|-----|
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm |
| RDL: | 0.005 | 0.5 | 0.1 | 0.1 | 0.5 | 0.5 |
| Sample ID (AGAT ID) | | | | | | |
| B14 (8893721) | 1.16 | 75.1 | 0.3 | 16.5 | 54.3 | 184 |
| B15 (8893722) | 1.28 | 65.1 | 0.4 | 14.7 | 56.2 | 154 |
| B16 (8893723) | 1.26 | 88.9 | 0.4 | 12.1 | 41.5 | 177 |
| B17 (8893724) | 0.747 | 40.4 | 0.1 | 10.9 | 22.8 | 128 |
| B18 (8893725) | 0.660 | 44.0 | 0.2 | 10.9 | 24.4 | 125 |
| B19 (8893726) | 1.38 | 62.7 | 0.3 | 13.3 | 34.7 | 145 |
| B20 (8893727) | 0.823 | 84.3 | 0.2 | 9.4 | 33.8 | 128 |
| B21 (8893728) | 1.01 | 51.5 | 0.2 | 13.3 | 29.8 | 116 |
| B22 (8893729) | 1.27 | 99.7 | 0.4 | 14.6 | 57.8 | 179 |
| B23 (8893730) | 1.39 | 91.8 | 0.5 | 18.3 | 72.2 | 157 |
| C1 (8893731) | 0.846 | 53.5 | 0.3 | 9.6 | 64.6 | 131 |
| C2 (8893732) | 0.946 | 83.9 | 0.4 | 9.4 | 57.3 | 142 |
| C3 (8893733) | 1.02 | 70.2 | 0.3 | 13.3 | 42.0 | 183 |
| C4 (8893734) | 1.04 | 92.2 | 0.4 | 12.4 | 63.5 | 148 |
| C5 (8893735) | 0.922 | 66.0 | 0.4 | 10.9 | 45.8 | 177 |
| C6 (8893736) | 1.03 | 76.3 | 0.4 | 12.6 | 48.7 | 167 |
| C7 (8893737) | 1.01 | 80.1 | 0.3 | 12.9 | 56.7 | 176 |
| C8 (8893738) | 1.02 | 105 | 0.4 | 13.8 | 56.0 | 189 |
| C9 (8893739) | 1.01 | 76.1 | 0.3 | 13.4 | 68.4 | 186 |
| C10 (8893740) | 1.03 | 82.4 | 0.3 | 13.9 | 53.0 | 173 |
| C11 (8893741) | 1.61 | 121 | 0.7 | 16.5 | 73.0 | 171 |
| C12 (8893742) | 1.05 | 80.2 | 0.5 | 12.7 | 63.6 | 144 |
| C13 (8893743) | 1.23 | 78.5 | 0.4 | 12.9 | 74.7 | 178 |
| C14 (8893744) | 1.36 | 99.1 | 1.1 | 12.0 | 85.3 | 139 |
| C15 (8893745) | 1.20 | 87.4 | 0.5 | 13.0 | 105 | 115 |
| C16 (8893746) | 1.02 | 68.5 | 0.4 | 12.6 | 74.3 | 174 |
| C17 (8893747) | 1.08 | 62.8 | 0.3 | 13.1 | 65.5 | 185 |
| C18 (8893748) | 1.20 | 75.8 | 0.5 | 15.3 | 61.3 | 220 |
| C19 (8893749) | 0.805 | 46.5 | 0.2 | 11.7 | 43.0 | 159 |
| C20 (8893750) | 0.960 | 65.9 | 0.3 | 11.4 | 32.8 | 209 |
| C21 (8893751) | 1.03 | 76.8 | 0.4 | 13.1 | 66.2 | 161 |
| C22 (8893752) | 0.953 | 58.4 | 0.3 | 14.1 | 53.9 | 170 |

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Certificate of Analysis

AGAT WORK ORDER: 17T282580

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
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<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 04, 2018

SAMPLE TYPE: Other

| Analyte: | U | V | W | Y | Zn | Zr |
|---------------------|-------|------|-----|------|------|-----|
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm |
| Sample ID (AGAT ID) | RDL: | | | | | |
| C23 (8893753) | 0.747 | 48.2 | 0.1 | 9.9 | 30.1 | 122 |
| C24 (8893754) | 1.05 | 64.0 | 0.2 | 19.1 | 34.6 | 133 |
| C25 (8893755) | 1.96 | 86.4 | 0.6 | 22.1 | 45.1 | 170 |
| C26 (8893756) | 1.47 | 92.5 | 0.4 | 20.4 | 42.9 | 228 |
| D1 (8893757) | 0.963 | 74.6 | 0.4 | 12.3 | 65.1 | 155 |
| D2 (8893758) | 1.08 | 104 | 0.3 | 16.6 | 49.1 | 197 |
| D3 (8893759) | 0.663 | 56.8 | 0.2 | 9.2 | 33.6 | 103 |
| D4 (8893760) | 1.17 | 121 | 0.5 | 12.9 | 106 | 159 |

Comments: RDL - Reported Detection Limit

8893689-8893760 As, Sb values may be low due to digestion losses.

Certified By:



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| Parameter | REPLICATE #1 | | | | REPLICATE #2 | | | | REPLICATE #3 | | | | REPLICATE #4 | | | |
|-----------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|
| | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD |
| Ag | 8893689 | 0.24 | 0.11 | | 8893709 | 0.43 | 0.45 | 4.5% | 8893729 | 0.338 | 0.285 | 17.0% | 8893750 | 0.24 | 0.24 | 0.0% |
| Al | 8893689 | 5.79 | 5.87 | 1.4% | 8893709 | 6.26 | 6.19 | 1.1% | 8893729 | 7.70 | 7.58 | 1.6% | 8893750 | 6.25 | 6.42 | 2.7% |
| As | 8893689 | 0.9 | 0.8 | 11.8% | 8893709 | 2.7 | 2.1 | 25.0% | 8893729 | 6.88 | 5.11 | 29.5% | 8893750 | 2.9 | 2.4 | 18.9% |
| Ba | 8893689 | 541 | 533 | 1.5% | 8893709 | 484 | 479 | 1.0% | 8893729 | 403 | 382 | 5.4% | 8893750 | 492 | 513 | 4.2% |
| Be | 8893689 | 1.17 | 1.09 | 7.1% | 8893709 | 1.28 | 1.34 | 4.6% | 8893729 | 1.52 | 1.42 | 6.8% | 8893750 | 1.18 | 1.39 | 16.3% |
| Bi | 8893689 | 0.063 | 0.055 | 13.6% | 8893709 | 0.10 | 0.10 | 0.0% | 8893729 | 0.16 | 0.16 | 0.0% | 8893750 | 0.103 | 0.108 | 4.7% |
| Ca | 8893689 | 1.45 | 1.45 | 0.0% | 8893709 | 1.42 | 1.39 | 2.1% | 8893729 | 1.24 | 1.21 | 2.4% | 8893750 | 1.33 | 1.37 | 3.0% |
| Cd | 8893689 | 0.028 | 0.036 | 25.0% | 8893709 | 0.145 | 0.137 | 5.7% | 8893729 | 0.171 | 0.165 | 3.6% | 8893750 | 0.079 | 0.095 | 18.4% |
| Ce | 8893689 | 17.4 | 16.9 | 2.9% | 8893709 | 28.1 | 25.5 | 9.7% | 8893729 | 45.1 | 39.1 | 14.3% | 8893750 | 28.0 | 33.2 | 17.0% |
| Co | 8893689 | 6.46 | 6.65 | 2.9% | 8893709 | 14.0 | 13.5 | 3.6% | 8893729 | 20.5 | 19.3 | 6.0% | 8893750 | 11.6 | 12.3 | 5.9% |
| Cr | 8893689 | 39.8 | 40.8 | 2.5% | 8893709 | 60.5 | 55.5 | 8.6% | 8893729 | 111 | 103 | 7.5% | 8893750 | 69.8 | 74.1 | 6.0% |
| Cs | 8893689 | 1.05 | 1.07 | 1.9% | 8893709 | 1.46 | 1.50 | 2.7% | 8893729 | 1.70 | 1.60 | 6.1% | 8893750 | 1.74 | 1.85 | 6.1% |
| Cu | 8893689 | 3.3 | 2.9 | 12.9% | 8893709 | 8.3 | 8.2 | 1.2% | 8893729 | 17.0 | 16.7 | 1.8% | 8893750 | 7.72 | 8.22 | 6.3% |
| Fe | 8893689 | 1.22 | 1.24 | 1.6% | 8893709 | 2.26 | 2.23 | 1.3% | 8893729 | 4.50 | 4.43 | 1.6% | 8893750 | 2.22 | 2.27 | 2.2% |
| Ga | 8893689 | 13.8 | 14.7 | 6.3% | 8893709 | 15.4 | 15.2 | 1.3% | 8893729 | 16.4 | 15.3 | 6.9% | 8893750 | 16.5 | 17.3 | 4.7% |
| Ge | 8893689 | 0.229 | 0.256 | 11.1% | 8893709 | 0.591 | 0.541 | 8.8% | 8893729 | 0.72 | 0.72 | 0.0% | 8893750 | 0.17 | 0.15 | 12.5% |
| Hf | 8893689 | 1.83 | 1.86 | 1.6% | 8893709 | 3.10 | 2.61 | 17.2% | 8893729 | 3.32 | 3.72 | 11.4% | 8893750 | 3.61 | 3.12 | 14.6% |
| In | 8893689 | 0.0193 | 0.0201 | 4.1% | 8893709 | 0.032 | 0.032 | 0.0% | 8893729 | 0.0449 | 0.0445 | 0.9% | 8893750 | 0.031 | 0.031 | 0.0% |
| K | 8893689 | 1.72 | 1.71 | 0.6% | 8893709 | 1.58 | 1.57 | 0.6% | 8893729 | 1.35 | 1.28 | 5.3% | 8893750 | 1.65 | 1.69 | 2.4% |
| La | 8893689 | 8.5 | 8.1 | 4.8% | 8893709 | 13.7 | 12.2 | 11.6% | 8893729 | 21.7 | 18.9 | 13.8% | 8893750 | 13.5 | 16.4 | 19.4% |
| Li | 8893689 | 9.3 | 9.3 | 0.0% | 8893709 | 13.9 | 13.8 | 0.7% | 8893729 | 31.1 | 30.1 | 3.3% | 8893750 | 18.7 | 19.3 | 3.2% |
| Mg | 8893689 | 0.522 | 0.526 | 0.8% | 8893709 | 0.57 | 0.57 | 0.0% | 8893729 | 0.775 | 0.754 | 2.7% | 8893750 | 0.63 | 0.65 | 3.1% |
| Mn | 8893689 | 250 | 253 | 1.2% | 8893709 | 696 | 667 | 4.3% | 8893729 | 418 | 415 | 0.7% | 8893750 | 325 | 325 | 0.0% |
| Mo | 8893689 | 0.31 | 0.31 | 0.0% | 8893709 | 0.69 | 0.72 | 4.3% | 8893729 | 0.94 | 0.89 | 5.5% | 8893750 | 0.553 | 0.641 | 14.7% |
| Na | 8893689 | 2.27 | 2.28 | 0.4% | 8893709 | 1.95 | 1.90 | 2.6% | 8893729 | 1.51 | 1.46 | 3.4% | 8893750 | 1.77 | 1.83 | 3.3% |
| Nb | 8893689 | 4.44 | 5.03 | 12.5% | 8893709 | 7.42 | 8.16 | 9.5% | 8893729 | 15.8 | 14.0 | 12.1% | 8893750 | 10.6 | 10.0 | 5.8% |
| Ni | 8893689 | 16.2 | 16.2 | 0.0% | 8893709 | 21.2 | 21.2 | 0.0% | 8893729 | 46.2 | 41.2 | 11.4% | 8893750 | 26.1 | 27.3 | 4.5% |
| P | 8893689 | 228 | 208 | 9.2% | 8893709 | 512 | 517 | 1.0% | 8893729 | 612 | 594 | 3.0% | 8893750 | 276 | 292 | 5.6% |
| Pb | 8893689 | 11.1 | 11.1 | 0.0% | 8893709 | 12.0 | 11.5 | 4.3% | 8893729 | 14.9 | 14.0 | 6.2% | 8893750 | 14.8 | 15.8 | 6.5% |
| Rb | 8893689 | 55.0 | 55.8 | 1.4% | 8893709 | 54.0 | 56.6 | 4.7% | 8893729 | 48.2 | 45.0 | 6.9% | 8893750 | 59.0 | 63.9 | 8.0% |
| Re | 8893689 | < 0.002 | < 0.002 | 0.0% | 8893709 | < 0.002 | < 0.002 | 0.0% | 8893729 | < 0.002 | < 0.002 | 0.0% | 8893750 | < 0.002 | < 0.002 | 0.0% |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

| | | | | | | | | | | | | | | | | |
|----|---------|--------|--------|-------|---------|--------|-------|-------|---------|-------|-------|-------|---------|--------|-------|-------|
| S | 8893689 | 0.02 | 0.02 | 0.0% | 8893709 | 0.04 | 0.04 | 0.0% | 8893729 | 0.06 | 0.06 | 0.0% | 8893750 | 0.03 | 0.03 | 0.0% |
| Sb | 8893689 | 0.110 | 0.084 | 26.8% | 8893709 | 0.224 | 0.241 | 7.3% | 8893729 | 0.278 | 0.260 | 6.7% | 8893750 | 0.80 | 0.50 | |
| Sc | 8893689 | 6.14 | 6.27 | 2.1% | 8893709 | 7.9 | 7.9 | 0.0% | 8893729 | 10.6 | 10.4 | 1.9% | 8893750 | 8.4 | 8.6 | 2.4% |
| Se | 8893689 | 0.6 | 0.8 | 28.6% | 8893709 | 0.7 | 1.2 | | 8893729 | 1.2 | 1.3 | 8.0% | 8893750 | 0.85 | 1.02 | 18.2% |
| Sn | 8893689 | 1.0 | 1.2 | 18.2% | 8893709 | 1.21 | 1.35 | 10.9% | 8893729 | 1.41 | 1.33 | 5.8% | 8893750 | 1.3 | 1.5 | 14.3% |
| Sr | 8893689 | 336 | 346 | 2.9% | 8893709 | 288 | 288 | 0.0% | 8893729 | 228 | 227 | 0.4% | 8893750 | 262 | 275 | 4.8% |
| Ta | 8893689 | 0.20 | 0.23 | 14.0% | 8893709 | 0.343 | 0.351 | 2.3% | 8893729 | 1.89 | 1.51 | 22.4% | 8893750 | 0.61 | 0.50 | 19.8% |
| Te | 8893689 | < 0.01 | < 0.01 | 0.0% | 8893709 | < 0.01 | 0.01 | | 8893729 | 0.04 | 0.03 | | 8893750 | < 0.01 | 0.02 | |
| Th | 8893689 | 2.4 | 2.1 | 13.3% | 8893709 | 5.4 | 4.6 | 16.0% | 8893729 | 9.1 | 7.7 | 16.7% | 8893750 | 5.3 | 6.2 | 15.7% |
| Ti | 8893689 | 0.19 | 0.19 | 0.0% | 8893709 | 0.272 | 0.277 | 1.8% | 8893729 | 0.40 | 0.40 | 0.0% | 8893750 | 0.339 | 0.333 | 1.8% |
| Tl | 8893689 | 0.25 | 0.26 | 3.9% | 8893709 | 0.25 | 0.25 | 0.0% | 8893729 | 0.23 | 0.22 | 4.4% | 8893750 | 0.26 | 0.28 | 7.4% |
| U | 8893689 | 0.520 | 0.525 | 1.0% | 8893709 | 1.00 | 0.838 | 17.6% | 8893729 | 1.27 | 1.10 | 14.3% | 8893750 | 0.960 | 0.955 | 0.5% |
| V | 8893689 | 35.5 | 36.4 | 2.5% | 8893709 | 59.4 | 61.5 | 3.5% | 8893729 | 99.7 | 95.9 | 3.9% | 8893750 | 65.9 | 67.0 | 1.7% |
| W | 8893689 | 0.1 | 0.1 | 0.0% | 8893709 | 0.4 | 0.2 | | 8893729 | 0.4 | 0.4 | 0.0% | 8893750 | 0.3 | 0.3 | 0.0% |
| Y | 8893689 | 8.4 | 9.1 | 8.0% | 8893709 | 11.2 | 10.8 | 3.6% | 8893729 | 14.6 | 13.6 | 7.1% | 8893750 | 11.4 | 12.6 | 10.0% |
| Zn | 8893689 | 20.5 | 19.3 | 6.0% | 8893709 | 64.8 | 64.0 | 1.2% | 8893729 | 57.8 | 55.8 | 3.5% | 8893750 | 32.8 | 36.7 | 11.2% |
| Zr | 8893689 | 99.5 | 96.9 | 2.6% | 8893709 | 162 | 152 | 6.4% | 8893729 | 179 | 186 | 3.8% | 8893750 | 209 | 186 | 11.6% |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| Parameter | CRM #1 (ref.SY-4) | | | | CRM #2 (ref.GTS-2A) | | | | CRM #3 (ref.Till-2) | | | | CRM #4 (ref.SY-4) | | | |
|-----------|---------------------|--------|----------|------------|---------------------|--------|----------|------------|---------------------|--------|----------|------------|---------------------|--------|----------|------------|
| | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits |
| Al | 10.95 | 10.4 | 95% | 90% - 110% | 6.96 | 6.91 | 99% | 90% - 110% | | | | | | | | |
| As | | | | | 124 | 124 | 100% | 90% - 110% | | | | | | | | |
| Ba | 340 | 323 | 95% | 90% - 110% | 186 | 185 | 100% | 90% - 110% | | | | | | | | |
| Be | 2.6 | 2.8 | 107% | 90% - 110% | | | | | | | | | | | | |
| Ca | 5.72 | 5.39 | 94% | 90% - 110% | 4.01 | 4 | 100% | 90% - 110% | | | | | | | | |
| Ce | 122 | 127 | 104% | 90% - 110% | 24 | 24 | 100% | 90% - 110% | | | | | | | | |
| Co | 2.8 | 3 | 107% | 90% - 110% | 22.1 | 24.1 | 109% | 90% - 110% | | | | | 2.8 | 3.0 | 107% | 90% - 110% |
| Cs | 1.5 | 1.7 | 113% | 90% - 110% | | | | | | | | | | | | |
| Cu | 7 | 5 | 73% | 90% - 110% | 88.6 | 85.7 | 97% | 90% - 110% | | | | | | | | |
| Fe | 4.34 | 3.77 | 86% | 90% - 110% | 7.56 | 7 | 93% | 90% - 110% | | | | | | | | |
| Ga | 35 | 38 | 108% | 90% - 110% | | | | | | | | | | | | |
| K | 1.37 | 1.35 | 98% | 90% - 110% | 2.021 | 2.031 | 101% | 90% - 110% | | | | | | | | |
| La | 58 | 60 | 103% | 90% - 110% | | | | | | | | | | | | |
| Li | 37 | 37 | 101% | 90% - 110% | | | | | | | | | | | | |
| Mg | 0.325 | 0.291 | 90% | 90% - 110% | 2.412 | 2.436 | 101% | 90% - 110% | | | | | | | | |
| Mn | | | | | 1510 | 1402 | 93% | 90% - 110% | | | | | | | | |
| Na | 5.267 | 5.213 | 99% | 90% - 110% | 0.617 | 0.635 | 103% | 90% - 110% | | | | | | | | |
| Ni | 9 | 7 | 79% | 90% - 110% | 77.1 | 71.1 | 92% | 90% - 110% | | | | | | | | |
| P | | | | | 892 | 938 | 105% | 90% - 110% | | | | | | | | |
| Pb | 10 | 10 | 97% | 90% - 110% | | | | | | | | | | | | |
| Rb | 55 | 57.9 | 105% | 90% - 110% | | | | | | | | | | | | |
| S | | | | | 0.348 | 0.378 | 108% | 90% - 110% | | | | | | | | |
| Sr | 1191 | 1161 | 97% | 90% - 110% | 92.8 | 90.2 | 97% | 90% - 110% | | | | | | | | |
| Ta | 0.9 | 1 | 109% | 90% - 110% | | | | | | | | | | | | |
| Th | 1.4 | 1.3 | 95% | 90% - 110% | | | | | | | | | | | | |
| Ti | 0.172 | 0.155 | 90% | 90% - 110% | | | | | | | | | | | | |
| V | 8 | 6 | 81% | 90% - 110% | | | | | 77 | 77 | 100% | 90% - 110% | 8 | 6 | 79% | 90% - 110% |
| Zn | 93 | 86 | 93% | 90% - 110% | 208 | 202 | 97% | 90% - 110% | | | | | | | | |
| Parameter | CRM #5 (ref.Till-2) | | | | CRM #6 (ref.GTS-2A) | | | | CRM #7 (ref.SY-4) | | | | CRM #8 (ref.GTS-2A) | | | |
| | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits |
| Al | 8.17 | 8.26 | 101% | 90% - 110% | | | | | 10.95 | 10.33 | 94% | 90% - 110% | 6.96 | 7.05 | 101% | 90% - 110% |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

| | | | | | | | | | | | | | | | | |
|----|-------|-------|------|------------|------|------|------|------------|-------|-------|------|------------|-------|-------|------------|------------|
| As | 26 | 24.4 | 94% | 90% - 110% | | | | | | | | 124 | 128 | 103% | 90% - 110% | |
| Ba | 540 | 533 | 99% | 90% - 110% | | | | | 340 | 319 | 94% | 90% - 110% | 186 | 188 | 101% | 90% - 110% |
| Be | 4.0 | 4.2 | 106% | 90% - 110% | | | | | 2.6 | 2.9 | 111% | 90% - 110% | | | | |
| Ca | 0.907 | 0.929 | 102% | 90% - 110% | | | | | 5.72 | 5.39 | 94% | 90% - 110% | 4.01 | 4.14 | 103% | 90% - 110% |
| Ce | 98 | 103 | 105% | 90% - 110% | | | | | 122 | 118 | 96% | 90% - 110% | 24 | 24 | 98% | 90% - 110% |
| Co | | | | | 22.1 | 23.8 | 107% | 90% - 110% | | | | | | | | |
| Cr | 60.3 | 59.5 | 99% | 90% - 110% | | | | | | | | | | | | |
| Cs | 12 | 12 | 103% | 90% - 110% | | | | | 1.5 | 1.7 | 115% | 90% - 110% | | | | |
| Cu | 150 | 147 | 98% | 90% - 110% | | | | | | | | | 88.6 | 87.4 | 99% | 90% - 110% |
| Fe | 3.77 | 3.58 | 95% | 90% - 110% | | | | | 4.34 | 3.78 | 87% | 90% - 110% | 7.56 | 7.32 | 97% | 90% - 110% |
| Ga | | | | | | | | | 35 | 37 | 105% | 90% - 110% | | | | |
| K | | | | | | | | | 1.37 | 1.29 | 94% | 90% - 110% | 2.021 | 2.072 | 103% | 90% - 110% |
| La | 44 | 46 | 104% | 90% - 110% | | | | | 58 | 54 | 93% | 90% - 110% | | | | |
| Li | 47 | 46 | 97% | 90% - 110% | | | | | 37 | 36 | 98% | 90% - 110% | | | | |
| Mg | 1.10 | 1.07 | 98% | 90% - 110% | | | | | 0.325 | 0.286 | 88% | 90% - 110% | 2.412 | 2.483 | 103% | 90% - 110% |
| Mn | 780 | 729 | 93% | 90% - 110% | | | | | | | | | 1510 | 1455 | 96% | 90% - 110% |
| Mo | 14 | 15 | 107% | 90% - 110% | | | | | | | | | | | | |
| Na | 1.624 | 1.685 | 104% | 90% - 110% | | | | | 5.267 | 5.054 | 96% | 90% - 110% | 0.617 | 0.655 | 106% | 90% - 110% |
| Nb | 20 | 21 | 107% | 90% - 110% | | | | | | | | | | | | |
| Ni | 32 | 33 | 104% | 90% - 110% | | | | | 9 | 7 | 83% | 90% - 110% | 77.1 | 72.8 | 94% | 90% - 110% |
| P | | | | | | | | | | | | | 892 | 923 | 103% | 90% - 110% |
| Pb | 31 | 31 | 99% | 90% - 110% | | | | | 10 | 10 | 96% | 90% - 110% | | | | |
| Rb | 143 | 132 | 92% | 90% - 110% | | | | | 55 | 57.2 | 104% | 90% - 110% | | | | |
| S | | | | | | | | | | | | | 0.348 | 0.38 | 109% | 90% - 110% |
| Sc | 12 | 12 | 104% | 90% - 110% | | | | | | | | | | | | |
| Sr | 144 | 146 | 101% | 90% - 110% | | | | | 1191 | 1141 | 96% | 90% - 110% | 92.8 | 93.1 | 100% | 90% - 110% |
| Ta | 1.9 | 1.7 | 89% | 90% - 110% | | | | | 0.9 | 1 | 113% | 90% - 110% | | | | |
| Th | 18.4 | 17.6 | 95% | 90% - 110% | | | | | 1.4 | 1.2 | 85% | 90% - 110% | | | | |
| Ti | 0.53 | 0.43 | 81% | 90% - 110% | | | | | 0.172 | 0.152 | 88% | 90% - 110% | | | | |
| U | 5.7 | 4.5 | 79% | 90% - 110% | | | | | 0.8 | 0.7 | 82% | 90% - 110% | | | | |
| V | | | | | | | | | 8 | 8 | 99% | 90% - 110% | | | | |
| W | 5 | 5 | 91% | 90% - 110% | | | | | | | | | | | | |
| Y | 40 | 31 | 78% | 90% - 110% | | | | | | | | | | | | |
| Zn | 130 | 121 | 93% | 90% - 110% | | | | | 93 | 88 | 94% | 90% - 110% | 208 | 206 | 99% | 90% - 110% |

Method Summary

CLIENT NAME: CRUZ COBALT CORP.

AGAT WORK ORDER: 17T282580

PROJECT:

ATTENTION TO: Jason Gigliotti, Jim Nelson

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|----------------|---------------|----------------------|----------------------|
| Solid Analysis | | | |
| Ag | MIN-200-12020 | | ICP-MS |
| Al | MIN-200-12020 | | ICP/OES |
| As | MIN-200-12020 | | ICP-MS |
| Ba | MIN-200-12020 | | ICP-MS |
| Be | MIN-200-12020 | | ICP-MS |
| Bi | MIN-200-12020 | | ICP-MS |
| Ca | MIN-200-12020 | | ICP/OES |
| Cd | MIN-200-12020 | | ICP-MS |
| Ce | MIN-200-12020 | | ICP-MS |
| Co | MIN-200-12020 | | ICP-MS |
| Cr | MIN-200-12020 | | ICP/OES |
| Cs | MIN-200-12020 | | ICP-MS |
| Cu | MIN-200-12020 | | ICP-MS |
| Fe | MIN-200-12020 | | ICP/OES |
| Ga | MIN-200-12020 | | ICP-MS |
| Ge | MIN-200-12020 | | ICP-MS |
| Hf | MIN-200-12020 | | ICP-MS |
| In | MIN-200-12020 | | ICP-MS |
| K | MIN-200-12020 | | ICP/OES |
| La | MIN-200-12020 | | ICP-MS |
| Li | MIN-200-12020 | | ICP-MS |
| Mg | MIN-200-12020 | | ICP/OES |
| Mn | MIN-200-12020 | | ICP/OES |
| Mo | MIN-200-12020 | | ICP-MS |
| Na | MIN-200-12020 | | ICP/OES |
| Nb | MIN-200-12020 | | ICP-MS |
| Ni | MIN-200-12020 | | ICP-MS |
| P | MIN-200-12020 | | ICP/OES |
| Pb | MIN-200-12020 | | ICP-MS |
| Rb | MIN-200-12020 | | ICP-MS |
| Re | MIN-200-12020 | | ICP-MS |
| S | MIN-200-12020 | | ICP/OES |
| Sb | MIN-200-12020 | | ICP-MS |
| Sc | MIN-200-12020 | | ICP-MS |
| Se | MIN-200-12020 | | ICP-MS |
| Sn | MIN-200-12020 | | ICP-MS |
| Sr | MIN-200-12020 | | ICP-MS |
| Ta | MIN-200-12020 | | ICP-MS |
| Te | MIN-200-12020 | | ICP-MS |
| Th | MIN-200-12020 | | ICP-MS |
| Ti | MIN-200-12020 | | ICP/OES |
| Tl | MIN-200-12020 | | ICP-MS |
| U | MIN-200-12020 | | ICP-MS |
| V | MIN-200-12020 | | ICP/OES |
| W | MIN-200-12020 | | ICP-MS |
| Y | MIN-200-12020 | | ICP-MS |
| Zn | MIN-200-12020 | | ICP-MS |
| Zr | MIN-200-12020 | | ICP-MS |

CLIENT NAME: CRUZ COBALT CORP.
P.O BOX 10112 1470-701 W. GEORGIA ST
VANCOUVER, BC V7Y 1C6
604-646-6908

ATTENTION TO: Jason Gigliotti, Jim Nelson

PROJECT:

AGAT WORK ORDER: 17T282581

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Jan 02, 2018

PAGES (INCLUDING COVER): 19

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 17T282581

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | DATE REPORTED: Jan 02, 2018 | | | SAMPLE TYPE: Other | | | | | | | |
|----------------------------|-----------------------------|------|------|-----------------------------|------|------|--------------------|------|------|------|------|------|------|------|
| Analyte: | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs | Cu | Fe |
| Unit: | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % |
| RDL: | 0.01 | 0.01 | 0.2 | 1 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.05 | 0.5 | 0.01 | 0.5 | 0.01 |
| D5 (8893776) | 0.54 | 6.79 | 8.8 | 421 | 1.30 | 0.27 | 1.28 | 0.12 | 37.6 | 17.4 | 100 | 1.71 | 180 | 4.24 |
| D6 (8893777) | 0.32 | 6.95 | 4.9 | 554 | 1.43 | 0.15 | 1.41 | 0.07 | 43.3 | 12.1 | 67.7 | 1.65 | 27.3 | 2.30 |
| D7 (8893778) | 0.31 | 7.36 | 3.4 | 565 | 1.33 | 0.11 | 1.41 | 0.09 | 37.4 | 11.5 | 68.3 | 1.87 | 19.1 | 2.36 |
| D8 (8893779) | 0.35 | 7.15 | 4.9 | 531 | 1.38 | 0.15 | 1.57 | 0.11 | 38.2 | 13.7 | 82.3 | 2.04 | 32.4 | 3.08 |
| D9 (8893780) | 0.36 | 6.64 | 3.7 | 479 | 1.31 | 0.12 | 1.44 | 0.07 | 30.4 | 12.7 | 73.4 | 1.80 | 23.3 | 2.83 |
| D10 (8893781) | 0.35 | 7.49 | 4.4 | 548 | 1.24 | 0.12 | 1.62 | 0.10 | 32.8 | 11.5 | 70.6 | 1.64 | 19.6 | 2.87 |
| D11 (8893782) | 0.25 | 7.80 | 2.9 | 542 | 1.39 | 0.13 | 1.49 | 0.10 | 36.1 | 13.9 | 84.5 | 2.25 | 24.1 | 3.62 |
| D12 (8893783) | 0.44 | 7.57 | 3.4 | 517 | 1.42 | 0.12 | 1.39 | 0.09 | 37.0 | 15.6 | 87.6 | 1.97 | 19.6 | 3.30 |
| D13 (8893784) | 0.25 | 7.26 | 1.7 | 593 | 1.35 | 0.10 | 1.35 | 0.05 | 37.7 | 11.6 | 70.0 | 1.91 | 11.6 | 2.31 |
| D14 (8893785) | 0.33 | 8.11 | 2.6 | 602 | 1.32 | 0.10 | 1.46 | 0.07 | 27.7 | 12.3 | 87.6 | 2.05 | 19.0 | 3.18 |
| D15 (8893786) | 0.31 | 8.55 | 4.8 | 539 | 1.38 | 0.14 | 1.38 | 0.12 | 28.3 | 17.2 | 95.6 | 2.47 | 31.3 | 3.77 |
| D16 (8893787) | 0.31 | 8.03 | 6.1 | 493 | 1.33 | 0.15 | 1.25 | 0.13 | 25.2 | 15.5 | 90.4 | 2.41 | 43.6 | 4.42 |
| D17 (8893788) | 0.37 | 6.15 | 3.6 | 515 | 1.00 | 0.12 | 1.53 | 0.09 | 30.8 | 8.65 | 64.6 | 2.28 | 17.6 | 2.25 |
| D18 (8893789) | 0.49 | 7.81 | 5.6 | 391 | 1.18 | 0.16 | 1.23 | 0.13 | 25.7 | 18.2 | 77.7 | 2.23 | 64.7 | 4.47 |
| D19 (8893790) | 0.34 | 6.63 | 7.2 | 544 | 1.09 | 0.14 | 1.39 | 0.13 | 24.1 | 14.7 | 55.7 | 1.79 | 22.4 | 2.61 |
| D20 (8893791) | 0.26 | 7.33 | 5.5 | 477 | 1.25 | 0.14 | 1.39 | 0.06 | 22.5 | 23.9 | 66.5 | 1.66 | 27.9 | 3.01 |
| D21 (8893792) | 0.32 | 7.98 | 3.0 | 515 | 1.34 | 0.16 | 1.52 | 0.11 | 26.3 | 22.7 | 69.0 | 1.78 | 42.0 | 3.33 |
| D22 (8893793) | 0.20 | 7.56 | 6.3 | 478 | 1.41 | 0.18 | 1.44 | 0.10 | 27.5 | 16.5 | 71.1 | 1.84 | 44.2 | 3.22 |
| D23 (8893794) | 0.24 | 6.35 | 6.3 | 424 | 1.01 | 0.19 | 1.28 | 0.12 | 29.7 | 7.62 | 57.5 | 1.79 | 30.5 | 3.43 |
| D24 (8893795) | 0.31 | 7.34 | 3.3 | 512 | 1.44 | 0.11 | 1.45 | 0.08 | 29.8 | 17.1 | 76.6 | 1.99 | 15.6 | 3.06 |
| D25 (8893796) | 0.45 | 7.45 | 3.9 | 569 | 1.52 | 0.14 | 1.40 | 0.06 | 39.7 | 14.3 | 79.7 | 2.59 | 18.9 | 3.02 |
| D26 (8893797) | 0.36 | 8.54 | 8.9 | 521 | 1.75 | 0.24 | 1.42 | 0.07 | 49.0 | 27.8 | 128 | 2.78 | 75.8 | 5.95 |
| D27 (8893798) | 0.62 | 7.63 | 9.6 | 434 | 1.50 | 0.17 | 1.32 | 0.13 | 26.3 | 17.7 | 98.6 | 2.16 | 27.3 | 4.15 |
| D28 (8893799) | 0.41 | 7.63 | 7.4 | 532 | 1.41 | 0.14 | 1.49 | 0.13 | 28.6 | 23.0 | 70.8 | 2.12 | 21.5 | 3.19 |
| E1 (8893800) | 0.22 | 7.04 | 3.0 | 593 | 1.20 | 0.08 | 1.53 | 0.05 | 25.0 | 10.7 | 70.9 | 1.94 | 11.9 | 2.62 |
| E2 (8893801) | 0.26 | 6.68 | 2.2 | 551 | 1.24 | 0.09 | 1.30 | 0.10 | 33.8 | 11.3 | 71.4 | 1.99 | 11.4 | 2.46 |
| E3 (8893802) | 0.24 | 6.64 | 3.9 | 518 | 1.25 | 0.11 | 1.62 | 0.07 | 34.7 | 13.8 | 74.1 | 1.94 | 14.6 | 2.78 |
| E4 (8893803) | 0.24 | 6.47 | 4.6 | 509 | 1.30 | 0.09 | 1.89 | 0.07 | 38.5 | 13.5 | 104 | 1.53 | 11.0 | 2.85 |
| E5 (8893804) | 0.18 | 7.28 | 3.8 | 590 | 1.65 | 0.12 | 1.76 | 0.04 | 53.6 | 18.7 | 81.9 | 2.41 | 22.9 | 3.09 |
| E6 (8893805) | 0.23 | 6.68 | 11.6 | 541 | 1.31 | 0.11 | 1.72 | 0.09 | 31.8 | 17.4 | 81.2 | 2.29 | 17.1 | 2.96 |
| E7 (8893806) | 0.23 | 7.60 | 3.9 | 610 | 1.35 | 0.15 | 1.49 | 0.06 | 31.0 | 16.9 | 92.4 | 2.17 | 24.8 | 2.92 |
| E8 (8893807) | 0.27 | 6.68 | 3.6 | 608 | 1.14 | 0.11 | 1.42 | 0.06 | 29.1 | 12.3 | 67.5 | 2.37 | 7.9 | 2.37 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282581

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 02, 2018

SAMPLE TYPE: Other

| Sample ID (AGAT ID) | Analyte: Unit: RDL: | Ag ppm 0.01 | Al % 0.01 | As ppm 0.2 | Ba ppm 1 | Be ppm 0.05 | Bi ppm 0.01 | Ca % 0.01 | Cd ppm 0.02 | Ce ppm 0.01 | Co ppm 0.05 | Cr ppm 0.5 | Cs ppm 0.01 | Cu ppm 0.5 | Fe % 0.01 |
|---------------------|---------------------------|-------------------|-----------------|------------------|----------------|-------------------|-------------------|-----------------|-------------------|-------------------|-------------------|------------------|-------------------|------------------|-----------------|
| E9 (8893808) | | 0.29 | 6.60 | 1.2 | 494 | 1.32 | 0.10 | 1.42 | 0.06 | 23.8 | 11.3 | 66.3 | 1.77 | 6.5 | 3.04 |
| E10 (8893809) | | 0.56 | 7.05 | 6.1 | 504 | 1.37 | 0.14 | 1.41 | 0.10 | 17.2 | 14.3 | 85.3 | 1.86 | 11.7 | 4.11 |
| E11 (8893810) | | 0.32 | 7.48 | 3.0 | 538 | 1.37 | 0.12 | 1.57 | 0.07 | 36.1 | 15.5 | 104 | 1.48 | 19.9 | 4.51 |
| E12 (8893811) | | 0.25 | 8.41 | 4.2 | 573 | 1.40 | 0.13 | 1.63 | 0.10 | 20.7 | 19.6 | 88.2 | 1.98 | 15.2 | 4.34 |
| E13 (8893812) | | 0.30 | 8.02 | 4.5 | 564 | 1.22 | 0.12 | 1.69 | 0.06 | 27.1 | 18.5 | 89.3 | 1.85 | 14.8 | 4.65 |
| E14 (8893813) | | 0.29 | 8.45 | 4.7 | 580 | 1.36 | 0.15 | 1.65 | 0.10 | 27.7 | 14.9 | 111 | 1.87 | 24.5 | 4.80 |
| E15 (8893814) | | 0.40 | 8.34 | 8.9 | 576 | 1.40 | 0.20 | 1.28 | 0.11 | 27.0 | 19.9 | 94.5 | 2.37 | 57.3 | 5.06 |
| E16 (8893815) | | 0.33 | 7.74 | 3.6 | 559 | 1.32 | 0.10 | 1.61 | 0.07 | 35.2 | 12.4 | 73.6 | 1.67 | 14.5 | 2.83 |
| E17 (8893816) | | 0.44 | 7.09 | 7.6 | 558 | 1.19 | 0.17 | 1.43 | 0.10 | 27.3 | 10.9 | 81.5 | 2.26 | 12.1 | 3.27 |
| E18 (8893817) | | 0.31 | 7.13 | 3.8 | 514 | 1.10 | 0.10 | 1.35 | 0.07 | 25.3 | 9.98 | 72.4 | 1.74 | 10.2 | 2.81 |
| E19 (8893818) | | 0.34 | 8.41 | 2.9 | 596 | 1.32 | 0.11 | 1.61 | 0.08 | 35.8 | 12.6 | 85.3 | 2.41 | 14.7 | 3.55 |
| E20 (8893819) | | 0.33 | 8.08 | 3.0 | 579 | 1.51 | 0.10 | 1.53 | 0.10 | 37.8 | 14.3 | 88.2 | 1.78 | 27.9 | 3.33 |
| E21 (8893820) | | 0.27 | 7.04 | 2.3 | 492 | 1.30 | 0.09 | 1.71 | 0.07 | 25.2 | 13.3 | 88.3 | 1.48 | 8.5 | 3.55 |
| E22 (8893821) | | 0.27 | 7.77 | 6.0 | 514 | 1.22 | 0.13 | 1.58 | 0.09 | 26.1 | 14.9 | 72.3 | 1.90 | 36.4 | 3.43 |
| E23 (8893822) | | 0.19 | 7.30 | 5.1 | 548 | 1.29 | 0.11 | 1.61 | 0.03 | 53.1 | 10.6 | 77.4 | 1.42 | 44.1 | 2.71 |
| E24 (8893823) | | 0.27 | 5.67 | 4.1 | 388 | 0.91 | 0.14 | 1.38 | 0.11 | 18.5 | 8.46 | 98.4 | 1.41 | 16.0 | 2.60 |
| E25 (8893824) | | 0.28 | 5.92 | 8.6 | 478 | 1.01 | 0.14 | 1.36 | 0.06 | 18.4 | 7.27 | 50.4 | 1.46 | 13.9 | 2.04 |
| E26 (8893825) | | 0.21 | 7.21 | 4.2 | 442 | 1.11 | 0.14 | 1.42 | 0.11 | 25.2 | 14.1 | 60.6 | 1.66 | 70.1 | 3.78 |
| E27 (8893826) | | 0.21 | 7.07 | 6.8 | 457 | 1.25 | 0.16 | 1.42 | 0.06 | 22.1 | 14.8 | 63.7 | 1.80 | 56.6 | 3.71 |
| E28 (8893827) | | 0.19 | 5.87 | 3.5 | 486 | 1.17 | 0.10 | 1.34 | 0.04 | 18.9 | 9.52 | 42.7 | 1.24 | 27.7 | 1.88 |
| E29 (8893828) | | 0.27 | 7.28 | 5.4 | 526 | 1.08 | 0.10 | 1.42 | 0.05 | 21.9 | 10.1 | 57.9 | 1.37 | 16.6 | 2.60 |
| E30 (8893829) | | 0.27 | 7.86 | 9.9 | 532 | 1.36 | 0.17 | 1.82 | 0.07 | 47.4 | 15.4 | 73.7 | 1.38 | 94.7 | 3.43 |
| E31 (8893830) | | 0.20 | 7.92 | 7.5 | 451 | 1.32 | 0.18 | 1.53 | 0.06 | 25.7 | 17.9 | 69.1 | 1.57 | 33.3 | 3.39 |
| E32 (8893831) | | 0.28 | 5.90 | 2.1 | 508 | 0.91 | 0.13 | 1.31 | 0.06 | 22.0 | 5.27 | 45.3 | 1.15 | 6.8 | 2.22 |
| E33 (8893832) | | 0.19 | 6.80 | 2.5 | 514 | 1.20 | 0.08 | 1.71 | 0.07 | 16.5 | 9.11 | 57.1 | 1.11 | 4.5 | 2.51 |
| E34 (8893833) | | 0.17 | 7.00 | 1.6 | 546 | 1.46 | 0.07 | 1.65 | 0.07 | 18.8 | 9.34 | 56.0 | 1.19 | 5.4 | 2.13 |
| E35 (8893834) | | 0.20 | 7.09 | 0.8 | 527 | 1.27 | 0.08 | 1.59 | 0.06 | 26.0 | 11.1 | 66.8 | 1.45 | 5.8 | 2.45 |
| E36 (8893835) | | 0.44 | 7.37 | 5.9 | 483 | 1.33 | 0.14 | 1.35 | 0.09 | 25.1 | 16.5 | 75.7 | 2.14 | 17.0 | 3.41 |
| E37 (8893836) | | 0.29 | 6.82 | 4.5 | 498 | 1.21 | 0.11 | 1.48 | 0.06 | 38.3 | 11.8 | 74.7 | 1.76 | 12.2 | 2.96 |
| E38 (8893837) | | 0.20 | 7.12 | 4.4 | 557 | 1.29 | 0.09 | 1.43 | 0.05 | 40.5 | 10.2 | 65.5 | 1.42 | 13.9 | 2.31 |
| E39 (8893838) | | 0.18 | 6.81 | 1.9 | 500 | 1.28 | 0.08 | 1.37 | 0.05 | 22.6 | 10.6 | 58.8 | 1.40 | 6.7 | 2.15 |
| E40 (8893839) | | 0.16 | 8.23 | 1.7 | 690 | 1.39 | 0.07 | 1.80 | 0.03 | 21.3 | 9.63 | 53.1 | 1.20 | 5.9 | 2.25 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282581

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | DATE REPORTED: Jan 02, 2018 | | | | SAMPLE TYPE: Other | | | | | |
|----------------------------|-----------------------------|------|-----|-----|-----------------------------|------|------|------|--------------------|------|------|------|------|------|
| Analyte: | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs | Cu | Fe |
| Unit: | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % |
| RDL: | 0.01 | 0.01 | 0.2 | 1 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.05 | 0.5 | 0.01 | 0.5 | 0.01 |
| E41 (8893840) | 0.24 | 7.81 | 3.6 | 531 | 1.20 | 0.09 | 1.67 | 0.05 | 22.4 | 13.3 | 112 | 1.20 | 6.3 | 3.17 |
| E42 (8893841) | 0.30 | 6.90 | 7.2 | 444 | 1.48 | 0.12 | 1.90 | 0.09 | 25.4 | 19.8 | 135 | 1.87 | 17.4 | 4.32 |
| E43 (8893842) | 0.21 | 7.40 | 3.4 | 515 | 1.34 | 0.10 | 1.56 | 0.10 | 17.0 | 10.7 | 64.7 | 1.43 | 5.3 | 3.29 |
| E44 (8893843) | 0.25 | 6.71 | 4.7 | 477 | 1.13 | 0.12 | 1.30 | 0.11 | 22.3 | 7.86 | 65.8 | 1.81 | 10.2 | 3.43 |
| E45 (8893844) | 0.36 | 6.59 | 4.6 | 484 | 1.50 | 0.12 | 1.37 | 0.10 | 29.1 | 13.4 | 71.6 | 2.21 | 11.2 | 2.93 |
| F1 (8893845) | 0.18 | 6.53 | 3.5 | 497 | 1.42 | 0.07 | 1.25 | 0.07 | 21.7 | 11.0 | 50.4 | 1.47 | 4.9 | 2.05 |
| F2 (8893846) | 0.15 | 6.19 | 2.0 | 520 | 1.37 | 0.07 | 1.34 | 0.06 | 14.4 | 8.44 | 42.7 | 1.28 | 4.2 | 1.85 |
| F3 (8893847) | 0.19 | 6.51 | 2.9 | 446 | 1.40 | 0.08 | 1.46 | 0.06 | 31.7 | 12.1 | 72.1 | 1.40 | 6.8 | 2.82 |

Certified By:

Certificate of Analysis

AGAT WORK ORDER: 17T282581

PROJECT:

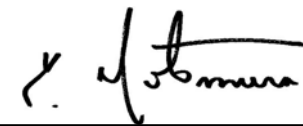
CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 02, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|-------|-----|-------|------|-----------------------------|------|------|-----|------|--------------------|-----|------|------|--|
| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P | |
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm | |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 | |
| D5 (8893776) | 17.3 | 0.38 | 3.2 | 0.034 | 1.41 | 18.0 | 23.1 | 0.72 | 451 | 0.76 | 1.61 | 6.9 | 61.5 | 751 | |
| D6 (8893777) | 19.6 | 0.08 | 3.2 | 0.024 | 1.94 | 17.0 | 15.3 | 0.82 | 322 | 0.35 | 2.06 | 6.7 | 36.6 | 284 | |
| D7 (8893778) | 18.7 | 0.34 | 3.1 | 0.026 | 2.08 | 14.5 | 19.5 | 0.77 | 335 | 0.44 | 2.00 | 6.7 | 35.8 | 343 | |
| D8 (8893779) | 19.0 | 0.33 | 3.6 | 0.026 | 1.79 | 17.8 | 20.2 | 0.78 | 418 | 0.56 | 1.96 | 6.9 | 38.5 | 525 | |
| D9 (8893780) | 16.8 | 0.48 | 3.1 | 0.026 | 1.66 | 13.6 | 18.7 | 0.72 | 378 | 0.56 | 1.80 | 6.4 | 35.5 | 496 | |
| D10 (8893781) | 16.7 | 0.76 | 3.3 | 0.026 | 1.90 | 14.3 | 18.5 | 0.78 | 405 | 0.50 | 2.12 | 6.4 | 34.2 | 397 | |
| D11 (8893782) | 19.8 | 0.81 | 3.7 | 0.030 | 1.81 | 16.5 | 28.5 | 0.84 | 407 | 0.75 | 1.91 | 7.0 | 42.4 | 639 | |
| D12 (8893783) | 18.6 | 0.77 | 3.0 | 0.029 | 1.76 | 17.0 | 24.9 | 0.86 | 373 | 0.71 | 1.81 | 6.9 | 46.2 | 686 | |
| D13 (8893784) | 19.3 | 0.57 | 3.0 | 0.023 | 2.11 | 14.9 | 18.9 | 0.80 | 304 | 0.36 | 2.02 | 6.8 | 35.6 | 207 | |
| D14 (8893785) | 17.4 | 0.72 | 2.7 | 0.022 | 2.07 | 13.9 | 23.7 | 0.93 | 376 | 0.40 | 1.97 | 6.2 | 44.3 | 577 | |
| D15 (8893786) | 21.3 | 0.45 | 2.8 | 0.031 | 1.94 | 13.9 | 29.8 | 1.03 | 416 | 0.71 | 1.84 | 6.9 | 51.1 | 1000 | |
| D16 (8893787) | 20.0 | 0.74 | 2.3 | 0.028 | 1.71 | 12.3 | 32.7 | 0.82 | 403 | 0.71 | 1.57 | 6.3 | 45.4 | 1050 | |
| D17 (8893788) | 18.3 | 0.22 | 3.3 | 0.021 | 1.95 | 14.7 | 19.2 | 0.73 | 362 | 0.47 | 1.82 | 6.2 | 23.5 | 230 | |
| D18 (8893789) | 19.4 | 0.56 | 2.7 | 0.033 | 1.42 | 12.3 | 78.1 | 1.13 | 316 | 1.04 | 1.38 | 5.5 | 50.5 | 882 | |
| D19 (8893790) | 19.1 | 0.29 | 3.8 | 0.024 | 1.84 | 11.4 | 23.2 | 0.64 | 323 | 0.63 | 1.87 | 6.8 | 33.6 | 269 | |
| D20 (8893791) | 17.7 | 0.55 | 2.5 | 0.026 | 1.57 | 10.6 | 25.7 | 0.76 | 326 | 0.54 | 1.91 | 5.5 | 42.9 | 274 | |
| D21 (8893792) | 18.6 | <0.05 | 3.0 | 0.029 | 1.70 | 11.5 | 26.8 | 0.79 | 345 | 0.61 | 2.04 | 5.7 | 41.6 | 347 | |
| D22 (8893793) | 18.9 | <0.05 | 2.9 | 0.025 | 1.58 | 11.7 | 21.8 | 0.77 | 360 | 0.57 | 2.06 | 4.9 | 35.3 | 317 | |
| D23 (8893794) | 20.0 | 0.24 | 3.2 | 0.028 | 1.40 | 14.0 | 18.4 | 0.55 | 298 | 0.91 | 1.61 | 6.0 | 18.4 | 989 | |
| D24 (8893795) | 18.3 | 0.08 | 3.1 | 0.025 | 1.76 | 13.6 | 22.2 | 0.76 | 358 | 0.52 | 1.95 | 6.0 | 41.9 | 465 | |
| D25 (8893796) | 21.7 | <0.05 | 3.0 | 0.025 | 1.87 | 19.2 | 28.0 | 0.83 | 386 | 0.51 | 1.83 | 7.5 | 46.3 | 505 | |
| D26 (8893797) | 20.3 | 1.31 | 3.3 | 0.035 | 1.79 | 20.4 | 36.8 | 1.18 | 622 | 1.28 | 1.62 | 8.6 | 68.1 | 1440 | |
| D27 (8893798) | 17.9 | 0.64 | 2.5 | 0.033 | 1.51 | 12.1 | 28.8 | 0.81 | 488 | 0.82 | 1.64 | 5.7 | 45.6 | 1170 | |
| D28 (8893799) | 19.8 | 0.44 | 2.6 | 0.028 | 1.77 | 12.0 | 26.9 | 0.76 | 355 | 0.79 | 1.95 | 6.6 | 46.9 | 619 | |
| E1 (8893800) | 18.6 | 0.37 | 2.4 | 0.020 | 2.19 | 12.3 | 21.3 | 1.01 | 407 | 0.31 | 2.17 | 5.9 | 33.4 | 221 | |
| E2 (8893801) | 19.9 | 0.33 | 2.4 | 0.023 | 2.04 | 15.3 | 19.7 | 0.93 | 333 | 0.31 | 2.00 | 6.0 | 33.7 | 195 | |
| E3 (8893802) | 19.4 | 0.38 | 2.2 | 0.024 | 1.87 | 16.6 | 25.1 | 1.12 | 521 | 0.38 | 2.08 | 6.6 | 35.3 | 305 | |
| E4 (8893803) | 19.0 | 0.27 | 2.6 | 0.023 | 1.79 | 18.5 | 19.0 | 1.10 | 555 | 0.46 | 2.24 | 6.2 | 36.2 | 467 | |
| E5 (8893804) | 22.6 | <0.05 | 2.6 | 0.027 | 2.15 | 23.0 | 24.1 | 1.28 | 588 | 0.41 | 2.21 | 7.0 | 41.8 | 523 | |
| E6 (8893805) | 21.0 | <0.05 | 2.7 | 0.025 | 1.97 | 14.0 | 28.1 | 1.13 | 475 | 0.44 | 2.10 | 6.9 | 38.8 | 212 | |
| E7 (8893806) | 19.4 | 0.40 | 2.4 | 0.023 | 2.20 | 14.1 | 23.5 | 1.22 | 459 | 0.29 | 2.11 | 7.0 | 50.5 | 275 | |
| E8 (8893807) | 20.7 | <0.05 | 2.9 | 0.023 | 2.25 | 14.3 | 21.5 | 0.94 | 359 | 0.33 | 1.94 | 7.1 | 33.2 | 189 | |

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 17T282581

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 02, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|-------|-----|-------|------|-----------------------------|------|------|-----|------|--------------------|------|------|------|--|
| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P | |
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm | |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 | |
| E9 (8893808) | 22.0 | <0.05 | 2.6 | 0.025 | 1.69 | 11.5 | 19.8 | 0.69 | 312 | 0.60 | 1.96 | 6.0 | 27.6 | 257 | |
| E10 (8893809) | 20.6 | 0.58 | 1.9 | 0.028 | 1.59 | 8.0 | 30.4 | 0.82 | 356 | 0.75 | 1.91 | 5.7 | 39.0 | 532 | |
| E11 (8893810) | 16.4 | 0.62 | 3.8 | 0.023 | 1.72 | 14.8 | 23.2 | 0.91 | 574 | 0.39 | 1.91 | 6.1 | 42.4 | 572 | |
| E12 (8893811) | 18.1 | 0.43 | 2.4 | 0.024 | 2.11 | 9.6 | 32.5 | 1.20 | 505 | 0.39 | 2.01 | 5.2 | 50.2 | 773 | |
| E13 (8893812) | 18.6 | 0.50 | 2.3 | 0.028 | 2.02 | 13.3 | 32.0 | 1.10 | 536 | 0.44 | 1.99 | 5.5 | 51.0 | 726 | |
| E14 (8893813) | 17.3 | 0.63 | 2.2 | 0.028 | 1.95 | 12.3 | 36.7 | 1.17 | 621 | 0.37 | 2.04 | 5.1 | 55.9 | 2570 | |
| E15 (8893814) | 17.7 | 0.48 | 2.2 | 0.030 | 1.93 | 11.9 | 37.8 | 1.14 | 541 | 0.66 | 1.48 | 6.8 | 59.4 | 3140 | |
| E16 (8893815) | 17.5 | 0.20 | 3.4 | 0.021 | 1.97 | 15.9 | 19.6 | 0.86 | 404 | 0.42 | 2.13 | 6.1 | 36.4 | 590 | |
| E17 (8893816) | 19.4 | <0.05 | 3.2 | 0.028 | 1.90 | 14.1 | 26.8 | 0.72 | 560 | 0.50 | 1.82 | 7.1 | 33.5 | 797 | |
| E18 (8893817) | 15.8 | 0.14 | 3.0 | 0.020 | 1.77 | 12.4 | 24.8 | 0.77 | 353 | 0.42 | 1.73 | 5.8 | 39.2 | 600 | |
| E19 (8893818) | 16.9 | 0.17 | 3.3 | 0.031 | 2.13 | 16.5 | 25.6 | 0.98 | 453 | 0.53 | 2.11 | 10.5 | 42.6 | 910 | |
| E20 (8893819) | 17.4 | 0.27 | 2.9 | 0.025 | 1.96 | 15.4 | 20.7 | 0.97 | 415 | 0.39 | 2.05 | 6.1 | 44.4 | 730 | |
| E21 (8893820) | 18.6 | <0.05 | 3.9 | 0.023 | 1.60 | 11.4 | 17.1 | 0.82 | 543 | 0.43 | 2.04 | 6.6 | 34.0 | 622 | |
| E22 (8893821) | 17.8 | <0.05 | 2.7 | 0.024 | 1.92 | 11.2 | 28.2 | 0.98 | 417 | 0.45 | 2.00 | 5.4 | 39.3 | 684 | |
| E23 (8893822) | 16.6 | <0.05 | 2.7 | 0.022 | 2.03 | 14.2 | 22.5 | 0.92 | 433 | 0.32 | 2.21 | 5.4 | 38.6 | 207 | |
| E24 (8893823) | 17.7 | <0.05 | 2.1 | 0.024 | 1.30 | 8.7 | 17.7 | 0.75 | 495 | 0.44 | 1.70 | 5.2 | 31.0 | 1010 | |
| E25 (8893824) | 19.5 | <0.05 | 2.6 | 0.022 | 1.67 | 9.0 | 12.3 | 0.59 | 283 | 0.53 | 2.05 | 5.4 | 21.0 | 177 | |
| E26 (8893825) | 17.8 | <0.05 | 2.8 | 0.031 | 1.58 | 11.7 | 26.9 | 0.79 | 359 | 0.58 | 1.80 | 5.2 | 32.2 | 448 | |
| E27 (8893826) | 19.8 | <0.05 | 2.6 | 0.029 | 1.55 | 10.9 | 32.3 | 0.70 | 315 | 0.80 | 1.95 | 5.3 | 36.4 | 280 | |
| E28 (8893827) | 18.2 | <0.05 | 2.2 | 0.017 | 1.58 | 8.0 | 16.1 | 0.54 | 252 | 0.43 | 2.16 | 3.9 | 24.7 | 176 | |
| E29 (8893828) | 18.5 | <0.05 | 2.6 | 0.022 | 1.73 | 11.0 | 19.3 | 0.58 | 289 | 0.52 | 2.14 | 4.9 | 26.5 | 269 | |
| E30 (8893829) | 16.6 | <0.05 | 2.7 | 0.023 | 1.80 | 14.4 | 25.0 | 0.90 | 463 | 0.45 | 2.54 | 4.0 | 41.1 | 397 | |
| E31 (8893830) | 18.1 | <0.05 | 2.6 | 0.030 | 1.56 | 11.4 | 22.8 | 0.86 | 396 | 0.60 | 2.09 | 4.8 | 35.1 | 362 | |
| E32 (8893831) | 19.7 | <0.05 | 3.7 | 0.019 | 1.59 | 10.7 | 11.1 | 0.45 | 294 | 0.55 | 1.95 | 7.2 | 14.5 | 216 | |
| E33 (8893832) | 17.0 | <0.05 | 1.7 | 0.018 | 1.72 | 6.9 | 14.3 | 0.67 | 461 | 0.29 | 2.49 | 3.4 | 22.3 | 605 | |
| E34 (8893833) | 17.5 | <0.05 | 1.4 | 0.018 | 1.80 | 8.6 | 12.5 | 0.71 | 346 | 0.28 | 2.59 | 4.7 | 25.3 | 386 | |
| E35 (8893834) | 18.4 | <0.05 | 2.6 | 0.020 | 1.76 | 11.0 | 15.0 | 0.75 | 370 | 0.33 | 2.31 | 4.6 | 28.7 | 414 | |
| E36 (8893835) | 18.8 | <0.05 | 2.5 | 0.028 | 1.68 | 11.1 | 25.5 | 0.81 | 400 | 0.63 | 1.76 | 5.8 | 45.8 | 764 | |
| E37 (8893836) | 17.5 | <0.05 | 3.1 | 0.021 | 1.72 | 17.6 | 17.4 | 0.71 | 372 | 0.45 | 1.98 | 5.5 | 34.0 | 348 | |
| E38 (8893837) | 16.7 | <0.05 | 2.8 | 0.020 | 2.06 | 12.0 | 14.6 | 0.78 | 321 | 0.24 | 2.32 | 4.6 | 29.4 | 265 | |
| E39 (8893838) | 16.9 | <0.05 | 2.4 | 0.018 | 1.67 | 9.6 | 15.4 | 0.64 | 296 | 0.40 | 2.05 | 4.3 | 33.1 | 332 | |
| E40 (8893839) | 17.7 | <0.05 | 2.4 | 0.017 | 2.21 | 7.7 | 13.8 | 0.78 | 335 | 0.26 | 2.99 | 3.9 | 25.5 | 177 | |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282581

PROJECT:

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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 02, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|-------|-----|-------|------|-----------------------------|------|------|-----|------|--------------------|-----|------|------|--|
| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P | |
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm | |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 | |
| E41 (8893840) | 15.3 | 0.32 | 2.7 | 0.021 | 1.76 | 10.7 | 19.0 | 0.74 | 401 | 0.66 | 2.35 | 4.7 | 46.9 | 459 | |
| E42 (8893841) | 17.4 | 0.13 | 2.4 | 0.033 | 1.34 | 12.7 | 30.2 | 1.66 | 550 | 0.68 | 1.77 | 5.2 | 49.0 | 747 | |
| E43 (8893842) | 18.5 | <0.05 | 1.9 | 0.021 | 1.73 | 8.2 | 17.8 | 0.66 | 405 | 0.43 | 2.28 | 4.4 | 24.0 | 1410 | |
| E44 (8893843) | 18.5 | 0.05 | 2.4 | 0.025 | 1.57 | 10.7 | 21.8 | 0.56 | 342 | 0.67 | 1.73 | 5.1 | 20.9 | 1120 | |
| E45 (8893844) | 21.1 | <0.05 | 3.3 | 0.029 | 1.61 | 13.8 | 20.2 | 0.68 | 370 | 0.70 | 1.84 | 6.8 | 36.3 | 843 | |
| F1 (8893845) | 17.9 | <0.05 | 2.1 | 0.024 | 1.61 | 9.6 | 16.2 | 0.58 | 247 | 0.32 | 1.98 | 4.1 | 26.3 | 246 | |
| F2 (8893846) | 18.3 | <0.05 | 1.5 | 0.016 | 1.68 | 6.1 | 11.2 | 0.51 | 241 | 0.26 | 2.21 | 3.5 | 20.3 | 274 | |
| F3 (8893847) | 18.5 | <0.05 | 2.5 | 0.021 | 1.49 | 15.1 | 17.1 | 0.67 | 358 | 0.30 | 2.06 | 4.8 | 27.2 | 512 | |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282581

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 02, 2018

SAMPLE TYPE: Other

| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl |
|---------------|------|------|--------|------|------|------|-----|-----|-----|------|------|-----|------|------|
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm |
| RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | 0.01 |
| D5 (8893776) | 14.2 | 53.0 | <0.002 | 0.06 | 0.25 | 11.0 | 1.7 | 1.6 | 261 | 0.50 | 0.24 | 6.3 | 0.40 | 0.21 |
| D6 (8893777) | 12.8 | 72.0 | <0.002 | 0.03 | 0.12 | 11.2 | 1.0 | 1.1 | 310 | 0.51 | 0.08 | 5.4 | 0.29 | 0.31 |
| D7 (8893778) | 12.3 | 71.2 | <0.002 | 0.03 | 0.13 | 10.7 | 1.2 | 1.0 | 306 | 0.52 | 0.05 | 4.1 | 0.32 | 0.31 |
| D8 (8893779) | 13.8 | 65.4 | <0.002 | 0.04 | 0.15 | 11.1 | 1.2 | 1.1 | 301 | 0.54 | 0.09 | 5.4 | 0.39 | 0.26 |
| D9 (8893780) | 12.5 | 60.3 | <0.002 | 0.03 | 0.13 | 10.6 | 1.1 | 1.5 | 279 | 0.48 | 0.05 | 4.2 | 0.35 | 0.24 |
| D10 (8893781) | 11.8 | 59.0 | <0.002 | 0.04 | 0.17 | 10.3 | 0.9 | 1.0 | 320 | 0.50 | 0.04 | 4.4 | 0.37 | 0.25 |
| D11 (8893782) | 14.0 | 66.1 | <0.002 | 0.07 | 0.14 | 11.6 | 1.1 | 1.2 | 303 | 0.53 | 0.06 | 5.5 | 0.39 | 0.27 |
| D12 (8893783) | 14.7 | 62.2 | <0.002 | 0.05 | 0.13 | 11.4 | 1.3 | 1.1 | 280 | 0.50 | 0.03 | 4.7 | 0.34 | 0.27 |
| D13 (8893784) | 12.3 | 77.3 | <0.002 | 0.03 | 0.12 | 11.1 | 0.8 | 1.2 | 296 | 0.50 | 0.04 | 3.9 | 0.32 | 0.31 |
| D14 (8893785) | 12.1 | 69.7 | <0.002 | 0.04 | 0.14 | 10.7 | 1.0 | 1.0 | 297 | 0.45 | 0.04 | 3.6 | 0.35 | 0.28 |
| D15 (8893786) | 14.1 | 70.6 | <0.002 | 0.06 | 0.21 | 12.1 | 1.2 | 1.2 | 283 | 0.53 | 0.06 | 3.9 | 0.35 | 0.29 |
| D16 (8893787) | 30.3 | 66.3 | <0.002 | 0.07 | 0.21 | 11.2 | 1.6 | 1.2 | 245 | 0.47 | 0.07 | 3.7 | 0.36 | 0.28 |
| D17 (8893788) | 10.7 | 77.1 | <0.002 | 0.03 | 0.17 | 11.3 | 1.2 | 1.2 | 279 | 0.47 | 0.05 | 5.2 | 0.39 | 0.28 |
| D18 (8893789) | 11.0 | 53.1 | <0.002 | 0.05 | 0.15 | 13.8 | 1.0 | 1.1 | 218 | 0.41 | 0.04 | 4.1 | 0.32 | 0.21 |
| D19 (8893790) | 15.6 | 68.5 | <0.002 | 0.03 | 0.33 | 10.2 | 1.1 | 1.2 | 291 | 0.62 | 0.08 | 4.3 | 0.36 | 0.28 |
| D20 (8893791) | 12.4 | 58.9 | <0.002 | 0.04 | 0.21 | 10.6 | 1.2 | 1.2 | 285 | 0.51 | 0.05 | 3.9 | 0.30 | 0.23 |
| D21 (8893792) | 14.6 | 60.6 | <0.002 | 0.06 | 0.16 | 13.1 | 1.1 | 1.0 | 307 | 0.52 | 0.04 | 4.2 | 0.34 | 0.25 |
| D22 (8893793) | 13.9 | 58.9 | <0.002 | 0.07 | 0.17 | 11.8 | 0.8 | 1.0 | 297 | 0.46 | 0.02 | 5.0 | 0.31 | 0.24 |
| D23 (8893794) | 15.1 | 49.0 | <0.002 | 0.05 | 0.25 | 11.6 | 1.4 | 1.4 | 243 | 0.48 | 0.05 | 4.9 | 0.35 | 0.21 |
| D24 (8893795) | 13.9 | 61.8 | <0.002 | 0.04 | 0.14 | 10.7 | 1.2 | 1.1 | 307 | 0.49 | 0.04 | 4.1 | 0.32 | 0.25 |
| D25 (8893796) | 15.9 | 76.5 | <0.002 | 0.03 | 0.18 | 11.3 | 1.0 | 1.4 | 279 | 0.63 | 0.06 | 7.4 | 0.37 | 0.30 |
| D26 (8893797) | 19.2 | 66.9 | <0.002 | 0.05 | 0.32 | 14.5 | 1.3 | 1.4 | 257 | 0.65 | 0.12 | 9.0 | 0.64 | 0.26 |
| D27 (8893798) | 17.0 | 57.4 | <0.002 | 0.06 | 0.24 | 11.0 | 1.2 | 1.3 | 263 | 0.45 | 0.04 | 4.2 | 0.36 | 0.22 |
| D28 (8893799) | 16.0 | 62.8 | <0.002 | 0.04 | 0.27 | 10.4 | 1.3 | 1.9 | 305 | 0.49 | 0.05 | 3.4 | 0.35 | 0.25 |
| E1 (8893800) | 10.9 | 81.0 | <0.002 | 0.03 | 0.10 | 10.4 | 1.0 | 1.0 | 329 | 0.44 | 0.04 | 3.5 | 0.34 | 0.30 |
| E2 (8893801) | 12.1 | 81.2 | <0.002 | 0.03 | 0.11 | 10.7 | 0.6 | 1.1 | 285 | 0.47 | 0.02 | 9.2 | 0.31 | 0.30 |
| E3 (8893802) | 11.3 | 70.9 | <0.002 | 0.03 | 0.12 | 12.8 | 0.7 | 1.0 | 320 | 0.51 | 0.02 | 4.6 | 0.40 | 0.28 |
| E4 (8893803) | 15.3 | 70.1 | <0.002 | 0.04 | 0.19 | 13.4 | 1.1 | 1.2 | 350 | 0.47 | 0.06 | 5.3 | 0.42 | 0.26 |
| E5 (8893804) | 13.6 | 87.7 | <0.002 | 0.03 | 0.17 | 14.7 | 0.9 | 1.2 | 320 | 0.54 | 0.04 | 7.6 | 0.36 | 0.37 |
| E6 (8893805) | 13.6 | 81.3 | <0.002 | 0.03 | 0.19 | 12.9 | 0.7 | 1.1 | 304 | 0.51 | 0.02 | 3.7 | 0.41 | 0.32 |
| E7 (8893806) | 12.3 | 80.5 | <0.002 | 0.03 | 0.12 | 12.4 | 0.9 | 1.1 | 286 | 0.53 | 0.11 | 4.5 | 0.33 | 0.33 |
| E8 (8893807) | 12.7 | 92.9 | <0.002 | 0.03 | 0.14 | 11.1 | 0.7 | 1.1 | 281 | 0.55 | 0.03 | 3.8 | 0.35 | 0.38 |

Certified By:

Certificate of Analysis

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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

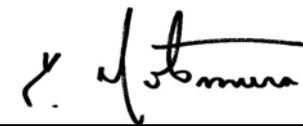
DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 02, 2018

SAMPLE TYPE: Other

| Sample ID (AGAT ID) | Analyte: Unit: RDL: | Pb ppm 0.1 | Rb ppm 0.1 | Re ppm 0.002 | S % 0.01 | Sb ppm 0.05 | Sc ppm 0.1 | Se ppm 0.5 | Sn ppm 0.2 | Sr ppm 0.2 | Ta ppm 0.05 | Te ppm 0.01 | Th ppm 0.1 | Ti % 0.01 | Tl ppm 0.01 |
|---------------------|---------------------------|------------------|------------------|--------------------|----------------|-------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|------------------|-----------------|-------------------|
| E9 (8893808) | | 11.7 | 67.4 | <0.002 | 0.04 | 0.11 | 10.8 | 0.9 | 1.1 | 296 | 0.47 | 0.04 | 3.6 | 0.33 | 0.28 |
| E10 (8893809) | | 10.5 | 65.1 | <0.002 | 0.05 | 0.17 | 10.7 | 1.2 | 1.0 | 292 | 0.42 | 0.05 | 2.7 | 0.38 | 0.24 |
| E11 (8893810) | | 10.1 | 56.0 | <0.002 | 0.04 | 0.23 | 11.3 | 1.1 | 1.0 | 302 | 0.59 | 0.09 | 8.0 | 0.43 | 0.25 |
| E12 (8893811) | | 10.6 | 67.9 | <0.002 | 0.05 | 0.25 | 11.9 | 1.1 | 1.0 | 313 | 0.46 | 0.07 | 3.1 | 0.40 | 0.25 |
| E13 (8893812) | | 9.8 | 62.6 | <0.002 | 0.04 | 0.21 | 11.3 | 1.1 | 1.0 | 314 | 0.46 | 0.07 | 5.4 | 0.49 | 0.23 |
| E14 (8893813) | | 10.2 | 61.5 | <0.002 | 0.05 | 0.26 | 10.5 | 1.0 | 0.9 | 336 | 0.42 | 0.07 | 4.7 | 0.38 | 0.24 |
| E15 (8893814) | | 11.5 | 55.2 | <0.002 | 0.07 | 0.22 | 11.1 | 1.5 | 0.9 | 242 | 0.48 | 0.11 | 4.0 | 0.44 | 0.22 |
| E16 (8893815) | | 10.9 | 63.4 | <0.002 | 0.04 | 0.12 | 10.4 | 1.1 | 0.9 | 323 | 0.49 | 0.04 | 5.2 | 0.36 | 0.26 |
| E17 (8893816) | | 11.9 | 68.8 | <0.002 | 0.04 | 0.24 | 10.1 | 1.3 | 1.5 | 277 | 0.54 | 0.04 | 4.3 | 0.42 | 0.29 |
| E18 (8893817) | | 9.2 | 56.2 | <0.002 | 0.04 | 0.12 | 8.6 | 0.9 | 1.0 | 263 | 0.46 | 0.03 | 3.6 | 0.34 | 0.25 |
| E19 (8893818) | | 12.0 | 77.0 | <0.002 | 0.05 | 0.19 | 9.4 | 0.7 | 1.9 | 372 | 0.71 | 0.03 | 6.8 | 0.39 | 0.26 |
| E20 (8893819) | | 12.4 | 63.1 | <0.002 | 0.04 | 0.10 | 11.4 | 1.3 | 1.0 | 303 | 0.44 | 0.04 | 6.2 | 0.36 | 0.26 |
| E21 (8893820) | | 10.5 | 58.1 | <0.002 | 0.04 | 0.11 | 11.2 | 1.3 | 1.0 | 331 | 0.63 | 0.05 | 4.2 | 0.43 | 0.25 |
| E22 (8893821) | | 10.2 | 61.1 | <0.002 | 0.04 | 0.13 | 11.4 | 1.5 | 0.9 | 299 | 0.49 | 0.03 | 3.6 | 0.36 | 0.25 |
| E23 (8893822) | | 10.6 | 57.2 | <0.002 | 0.03 | 0.10 | 10.8 | 0.6 | 0.9 | 335 | 0.46 | 0.02 | 3.9 | 0.34 | 0.25 |
| E24 (8893823) | | 13.4 | 42.8 | <0.002 | 0.04 | 0.13 | 9.4 | 0.8 | 0.9 | 227 | 0.42 | 0.03 | 2.5 | 0.34 | 0.19 |
| E25 (8893824) | | 13.6 | 62.9 | <0.002 | 0.03 | 0.26 | 9.1 | 0.8 | 0.8 | 311 | 0.47 | 0.07 | 2.5 | 0.28 | 0.27 |
| E26 (8893825) | | 9.8 | 47.5 | <0.002 | 0.04 | 0.20 | 10.0 | 1.3 | 1.7 | 261 | 0.44 | 0.06 | 4.0 | 0.36 | 0.21 |
| E27 (8893826) | | 11.3 | 52.4 | <0.002 | 0.04 | 0.16 | 9.8 | 0.9 | 0.9 | 285 | 0.48 | 0.06 | 3.3 | 0.35 | 0.23 |
| E28 (8893827) | | 10.4 | 58.8 | <0.002 | 0.02 | 0.09 | 7.4 | 0.6 | 0.7 | 320 | 0.32 | 0.04 | 2.2 | 0.21 | 0.25 |
| E29 (8893828) | | 11.0 | 54.0 | <0.002 | 0.04 | 0.37 | 7.9 | 1.0 | 0.8 | 334 | 0.42 | 0.04 | 3.8 | 0.31 | 0.24 |
| E30 (8893829) | | 12.7 | 54.4 | <0.002 | 0.04 | 0.15 | 11.6 | 1.0 | 0.8 | 355 | 0.35 | 0.02 | 4.2 | 0.34 | 0.23 |
| E31 (8893830) | | 12.9 | 51.1 | <0.002 | 0.05 | 0.14 | 11.3 | 1.3 | 0.8 | 298 | 0.44 | 0.01 | 8.5 | 0.33 | 0.24 |
| E32 (8893831) | | 10.8 | 51.7 | <0.002 | 0.03 | 0.32 | 8.2 | 1.0 | 1.1 | 286 | 0.67 | 0.09 | 4.3 | 0.38 | 0.26 |
| E33 (8893832) | | 9.2 | 57.1 | <0.002 | 0.03 | 0.19 | 8.3 | 0.9 | 0.8 | 379 | 0.38 | 0.03 | 2.4 | 0.26 | 0.24 |
| E34 (8893833) | | 9.5 | 61.0 | <0.002 | 0.03 | 0.23 | 8.2 | 0.8 | 0.8 | 383 | 0.48 | 0.04 | 2.4 | 0.23 | 0.24 |
| E35 (8893834) | | 10.1 | 62.8 | <0.002 | 0.03 | 0.11 | 9.7 | 0.9 | 1.1 | 340 | 0.43 | 0.03 | 4.3 | 0.28 | 0.25 |
| E36 (8893835) | | 10.5 | 59.2 | <0.002 | 0.06 | 0.16 | 10.1 | 1.3 | 0.9 | 269 | 0.50 | 0.05 | 3.9 | 0.33 | 0.24 |
| E37 (8893836) | | 11.6 | 56.2 | <0.002 | 0.04 | 0.11 | 9.3 | 0.8 | 1.0 | 300 | 0.50 | 0.05 | 6.6 | 0.33 | 0.26 |
| E38 (8893837) | | 10.5 | 65.2 | <0.002 | 0.03 | 0.10 | 8.5 | 0.8 | 0.8 | 321 | 0.41 | 0.03 | 4.3 | 0.27 | 0.28 |
| E39 (8893838) | | 9.5 | 56.8 | <0.002 | 0.03 | 0.15 | 8.2 | 0.7 | 0.7 | 301 | 0.38 | 0.03 | 2.8 | 0.25 | 0.25 |
| E40 (8893839) | | 10.2 | 64.7 | <0.002 | 0.04 | 0.06 | 8.8 | 0.8 | 0.7 | 446 | 0.38 | 0.03 | 2.7 | 0.27 | 0.26 |

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 17T282581

PROJECT:

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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 02, 2018

SAMPLE TYPE: Other

| Sample ID (AGAT ID) | Analyte: Unit: RDL: | Pb ppm 0.1 | Rb ppm 0.1 | Re ppm 0.002 | S % 0.01 | Sb ppm 0.05 | Sc ppm 0.1 | Se ppm 0.5 | Sn ppm 0.2 | Sr ppm 0.2 | Ta ppm 0.05 | Te ppm 0.01 | Th ppm 0.1 | Ti % 0.01 | Tl ppm 0.01 |
|---------------------|---------------------------|------------------|------------------|--------------------|----------------|-------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|------------------|-----------------|-------------------|
| E41 (8893840) | | 10.2 | 47.3 | <0.002 | 0.04 | 0.11 | 9.2 | 1.1 | 0.8 | 355 | 0.47 | <0.01 | 3.7 | 0.34 | 0.21 |
| E42 (8893841) | | 10.2 | 45.3 | <0.002 | 0.05 | 0.25 | 13.3 | 1.4 | 0.9 | 282 | 0.41 | 0.05 | 4.4 | 0.39 | 0.19 |
| E43 (8893842) | | 10.0 | 53.7 | <0.002 | 0.04 | 0.17 | 8.5 | 1.2 | 0.9 | 354 | 0.35 | 0.04 | 2.1 | 0.31 | 0.23 |
| E44 (8893843) | | 11.3 | 51.3 | <0.002 | 0.06 | 0.19 | 9.1 | 1.0 | 0.9 | 267 | 0.42 | 0.04 | 3.6 | 0.34 | 0.24 |
| E45 (8893844) | | 13.5 | 67.8 | <0.002 | 0.04 | 0.15 | 10.9 | 1.5 | 1.0 | 281 | 0.51 | 0.04 | 4.8 | 0.32 | 0.27 |
| F1 (8893845) | | 11.0 | 64.0 | <0.002 | 0.03 | 0.09 | 8.3 | 1.0 | 0.8 | 289 | 0.35 | 0.03 | 3.7 | 0.21 | 0.25 |
| F2 (8893846) | | 10.3 | 66.6 | <0.002 | 0.02 | 0.06 | 7.7 | 0.5 | 0.9 | 333 | 0.31 | <0.01 | 2.0 | 0.20 | 0.26 |
| F3 (8893847) | | 11.1 | 61.8 | <0.002 | 0.03 | 0.10 | 10.6 | 0.8 | 0.7 | 321 | 0.43 | 0.01 | 5.1 | 0.28 | 0.25 |

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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | DATE REPORTED: Jan 02, 2018 | | | SAMPLE TYPE: Other |
|----------------------------|-----------------------------|------|-----|-----------------------------|------|------|--------------------|
| Analyte: | U | V | W | Y | Zn | Zr | |
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm | |
| RDL: | 0.005 | 0.5 | 0.1 | 0.1 | 0.5 | 0.5 | |
| D5 (8893776) | 1.07 | 116 | 0.5 | 10.0 | 55.4 | 133 | |
| D6 (8893777) | 0.851 | 73.8 | 0.4 | 9.2 | 29.5 | 130 | |
| D7 (8893778) | 0.864 | 70.4 | 0.4 | 8.6 | 47.4 | 125 | |
| D8 (8893779) | 0.993 | 94.8 | 0.5 | 10.4 | 59.9 | 150 | |
| D9 (8893780) | 0.870 | 77.9 | 0.4 | 9.3 | 54.2 | 132 | |
| D10 (8893781) | 0.871 | 72.2 | 0.4 | 8.2 | 67.8 | 140 | |
| D11 (8893782) | 1.13 | 90.6 | 0.6 | 10.0 | 89.5 | 147 | |
| D12 (8893783) | 0.942 | 83.0 | 0.5 | 8.8 | 56.3 | 123 | |
| D13 (8893784) | 0.796 | 67.6 | 0.4 | 9.1 | 35.7 | 125 | |
| D14 (8893785) | 0.820 | 73.2 | 0.4 | 8.1 | 62.9 | 110 | |
| D15 (8893786) | 0.990 | 100 | 0.7 | 9.1 | 66.3 | 114 | |
| D16 (8893787) | 0.911 | 93.7 | 0.5 | 8.8 | 112 | 91.6 | |
| D17 (8893788) | 0.910 | 81.0 | 0.6 | 9.2 | 46.1 | 139 | |
| D18 (8893789) | 0.799 | 131 | 0.5 | 7.1 | 100 | 109 | |
| D19 (8893790) | 0.818 | 82.0 | 0.6 | 7.6 | 67.3 | 146 | |
| D20 (8893791) | 0.796 | 84.1 | 0.5 | 7.5 | 45.7 | 98.5 | |
| D21 (8893792) | 0.915 | 90.7 | 0.5 | 8.8 | 60.4 | 116 | |
| D22 (8893793) | 0.951 | 94.4 | 0.5 | 8.3 | 44.6 | 116 | |
| D23 (8893794) | 1.12 | 99.8 | 0.5 | 9.3 | 46.1 | 127 | |
| D24 (8893795) | 0.853 | 81.6 | 0.4 | 8.3 | 63.0 | 127 | |
| D25 (8893796) | 0.948 | 84.6 | 0.5 | 9.1 | 94.9 | 123 | |
| D26 (8893797) | 1.42 | 150 | 0.7 | 11.3 | 83.8 | 141 | |
| D27 (8893798) | 0.959 | 103 | 0.5 | 8.8 | 96.6 | 103 | |
| D28 (8893799) | 0.967 | 88.9 | 0.4 | 8.9 | 113 | 108 | |
| E1 (8893800) | 0.702 | 80.6 | 0.4 | 7.5 | 37.5 | 96.0 | |
| E2 (8893801) | 0.848 | 74.3 | 0.4 | 8.4 | 36.0 | 97.2 | |
| E3 (8893802) | 0.884 | 86.9 | 0.4 | 10.1 | 43.1 | 85.4 | |
| E4 (8893803) | 0.905 | 97.7 | 0.4 | 11.0 | 37.9 | 105 | |
| E5 (8893804) | 1.15 | 101 | 0.4 | 12.5 | 43.3 | 100 | |
| E6 (8893805) | 0.874 | 101 | 0.5 | 10.0 | 51.3 | 108 | |
| E7 (8893806) | 0.771 | 86.0 | 0.5 | 8.0 | 45.8 | 92.1 | |
| E8 (8893807) | 0.845 | 80.1 | 0.5 | 8.3 | 37.5 | 109 | |

Certified By:



Certificate of Analysis

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<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 02, 2018

SAMPLE TYPE: Other

| Analyte: | U | V | W | Y | Zn | Zr |
|---------------|-------|------|-----|------|------|------|
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm |
| RDL: | 0.005 | 0.5 | 0.1 | 0.1 | 0.5 | 0.5 |
| E9 (8893808) | 0.780 | 92.0 | 0.4 | 8.6 | 27.0 | 100 |
| E10 (8893809) | 0.684 | 106 | 0.5 | 7.0 | 45.9 | 78.5 |
| E11 (8893810) | 0.802 | 104 | 0.4 | 8.9 | 41.3 | 139 |
| E12 (8893811) | 0.749 | 98.9 | 0.6 | 8.4 | 53.8 | 88.5 |
| E13 (8893812) | 0.760 | 110 | 0.4 | 8.3 | 63.6 | 93.2 |
| E14 (8893813) | 0.708 | 90.7 | 0.4 | 7.6 | 75.0 | 69.8 |
| E15 (8893814) | 0.932 | 99.4 | 1.0 | 8.3 | 122 | 84.8 |
| E16 (8893815) | 0.869 | 78.3 | 0.4 | 8.9 | 52.6 | 137 |
| E17 (8893816) | 0.981 | 81.9 | 0.5 | 8.7 | 124 | 128 |
| E18 (8893817) | 0.811 | 68.7 | 0.4 | 7.2 | 112 | 118 |
| E19 (8893818) | 1.19 | 90.5 | 0.4 | 13.3 | 96.7 | 193 |
| E20 (8893819) | 0.892 | 83.8 | 0.5 | 9.0 | 45.5 | 123 |
| E21 (8893820) | 0.841 | 118 | 0.4 | 11.0 | 43.7 | 157 |
| E22 (8893821) | 0.860 | 97.3 | 0.4 | 8.5 | 78.5 | 109 |
| E23 (8893822) | 0.823 | 79.2 | 0.3 | 11.0 | 30.7 | 105 |
| E24 (8893823) | 0.685 | 82.6 | 0.4 | 7.5 | 63.7 | 83.7 |
| E25 (8893824) | 0.647 | 73.5 | 0.4 | 7.2 | 22.3 | 102 |
| E26 (8893825) | 0.822 | 99.8 | 0.4 | 7.8 | 38.2 | 104 |
| E27 (8893826) | 0.818 | 107 | 0.4 | 7.8 | 35.3 | 103 |
| E28 (8893827) | 0.602 | 75.7 | 0.2 | 6.5 | 18.2 | 86.4 |
| E29 (8893828) | 0.688 | 77.5 | 0.3 | 6.4 | 25.6 | 103 |
| E30 (8893829) | 0.842 | 93.7 | 0.4 | 10.6 | 31.9 | 104 |
| E31 (8893830) | 0.965 | 93.1 | 0.4 | 9.0 | 31.7 | 98.0 |
| E32 (8893831) | 0.910 | 78.9 | 0.6 | 7.1 | 29.3 | 139 |
| E33 (8893832) | 0.558 | 70.8 | 0.9 | 6.5 | 40.1 | 69.0 |
| E34 (8893833) | 1.50 | 66.1 | 0.3 | 7.5 | 24.8 | 54.6 |
| E35 (8893834) | 0.693 | 77.8 | 0.3 | 8.0 | 29.2 | 107 |
| E36 (8893835) | 0.847 | 85.1 | 0.4 | 7.8 | 51.3 | 101 |
| E37 (8893836) | 0.871 | 85.0 | 0.5 | 8.0 | 43.5 | 120 |
| E38 (8893837) | 0.747 | 68.6 | 0.4 | 7.3 | 24.1 | 117 |
| E39 (8893838) | 0.666 | 62.2 | 0.3 | 6.7 | 38.8 | 90.3 |
| E40 (8893839) | 0.544 | 61.9 | 0.4 | 6.1 | 24.9 | 95.1 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282581

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | DATE REPORTED: Jan 02, 2018 | | | SAMPLE TYPE: Other |
|----------------------------|-----------------------------|-------|------|-----------------------------|-----|------|--------------------|
| Analyte: | U | V | W | Y | Zn | Zr | |
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm | |
| Sample ID (AGAT ID) | RDL: | 0.005 | 0.5 | 0.1 | 0.1 | 0.5 | 0.5 |
| E41 (8893840) | | 0.663 | 76.5 | 1.4 | 7.2 | 38.1 | 104 |
| E42 (8893841) | | 0.780 | 122 | 0.3 | 8.1 | 96.5 | 99.1 |
| E43 (8893842) | | 0.587 | 75.0 | 0.3 | 6.6 | 87.9 | 79.9 |
| E44 (8893843) | | 0.819 | 86.7 | 0.4 | 7.4 | 118 | 95.4 |
| E45 (8893844) | | 0.983 | 103 | 0.5 | 9.4 | 94.7 | 131 |
| F1 (8893845) | | 0.691 | 62.4 | 0.3 | 6.4 | 22.4 | 84.4 |
| F2 (8893846) | | 0.439 | 66.6 | 0.2 | 5.9 | 17.0 | 57.6 |
| F3 (8893847) | | 0.680 | 92.5 | 0.3 | 9.1 | 25.0 | 93.8 |

Comments: RDL - Reported Detection Limit
 8893776-8893847 As, Sb values may be low due to digestion losses.

Certified By:



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| Parameter | REPLICATE #1 | | | | REPLICATE #2 | | | | REPLICATE #3 | | | | REPLICATE #4 | | | |
|-----------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|
| | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD |
| Ag | 8893776 | 0.54 | 0.54 | 0.0% | 8893795 | 0.31 | 0.34 | 9.2% | 8893815 | 0.33 | 0.35 | 5.9% | 8893835 | 0.442 | 0.497 | 11.7% |
| Al | 8893776 | 6.79 | 7.15 | 5.2% | 8893795 | 7.34 | 7.47 | 1.8% | 8893815 | 7.74 | 7.61 | 1.7% | 8893835 | 7.37 | 7.07 | 4.2% |
| As | 8893776 | 8.8 | 6.8 | 25.6% | 8893795 | 3.3 | 3.2 | 3.1% | 8893815 | 3.6 | 3.1 | 14.9% | 8893835 | 5.9 | 6.0 | 1.7% |
| Ba | 8893776 | 421 | 434 | 3.0% | 8893795 | 512 | 511 | 0.2% | 8893815 | 559 | 553 | 1.1% | 8893835 | 483 | 468 | 3.2% |
| Be | 8893776 | 1.30 | 1.38 | 6.0% | 8893795 | 1.44 | 1.52 | 5.4% | 8893815 | 1.32 | 1.48 | 11.4% | 8893835 | 1.33 | 1.43 | 7.2% |
| Bi | 8893776 | 0.27 | 0.21 | 25.0% | 8893795 | 0.11 | 0.12 | 8.7% | 8893815 | 0.10 | 0.11 | 9.5% | 8893835 | 0.14 | 0.14 | 0.0% |
| Ca | 8893776 | 1.28 | 1.32 | 3.1% | 8893795 | 1.45 | 1.47 | 1.4% | 8893815 | 1.61 | 1.58 | 1.9% | 8893835 | 1.35 | 1.30 | 3.8% |
| Cd | 8893776 | 0.122 | 0.103 | 16.9% | 8893795 | 0.08 | 0.08 | 0.0% | 8893815 | 0.07 | 0.08 | 13.3% | 8893835 | 0.09 | 0.09 | 0.0% |
| Ce | 8893776 | 37.6 | 41.0 | 8.7% | 8893795 | 29.8 | 31.7 | 6.2% | 8893815 | 35.2 | 40.3 | 13.5% | 8893835 | 25.1 | 31.4 | 22.3% |
| Co | 8893776 | 17.4 | 16.4 | 5.9% | 8893795 | 17.1 | 17.7 | 3.4% | 8893815 | 12.4 | 13.5 | 8.5% | 8893835 | 16.5 | 17.6 | 6.5% |
| Cr | 8893776 | 100 | 92.7 | 7.6% | 8893795 | 76.6 | 70.3 | 8.6% | 8893815 | 73.6 | 76.0 | 3.2% | 8893835 | 75.7 | 77.1 | 1.8% |
| Cs | 8893776 | 1.71 | 1.64 | 4.2% | 8893795 | 1.99 | 2.36 | 17.0% | 8893815 | 1.67 | 1.82 | 8.6% | 8893835 | 2.14 | 2.26 | 5.5% |
| Cu | 8893776 | 180 | 70.9 | | 8893795 | 15.6 | 14.6 | 6.6% | 8893815 | 14.5 | 15.2 | 4.7% | 8893835 | 17.0 | 17.1 | 0.6% |
| Fe | 8893776 | 4.24 | 4.36 | 2.8% | 8893795 | 3.06 | 3.00 | 2.0% | 8893815 | 2.83 | 2.77 | 2.1% | 8893835 | 3.41 | 3.25 | 4.8% |
| Ga | 8893776 | 17.3 | 16.3 | 6.0% | 8893795 | 18.3 | 19.5 | 6.3% | 8893815 | 17.5 | 19.3 | 9.8% | 8893835 | 18.8 | 20.3 | 7.7% |
| Ge | 8893776 | 0.38 | 0.73 | | 8893795 | 0.08 | 0.10 | 22.2% | 8893815 | 0.20 | 0.21 | 4.9% | 8893835 | < 0.05 | < 0.05 | 0.0% |
| Hf | 8893776 | 3.2 | 3.7 | 14.5% | 8893795 | 3.1 | 3.7 | 17.6% | 8893815 | 3.4 | 3.8 | 11.1% | 8893835 | 2.5 | 2.8 | 11.3% |
| In | 8893776 | 0.0337 | 0.0261 | 25.4% | 8893795 | 0.025 | 0.031 | | 8893815 | 0.021 | 0.03 | 35.3% | 8893835 | 0.028 | 0.028 | 0.0% |
| K | 8893776 | 1.41 | 1.48 | 4.8% | 8893795 | 1.76 | 1.74 | 1.1% | 8893815 | 1.97 | 1.94 | 1.5% | 8893835 | 1.68 | 1.56 | 7.4% |
| La | 8893776 | 18.0 | 19.3 | 7.0% | 8893795 | 13.6 | 14.6 | 7.1% | 8893815 | 15.9 | 18.4 | 14.6% | 8893835 | 11.1 | 13.6 | 20.2% |
| Li | 8893776 | 23.1 | 23.4 | 1.3% | 8893795 | 22.2 | 22.2 | 0.0% | 8893815 | 19.6 | 19.3 | 1.5% | 8893835 | 25.5 | 24.6 | 3.6% |
| Mg | 8893776 | 0.72 | 0.74 | 2.7% | 8893795 | 0.76 | 0.75 | 1.3% | 8893815 | 0.865 | 0.845 | 2.3% | 8893835 | 0.806 | 0.759 | 6.0% |
| Mn | 8893776 | 451 | 452 | 0.2% | 8893795 | 358 | 356 | 0.6% | 8893815 | 404 | 390 | 3.5% | 8893835 | 400 | 379 | 5.4% |
| Mo | 8893776 | 0.76 | 0.96 | 23.3% | 8893795 | 0.52 | 0.61 | 15.9% | 8893815 | 0.42 | 0.47 | 11.2% | 8893835 | 0.634 | 0.667 | 5.1% |
| Na | 8893776 | 1.61 | 1.69 | 4.8% | 8893795 | 1.95 | 1.99 | 2.0% | 8893815 | 2.13 | 2.10 | 1.4% | 8893835 | 1.76 | 1.69 | 4.1% |
| Nb | 8893776 | 6.86 | 6.30 | 8.5% | 8893795 | 6.0 | 6.8 | 12.5% | 8893815 | 6.1 | 6.6 | 7.9% | 8893835 | 5.8 | 6.1 | 5.0% |
| Ni | 8893776 | 61.5 | 47.5 | 25.7% | 8893795 | 41.9 | 39.8 | 5.1% | 8893815 | 36.4 | 37.9 | 4.0% | 8893835 | 45.8 | 46.6 | 1.7% |
| P | 8893776 | 751 | 751 | 0.0% | 8893795 | 465 | 455 | 2.2% | 8893815 | 590 | 635 | 7.3% | 8893835 | 764 | 800 | 4.6% |
| Pb | 8893776 | 14.2 | 13.5 | 5.1% | 8893795 | 13.9 | 15.6 | 11.5% | 8893815 | 10.9 | 11.4 | 4.5% | 8893835 | 10.5 | 11.6 | 10.0% |
| Rb | 8893776 | 53.0 | 50.2 | 5.4% | 8893795 | 61.8 | 69.6 | 11.9% | 8893815 | 63.4 | 65.6 | 3.4% | 8893835 | 59.2 | 64.7 | 8.9% |
| Re | 8893776 | < 0.002 | 0.005 | | 8893795 | < 0.002 | < 0.002 | 0.0% | 8893815 | < 0.002 | < 0.002 | 0.0% | 8893835 | < 0.002 | < 0.002 | 0.0% |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

| | | | | | | | | | | | | | | | | |
|----|---------|-------|-------|-------|---------|-------|------|-------|---------|-------|-------|-------|---------|-------|-------|-------|
| S | 8893776 | 0.06 | 0.05 | 18.2% | 8893795 | 0.04 | 0.04 | 0.0% | 8893815 | 0.04 | 0.04 | 0.0% | 8893835 | 0.055 | 0.054 | 1.8% |
| Sb | 8893776 | 0.25 | 0.26 | 3.9% | 8893795 | 0.14 | 0.15 | 6.9% | 8893815 | 0.12 | 0.13 | 8.0% | 8893835 | 0.164 | 0.197 | 18.3% |
| Sc | 8893776 | 11.0 | 10.7 | 2.8% | 8893795 | 10.7 | 11.2 | 4.6% | 8893815 | 10.4 | 11.1 | 6.5% | 8893835 | 10.1 | 10.8 | 6.7% |
| Se | 8893776 | 1.7 | 1.1 | | 8893795 | 1.2 | 1.5 | 22.2% | 8893815 | 1.1 | 1.3 | 16.7% | 8893835 | 1.33 | 1.55 | 15.3% |
| Sn | 8893776 | 1.6 | 1.3 | 20.7% | 8893795 | 1.1 | 1.3 | 16.7% | 8893815 | 0.9 | 1.0 | 10.5% | 8893835 | 0.9 | 1.0 | 10.5% |
| Sr | 8893776 | 261 | 265 | 1.5% | 8893795 | 307 | 311 | 1.3% | 8893815 | 323 | 318 | 1.6% | 8893835 | 269 | 256 | 5.0% |
| Ta | 8893776 | 0.504 | 0.594 | 16.4% | 8893795 | 0.49 | 0.50 | 2.0% | 8893815 | 0.49 | 0.52 | 5.9% | 8893835 | 0.501 | 0.539 | 7.3% |
| Te | 8893776 | 0.24 | 0.14 | | 8893795 | 0.04 | 0.03 | 28.6% | 8893815 | 0.04 | 0.05 | | 8893835 | 0.05 | 0.05 | 0.0% |
| Th | 8893776 | 6.28 | 7.36 | 15.8% | 8893795 | 4.1 | 4.6 | 11.5% | 8893815 | 5.2 | 4.9 | 5.9% | 8893835 | 3.9 | 5.1 | 26.7% |
| Ti | 8893776 | 0.40 | 0.40 | 0.0% | 8893795 | 0.32 | 0.32 | 0.0% | 8893815 | 0.36 | 0.35 | 2.8% | 8893835 | 0.326 | 0.317 | 2.8% |
| Tl | 8893776 | 0.21 | 0.21 | 0.0% | 8893795 | 0.25 | 0.29 | 14.8% | 8893815 | 0.26 | 0.28 | 7.4% | 8893835 | 0.241 | 0.259 | 7.2% |
| U | 8893776 | 1.07 | 1.27 | 17.1% | 8893795 | 0.853 | 0.94 | 9.7% | 8893815 | 0.869 | 0.889 | 2.3% | 8893835 | 0.847 | 1.09 | 25.1% |
| V | 8893776 | 116 | 107 | 8.1% | 8893795 | 81.6 | 93.8 | 13.9% | 8893815 | 78.3 | 80.6 | 2.9% | 8893835 | 85.1 | 98.8 | 14.9% |
| W | 8893776 | 0.5 | 0.5 | 0.0% | 8893795 | 0.4 | 0.3 | | 8893815 | 0.4 | 0.5 | 22.2% | 8893835 | 0.4 | 0.5 | 22.2% |
| Y | 8893776 | 10.0 | 10.4 | 3.9% | 8893795 | 8.3 | 9.3 | 11.4% | 8893815 | 8.9 | 9.6 | 7.6% | 8893835 | 7.82 | 8.71 | 10.8% |
| Zn | 8893776 | 55.4 | 52.8 | 4.8% | 8893795 | 63.0 | 63.0 | 0.0% | 8893815 | 52.6 | 52.0 | 1.1% | 8893835 | 51.3 | 53.1 | 3.4% |
| Zr | 8893776 | 133 | 149 | 11.3% | 8893795 | 127 | 131 | 3.1% | 8893815 | 137 | 151 | 9.7% | 8893835 | 101 | 108 | 6.7% |

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| Parameter | CRM #1 (ref.SY-4) | | | | CRM #2 (ref.GTS-2A) | | | | CRM #3 (ref.Till-2) | | | | CRM #4 (ref.SY-4) | | | |
|-----------|-------------------|--------|----------|------------|---------------------|--------|----------|------------|---------------------|--------|----------|------------|-------------------|--------|----------|------------|
| | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits |
| Al | 10.95 | 11.37 | 104% | 90% - 110% | 6.96 | 7.34 | 106% | 90% - 110% | | | | | | | | |
| As | | | | | 124 | 133 | 107% | 90% - 110% | | | | | | | | |
| Ba | 340 | 346 | 102% | 90% - 110% | 186 | 191 | 102% | 90% - 110% | | | | | | | | |
| Be | 2.6 | 3.0 | 115% | 90% - 110% | | | | | | | | | | | | |
| Ca | 5.72 | 5.9 | 103% | 90% - 110% | 4.01 | 4.25 | 106% | 90% - 110% | | | | | | | | |
| Ce | 122 | 118 | 96% | 90% - 110% | 24 | 21.8 | 91% | 90% - 110% | | | | | | | | |
| Co | 2.8 | 2.7 | 96% | 90% - 110% | 22.1 | 24.3 | 109% | 90% - 110% | | | | | | | | |
| Cs | 1.5 | 1.7 | 113% | 90% - 110% | | | | | | | | | | | | |
| Cu | 7 | 8 | 108% | 90% - 110% | 88.6 | 96.9 | 109% | 90% - 110% | | | | | | | | |
| Fe | 4.34 | 4.25 | 98% | 90% - 110% | 7.56 | 7.73 | 102% | 90% - 110% | | | | | | | | |
| Ga | 35 | 38 | 108% | 90% - 110% | | | | | | | | | | | | |
| K | 1.37 | 1.5 | 109% | 90% - 110% | 2.021 | 2.147 | 106% | 90% - 110% | | | | | | | | |
| La | 58 | 52.2 | 90% | 90% - 110% | | | | | | | | | | | | |
| Li | 37 | 40 | 108% | 90% - 110% | | | | | | | | | | | | |
| Mg | 0.325 | 0.325 | 100% | 90% - 110% | 2.412 | 2.575 | 107% | 90% - 110% | | | | | | | | |
| Mn | | | | | 1510 | 1556 | 103% | 90% - 110% | | | | | | | | |
| Na | 5.267 | 5.693 | 108% | 90% - 110% | 0.617 | 0.674 | 109% | 90% - 110% | | | | | | | | |
| Nb | 13 | 13 | 99% | 90% - 110% | | | | | | | | | | | | |
| Ni | 9 | 7 | 80% | 90% - 110% | 77.1 | 73.7 | 96% | 90% - 110% | | | | | | | | |
| P | | | | | 892 | 935 | 104% | 90% - 110% | | | | | | | | |
| Pb | 10 | 9 | 90% | 90% - 110% | | | | | | | | | | | | |
| Rb | 55 | 60 | 109% | 90% - 110% | | | | | | | | | | | | |
| S | | | | | 0.348 | 0.382 | 109% | 90% - 110% | | | | | | | | |
| Sc | 1.1 | 1.2 | 109% | 90% - 110% | | | | | | | | | | | | |
| Sr | 1191 | 1282 | 107% | 90% - 110% | 92.8 | 99.5 | 107% | 90% - 110% | | | | | | | | |
| Ta | 0.9 | 0.9 | 100% | 90% - 110% | | | | | | | | | | | | |
| Th | 1.4 | 1.2 | 85% | 90% - 110% | | | | | | | | | | | | |
| Ti | 0.172 | 0.179 | 104% | 90% - 110% | | | | | | | | | | | | |
| V | 8 | 7 | 83% | 90% - 110% | | | | | 77 | 85 | 110% | 90% - 110% | 8 | 8 | 96% | 90% - 110% |
| Y | 119 | 126 | 105% | 90% - 110% | | | | | | | | | | | | |
| Zn | 93 | 87 | 93% | 90% - 110% | 208 | 208 | 100% | 90% - 110% | | | | | | | | |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

| Parameter | CRM #5 (ref.Till-2) | | | | CRM #6 (ref.SY-4) | | | | CRM #7 (ref.GTS-2A) | | | | | | | |
|-----------|---------------------|--------|----------|------------|-------------------|--------|----------|------------|---------------------|--------|----------|------------|--|--|--|--|
| | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | | | | |
| Al | 8.17 | 8.9 | 109% | 90% - 110% | 10.95 | 10.59 | 97% | 90% - 110% | 6.96 | 6.77 | 97% | 90% - 110% | | | | |
| Ba | 540 | 556 | 103% | 90% - 110% | 340 | 328 | 97% | 90% - 110% | 186 | 180 | 97% | 90% - 110% | | | | |
| Be | 4.0 | 3.9 | 97% | 90% - 110% | 2.6 | 2.9 | 112% | 90% - 110% | | | | | | | | |
| Ca | 0.907 | 1.001 | 110% | 90% - 110% | 5.72 | 5.4 | 94% | 90% - 110% | 4.01 | 3.92 | 98% | 90% - 110% | | | | |
| Ce | 98 | 98.6 | 101% | 90% - 110% | 122 | 111 | 91% | 90% - 110% | 24 | 21.6 | 90% | 90% - 110% | | | | |
| Co | | | | | 2.8 | 2.5 | 89% | 90% - 110% | 22.1 | 24 | 108% | 90% - 110% | | | | |
| Cr | 60.3 | 60.4 | 100% | 90% - 110% | | | | | | | | | | | | |
| Cs | 12 | 14 | 116% | 90% - 110% | 1.5 | 1.7 | 113% | 90% - 110% | | | | | | | | |
| Cu | 150 | 162 | 108% | 90% - 110% | | | | | 88.6 | 88.4 | 100% | 90% - 110% | | | | |
| Fe | 3.77 | 4.02 | 107% | 90% - 110% | 4.34 | 4.1 | 94% | 90% - 110% | 7.56 | 7.15 | 95% | 90% - 110% | | | | |
| Ga | | | | | 35 | 39 | 111% | 90% - 110% | | | | | | | | |
| K | | | | | 1.37 | 1.39 | 101% | 90% - 110% | 2.021 | 2.005 | 99% | 90% - 110% | | | | |
| La | 44 | 40.1 | 91% | 90% - 110% | 58 | 45.6 | 79% | 90% - 110% | | | | | | | | |
| Li | 47 | 50 | 107% | 90% - 110% | 37 | 40 | 108% | 90% - 110% | | | | | | | | |
| Mg | 1.10 | 1.15 | 104% | 90% - 110% | 0.325 | 0.298 | 92% | 90% - 110% | 2.412 | 2.375 | 98% | 90% - 110% | | | | |
| Mn | 780 | 799 | 102% | 90% - 110% | | | | | 1510 | 1453 | 96% | 90% - 110% | | | | |
| Mo | 14 | 12 | 85% | 90% - 110% | | | | | | | | | | | | |
| Na | 1.624 | 1.733 | 106% | 90% - 110% | 5.267 | 5.547 | 105% | 90% - 110% | 0.617 | 0.624 | 101% | 90% - 110% | | | | |
| Nb | 20 | 18 | 90% | 90% - 110% | 13 | 12 | 89% | 90% - 110% | | | | | | | | |
| Ni | 32 | 33 | 103% | 90% - 110% | 9 | 7 | 78% | 90% - 110% | 77.1 | 69.1 | 90% | 90% - 110% | | | | |
| P | | | | | | | | | 892 | 966 | 108% | 90% - 110% | | | | |
| Pb | 31 | 27 | 89% | 90% - 110% | 10 | 8 | 81% | 90% - 110% | | | | | | | | |
| Rb | | | | | 55 | 61 | 110% | 90% - 110% | | | | | | | | |
| S | | | | | | | | | 0.348 | 0.379 | 109% | 90% - 110% | | | | |
| Sb | 0.8 | 0.8 | 100% | 90% - 110% | | | | | | | | | | | | |
| Sc | 12 | 14 | 116% | 90% - 110% | 1.1 | 0.9 | 86% | 90% - 110% | | | | | | | | |
| Sr | 144 | 157 | 109% | 90% - 110% | 1191 | 1250 | 105% | 90% - 110% | 92.8 | 92.3 | 99% | 90% - 110% | | | | |
| Ta | 1.9 | 1.4 | 73% | 90% - 110% | 0.9 | 1 | 106% | 90% - 110% | | | | | | | | |
| Th | 18.4 | 16.4 | 89% | 90% - 110% | | | | | | | | | | | | |
| Ti | 0.53 | 0.5 | 95% | 90% - 110% | 0.172 | 0.167 | 97% | 90% - 110% | | | | | | | | |
| U | 5.7 | 4.1 | 72% | 90% - 110% | | | | | | | | | | | | |
| V | | | | | 8 | 7 | 81% | 90% - 110% | | | | | | | | |



AGAT Laboratories

Quality Assurance - Certified Reference materials

AGAT WORK ORDER: 17T282581

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

| | | | | | | | | | | | | | | | | |
|----|-----|-----|-----|------------|-----|----|-----|------------|-----|-----|-----|------------|--|--|--|--|
| W | 5 | 4 | 88% | 90% - 110% | | | | | | | | | | | | |
| Y | | | | | 119 | 98 | 82% | 90% - 110% | | | | | | | | |
| Zn | 130 | 122 | 94% | 90% - 110% | 93 | 83 | 89% | 90% - 110% | 208 | 199 | 96% | 90% - 110% | | | | |

Method Summary

CLIENT NAME: CRUZ COBALT CORP.

AGAT WORK ORDER: 17T282581

PROJECT:

ATTENTION TO: Jason Gigliotti, Jim Nelson

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|----------------|---------------|----------------------|----------------------|
| Solid Analysis | | | |
| Ag | MIN-200-12020 | | ICP-MS |
| Al | MIN-200-12020 | | ICP/OES |
| As | MIN-200-12020 | | ICP-MS |
| Ba | MIN-200-12020 | | ICP-MS |
| Be | MIN-200-12020 | | ICP-MS |
| Bi | MIN-200-12020 | | ICP-MS |
| Ca | MIN-200-12020 | | ICP/OES |
| Cd | MIN-200-12020 | | ICP-MS |
| Ce | MIN-200-12020 | | ICP-MS |
| Co | MIN-200-12020 | | ICP-MS |
| Cr | MIN-200-12020 | | ICP/OES |
| Cs | MIN-200-12020 | | ICP-MS |
| Cu | MIN-200-12020 | | ICP-MS |
| Fe | MIN-200-12020 | | ICP/OES |
| Ga | MIN-200-12020 | | ICP-MS |
| Ge | MIN-200-12020 | | ICP-MS |
| Hf | MIN-200-12020 | | ICP-MS |
| In | MIN-200-12020 | | ICP-MS |
| K | MIN-200-12020 | | ICP/OES |
| La | MIN-200-12020 | | ICP-MS |
| Li | MIN-200-12020 | | ICP-MS |
| Mg | MIN-200-12020 | | ICP/OES |
| Mn | MIN-200-12020 | | ICP/OES |
| Mo | MIN-200-12020 | | ICP-MS |
| Na | MIN-200-12020 | | ICP/OES |
| Nb | MIN-200-12020 | | ICP-MS |
| Ni | MIN-200-12020 | | ICP-MS |
| P | MIN-200-12020 | | ICP/OES |
| Pb | MIN-200-12020 | | ICP-MS |
| Rb | MIN-200-12020 | | ICP-MS |
| Re | MIN-200-12020 | | ICP-MS |
| S | MIN-200-12020 | | ICP/OES |
| Sb | MIN-200-12020 | | ICP-MS |
| Sc | MIN-200-12020 | | ICP-MS |
| Se | MIN-200-12020 | | ICP-MS |
| Sn | MIN-200-12020 | | ICP-MS |
| Sr | MIN-200-12020 | | ICP-MS |
| Ta | MIN-200-12020 | | ICP-MS |
| Te | MIN-200-12020 | | ICP-MS |
| Th | MIN-200-12020 | | ICP-MS |
| Ti | MIN-200-12020 | | ICP/OES |
| Tl | MIN-200-12020 | | ICP-MS |
| U | MIN-200-12020 | | ICP-MS |
| V | MIN-200-12020 | | ICP/OES |
| W | MIN-200-12020 | | ICP-MS |
| Y | MIN-200-12020 | | ICP-MS |
| Zn | MIN-200-12020 | | ICP-MS |
| Zr | MIN-200-12020 | | ICP-MS |

CLIENT NAME: CRUZ COBALT CORP.
P.O BOX 10112 1470-701 W. GEORGIA ST
VANCOUVER, BC V7Y 1C6
604-646-6908

ATTENTION TO: Jason Gigliotti, Jim Nelson

PROJECT:

AGAT WORK ORDER: 17T282583

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Jan 08, 2018

PAGES (INCLUDING COVER): 18

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 17T282583

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 08, 2018

SAMPLE TYPE: Other

| Sample ID (AGAT ID) | Analyte: Unit: RDL: | Ag ppm 0.01 | Al % 0.01 | As ppm 0.2 | Ba ppm 1 | Be ppm 0.05 | Bi ppm 0.01 | Ca % 0.01 | Cd ppm 0.02 | Ce ppm 0.01 | Co ppm 0.05 | Cr ppm 0.5 | Cs ppm 0.01 | Cu ppm 0.5 | Fe % 0.01 |
|---------------------|---------------------------|-------------------|-----------------|------------------|----------------|-------------------|-------------------|-----------------|-------------------|-------------------|-------------------|------------------|-------------------|------------------|-----------------|
| F4 (8893859) | | 0.17 | 6.20 | 1.7 | 478 | 1.12 | 0.10 | 1.64 | 0.04 | 20.6 | 9.79 | 48.2 | 1.19 | 23.5 | 2.20 |
| F5 (8893860) | | 0.13 | 6.52 | 3.2 | 539 | 1.27 | 0.11 | 1.68 | 0.03 | 35.6 | 11.7 | 55.2 | 1.45 | 35.6 | 2.40 |
| F6 (8893861) | | 0.18 | 5.70 | 3.4 | 435 | 1.17 | 0.11 | 1.59 | 0.03 | 23.7 | 9.17 | 44.6 | 0.95 | 54.1 | 2.21 |
| F7 (8893862) | | 0.14 | 6.58 | 2.8 | 498 | 1.26 | 0.09 | 1.42 | 0.04 | 19.8 | 10.6 | 44.3 | 1.21 | 14.8 | 2.39 |
| F8 (8893863) | | 0.24 | 6.37 | 1.9 | 505 | 1.49 | 0.09 | 1.40 | 0.05 | 21.3 | 9.44 | 38.0 | 1.21 | 9.8 | 2.26 |
| F9 (8893864) | | 0.21 | 6.55 | 2.5 | 480 | 1.33 | 0.10 | 1.47 | 0.07 | 21.3 | 10.9 | 71.2 | 1.39 | 8.8 | 3.01 |
| F10 (8893865) | | 0.31 | 8.59 | 2.7 | 563 | 1.42 | 0.13 | 1.88 | 0.11 | 50.4 | 16.0 | 94.1 | 1.74 | 11.9 | 3.85 |
| F11 (8893866) | | 0.31 | 7.24 | 2.0 | 469 | 1.30 | 0.10 | 1.41 | 0.09 | 25.9 | 12.7 | 79.3 | 1.46 | 15.4 | 3.31 |
| F12 (8893867) | | 0.36 | 7.12 | 2.8 | 442 | 1.10 | 0.14 | 1.36 | 0.07 | 19.5 | 11.7 | 80.3 | 1.47 | 14.5 | 3.87 |
| F13 (8893868) | | 0.29 | 6.92 | 3.6 | 449 | 1.33 | 0.11 | 1.41 | 0.06 | 21.4 | 12.7 | 71.5 | 1.56 | 15.1 | 3.21 |
| F14 (8893869) | | 0.22 | 6.34 | 1.8 | 423 | 1.13 | 0.11 | 1.37 | 0.07 | 27.4 | 9.43 | 60.5 | 1.24 | 9.3 | 2.95 |
| F15 (8893870) | | 0.40 | 6.72 | 2.4 | 431 | 1.23 | 0.09 | 1.36 | 0.05 | 17.3 | 9.35 | 65.1 | 1.26 | 10.0 | 2.89 |
| F16 (8893871) | | 0.17 | 6.41 | 2.5 | 441 | 1.22 | 0.08 | 1.44 | 0.05 | 39.0 | 10.3 | 54.0 | 1.03 | 8.1 | 2.79 |
| F17 (8893872) | | 0.15 | 6.14 | 1.7 | 424 | 1.11 | 0.10 | 1.62 | 0.07 | 27.9 | 10.7 | 81.6 | 0.93 | 7.5 | 3.41 |
| F18 (8893873) | | 0.21 | 6.50 | 2.7 | 521 | 1.23 | 0.12 | 1.36 | 0.04 | 21.3 | 8.96 | 43.7 | 0.95 | 7.9 | 2.10 |
| F19 (8893874) | | 0.44 | 5.99 | 4.0 | 419 | 1.09 | 0.12 | 1.33 | 0.09 | 21.1 | 9.39 | 57.5 | 1.15 | 10.9 | 2.64 |
| F20 (8893875) | | 0.23 | 7.19 | 4.4 | 575 | 1.31 | 0.15 | 1.67 | 0.07 | 29.9 | 10.6 | 53.5 | 1.59 | 26.9 | 2.51 |
| F21 (8893876) | | 0.14 | 6.06 | 1.8 | 499 | 1.15 | 0.08 | 1.53 | 0.05 | 16.8 | 8.18 | 40.6 | 0.86 | 7.0 | 2.25 |
| F22 (8893877) | | 0.27 | 6.59 | 2.5 | 429 | 1.12 | 0.12 | 1.49 | 0.08 | 20.5 | 11.0 | 64.1 | 0.99 | 9.7 | 3.07 |
| F23 (8893878) | | 0.25 | 6.48 | 3.2 | 499 | 1.22 | 0.13 | 1.44 | 0.06 | 25.7 | 10.2 | 52.3 | 1.26 | 28.1 | 2.43 |
| F24 (8893879) | | 0.38 | 5.45 | 5.7 | 434 | 0.99 | 0.27 | 1.21 | 0.09 | 23.4 | 8.79 | 44.5 | 1.34 | 46.3 | 2.38 |
| F25 (8893880) | | 0.36 | 6.19 | 4.1 | 431 | 1.13 | 0.20 | 1.25 | 0.08 | 24.9 | 10.9 | 57.3 | 1.51 | 18.2 | 3.28 |
| F26 (8893881) | | 0.27 | 7.71 | 6.7 | 577 | 1.37 | 0.18 | 1.79 | 0.07 | 38.4 | 13.7 | 62.5 | 1.66 | 72.7 | 3.31 |
| F27 (8893882) | | 0.33 | 6.59 | 13.1 | 477 | 1.21 | 0.11 | 1.48 | 0.06 | 25.3 | 12.4 | 48.0 | 1.09 | 15.6 | 2.61 |
| F28 (8893883) | | 0.76 | 6.33 | 4.9 | 418 | 1.10 | 0.15 | 1.27 | 0.10 | 25.0 | 11.5 | 62.1 | 1.62 | 18.7 | 3.08 |
| F29 (8893884) | | 0.21 | 6.63 | 3.2 | 451 | 1.01 | 0.17 | 1.30 | 0.06 | 19.8 | 9.49 | 42.5 | 1.05 | 6.7 | 2.37 |
| F30 (8893885) | | 0.55 | 7.09 | 7.3 | 354 | 1.18 | 0.21 | 1.09 | 0.09 | 23.9 | 13.0 | 70.4 | 1.84 | 24.3 | 4.69 |
| F31 (8893886) | | 0.28 | 6.36 | 4.3 | 452 | 1.29 | 0.10 | 1.47 | 0.06 | 55.1 | 10.9 | 53.9 | 1.18 | 20.2 | 2.51 |
| F32 (8893887) | | 0.30 | 6.14 | 1.7 | 478 | 1.05 | 0.10 | 1.36 | 0.07 | 24.1 | 7.63 | 48.0 | 1.18 | 7.6 | 2.13 |
| F33 (8893888) | | 0.17 | 6.32 | 2.0 | 490 | 1.19 | 0.09 | 1.32 | 0.02 | 21.5 | 7.51 | 39.6 | 1.01 | 6.0 | 2.19 |
| F34 (8893889) | | 0.26 | 7.16 | 1.8 | 451 | 1.23 | 0.10 | 1.28 | 0.07 | 23.2 | 9.48 | 60.1 | 1.18 | 6.4 | 3.12 |
| F35 (8893890) | | 0.34 | 6.32 | 2.2 | 480 | 1.08 | 0.10 | 1.55 | 0.07 | 23.6 | 8.12 | 53.1 | 1.11 | 5.8 | 2.65 |

Certified By:

Certificate of Analysis

AGAT WORK ORDER: 17T282583

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

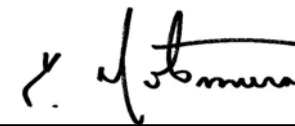
DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 08, 2018

SAMPLE TYPE: Other

| Sample ID (AGAT ID) | Analyte: Unit: RDL: | Ag ppm 0.01 | Al % 0.01 | As ppm 0.2 | Ba ppm 1 | Be ppm 0.05 | Bi ppm 0.01 | Ca % 0.01 | Cd ppm 0.02 | Ce ppm 0.01 | Co ppm 0.05 | Cr ppm 0.5 | Cs ppm 0.01 | Cu ppm 0.5 | Fe % 0.01 |
|---------------------|---------------------------|-------------------|-----------------|------------------|----------------|-------------------|-------------------|-----------------|-------------------|-------------------|-------------------|------------------|-------------------|------------------|-----------------|
| F36 (8893891) | | 0.22 | 6.69 | 1.6 | 489 | 1.15 | 0.10 | 1.31 | 0.08 | 27.6 | 10.1 | 71.0 | 1.47 | 8.6 | 2.46 |
| F37 (8893892) | | 0.28 | 6.43 | 2.1 | 460 | 1.14 | 0.14 | 1.21 | 0.08 | 22.9 | 12.3 | 75.2 | 1.63 | 8.4 | 3.09 |
| F38 (8893893) | | 0.23 | 6.59 | 2.7 | 497 | 1.10 | 0.12 | 1.44 | <0.02 | 41.4 | 11.5 | 58.4 | 1.20 | 9.7 | 2.75 |
| F39 (8893894) | | 1.28 | 6.65 | 2.3 | 482 | 1.15 | 0.11 | 1.37 | 0.07 | 22.7 | 11.3 | 69.9 | 1.29 | 11.1 | 2.79 |
| F40 (8893895) | | 0.21 | 6.14 | 1.7 | 460 | 1.13 | 0.09 | 1.39 | 0.07 | 26.1 | 8.87 | 76.7 | 1.24 | 6.3 | 2.59 |
| F41 (8893896) | | 0.26 | 5.58 | 1.8 | 346 | 0.88 | 0.11 | 1.04 | 0.07 | 22.3 | 10.5 | 49.6 | 1.34 | 9.9 | 2.68 |
| F42 (8893897) | | 0.32 | 6.94 | 4.2 | 458 | 1.13 | 0.15 | 1.28 | 0.08 | 28.9 | 13.0 | 83.7 | 1.72 | 19.3 | 3.93 |
| F43 (8893898) | | 0.30 | 7.40 | 5.5 | 408 | 1.26 | 0.21 | 1.19 | 0.26 | 27.1 | 14.4 | 80.4 | 1.90 | 16.5 | 3.98 |
| F44 (8893899) | | 0.35 | 6.47 | 6.5 | 518 | 1.28 | 0.16 | 1.40 | 0.12 | 29.4 | 9.76 | 63.7 | 1.77 | 8.2 | 2.66 |
| F45 (8893900) | | 0.34 | 5.64 | 5.0 | 435 | 1.01 | 0.15 | 1.29 | 0.07 | 24.2 | 11.4 | 69.7 | 1.46 | 11.5 | 3.60 |
| F46 (8893901) | | 0.24 | 6.29 | 14.4 | 514 | 1.08 | 0.20 | 1.40 | 0.20 | 29.5 | 11.4 | 67.4 | 2.00 | 12.5 | 3.51 |
| G1 (8893902) | | 0.09 | 6.31 | 1.5 | 494 | 1.05 | 0.07 | 1.59 | 0.04 | 34.7 | 8.78 | 71.9 | 1.06 | 11.3 | 2.71 |
| G2 (8893903) | | 0.14 | 6.12 | 2.2 | 487 | 0.99 | 0.09 | 1.44 | 0.07 | 30.1 | 8.70 | 63.9 | 1.21 | 6.4 | 2.86 |
| G3 (8893904) | | 0.20 | 6.42 | 2.9 | 472 | 1.12 | 0.08 | 1.50 | 0.05 | 19.7 | 9.21 | 55.4 | 1.00 | 6.5 | 2.37 |
| G4 (8893905) | | 0.17 | 6.49 | 1.4 | 465 | 1.26 | 0.07 | 1.53 | 0.07 | 22.2 | 8.40 | 49.2 | 0.95 | 5.3 | 2.35 |
| G5 (8893906) | | 0.24 | 6.32 | 1.8 | 470 | 1.14 | 0.08 | 1.55 | 0.06 | 28.8 | 9.44 | 79.1 | 1.09 | 6.3 | 2.77 |
| G6 (8893907) | | 0.27 | 6.61 | 0.9 | 476 | 1.10 | 0.11 | 1.52 | 0.09 | 19.7 | 7.51 | 61.6 | 1.15 | 6.6 | 3.07 |
| G7 (8893908) | | 0.15 | 6.54 | 1.3 | 474 | 1.18 | 0.08 | 1.39 | 0.07 | 24.9 | 8.20 | 55.3 | 1.08 | 6.6 | 2.29 |
| G8 (8893909) | | 0.12 | 6.65 | 1.8 | 495 | 1.05 | 0.09 | 1.32 | 0.07 | 22.7 | 7.14 | 48.3 | 1.15 | 4.0 | 2.41 |
| G9 (8893910) | | 0.26 | 6.47 | 3.1 | 461 | 1.24 | 0.09 | 1.40 | 0.07 | 20.3 | 9.65 | 52.0 | 1.12 | 6.8 | 2.16 |
| G10 (8893911) | | 0.27 | 6.20 | 3.7 | 430 | 1.18 | 0.10 | 1.52 | 0.09 | 26.2 | 10.7 | 66.4 | 1.11 | 9.3 | 3.23 |
| G11 (8893912) | | 0.17 | 6.68 | 1.8 | 475 | 1.26 | 0.08 | 1.51 | 0.09 | 36.3 | 8.85 | 59.5 | 1.13 | 5.7 | 2.48 |
| G12 (8893913) | | 0.14 | 6.01 | 1.1 | 493 | 1.25 | 0.08 | 1.56 | 0.04 | 37.6 | 7.70 | 54.9 | 1.17 | 7.5 | 2.00 |
| G13 (8893914) | | 2.23 | 6.06 | 1.6 | 495 | 1.16 | 0.08 | 1.46 | 0.04 | 23.7 | 5.58 | 56.9 | 1.15 | 3.3 | 2.13 |
| G14 (8893915) | | 0.10 | 6.31 | 2.9 | 476 | 1.24 | 0.06 | 1.45 | 0.04 | 20.3 | 8.23 | 54.7 | 0.94 | 5.0 | 2.06 |
| G15 (8893916) | | 0.67 | 6.63 | 4.9 | 490 | 1.29 | 0.13 | 1.52 | 0.06 | 42.9 | 11.6 | 69.1 | 1.46 | 19.9 | 2.61 |
| G16 (8893917) | | 0.14 | 6.49 | 3.3 | 493 | 1.30 | 0.09 | 1.49 | 0.05 | 28.8 | 11.7 | 49.9 | 1.13 | 10.0 | 2.32 |
| G17 (8893918) | | 0.16 | 6.47 | 2.2 | 499 | 1.17 | 0.10 | 1.35 | 0.06 | 20.0 | 12.3 | 50.8 | 1.30 | 7.5 | 2.72 |
| G18 (8893919) | | 0.13 | 6.38 | 3.8 | 478 | 1.15 | 0.16 | 1.42 | 0.06 | 26.1 | 11.8 | 65.3 | 1.52 | 16.4 | 3.38 |
| G19 (8893920) | | 0.23 | 6.12 | 4.7 | 429 | 1.33 | 0.13 | 1.33 | 0.06 | 48.6 | 13.6 | 61.9 | 1.24 | 28.2 | 2.58 |
| G20 (8893921) | | 0.34 | 6.47 | 3.3 | 475 | 1.12 | 0.12 | 1.44 | 0.09 | 27.4 | 10.3 | 57.4 | 1.55 | 6.8 | 2.60 |
| G21 (8893922) | | 0.17 | 6.06 | 2.4 | 462 | 1.11 | 0.12 | 1.25 | 0.06 | 26.9 | 7.02 | 59.3 | 1.06 | 5.0 | 2.77 |

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 17T282583

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | DATE REPORTED: Jan 08, 2018 | | | | SAMPLE TYPE: Other | | | | | |
|----------------------------|-----------------------------|------|-----|-----|-----------------------------|------|------|------|--------------------|------|------|------|------|------|
| Analyte: | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs | Cu | Fe |
| Unit: | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % |
| RDL: | 0.01 | 0.01 | 0.2 | 1 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.05 | 0.5 | 0.01 | 0.5 | 0.01 |
| G22 (8893923) | 0.18 | 6.44 | 6.0 | 454 | 1.48 | 0.16 | 1.41 | 0.06 | 36.8 | 14.5 | 65.3 | 1.33 | 21.1 | 2.31 |
| G23 (8893924) | 0.15 | 6.47 | 2.1 | 450 | 1.33 | 0.08 | 1.52 | 0.06 | 27.5 | 9.10 | 55.4 | 0.93 | 5.4 | 2.47 |
| G24 (8893925) | 0.26 | 5.80 | 4.5 | 367 | 0.95 | 0.20 | 0.98 | 0.21 | 20.1 | 7.16 | 60.5 | 1.37 | 14.4 | 3.91 |
| G25 (8893926) | 0.11 | 6.08 | 2.4 | 504 | 1.23 | 0.08 | 1.55 | 0.02 | 25.1 | 8.59 | 31.6 | 1.00 | 10.7 | 1.75 |
| G26 (8893927) | 0.26 | 6.38 | 3.6 | 474 | 1.27 | 0.08 | 1.53 | 0.05 | 31.4 | 9.99 | 60.9 | 1.05 | 6.5 | 2.31 |
| G27 (8893928) | 0.23 | 6.74 | 3.5 | 483 | 1.33 | 0.08 | 1.47 | 0.07 | 23.7 | 10.9 | 49.3 | 1.05 | 5.0 | 2.31 |
| G28 (8893929) | 0.17 | 6.48 | 2.0 | 487 | 1.25 | 0.10 | 1.55 | 0.05 | 18.5 | 9.46 | 49.3 | 1.15 | 3.5 | 2.60 |
| G29 (8893930) | 0.17 | 6.48 | 3.2 | 447 | 1.33 | 0.15 | 1.34 | 0.05 | 48.9 | 17.1 | 70.0 | 1.48 | 17.1 | 2.98 |

Certified By:



Certificate of Analysis

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PROJECT:

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MISSISSAUGA, ONTARIO
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<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 08, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|-------|-----|-------|------|-----------------------------|------|------|-----|------|--------------------|------|------|------|--|
| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P | |
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm | |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 | |
| F4 (8893859) | 15.1 | <0.05 | 1.9 | 0.027 | 1.57 | 10.2 | 18.0 | 0.84 | 346 | 0.33 | 2.12 | 5.6 | 31.6 | 371 | |
| F5 (8893860) | 16.5 | <0.05 | 2.6 | 0.024 | 1.88 | 18.8 | 19.6 | 1.00 | 355 | 0.32 | 2.17 | 7.3 | 35.8 | 411 | |
| F6 (8893861) | 12.7 | <0.05 | 2.0 | 0.025 | 1.37 | 10.7 | 15.7 | 0.80 | 358 | 0.33 | 2.04 | 4.5 | 34.6 | 364 | |
| F7 (8893862) | 14.4 | <0.05 | 2.2 | 0.023 | 1.52 | 8.4 | 17.5 | 0.66 | 275 | 0.51 | 2.07 | 5.3 | 33.8 | 327 | |
| F8 (8893863) | 14.2 | <0.05 | 1.6 | 0.022 | 1.61 | 10.1 | 15.4 | 0.59 | 284 | 0.33 | 2.15 | 4.5 | 27.8 | 606 | |
| F9 (8893864) | 15.3 | <0.05 | 2.3 | 0.029 | 1.50 | 9.4 | 16.8 | 0.74 | 424 | 0.41 | 1.94 | 6.2 | 32.3 | 608 | |
| F10 (8893865) | 19.3 | <0.05 | 2.5 | 0.036 | 1.79 | 25.2 | 27.9 | 1.01 | 555 | 0.47 | 2.47 | 8.1 | 44.7 | 3250 | |
| F11 (8893866) | 16.0 | <0.05 | 2.5 | 0.030 | 1.44 | 12.9 | 21.2 | 0.72 | 344 | 0.53 | 1.83 | 6.4 | 40.1 | 977 | |
| F12 (8893867) | 16.2 | <0.05 | 3.4 | 0.033 | 1.34 | 9.3 | 26.0 | 0.70 | 390 | 0.66 | 1.77 | 7.1 | 38.1 | 936 | |
| F13 (8893868) | 15.9 | <0.05 | 3.1 | 0.032 | 1.40 | 10.6 | 21.5 | 0.81 | 438 | 0.50 | 1.85 | 7.8 | 39.6 | 865 | |
| F14 (8893869) | 14.9 | <0.05 | 2.1 | 0.026 | 1.32 | 13.4 | 17.4 | 0.64 | 376 | 0.48 | 1.85 | 6.2 | 31.5 | 637 | |
| F15 (8893870) | 14.7 | <0.05 | 2.6 | 0.030 | 1.37 | 8.5 | 18.9 | 0.62 | 309 | 0.47 | 1.87 | 5.6 | 29.7 | 660 | |
| F16 (8893871) | 14.6 | <0.05 | 2.1 | 0.026 | 1.41 | 18.7 | 15.7 | 0.69 | 330 | 0.48 | 2.00 | 5.1 | 29.5 | 467 | |
| F17 (8893872) | 14.5 | <0.05 | 4.4 | 0.025 | 1.37 | 12.7 | 12.3 | 0.68 | 467 | 0.37 | 1.97 | 6.5 | 30.5 | 723 | |
| F18 (8893873) | 14.5 | <0.05 | 2.4 | 0.022 | 1.66 | 9.2 | 12.5 | 0.56 | 270 | 0.35 | 2.11 | 4.3 | 26.8 | 312 | |
| F19 (8893874) | 12.7 | <0.05 | 3.0 | 0.029 | 1.28 | 10.2 | 14.8 | 0.61 | 305 | 0.52 | 1.72 | 5.7 | 26.7 | 528 | |
| F20 (8893875) | 17.0 | <0.05 | 2.5 | 0.030 | 1.77 | 13.3 | 19.5 | 0.83 | 374 | 0.56 | 2.45 | 6.4 | 35.4 | 391 | |
| F21 (8893876) | 13.9 | <0.05 | 1.9 | 0.020 | 1.54 | 7.0 | 11.8 | 0.58 | 330 | 0.38 | 2.25 | 4.6 | 22.4 | 370 | |
| F22 (8893877) | 13.4 | <0.05 | 2.0 | 0.030 | 1.30 | 9.8 | 14.4 | 0.71 | 373 | 0.56 | 1.94 | 5.0 | 30.4 | 558 | |
| F23 (8893878) | 16.1 | <0.05 | 3.1 | 0.030 | 1.55 | 11.5 | 15.2 | 0.61 | 294 | 0.63 | 2.08 | 6.5 | 26.7 | 250 | |
| F24 (8893879) | 15.4 | <0.05 | 2.8 | 0.034 | 1.35 | 11.0 | 18.4 | 0.53 | 346 | 0.81 | 1.63 | 7.3 | 26.6 | 266 | |
| F25 (8893880) | 16.9 | <0.05 | 3.0 | 0.033 | 1.37 | 12.1 | 22.2 | 0.57 | 301 | 0.73 | 1.71 | 7.4 | 27.0 | 366 | |
| F26 (8893881) | 19.2 | <0.05 | 3.7 | 0.036 | 1.83 | 19.3 | 20.8 | 0.89 | 367 | 0.77 | 2.37 | 8.4 | 42.5 | 277 | |
| F27 (8893882) | 14.5 | <0.05 | 2.7 | 0.028 | 1.48 | 10.3 | 14.7 | 0.68 | 313 | 0.56 | 2.12 | 5.5 | 29.4 | 263 | |
| F28 (8893883) | 14.7 | <0.05 | 3.2 | 0.034 | 1.36 | 11.2 | 18.4 | 0.65 | 322 | 0.79 | 1.74 | 6.6 | 31.0 | 387 | |
| F29 (8893884) | 15.1 | <0.05 | 2.7 | 0.026 | 1.42 | 10.3 | 14.9 | 0.53 | 262 | 0.70 | 1.90 | 6.3 | 23.6 | 350 | |
| F30 (8893885) | 15.7 | <0.05 | 2.5 | 0.048 | 1.29 | 11.5 | 24.5 | 0.74 | 397 | 1.24 | 1.49 | 6.6 | 32.7 | 1100 | |
| F31 (8893886) | 14.8 | <0.05 | 2.9 | 0.026 | 1.51 | 17.6 | 13.2 | 0.71 | 332 | 0.55 | 2.03 | 6.5 | 29.4 | 544 | |
| F32 (8893887) | 13.8 | <0.05 | 2.7 | 0.027 | 1.54 | 11.4 | 12.7 | 0.56 | 270 | 0.57 | 1.89 | 6.4 | 24.6 | 340 | |
| F33 (8893888) | 14.8 | <0.05 | 2.3 | 0.023 | 1.14 | 10.0 | 12.7 | 0.51 | 281 | 0.40 | 2.03 | 5.2 | 22.7 | 329 | |
| F34 (8893889) | 15.3 | <0.05 | 2.5 | 0.034 | 1.34 | 11.5 | 19.4 | 0.60 | 327 | 0.59 | 1.75 | 7.2 | 29.0 | 669 | |
| F35 (8893890) | 15.4 | <0.05 | 4.1 | 0.026 | 1.48 | 10.9 | 12.9 | 0.62 | 351 | 0.41 | 2.14 | 18.3 | 23.2 | 571 | |

Certified By:

Certificate of Analysis

AGAT WORK ORDER: 17T282583

PROJECT:

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 08, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|-------|-----|-------|------|-----------------------------|------|------|-----|------|--------------------|------|------|------|--|
| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P | |
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm | |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 | |
| F36 (8893891) | 14.6 | <0.05 | 2.2 | 0.027 | 1.54 | 13.5 | 17.4 | 0.72 | 330 | 0.47 | 1.85 | 5.3 | 33.9 | 538 | |
| F37 (8893892) | 17.1 | <0.05 | 2.3 | 0.033 | 1.49 | 11.6 | 22.8 | 0.65 | 317 | 0.71 | 1.61 | 6.8 | 34.8 | 608 | |
| F38 (8893893) | 14.1 | <0.05 | 3.1 | 0.025 | 1.55 | 20.2 | 14.4 | 0.73 | 357 | 1.45 | 1.96 | 5.6 | 36.2 | 455 | |
| F39 (8893894) | 14.8 | <0.05 | 2.6 | 0.030 | 1.55 | 10.2 | 17.7 | 0.71 | 332 | 0.51 | 1.84 | 5.9 | 33.9 | 524 | |
| F40 (8893895) | 13.9 | <0.05 | 2.8 | 0.025 | 1.45 | 11.8 | 13.5 | 0.64 | 349 | 0.49 | 1.88 | 5.3 | 27.6 | 517 | |
| F41 (8893896) | 12.8 | <0.05 | 0.6 | 0.029 | 1.12 | 10.9 | 18.1 | 0.57 | 244 | 0.62 | 1.17 | 2.3 | 31.0 | 813 | |
| F42 (8893897) | 16.3 | <0.05 | 2.8 | 0.036 | 1.46 | 14.4 | 24.0 | 0.73 | 352 | 0.80 | 1.63 | 7.2 | 43.6 | 892 | |
| F43 (8893898) | 15.5 | <0.05 | 2.6 | 0.042 | 1.28 | 13.9 | 23.7 | 0.69 | 382 | 0.97 | 1.46 | 7.2 | 33.1 | 2070 | |
| F44 (8893899) | 15.3 | <0.05 | 2.9 | 0.035 | 1.68 | 14.7 | 17.3 | 0.67 | 425 | 0.71 | 1.83 | 6.7 | 32.5 | 1480 | |
| F45 (8893900) | 15.0 | <0.05 | 2.0 | 0.030 | 1.33 | 11.9 | 18.0 | 0.63 | 371 | 0.72 | 1.75 | 5.8 | 27.1 | 965 | |
| F46 (8893901) | 17.3 | <0.05 | 2.5 | 0.036 | 1.64 | 13.0 | 24.6 | 0.76 | 471 | 0.66 | 1.77 | 7.9 | 34.1 | 2000 | |
| G1 (8893902) | 14.0 | <0.05 | 1.6 | 0.023 | 1.51 | 13.2 | 12.5 | 0.80 | 397 | 0.25 | 2.15 | 3.9 | 28.7 | 390 | |
| G2 (8893903) | 16.4 | <0.05 | 2.3 | 0.028 | 1.49 | 12.8 | 14.5 | 0.66 | 390 | 0.35 | 2.01 | 5.8 | 27.1 | 608 | |
| G3 (8893904) | 13.8 | <0.05 | 1.5 | 0.020 | 1.47 | 9.0 | 15.3 | 0.68 | 352 | 0.28 | 2.13 | 4.2 | 32.6 | 666 | |
| G4 (8893905) | 14.0 | <0.05 | 1.7 | 0.021 | 1.44 | 11.2 | 12.6 | 0.66 | 343 | 0.31 | 2.19 | 4.1 | 26.7 | 521 | |
| G5 (8893906) | 14.5 | <0.05 | 2.3 | 0.026 | 1.50 | 12.5 | 14.1 | 0.67 | 378 | 0.34 | 2.11 | 5.4 | 26.9 | 633 | |
| G6 (8893907) | 17.5 | <0.05 | 2.4 | 0.025 | 1.50 | 8.8 | 14.8 | 0.65 | 382 | 0.36 | 2.08 | 19.4 | 23.5 | 1210 | |
| G7 (8893908) | 14.3 | <0.05 | 2.1 | 0.023 | 1.52 | 12.3 | 14.8 | 0.57 | 286 | 0.37 | 2.00 | 4.7 | 27.8 | 732 | |
| G8 (8893909) | 14.7 | <0.05 | 2.2 | 0.027 | 1.56 | 11.2 | 16.3 | 0.55 | 296 | 0.46 | 1.94 | 4.9 | 25.3 | 422 | |
| G9 (8893910) | 13.8 | <0.05 | 1.6 | 0.023 | 1.47 | 10.0 | 14.6 | 0.62 | 300 | 0.35 | 2.02 | 4.7 | 29.1 | 468 | |
| G10 (8893911) | 16.1 | <0.05 | 2.3 | 0.028 | 1.34 | 12.0 | 15.3 | 0.71 | 473 | 0.46 | 1.93 | 5.6 | 28.0 | 1150 | |
| G11 (8893912) | 15.4 | <0.05 | 1.9 | 0.025 | 1.47 | 18.8 | 14.9 | 0.64 | 372 | 0.41 | 2.10 | 4.4 | 29.8 | 732 | |
| G12 (8893913) | 14.2 | <0.05 | 2.0 | 0.022 | 1.57 | 14.3 | 11.3 | 0.64 | 505 | 0.28 | 2.19 | 4.6 | 22.1 | 235 | |
| G13 (8893914) | 15.8 | <0.05 | 2.1 | 0.023 | 1.51 | 12.0 | 12.7 | 0.47 | 277 | 0.57 | 2.20 | 5.2 | 15.8 | 204 | |
| G14 (8893915) | 13.7 | <0.05 | 1.5 | 0.021 | 1.51 | 8.7 | 11.5 | 0.58 | 291 | 0.34 | 2.14 | 3.6 | 25.2 | 411 | |
| G15 (8893916) | 14.9 | <0.05 | 2.5 | 0.030 | 1.49 | 23.5 | 22.2 | 0.69 | 427 | 0.56 | 1.92 | 7.1 | 34.5 | 373 | |
| G16 (8893917) | 14.5 | <0.05 | 2.1 | 0.025 | 1.60 | 9.4 | 12.8 | 0.67 | 329 | 0.40 | 2.13 | 4.5 | 30.1 | 359 | |
| G17 (8893918) | 15.3 | <0.05 | 2.6 | 0.027 | 1.53 | 9.7 | 20.7 | 0.59 | 275 | 0.62 | 1.88 | 6.2 | 31.4 | 282 | |
| G18 (8893919) | 17.3 | <0.05 | 2.8 | 0.030 | 1.56 | 10.3 | 18.7 | 0.75 | 351 | 0.51 | 2.00 | 7.4 | 31.2 | 239 | |
| G19 (8893920) | 14.2 | <0.05 | 2.2 | 0.026 | 1.46 | 11.4 | 14.5 | 0.72 | 344 | 0.44 | 1.91 | 4.3 | 30.5 | 346 | |
| G20 (8893921) | 16.1 | <0.05 | 3.0 | 0.030 | 1.52 | 13.3 | 17.4 | 0.64 | 329 | 0.64 | 1.85 | 7.3 | 27.2 | 349 | |
| G21 (8893922) | 19.0 | <0.05 | 2.2 | 0.022 | 1.38 | 15.7 | 12.5 | 0.47 | 273 | 0.94 | 2.09 | 5.6 | 15.8 | 209 | |

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 17T282583

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 08, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|-------|-----|-------|------|-----------------------------|------|------|-----|------|--------------------|-----|------|-----|--|
| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P | |
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm | |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 | |
| G22 (8893923) | 14.8 | <0.05 | 2.2 | 0.029 | 1.40 | 18.3 | 14.8 | 0.59 | 314 | 0.66 | 1.92 | 6.1 | 34.3 | 377 | |
| G23 (8893924) | 13.9 | <0.05 | 1.9 | 0.023 | 1.42 | 10.5 | 11.4 | 0.66 | 322 | 0.36 | 2.17 | 4.7 | 24.3 | 349 | |
| G24 (8893925) | 18.0 | <0.05 | 2.8 | 0.038 | 1.12 | 9.9 | 21.5 | 0.45 | 259 | 1.16 | 1.37 | 6.9 | 18.4 | 413 | |
| G25 (8893926) | 15.5 | <0.05 | 2.5 | 0.021 | 1.55 | 12.9 | 11.5 | 0.66 | 283 | 0.31 | 2.27 | 4.6 | 24.0 | 149 | |
| G26 (8893927) | 14.8 | <0.05 | 2.2 | 0.025 | 1.46 | 12.1 | 11.3 | 0.65 | 305 | 0.43 | 2.11 | 4.6 | 26.4 | 379 | |
| G27 (8893928) | 14.5 | <0.05 | 1.9 | 0.026 | 1.49 | 10.2 | 13.2 | 0.58 | 295 | 0.41 | 2.18 | 4.1 | 24.9 | 467 | |
| G28 (8893929) | 16.0 | <0.05 | 1.9 | 0.025 | 1.51 | 8.7 | 14.0 | 0.64 | 355 | 0.49 | 2.14 | 5.2 | 27.4 | 652 | |
| G29 (8893930) | 15.3 | <0.05 | 3.0 | 0.031 | 1.50 | 13.6 | 17.8 | 0.77 | 380 | 0.51 | 1.87 | 6.8 | 36.6 | 525 | |

Certified By:

Certificate of Analysis

AGAT WORK ORDER: 17T282583

PROJECT:

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 08, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|------|--------|------|------|-----------------------------|------|-----|-----|------|--------------------|------|------|------|--|
| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl | |
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | |
| RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | 0.01 | |
| F4 (8893859) | 11.6 | 60.6 | <0.002 | 0.03 | 0.11 | 8.2 | 0.5 | 1.2 | 374 | 0.39 | 0.02 | 2.4 | 0.28 | 0.26 | |
| F5 (8893860) | 13.3 | 63.3 | <0.002 | 0.03 | 0.15 | 9.6 | 0.8 | 1.1 | 285 | 0.46 | 0.04 | 5.6 | 0.31 | 0.35 | |
| F6 (8893861) | 10.1 | 45.2 | <0.002 | 0.03 | 0.11 | 8.9 | 0.6 | 0.9 | 279 | 0.30 | 0.07 | 2.0 | 0.25 | 0.22 | |
| F7 (8893862) | 11.6 | 53.0 | <0.002 | 0.03 | 0.13 | 7.2 | 0.6 | 1.0 | 280 | 0.37 | <0.01 | 2.3 | 0.24 | 0.25 | |
| F8 (8893863) | 11.8 | 54.0 | <0.002 | 0.03 | 0.18 | 6.9 | 0.8 | 1.3 | 273 | 0.32 | 0.02 | 3.2 | 0.22 | 0.28 | |
| F9 (8893864) | 11.5 | 52.4 | <0.002 | 0.04 | 0.14 | 9.4 | 0.8 | 1.1 | 259 | 0.42 | 0.01 | 3.6 | 0.32 | 0.26 | |
| F10 (8893865) | 14.9 | 63.7 | <0.002 | 0.04 | 0.21 | 11.3 | 0.7 | 1.5 | 336 | 0.56 | 0.02 | 13.7 | 0.38 | 0.30 | |
| F11 (8893866) | 11.8 | 49.5 | <0.002 | 0.05 | 0.20 | 9.6 | 1.0 | 1.4 | 240 | 0.47 | 0.04 | 6.9 | 0.31 | 0.26 | |
| F12 (8893867) | 12.0 | 46.0 | <0.002 | 0.04 | 0.28 | 9.2 | 1.1 | 1.3 | 232 | 0.54 | 0.06 | 4.0 | 0.33 | 0.26 | |
| F13 (8893868) | 11.1 | 49.0 | <0.002 | 0.05 | 0.28 | 9.2 | 0.8 | 1.5 | 248 | 0.57 | 0.07 | 5.5 | 0.30 | 0.27 | |
| F14 (8893869) | 11.0 | 46.3 | <0.002 | 0.04 | 0.14 | 8.1 | 0.9 | 1.1 | 245 | 0.44 | 0.01 | 12.2 | 0.30 | 0.24 | |
| F15 (8893870) | 10.9 | 47.1 | <0.002 | 0.04 | 0.14 | 8.3 | 0.8 | 1.0 | 248 | 0.42 | 0.01 | 2.7 | 0.26 | 0.24 | |
| F16 (8893871) | 11.5 | 48.6 | <0.002 | 0.03 | 0.15 | 8.1 | 0.7 | 1.0 | 273 | 0.36 | <0.01 | 9.5 | 0.25 | 0.24 | |
| F17 (8893872) | 12.1 | 45.0 | <0.002 | 0.04 | 0.11 | 9.5 | 0.9 | 1.2 | 275 | 0.47 | 0.02 | 6.3 | 0.35 | 0.22 | |
| F18 (8893873) | 11.2 | 49.3 | <0.002 | 0.03 | 0.14 | 7.1 | 0.6 | 1.3 | 281 | 0.32 | 0.03 | 3.0 | 0.22 | 0.26 | |
| F19 (8893874) | 10.4 | 39.3 | <0.002 | 0.04 | 0.18 | 7.7 | 0.8 | 1.2 | 227 | 0.37 | 0.04 | 3.2 | 0.28 | 0.21 | |
| F20 (8893875) | 12.7 | 57.0 | <0.002 | 0.04 | 0.16 | 9.0 | 0.9 | 1.6 | 317 | 0.45 | 0.02 | 4.2 | 0.29 | 0.37 | |
| F21 (8893876) | 10.8 | 47.3 | <0.002 | 0.03 | 0.10 | 7.3 | <0.5 | 0.9 | 292 | 0.33 | <0.01 | 1.8 | 0.23 | 0.24 | |
| F22 (8893877) | 11.2 | 40.8 | <0.002 | 0.05 | 0.18 | 8.8 | 0.9 | 1.8 | 259 | 0.37 | 0.03 | 3.4 | 0.28 | 0.22 | |
| F23 (8893878) | 12.0 | 47.3 | <0.002 | 0.04 | 0.18 | 8.5 | 0.9 | 1.2 | 264 | 0.43 | 0.03 | 3.3 | 0.30 | 0.28 | |
| F24 (8893879) | 13.5 | 41.7 | <0.002 | 0.04 | 0.32 | 7.3 | 0.8 | 9.2 | 206 | 0.48 | 0.20 | 3.3 | 0.30 | 0.26 | |
| F25 (8893880) | 12.3 | 46.8 | <0.002 | 0.05 | 0.22 | 9.1 | 0.8 | 1.9 | 206 | 0.57 | 0.02 | 4.8 | 0.34 | 0.26 | |
| F26 (8893881) | 15.4 | 55.5 | <0.002 | 0.04 | 0.26 | 9.8 | 0.9 | 3.9 | 304 | 0.62 | 0.02 | 8.2 | 0.35 | 0.35 | |
| F27 (8893882) | 12.0 | 46.2 | <0.002 | 0.05 | 0.18 | 8.2 | 0.6 | 1.1 | 269 | 0.42 | 0.02 | 3.5 | 0.26 | 0.25 | |
| F28 (8893883) | 12.8 | 45.9 | <0.002 | 0.04 | 0.26 | 8.9 | 0.8 | 1.4 | 209 | 0.51 | <0.01 | 4.1 | 0.31 | 0.27 | |
| F29 (8893884) | 11.7 | 42.0 | <0.002 | 0.04 | 0.19 | 7.2 | 0.9 | 1.1 | 253 | 0.41 | 0.01 | 3.3 | 0.26 | 0.27 | |
| F30 (8893885) | 12.1 | 41.6 | <0.002 | 0.07 | 0.41 | 10.7 | 1.3 | 1.3 | 161 | 0.54 | 0.04 | 4.4 | 0.33 | 0.26 | |
| F31 (8893886) | 11.7 | 47.5 | <0.002 | 0.04 | 0.15 | 9.2 | 0.6 | 1.0 | 260 | 0.47 | <0.01 | 5.0 | 0.27 | 0.25 | |
| F32 (8893887) | 11.6 | 45.0 | 0.002 | 0.04 | 0.16 | 7.7 | 0.8 | 1.3 | 245 | 0.47 | 0.02 | 3.8 | 0.26 | 0.24 | |
| F33 (8893888) | 11.3 | 26.5 | <0.002 | 0.03 | 0.15 | 7.2 | 0.7 | 1.2 | 270 | 0.41 | 0.03 | 4.1 | 0.24 | 0.26 | |
| F34 (8893889) | 10.4 | 42.4 | <0.002 | 0.04 | 0.17 | 8.4 | 0.9 | 1.2 | 222 | 0.62 | 0.04 | 3.9 | 0.31 | 0.24 | |
| F35 (8893890) | 11.9 | 46.9 | <0.002 | 0.04 | 0.23 | 8.4 | 0.8 | 1.3 | 284 | 0.73 | 0.04 | 4.6 | 0.30 | 0.28 | |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282583

PROJECT:

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 08, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|------|--------|------|------|-----------------------------|------|------|-----|-------|--------------------|-----|------|------|--|
| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl | |
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | |
| RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | 0.01 | |
| F36 (8893891) | 11.4 | 49.3 | <0.002 | 0.04 | 0.18 | 8.1 | 0.9 | 1.1 | 247 | 0.31 | 0.05 | 5.7 | 0.24 | 0.28 | |
| F37 (8893892) | 11.8 | 48.9 | <0.002 | 0.04 | 0.17 | 8.4 | 0.9 | 1.4 | 211 | 0.39 | 0.01 | 3.9 | 0.31 | 0.27 | |
| F38 (8893893) | 11.6 | 45.4 | <0.002 | 0.04 | 0.13 | 8.3 | 0.7 | 30.9 | 259 | 0.40 | 0.02 | 9.2 | 0.29 | 0.25 | |
| F39 (8893894) | 10.8 | 45.7 | <0.002 | 0.03 | 0.16 | 9.0 | 0.8 | 1.0 | 245 | 0.32 | 0.01 | 3.6 | 0.29 | 0.26 | |
| F40 (8893895) | 11.1 | 46.6 | <0.002 | 0.03 | 0.14 | 8.6 | 0.9 | 1.3 | 251 | 0.30 | 0.01 | 4.3 | 0.28 | 0.25 | |
| F41 (8893896) | 9.5 | 35.8 | <0.002 | 0.04 | 0.16 | 7.7 | 0.8 | 0.9 | 157 | <0.05 | 0.01 | 3.2 | 0.18 | 0.21 | |
| F42 (8893897) | 13.2 | 44.3 | <0.002 | 0.06 | 0.36 | 9.1 | 0.9 | 2.6 | 210 | 0.43 | 0.03 | 4.7 | 0.34 | 0.26 | |
| F43 (8893898) | 13.1 | 40.6 | <0.002 | 0.07 | 0.35 | 9.1 | 1.4 | 1.6 | 192 | 0.52 | 0.04 | 4.8 | 0.38 | 0.23 | |
| F44 (8893899) | 14.9 | 50.1 | <0.002 | 0.04 | 0.31 | 8.3 | 0.7 | 2.6 | 237 | 0.38 | 0.03 | 5.4 | 0.30 | 0.28 | |
| F45 (8893900) | 12.6 | 42.2 | <0.002 | 0.03 | 0.22 | 7.7 | 0.6 | 1.1 | 233 | 0.33 | 0.03 | 4.0 | 0.30 | 0.23 | |
| F46 (8893901) | 13.6 | 50.7 | <0.002 | 0.04 | 0.34 | 8.5 | 0.9 | 1.6 | 229 | 0.42 | 0.08 | 3.9 | 0.32 | 0.27 | |
| G1 (8893902) | 10.9 | 46.3 | <0.002 | 0.03 | 0.10 | 8.6 | <0.5 | 1.0 | 289 | 0.21 | <0.01 | 5.8 | 0.24 | 0.25 | |
| G2 (8893903) | 11.8 | 49.3 | <0.002 | 0.03 | 0.37 | 8.1 | 0.5 | 1.1 | 269 | 0.33 | 0.03 | 5.3 | 0.30 | 0.26 | |
| G3 (8893904) | 11.8 | 44.3 | <0.002 | 0.03 | 0.17 | 7.5 | 0.5 | 9.3 | 278 | 0.26 | 0.01 | 3.7 | 0.22 | 0.24 | |
| G4 (8893905) | 11.0 | 46.0 | <0.002 | 0.03 | 0.12 | 7.7 | 0.6 | 1.1 | 286 | 0.25 | <0.01 | 3.6 | 0.23 | 0.26 | |
| G5 (8893906) | 11.4 | 46.1 | <0.002 | 0.03 | 0.10 | 8.5 | 0.6 | 1.0 | 276 | 0.32 | <0.01 | 4.8 | 0.27 | 0.26 | |
| G6 (8893907) | 13.0 | 48.6 | <0.002 | 0.04 | 0.14 | 8.7 | 0.6 | 1.0 | 265 | 2.76 | 0.02 | 2.8 | 0.31 | 0.26 | |
| G7 (8893908) | 11.6 | 46.1 | <0.002 | 0.04 | 0.15 | 7.2 | 0.7 | 0.9 | 266 | 0.26 | <0.01 | 4.3 | 0.21 | 0.26 | |
| G8 (8893909) | 12.2 | 44.9 | <0.002 | 0.03 | 0.37 | 7.2 | 0.9 | 1.0 | 251 | 0.31 | 0.03 | 5.6 | 0.24 | 0.28 | |
| G9 (8893910) | 10.9 | 50.0 | <0.002 | 0.04 | 0.18 | 7.4 | 0.8 | 0.8 | 260 | 0.28 | 0.01 | 3.9 | 0.21 | 0.25 | |
| G10 (8893911) | 10.8 | 47.5 | <0.002 | 0.04 | 0.14 | 8.9 | 0.9 | 1.1 | 258 | 0.32 | <0.01 | 4.6 | 0.30 | 0.24 | |
| G11 (8893912) | 11.9 | 49.9 | <0.002 | 0.04 | 0.15 | 7.8 | 0.9 | 0.9 | 266 | 0.25 | 0.02 | 9.6 | 0.23 | 0.25 | |
| G12 (8893913) | 10.5 | 52.0 | <0.002 | 0.03 | 0.10 | 7.4 | 0.5 | 0.9 | 291 | 0.23 | <0.01 | 5.5 | 0.23 | 0.26 | |
| G13 (8893914) | 10.9 | 53.7 | <0.002 | 0.03 | 0.13 | 7.2 | <0.5 | 1.0 | 278 | 0.27 | <0.01 | 3.4 | 0.28 | 0.26 | |
| G14 (8893915) | 10.7 | 49.9 | <0.002 | 0.03 | 0.10 | 6.9 | 0.7 | 0.7 | 273 | 0.19 | <0.01 | 2.4 | 0.19 | 0.25 | |
| G15 (8893916) | 13.3 | 49.0 | <0.002 | 0.04 | 0.18 | 9.6 | 1.0 | 4.2 | 255 | 0.30 | 0.02 | 7.4 | 0.27 | 0.28 | |
| G16 (8893917) | 11.8 | 50.5 | <0.002 | 0.03 | 0.14 | 8.0 | 0.8 | 1.0 | 278 | 0.26 | <0.01 | 3.2 | 0.23 | 0.26 | |
| G17 (8893918) | 11.2 | 49.0 | <0.002 | 0.03 | 0.13 | 7.9 | 0.5 | 1.1 | 240 | 0.32 | 0.02 | 3.2 | 0.28 | 0.25 | |
| G18 (8893919) | 12.5 | 54.4 | <0.002 | 0.04 | 0.16 | 9.6 | 0.6 | 1.2 | 248 | 0.35 | 0.01 | 3.9 | 0.31 | 0.29 | |
| G19 (8893920) | 12.6 | 48.5 | <0.002 | 0.03 | 0.18 | 8.6 | 0.8 | 0.9 | 231 | 0.26 | 0.03 | 4.3 | 0.25 | 0.27 | |
| G20 (8893921) | 11.3 | 51.0 | <0.002 | 0.03 | 0.18 | 8.8 | 0.9 | 1.3 | 242 | 0.42 | 0.03 | 4.8 | 0.32 | 0.28 | |
| G21 (8893922) | 11.6 | 46.8 | <0.002 | 0.04 | 0.15 | 7.5 | 0.9 | 1.2 | 262 | 0.32 | 0.03 | 3.8 | 0.30 | 0.29 | |

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 17T282583

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 08, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|------|--------|------|------|-----------------------------|-----|-----|-----|------|--------------------|-----|------|------|--|
| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl | |
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | |
| RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | 0.01 | |
| G22 (8893923) | 10.4 | 48.5 | <0.002 | 0.04 | 0.15 | 9.0 | 1.0 | 1.1 | 253 | 0.33 | 0.01 | 4.2 | 0.24 | 0.28 | |
| G23 (8893924) | 11.0 | 47.2 | <0.002 | 0.04 | 0.11 | 8.0 | 0.9 | 1.1 | 287 | 0.28 | <0.01 | 3.6 | 0.24 | 0.25 | |
| G24 (8893925) | 12.8 | 39.9 | <0.002 | 0.05 | 0.27 | 7.8 | 1.0 | 1.4 | 165 | 0.41 | 0.04 | 4.0 | 0.34 | 0.26 | |
| G25 (8893926) | 11.7 | 53.1 | <0.002 | 0.03 | 0.11 | 7.6 | 0.9 | 1.0 | 292 | 0.25 | <0.01 | 3.4 | 0.23 | 0.30 | |
| G26 (8893927) | 11.4 | 50.6 | <0.002 | 0.03 | 0.11 | 8.0 | 0.7 | 1.0 | 276 | 0.24 | 0.01 | 4.3 | 0.23 | 0.25 | |
| G27 (8893928) | 10.7 | 49.0 | <0.002 | 0.04 | 0.13 | 7.2 | 0.6 | 1.0 | 284 | 0.22 | 0.01 | 3.1 | 0.21 | 0.24 | |
| G28 (8893929) | 10.8 | 51.4 | <0.002 | 0.03 | 0.16 | 8.0 | 0.7 | 1.1 | 283 | 0.30 | 0.01 | 2.1 | 0.27 | 0.26 | |
| G29 (8893930) | 13.0 | 53.5 | <0.002 | 0.04 | 0.18 | 9.7 | 1.1 | 1.1 | 224 | 0.37 | 0.03 | 5.5 | 0.30 | 0.26 | |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282583

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | DATE REPORTED: Jan 08, 2018 | | | SAMPLE TYPE: Other |
|----------------------------|-----------------------------|------|-----|-----------------------------|------|------|--------------------|
| Analyte: | U | V | W | Y | Zn | Zr | |
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm | |
| RDL: | 0.005 | 0.5 | 0.1 | 0.1 | 0.5 | 0.5 | |
| Sample ID (AGAT ID) | | | | | | | |
| F4 (8893859) | 0.609 | 55.8 | 0.3 | 9.5 | 35.1 | 82.5 | |
| F5 (8893860) | 0.811 | 64.4 | 0.3 | 11.5 | 37.7 | 110 | |
| F6 (8893861) | 0.561 | 59.9 | 0.2 | 10.6 | 27.1 | 89.0 | |
| F7 (8893862) | 0.627 | 57.7 | 0.3 | 8.5 | 24.9 | 97.0 | |
| F8 (8893863) | 0.599 | 54.0 | 0.3 | 7.2 | 40.6 | 65.9 | |
| F9 (8893864) | 0.757 | 75.1 | 0.3 | 9.4 | 44.7 | 97.7 | |
| F10 (8893865) | 1.15 | 90.9 | 0.4 | 13.2 | 63.2 | 110 | |
| F11 (8893866) | 0.813 | 76.1 | 0.4 | 9.5 | 65.5 | 106 | |
| F12 (8893867) | 0.905 | 86.4 | 0.5 | 9.0 | 85.2 | 136 | |
| F13 (8893868) | 1.07 | 74.5 | 0.5 | 9.2 | 54.6 | 125 | |
| F14 (8893869) | 1.06 | 70.8 | 0.5 | 8.8 | 53.5 | 89.2 | |
| F15 (8893870) | 0.772 | 66.3 | 0.3 | 8.1 | 40.2 | 107 | |
| F16 (8893871) | 1.15 | 68.2 | 0.3 | 10.1 | 27.9 | 98.3 | |
| F17 (8893872) | 0.990 | 85.7 | 0.3 | 11.7 | 34.4 | 198 | |
| F18 (8893873) | 0.614 | 51.2 | 0.4 | 7.3 | 29.6 | 99.5 | |
| F19 (8893874) | 0.807 | 63.3 | 0.5 | 7.8 | 35.8 | 126 | |
| F20 (8893875) | 0.950 | 63.2 | 0.6 | 10.9 | 36.0 | 111 | |
| F21 (8893876) | 0.534 | 56.4 | 0.2 | 7.8 | 31.6 | 75.8 | |
| F22 (8893877) | 0.744 | 72.5 | 0.4 | 8.6 | 35.1 | 88.2 | |
| F23 (8893878) | 0.963 | 67.1 | 0.4 | 9.9 | 30.6 | 140 | |
| F24 (8893879) | 0.949 | 67.8 | 5.3 | 8.3 | 55.8 | 128 | |
| F25 (8893880) | 1.06 | 83.2 | 0.5 | 9.6 | 58.6 | 132 | |
| F26 (8893881) | 1.22 | 77.7 | 0.7 | 11.5 | 52.1 | 158 | |
| F27 (8893882) | 0.800 | 61.6 | 0.4 | 8.9 | 29.3 | 113 | |
| F28 (8893883) | 1.09 | 71.8 | 0.6 | 8.9 | 43.4 | 128 | |
| F29 (8893884) | 19.3 | 55.6 | 0.6 | 7.3 | 76.9 | 115 | |
| F30 (8893885) | 1.35 | 95.7 | 0.6 | 10.1 | 49.4 | 105 | |
| F31 (8893886) | 1.03 | 62.1 | 0.4 | 12.9 | 36.8 | 136 | |
| F32 (8893887) | 0.828 | 53.7 | 0.4 | 8.1 | 51.2 | 109 | |
| F33 (8893888) | 0.708 | 55.3 | 0.3 | 7.2 | 27.3 | 97.9 | |
| F34 (8893889) | 0.960 | 69.3 | 0.5 | 8.2 | 46.7 | 102 | |
| F35 (8893890) | 0.937 | 66.9 | 0.5 | 9.7 | 38.9 | 158 | |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282583

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 08, 2018

SAMPLE TYPE: Other

| Analyte: | U | V | W | Y | Zn | Zr |
|---------------------|-------|------|------|------|------|------|
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm |
| Sample ID (AGAT ID) | RDL: | | | | | |
| F36 (8893891) | 0.829 | 58.1 | 0.4 | 7.4 | 43.6 | 78.7 |
| F37 (8893892) | 0.852 | 73.9 | 0.4 | 8.2 | 58.2 | 96.6 |
| F38 (8893893) | 0.962 | 68.4 | 0.3 | 8.8 | 36.7 | 131 |
| F39 (8893894) | 0.866 | 70.2 | 0.3 | 8.2 | 41.8 | 107 |
| F40 (8893895) | 0.789 | 68.5 | 0.3 | 8.2 | 36.6 | 124 |
| F41 (8893896) | 0.643 | 62.6 | <0.1 | 6.9 | 57.6 | 26.7 |
| F42 (8893897) | 0.970 | 84.8 | 0.7 | 9.1 | 108 | 108 |
| F43 (8893898) | 1.04 | 88.4 | 0.6 | 8.5 | 83.8 | 102 |
| F44 (8893899) | 0.886 | 64.1 | 0.3 | 8.4 | 91.7 | 123 |
| F45 (8893900) | 0.734 | 81.5 | 0.4 | 7.5 | 70.5 | 82.8 |
| F46 (8893901) | 0.895 | 73.4 | 0.4 | 7.5 | 147 | 98.5 |
| G1 (8893902) | 0.632 | 69.8 | 0.1 | 7.9 | 28.7 | 61.2 |
| G2 (8893903) | 0.759 | 74.6 | 0.3 | 8.1 | 47.5 | 95.5 |
| G3 (8893904) | 0.644 | 58.8 | 0.2 | 7.0 | 53.2 | 61.9 |
| G4 (8893905) | 0.579 | 60.2 | 0.2 | 8.1 | 27.2 | 67.3 |
| G5 (8893906) | 0.898 | 68.7 | 0.2 | 9.2 | 35.9 | 87.2 |
| G6 (8893907) | 0.681 | 78.9 | 0.3 | 8.7 | 39.3 | 94.1 |
| G7 (8893908) | 0.672 | 54.2 | 0.3 | 6.9 | 44.1 | 79.4 |
| G8 (8893909) | 0.877 | 58.9 | 0.5 | 7.1 | 36.4 | 80.2 |
| G9 (8893910) | 0.624 | 52.5 | 0.2 | 7.0 | 34.1 | 63.7 |
| G10 (8893911) | 0.713 | 79.0 | 0.3 | 9.6 | 40.7 | 97.2 |
| G11 (8893912) | 0.752 | 58.6 | 0.2 | 8.9 | 63.1 | 85.8 |
| G12 (8893913) | 0.658 | 51.8 | 0.2 | 8.9 | 31.9 | 84.2 |
| G13 (8893914) | 0.727 | 59.3 | 0.2 | 7.5 | 31.0 | 95.8 |
| G14 (8893915) | 0.519 | 49.1 | 0.2 | 7.2 | 22.2 | 63.4 |
| G15 (8893916) | 1.70 | 69.2 | 0.3 | 15.7 | 32.2 | 111 |
| G16 (8893917) | 0.696 | 58.6 | 0.2 | 8.6 | 28.0 | 91.3 |
| G17 (8893918) | 0.743 | 68.3 | 0.3 | 7.7 | 39.8 | 113 |
| G18 (8893919) | 0.917 | 89.2 | 0.3 | 9.1 | 39.5 | 123 |
| G19 (8893920) | 0.945 | 69.0 | 0.3 | 9.7 | 28.2 | 89.7 |
| G20 (8893921) | 0.961 | 68.5 | 0.4 | 9.7 | 59.3 | 132 |
| G21 (8893922) | 0.926 | 84.2 | 0.3 | 10.0 | 21.7 | 97.3 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282583

PROJECT:

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 CANADA L4Z 1N9
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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | DATE REPORTED: Jan 08, 2018 | | SAMPLE TYPE: Other |
|----------------------------|-----------------------------|-------|------|-----|-----------------------------|------|--------------------|
| Analyte: | U | V | W | Y | Zn | Zr | |
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm | |
| Sample ID (AGAT ID) | RDL: | 0.005 | 0.5 | 0.1 | 0.1 | 0.5 | 0.5 |
| G22 (8893923) | | 1.06 | 61.6 | 0.4 | 12.1 | 32.6 | 92.2 |
| G23 (8893924) | | 0.677 | 58.3 | 0.2 | 8.9 | 23.3 | 77.1 |
| G24 (8893925) | | 1.19 | 97.0 | 0.5 | 7.8 | 41.3 | 120 |
| G25 (8893926) | | 0.672 | 50.8 | 0.2 | 9.2 | 23.0 | 112 |
| G26 (8893927) | | 0.860 | 58.5 | 0.2 | 10.2 | 23.1 | 100 |
| G27 (8893928) | | 0.609 | 53.8 | 0.3 | 8.4 | 27.8 | 82.0 |
| G28 (8893929) | | 0.617 | 65.1 | 0.2 | 8.8 | 40.6 | 81.5 |
| G29 (8893930) | | 1.16 | 75.6 | 0.4 | 10.9 | 36.0 | 137 |

Comments: RDL - Reported Detection Limit
 8893859-8893930 As, Sb values may be low due to digestion losses.

Certified By:



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| Parameter | REPLICATE #1 | | | | REPLICATE #2 | | | | REPLICATE #3 | | | | REPLICATE #4 | | | |
|-----------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|
| | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD |
| Ag | 8893859 | 0.17 | 0.12 | | 8893878 | 0.252 | 0.298 | 16.7% | 8893898 | 0.301 | 0.361 | 18.1% | 8893919 | 0.13 | 0.23 | |
| Al | 8893859 | 6.20 | 6.17 | 0.5% | 8893878 | 6.48 | 6.13 | 5.6% | 8893898 | 7.40 | 7.27 | 1.8% | 8893919 | 6.38 | 6.29 | 1.4% |
| As | 8893859 | 1.7 | 1.2 | | 8893878 | 3.22 | 3.98 | 21.1% | 8893898 | 5.49 | 5.58 | 1.6% | 8893919 | 3.8 | 4.6 | 19.0% |
| Ba | 8893859 | 478 | 490 | 2.5% | 8893878 | 499 | 465 | 7.1% | 8893898 | 408 | 407 | 0.2% | 8893919 | 478 | 468 | 2.1% |
| Be | 8893859 | 1.12 | 1.17 | 4.4% | 8893878 | 1.22 | 1.06 | 14.0% | 8893898 | 1.26 | 1.12 | 11.8% | 8893919 | 1.15 | 1.33 | 14.5% |
| Bi | 8893859 | 0.10 | 0.10 | 0.0% | 8893878 | 0.126 | 0.113 | 10.9% | 8893898 | 0.21 | 0.22 | 4.7% | 8893919 | 0.16 | 0.16 | 0.0% |
| Ca | 8893859 | 1.64 | 1.60 | 2.5% | 8893878 | 1.44 | 1.38 | 4.3% | 8893898 | 1.19 | 1.14 | 4.3% | 8893919 | 1.42 | 1.39 | 2.1% |
| Cd | 8893859 | 0.04 | 0.04 | 0.0% | 8893878 | 0.06 | 0.05 | 18.2% | 8893898 | 0.26 | 0.27 | 3.8% | 8893919 | 0.06 | 0.07 | 15.4% |
| Ce | 8893859 | 20.6 | 21.2 | 2.9% | 8893878 | 25.7 | 27.2 | 5.7% | 8893898 | 27.1 | 28.9 | 6.4% | 8893919 | 26.1 | 27.2 | 4.1% |
| Co | 8893859 | 9.79 | 10.5 | 7.0% | 8893878 | 10.2 | 9.00 | 12.5% | 8893898 | 14.4 | 13.6 | 5.7% | 8893919 | 11.8 | 11.4 | 3.4% |
| Cr | 8893859 | 48.2 | 44.4 | 8.2% | 8893878 | 52.3 | 43.8 | 17.7% | 8893898 | 80.4 | 77.1 | 4.2% | 8893919 | 65.3 | 65.8 | 0.8% |
| Cs | 8893859 | 1.19 | 1.22 | 2.5% | 8893878 | 1.26 | 1.17 | 7.4% | 8893898 | 1.90 | 1.93 | 1.6% | 8893919 | 1.52 | 1.48 | 2.7% |
| Cu | 8893859 | 23.5 | 25.8 | 9.3% | 8893878 | 28.1 | 23.3 | 18.7% | 8893898 | 16.5 | 16.1 | 2.5% | 8893919 | 16.4 | 15.6 | 5.0% |
| Fe | 8893859 | 2.20 | 2.18 | 0.9% | 8893878 | 2.43 | 2.29 | 5.9% | 8893898 | 3.98 | 3.87 | 2.8% | 8893919 | 3.38 | 3.27 | 3.3% |
| Ga | 8893859 | 15.1 | 15.2 | 0.7% | 8893878 | 16.1 | 14.1 | 13.2% | 8893898 | 15.5 | 15.2 | 2.0% | 8893919 | 17.3 | 16.6 | 4.1% |
| Ge | 8893859 | < 0.05 | < 0.05 | 0.0% | 8893878 | < 0.05 | < 0.05 | 0.0% | 8893898 | < 0.05 | < 0.05 | 0.0% | 8893919 | < 0.05 | < 0.05 | 0.0% |
| Hf | 8893859 | 1.9 | 1.9 | 0.0% | 8893878 | 3.1 | 3.1 | 0.0% | 8893898 | 2.6 | 2.6 | 0.0% | 8893919 | 2.8 | 2.8 | 0.0% |
| In | 8893859 | 0.027 | 0.025 | 7.7% | 8893878 | 0.030 | 0.025 | 18.2% | 8893898 | 0.0416 | 0.0397 | 4.7% | 8893919 | 0.030 | 0.028 | 6.9% |
| K | 8893859 | 1.57 | 1.57 | 0.0% | 8893878 | 1.55 | 1.47 | 5.3% | 8893898 | 1.28 | 1.26 | 1.6% | 8893919 | 1.56 | 1.53 | 1.9% |
| La | 8893859 | 10.2 | 10.3 | 1.0% | 8893878 | 11.5 | 12.2 | 5.9% | 8893898 | 13.9 | 15.8 | 12.8% | 8893919 | 10.3 | 11.3 | 9.3% |
| Li | 8893859 | 18.0 | 17.9 | 0.6% | 8893878 | 15.2 | 14.4 | 5.4% | 8893898 | 23.7 | 23.4 | 1.3% | 8893919 | 18.7 | 18.4 | 1.6% |
| Mg | 8893859 | 0.840 | 0.814 | 3.1% | 8893878 | 0.611 | 0.573 | 6.4% | 8893898 | 0.69 | 0.67 | 2.9% | 8893919 | 0.75 | 0.73 | 2.7% |
| Mn | 8893859 | 346 | 359 | 3.7% | 8893878 | 294 | 279 | 5.2% | 8893898 | 382 | 363 | 5.1% | 8893919 | 351 | 352 | 0.3% |
| Mo | 8893859 | 0.33 | 0.38 | 14.1% | 8893878 | 0.63 | 0.56 | 11.8% | 8893898 | 0.973 | 1.05 | 7.6% | 8893919 | 0.51 | 0.50 | 2.0% |
| Na | 8893859 | 2.12 | 2.11 | 0.5% | 8893878 | 2.08 | 1.99 | 4.4% | 8893898 | 1.46 | 1.42 | 2.8% | 8893919 | 2.00 | 1.97 | 1.5% |
| Nb | 8893859 | 5.6 | 5.6 | 0.0% | 8893878 | 6.5 | 5.9 | 9.7% | 8893898 | 7.2 | 7.4 | 2.7% | 8893919 | 7.4 | 6.0 | 20.9% |
| Ni | 8893859 | 31.6 | 32.0 | 1.3% | 8893878 | 26.7 | 26.6 | 0.4% | 8893898 | 33.1 | 32.6 | 1.5% | 8893919 | 31.2 | 30.2 | 3.3% |
| P | 8893859 | 371 | 366 | 1.4% | 8893878 | 250 | 240 | 4.1% | 8893898 | 2070 | 2150 | 3.8% | 8893919 | 239 | 235 | 1.7% |
| Pb | 8893859 | 11.6 | 12.1 | 4.2% | 8893878 | 12.0 | 11.4 | 5.1% | 8893898 | 13.1 | 13.2 | 0.8% | 8893919 | 12.5 | 11.9 | 4.9% |
| Rb | 8893859 | 60.6 | 61.3 | 1.1% | 8893878 | 47.3 | 43.6 | 8.1% | 8893898 | 40.6 | 40.1 | 1.2% | 8893919 | 54.4 | 51.3 | 5.9% |
| Re | 8893859 | < 0.002 | < 0.002 | 0.0% | 8893878 | < 0.002 | < 0.002 | 0.0% | 8893898 | < 0.002 | < 0.002 | 0.0% | 8893919 | < 0.002 | < 0.002 | 0.0% |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

| | | | | | | | | | | | | | | | | |
|----|---------|-------|-------|-------|---------|-------|-------|-------|---------|-------|-------|-------|---------|-------|-------|-------|
| S | 8893859 | 0.03 | 0.03 | 0.0% | 8893878 | 0.04 | 0.04 | 0.0% | 8893898 | 0.07 | 0.07 | 0.0% | 8893919 | 0.04 | 0.04 | 0.0% |
| Sb | 8893859 | 0.111 | 0.105 | 5.6% | 8893878 | 0.181 | 0.191 | 5.4% | 8893898 | 0.35 | 0.40 | 13.3% | 8893919 | 0.16 | 0.20 | 22.2% |
| Sc | 8893859 | 8.2 | 8.5 | 3.6% | 8893878 | 8.5 | 8.2 | 3.6% | 8893898 | 9.1 | 9.0 | 1.1% | 8893919 | 9.59 | 9.11 | 5.1% |
| Se | 8893859 | 0.5 | 0.5 | 0.0% | 8893878 | 0.9 | 0.8 | 11.8% | 8893898 | 1.40 | 1.49 | 6.2% | 8893919 | 0.6 | 0.9 | |
| Sn | 8893859 | 1.2 | 1.1 | 8.7% | 8893878 | 1.2 | 1.2 | 0.0% | 8893898 | 1.6 | 1.1 | | 8893919 | 1.24 | 1.15 | 7.5% |
| Sr | 8893859 | 374 | 377 | 0.8% | 8893878 | 264 | 247 | 6.7% | 8893898 | 192 | 182 | 5.3% | 8893919 | 248 | 251 | 1.2% |
| Ta | 8893859 | 0.39 | 0.36 | 8.0% | 8893878 | 0.433 | 0.449 | 3.6% | 8893898 | 0.52 | 0.47 | 10.1% | 8893919 | 0.35 | 0.32 | 9.0% |
| Te | 8893859 | 0.02 | 0.02 | 0.0% | 8893878 | 0.028 | 0.025 | 11.3% | 8893898 | 0.042 | 0.050 | 17.4% | 8893919 | 0.01 | 0.06 | |
| Th | 8893859 | 2.43 | 3.00 | 21.0% | 8893878 | 3.34 | 3.70 | 10.2% | 8893898 | 4.84 | 5.72 | 16.7% | 8893919 | 3.9 | 4.3 | 9.8% |
| Ti | 8893859 | 0.28 | 0.28 | 0.0% | 8893878 | 0.297 | 0.290 | 2.4% | 8893898 | 0.375 | 0.350 | 6.9% | 8893919 | 0.31 | 0.30 | 3.3% |
| Tl | 8893859 | 0.265 | 0.270 | 1.9% | 8893878 | 0.278 | 0.271 | 2.6% | 8893898 | 0.23 | 0.23 | 0.0% | 8893919 | 0.29 | 0.27 | 7.1% |
| U | 8893859 | 0.609 | 0.612 | 0.5% | 8893878 | 0.963 | 0.931 | 3.4% | 8893898 | 1.04 | 1.13 | 8.3% | 8893919 | 0.917 | 0.870 | 5.3% |
| V | 8893859 | 55.8 | 57.6 | 3.2% | 8893878 | 67.1 | 63.4 | 5.7% | 8893898 | 88.4 | 81.3 | 8.4% | 8893919 | 89.2 | 84.3 | 5.6% |
| W | 8893859 | 0.3 | 0.5 | | 8893878 | 0.45 | 0.46 | 2.2% | 8893898 | 0.6 | 0.5 | 18.2% | 8893919 | 0.34 | 0.36 | 5.7% |
| Y | 8893859 | 9.50 | 9.58 | 0.8% | 8893878 | 9.93 | 9.33 | 6.2% | 8893898 | 8.5 | 8.7 | 2.3% | 8893919 | 9.11 | 9.36 | 2.7% |
| Zn | 8893859 | 35.1 | 29.9 | 16.0% | 8893878 | 30.6 | 33.0 | 7.5% | 8893898 | 83.8 | 85.8 | 2.4% | 8893919 | 39.5 | 38.8 | 1.8% |
| Zr | 8893859 | 82.5 | 82.2 | 0.4% | 8893878 | 140 | 130 | 7.4% | 8893898 | 102 | 102 | 0.0% | 8893919 | 123 | 124 | 0.8% |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| Parameter | CRM #1 (ref.SY-4) | | | | CRM #2 (ref.GTS-2A) | | | | CRM #3 (ref.Till-2) | | | | CRM #4 (ref.Till-2) | | | |
|-----------|-------------------|--------|----------|------------|---------------------|--------|----------|------------|---------------------|--------|----------|------------|---------------------|--------|----------|------------|
| | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits |
| Al | 10.95 | 11.02 | 100% | 90% - 110% | 6.96 | 6.68 | 95% | 90% - 110% | | | | | 8.17 | 7.99 | 97% | 90% - 110% |
| As | | | | | 124 | 123 | 99% | 90% - 110% | | | | | 26 | 28.3 | 108% | 90% - 110% |
| Ba | 340 | 338 | 99% | 90% - 110% | 186 | 179 | 96% | 90% - 110% | | | | | 540 | 519 | 96% | 90% - 110% |
| Be | 2.6 | 2.83 | 108% | 90% - 110% | | | | | | | | | 4.0 | 3.41 | 85% | 90% - 110% |
| Ca | 5.72 | 5.65 | 98% | 90% - 110% | 4.01 | 3.75 | 93% | 90% - 110% | | | | | 0.907 | 0.882 | 97% | 90% - 110% |
| Ce | 122 | 115 | 94% | 90% - 110% | 24 | 22 | 91% | 90% - 110% | | | | | 98 | 95.1 | 97% | 90% - 110% |
| Co | 2.8 | 2.64 | 94% | 90% - 110% | 22.1 | 21.3 | 96% | 90% - 110% | | | | | | | | |
| Cr | | | | | | | | | | | | | 60.3 | 61 | 101% | 90% - 110% |
| Cs | 1.5 | 1.62 | 108% | 90% - 110% | | | | | | | | | 12 | 11.8 | 98% | 90% - 110% |
| Cu | | | | | 88.6 | 98.2 | 110% | 90% - 110% | | | | | 150 | 144 | 96% | 90% - 110% |
| Fe | 4.34 | 4.25 | 97% | 90% - 110% | 7.56 | 7.13 | 94% | 90% - 110% | | | | | 3.77 | 3.71 | 98% | 90% - 110% |
| Ga | 35 | 37.5 | 107% | 90% - 110% | | | | | | | | | | | | |
| Hf | | | | | | | | | | | | | 11 | 3.59 | | 90% - 110% |
| K | 1.37 | 1.4 | 102% | 90% - 110% | 2.021 | 1.909 | 94% | 90% - 110% | | | | | | | | |
| La | 58 | 53.0 | 91% | 90% - 110% | | | | | | | | | 44 | 41.4 | 94% | 90% - 110% |
| Li | 37 | 38 | 102% | 90% - 110% | | | | | | | | | 47 | 44 | 93% | 90% - 110% |
| Mg | 0.325 | 0.313 | 96% | 90% - 110% | 2.412 | 2.353 | 97% | 90% - 110% | | | | | 1.10 | 1.05 | 95% | 90% - 110% |
| Mn | | | | | 1510 | 1382 | 91% | 90% - 110% | | | | | 780 | 719 | 92% | 90% - 110% |
| Mo | | | | | | | | | | | | | 14 | 13.6 | 97% | 90% - 110% |
| Na | 5.267 | 5.258 | 99% | 90% - 110% | 0.617 | 0.603 | 97% | 90% - 110% | | | | | 1.624 | 1.621 | 99% | 90% - 110% |
| Nb | 13 | 14.3 | 110% | 90% - 110% | | | | | | | | | 20 | 16.3 | 81% | 90% - 110% |
| Ni | 9 | 9 | 100% | 90% - 110% | 77.1 | 69.5 | 90% | 90% - 110% | | | | | 32 | 32 | 100% | 90% - 110% |
| P | | | | | 892 | 976 | 109% | 90% - 110% | | | | | | | | |
| Pb | 10 | 10.8 | 108% | 90% - 110% | | | | | | | | | 31 | 29.3 | 94% | 90% - 110% |
| Rb | 55 | 54.6 | 99% | 90% - 110% | | | | | 143 | 142 | 99% | 90% - 110% | 143 | 157 | 109% | 90% - 110% |
| S | | | | | 0.348 | 0.383 | 110% | 90% - 110% | | | | | | | | |
| Sb | | | | | | | | | | | | | 0.8 | 0.841 | 105% | 90% - 110% |
| Sc | 1.1 | 0.8 | 72% | 90% - 110% | | | | | | | | | 12 | 12 | 100% | 90% - 110% |
| Sr | 1191 | 1113 | 93% | 90% - 110% | | | | | | | | | 144 | 123 | 85% | 90% - 110% |
| Ta | 0.9 | 0.9 | 100% | 90% - 110% | | | | | | | | | | | | |
| Th | 1.4 | 1.11 | 79% | 90% - 110% | | | | | | | | | 18.4 | 17.0 | 92% | 90% - 110% |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

| | | | | | | | | | | | | | | | | |
|---------------------|--------|--------|----------|------------|-----|-----|-----|------------|--|--|--|--|------|------|-----|------------|
| Ti | 0.172 | 0.174 | 101% | 90% - 110% | | | | | | | | | 0.53 | 0.45 | 84% | 90% - 110% |
| U | | | | | | | | | | | | | 5.7 | 4.33 | 75% | 90% - 110% |
| V | 8 | 7 | 87% | 90% - 110% | | | | | | | | | 77 | 76 | 98% | 90% - 110% |
| W | | | | | | | | | | | | | 5 | 4.30 | 86% | 90% - 110% |
| Y | 119 | 131 | 110% | 90% - 110% | | | | | | | | | | | | |
| Zn | 93 | 98 | 105% | 90% - 110% | 208 | 203 | 97% | 90% - 110% | | | | | 130 | 119 | 91% | 90% - 110% |
| CRM #5 (ref.GTS-2A) | | | | | | | | | | | | | | | | |
| Parameter | Expect | Actual | Recovery | Limits | | | | | | | | | | | | |
| Al | 6.96 | 6.72 | 96% | 90% - 110% | | | | | | | | | | | | |
| As | 124 | 130 | 104% | 90% - 110% | | | | | | | | | | | | |
| Ba | 186 | 180 | 96% | 90% - 110% | | | | | | | | | | | | |
| Ca | 4.01 | 3.78 | 94% | 90% - 110% | | | | | | | | | | | | |
| Ce | 24 | 22 | 91% | 90% - 110% | | | | | | | | | | | | |
| Co | 22.1 | 21.6 | 97% | 90% - 110% | | | | | | | | | | | | |
| Cu | 88.6 | 82.9 | 93% | 90% - 110% | | | | | | | | | | | | |
| Fe | 7.56 | 7.23 | 95% | 90% - 110% | | | | | | | | | | | | |
| K | 2.021 | 1.937 | 95% | 90% - 110% | | | | | | | | | | | | |
| Mg | 2.412 | 2.37 | 98% | 90% - 110% | | | | | | | | | | | | |
| Mn | 1510 | 1403 | 92% | 90% - 110% | | | | | | | | | | | | |
| Na | 0.617 | 0.608 | 98% | 90% - 110% | | | | | | | | | | | | |
| Ni | 77.1 | 71.8 | 93% | 90% - 110% | | | | | | | | | | | | |
| P | 892 | 994 | 111% | 90% - 110% | | | | | | | | | | | | |
| S | 0.348 | 0.376 | 108% | 90% - 110% | | | | | | | | | | | | |
| Zn | 208 | 197 | 94% | 90% - 110% | | | | | | | | | | | | |

Method Summary

CLIENT NAME: CRUZ COBALT CORP.

AGAT WORK ORDER: 17T282583

PROJECT:

ATTENTION TO: Jason Gigliotti, Jim Nelson

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|----------------|---------------|----------------------|----------------------|
| Solid Analysis | | | |
| Ag | MIN-200-12020 | | ICP-MS |
| Al | MIN-200-12020 | | ICP/OES |
| As | MIN-200-12020 | | ICP-MS |
| Ba | MIN-200-12020 | | ICP-MS |
| Be | MIN-200-12020 | | ICP-MS |
| Bi | MIN-200-12020 | | ICP-MS |
| Ca | MIN-200-12020 | | ICP/OES |
| Cd | MIN-200-12020 | | ICP-MS |
| Ce | MIN-200-12020 | | ICP-MS |
| Co | MIN-200-12020 | | ICP-MS |
| Cr | MIN-200-12020 | | ICP/OES |
| Cs | MIN-200-12020 | | ICP-MS |
| Cu | MIN-200-12020 | | ICP-MS |
| Fe | MIN-200-12020 | | ICP/OES |
| Ga | MIN-200-12020 | | ICP-MS |
| Ge | MIN-200-12020 | | ICP-MS |
| Hf | MIN-200-12020 | | ICP-MS |
| In | MIN-200-12020 | | ICP-MS |
| K | MIN-200-12020 | | ICP/OES |
| La | MIN-200-12020 | | ICP-MS |
| Li | MIN-200-12020 | | ICP-MS |
| Mg | MIN-200-12020 | | ICP/OES |
| Mn | MIN-200-12020 | | ICP/OES |
| Mo | MIN-200-12020 | | ICP-MS |
| Na | MIN-200-12020 | | ICP/OES |
| Nb | MIN-200-12020 | | ICP-MS |
| Ni | MIN-200-12020 | | ICP-MS |
| P | MIN-200-12020 | | ICP/OES |
| Pb | MIN-200-12020 | | ICP-MS |
| Rb | MIN-200-12020 | | ICP-MS |
| Re | MIN-200-12020 | | ICP-MS |
| S | MIN-200-12020 | | ICP/OES |
| Sb | MIN-200-12020 | | ICP-MS |
| Sc | MIN-200-12020 | | ICP-MS |
| Se | MIN-200-12020 | | ICP-MS |
| Sn | MIN-200-12020 | | ICP-MS |
| Sr | MIN-200-12020 | | ICP-MS |
| Ta | MIN-200-12020 | | ICP-MS |
| Te | MIN-200-12020 | | ICP-MS |
| Th | MIN-200-12020 | | ICP-MS |
| Ti | MIN-200-12020 | | ICP/OES |
| Tl | MIN-200-12020 | | ICP-MS |
| U | MIN-200-12020 | | ICP-MS |
| V | MIN-200-12020 | | ICP/OES |
| W | MIN-200-12020 | | ICP-MS |
| Y | MIN-200-12020 | | ICP-MS |
| Zn | MIN-200-12020 | | ICP-MS |
| Zr | MIN-200-12020 | | ICP-MS |

CLIENT NAME: CRUZ COBALT CORP.
P.O BOX 10112 1470-701 W. GEORGIA ST
VANCOUVER, BC V7Y 1C6
604-646-6908

ATTENTION TO: Jason Gigliotti, Jim Nelson

PROJECT:

AGAT WORK ORDER: 17T282584

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Jan 18, 2018

PAGES (INCLUDING COVER): 19

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.

Certificate of Analysis

AGAT WORK ORDER: 17T282584

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
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<http://www.agatlabs.com>

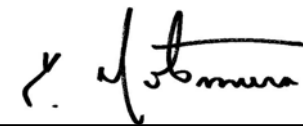
CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | DATE REPORTED: Jan 18, 2018 | | | SAMPLE TYPE: Other | | | | | | | |
|----------------------------|-----------------------------|------|------|-----------------------------|------|------|--------------------|------|------|------|------|------|------|------|
| Analyte: | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs | Cu | Fe |
| Unit: | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % |
| RDL: | 0.01 | 0.01 | 0.2 | 1 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.05 | 0.5 | 0.01 | 0.5 | 0.01 |
| G30 (8893940) | 0.19 | 6.98 | 4.1 | 509 | 1.29 | 0.10 | 1.47 | 0.08 | 36.1 | 10.7 | 60.4 | 1.29 | 3.6 | 2.37 |
| G31 (8893941) | 0.21 | 7.74 | 3.0 | 430 | 1.30 | 0.12 | 1.36 | 0.08 | 32.4 | 13.2 | 79.1 | 1.51 | 5.8 | 3.42 |
| G32 (8893942) | 0.36 | 6.92 | 1.4 | 497 | 1.17 | 0.09 | 1.38 | 0.09 | 41.7 | 12.7 | 71.0 | 1.77 | 9.9 | 2.40 |
| G33 (8893943) | 0.17 | 6.91 | 2.2 | 466 | 1.31 | 0.09 | 1.62 | 0.06 | 21.9 | 15.3 | 75.6 | 1.25 | 5.5 | 2.74 |
| G34 (8893944) | 0.24 | 6.91 | 2.0 | 498 | 1.23 | 0.08 | 1.68 | 0.07 | 52.0 | 14.1 | 81.0 | 1.42 | 8.9 | 3.20 |
| G35 (8893945) | 0.24 | 6.85 | 2.1 | 479 | 1.18 | 0.09 | 1.36 | 0.07 | 21.3 | 14.6 | 60.6 | 1.38 | 6.2 | 2.39 |
| G36 (8893946) | 0.35 | 7.41 | 3.2 | 509 | 1.17 | 0.12 | 1.43 | 0.07 | 26.6 | 17.0 | 70.5 | 1.63 | 6.9 | 2.63 |
| G37 (8893947) | 0.31 | 7.51 | 3.6 | 493 | 1.33 | 0.15 | 1.50 | 0.09 | 27.5 | 18.3 | 80.5 | 1.90 | 8.3 | 3.49 |
| G38 (8893948) | 0.26 | 7.35 | 2.9 | 553 | 1.26 | 0.09 | 1.52 | 0.08 | 31.2 | 15.4 | 73.8 | 1.89 | 9.4 | 2.51 |
| G39 (8893949) | 0.18 | 6.93 | 3.1 | 525 | 1.28 | 0.09 | 1.37 | 0.05 | 41.5 | 14.2 | 68.5 | 1.60 | 13.4 | 2.24 |
| G40 (8893950) | 0.25 | 7.11 | 1.7 | 560 | 1.27 | 0.09 | 1.31 | 0.06 | 27.1 | 11.9 | 59.0 | 1.94 | 6.0 | 2.22 |
| G41 (8893951) | 0.27 | 7.17 | 2.4 | 512 | 1.30 | 0.12 | 1.41 | 0.09 | 30.2 | 14.8 | 69.7 | 2.10 | 5.9 | 3.02 |
| G42 (8893952) | 0.32 | 6.94 | 4.0 | 507 | 1.25 | 0.11 | 1.43 | 0.11 | 29.4 | 16.6 | 66.2 | 2.10 | 13.8 | 2.81 |
| G43 (8893953) | 0.24 | 7.40 | 4.1 | 513 | 1.31 | 0.11 | 1.54 | 0.08 | 26.6 | 18.7 | 68.4 | 1.59 | 7.9 | 2.63 |
| G44 (8893954) | 0.51 | 8.07 | 15.7 | 446 | 1.78 | 0.30 | 1.40 | 0.18 | 51.1 | 38.6 | 88.2 | 2.60 | 44.3 | 3.58 |
| G45 (8893955) | 0.37 | 6.66 | 6.8 | 529 | 1.18 | 0.17 | 1.50 | 0.17 | 28.0 | 16.1 | 69.5 | 2.92 | 12.7 | 2.97 |
| H1 (8893956) | 0.19 | 6.50 | 2.5 | 527 | 1.13 | 0.08 | 1.24 | 0.05 | 13.9 | 8.69 | 41.2 | 1.53 | 4.4 | 1.91 |
| H2 (8893957) | 0.14 | 6.87 | 2.4 | 476 | 1.36 | 0.09 | 1.50 | 0.05 | 16.3 | 13.3 | 53.8 | 1.48 | 5.0 | 2.24 |
| H3 (8893958) | 0.12 | 6.46 | 4.2 | 539 | 1.38 | 0.08 | 1.47 | 0.02 | 37.4 | 10.3 | 44.1 | 1.26 | 15.5 | 1.57 |
| H4 (8893959) | 0.13 | 6.46 | 2.3 | 517 | 1.28 | 0.06 | 1.32 | 0.04 | 12.4 | 10.2 | 35.5 | 1.24 | 3.9 | 1.54 |
| H5 (8893960) | 0.14 | 6.60 | 4.0 | 492 | 1.28 | 0.07 | 1.48 | 0.06 | 18.5 | 12.5 | 44.0 | 1.22 | 3.9 | 1.84 |
| H6 (8893961) | 0.19 | 7.16 | 2.5 | 486 | 1.20 | 0.11 | 1.32 | 0.08 | 20.0 | 11.9 | 54.7 | 1.38 | 4.6 | 2.42 |
| H7 (8893962) | 0.15 | 6.55 | 3.3 | 500 | 1.35 | 0.08 | 1.46 | 0.07 | 31.7 | 14.0 | 54.7 | 1.40 | 7.6 | 2.00 |
| H8 (8893963) | 0.25 | 6.95 | 3.9 | 504 | 1.31 | 0.11 | 1.35 | 0.05 | 28.6 | 12.9 | 55.8 | 1.72 | 6.1 | 2.45 |
| H9 (8893964) | 0.27 | 6.80 | 78.2 | 453 | 1.23 | 0.19 | 1.27 | 0.06 | 29.2 | 16.7 | 66.7 | 2.17 | 12.6 | 3.30 |
| H10 (8893965) | 0.21 | 6.60 | 4.4 | 466 | 1.30 | 0.13 | 1.54 | 0.08 | 30.8 | 18.8 | 76.1 | 1.68 | 16.6 | 3.72 |
| H11 (8893966) | 0.19 | 6.67 | 2.4 | 491 | 1.38 | 0.11 | 1.39 | 0.06 | 33.0 | 14.1 | 52.3 | 1.60 | 13.3 | 2.17 |
| H12 (8893967) | 0.13 | 6.26 | 2.4 | 476 | 1.33 | 0.07 | 1.40 | 0.03 | 23.3 | 12.5 | 41.6 | 1.13 | 4.6 | 1.74 |
| H13 (8893968) | 0.18 | 6.46 | 1.6 | 511 | 1.12 | 0.09 | 1.49 | 0.04 | 24.3 | 10.3 | 50.2 | 1.40 | 9.5 | 1.96 |
| H14 (8893969) | 0.15 | 6.69 | 3.6 | 500 | 1.38 | 0.08 | 1.67 | 0.05 | 32.4 | 15.8 | 57.3 | 1.14 | 4.4 | 2.14 |
| H15 (8893970) | 0.21 | 6.48 | 2.1 | 475 | 1.33 | 0.12 | 1.44 | 0.05 | 28.5 | 14.5 | 56.5 | 2.01 | 11.5 | 2.46 |
| H16 (8893971) | 0.22 | 6.59 | 3.1 | 439 | 1.21 | 0.15 | 1.37 | 0.05 | 28.2 | 18.0 | 63.7 | 2.16 | 18.7 | 2.84 |

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 17T282584

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 18, 2018

SAMPLE TYPE: Other

| Analyte: | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs | Cu | Fe |
|---------------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|
| Unit: | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % |
| RDL: | 0.01 | 0.01 | 0.2 | 1 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.05 | 0.5 | 0.01 | 0.5 | 0.01 |
| H17 (8893972) | 0.31 | 7.18 | 7.7 | 390 | 1.48 | 0.22 | 1.16 | 0.11 | 25.9 | 24.4 | 77.4 | 2.52 | 19.1 | 4.31 |
| H18 (8893973) | 0.14 | 6.78 | 2.5 | 535 | 1.31 | 0.07 | 1.84 | 0.02 | 32.5 | 10.4 | 50.3 | 1.23 | 3.7 | 1.88 |
| H19 (8893974) | 0.25 | 6.87 | 6.6 | 425 | 1.32 | 0.17 | 1.43 | 0.09 | 29.3 | 19.1 | 74.0 | 2.03 | 16.3 | 3.41 |
| H20 (8893975) | 0.14 | 6.45 | 1.4 | 531 | 1.13 | 0.07 | 1.57 | 0.05 | 18.2 | 9.67 | 45.5 | 1.30 | 3.7 | 1.51 |
| H21 (8893976) | 0.37 | 6.80 | 8.3 | 359 | 1.27 | 0.29 | 1.07 | 0.10 | 25.8 | 19.7 | 80.1 | 2.49 | 20.2 | 5.45 |
| H22 (8893977) | 0.34 | 6.70 | 1.8 | 513 | 1.19 | 0.12 | 1.28 | 0.05 | 25.5 | 11.1 | 53.9 | 1.66 | 4.1 | 2.46 |
| H23 (8893978) | 0.18 | 6.73 | 8.9 | 479 | 1.54 | 0.28 | 1.45 | 0.07 | 30.9 | 23.4 | 51.5 | 1.45 | 23.9 | 2.81 |
| H24 (8893979) | 0.20 | 6.50 | 2.8 | 502 | 1.18 | 0.12 | 1.35 | 0.06 | 18.7 | 9.58 | 48.9 | 1.36 | 7.5 | 2.29 |
| H25 (8893980) | 0.14 | 7.01 | 3.3 | 469 | 1.41 | 0.08 | 1.59 | 0.04 | 29.7 | 16.3 | 59.2 | 1.21 | 3.7 | 2.58 |
| H26 (8893981) | 0.19 | 6.98 | 2.6 | 471 | 1.32 | 0.16 | 1.50 | 0.08 | 30.1 | 14.3 | 59.3 | 1.44 | 4.3 | 2.53 |
| H27 (8893982) | 0.28 | 5.60 | 3.8 | 464 | 0.88 | 0.15 | 1.08 | 0.07 | 28.5 | 7.38 | 44.5 | 1.46 | 13.8 | 2.14 |
| H28 (8893983) | 0.29 | 6.00 | 3.9 | 496 | 1.12 | 0.13 | 1.30 | 0.07 | 29.0 | 9.56 | 46.1 | 1.23 | 7.8 | 1.85 |
| H29 (8893984) | 0.33 | 6.94 | 2.0 | 488 | 1.35 | 0.08 | 1.45 | 0.07 | 19.0 | 13.7 | 62.7 | 1.50 | 4.4 | 2.41 |
| H30 (8893985) | 0.18 | 6.83 | 4.2 | 474 | 1.39 | 0.09 | 1.53 | 0.05 | 30.2 | 15.3 | 65.1 | 1.37 | 5.2 | 2.38 |
| H31 (8893986) | 0.26 | 7.06 | 2.1 | 523 | 1.38 | 0.08 | 1.55 | 0.06 | 31.7 | 14.3 | 64.1 | 1.60 | 4.8 | 2.23 |
| H32 (8893987) | 0.30 | 7.09 | 2.5 | 476 | 1.18 | 0.12 | 1.39 | 0.07 | 22.8 | 20.7 | 75.8 | 1.70 | 7.5 | 3.08 |
| H33 (8893988) | 0.29 | 6.68 | 3.3 | 475 | 1.26 | 0.11 | 1.44 | 0.09 | 36.9 | 17.6 | 81.1 | 1.67 | 7.4 | 3.05 |
| H34 (8893989) | 0.39 | 7.04 | 3.2 | 467 | 1.32 | 0.15 | 1.55 | 0.07 | 33.2 | 22.9 | 87.9 | 1.84 | 12.2 | 3.45 |
| H35 (8893990) | 0.47 | 7.22 | 5.5 | 472 | 1.38 | 0.16 | 1.43 | 0.13 | 34.6 | 23.2 | 92.3 | 2.03 | 21.2 | 3.60 |
| H36 (8893991) | 0.51 | 7.81 | 7.4 | 474 | 1.55 | 0.18 | 1.26 | 0.08 | 29.9 | 24.4 | 84.9 | 2.35 | 14.2 | 3.62 |
| H37 (8893992) | 0.46 | 7.13 | 6.5 | 491 | 1.36 | 0.16 | 1.49 | 0.13 | 24.6 | 16.8 | 77.4 | 1.75 | 7.0 | 3.69 |
| H38 (8893993) | 0.43 | 7.32 | 5.8 | 464 | 1.32 | 0.13 | 1.45 | 0.09 | 22.2 | 23.1 | 94.6 | 1.98 | 14.0 | 3.91 |
| H39 (8893994) | 0.32 | 7.06 | 2.4 | 494 | 1.49 | 0.10 | 1.58 | 0.08 | 37.6 | 18.5 | 74.7 | 1.73 | 5.1 | 2.80 |
| H40 (8893995) | 0.19 | 6.56 | 1.8 | 500 | 1.50 | 0.09 | 1.48 | 0.05 | 28.1 | 15.0 | 53.9 | 1.40 | 4.0 | 2.18 |
| H41 (8893996) | 0.21 | 6.68 | 2.7 | 507 | 1.45 | 0.09 | 1.45 | 0.06 | 23.8 | 16.2 | 69.2 | 1.75 | 7.2 | 2.20 |
| H42 (8893997) | 0.27 | 7.07 | 4.0 | 497 | 1.48 | 0.11 | 1.55 | 0.07 | 33.3 | 23.5 | 73.6 | 1.70 | 6.1 | 2.79 |
| H43 (8893998) | 0.70 | 7.50 | 17.3 | 412 | 1.75 | 0.27 | 1.37 | 0.17 | 41.2 | 43.1 | 88.2 | 3.35 | 68.1 | 4.48 |
| I1 (8893999) | 0.23 | 6.68 | 2.2 | 499 | 1.31 | 0.07 | 1.40 | 0.04 | 17.1 | 12.2 | 51.7 | 1.44 | 3.0 | 1.92 |
| I2 (8894000) | 0.51 | 6.60 | 3.8 | 514 | 1.26 | 0.10 | 1.41 | 0.07 | 25.7 | 12.1 | 49.0 | 1.38 | 3.0 | 2.13 |
| I3 (8894001) | 0.35 | 6.69 | 3.8 | 516 | 1.28 | 0.14 | 1.35 | 0.05 | 20.9 | 12.4 | 51.1 | 1.64 | 5.3 | 2.08 |
| I4 (8894002) | 0.24 | 6.82 | 6.0 | 437 | 1.46 | 0.17 | 1.23 | 0.06 | 71.9 | 23.0 | 70.1 | 2.44 | 38.4 | 2.86 |
| I5 (8894003) | 0.22 | 7.22 | 3.8 | 454 | 1.34 | 0.14 | 1.23 | 0.07 | 21.8 | 19.5 | 63.4 | 1.84 | 6.2 | 2.81 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282584

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
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 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 18, 2018

SAMPLE TYPE: Other

| Sample ID (AGAT ID) | Analyte: Unit: RDL: | Ag ppm 0.01 | Al % 0.01 | As ppm 0.2 | Ba ppm 1 | Be ppm 0.05 | Bi ppm 0.01 | Ca % 0.01 | Cd ppm 0.02 | Ce ppm 0.01 | Co ppm 0.05 | Cr ppm 0.5 | Cs ppm 0.01 | Cu ppm 0.5 | Fe % 0.01 |
|---------------------|---------------------------|-------------------|-----------------|------------------|----------------|-------------------|-------------------|-----------------|-------------------|-------------------|-------------------|------------------|-------------------|------------------|-----------------|
| I6 (8894004) | | 0.20 | 7.04 | 5.5 | 476 | 1.46 | 0.16 | 1.31 | 0.04 | 28.5 | 21.2 | 67.5 | 1.83 | 16.2 | 2.59 |
| I7 (8894005) | | 0.28 | 6.66 | 3.0 | 471 | 1.33 | 0.14 | 1.34 | 0.08 | 29.1 | 18.3 | 66.6 | 2.01 | 12.9 | 2.77 |
| I8 (8894006) | | 0.25 | 7.39 | 7.4 | 476 | 1.36 | 0.17 | 1.22 | 0.07 | 27.0 | 19.4 | 71.1 | 2.21 | 19.5 | 3.19 |
| I9 (8894007) | | 0.24 | 7.14 | 8.6 | 406 | 1.38 | 0.21 | 1.17 | 0.09 | 27.9 | 25.5 | 77.5 | 2.49 | 21.9 | 3.94 |
| I10 (8894008) | | 0.40 | 7.75 | 6.0 | 490 | 1.68 | 0.12 | 1.46 | 0.06 | 116 | 36.4 | 78.1 | 1.57 | 30.5 | 2.77 |
| I11 (8894009) | | 0.30 | 6.94 | 4.8 | 440 | 1.28 | 0.16 | 1.33 | 0.08 | 36.4 | 18.1 | 75.7 | 1.78 | 20.1 | 2.88 |
| I12 (8894010) | | 0.27 | 7.09 | 4.3 | 497 | 1.16 | 0.10 | 1.43 | 0.05 | 26.5 | 14.0 | 56.9 | 1.41 | 7.1 | 2.34 |
| I13 (8894011) | | 0.17 | 6.75 | 2.8 | 519 | 1.29 | 0.09 | 1.45 | 0.06 | 25.8 | 14.2 | 53.2 | 1.49 | 8.3 | 2.08 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282584

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 18, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|-------|-----|-------|------|-----------------------------|------|------|-----|------|--------------------|------|------|------|--|
| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P | |
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm | |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 | |
| G30 (8893940) | 19.5 | <0.05 | 3.5 | 0.031 | 1.62 | 16.9 | 14.7 | 0.59 | 342 | 0.59 | 2.07 | 9.0 | 22.9 | 466 | |
| G31 (8893941) | 20.1 | <0.05 | 3.0 | 0.041 | 1.36 | 16.2 | 19.7 | 0.66 | 383 | 0.84 | 1.79 | 8.8 | 29.0 | 746 | |
| G32 (8893942) | 19.0 | <0.05 | 3.1 | 0.033 | 1.66 | 19.9 | 17.3 | 0.67 | 314 | 0.61 | 1.91 | 9.1 | 31.1 | 578 | |
| G33 (8893943) | 18.7 | <0.05 | 2.2 | 0.030 | 1.51 | 9.9 | 14.7 | 0.82 | 467 | 0.50 | 2.18 | 7.2 | 31.0 | 491 | |
| G34 (8893944) | 18.3 | <0.05 | 3.8 | 0.031 | 1.60 | 25.0 | 14.2 | 0.82 | 474 | 0.48 | 2.15 | 11.4 | 32.7 | 458 | |
| G35 (8893945) | 17.2 | <0.05 | 3.0 | 0.025 | 1.52 | 10.6 | 17.3 | 0.62 | 325 | 0.63 | 1.98 | 6.9 | 36.4 | 469 | |
| G36 (8893946) | 18.6 | <0.05 | 3.1 | 0.032 | 1.62 | 13.2 | 20.5 | 0.69 | 362 | 0.77 | 1.82 | 8.6 | 38.3 | 460 | |
| G37 (8893947) | 21.3 | <0.05 | 3.3 | 0.041 | 1.57 | 13.2 | 22.8 | 0.80 | 383 | 0.80 | 1.78 | 9.5 | 40.5 | 856 | |
| G38 (8893948) | 19.6 | <0.05 | 3.1 | 0.029 | 1.79 | 13.6 | 18.2 | 0.90 | 371 | 0.52 | 1.98 | 9.2 | 36.3 | 420 | |
| G39 (8893949) | 18.5 | <0.05 | 2.3 | 0.025 | 1.82 | 14.3 | 15.1 | 0.84 | 340 | 0.44 | 1.97 | 7.9 | 35.6 | 407 | |
| G40 (8893950) | 19.2 | <0.05 | 3.6 | 0.031 | 1.93 | 12.7 | 17.6 | 0.73 | 302 | 0.55 | 1.96 | 10.4 | 28.4 | 347 | |
| G41 (8893951) | 21.8 | <0.05 | 3.0 | 0.032 | 1.64 | 14.6 | 23.9 | 0.74 | 402 | 0.61 | 1.90 | 9.3 | 32.9 | 938 | |
| G42 (8893952) | 20.3 | <0.05 | 3.2 | 0.036 | 1.62 | 13.9 | 17.3 | 0.70 | 355 | 0.98 | 1.82 | 10.4 | 32.5 | 756 | |
| G43 (8893953) | 18.4 | <0.05 | 3.3 | 0.028 | 1.64 | 12.4 | 17.4 | 0.76 | 342 | 0.75 | 2.00 | 7.9 | 37.4 | 413 | |
| G44 (8893954) | 19.2 | <0.05 | 2.0 | 0.046 | 1.51 | 20.6 | 23.6 | 1.02 | 633 | 1.73 | 1.61 | 8.7 | 59.0 | 1290 | |
| G45 (8893955) | 22.0 | <0.05 | 3.6 | 0.038 | 1.75 | 13.5 | 26.8 | 0.76 | 473 | 1.07 | 1.77 | 10.1 | 29.9 | 954 | |
| H1 (8893956) | 20.2 | <0.05 | 1.7 | 0.020 | 1.66 | 6.8 | 12.1 | 0.47 | 257 | 0.41 | 2.10 | 5.6 | 19.6 | 531 | |
| H2 (8893957) | 19.2 | <0.05 | 2.2 | 0.027 | 1.57 | 7.9 | 14.9 | 0.69 | 344 | 0.45 | 2.14 | 5.5 | 28.5 | 507 | |
| H3 (8893958) | 19.6 | <0.05 | 2.3 | 0.020 | 1.68 | 11.8 | 10.9 | 0.58 | 391 | 0.44 | 2.31 | 4.8 | 21.9 | 137 | |
| H4 (8893959) | 17.5 | <0.05 | 1.4 | 0.015 | 1.63 | 5.7 | 11.1 | 0.53 | 226 | 0.29 | 2.24 | 4.1 | 22.5 | 236 | |
| H5 (8893960) | 19.2 | <0.05 | 1.6 | 0.021 | 1.59 | 8.3 | 12.9 | 0.60 | 323 | 0.37 | 2.25 | 4.8 | 24.0 | 327 | |
| H6 (8893961) | 19.8 | <0.05 | 2.5 | 0.031 | 1.59 | 9.6 | 16.2 | 0.54 | 274 | 0.69 | 1.98 | 6.5 | 23.6 | 369 | |
| H7 (8893962) | 18.5 | <0.05 | 2.7 | 0.022 | 1.60 | 10.9 | 11.7 | 0.64 | 336 | 0.52 | 2.10 | 6.7 | 27.5 | 391 | |
| H8 (8893963) | 21.3 | <0.05 | 3.6 | 0.027 | 1.67 | 13.1 | 17.0 | 0.60 | 282 | 0.80 | 1.89 | 7.9 | 24.9 | 410 | |
| H9 (8893964) | 23.1 | <0.05 | 3.6 | 0.036 | 1.55 | 13.9 | 27.3 | 0.68 | 334 | 1.15 | 1.69 | 9.6 | 27.4 | 270 | |
| H10 (8893965) | 21.4 | <0.05 | 3.6 | 0.032 | 1.47 | 10.7 | 16.3 | 0.74 | 460 | 0.75 | 2.04 | 8.0 | 33.1 | 421 | |
| H11 (8893966) | 21.3 | <0.05 | 2.7 | 0.026 | 1.53 | 14.8 | 14.8 | 0.53 | 294 | 0.81 | 2.03 | 6.8 | 22.3 | 277 | |
| H12 (8893967) | 18.3 | <0.05 | 1.6 | 0.019 | 1.50 | 7.6 | 10.2 | 0.55 | 259 | 0.44 | 2.21 | 4.5 | 20.5 | 342 | |
| H13 (8893968) | 20.5 | <0.05 | 3.4 | 0.024 | 1.57 | 12.0 | 12.6 | 0.59 | 321 | 0.70 | 2.14 | 7.4 | 21.5 | 181 | |
| H14 (8893969) | 19.4 | <0.05 | 2.4 | 0.023 | 1.57 | 13.8 | 10.3 | 0.67 | 392 | 0.50 | 2.33 | 5.4 | 23.7 | 522 | |
| H15 (8893970) | 22.7 | <0.05 | 3.8 | 0.029 | 1.52 | 14.4 | 17.6 | 0.65 | 328 | 0.92 | 2.00 | 7.6 | 24.4 | 203 | |
| H16 (8893971) | 21.1 | <0.05 | 3.3 | 0.030 | 1.54 | 12.8 | 20.6 | 0.87 | 425 | 0.65 | 1.91 | 7.9 | 32.4 | 207 | |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282584

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
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<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 18, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|-------|-----|-------|------|-----------------------------|------|------|-----|------|--------------------|------|------|------|--|
| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P | |
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm | |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 | |
| H17 (8893972) | 22.4 | <0.05 | 4.0 | 0.044 | 1.32 | 12.0 | 26.8 | 0.77 | 404 | 1.27 | 1.56 | 9.8 | 36.5 | 530 | |
| H18 (8893973) | 19.7 | <0.05 | 3.5 | 0.023 | 1.73 | 15.5 | 10.9 | 0.78 | 395 | 0.36 | 2.45 | 7.0 | 20.8 | 136 | |
| H19 (8893974) | 21.0 | <0.05 | 3.7 | 0.038 | 1.40 | 13.3 | 21.8 | 0.73 | 366 | 0.91 | 1.76 | 8.2 | 31.0 | 398 | |
| H20 (8893975) | 21.4 | <0.05 | 2.7 | 0.018 | 1.68 | 9.0 | 11.7 | 0.66 | 317 | 0.38 | 2.36 | 6.4 | 18.9 | 170 | |
| H21 (8893976) | 26.9 | <0.05 | 3.6 | 0.048 | 1.27 | 12.7 | 29.8 | 0.78 | 363 | 2.14 | 1.41 | 10.0 | 32.2 | 513 | |
| H22 (8893977) | 27.9 | <0.05 | 3.3 | 0.026 | 1.63 | 11.8 | 15.3 | 0.47 | 263 | 0.96 | 1.87 | 8.9 | 16.7 | 257 | |
| H23 (8893978) | 22.2 | <0.05 | 2.3 | 0.040 | 1.50 | 14.0 | 15.4 | 0.61 | 343 | 0.72 | 2.10 | 7.1 | 26.9 | 482 | |
| H24 (8893979) | 21.5 | <0.05 | 2.8 | 0.023 | 1.54 | 8.7 | 12.4 | 0.52 | 282 | 0.70 | 2.08 | 6.0 | 16.8 | 156 | |
| H25 (8893980) | 19.6 | <0.05 | 2.4 | 0.027 | 1.46 | 13.0 | 12.2 | 0.70 | 354 | 0.43 | 2.17 | 5.9 | 27.8 | 327 | |
| H26 (8893981) | 19.8 | <0.05 | 2.7 | 0.028 | 1.46 | 14.2 | 14.3 | 0.62 | 350 | 0.60 | 2.07 | 6.7 | 25.2 | 433 | |
| H27 (8893982) | 23.7 | <0.05 | 3.9 | 0.029 | 1.41 | 13.4 | 12.8 | 0.41 | 283 | 0.96 | 1.44 | 10.1 | 14.0 | 467 | |
| H28 (8893983) | 19.7 | <0.05 | 3.3 | 0.024 | 1.50 | 13.6 | 11.5 | 0.46 | 298 | 0.60 | 1.91 | 7.2 | 17.3 | 262 | |
| H29 (8893984) | 20.1 | <0.05 | 2.9 | 0.029 | 1.56 | 8.2 | 15.1 | 0.65 | 344 | 0.57 | 2.08 | 13.3 | 25.9 | 575 | |
| H30 (8893985) | 21.1 | <0.05 | 2.7 | 0.024 | 1.51 | 14.0 | 13.1 | 0.71 | 375 | 0.49 | 2.15 | 6.1 | 31.3 | 526 | |
| H31 (8893986) | 20.8 | <0.05 | 3.3 | 0.027 | 1.69 | 12.8 | 13.5 | 0.71 | 343 | 0.52 | 2.14 | 7.7 | 29.5 | 351 | |
| H32 (8893987) | 20.2 | <0.05 | 3.5 | 0.028 | 1.52 | 11.0 | 20.1 | 0.72 | 380 | 0.69 | 1.80 | 8.1 | 42.8 | 513 | |
| H33 (8893988) | 20.5 | <0.05 | 3.5 | 0.029 | 1.58 | 17.5 | 15.7 | 0.77 | 414 | 0.61 | 1.87 | 7.8 | 34.1 | 403 | |
| H34 (8893989) | 21.3 | <0.05 | 3.9 | 0.033 | 1.57 | 14.8 | 17.6 | 0.90 | 541 | 0.62 | 1.85 | 10.3 | 42.0 | 614 | |
| H35 (8893990) | 22.2 | <0.05 | 3.8 | 0.038 | 1.62 | 15.3 | 19.4 | 0.87 | 504 | 0.73 | 1.76 | 9.0 | 40.3 | 814 | |
| H36 (8893991) | 22.4 | <0.05 | 4.1 | 0.040 | 1.57 | 15.2 | 26.6 | 0.81 | 386 | 1.18 | 1.51 | 11.0 | 45.9 | 1040 | |
| H37 (8893992) | 24.5 | <0.05 | 3.1 | 0.038 | 1.58 | 11.7 | 23.5 | 0.71 | 476 | 0.74 | 1.89 | 9.0 | 28.1 | 1210 | |
| H38 (8893993) | 21.1 | <0.05 | 2.5 | 0.035 | 1.57 | 10.4 | 21.9 | 0.89 | 595 | 0.83 | 1.73 | 9.3 | 44.8 | 889 | |
| H39 (8893994) | 22.1 | <0.05 | 3.8 | 0.032 | 1.60 | 17.8 | 16.8 | 0.77 | 406 | 0.52 | 2.01 | 8.8 | 37.0 | 538 | |
| H40 (8893995) | 22.7 | <0.05 | 3.1 | 0.023 | 1.58 | 12.9 | 12.7 | 0.62 | 314 | 0.44 | 2.17 | 6.3 | 26.5 | 701 | |
| H41 (8893996) | 19.9 | <0.05 | 2.4 | 0.027 | 1.61 | 10.6 | 13.0 | 0.69 | 328 | 0.57 | 2.07 | 7.0 | 30.0 | 469 | |
| H42 (8893997) | 22.2 | <0.05 | 4.0 | 0.033 | 1.49 | 15.2 | 14.9 | 0.73 | 352 | 0.71 | 2.00 | 8.2 | 36.0 | 497 | |
| H43 (8893998) | 23.6 | <0.05 | 3.2 | 0.052 | 1.37 | 18.3 | 32.2 | 0.86 | 506 | 1.56 | 1.38 | 11.0 | 61.6 | 1850 | |
| I1 (8893999) | 20.1 | <0.05 | 1.9 | 0.019 | 1.57 | 8.1 | 12.1 | 0.56 | 278 | 0.40 | 2.15 | 6.2 | 23.4 | 456 | |
| I2 (8894000) | 22.6 | <0.05 | 2.7 | 0.025 | 1.60 | 11.9 | 12.5 | 0.53 | 303 | 1.38 | 2.05 | 6.5 | 21.2 | 782 | |
| I3 (8894001) | 20.4 | <0.05 | 3.0 | 0.027 | 1.68 | 10.6 | 13.6 | 0.47 | 286 | 0.55 | 1.95 | 7.5 | 21.5 | 391 | |
| I4 (8894002) | 21.1 | <0.05 | 3.0 | 0.031 | 1.58 | 14.1 | 19.8 | 0.78 | 384 | 0.77 | 1.80 | 7.2 | 34.6 | 499 | |
| I5 (8894003) | 19.3 | <0.05 | 2.8 | 0.028 | 1.43 | 11.1 | 22.9 | 0.59 | 305 | 0.91 | 1.74 | 6.8 | 31.7 | 446 | |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282584

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 18, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|-------|-----|-------|------|-----------------------------|------|------|-----|------|--------------------|-----|------|-----|--|
| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P | |
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm | |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 | |
| I6 (8894004) | 20.9 | <0.05 | 2.5 | 0.028 | 1.49 | 10.3 | 16.8 | 0.72 | 337 | 0.73 | 1.94 | 6.2 | 36.4 | 427 | |
| I7 (8894005) | 21.5 | <0.05 | 3.9 | 0.030 | 1.57 | 12.4 | 18.9 | 0.70 | 345 | 0.75 | 1.89 | 7.2 | 30.6 | 528 | |
| I8 (8894006) | 23.1 | <0.05 | 2.7 | 0.036 | 1.53 | 12.6 | 26.1 | 0.64 | 309 | 1.14 | 1.71 | 8.5 | 33.4 | 499 | |
| I9 (8894007) | 21.3 | <0.05 | 2.9 | 0.032 | 1.35 | 12.4 | 25.3 | 0.75 | 384 | 1.06 | 1.59 | 7.8 | 37.2 | 522 | |
| I10 (8894008) | 20.3 | <0.05 | 3.5 | 0.033 | 1.44 | 21.6 | 19.5 | 0.69 | 379 | 0.63 | 1.96 | 7.2 | 49.4 | 486 | |
| I11 (8894009) | 19.2 | <0.05 | 3.4 | 0.031 | 1.45 | 14.1 | 18.9 | 0.76 | 390 | 0.67 | 1.88 | 6.4 | 32.1 | 397 | |
| I12 (8894010) | 20.1 | <0.05 | 3.4 | 0.025 | 1.60 | 12.4 | 16.0 | 0.60 | 298 | 0.76 | 2.04 | 7.0 | 22.8 | 221 | |
| I13 (8894011) | 20.0 | <0.05 | 2.2 | 0.023 | 1.65 | 8.7 | 12.9 | 0.61 | 296 | 0.51 | 2.19 | 5.3 | 24.8 | 375 | |

Certified By:

Certificate of Analysis

AGAT WORK ORDER: 17T282584

PROJECT:

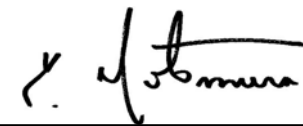
CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 18, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|------|--------|------|------|-----------------------------|-----|-----|-----|------|--------------------|------|------|------|--|
| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl | |
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | |
| RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | 0.01 | |
| G30 (8893940) | 12.3 | 55.5 | <0.002 | 0.04 | 0.16 | 8.3 | 0.9 | 2.0 | 320 | 0.84 | 0.03 | 5.8 | 0.28 | 0.27 | |
| G31 (8893941) | 11.8 | 49.8 | <0.002 | 0.05 | 0.27 | 9.1 | 1.2 | 2.3 | 264 | 0.78 | 0.02 | 4.9 | 0.33 | 0.24 | |
| G32 (8893942) | 11.6 | 61.9 | <0.002 | 0.05 | 0.23 | 10.0 | 1.6 | 1.7 | 276 | 0.71 | 0.02 | 4.3 | 0.28 | 0.29 | |
| G33 (8893943) | 11.1 | 55.2 | <0.002 | 0.04 | 0.13 | 9.6 | 1.0 | 1.8 | 333 | 0.58 | <0.01 | 2.5 | 0.30 | 0.27 | |
| G34 (8893944) | 11.7 | 57.8 | <0.002 | 0.03 | 0.16 | 9.9 | 1.0 | 1.8 | 323 | 0.96 | 0.03 | 10.1 | 0.37 | 0.25 | |
| G35 (8893945) | 10.4 | 54.4 | <0.002 | 0.04 | 0.15 | 7.7 | 1.2 | 1.4 | 280 | 0.52 | 0.02 | 3.7 | 0.25 | 0.26 | |
| G36 (8893946) | 10.5 | 54.8 | <0.002 | 0.04 | 0.24 | 9.1 | 1.4 | 2.1 | 269 | 0.62 | 0.03 | 3.5 | 0.31 | 0.26 | |
| G37 (8893947) | 11.6 | 57.5 | <0.002 | 0.05 | 0.26 | 9.8 | 1.8 | 2.0 | 264 | 0.72 | 0.04 | 3.6 | 0.31 | 0.27 | |
| G38 (8893948) | 12.3 | 64.4 | <0.002 | 0.04 | 0.20 | 9.1 | 1.0 | 2.4 | 292 | 0.60 | 0.02 | 3.9 | 0.28 | 0.30 | |
| G39 (8893949) | 11.5 | 68.5 | <0.002 | 0.03 | 0.18 | 8.2 | 1.3 | 1.6 | 292 | 0.55 | 0.03 | 4.2 | 0.24 | 0.29 | |
| G40 (8893950) | 11.5 | 58.4 | <0.002 | 0.04 | 0.26 | 8.3 | 1.3 | 2.0 | 284 | 0.92 | 0.06 | 4.5 | 0.27 | 0.34 | |
| G41 (8893951) | 12.4 | 54.6 | <0.002 | 0.04 | 0.21 | 8.7 | 1.0 | 2.1 | 288 | 0.76 | 0.03 | 4.1 | 0.31 | 0.31 | |
| G42 (8893952) | 12.3 | 48.3 | <0.002 | 0.04 | 0.21 | 8.8 | 1.5 | 1.9 | 266 | 0.74 | 0.03 | 3.8 | 0.38 | 0.28 | |
| G43 (8893953) | 11.5 | 44.1 | <0.002 | 0.04 | 0.18 | 8.9 | 1.2 | 1.6 | 297 | 0.62 | 0.02 | 3.4 | 0.28 | 0.26 | |
| G44 (8893954) | 19.4 | 43.4 | <0.002 | 0.08 | 0.57 | 9.8 | 1.9 | 2.4 | 248 | 0.64 | 0.12 | 8.6 | 0.35 | 0.25 | |
| G45 (8893955) | 15.9 | 57.2 | <0.002 | 0.04 | 0.44 | 9.4 | 1.7 | 2.4 | 270 | 0.67 | 0.08 | 3.5 | 0.34 | 0.29 | |
| H1 (8893956) | 11.6 | 52.8 | <0.002 | 0.03 | 0.18 | 5.8 | 1.3 | 1.6 | 306 | 0.45 | 0.03 | 1.7 | 0.20 | 0.28 | |
| H2 (8893957) | 11.3 | 51.0 | <0.002 | 0.03 | 0.15 | 7.6 | 1.5 | 1.4 | 322 | 0.48 | 0.04 | 2.1 | 0.21 | 0.26 | |
| H3 (8893958) | 11.1 | 52.7 | <0.002 | 0.02 | 0.10 | 6.8 | 1.0 | 1.2 | 337 | 0.38 | 0.01 | 4.1 | 0.17 | 0.29 | |
| H4 (8893959) | 10.7 | 51.5 | <0.002 | 0.03 | 0.07 | 5.7 | 0.8 | 1.0 | 314 | 0.36 | 0.02 | 2.9 | 0.14 | 0.26 | |
| H5 (8893960) | 11.1 | 51.1 | <0.002 | 0.03 | 0.17 | 6.7 | 1.6 | 1.3 | 326 | 0.39 | 0.05 | 2.6 | 0.19 | 0.27 | |
| H6 (8893961) | 12.1 | 45.0 | <0.002 | 0.04 | 0.24 | 7.1 | 1.1 | 1.4 | 292 | 0.48 | 0.04 | 2.5 | 0.24 | 0.26 | |
| H7 (8893962) | 11.4 | 50.8 | <0.002 | 0.03 | 0.15 | 7.5 | 1.4 | 1.3 | 302 | 0.76 | 0.02 | 3.1 | 0.23 | 0.27 | |
| H8 (8893963) | 12.6 | 49.8 | <0.002 | 0.04 | 0.14 | 7.9 | 1.6 | 1.7 | 288 | 0.55 | 0.06 | 3.7 | 0.27 | 0.28 | |
| H9 (8893964) | 12.6 | 50.6 | <0.002 | 0.04 | 0.23 | 9.6 | 1.9 | 2.1 | 232 | 0.65 | 0.06 | 4.7 | 0.35 | 0.29 | |
| H10 (8893965) | 12.0 | 47.6 | <0.002 | 0.04 | 0.18 | 8.8 | 1.4 | 1.8 | 290 | 0.56 | 0.02 | 3.2 | 0.32 | 0.24 | |
| H11 (8893966) | 11.7 | 46.4 | <0.002 | 0.04 | 0.14 | 7.6 | 1.7 | 1.5 | 300 | 0.47 | 0.05 | 6.0 | 0.25 | 0.27 | |
| H12 (8893967) | 10.3 | 49.8 | <0.002 | 0.03 | 0.10 | 6.3 | 1.4 | 1.1 | 312 | 0.34 | 0.03 | 1.7 | 0.17 | 0.26 | |
| H13 (8893968) | 11.3 | 49.4 | <0.002 | 0.03 | 0.14 | 7.7 | 1.2 | 1.6 | 311 | 0.64 | 0.03 | 3.9 | 0.27 | 0.27 | |
| H14 (8893969) | 11.1 | 49.6 | <0.002 | 0.03 | 0.12 | 7.9 | 1.3 | 1.3 | 345 | 0.41 | 0.03 | 4.3 | 0.22 | 0.24 | |
| H15 (8893970) | 12.4 | 48.9 | <0.002 | 0.03 | 0.16 | 8.3 | 1.4 | 1.7 | 283 | 0.51 | 0.03 | 4.7 | 0.28 | 0.28 | |
| H16 (8893971) | 10.7 | 51.4 | <0.002 | 0.03 | 0.22 | 10.1 | 1.5 | 1.7 | 246 | 0.55 | 0.03 | 4.4 | 0.34 | 0.28 | |

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 17T282584

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 18, 2018

SAMPLE TYPE: Other

| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl |
|---------------|------|------|--------|------|------|------|-----|-----|-----|------|-------|-----|------|------|
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm |
| RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | 0.01 |
| H17 (8893972) | 13.1 | 46.9 | <0.002 | 0.06 | 0.47 | 10.5 | 2.0 | 2.3 | 192 | 1.01 | 0.15 | 5.8 | 0.34 | 0.31 |
| H18 (8893973) | 10.8 | 49.6 | <0.002 | 0.03 | 0.14 | 8.9 | 1.3 | 1.6 | 364 | 0.66 | 0.04 | 4.8 | 0.27 | 0.27 |
| H19 (8893974) | 13.4 | 46.2 | <0.002 | 0.05 | 0.24 | 9.4 | 1.8 | 1.8 | 245 | 0.63 | 0.06 | 5.8 | 0.30 | 0.27 |
| H20 (8893975) | 11.0 | 49.5 | <0.002 | 0.03 | 0.12 | 7.4 | 1.2 | 1.4 | 336 | 0.51 | 0.04 | 2.4 | 0.26 | 0.30 |
| H21 (8893976) | 14.0 | 44.7 | <0.002 | 0.06 | 0.33 | 10.2 | 2.4 | 2.3 | 182 | 0.68 | 0.07 | 4.7 | 0.37 | 0.28 |
| H22 (8893977) | 13.6 | 52.7 | <0.002 | 0.04 | 0.14 | 7.5 | 2.0 | 2.0 | 275 | 0.60 | 0.02 | 3.6 | 0.33 | 0.29 |
| H23 (8893978) | 12.2 | 46.7 | <0.002 | 0.04 | 0.18 | 8.1 | 2.1 | 1.7 | 302 | 0.77 | 0.04 | 4.9 | 0.22 | 0.25 |
| H24 (8893979) | 11.9 | 46.9 | <0.002 | 0.07 | 0.09 | 7.5 | 1.4 | 1.4 | 309 | 0.46 | 0.04 | 2.9 | 0.24 | 0.27 |
| H25 (8893980) | 11.4 | 43.8 | <0.002 | 0.03 | 0.10 | 8.3 | 1.4 | 1.6 | 331 | 0.47 | 0.02 | 4.5 | 0.26 | 0.23 |
| H26 (8893981) | 11.4 | 46.5 | <0.002 | 0.04 | 0.10 | 8.2 | 1.7 | 1.4 | 301 | 0.49 | 0.03 | 6.5 | 0.27 | 0.25 |
| H27 (8893982) | 13.5 | 43.2 | <0.002 | 0.04 | 0.30 | 7.0 | 2.1 | 2.2 | 212 | 0.61 | 0.06 | 4.5 | 0.35 | 0.25 |
| H28 (8893983) | 11.1 | 44.2 | <0.002 | 0.03 | 0.17 | 7.3 | 1.4 | 1.5 | 282 | 0.45 | <0.01 | 5.1 | 0.28 | 0.26 |
| H29 (8893984) | 10.5 | 47.9 | <0.002 | 0.04 | 0.11 | 8.3 | 1.5 | 1.4 | 304 | 0.46 | 0.03 | 2.6 | 0.25 | 0.26 |
| H30 (8893985) | 11.7 | 50.3 | <0.002 | 0.03 | 0.09 | 8.6 | 1.8 | 1.3 | 323 | 0.46 | <0.01 | 5.6 | 0.25 | 0.26 |
| H31 (8893986) | 11.9 | 52.0 | <0.002 | 0.03 | 0.11 | 8.7 | 1.6 | 1.5 | 314 | 0.51 | 0.01 | 4.0 | 0.27 | 0.28 |
| H32 (8893987) | 11.1 | 46.0 | <0.002 | 0.04 | 0.16 | 9.1 | 1.8 | 1.5 | 267 | 0.58 | 0.03 | 3.1 | 0.32 | 0.27 |
| H33 (8893988) | 12.2 | 48.7 | <0.002 | 0.03 | 0.13 | 9.6 | 1.6 | 1.5 | 276 | 0.54 | 0.03 | 5.9 | 0.34 | 0.26 |
| H34 (8893989) | 12.3 | 50.4 | <0.002 | 0.04 | 0.16 | 10.5 | 2.0 | 2.6 | 273 | 1.39 | 0.04 | 6.6 | 0.41 | 0.25 |
| H35 (8893990) | 12.9 | 50.9 | <0.002 | 0.04 | 0.21 | 11.1 | 1.9 | 1.8 | 260 | 0.58 | 0.05 | 5.2 | 0.39 | 0.28 |
| H36 (8893991) | 12.0 | 50.6 | <0.002 | 0.06 | 0.40 | 10.0 | 2.0 | 2.1 | 224 | 1.04 | 0.17 | 6.7 | 0.36 | 0.29 |
| H37 (8893992) | 12.6 | 51.5 | <0.002 | 0.05 | 0.34 | 10.0 | 2.0 | 2.0 | 268 | 0.66 | 0.09 | 4.0 | 0.37 | 0.26 |
| H38 (8893993) | 11.3 | 49.6 | <0.002 | 0.05 | 0.17 | 10.4 | 1.9 | 1.7 | 266 | 0.65 | 0.03 | 3.5 | 0.42 | 0.26 |
| H39 (8893994) | 12.2 | 53.9 | <0.002 | 0.04 | 0.12 | 9.5 | 1.6 | 1.7 | 303 | 0.64 | 0.04 | 5.5 | 0.31 | 0.29 |
| H40 (8893995) | 12.1 | 53.3 | <0.002 | 0.03 | 0.14 | 7.7 | 1.3 | 1.3 | 312 | 0.59 | 0.03 | 5.1 | 0.22 | 0.28 |
| H41 (8893996) | 11.5 | 51.7 | <0.002 | 0.03 | 0.13 | 7.7 | 1.4 | 1.4 | 301 | 0.56 | 0.02 | 3.3 | 0.26 | 0.26 |
| H42 (8893997) | 12.7 | 45.6 | <0.002 | 0.04 | 0.13 | 9.3 | 1.5 | 1.7 | 293 | 0.73 | 0.04 | 5.8 | 0.29 | 0.26 |
| H43 (8893998) | 20.7 | 48.3 | <0.002 | 0.07 | 0.43 | 9.8 | 2.3 | 2.5 | 215 | 0.73 | 0.13 | 7.2 | 0.48 | 0.24 |
| I1 (8893999) | 11.0 | 49.1 | <0.002 | 0.04 | 0.10 | 7.0 | 1.4 | 1.3 | 310 | 0.43 | 0.02 | 2.1 | 0.20 | 0.27 |
| I2 (8894000) | 15.2 | 49.8 | <0.002 | 0.03 | 0.16 | 7.0 | 1.4 | 1.6 | 305 | 0.44 | 0.03 | 3.8 | 0.24 | 0.26 |
| I3 (8894001) | 12.3 | 49.7 | <0.002 | 0.03 | 0.15 | 7.5 | 1.3 | 1.6 | 291 | 0.56 | 0.03 | 3.0 | 0.27 | 0.26 |
| I4 (8894002) | 13.5 | 57.3 | <0.002 | 0.03 | 0.27 | 10.7 | 1.5 | 1.7 | 221 | 0.54 | 0.03 | 5.3 | 0.29 | 0.31 |
| I5 (8894003) | 12.9 | 46.0 | <0.002 | 0.04 | 0.20 | 8.8 | 1.8 | 1.7 | 234 | 0.53 | 0.03 | 3.4 | 0.27 | 0.26 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282584

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 18, 2018

SAMPLE TYPE: Other

| Sample ID (AGAT ID) | Analyte: Unit: RDL: | Pb ppm 0.1 | Rb ppm 0.1 | Re ppm 0.002 | S % 0.01 | Sb ppm 0.05 | Sc ppm 0.1 | Se ppm 0.5 | Sn ppm 0.2 | Sr ppm 0.2 | Ta ppm 0.05 | Te ppm 0.01 | Th ppm 0.1 | Ti % 0.01 | Tl ppm 0.01 |
|---------------------|---------------------------|------------------|------------------|--------------------|----------------|-------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|------------------|-----------------|-------------------|
| I6 (8894004) | | 12.3 | 51.3 | <0.002 | 0.03 | 0.17 | 8.7 | 1.7 | 1.5 | 274 | 0.46 | 0.04 | 3.1 | 0.24 | 0.28 |
| I7 (8894005) | | 12.5 | 52.5 | <0.002 | 0.03 | 0.15 | 9.4 | 1.3 | 1.6 | 258 | 0.51 | 0.04 | 4.4 | 0.29 | 0.28 |
| I8 (8894006) | | 13.1 | 50.9 | <0.002 | 0.05 | 0.27 | 8.7 | 1.8 | 1.8 | 256 | 0.54 | 0.03 | 4.1 | 0.31 | 0.30 |
| I9 (8894007) | | 13.6 | 49.7 | <0.002 | 0.05 | 0.26 | 10.4 | 2.1 | 1.8 | 200 | 0.53 | 0.05 | 4.9 | 0.32 | 0.29 |
| I10 (8894008) | | 13.9 | 43.7 | <0.002 | 0.05 | 0.17 | 11.6 | 1.8 | 1.4 | 287 | 0.48 | 0.04 | 5.0 | 0.26 | 0.28 |
| I11 (8894009) | | 12.8 | 47.6 | <0.002 | 0.05 | 0.19 | 9.7 | 1.7 | 1.4 | 248 | 0.48 | 0.03 | 6.4 | 0.28 | 0.28 |
| I12 (8894010) | | 12.4 | 43.8 | <0.002 | 0.04 | 0.20 | 8.5 | 1.4 | 1.6 | 296 | 0.46 | 0.03 | 4.3 | 0.28 | 0.26 |
| I13 (8894011) | | 11.3 | 51.8 | <0.002 | 0.03 | 0.13 | 7.5 | 1.2 | 1.3 | 324 | 0.37 | 0.01 | 13.5 | 0.22 | 0.26 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282584

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 18, 2018

SAMPLE TYPE: Other

| Analyte: | U | V | W | Y | Zn | Zr |
|---------------|-------|------|-----|------|------|------|
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm |
| RDL: | 0.005 | 0.5 | 0.1 | 0.1 | 0.5 | 0.5 |
| G30 (8893940) | 0.860 | 62.4 | 0.5 | 13.5 | 43.7 | 172 |
| G31 (8893941) | 0.832 | 83.1 | 0.6 | 12.7 | 42.1 | 159 |
| G32 (8893942) | 0.946 | 62.3 | 0.5 | 16.3 | 39.0 | 163 |
| G33 (8893943) | 0.620 | 74.0 | 0.4 | 14.2 | 32.2 | 122 |
| G34 (8893944) | 0.841 | 82.6 | 0.4 | 14.1 | 35.6 | 206 |
| G35 (8893945) | 0.679 | 59.4 | 0.3 | 10.3 | 38.8 | 153 |
| G36 (8893946) | 0.895 | 65.5 | 0.5 | 12.4 | 63.5 | 174 |
| G37 (8893947) | 0.906 | 78.0 | 0.5 | 13.6 | 88.8 | 173 |
| G38 (8893948) | 0.767 | 60.7 | 0.4 | 12.0 | 43.9 | 173 |
| G39 (8893949) | 0.734 | 54.9 | 0.4 | 11.4 | 31.0 | 128 |
| G40 (8893950) | 0.763 | 53.1 | 0.5 | 11.9 | 35.9 | 164 |
| G41 (8893951) | 0.817 | 72.8 | 0.5 | 12.4 | 50.1 | 159 |
| G42 (8893952) | 0.894 | 71.1 | 0.5 | 13.1 | 93.3 | 174 |
| G43 (8893953) | 0.800 | 63.7 | 0.4 | 12.7 | 64.7 | 178 |
| G44 (8893954) | 1.11 | 85.7 | 0.5 | 16.0 | 66.6 | 108 |
| G45 (8893955) | 0.999 | 69.5 | 0.6 | 13.7 | 139 | 202 |
| H1 (8893956) | 0.444 | 49.9 | 0.5 | 7.7 | 32.3 | 88.0 |
| H2 (8893957) | 0.543 | 55.5 | 0.3 | 10.2 | 28.7 | 121 |
| H3 (8893958) | 0.713 | 41.3 | 0.2 | 12.3 | 23.0 | 127 |
| H4 (8893959) | 0.392 | 39.6 | 0.2 | 7.1 | 23.4 | 73.1 |
| H5 (8893960) | 0.433 | 46.0 | 0.2 | 10.7 | 27.8 | 82.9 |
| H6 (8893961) | 0.594 | 58.6 | 0.3 | 9.2 | 33.3 | 131 |
| H7 (8893962) | 0.642 | 53.0 | 0.3 | 11.1 | 40.7 | 150 |
| H8 (8893963) | 0.899 | 60.2 | 0.4 | 11.7 | 40.6 | 189 |
| H9 (8893964) | 1.26 | 82.7 | 0.7 | 13.9 | 41.8 | 196 |
| H10 (8893965) | 0.879 | 85.0 | 0.4 | 15.4 | 33.6 | 192 |
| H11 (8893966) | 0.974 | 53.8 | 0.4 | 13.6 | 37.1 | 144 |
| H12 (8893967) | 0.500 | 42.9 | 0.2 | 9.7 | 18.8 | 75.8 |
| H13 (8893968) | 0.838 | 53.4 | 0.4 | 12.2 | 25.4 | 186 |
| H14 (8893969) | 0.658 | 56.4 | 0.3 | 13.8 | 26.4 | 136 |
| H15 (8893970) | 1.00 | 63.9 | 0.4 | 13.3 | 36.2 | 217 |
| H16 (8893971) | 1.12 | 77.1 | 0.5 | 14.5 | 35.9 | 184 |

Certified By:

Certificate of Analysis

AGAT WORK ORDER: 17T282584

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 18, 2018

SAMPLE TYPE: Other

| Analyte: | U | V | W | Y | Zn | Zr |
|---------------|-------|------|-----|------|------|------|
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm |
| RDL: | 0.005 | 0.5 | 0.1 | 0.1 | 0.5 | 0.5 |
| H17 (8893972) | 1.37 | 92.5 | 0.8 | 15.9 | 45.0 | 186 |
| H18 (8893973) | 0.996 | 53.1 | 0.3 | 14.8 | 27.1 | 187 |
| H19 (8893974) | 1.11 | 71.9 | 0.5 | 14.8 | 45.7 | 195 |
| H20 (8893975) | 0.621 | 47.3 | 0.3 | 10.7 | 23.6 | 146 |
| H21 (8893976) | 1.39 | 110 | 0.8 | 14.4 | 46.7 | 188 |
| H22 (8893977) | 0.870 | 69.6 | 0.4 | 11.6 | 38.9 | 181 |
| H23 (8893978) | 0.878 | 58.5 | 0.3 | 15.0 | 43.6 | 129 |
| H24 (8893979) | 0.686 | 59.7 | 0.3 | 9.5 | 28.0 | 141 |
| H25 (8893980) | 0.611 | 65.6 | 0.2 | 12.0 | 29.0 | 127 |
| H26 (8893981) | 0.811 | 63.0 | 0.3 | 12.6 | 38.2 | 142 |
| H27 (8893982) | 1.12 | 64.2 | 0.6 | 10.9 | 40.7 | 217 |
| H28 (8893983) | 0.853 | 55.8 | 0.4 | 10.2 | 37.3 | 177 |
| H29 (8893984) | 0.664 | 60.7 | 0.3 | 11.2 | 44.6 | 161 |
| H30 (8893985) | 0.746 | 66.7 | 0.3 | 12.9 | 30.5 | 137 |
| H31 (8893986) | 0.824 | 59.2 | 0.4 | 12.7 | 34.9 | 172 |
| H32 (8893987) | 0.809 | 77.2 | 0.4 | 12.4 | 49.5 | 183 |
| H33 (8893988) | 0.863 | 86.0 | 0.4 | 14.6 | 34.5 | 192 |
| H34 (8893989) | 0.979 | 92.0 | 0.4 | 16.7 | 46.8 | 194 |
| H35 (8893990) | 1.09 | 93.6 | 0.5 | 16.3 | 59.2 | 206 |
| H36 (8893991) | 1.20 | 87.3 | 0.8 | 14.0 | 78.7 | 188 |
| H37 (8893992) | 0.996 | 91.8 | 0.5 | 13.4 | 99.0 | 174 |
| H38 (8893993) | 0.831 | 105 | 0.5 | 14.4 | 51.0 | 130 |
| H39 (8893994) | 0.954 | 70.1 | 0.4 | 16.4 | 43.0 | 198 |
| H40 (8893995) | 0.796 | 58.3 | 0.4 | 13.2 | 25.7 | 163 |
| H41 (8893996) | 0.689 | 55.8 | 0.3 | 10.7 | 51.7 | 131 |
| H42 (8893997) | 0.856 | 72.7 | 0.4 | 14.3 | 41.0 | 230 |
| H43 (8893998) | 1.30 | 107 | 0.6 | 16.7 | 85.1 | 167 |
| I1 (8893999) | 0.510 | 49.8 | 0.3 | 9.8 | 36.3 | 98.6 |
| I2 (8894000) | 0.635 | 54.8 | 0.4 | 10.7 | 39.9 | 139 |
| I3 (8894001) | 0.725 | 54.1 | 0.4 | 11.1 | 39.7 | 153 |
| I4 (8894002) | 1.27 | 74.6 | 0.6 | 15.9 | 48.6 | 155 |
| I5 (8894003) | 0.915 | 66.9 | 0.5 | 11.3 | 41.7 | 147 |

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 17T282584

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | DATE REPORTED: Jan 18, 2018 | | SAMPLE TYPE: Other |
|----------------------------|-----------------------------|------|-----|------|-----------------------------|-----|--------------------|
| Analyte: | U | V | W | Y | Zn | Zr | |
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm | |
| Sample ID (AGAT ID) | RDL: | | | | | | |
| I6 (8894004) | 0.774 | 64.6 | 0.4 | 12.1 | 34.2 | 134 | |
| I7 (8894005) | 1.04 | 70.7 | 0.5 | 12.3 | 41.1 | 200 | |
| I8 (8894006) | 1.02 | 76.8 | 0.5 | 11.5 | 53.8 | 142 | |
| I9 (8894007) | 1.19 | 86.7 | 0.9 | 13.7 | 53.4 | 157 | |
| I10 (8894008) | 1.20 | 70.5 | 0.4 | 25.0 | 43.5 | 175 | |
| I11 (8894009) | 1.04 | 74.1 | 0.4 | 11.5 | 44.1 | 175 | |
| I12 (8894010) | 0.884 | 61.8 | 0.4 | 10.6 | 31.5 | 174 | |
| I13 (8894011) | 0.767 | 54.1 | 0.3 | 11.8 | 32.5 | 116 | |

Comments: RDL - Reported Detection Limit
 8893940-8894011 As, Sb values may be low due to digestion losses.

Certified By:



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| Parameter | REPLICATE #1 | | | | REPLICATE #2 | | | | REPLICATE #3 | | | | REPLICATE #4 | | | |
|-----------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|
| | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD |
| Ag | 8893940 | 0.19 | 0.17 | 11.1% | 8893957 | 0.14 | 0.12 | 15.4% | 8893974 | 0.25 | 0.24 | 4.1% | 8893991 | 0.507 | 0.469 | 7.8% |
| Al | 8893940 | 6.98 | 6.94 | 0.6% | 8893957 | 6.87 | 6.84 | 0.4% | 8893974 | 6.87 | 6.90 | 0.4% | 8893991 | 7.81 | 7.34 | 6.2% |
| As | 8893940 | 4.1 | 3.1 | | 8893957 | 2.4 | 1.1 | | 8893974 | 6.6 | 7.0 | 5.9% | 8893991 | 7.4 | 4.5 | |
| Ba | 8893940 | 509 | 513 | 0.8% | 8893957 | 476 | 498 | 4.5% | 8893974 | 425 | 430 | 1.2% | 8893991 | 474 | 452 | 4.8% |
| Be | 8893940 | 1.29 | 1.16 | 10.6% | 8893957 | 1.36 | 1.30 | 4.5% | 8893974 | 1.32 | 1.35 | 2.2% | 8893991 | 1.55 | 1.44 | 7.4% |
| Bi | 8893940 | 0.099 | 0.091 | 8.4% | 8893957 | 0.085 | 0.070 | 19.4% | 8893974 | 0.173 | 0.155 | 11.0% | 8893991 | 0.177 | 0.171 | 3.4% |
| Ca | 8893940 | 1.47 | 1.47 | 0.0% | 8893957 | 1.50 | 1.43 | 4.8% | 8893974 | 1.43 | 1.42 | 0.7% | 8893991 | 1.26 | 1.25 | 0.8% |
| Cd | 8893940 | 0.08 | 0.08 | 0.0% | 8893957 | 0.05 | 0.05 | 0.0% | 8893974 | 0.09 | 0.09 | 0.0% | 8893991 | 0.083 | 0.093 | 11.4% |
| Ce | 8893940 | 36.1 | 31.3 | 14.2% | 8893957 | 16.3 | 14.7 | 10.3% | 8893974 | 29.3 | 25.9 | 12.3% | 8893991 | 29.9 | 24.0 | 21.9% |
| Co | 8893940 | 10.7 | 10.3 | 3.8% | 8893957 | 13.3 | 11.4 | 15.4% | 8893974 | 19.1 | 18.4 | 3.7% | 8893991 | 24.4 | 23.7 | 2.9% |
| Cr | 8893940 | 60.4 | 57.9 | 4.2% | 8893957 | 53.8 | 44.6 | 18.7% | 8893974 | 74.0 | 74.1 | 0.1% | 8893991 | 84.9 | 81.4 | 4.2% |
| Cs | 8893940 | 1.29 | 1.23 | 4.8% | 8893957 | 1.48 | 1.37 | 7.7% | 8893974 | 2.03 | 1.97 | 3.0% | 8893991 | 2.35 | 2.24 | 4.8% |
| Cu | 8893940 | 3.61 | 3.54 | 2.0% | 8893957 | 4.96 | 4.74 | 4.5% | 8893974 | 16.3 | 16.1 | 1.2% | 8893991 | 14.2 | 12.9 | 9.6% |
| Fe | 8893940 | 2.37 | 2.35 | 0.8% | 8893957 | 2.24 | 1.89 | 16.9% | 8893974 | 3.41 | 3.43 | 0.6% | 8893991 | 3.62 | 3.46 | 4.5% |
| Ga | 8893940 | 19.5 | 18.5 | 5.3% | 8893957 | 19.2 | 18.9 | 1.6% | 8893974 | 21.0 | 20.3 | 3.4% | 8893991 | 22.4 | 22.0 | 1.8% |
| Ge | 8893940 | < 0.05 | < 0.05 | 0.0% | 8893957 | < 0.05 | < 0.05 | 0.0% | 8893974 | < 0.05 | < 0.05 | 0.0% | 8893991 | < 0.05 | < 0.05 | 0.0% |
| Hf | 8893940 | 3.5 | 3.2 | 9.0% | 8893957 | 2.2 | 1.6 | | 8893974 | 3.7 | 3.4 | 8.5% | 8893991 | 4.1 | 3.4 | |
| In | 8893940 | 0.0307 | 0.0301 | 2.0% | 8893957 | 0.0268 | 0.0221 | 19.2% | 8893974 | 0.038 | 0.034 | 11.1% | 8893991 | 0.040 | 0.040 | 0.0% |
| K | 8893940 | 1.62 | 1.61 | 0.6% | 8893957 | 1.57 | 1.64 | 4.4% | 8893974 | 1.40 | 1.41 | 0.7% | 8893991 | 1.57 | 1.47 | 6.6% |
| La | 8893940 | 16.9 | 14.2 | 17.4% | 8893957 | 7.92 | 7.24 | 9.0% | 8893974 | 13.3 | 11.7 | 12.8% | 8893991 | 15.2 | 12.1 | 22.7% |
| Li | 8893940 | 14.7 | 14.9 | 1.4% | 8893957 | 14.9 | 14.0 | 6.2% | 8893974 | 21.8 | 21.7 | 0.5% | 8893991 | 26.6 | 25.4 | 4.6% |
| Mg | 8893940 | 0.59 | 0.58 | 1.7% | 8893957 | 0.686 | 0.647 | 5.9% | 8893974 | 0.73 | 0.73 | 0.0% | 8893991 | 0.811 | 0.792 | 2.4% |
| Mn | 8893940 | 342 | 332 | 3.0% | 8893957 | 344 | 285 | 18.8% | 8893974 | 366 | 367 | 0.3% | 8893991 | 386 | 392 | 1.5% |
| Mo | 8893940 | 0.587 | 0.550 | 6.5% | 8893957 | 0.45 | 0.39 | 14.3% | 8893974 | 0.91 | 0.88 | 3.4% | 8893991 | 1.18 | 1.00 | 16.5% |
| Na | 8893940 | 2.07 | 2.09 | 1.0% | 8893957 | 2.14 | 2.23 | 4.1% | 8893974 | 1.76 | 1.77 | 0.6% | 8893991 | 1.51 | 1.48 | 2.0% |
| Nb | 8893940 | 9.0 | 8.0 | 11.8% | 8893957 | 5.5 | 5.0 | 9.5% | 8893974 | 8.21 | 7.52 | 8.8% | 8893991 | 11.0 | 11.0 | 0.0% |
| Ni | 8893940 | 22.9 | 22.0 | 4.0% | 8893957 | 28.5 | 25.7 | 10.3% | 8893974 | 31.0 | 31.7 | 2.2% | 8893991 | 45.9 | 44.6 | 2.9% |
| P | 8893940 | 466 | 463 | 0.6% | 8893957 | 507 | 441 | 13.9% | 8893974 | 398 | 428 | 7.3% | 8893991 | 1040 | 981 | 5.8% |
| Pb | 8893940 | 12.3 | 11.9 | 3.3% | 8893957 | 11.3 | 10.8 | 4.5% | 8893974 | 13.4 | 12.9 | 3.8% | 8893991 | 12.0 | 11.0 | 8.7% |
| Rb | 8893940 | 55.5 | 52.8 | 5.0% | 8893957 | 51.0 | 51.0 | 0.0% | 8893974 | 46.2 | 44.7 | 3.3% | 8893991 | 50.6 | 47.0 | 7.4% |
| Re | 8893940 | < 0.002 | < 0.002 | 0.0% | 8893957 | < 0.002 | < 0.002 | 0.0% | 8893974 | < 0.002 | < 0.002 | 0.0% | 8893991 | < 0.002 | < 0.002 | 0.0% |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

| | | | | | | | | | | | | | | | | |
|----|---------|-------|-------|-------|---------|-------|-------|-------|---------|-------|-------|-------|---------|-------|-------|-------|
| S | 8893940 | 0.04 | 0.04 | 0.0% | 8893957 | 0.03 | 0.03 | 0.0% | 8893974 | 0.05 | 0.05 | 0.0% | 8893991 | 0.058 | 0.053 | 9.0% |
| Sb | 8893940 | 0.16 | 0.16 | 0.0% | 8893957 | 0.148 | 0.122 | 19.3% | 8893974 | 0.24 | 0.24 | 0.0% | 8893991 | 0.40 | 0.36 | 10.5% |
| Sc | 8893940 | 8.3 | 8.2 | 1.2% | 8893957 | 7.59 | 6.54 | 14.9% | 8893974 | 9.4 | 9.6 | 2.1% | 8893991 | 10.0 | 10.2 | 2.0% |
| Se | 8893940 | 0.92 | 0.98 | 6.3% | 8893957 | 1.46 | 1.10 | 28.1% | 8893974 | 1.84 | 1.54 | 17.8% | 8893991 | 2.03 | 2.12 | 4.3% |
| Sn | 8893940 | 2.0 | 1.7 | 16.2% | 8893957 | 1.4 | 1.3 | 7.4% | 8893974 | 1.8 | 1.7 | 5.7% | 8893991 | 2.1 | 2.0 | 4.9% |
| Sr | 8893940 | 320 | 311 | 2.9% | 8893957 | 322 | 337 | 4.6% | 8893974 | 245 | 242 | 1.2% | 8893991 | 224 | 222 | 0.9% |
| Ta | 8893940 | 0.84 | 0.65 | 25.5% | 8893957 | 0.48 | 0.43 | 11.0% | 8893974 | 0.626 | 0.609 | 2.8% | 8893991 | 1.04 | 1.20 | 14.3% |
| Te | 8893940 | 0.026 | 0.025 | 3.9% | 8893957 | 0.04 | 0.02 | | 8893974 | 0.06 | 0.04 | | 8893991 | 0.17 | 0.12 | |
| Th | 8893940 | 5.8 | 4.8 | 18.9% | 8893957 | 2.1 | 1.7 | 21.1% | 8893974 | 5.8 | 5.0 | 14.8% | 8893991 | 6.7 | 5.9 | 12.7% |
| Ti | 8893940 | 0.280 | 0.274 | 2.2% | 8893957 | 0.21 | 0.18 | 15.4% | 8893974 | 0.30 | 0.30 | 0.0% | 8893991 | 0.356 | 0.347 | 2.6% |
| Tl | 8893940 | 0.27 | 0.27 | 0.0% | 8893957 | 0.261 | 0.266 | 1.9% | 8893974 | 0.27 | 0.27 | 0.0% | 8893991 | 0.290 | 0.255 | 12.8% |
| U | 8893940 | 0.860 | 0.752 | 13.4% | 8893957 | 0.543 | 0.471 | 14.2% | 8893974 | 1.11 | 1.07 | 3.7% | 8893991 | 1.20 | 1.13 | 6.0% |
| V | 8893940 | 62.4 | 62.0 | 0.6% | 8893957 | 55.5 | 47.2 | 16.2% | 8893974 | 71.9 | 75.0 | 4.2% | 8893991 | 87.3 | 85.0 | 2.7% |
| W | 8893940 | 0.46 | 0.42 | 9.1% | 8893957 | 0.30 | 0.26 | 14.3% | 8893974 | 0.5 | 0.5 | 0.0% | 8893991 | 0.76 | 0.69 | 9.7% |
| Y | 8893940 | 13.5 | 11.5 | 16.0% | 8893957 | 10.2 | 8.63 | 16.7% | 8893974 | 14.8 | 13.1 | 12.2% | 8893991 | 14.0 | 13.6 | 2.9% |
| Zn | 8893940 | 43.7 | 43.2 | 1.2% | 8893957 | 28.7 | 25.1 | 13.4% | 8893974 | 45.7 | 46.6 | 2.0% | 8893991 | 78.7 | 73.4 | 7.0% |
| Zr | 8893940 | 172 | 161 | 6.6% | 8893957 | 121 | 55.5 | | 8893974 | 195 | 179 | 8.6% | 8893991 | 188 | 148 | 23.8% |

REPLICATE #5

| Parameter | Sample ID | Original | Replicate | RPD | | | | | | | | | | | | |
|-----------|-----------|----------|-----------|------|--|--|--|--|--|--|--|--|--|--|--|--|
| Ag | 8894008 | 0.40 | 0.25 | | | | | | | | | | | | | |
| Al | 8894008 | 7.75 | 7.59 | 2.1% | | | | | | | | | | | | |
| As | 8894008 | 5.96 | 5.41 | 9.7% | | | | | | | | | | | | |
| Ba | 8894008 | 490 | 487 | 0.6% | | | | | | | | | | | | |
| Be | 8894008 | 1.68 | 1.70 | 1.2% | | | | | | | | | | | | |
| Bi | 8894008 | 0.12 | 0.12 | 0.0% | | | | | | | | | | | | |
| Ca | 8894008 | 1.46 | 1.44 | 1.4% | | | | | | | | | | | | |
| Cd | 8894008 | 0.06 | 0.06 | 0.0% | | | | | | | | | | | | |
| Ce | 8894008 | 116 | 119 | 2.6% | | | | | | | | | | | | |
| Co | 8894008 | 36.4 | 35.4 | 2.8% | | | | | | | | | | | | |
| Cr | 8894008 | 78.1 | 81.1 | 3.8% | | | | | | | | | | | | |
| Cs | 8894008 | 1.57 | 1.54 | 1.9% | | | | | | | | | | | | |
| Cu | 8894008 | 30.5 | 29.8 | 2.3% | | | | | | | | | | | | |
| Fe | 8894008 | 2.77 | 2.78 | 0.4% | | | | | | | | | | | | |
| Ga | 8894008 | 20.3 | 20.2 | 0.5% | | | | | | | | | | | | |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

| | | | | | | | | | | | | | | | | | | | |
|----|---------|---------|---------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Ge | 8894008 | < 0.05 | < 0.05 | 0.0% | | | | | | | | | | | | | | | |
| Hf | 8894008 | 3.50 | 3.23 | 8.0% | | | | | | | | | | | | | | | |
| In | 8894008 | 0.033 | 0.030 | 9.5% | | | | | | | | | | | | | | | |
| K | 8894008 | 1.44 | 1.45 | 0.7% | | | | | | | | | | | | | | | |
| La | 8894008 | 21.6 | 23.8 | 9.7% | | | | | | | | | | | | | | | |
| Li | 8894008 | 19.5 | 18.6 | 4.7% | | | | | | | | | | | | | | | |
| Mg | 8894008 | 0.690 | 0.697 | 1.0% | | | | | | | | | | | | | | | |
| Mn | 8894008 | 379 | 379 | 0.0% | | | | | | | | | | | | | | | |
| Mo | 8894008 | 0.63 | 0.62 | 1.6% | | | | | | | | | | | | | | | |
| Na | 8894008 | 1.96 | 1.94 | 1.0% | | | | | | | | | | | | | | | |
| Nb | 8894008 | 7.2 | 6.9 | 4.3% | | | | | | | | | | | | | | | |
| Ni | 8894008 | 49.4 | 48.1 | 2.7% | | | | | | | | | | | | | | | |
| P | 8894008 | 486 | 474 | 2.5% | | | | | | | | | | | | | | | |
| Pb | 8894008 | 13.9 | 13.7 | 1.4% | | | | | | | | | | | | | | | |
| Rb | 8894008 | 43.7 | 44.0 | 0.7% | | | | | | | | | | | | | | | |
| Re | 8894008 | < 0.002 | < 0.002 | 0.0% | | | | | | | | | | | | | | | |
| S | 8894008 | 0.05 | 0.05 | 0.0% | | | | | | | | | | | | | | | |
| Sb | 8894008 | 0.17 | 0.14 | 19.4% | | | | | | | | | | | | | | | |
| Sc | 8894008 | 11.6 | 11.4 | 1.7% | | | | | | | | | | | | | | | |
| Se | 8894008 | 1.78 | 2.26 | 23.8% | | | | | | | | | | | | | | | |
| Sn | 8894008 | 1.43 | 1.48 | 3.4% | | | | | | | | | | | | | | | |
| Sr | 8894008 | 287 | 297 | 3.4% | | | | | | | | | | | | | | | |
| Ta | 8894008 | 0.48 | 0.52 | 8.0% | | | | | | | | | | | | | | | |
| Te | 8894008 | 0.04 | 0.02 | | | | | | | | | | | | | | | | |
| Th | 8894008 | 5.0 | 7.6 | | | | | | | | | | | | | | | | |
| Ti | 8894008 | 0.26 | 0.26 | 0.0% | | | | | | | | | | | | | | | |
| Tl | 8894008 | 0.28 | 0.27 | 3.6% | | | | | | | | | | | | | | | |
| U | 8894008 | 1.20 | 1.26 | 4.9% | | | | | | | | | | | | | | | |
| V | 8894008 | 70.5 | 69.0 | 2.2% | | | | | | | | | | | | | | | |
| W | 8894008 | 0.4 | 0.4 | 0.0% | | | | | | | | | | | | | | | |
| Y | 8894008 | 25.0 | 25.3 | 1.2% | | | | | | | | | | | | | | | |
| Zn | 8894008 | 43.5 | 42.8 | 1.6% | | | | | | | | | | | | | | | |
| Zr | 8894008 | 175 | 158 | 10.2% | | | | | | | | | | | | | | | |

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| Parameter | CRM #1 (ref.SY-4) | | | | CRM #2 (ref.GTS-2A) | | | | CRM #3 (ref.Till-2) | | | | CRM #4 (ref.SY-4) | | | |
|-----------|-------------------|--------|----------|------------|---------------------|--------|----------|------------|---------------------|--------|----------|------------|-------------------|--------|----------|------------|
| | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits |
| Al | 10.95 | 10.98 | 100% | 90% - 110% | 6.96 | 6.86 | 99% | 90% - 110% | 8.17 | 8.8 | 108% | 90% - 110% | 10.95 | 10.77 | 98% | 90% - 110% |
| As | | | | | 124 | 132 | 106% | 90% - 110% | 26 | 28 | 107% | 90% - 110% | | | | |
| Ba | 340 | 329 | 97% | 90% - 110% | 186 | 177 | 95% | 90% - 110% | 540 | 542 | 100% | 90% - 110% | 340 | 327 | 96% | 90% - 110% |
| Be | 2.6 | 2.8 | 107% | 90% - 110% | | | | | 4.0 | 4 | 99% | 90% - 110% | 2.6 | 2.8 | 107% | 90% - 110% |
| Ca | 5.72 | 5.51 | 96% | 90% - 110% | 4.01 | 3.85 | 96% | 90% - 110% | 0.907 | 0.95 | 105% | 90% - 110% | 5.72 | 5.29 | 92% | 90% - 110% |
| Ce | 122 | 135 | 110% | 90% - 110% | 24 | 24 | 102% | 90% - 110% | 98 | 107 | 109% | 90% - 110% | 122 | 123 | 100% | 90% - 110% |
| Co | 2.8 | 3.1 | 110% | 90% - 110% | | | | | | | | | 2.8 | 3.1 | 110% | 90% - 110% |
| Cr | | | | | | | | | 60.3 | 61.3 | 102% | 90% - 110% | | | | |
| Cs | 1.5 | 1.7 | 113% | 90% - 110% | | | | | 12 | 14 | 116% | 90% - 110% | | | | |
| Cu | 7 | 6 | 80% | 90% - 110% | 88.6 | 83.1 | 94% | 90% - 110% | 150 | 154 | 103% | 90% - 110% | | | | |
| Fe | 4.34 | 4 | 92% | 90% - 110% | 7.56 | 7.06 | 93% | 90% - 110% | 3.77 | 3.83 | 101% | 90% - 110% | 4.34 | 3.96 | 91% | 90% - 110% |
| Ga | 35 | 38 | 108% | 90% - 110% | | | | | | | | | | | | |
| K | 1.37 | 1.36 | 99% | 90% - 110% | 2.021 | 1.918 | 95% | 90% - 110% | | | | | 1.37 | 1.38 | 101% | 90% - 110% |
| La | 58 | 62 | 106% | 90% - 110% | | | | | 44 | 43 | 97% | 90% - 110% | 58 | 59 | 102% | 90% - 110% |
| Li | 37 | 38 | 102% | 90% - 110% | | | | | 47 | 48 | 101% | 90% - 110% | 37 | 40 | 108% | 90% - 110% |
| Mg | 0.325 | 0.311 | 96% | 90% - 110% | 2.412 | 2.427 | 101% | 90% - 110% | 1.10 | 1.16 | 106% | 90% - 110% | 0.325 | 0.312 | 96% | 90% - 110% |
| Mn | | | | | 1510 | 1513 | 100% | 90% - 110% | 780 | 804 | 103% | 90% - 110% | | | | |
| Na | 5.267 | 5.151 | 98% | 90% - 110% | 0.617 | 0.596 | 97% | 90% - 110% | 1.624 | 1.699 | 105% | 90% - 110% | 5.267 | 5.139 | 98% | 90% - 110% |
| Nb | | | | | | | | | 20 | 22 | 111% | 90% - 110% | | | | |
| Ni | 9 | 8 | 91% | 90% - 110% | 77.1 | 70.9 | 92% | 90% - 110% | 32 | 34 | 105% | 90% - 110% | 9 | 8 | 85% | 90% - 110% |
| P | | | | | 892 | 937 | 105% | 90% - 110% | | | | | | | | |
| Pb | 10 | 10 | 100% | 90% - 110% | | | | | 31 | 30 | 95% | 90% - 110% | 10 | 9 | 92% | 90% - 110% |
| Rb | 55 | 55 | 100% | 90% - 110% | | | | | 143 | 159 | 111% | 90% - 110% | 55 | 54 | 99% | 90% - 110% |
| S | | | | | 0.348 | 0.38 | 109% | 90% - 110% | | | | | | | | |
| Sb | | | | | | | | | 0.8 | 0.9 | 116% | 90% - 110% | | | | |
| Sc | 1.1 | 0.8 | 73% | 90% - 110% | | | | | 12 | 13 | 107% | 90% - 110% | | | | |
| Sr | 1191 | 1181 | 99% | 90% - 110% | 92.8 | 84.6 | 91% | 90% - 110% | 144 | 149 | 104% | 90% - 110% | 1191 | 1167 | 98% | 90% - 110% |
| Ta | | | | | | | | | 1.9 | 1.8 | 93% | 90% - 110% | | | | |
| Th | | | | | | | | | 18.4 | 17.6 | 95% | 90% - 110% | 1.4 | 1.2 | 85% | 90% - 110% |
| Ti | 0.172 | 0.164 | 95% | 90% - 110% | | | | | 0.53 | 0.47 | 88% | 90% - 110% | 0.172 | 0.167 | 97% | 90% - 110% |
| U | | | | | | | | | 5.7 | 4.4 | 77% | 90% - 110% | | | | |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

| | | | | | | | | | | | | | | | | |
|---------------------|--------|--------|----------|------------|-----|-----|-----|------------|-----|-----|------|------------|----|----|-----|------------|
| V | 8 | 7 | 88% | 90% - 110% | | | | | 77 | 79 | 102% | 90% - 110% | 8 | 7 | 89% | 90% - 110% |
| W | | | | | | | | | 5 | 5 | 100% | 90% - 110% | | | | |
| Y | | | | | | | | | 40 | 33 | 83% | 90% - 110% | | | | |
| Zn | 93 | 90 | 97% | 90% - 110% | 208 | 198 | 95% | 90% - 110% | 130 | 126 | 97% | 90% - 110% | 93 | 88 | 95% | 90% - 110% |
| CRM #5 (ref.GTS-2A) | | | | | | | | | | | | | | | | |
| Parameter | Expect | Actual | Recovery | Limits | | | | | | | | | | | | |
| Al | 6.96 | 7.22 | 104% | 90% - 110% | | | | | | | | | | | | |
| As | 124 | 134 | 108% | 90% - 110% | | | | | | | | | | | | |
| Ba | 186 | 185 | 99% | 90% - 110% | | | | | | | | | | | | |
| Ca | 4.01 | 4.01 | 100% | 90% - 110% | | | | | | | | | | | | |
| Ce | 24 | 18 | 76% | 90% - 110% | | | | | | | | | | | | |
| Cu | 88.6 | 89.3 | 101% | 90% - 110% | | | | | | | | | | | | |
| Fe | 7.56 | 7.36 | 97% | 90% - 110% | | | | | | | | | | | | |
| K | 2.021 | 2.01 | 99% | 90% - 110% | | | | | | | | | | | | |
| Mg | 2.412 | 2.553 | 106% | 90% - 110% | | | | | | | | | | | | |
| Mn | 1510 | 1583 | 105% | 90% - 110% | | | | | | | | | | | | |
| Na | 0.617 | 0.621 | 101% | 90% - 110% | | | | | | | | | | | | |
| Ni | 77.1 | 72.6 | 94% | 90% - 110% | | | | | | | | | | | | |
| P | 892 | 961 | 108% | 90% - 110% | | | | | | | | | | | | |
| S | 0.348 | 0.383 | 110% | 90% - 110% | | | | | | | | | | | | |
| Sr | 92.8 | 85.3 | 92% | 90% - 110% | | | | | | | | | | | | |
| Zn | 208 | 208 | 100% | 90% - 110% | | | | | | | | | | | | |

Method Summary

CLIENT NAME: CRUZ COBALT CORP.

AGAT WORK ORDER: 17T282584

PROJECT:

ATTENTION TO: Jason Gigliotti, Jim Nelson

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|----------------|---------------|----------------------|----------------------|
| Solid Analysis | | | |
| Ag | MIN-200-12020 | | ICP-MS |
| Al | MIN-200-12020 | | ICP/OES |
| As | MIN-200-12020 | | ICP-MS |
| Ba | MIN-200-12020 | | ICP-MS |
| Be | MIN-200-12020 | | ICP-MS |
| Bi | MIN-200-12020 | | ICP-MS |
| Ca | MIN-200-12020 | | ICP/OES |
| Cd | MIN-200-12020 | | ICP-MS |
| Ce | MIN-200-12020 | | ICP-MS |
| Co | MIN-200-12020 | | ICP-MS |
| Cr | MIN-200-12020 | | ICP/OES |
| Cs | MIN-200-12020 | | ICP-MS |
| Cu | MIN-200-12020 | | ICP-MS |
| Fe | MIN-200-12020 | | ICP/OES |
| Ga | MIN-200-12020 | | ICP-MS |
| Ge | MIN-200-12020 | | ICP-MS |
| Hf | MIN-200-12020 | | ICP-MS |
| In | MIN-200-12020 | | ICP-MS |
| K | MIN-200-12020 | | ICP/OES |
| La | MIN-200-12020 | | ICP-MS |
| Li | MIN-200-12020 | | ICP-MS |
| Mg | MIN-200-12020 | | ICP/OES |
| Mn | MIN-200-12020 | | ICP/OES |
| Mo | MIN-200-12020 | | ICP-MS |
| Na | MIN-200-12020 | | ICP/OES |
| Nb | MIN-200-12020 | | ICP-MS |
| Ni | MIN-200-12020 | | ICP-MS |
| P | MIN-200-12020 | | ICP/OES |
| Pb | MIN-200-12020 | | ICP-MS |
| Rb | MIN-200-12020 | | ICP-MS |
| Re | MIN-200-12020 | | ICP-MS |
| S | MIN-200-12020 | | ICP/OES |
| Sb | MIN-200-12020 | | ICP-MS |
| Sc | MIN-200-12020 | | ICP-MS |
| Se | MIN-200-12020 | | ICP-MS |
| Sn | MIN-200-12020 | | ICP-MS |
| Sr | MIN-200-12020 | | ICP-MS |
| Ta | MIN-200-12020 | | ICP-MS |
| Te | MIN-200-12020 | | ICP-MS |
| Th | MIN-200-12020 | | ICP-MS |
| Ti | MIN-200-12020 | | ICP/OES |
| Tl | MIN-200-12020 | | ICP-MS |
| U | MIN-200-12020 | | ICP-MS |
| V | MIN-200-12020 | | ICP/OES |
| W | MIN-200-12020 | | ICP-MS |
| Y | MIN-200-12020 | | ICP-MS |
| Zn | MIN-200-12020 | | ICP-MS |
| Zr | MIN-200-12020 | | ICP-MS |

CLIENT NAME: CRUZ COBALT CORP.
P.O BOX 10112 1470-701 W. GEORGIA ST
VANCOUVER, BC V7Y 1C6
604-646-6908

ATTENTION TO: Jason Gigliotti, Jim Nelson

PROJECT:

AGAT WORK ORDER: 17T282585

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Jan 08, 2018

PAGES (INCLUDING COVER): 18

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 17T282585

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | DATE REPORTED: Jan 08, 2018 | | | SAMPLE TYPE: Other | | | | | | | |
|----------------------------|-----------------------------|------|------|-----------------------------|------|------|--------------------|------|------|------|------|------|------|------|
| Analyte: | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs | Cu | Fe |
| Unit: | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % |
| RDL: | 0.01 | 0.01 | 0.2 | 1 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.05 | 0.5 | 0.01 | 0.5 | 0.01 |
| I14 (8894013) | 0.23 | 6.68 | 2.9 | 496 | 1.19 | 0.09 | 1.39 | 0.07 | 29.1 | 11.4 | 57.4 | 1.17 | 11.4 | 2.26 |
| I15 (8894014) | 0.31 | 6.67 | 3.6 | 462 | 1.27 | 0.13 | 1.31 | 0.07 | 23.5 | 15.2 | 66.9 | 1.42 | 14.1 | 2.95 |
| I16 (8894015) | 0.23 | 6.44 | 3.4 | 459 | 1.11 | 0.11 | 1.27 | 0.05 | 25.3 | 9.76 | 59.1 | 1.31 | 9.5 | 2.57 |
| I17 (8894016) | 0.18 | 6.60 | 7.3 | 455 | 1.33 | 0.14 | 1.36 | 0.06 | 27.5 | 14.5 | 61.4 | 1.28 | 9.8 | 2.77 |
| I18 (8894017) | 0.20 | 6.55 | 10.2 | 435 | 1.21 | 0.20 | 1.25 | 0.12 | 31.9 | 14.9 | 70.1 | 1.69 | 27.8 | 3.19 |
| I19 (8894018) | 0.20 | 6.40 | 6.6 | 398 | 1.27 | 0.15 | 1.21 | 0.12 | 21.0 | 12.6 | 69.8 | 1.47 | 28.9 | 3.60 |
| I20 (8894019) | 0.23 | 6.80 | 4.7 | 438 | 1.24 | 0.15 | 1.25 | 0.09 | 24.3 | 10.9 | 65.3 | 1.38 | 10.2 | 2.90 |
| I21 (8894020) | 0.20 | 6.54 | 7.1 | 419 | 1.16 | 0.15 | 1.30 | 0.12 | 31.8 | 11.0 | 70.9 | 1.39 | 21.8 | 3.68 |
| I22 (8894021) | 0.19 | 5.92 | 3.5 | 492 | 1.14 | 0.86 | 1.39 | 0.06 | 22.4 | 7.56 | 40.6 | 0.92 | 7.4 | 1.85 |
| I23 (8894022) | 0.18 | 6.66 | 3.4 | 479 | 1.19 | 0.08 | 1.45 | 0.05 | 27.4 | 10.9 | 53.3 | 1.04 | 8.3 | 2.38 |
| I24 (8894023) | 0.21 | 6.25 | 3.4 | 508 | 1.11 | 0.09 | 1.43 | 0.08 | 17.5 | 8.50 | 51.5 | 1.13 | 5.7 | 2.29 |
| I25 (8894024) | 0.31 | 6.17 | 4.9 | 436 | 0.96 | 0.15 | 1.09 | 0.08 | 20.0 | 5.16 | 48.4 | 1.10 | 8.8 | 2.45 |
| I26 (8894025) | 0.18 | 6.47 | 2.3 | 490 | 1.17 | 0.09 | 1.40 | 0.07 | 20.9 | 9.42 | 59.1 | 1.22 | 4.0 | 2.60 |
| I27 (8894026) | 0.20 | 6.27 | 1.9 | 444 | 1.07 | 0.07 | 1.47 | 0.05 | 14.2 | 8.61 | 58.1 | 0.95 | 3.8 | 2.69 |
| I28 (8894027) | 0.20 | 6.58 | 4.3 | 467 | 1.27 | 0.09 | 1.48 | 0.05 | 23.9 | 11.3 | 65.1 | 1.13 | 4.0 | 2.82 |
| I29 (8894028) | 0.17 | 6.57 | 2.3 | 463 | 1.15 | 0.08 | 1.55 | 0.06 | 22.3 | 11.5 | 69.2 | 1.10 | 7.9 | 2.91 |
| I30 (8894029) | 0.24 | 5.63 | 1.1 | 514 | 0.93 | 0.08 | 1.34 | 0.05 | 19.4 | 4.80 | 40.8 | 1.04 | 2.6 | 1.75 |
| I31 (8894030) | 0.13 | 6.53 | 2.5 | 513 | 1.11 | 0.08 | 1.50 | 0.07 | 21.6 | 7.16 | 54.6 | 1.02 | 3.2 | 2.31 |
| I32 (8894031) | 0.21 | 6.56 | 1.3 | 528 | 1.17 | 0.08 | 1.40 | 0.06 | 20.6 | 8.92 | 54.0 | 1.17 | 4.0 | 2.40 |
| I33 (8894032) | 0.23 | 6.36 | 1.1 | 527 | 1.17 | 0.07 | 1.37 | 0.04 | 15.0 | 7.89 | 47.1 | 1.05 | 3.6 | 1.95 |
| I34 (8894033) | 0.19 | 6.42 | 1.9 | 514 | 1.13 | 0.07 | 1.40 | 0.04 | 17.6 | 9.26 | 46.9 | 0.93 | 7.5 | 1.97 |
| I35 (8894034) | 0.28 | 5.91 | 2.2 | 461 | 0.90 | 0.11 | 1.21 | 0.07 | 30.3 | 9.07 | 55.3 | 1.53 | 10.1 | 2.56 |
| I36 (8894035) | 0.26 | 6.43 | 4.4 | 489 | 1.15 | 0.16 | 1.36 | 0.13 | 23.7 | 13.0 | 67.5 | 2.00 | 11.2 | 3.17 |
| I37 (8894036) | 0.15 | 6.00 | 2.3 | 569 | 1.05 | 0.09 | 1.28 | 0.04 | 14.5 | 5.59 | 33.6 | 1.00 | 2.9 | 1.65 |
| I38 (8894037) | 0.44 | 5.66 | 6.1 | 532 | 0.91 | 0.14 | 1.34 | 0.09 | 21.6 | 6.17 | 43.3 | 1.34 | 6.1 | 2.04 |
| I39 (8894038) | 0.27 | 6.43 | 4.5 | 517 | 1.12 | 0.12 | 1.42 | 0.10 | 22.3 | 9.36 | 58.4 | 1.25 | 4.8 | 2.48 |
| I40 (8894039) | 0.61 | 6.35 | 22.5 | 408 | 1.51 | 0.39 | 1.44 | 0.21 | 43.9 | 26.8 | 81.7 | 2.63 | 69.7 | 5.47 |
| J1 (8894040) | 1.22 | 7.38 | 2.0 | 467 | 1.25 | 2.92 | 1.23 | 0.04 | 17.8 | 9.59 | 56.0 | 1.18 | 4.4 | 2.52 |
| J2 (8894041) | 0.17 | 6.35 | 2.4 | 521 | 1.23 | 0.07 | 1.40 | 0.03 | 20.6 | 8.80 | 47.1 | 1.03 | 4.6 | 2.01 |
| J3 (8894042) | 0.19 | 6.66 | 2.0 | 513 | 1.22 | 0.09 | 1.39 | 0.07 | 21.8 | 9.43 | 55.6 | 1.25 | 3.2 | 2.16 |
| J4 (8894043) | 0.20 | 6.48 | 2.1 | 497 | 1.21 | 0.09 | 1.43 | 0.06 | 21.6 | 10.4 | 58.0 | 1.18 | 3.8 | 2.38 |
| J5 (8894044) | 0.24 | 7.10 | 3.9 | 458 | 1.28 | 0.10 | 1.41 | 0.06 | 31.8 | 8.39 | 65.0 | 1.04 | 12.8 | 2.76 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282585

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 08, 2018

SAMPLE TYPE: Other

| Sample ID (AGAT ID) | Analyte: Unit: RDL: | Ag ppm 0.01 | Al % 0.01 | As ppm 0.2 | Ba ppm 1 | Be ppm 0.05 | Bi ppm 0.01 | Ca % 0.01 | Cd ppm 0.02 | Ce ppm 0.01 | Co ppm 0.05 | Cr ppm 0.5 | Cs ppm 0.01 | Cu ppm 0.5 | Fe % 0.01 |
|---------------------|---------------------------|-------------------|-----------------|------------------|----------------|-------------------|-------------------|-----------------|-------------------|-------------------|-------------------|------------------|-------------------|------------------|-----------------|
| J6 (8894045) | | 0.18 | 6.25 | 2.1 | 514 | 1.13 | 0.08 | 1.46 | 0.07 | 20.0 | 7.41 | 47.3 | 1.03 | 2.9 | 2.03 |
| J7 (8894046) | | 0.22 | 6.40 | 2.1 | 499 | 1.23 | 0.09 | 1.35 | 0.06 | 25.8 | 8.04 | 51.3 | 1.08 | 3.2 | 2.40 |
| J8 (8894047) | | 0.21 | 6.33 | 3.0 | 481 | 1.05 | 0.08 | 1.38 | 0.10 | 22.3 | 10.1 | 54.2 | 1.06 | 5.6 | 2.18 |
| J9 (8894048) | | 0.19 | 6.11 | 3.9 | 452 | 1.04 | 0.16 | 1.27 | 0.06 | 24.9 | 9.56 | 51.5 | 1.48 | 11.7 | 2.70 |
| J10 (8894049) | | 0.26 | 7.12 | 1.9 | 483 | 1.20 | 0.09 | 1.48 | 0.05 | 21.0 | 10.8 | 63.9 | 1.13 | 5.5 | 2.57 |
| J11 (8894050) | | 0.15 | 6.20 | 2.7 | 503 | 1.18 | 0.08 | 1.37 | 0.05 | 16.6 | 7.35 | 45.1 | 1.06 | 3.7 | 1.92 |
| J12 (8894051) | | 0.14 | 6.49 | 2.4 | 513 | 1.23 | 0.08 | 1.36 | 0.06 | 19.6 | 8.72 | 55.6 | 1.07 | 3.5 | 2.26 |
| J13 (8894052) | | 0.23 | 6.81 | 2.1 | 507 | 1.20 | 0.08 | 1.57 | 0.05 | 21.1 | 9.67 | 65.8 | 1.15 | 3.6 | 2.24 |
| J14 (8894053) | | 0.12 | 6.48 | 3.4 | 547 | 1.26 | 0.10 | 1.35 | 0.04 | 24.1 | 8.66 | 54.3 | 1.12 | 12.0 | 2.12 |
| J15 (8894054) | | 0.13 | 6.20 | 5.4 | 501 | 1.36 | 0.11 | 1.53 | 0.07 | 38.4 | 7.70 | 56.6 | 1.22 | 20.3 | 2.03 |
| J16 (8894055) | | 0.14 | 6.62 | 4.9 | 514 | 1.31 | 0.10 | 1.49 | 0.05 | 29.3 | 13.1 | 62.0 | 1.13 | 11.2 | 2.52 |
| J17 (8894056) | | 0.21 | 6.26 | 2.7 | 505 | 1.31 | 0.09 | 1.47 | 0.06 | 39.1 | 8.30 | 55.0 | 1.08 | 12.2 | 2.11 |
| J18 (8894057) | | 0.25 | 6.83 | 4.9 | 448 | 1.30 | 0.15 | 1.26 | 0.08 | 19.3 | 11.6 | 74.6 | 1.58 | 11.1 | 4.01 |
| J19 (8894058) | | 0.21 | 6.27 | 0.7 | 504 | 1.19 | 0.08 | 1.37 | 0.07 | 19.3 | 7.72 | 48.6 | 1.00 | 2.5 | 1.97 |
| J20 (8894059) | | 0.11 | 6.44 | 1.2 | 504 | 1.15 | 0.07 | 1.38 | 0.06 | 16.3 | 7.91 | 45.3 | 0.97 | 3.7 | 2.03 |
| J21 (8894060) | | 0.21 | 5.98 | 5.5 | 440 | 1.33 | 0.12 | 1.52 | 0.10 | 33.8 | 9.67 | 76.3 | 1.17 | 4.8 | 3.67 |
| J22 (8894061) | | 0.14 | 6.56 | 1.5 | 492 | 1.20 | 0.09 | 1.45 | 0.05 | 17.5 | 8.54 | 60.4 | 1.06 | 5.2 | 2.84 |
| J23 (8894062) | | 0.13 | 6.59 | 2.1 | 529 | 1.34 | 0.08 | 1.35 | 0.06 | 18.2 | 8.60 | 50.5 | 1.13 | 5.2 | 2.10 |
| J24 (8894063) | | 0.41 | 6.64 | 1.7 | 497 | 1.20 | 0.10 | 1.41 | 0.06 | 19.0 | 8.64 | 56.8 | 1.14 | 4.2 | 2.43 |
| J25 (8894064) | | 0.16 | 6.50 | 3.1 | 459 | 1.22 | 0.09 | 1.75 | 0.06 | 37.4 | 10.5 | 77.1 | 1.01 | 7.3 | 3.13 |
| J26 (8894065) | | 0.18 | 6.71 | 1.9 | 505 | 1.26 | 0.09 | 1.34 | 0.06 | 22.2 | 10.5 | 76.0 | 1.36 | 7.6 | 2.55 |
| J27 (8894066) | | 0.20 | 7.00 | 2.5 | 491 | 1.22 | 0.09 | 1.28 | 0.07 | 25.2 | 11.1 | 76.0 | 1.37 | 7.9 | 2.84 |
| J28 (8894067) | | 0.21 | 6.56 | 1.9 | 491 | 1.15 | 0.09 | 1.46 | 0.06 | 22.1 | 9.82 | 61.3 | 1.21 | 7.9 | 2.80 |
| J29 (8894068) | | 0.28 | 6.98 | 1.7 | 407 | 1.29 | 0.10 | 1.74 | 0.10 | 27.6 | 11.0 | 104 | 1.06 | 7.3 | 4.07 |
| J30 (8894069) | | 0.14 | 6.70 | 1.8 | 482 | 1.26 | 0.08 | 1.45 | 0.05 | 18.0 | 9.61 | 48.7 | 1.03 | 4.3 | 2.30 |
| J31 (8894070) | | 0.14 | 6.54 | 2.7 | 479 | 1.30 | 0.08 | 1.61 | 0.05 | 17.1 | 10.7 | 58.1 | 1.06 | 5.3 | 2.62 |
| J32 (8894071) | | 0.24 | 6.36 | 1.5 | 500 | 1.23 | 0.08 | 1.56 | 0.08 | 19.1 | 8.76 | 63.1 | 1.08 | 4.6 | 2.43 |
| J33 (8894072) | | 0.16 | 6.80 | 1.6 | 468 | 1.38 | 0.09 | 1.54 | 0.06 | 21.4 | 10.2 | 71.8 | 1.10 | 4.5 | 3.04 |
| K1 (8894073) | | 0.19 | 6.59 | 1.7 | 505 | 1.27 | 0.08 | 1.55 | 0.08 | 21.3 | 9.72 | 54.7 | 1.14 | 3.9 | 2.37 |
| K2 (8894074) | | 0.16 | 6.59 | 2.5 | 530 | 1.22 | 0.09 | 1.49 | 0.09 | 20.4 | 9.27 | 49.3 | 1.37 | 6.3 | 2.52 |
| K3 (8894075) | | 0.25 | 6.25 | 2.3 | 516 | 1.13 | 0.09 | 1.43 | 0.13 | 23.9 | 9.12 | 57.1 | 1.34 | 3.7 | 2.21 |
| K4 (8894076) | | 0.19 | 6.81 | 3.0 | 437 | 1.32 | 0.10 | 1.56 | 0.11 | 32.5 | 12.1 | 88.8 | 1.15 | 4.9 | 3.78 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282585

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | DATE REPORTED: Jan 08, 2018 | | | SAMPLE TYPE: Other | | | | | | | |
|----------------------------|-----------------------------|------|------|-----------------------------|------|------|--------------------|------|------|------|------|------|------|------|
| Analyte: | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs | Cu | Fe |
| Unit: | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % |
| RDL: | 0.01 | 0.01 | 0.2 | 1 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.05 | 0.5 | 0.01 | 0.5 | 0.01 |
| K5 (8894077) | 0.24 | 6.00 | 1.0 | 491 | 1.22 | 0.07 | 1.44 | 0.10 | 18.7 | 7.58 | 52.4 | 1.17 | 3.6 | 2.13 |
| K6 (8894078) | 0.56 | 7.00 | 2.8 | 482 | 1.19 | 0.11 | 1.41 | 0.11 | 26.8 | 11.1 | 67.4 | 1.48 | 8.9 | 3.03 |
| K7 (8894079) | 0.12 | 5.90 | 2.8 | 453 | 1.13 | 0.09 | 1.54 | 0.06 | 28.1 | 13.9 | 75.5 | 1.11 | 4.9 | 3.24 |
| K8 (8894080) | 0.09 | 5.97 | 2.6 | 479 | 1.24 | 0.15 | 1.51 | 0.05 | 16.8 | 7.31 | 49.0 | 1.03 | 5.9 | 2.42 |
| K9 (8894081) | 0.17 | 6.19 | 1.5 | 529 | 1.24 | 0.10 | 1.11 | 0.04 | 31.0 | 8.08 | 51.7 | 1.51 | 8.1 | 2.17 |
| K10 (8894082) | 0.32 | 7.54 | 15.3 | 433 | 1.64 | 0.38 | 1.07 | 0.15 | 79.0 | 32.9 | 124 | 3.02 | 81.3 | 5.22 |
| K11 (8894083) | 0.26 | 7.01 | 3.5 | 483 | 1.27 | 0.12 | 1.37 | 0.07 | 23.0 | 13.2 | 67.5 | 1.53 | 6.2 | 3.06 |
| K12 (8894084) | 0.30 | 7.19 | 2.3 | 512 | 1.42 | 0.10 | 1.30 | 0.08 | 30.4 | 12.6 | 81.4 | 1.52 | 8.7 | 2.64 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282585

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 08, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|-------|-----|-------|------|-----------------------------|------|------|-----|------|--------------------|-----|------|------|--|
| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P | |
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm | |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 | |
| I14 (8894013) | 14.5 | <0.05 | 2.7 | 0.024 | 1.53 | 11.6 | 13.5 | 0.67 | 278 | 0.46 | 1.99 | 5.4 | 30.5 | 348 | |
| I15 (8894014) | 14.5 | <0.05 | 2.3 | 0.032 | 1.40 | 10.1 | 20.7 | 0.68 | 331 | 0.76 | 1.83 | 5.4 | 39.2 | 374 | |
| I16 (8894015) | 14.5 | <0.05 | 2.8 | 0.028 | 1.48 | 12.3 | 18.4 | 0.53 | 260 | 0.69 | 1.74 | 6.0 | 25.2 | 444 | |
| I17 (8894016) | 14.1 | <0.05 | 2.7 | 0.030 | 1.43 | 12.4 | 20.0 | 0.59 | 325 | 0.61 | 1.85 | 5.8 | 33.1 | 464 | |
| I18 (8894017) | 14.3 | <0.05 | 2.2 | 0.032 | 1.42 | 12.1 | 21.7 | 0.81 | 419 | 0.50 | 1.82 | 4.9 | 39.0 | 533 | |
| I19 (8894018) | 14.1 | <0.05 | 2.7 | 0.038 | 1.32 | 9.8 | 24.2 | 0.69 | 337 | 0.79 | 1.62 | 5.7 | 32.5 | 709 | |
| I20 (8894019) | 15.1 | <0.05 | 2.8 | 0.033 | 1.36 | 11.8 | 21.8 | 0.55 | 272 | 0.70 | 1.74 | 5.7 | 30.3 | 855 | |
| I21 (8894020) | 14.8 | <0.05 | 2.7 | 0.036 | 1.34 | 16.7 | 19.7 | 0.65 | 309 | 0.89 | 1.70 | 6.0 | 31.1 | 546 | |
| I22 (8894021) | 13.3 | <0.05 | 2.0 | 0.019 | 1.53 | 9.4 | 9.6 | 0.55 | 293 | 0.34 | 2.18 | 4.1 | 21.0 | 368 | |
| I23 (8894022) | 13.9 | <0.05 | 1.9 | 0.024 | 1.53 | 11.4 | 13.5 | 0.63 | 318 | 0.45 | 2.14 | 4.3 | 27.7 | 455 | |
| I24 (8894023) | 14.4 | <0.05 | 1.8 | 0.025 | 1.51 | 8.4 | 14.2 | 0.54 | 307 | 0.48 | 2.07 | 4.5 | 21.7 | 505 | |
| I25 (8894024) | 15.5 | <0.05 | 2.8 | 0.031 | 1.31 | 10.0 | 18.9 | 0.41 | 234 | 0.67 | 1.52 | 6.6 | 14.9 | 573 | |
| I26 (8894025) | 14.3 | <0.05 | 2.5 | 0.028 | 1.51 | 9.9 | 15.6 | 0.56 | 416 | 0.52 | 1.98 | 5.2 | 21.6 | 878 | |
| I27 (8894026) | 13.9 | <0.05 | 1.4 | 0.024 | 1.39 | 6.7 | 13.0 | 0.64 | 363 | 0.38 | 2.06 | 4.6 | 26.2 | 546 | |
| I28 (8894027) | 14.9 | <0.05 | 2.3 | 0.033 | 1.46 | 11.5 | 15.8 | 0.68 | 355 | 0.48 | 2.00 | 5.8 | 29.1 | 523 | |
| I29 (8894028) | 13.8 | <0.05 | 3.0 | 0.026 | 1.49 | 10.0 | 14.4 | 0.79 | 423 | 0.43 | 1.98 | 5.3 | 35.2 | 499 | |
| I30 (8894029) | 13.8 | <0.05 | 2.6 | 0.020 | 1.55 | 9.6 | 9.6 | 0.45 | 285 | 0.38 | 1.99 | 4.9 | 14.7 | 210 | |
| I31 (8894030) | 14.8 | <0.05 | 2.4 | 0.026 | 1.51 | 11.2 | 12.5 | 0.55 | 324 | 0.35 | 2.13 | 5.1 | 22.1 | 398 | |
| I32 (8894031) | 14.6 | <0.05 | 2.6 | 0.024 | 1.63 | 10.2 | 14.6 | 0.56 | 301 | 0.56 | 2.02 | 5.2 | 25.7 | 387 | |
| I33 (8894032) | 14.2 | <0.05 | 1.6 | 0.021 | 1.57 | 7.0 | 12.1 | 0.58 | 255 | 0.32 | 2.16 | 4.0 | 25.7 | 263 | |
| I34 (8894033) | 13.3 | <0.05 | 1.9 | 0.022 | 1.57 | 7.8 | 11.9 | 0.61 | 285 | 0.53 | 2.21 | 4.5 | 28.6 | 376 | |
| I35 (8894034) | 14.2 | <0.05 | 2.1 | 0.027 | 1.42 | 15.0 | 21.0 | 0.58 | 283 | 0.62 | 1.69 | 5.4 | 26.4 | 585 | |
| I36 (8894035) | 15.5 | <0.05 | 2.3 | 0.034 | 1.57 | 10.2 | 24.8 | 0.68 | 415 | 0.76 | 1.67 | 6.1 | 34.9 | 1240 | |
| I37 (8894036) | 14.9 | <0.05 | 1.9 | 0.017 | 1.72 | 6.9 | 9.7 | 0.41 | 244 | 0.28 | 2.25 | 3.7 | 13.8 | 562 | |
| I38 (8894037) | 15.0 | <0.05 | 2.8 | 0.026 | 1.69 | 10.6 | 13.9 | 0.49 | 294 | 0.60 | 1.88 | 5.7 | 17.4 | 522 | |
| I39 (8894038) | 15.5 | <0.05 | 2.5 | 0.026 | 1.50 | 10.7 | 16.3 | 0.64 | 325 | 0.56 | 1.89 | 6.3 | 30.4 | 535 | |
| I40 (8894039) | 15.2 | <0.05 | 2.4 | 0.062 | 1.41 | 18.5 | 31.5 | 1.00 | 703 | 1.23 | 1.43 | 9.2 | 55.9 | 2300 | |
| J1 (8894040) | 14.3 | <0.05 | 2.8 | 0.030 | 1.49 | 8.6 | 16.9 | 0.50 | 233 | 0.53 | 1.85 | 5.4 | 24.0 | 347 | |
| J2 (8894041) | 13.5 | <0.05 | 2.2 | 0.021 | 1.63 | 8.7 | 12.2 | 0.58 | 287 | 0.29 | 2.14 | 4.0 | 27.2 | 414 | |
| J3 (8894042) | 14.3 | <0.05 | 2.8 | 0.027 | 1.62 | 9.6 | 14.5 | 0.60 | 275 | 0.41 | 2.01 | 5.7 | 27.7 | 489 | |
| J4 (8894043) | 14.6 | <0.05 | 2.9 | 0.024 | 1.59 | 10.1 | 13.0 | 0.64 | 354 | 0.43 | 2.03 | 5.5 | 27.6 | 567 | |
| J5 (8894044) | 13.8 | <0.05 | 2.7 | 0.030 | 1.44 | 14.3 | 14.0 | 0.60 | 299 | 0.74 | 1.93 | 5.1 | 24.9 | 909 | |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282585

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
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FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 08, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|-------|-----|-------|------|-----------------------------|------|------|-----|------|--------------------|-----|------|------|--|
| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P | |
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm | |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 | |
| J6 (8894045) | 14.0 | <0.05 | 3.0 | 0.021 | 1.63 | 9.8 | 11.8 | 0.53 | 313 | 0.33 | 2.13 | 4.6 | 21.8 | 486 | |
| J7 (8894046) | 15.7 | <0.05 | 2.1 | 0.024 | 1.59 | 11.9 | 12.7 | 0.52 | 302 | 0.43 | 2.02 | 5.1 | 21.6 | 494 | |
| J8 (8894047) | 13.3 | <0.05 | 2.1 | 0.025 | 1.56 | 9.2 | 12.3 | 0.66 | 333 | 0.37 | 2.00 | 4.8 | 25.7 | 558 | |
| J9 (8894048) | 15.5 | <0.05 | 2.9 | 0.027 | 1.47 | 10.6 | 18.9 | 0.60 | 343 | 0.56 | 1.77 | 5.7 | 24.9 | 822 | |
| J10 (8894049) | 14.7 | <0.05 | 2.2 | 0.025 | 1.50 | 10.6 | 16.1 | 0.71 | 311 | 0.53 | 2.06 | 6.1 | 33.9 | 477 | |
| J11 (8894050) | 14.2 | <0.05 | 2.0 | 0.021 | 1.60 | 7.5 | 10.9 | 0.57 | 264 | 0.39 | 2.14 | 3.8 | 22.1 | 344 | |
| J12 (8894051) | 14.5 | <0.05 | 1.7 | 0.021 | 1.56 | 10.4 | 14.1 | 0.56 | 310 | 0.39 | 2.07 | 4.1 | 26.6 | 491 | |
| J13 (8894052) | 14.5 | <0.05 | 2.4 | 0.023 | 1.60 | 9.3 | 12.2 | 0.69 | 317 | 0.45 | 2.22 | 5.6 | 27.4 | 303 | |
| J14 (8894053) | 14.7 | <0.05 | 1.6 | 0.020 | 1.64 | 9.9 | 13.4 | 0.62 | 289 | 0.41 | 2.28 | 3.6 | 26.4 | 247 | |
| J15 (8894054) | 14.9 | <0.05 | 2.9 | 0.026 | 1.64 | 33.6 | 12.9 | 0.66 | 366 | 0.40 | 2.16 | 4.7 | 24.1 | 297 | |
| J16 (8894055) | 14.6 | <0.05 | 2.1 | 0.026 | 1.59 | 9.4 | 14.0 | 0.65 | 326 | 0.47 | 2.16 | 4.7 | 31.5 | 408 | |
| J17 (8894056) | 14.8 | <0.05 | 2.3 | 0.021 | 1.64 | 22.6 | 10.6 | 0.62 | 373 | 0.45 | 2.22 | 4.4 | 24.3 | 372 | |
| J18 (8894057) | 16.2 | <0.05 | 2.4 | 0.036 | 1.43 | 9.7 | 22.4 | 0.69 | 337 | 0.82 | 1.80 | 6.2 | 31.5 | 571 | |
| J19 (8894058) | 14.3 | <0.05 | 1.8 | 0.019 | 1.58 | 8.0 | 10.7 | 0.56 | 253 | 0.39 | 2.18 | 3.8 | 20.6 | 248 | |
| J20 (8894059) | 13.8 | <0.05 | 1.4 | 0.020 | 1.55 | 7.1 | 11.7 | 0.55 | 244 | 0.34 | 2.19 | 3.5 | 22.7 | 457 | |
| J21 (8894060) | 16.6 | <0.05 | 3.0 | 0.034 | 1.39 | 16.5 | 15.4 | 0.66 | 459 | 0.50 | 1.94 | 6.5 | 21.6 | 839 | |
| J22 (8894061) | 16.1 | <0.05 | 1.5 | 0.026 | 1.59 | 8.2 | 13.0 | 0.63 | 397 | 0.32 | 2.13 | 4.5 | 21.5 | 2410 | |
| J23 (8894062) | 14.5 | <0.05 | 1.9 | 0.019 | 1.67 | 8.7 | 12.8 | 0.64 | 272 | 0.31 | 2.16 | 5.7 | 27.9 | 362 | |
| J24 (8894063) | 15.1 | <0.05 | 1.6 | 0.024 | 1.52 | 9.3 | 16.5 | 0.63 | 314 | 0.38 | 2.08 | 4.5 | 27.0 | 563 | |
| J25 (8894064) | 14.8 | <0.05 | 3.0 | 0.028 | 1.46 | 17.3 | 14.5 | 0.81 | 501 | 0.45 | 2.17 | 6.3 | 34.4 | 726 | |
| J26 (8894065) | 15.1 | <0.05 | 2.3 | 0.027 | 1.60 | 10.5 | 17.9 | 0.69 | 305 | 0.52 | 1.93 | 5.8 | 34.8 | 380 | |
| J27 (8894066) | 15.1 | <0.05 | 1.8 | 0.028 | 1.59 | 11.0 | 18.7 | 0.75 | 331 | 0.44 | 1.87 | 5.7 | 38.5 | 494 | |
| J28 (8894067) | 15.2 | <0.05 | 2.6 | 0.027 | 1.55 | 10.1 | 15.3 | 0.69 | 353 | 0.37 | 2.04 | 5.1 | 31.6 | 558 | |
| J29 (8894068) | 14.6 | <0.05 | 3.2 | 0.030 | 1.24 | 12.7 | 17.4 | 0.77 | 564 | 0.51 | 1.90 | 6.6 | 29.0 | 1020 | |
| J30 (8894069) | 14.6 | <0.05 | 1.6 | 0.023 | 1.49 | 8.5 | 13.9 | 0.65 | 308 | 0.36 | 2.18 | 4.7 | 26.9 | 534 | |
| J31 (8894070) | 15.0 | <0.05 | 1.9 | 0.026 | 1.46 | 7.7 | 13.8 | 0.71 | 370 | 0.31 | 2.22 | 4.3 | 30.2 | 529 | |
| J32 (8894071) | 14.4 | <0.05 | 2.3 | 0.023 | 1.54 | 8.8 | 12.9 | 0.66 | 332 | 0.35 | 2.23 | 4.8 | 25.5 | 509 | |
| J33 (8894072) | 14.9 | <0.05 | 2.5 | 0.026 | 1.48 | 9.8 | 15.8 | 0.71 | 389 | 0.36 | 2.12 | 5.3 | 27.3 | 471 | |
| K1 (8894073) | 15.2 | <0.05 | 2.3 | 0.026 | 1.56 | 10.2 | 13.4 | 0.70 | 345 | 0.46 | 2.11 | 5.3 | 30.8 | 541 | |
| K2 (8894074) | 15.6 | <0.05 | 2.4 | 0.023 | 1.65 | 9.7 | 15.0 | 0.67 | 342 | 0.44 | 2.09 | 5.3 | 29.5 | 556 | |
| K3 (8894075) | 15.6 | <0.05 | 2.4 | 0.027 | 1.68 | 10.8 | 12.5 | 0.62 | 392 | 0.39 | 1.98 | 6.2 | 24.8 | 310 | |
| K4 (8894076) | 15.6 | <0.05 | 4.1 | 0.035 | 1.42 | 15.0 | 15.7 | 0.73 | 510 | 0.61 | 1.85 | 7.2 | 30.5 | 1000 | |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282585

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 08, 2018

SAMPLE TYPE: Other

| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P |
|---------------|------|-------|-----|-------|------|------|------|------|-----|------|------|-----|------|------|
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 |
| K5 (8894077) | 14.9 | <0.05 | 2.6 | 0.022 | 1.55 | 8.9 | 10.4 | 0.60 | 339 | 0.42 | 2.04 | 4.6 | 21.2 | 278 |
| K6 (8894078) | 15.4 | <0.05 | 3.2 | 0.033 | 1.53 | 13.0 | 18.5 | 0.63 | 369 | 0.67 | 1.82 | 7.1 | 29.1 | 579 |
| K7 (8894079) | 15.8 | <0.05 | 1.7 | 0.026 | 1.49 | 12.4 | 11.7 | 0.66 | 676 | 0.41 | 2.07 | 5.9 | 21.2 | 1260 |
| K8 (8894080) | 14.6 | <0.05 | 1.8 | 0.022 | 1.54 | 7.8 | 11.6 | 0.66 | 362 | 0.44 | 2.19 | 4.8 | 21.0 | 301 |
| K9 (8894081) | 16.1 | <0.05 | 2.6 | 0.025 | 1.80 | 14.3 | 16.2 | 0.58 | 232 | 0.59 | 1.72 | 6.5 | 25.7 | 274 |
| K10 (8894082) | 15.3 | <0.05 | 2.6 | 0.053 | 1.80 | 13.2 | 31.7 | 1.10 | 704 | 1.52 | 1.12 | 8.7 | 72.8 | 1470 |
| K11 (8894083) | 16.1 | <0.05 | 2.4 | 0.033 | 1.54 | 11.4 | 20.2 | 0.69 | 351 | 0.69 | 1.78 | 7.2 | 37.1 | 538 |
| K12 (8894084) | 15.4 | <0.05 | 2.5 | 0.029 | 1.73 | 14.1 | 20.5 | 0.79 | 294 | 0.40 | 1.88 | 6.9 | 44.0 | 584 |

Certified By:

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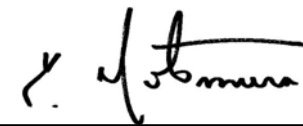
CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 08, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|------|--------|------|------|-----------------------------|------|-----|-----|------|--------------------|-----|------|------|--|
| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl | |
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | |
| RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | 0.01 | |
| I14 (8894013) | 12.1 | 44.0 | <0.002 | 0.04 | 0.13 | 8.6 | 0.9 | 0.9 | 263 | 0.40 | <0.01 | 3.3 | 0.24 | 0.26 | |
| I15 (8894014) | 12.4 | 45.7 | <0.002 | 0.03 | 0.22 | 8.7 | 0.9 | 1.1 | 229 | 0.38 | 0.01 | 4.1 | 0.27 | 0.24 | |
| I16 (8894015) | 11.8 | 43.9 | <0.002 | 0.04 | 0.19 | 8.0 | 0.7 | 1.0 | 217 | 0.42 | 0.02 | 3.9 | 0.28 | 0.25 | |
| I17 (8894016) | 12.6 | 44.5 | <0.002 | 0.04 | 0.40 | 8.3 | 0.8 | 1.1 | 236 | 0.38 | 0.03 | 4.4 | 0.26 | 0.23 | |
| I18 (8894017) | 12.4 | 48.9 | <0.002 | 0.04 | 0.32 | 9.5 | 0.8 | 1.1 | 196 | 0.37 | 0.02 | 4.9 | 0.27 | 0.25 | |
| I19 (8894018) | 11.4 | 40.7 | <0.002 | 0.05 | 0.28 | 9.3 | 0.8 | 1.1 | 194 | 0.39 | 0.02 | 4.3 | 0.27 | 0.24 | |
| I20 (8894019) | 12.2 | 41.9 | <0.002 | 0.05 | 0.23 | 8.1 | 0.8 | 1.2 | 218 | 0.39 | 0.03 | 4.4 | 0.27 | 0.24 | |
| I21 (8894020) | 12.4 | 40.6 | <0.002 | 0.05 | 0.27 | 9.7 | 1.0 | 1.1 | 209 | 0.43 | 0.03 | 5.3 | 0.30 | 0.24 | |
| I22 (8894021) | 10.8 | 47.1 | <0.002 | 0.03 | 0.16 | 6.9 | 0.6 | 0.9 | 270 | 0.29 | <0.01 | 2.8 | 0.20 | 0.25 | |
| I23 (8894022) | 11.0 | 45.7 | <0.002 | 0.03 | 0.62 | 8.2 | 0.6 | 0.9 | 283 | 0.29 | <0.01 | 3.0 | 0.24 | 0.24 | |
| I24 (8894023) | 10.8 | 45.8 | <0.002 | 0.03 | 0.26 | 7.5 | 0.6 | 0.9 | 270 | 0.31 | <0.01 | 2.6 | 0.24 | 0.23 | |
| I25 (8894024) | 12.9 | 39.0 | <0.002 | 0.05 | 0.27 | 7.4 | 0.8 | 1.3 | 187 | 0.42 | 0.04 | 3.7 | 0.31 | 0.23 | |
| I26 (8894025) | 11.3 | 46.1 | <0.002 | 0.04 | 0.13 | 7.7 | 0.8 | 0.9 | 255 | 0.36 | <0.01 | 3.1 | 0.27 | 0.24 | |
| I27 (8894026) | 9.8 | 43.2 | <0.002 | 0.04 | 0.11 | 7.9 | 0.6 | 0.8 | 272 | 0.33 | <0.01 | 3.6 | 0.25 | 0.22 | |
| I28 (8894027) | 11.0 | 45.6 | <0.002 | 0.04 | 0.21 | 8.8 | 0.7 | 1.0 | 266 | 0.40 | 0.01 | 5.3 | 0.28 | 0.24 | |
| I29 (8894028) | 10.2 | 45.5 | <0.002 | 0.03 | 0.12 | 9.1 | 0.6 | 1.0 | 263 | 0.35 | 0.01 | 3.5 | 0.30 | 0.22 | |
| I30 (8894029) | 10.5 | 47.6 | <0.002 | 0.02 | 0.15 | 7.0 | 0.7 | 1.0 | 258 | 0.36 | <0.01 | 3.3 | 0.27 | 0.25 | |
| I31 (8894030) | 11.2 | 46.4 | <0.002 | 0.04 | 0.12 | 7.7 | 0.8 | 0.9 | 287 | 0.36 | <0.01 | 3.0 | 0.26 | 0.24 | |
| I32 (8894031) | 10.9 | 48.5 | <0.002 | 0.03 | 0.15 | 7.8 | 0.7 | 1.2 | 270 | 0.36 | <0.01 | 3.2 | 0.27 | 0.24 | |
| I33 (8894032) | 10.9 | 49.3 | <0.002 | 0.03 | 0.13 | 6.7 | 0.6 | 0.9 | 279 | 0.28 | <0.01 | 2.3 | 0.20 | 0.24 | |
| I34 (8894033) | 10.7 | 47.6 | <0.002 | 0.03 | 0.18 | 7.0 | 0.6 | 1.5 | 297 | 0.38 | 0.05 | 2.6 | 0.20 | 0.25 | |
| I35 (8894034) | 13.5 | 45.0 | <0.002 | 0.04 | 0.21 | 7.1 | 1.0 | 1.0 | 218 | 0.38 | 0.03 | 8.8 | 0.26 | 0.25 | |
| I36 (8894035) | 13.6 | 48.7 | <0.002 | 0.05 | 0.34 | 8.1 | 0.8 | 1.1 | 228 | 0.40 | 0.03 | 3.3 | 0.29 | 0.24 | |
| I37 (8894036) | 11.9 | 56.5 | <0.002 | 0.03 | 0.15 | 5.4 | <0.5 | 0.8 | 297 | 0.28 | 0.01 | 2.2 | 0.19 | 0.28 | |
| I38 (8894037) | 14.2 | 50.0 | <0.002 | 0.03 | 0.29 | 6.9 | 0.8 | 1.1 | 252 | 0.37 | 0.03 | 3.5 | 0.27 | 0.26 | |
| I39 (8894038) | 11.9 | 45.2 | <0.002 | 0.03 | 0.25 | 7.9 | 0.5 | 1.5 | 254 | 0.43 | 0.01 | 3.1 | 0.28 | 0.23 | |
| I40 (8894039) | 24.8 | 39.0 | <0.002 | 0.08 | 0.64 | 10.6 | 1.0 | 1.2 | 192 | 0.50 | 0.11 | 7.1 | 0.62 | 0.19 | |
| J1 (8894040) | 28.4 | 45.6 | <0.002 | 0.09 | 0.13 | 7.7 | 0.9 | 1.0 | 243 | 0.35 | <0.01 | 3.5 | 0.24 | 0.26 | |
| J2 (8894041) | 10.8 | 50.1 | <0.002 | 0.03 | 0.16 | 6.9 | <0.5 | 0.8 | 285 | 0.31 | <0.01 | 3.1 | 0.20 | 0.24 | |
| J3 (8894042) | 11.3 | 49.6 | <0.002 | 0.04 | 0.15 | 8.0 | 0.5 | 1.0 | 255 | 0.40 | 0.03 | 3.2 | 0.26 | 0.26 | |
| J4 (8894043) | 11.5 | 51.2 | <0.002 | 0.04 | 0.15 | 7.8 | <0.5 | 1.0 | 274 | 0.36 | <0.01 | 3.2 | 0.25 | 0.25 | |
| J5 (8894044) | 12.2 | 40.2 | <0.002 | 0.05 | 0.19 | 8.6 | 1.1 | 0.8 | 259 | 0.35 | <0.01 | 5.3 | 0.25 | 0.23 | |

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 17T282585

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 08, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|------|--------|------|------|-----------------------------|------|-----|-----|------|--------------------|-----|------|------|--|
| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl | |
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | |
| RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | 0.01 | |
| J6 (8894045) | 10.5 | 48.2 | <0.002 | 0.03 | 0.16 | 7.1 | 0.7 | 0.9 | 279 | 0.32 | <0.01 | 7.4 | 0.24 | 0.25 | |
| J7 (8894046) | 11.7 | 50.6 | <0.002 | 0.03 | 0.23 | 7.2 | 0.7 | 1.0 | 270 | 0.34 | <0.01 | 4.5 | 0.26 | 0.25 | |
| J8 (8894047) | 10.3 | 48.3 | <0.002 | 0.03 | 0.13 | 7.6 | 0.5 | 0.8 | 265 | 0.30 | 0.01 | 2.7 | 0.23 | 0.23 | |
| J9 (8894048) | 11.8 | 50.1 | <0.002 | 0.04 | 0.26 | 8.7 | 0.6 | 1.2 | 208 | 0.35 | 0.01 | 4.3 | 0.29 | 0.27 | |
| J10 (8894049) | 10.7 | 45.9 | <0.002 | 0.04 | 0.15 | 8.5 | 0.8 | 0.9 | 269 | 0.35 | <0.01 | 3.2 | 0.25 | 0.25 | |
| J11 (8894050) | 10.4 | 50.1 | <0.002 | 0.03 | 0.12 | 6.7 | <0.5 | 0.8 | 279 | 0.21 | <0.01 | 2.2 | 0.19 | 0.26 | |
| J12 (8894051) | 10.8 | 47.9 | <0.002 | 0.03 | 0.12 | 6.8 | 0.6 | 0.8 | 272 | 0.23 | <0.01 | 4.8 | 0.21 | 0.25 | |
| J13 (8894052) | 17.0 | 50.1 | <0.002 | 0.03 | 0.12 | 8.2 | 0.6 | 0.9 | 280 | 0.45 | <0.01 | 2.8 | 0.25 | 0.25 | |
| J14 (8894053) | 11.0 | 51.9 | <0.002 | 0.03 | 0.12 | 6.8 | <0.5 | 0.7 | 285 | 0.21 | 0.01 | 2.8 | 0.20 | 0.27 | |
| J15 (8894054) | 12.2 | 50.3 | <0.002 | 0.03 | 0.16 | 8.8 | 0.7 | 0.9 | 288 | 0.28 | <0.01 | 9.7 | 0.26 | 0.29 | |
| J16 (8894055) | 11.3 | 49.9 | <0.002 | 0.03 | 0.15 | 7.9 | 0.7 | 0.9 | 282 | 0.25 | 0.02 | 3.0 | 0.24 | 0.26 | |
| J17 (8894056) | 11.4 | 50.2 | <0.002 | 0.03 | 0.13 | 8.9 | 0.9 | 1.1 | 296 | 0.31 | 0.01 | 7.2 | 0.23 | 0.27 | |
| J18 (8894057) | 12.0 | 49.4 | <0.002 | 0.05 | 0.23 | 9.0 | 0.9 | 1.1 | 212 | 0.35 | 0.03 | 3.2 | 0.31 | 0.26 | |
| J19 (8894058) | 11.1 | 48.6 | <0.002 | 0.03 | 0.10 | 6.9 | <0.5 | 0.8 | 285 | 0.21 | 0.02 | 2.6 | 0.20 | 0.26 | |
| J20 (8894059) | 10.4 | 48.0 | <0.002 | 0.03 | 0.14 | 6.4 | 0.6 | 0.9 | 293 | 0.20 | <0.01 | 1.6 | 0.18 | 0.25 | |
| J21 (8894060) | 10.8 | 47.6 | <0.002 | 0.04 | 0.19 | 9.1 | 0.7 | 1.1 | 258 | 0.32 | <0.01 | 6.8 | 0.34 | 0.23 | |
| J22 (8894061) | 10.9 | 52.7 | <0.002 | 0.03 | 0.18 | 7.6 | 0.5 | 0.8 | 287 | 0.27 | <0.01 | 2.5 | 0.24 | 0.24 | |
| J23 (8894062) | 10.7 | 52.8 | <0.002 | 0.03 | 0.12 | 7.1 | 0.5 | 0.8 | 282 | 0.23 | 0.02 | 2.7 | 0.20 | 0.27 | |
| J24 (8894063) | 11.6 | 48.5 | <0.002 | 0.04 | 0.12 | 7.7 | 0.7 | 0.9 | 273 | 0.27 | <0.01 | 2.8 | 0.23 | 0.26 | |
| J25 (8894064) | 11.0 | 48.7 | <0.002 | 0.03 | 0.11 | 9.9 | 0.6 | 1.0 | 298 | 0.29 | <0.01 | 9.2 | 0.33 | 0.24 | |
| J26 (8894065) | 11.3 | 54.5 | <0.002 | 0.04 | 0.20 | 8.5 | 0.8 | 1.1 | 241 | 0.31 | <0.01 | 3.5 | 0.28 | 0.26 | |
| J27 (8894066) | 11.3 | 52.5 | <0.002 | 0.04 | 0.18 | 8.3 | 1.1 | 2.4 | 243 | 0.33 | <0.01 | 9.5 | 0.27 | 0.28 | |
| J28 (8894067) | 11.0 | 51.9 | <0.002 | 0.04 | 0.11 | 8.4 | 0.7 | 0.9 | 269 | 0.31 | <0.01 | 3.9 | 0.27 | 0.26 | |
| J29 (8894068) | 10.7 | 40.9 | <0.002 | 0.05 | 0.18 | 11.2 | 1.0 | 1.1 | 257 | 0.39 | 0.02 | 4.8 | 0.42 | 0.23 | |
| J30 (8894069) | 10.9 | 49.2 | <0.002 | 0.04 | 0.12 | 7.8 | 0.7 | 0.9 | 285 | 0.24 | 0.01 | 2.9 | 0.21 | 0.25 | |
| J31 (8894070) | 10.7 | 49.2 | <0.002 | 0.03 | 0.12 | 8.3 | 0.7 | 0.9 | 296 | 0.23 | <0.01 | 4.2 | 0.26 | 0.25 | |
| J32 (8894071) | 11.1 | 51.1 | <0.002 | 0.03 | 0.10 | 7.9 | <0.5 | 0.9 | 293 | 0.25 | 0.01 | 3.1 | 0.25 | 0.25 | |
| J33 (8894072) | 10.9 | 48.9 | <0.002 | 0.04 | 0.13 | 8.9 | 0.7 | 0.9 | 293 | 0.30 | <0.01 | 4.0 | 0.29 | 0.24 | |
| K1 (8894073) | 10.6 | 51.6 | <0.002 | 0.03 | 0.20 | 8.4 | 0.7 | 1.0 | 279 | 0.29 | 0.01 | 3.5 | 0.25 | 0.25 | |
| K2 (8894074) | 11.2 | 56.3 | <0.002 | 0.03 | 0.12 | 8.1 | 0.7 | 1.0 | 278 | 0.29 | <0.01 | 2.8 | 0.26 | 0.26 | |
| K3 (8894075) | 11.3 | 57.8 | <0.002 | 0.03 | 0.12 | 8.3 | 0.7 | 1.0 | 266 | 0.30 | <0.01 | 3.1 | 0.29 | 0.28 | |
| K4 (8894076) | 11.4 | 47.1 | <0.002 | 0.05 | 0.27 | 10.1 | 1.1 | 1.1 | 256 | 0.40 | 0.05 | 5.2 | 0.38 | 0.26 | |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282585

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 08, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|------|--------|------|------|-----------------------------|-----|-----|-----|------|--------------------|-----|------|------|--|
| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl | |
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | |
| RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | 0.01 | |
| Sample ID (AGAT ID) | | | | | | | | | | | | | | | |
| K5 (8894077) | 10.5 | 51.9 | <0.002 | 0.03 | 0.15 | 7.8 | 0.6 | 1.4 | 269 | 0.25 | <0.01 | 2.8 | 0.25 | 0.27 | |
| K6 (8894078) | 11.8 | 48.8 | <0.002 | 0.05 | 0.18 | 8.8 | 0.7 | 1.1 | 233 | 0.40 | 0.02 | 4.5 | 0.32 | 0.26 | |
| K7 (8894079) | 12.0 | 50.7 | <0.002 | 0.04 | 0.16 | 8.7 | 0.6 | 1.0 | 277 | 0.30 | <0.01 | 4.7 | 0.31 | 0.25 | |
| K8 (8894080) | 10.3 | 50.3 | <0.002 | 0.05 | 0.15 | 7.8 | 0.7 | 0.8 | 286 | 0.29 | 0.02 | 1.9 | 0.26 | 0.24 | |
| K9 (8894081) | 11.7 | 60.6 | <0.002 | 0.04 | 0.16 | 7.6 | 0.6 | 1.1 | 219 | 0.37 | 0.01 | 4.6 | 0.28 | 0.31 | |
| K10 (8894082) | 21.7 | 53.4 | <0.002 | 0.08 | 0.49 | 11.7 | 1.2 | 1.2 | 144 | 0.46 | 0.10 | 7.8 | 0.50 | 0.27 | |
| K11 (8894083) | 11.7 | 50.3 | <0.002 | 0.05 | 0.17 | 8.9 | 1.0 | 1.2 | 233 | 0.40 | 0.02 | 3.5 | 0.32 | 0.27 | |
| K12 (8894084) | 11.6 | 56.0 | <0.002 | 0.04 | 0.21 | 9.0 | 0.9 | 1.0 | 235 | 0.42 | 0.02 | 5.3 | 0.28 | 0.30 | |

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Certificate of Analysis

AGAT WORK ORDER: 17T282585

PROJECT:

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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | DATE REPORTED: Jan 08, 2018 | | | SAMPLE TYPE: Other |
|----------------------------|-----------------------------|------|-----|-----------------------------|------|------|--------------------|
| Analyte: | U | V | W | Y | Zn | Zr | |
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm | |
| RDL: | 0.005 | 0.5 | 0.1 | 0.1 | 0.5 | 0.5 | |
| I14 (8894013) | 0.792 | 54.4 | 0.4 | 8.7 | 34.1 | 107 | |
| I15 (8894014) | 0.831 | 68.1 | 0.4 | 8.4 | 37.5 | 92.6 | |
| I16 (8894015) | 0.959 | 59.5 | 0.4 | 8.2 | 41.0 | 115 | |
| I17 (8894016) | 2.42 | 61.8 | 0.3 | 8.6 | 44.7 | 118 | |
| I18 (8894017) | 1.09 | 69.1 | 0.4 | 9.0 | 53.7 | 89.4 | |
| I19 (8894018) | 1.18 | 74.0 | 0.5 | 8.1 | 57.4 | 112 | |
| I20 (8894019) | 0.994 | 62.4 | 0.4 | 8.3 | 67.9 | 117 | |
| I21 (8894020) | 1.12 | 79.2 | 0.4 | 10.5 | 46.6 | 113 | |
| I22 (8894021) | 0.607 | 47.9 | 0.3 | 7.5 | 27.4 | 81.7 | |
| I23 (8894022) | 0.654 | 57.8 | 0.3 | 8.4 | 27.2 | 78.2 | |
| I24 (8894023) | 0.667 | 54.1 | 0.3 | 7.0 | 71.5 | 74.0 | |
| I25 (8894024) | 1.03 | 66.9 | 0.5 | 7.0 | 61.9 | 114 | |
| I26 (8894025) | 0.812 | 59.6 | 0.3 | 7.4 | 48.8 | 105 | |
| I27 (8894026) | 0.533 | 65.9 | 0.2 | 7.5 | 30.2 | 59.2 | |
| I28 (8894027) | 0.771 | 68.7 | 0.3 | 9.3 | 37.1 | 97.4 | |
| I29 (8894028) | 0.883 | 73.2 | 0.3 | 9.1 | 33.7 | 127 | |
| I30 (8894029) | 0.752 | 48.9 | 0.3 | 7.1 | 28.0 | 110 | |
| I31 (8894030) | 0.681 | 58.5 | 0.3 | 7.8 | 40.0 | 101 | |
| I32 (8894031) | 0.758 | 59.4 | 0.3 | 7.6 | 34.4 | 116 | |
| I33 (8894032) | 0.520 | 49.2 | 0.4 | 6.0 | 35.9 | 63.8 | |
| I34 (8894033) | 0.562 | 49.3 | 0.3 | 6.6 | 25.9 | 68.2 | |
| I35 (8894034) | 0.901 | 56.4 | 0.3 | 7.4 | 58.6 | 84.2 | |
| I36 (8894035) | 0.846 | 69.9 | 0.4 | 7.5 | 117 | 95.2 | |
| I37 (8894036) | 0.541 | 41.4 | 0.2 | 5.4 | 35.4 | 77.0 | |
| I38 (8894037) | 0.787 | 52.8 | 0.3 | 7.2 | 53.1 | 116 | |
| I39 (8894038) | 0.781 | 60.6 | 0.4 | 7.9 | 88.8 | 107 | |
| I40 (8894039) | 1.36 | 119 | 0.6 | 10.7 | 94.1 | 99.1 | |
| J1 (8894040) | 0.813 | 52.8 | 0.3 | 7.2 | 23.8 | 118 | |
| J2 (8894041) | 0.713 | 47.3 | 0.2 | 7.0 | 25.7 | 93.6 | |
| J3 (8894042) | 0.711 | 53.1 | 0.4 | 7.5 | 35.7 | 115 | |
| J4 (8894043) | 0.793 | 58.1 | 0.3 | 8.2 | 36.1 | 123 | |
| J5 (8894044) | 1.08 | 60.0 | 0.3 | 9.0 | 42.6 | 108 | |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282585

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
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 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | DATE REPORTED: Jan 08, 2018 | | | SAMPLE TYPE: Other |
|----------------------------|-----------------------------|-------|------|-----------------------------|------|------|--------------------|
| Analyte: | U | V | W | Y | Zn | Zr | |
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm | |
| Sample ID (AGAT ID) | RDL: | 0.005 | 0.5 | 0.1 | 0.1 | 0.5 | 0.5 |
| J6 (8894045) | | 0.795 | 50.0 | 0.2 | 7.5 | 41.8 | 125 |
| J7 (8894046) | | 0.759 | 59.4 | 0.3 | 7.6 | 33.0 | 87.3 |
| J8 (8894047) | | 0.671 | 52.5 | 0.2 | 7.4 | 35.2 | 90.0 |
| J9 (8894048) | | 1.10 | 66.4 | 0.5 | 8.6 | 48.3 | 123 |
| J10 (8894049) | | 0.733 | 60.3 | 0.2 | 8.0 | 33.6 | 99.0 |
| J11 (8894050) | | 0.573 | 48.9 | 0.2 | 6.6 | 26.7 | 85.8 |
| J12 (8894051) | | 0.694 | 54.3 | 0.2 | 7.5 | 43.1 | 71.6 |
| J13 (8894052) | | 0.696 | 57.3 | 0.2 | 8.4 | 31.4 | 102 |
| J14 (8894053) | | 0.634 | 50.0 | 0.2 | 8.0 | 31.4 | 64.3 |
| J15 (8894054) | | 1.35 | 56.7 | 0.2 | 14.9 | 28.4 | 125 |
| J16 (8894055) | | 0.664 | 61.9 | 5.4 | 8.3 | 31.5 | 86.5 |
| J17 (8894056) | | 1.41 | 55.2 | 0.3 | 16.6 | 28.6 | 103 |
| J18 (8894057) | | 0.999 | 77.8 | 0.4 | 9.1 | 43.9 | 103 |
| J19 (8894058) | | 0.580 | 50.5 | 0.2 | 6.9 | 25.7 | 75.0 |
| J20 (8894059) | | 0.469 | 50.5 | 0.2 | 6.4 | 37.4 | 59.1 |
| J21 (8894060) | | 1.09 | 84.0 | 0.3 | 11.8 | 53.4 | 136 |
| J22 (8894061) | | 0.584 | 65.2 | 0.2 | 7.6 | 41.3 | 59.7 |
| J23 (8894062) | | 0.591 | 51.2 | 0.2 | 6.7 | 28.3 | 80.4 |
| J24 (8894063) | | 0.612 | 58.5 | 0.2 | 7.4 | 44.7 | 62.9 |
| J25 (8894064) | | 1.02 | 82.5 | 0.2 | 12.0 | 35.5 | 125 |
| J26 (8894065) | | 0.793 | 62.1 | 0.4 | 8.6 | 32.2 | 105 |
| J27 (8894066) | | 0.758 | 66.5 | 0.3 | 8.6 | 30.8 | 80.9 |
| J28 (8894067) | | 0.800 | 68.4 | 0.2 | 9.6 | 33.7 | 103 |
| J29 (8894068) | | 0.990 | 102 | 0.3 | 11.8 | 47.5 | 126 |
| J30 (8894069) | | 0.610 | 56.1 | 0.3 | 7.5 | 37.8 | 68.3 |
| J31 (8894070) | | 0.582 | 66.7 | 0.2 | 8.4 | 35.9 | 78.8 |
| J32 (8894071) | | 0.661 | 62.9 | 0.2 | 8.4 | 37.1 | 93.1 |
| J33 (8894072) | | 0.727 | 75.0 | 0.2 | 9.3 | 29.5 | 115 |
| K1 (8894073) | | 0.664 | 61.0 | 0.2 | 9.1 | 52.0 | 108 |
| K2 (8894074) | | 0.774 | 63.4 | 0.3 | 8.9 | 52.3 | 110 |
| K3 (8894075) | | 0.748 | 60.4 | 0.3 | 8.4 | 44.1 | 110 |
| K4 (8894076) | | 1.16 | 91.0 | 0.4 | 12.9 | 56.7 | 175 |

Certified By:

Certificate of Analysis

AGAT WORK ORDER: 17T282585

PROJECT:

 5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 08, 2018

SAMPLE TYPE: Other

| Analyte: | U | V | W | Y | Zn | Zr |
|---------------------|-------|------|-----|------|------|------|
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm |
| Sample ID (AGAT ID) | RDL: | | | | | |
| K5 (8894077) | 0.667 | 57.0 | 0.2 | 7.9 | 41.2 | 109 |
| K6 (8894078) | 0.942 | 68.6 | 0.3 | 9.7 | 84.3 | 136 |
| K7 (8894079) | 0.796 | 77.9 | 0.2 | 10.6 | 35.2 | 76.0 |
| K8 (8894080) | 0.682 | 59.9 | 0.2 | 8.3 | 25.9 | 77.2 |
| K9 (8894081) | 1.08 | 56.8 | 0.3 | 8.8 | 27.3 | 114 |
| K10 (8894082) | 1.52 | 113 | 0.6 | 10.8 | 75.0 | 105 |
| K11 (8894083) | 0.862 | 70.2 | 0.4 | 9.1 | 57.4 | 103 |
| K12 (8894084) | 0.891 | 59.9 | 0.4 | 8.7 | 44.2 | 106 |

Comments: RDL - Reported Detection Limit

8894013-8894084 As, Sb values may be low due to digestion losses.

Certified By:





CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| Parameter | REPLICATE #1 | | | | REPLICATE #2 | | | | REPLICATE #3 | | | | REPLICATE #4 | | | |
|-----------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|
| | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD |
| Ag | 8894013 | 0.23 | 0.29 | 23.1% | 8894033 | 0.19 | 0.12 | | 8894053 | 0.12 | 0.47 | | 8894074 | 0.16 | 0.27 | |
| Al | 8894013 | 6.68 | 6.61 | 1.1% | 8894033 | 6.42 | 6.91 | 7.4% | 8894053 | 6.48 | 6.38 | 1.6% | 8894074 | 6.59 | 6.43 | 2.5% |
| As | 8894013 | 2.9 | 1.9 | | 8894033 | 1.9 | 2.1 | 10.0% | 8894053 | 3.42 | 4.12 | 18.6% | 8894074 | 2.5 | 2.0 | 22.2% |
| Ba | 8894013 | 496 | 494 | 0.4% | 8894033 | 514 | 546 | 6.0% | 8894053 | 547 | 535 | 2.2% | 8894074 | 530 | 505 | 4.8% |
| Be | 8894013 | 1.19 | 1.07 | 10.6% | 8894033 | 1.13 | 1.46 | 25.5% | 8894053 | 1.26 | 1.39 | 9.8% | 8894074 | 1.22 | 1.25 | 2.4% |
| Bi | 8894013 | 0.092 | 0.109 | 16.9% | 8894033 | 0.07 | 0.07 | 0.0% | 8894053 | 0.10 | 0.10 | 0.0% | 8894074 | 0.09 | 0.09 | 0.0% |
| Ca | 8894013 | 1.39 | 1.41 | 1.4% | 8894033 | 1.40 | 1.56 | 10.8% | 8894053 | 1.35 | 1.34 | 0.7% | 8894074 | 1.49 | 1.46 | 2.0% |
| Cd | 8894013 | 0.07 | 0.08 | 13.3% | 8894033 | 0.04 | 0.05 | 22.2% | 8894053 | 0.04 | 0.04 | 0.0% | 8894074 | 0.088 | 0.075 | 16.0% |
| Ce | 8894013 | 29.1 | 36.2 | 21.7% | 8894033 | 17.6 | 20.6 | 15.7% | 8894053 | 24.1 | 24.7 | 2.5% | 8894074 | 20.4 | 19.2 | 6.1% |
| Co | 8894013 | 11.4 | 11.6 | 1.7% | 8894033 | 9.26 | 9.25 | 0.1% | 8894053 | 8.66 | 8.47 | 2.2% | 8894074 | 9.27 | 8.99 | 3.1% |
| Cr | 8894013 | 57.4 | 57.0 | 0.7% | 8894033 | 46.9 | 51.7 | 9.7% | 8894053 | 54.3 | 52.9 | 2.6% | 8894074 | 49.3 | 54.5 | 10.0% |
| Cs | 8894013 | 1.17 | 1.17 | 0.0% | 8894033 | 0.930 | 0.966 | 3.8% | 8894053 | 1.12 | 1.13 | 0.9% | 8894074 | 1.37 | 1.26 | 8.4% |
| Cu | 8894013 | 11.4 | 11.6 | 1.7% | 8894033 | 7.5 | 8.2 | 8.9% | 8894053 | 12.0 | 11.8 | 1.7% | 8894074 | 6.3 | 6.6 | 4.7% |
| Fe | 8894013 | 2.26 | 2.26 | 0.0% | 8894033 | 1.97 | 2.19 | 10.6% | 8894053 | 2.12 | 2.04 | 3.8% | 8894074 | 2.52 | 2.51 | 0.4% |
| Ga | 8894013 | 14.5 | 14.0 | 3.5% | 8894033 | 13.3 | 13.2 | 0.8% | 8894053 | 14.7 | 14.9 | 1.4% | 8894074 | 15.6 | 15.8 | 1.3% |
| Ge | 8894013 | < 0.05 | < 0.05 | 0.0% | 8894033 | < 0.05 | < 0.05 | 0.0% | 8894053 | < 0.05 | < 0.05 | 0.0% | 8894074 | < 0.05 | < 0.05 | 0.0% |
| Hf | 8894013 | 2.7 | 2.7 | 0.0% | 8894033 | 1.9 | 1.5 | 23.5% | 8894053 | 1.6 | 1.6 | 0.0% | 8894074 | 2.4 | 2.5 | 4.1% |
| In | 8894013 | 0.0242 | 0.0262 | 7.9% | 8894033 | 0.0220 | 0.0191 | 14.1% | 8894053 | 0.020 | 0.021 | 4.9% | 8894074 | 0.0233 | 0.0260 | 11.0% |
| K | 8894013 | 1.53 | 1.51 | 1.3% | 8894033 | 1.57 | 1.69 | 7.4% | 8894053 | 1.64 | 1.62 | 1.2% | 8894074 | 1.65 | 1.59 | 3.7% |
| La | 8894013 | 11.6 | 15.4 | 28.1% | 8894033 | 7.8 | 9.1 | 15.4% | 8894053 | 9.9 | 9.7 | 2.0% | 8894074 | 9.7 | 9.0 | 7.5% |
| Li | 8894013 | 13.5 | 13.5 | 0.0% | 8894033 | 11.9 | 12.6 | 5.7% | 8894053 | 13.4 | 13.1 | 2.3% | 8894074 | 15.0 | 15.0 | 0.0% |
| Mg | 8894013 | 0.672 | 0.665 | 1.0% | 8894033 | 0.613 | 0.687 | 11.4% | 8894053 | 0.62 | 0.61 | 1.6% | 8894074 | 0.668 | 0.655 | 2.0% |
| Mn | 8894013 | 278 | 283 | 1.8% | 8894033 | 285 | 316 | 10.3% | 8894053 | 289 | 283 | 2.1% | 8894074 | 342 | 342 | 0.0% |
| Mo | 8894013 | 0.456 | 0.465 | 2.0% | 8894033 | 0.53 | 0.31 | | 8894053 | 0.413 | 0.417 | 1.0% | 8894074 | 0.438 | 0.445 | 1.6% |
| Na | 8894013 | 1.99 | 1.99 | 0.0% | 8894033 | 2.21 | 2.40 | 8.2% | 8894053 | 2.28 | 2.25 | 1.3% | 8894074 | 2.09 | 2.05 | 1.9% |
| Nb | 8894013 | 5.4 | 5.3 | 1.9% | 8894033 | 4.5 | 4.0 | 11.8% | 8894053 | 3.6 | 3.8 | 5.4% | 8894074 | 5.33 | 5.37 | 0.7% |
| Ni | 8894013 | 30.5 | 29.9 | 2.0% | 8894033 | 28.6 | 30.4 | 6.1% | 8894053 | 26.4 | 26.6 | 0.8% | 8894074 | 29.5 | 29.3 | 0.7% |
| P | 8894013 | 348 | 344 | 1.2% | 8894033 | 376 | 426 | 12.5% | 8894053 | 247 | 260 | 5.1% | 8894074 | 556 | 532 | 4.4% |
| Pb | 8894013 | 12.1 | 12.6 | 4.0% | 8894033 | 10.7 | 10.4 | 2.8% | 8894053 | 11.0 | 11.1 | 0.9% | 8894074 | 11.2 | 11.2 | 0.0% |
| Rb | 8894013 | 44.0 | 42.3 | 3.9% | 8894033 | 47.6 | 47.4 | 0.4% | 8894053 | 51.9 | 52.0 | 0.2% | 8894074 | 56.3 | 52.3 | 7.4% |
| Re | 8894013 | < 0.002 | < 0.002 | 0.0% | 8894033 | < 0.002 | < 0.002 | 0.0% | 8894053 | < 0.002 | < 0.002 | 0.0% | 8894074 | < 0.002 | < 0.002 | 0.0% |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

| | | | | | | | | | | | | | | | | |
|----|---------|--------|-------|-------|---------|-------|-------|-------|---------|-------|--------|-------|---------|--------|--------|------|
| S | 8894013 | 0.04 | 0.04 | 0.0% | 8894033 | 0.03 | 0.03 | 0.0% | 8894053 | 0.03 | 0.03 | 0.0% | 8894074 | 0.03 | 0.03 | 0.0% |
| Sb | 8894013 | 0.13 | 0.13 | 0.0% | 8894033 | 0.18 | 0.14 | 25.0% | 8894053 | 0.12 | 0.14 | 15.4% | 8894074 | 0.121 | 0.114 | 6.0% |
| Sc | 8894013 | 8.6 | 8.6 | 0.0% | 8894033 | 7.0 | 7.4 | 5.6% | 8894053 | 6.8 | 6.8 | 0.0% | 8894074 | 8.1 | 7.8 | 3.8% |
| Se | 8894013 | 0.9 | 0.9 | 0.0% | 8894033 | 0.6 | 0.6 | 0.0% | 8894053 | < 0.5 | 0.6 | | 8894074 | 0.7 | < 0.5 | |
| Sn | 8894013 | 0.9 | 0.9 | 0.0% | 8894033 | 1.5 | 0.8 | | 8894053 | 0.7 | 0.8 | 13.3% | 8894074 | 0.95 | 0.92 | 3.2% |
| Sr | 8894013 | 263 | 258 | 1.9% | 8894033 | 297 | 310 | 4.3% | 8894053 | 285 | 292 | 2.4% | 8894074 | 278 | 272 | 2.2% |
| Ta | 8894013 | 0.40 | 0.40 | 0.0% | 8894033 | 0.38 | 0.33 | 14.1% | 8894053 | 0.21 | 0.21 | 0.0% | 8894074 | 0.292 | 0.307 | 5.0% |
| Te | 8894013 | < 0.01 | 0.02 | | 8894033 | 0.05 | 0.02 | | 8894053 | 0.01 | < 0.01 | | 8894074 | < 0.01 | < 0.01 | 0.0% |
| Th | 8894013 | 3.33 | 4.50 | 29.9% | 8894033 | 2.6 | 3.0 | 14.3% | 8894053 | 2.8 | 3.2 | 13.3% | 8894074 | 2.8 | 2.7 | 3.6% |
| Ti | 8894013 | 0.24 | 0.24 | 0.0% | 8894033 | 0.20 | 0.22 | 9.5% | 8894053 | 0.195 | 0.191 | 2.1% | 8894074 | 0.261 | 0.276 | 5.6% |
| Tl | 8894013 | 0.256 | 0.249 | 2.8% | 8894033 | 0.25 | 0.24 | 4.1% | 8894053 | 0.27 | 0.27 | 0.0% | 8894074 | 0.257 | 0.265 | 3.1% |
| U | 8894013 | 0.792 | 1.09 | | 8894033 | 0.562 | 0.655 | 15.3% | 8894053 | 0.634 | 0.660 | 4.0% | 8894074 | 0.774 | 0.740 | 4.5% |
| V | 8894013 | 54.4 | 53.7 | 1.3% | 8894033 | 49.3 | 51.8 | 4.9% | 8894053 | 50.0 | 50.8 | 1.6% | 8894074 | 63.4 | 63.9 | 0.8% |
| W | 8894013 | 0.36 | 0.32 | 11.8% | 8894033 | 0.28 | 0.22 | 24.0% | 8894053 | 0.2 | 0.2 | 0.0% | 8894074 | 0.3 | 0.3 | 0.0% |
| Y | 8894013 | 8.69 | 8.88 | 2.2% | 8894033 | 6.63 | 6.93 | 4.4% | 8894053 | 7.99 | 8.46 | 5.7% | 8894074 | 8.9 | 8.9 | 0.0% |
| Zn | 8894013 | 34.1 | 33.3 | 2.4% | 8894033 | 25.9 | 28.0 | 7.8% | 8894053 | 31.4 | 31.2 | 0.6% | 8894074 | 52.3 | 52.9 | 1.1% |
| Zr | 8894013 | 107 | 105 | 1.9% | 8894033 | 68.2 | 59.3 | 14.0% | 8894053 | 64.3 | 67.8 | 5.3% | 8894074 | 110 | 107 | 2.8% |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| Parameter | CRM #1 (ref.SY-4) | | | | CRM #2 (ref.GTS-2A) | | | | CRM #3 (ref.Till-2) | | | | CRM #4 (ref.SY-4) | | | |
|-----------|-------------------|--------|----------|------------|---------------------|--------|----------|------------|---------------------|--------|----------|------------|-------------------|--------|----------|------------|
| | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits |
| Al | 10.95 | 10.2 | 93% | 90% - 110% | 6.96 | 6.71 | 96% | 90% - 110% | | | | | | | | |
| As | | | | | 124 | 124 | 100% | 90% - 110% | | | | | | | | |
| Ba | 340 | 313 | 92% | 90% - 110% | 186 | 182 | 97% | 90% - 110% | | | | | | | | |
| Be | 2.6 | 2.8 | 107% | 90% - 110% | | | | | | | | | | | | |
| Ca | 5.72 | 5.26 | 91% | 90% - 110% | 4.01 | 3.86 | 96% | 90% - 110% | | | | | | | | |
| Ce | 122 | 114 | 93% | 90% - 110% | 24 | 22 | 91% | 90% - 110% | | | | | | | | |
| Co | 2.8 | 2.5 | 89% | 90% - 110% | 22.1 | 20.9 | 94% | 90% - 110% | | | | | | | | |
| Cs | 1.5 | 1.4 | 93% | 90% - 110% | | | | | | | | | | | | |
| Cu | | | | | 88.6 | 83.5 | 94% | 90% - 110% | | | | | | | | |
| Fe | 4.34 | 3.97 | 91% | 90% - 110% | 7.56 | 7.32 | 96% | 90% - 110% | | | | | | | | |
| Ga | 35 | 35 | 100% | 90% - 110% | | | | | | | | | | | | |
| Hf | 10.6 | 1.1 | | 90% - 110% | | | | | | | | | | | | |
| K | 1.37 | 1.29 | 94% | 90% - 110% | 2.021 | 1.929 | 95% | 90% - 110% | | | | | | | | |
| La | 58 | 53 | 91% | 90% - 110% | | | | | | | | | | | | |
| Li | 37 | 36 | 97% | 90% - 110% | | | | | | | | | | | | |
| Mg | 0.325 | 0.316 | 97% | 90% - 110% | 2.412 | 2.38 | 98% | 90% - 110% | | | | | | | | |
| Mn | | | | | 1510 | 1396 | 92% | 90% - 110% | | | | | | | | |
| Na | 5.267 | 4.981 | 94% | 90% - 110% | 0.617 | 0.609 | 98% | 90% - 110% | | | | | | | | |
| Nb | 13 | 14 | 107% | 90% - 110% | | | | | | | | | | | | |
| Ni | 9 | 7 | 77% | 90% - 110% | 77.1 | 69.9 | 90% | 90% - 110% | | | | | | | | |
| P | | | | | 892 | 983 | 110% | 90% - 110% | | | | | | | | |
| Pb | 10 | 9 | 90% | 90% - 110% | | | | | | | | | | | | |
| Rb | 55 | 50 | 90% | 90% - 110% | | | | | 143 | 140 | 97% | 90% - 110% | 55 | 55 | 100% | 90% - 110% |
| S | | | | | 0.348 | 0.388 | 111% | 90% - 110% | | | | | | | | |
| Sr | 1191 | 1081 | 90% | 90% - 110% | | | | | | | | | | | | |
| Ta | 0.9 | 1 | 111% | 90% - 110% | | | | | | | | | | | | |
| Th | 1.4 | 1.2 | 85% | 90% - 110% | | | | | | | | | | | | |
| Ti | 0.172 | 0.154 | 89% | 90% - 110% | | | | | | | | | | | | |
| V | 8 | 6 | 75% | 90% - 110% | | | | | | | | | | | | |
| Y | 119 | 118 | 99% | 90% - 110% | | | | | | | | | | | | |
| Zn | 93 | 84 | 90% | 90% - 110% | 208 | 199 | 95% | 90% - 110% | | | | | | | | |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

| Parameter | CRM #5 (ref.Till-2) | | | | CRM #6 (ref.SY-4) | | | | | | | | | | | |
|-----------|---------------------|--------|----------|------------|-------------------|--------|----------|------------|--|--|--|--|--|--|--|--|
| | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | | | | | | | | |
| Al | 8.17 | 7.97 | 97% | 90% - 110% | 10.95 | 10.61 | 96% | 90% - 110% | | | | | | | | |
| As | 26 | 27 | 103% | 90% - 110% | | | | | | | | | | | | |
| Ba | 540 | 518 | 95% | 90% - 110% | 340 | 329 | 96% | 90% - 110% | | | | | | | | |
| Be | 4.0 | 3.6 | 90% | 90% - 110% | 2.6 | 2.8 | 107% | 90% - 110% | | | | | | | | |
| Ca | 0.907 | 0.895 | 98% | 90% - 110% | 5.72 | 5.47 | 95% | 90% - 110% | | | | | | | | |
| Ce | 98 | 91 | 92% | 90% - 110% | 122 | 114 | 93% | 90% - 110% | | | | | | | | |
| Co | | | | | 2.8 | 2.5 | 89% | 90% - 110% | | | | | | | | |
| Cr | 60.3 | 54.5 | 90% | 90% - 110% | | | | | | | | | | | | |
| Cs | 12 | 11 | 91% | 90% - 110% | 1.5 | 1.6 | 106% | 90% - 110% | | | | | | | | |
| Cu | 150 | 140 | 93% | 90% - 110% | | | | | | | | | | | | |
| Fe | 3.77 | 3.68 | 97% | 90% - 110% | 4.34 | 4.16 | 95% | 90% - 110% | | | | | | | | |
| Ga | | | | | 35 | 37 | 105% | 90% - 110% | | | | | | | | |
| Hf | | | | | 10.6 | 1.1 | | 90% - 110% | | | | | | | | |
| K | | | | | 1.37 | 1.33 | 97% | 90% - 110% | | | | | | | | |
| La | 44 | 40 | 90% | 90% - 110% | 58 | 53 | 91% | 90% - 110% | | | | | | | | |
| Li | 47 | 43 | 91% | 90% - 110% | 37 | 36 | 97% | 90% - 110% | | | | | | | | |
| Mg | 1.10 | 1.06 | 96% | 90% - 110% | 0.325 | 0.296 | 91% | 90% - 110% | | | | | | | | |
| Mn | 780 | 715 | 91% | 90% - 110% | | | | | | | | | | | | |
| Mo | 14 | 13 | 92% | 90% - 110% | | | | | | | | | | | | |
| Na | 1.624 | 1.619 | 99% | 90% - 110% | 5.267 | 5.18 | 98% | 90% - 110% | | | | | | | | |
| Nb | | | | | 13 | 14 | 107% | 90% - 110% | | | | | | | | |
| Ni | 32 | 32 | 100% | 90% - 110% | 9 | 8 | 88% | 90% - 110% | | | | | | | | |
| Pb | 31 | 29 | 93% | 90% - 110% | 10 | 9 | 90% | 90% - 110% | | | | | | | | |
| Rb | | | | | 55 | 60 | 109% | 90% - 110% | | | | | | | | |
| Sb | 0.8 | 0.8 | 100% | 90% - 110% | | | | | | | | | | | | |
| Sc | 12 | 12 | 100% | 90% - 110% | | | | | | | | | | | | |
| Ta | | | | | 0.9 | 0.8 | 88% | 90% - 110% | | | | | | | | |
| Th | 18.4 | 17.2 | 93% | 90% - 110% | 1.4 | 1.4 | 100% | 90% - 110% | | | | | | | | |
| Ti | | | | | 0.172 | 0.161 | 93% | 90% - 110% | | | | | | | | |
| V | 77 | 72 | 93% | 90% - 110% | | | | | | | | | | | | |
| Y | | | | | 119 | 130 | 109% | 90% - 110% | | | | | | | | |
| Zn | 130 | 120 | 92% | 90% - 110% | 93 | 87 | 93% | 90% - 110% | | | | | | | | |

Method Summary

CLIENT NAME: CRUZ COBALT CORP.

AGAT WORK ORDER: 17T282585

PROJECT:

ATTENTION TO: Jason Gigliotti, Jim Nelson

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|----------------|---------------|----------------------|----------------------|
| Solid Analysis | | | |
| Ag | MIN-200-12020 | | ICP-MS |
| Al | MIN-200-12020 | | ICP/OES |
| As | MIN-200-12020 | | ICP-MS |
| Ba | MIN-200-12020 | | ICP-MS |
| Be | MIN-200-12020 | | ICP-MS |
| Bi | MIN-200-12020 | | ICP-MS |
| Ca | MIN-200-12020 | | ICP/OES |
| Cd | MIN-200-12020 | | ICP-MS |
| Ce | MIN-200-12020 | | ICP-MS |
| Co | MIN-200-12020 | | ICP-MS |
| Cr | MIN-200-12020 | | ICP/OES |
| Cs | MIN-200-12020 | | ICP-MS |
| Cu | MIN-200-12020 | | ICP-MS |
| Fe | MIN-200-12020 | | ICP/OES |
| Ga | MIN-200-12020 | | ICP-MS |
| Ge | MIN-200-12020 | | ICP-MS |
| Hf | MIN-200-12020 | | ICP-MS |
| In | MIN-200-12020 | | ICP-MS |
| K | MIN-200-12020 | | ICP/OES |
| La | MIN-200-12020 | | ICP-MS |
| Li | MIN-200-12020 | | ICP-MS |
| Mg | MIN-200-12020 | | ICP/OES |
| Mn | MIN-200-12020 | | ICP/OES |
| Mo | MIN-200-12020 | | ICP-MS |
| Na | MIN-200-12020 | | ICP/OES |
| Nb | MIN-200-12020 | | ICP-MS |
| Ni | MIN-200-12020 | | ICP-MS |
| P | MIN-200-12020 | | ICP/OES |
| Pb | MIN-200-12020 | | ICP-MS |
| Rb | MIN-200-12020 | | ICP-MS |
| Re | MIN-200-12020 | | ICP-MS |
| S | MIN-200-12020 | | ICP/OES |
| Sb | MIN-200-12020 | | ICP-MS |
| Sc | MIN-200-12020 | | ICP-MS |
| Se | MIN-200-12020 | | ICP-MS |
| Sn | MIN-200-12020 | | ICP-MS |
| Sr | MIN-200-12020 | | ICP-MS |
| Ta | MIN-200-12020 | | ICP-MS |
| Te | MIN-200-12020 | | ICP-MS |
| Th | MIN-200-12020 | | ICP-MS |
| Ti | MIN-200-12020 | | ICP/OES |
| Tl | MIN-200-12020 | | ICP-MS |
| U | MIN-200-12020 | | ICP-MS |
| V | MIN-200-12020 | | ICP/OES |
| W | MIN-200-12020 | | ICP-MS |
| Y | MIN-200-12020 | | ICP-MS |
| Zn | MIN-200-12020 | | ICP-MS |
| Zr | MIN-200-12020 | | ICP-MS |

CLIENT NAME: CRUZ COBALT CORP.
P.O BOX 10112 1470-701 W. GEORGIA ST
VANCOUVER, BC V7Y 1C6
604-646-6908

ATTENTION TO: Jason Gigliotti, Jim Nelson

PROJECT:

AGAT WORK ORDER: 17T282586

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Jan 03, 2018

PAGES (INCLUDING COVER): 18

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 17T282586

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 03, 2018

SAMPLE TYPE: Other

| Analyte: | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs | Cu | Fe |
|---------------|------|------|-----|-----|------|------|------|-------|------|------|------|------|------|------|
| Unit: | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % |
| RDL: | 0.01 | 0.01 | 0.2 | 1 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.05 | 0.5 | 0.01 | 0.5 | 0.01 |
| K13 (8894159) | 0.25 | 7.03 | 1.6 | 515 | 1.56 | 0.10 | 1.36 | 0.07 | 33.8 | 16.3 | 71.7 | 1.84 | 8.2 | 2.35 |
| K14 (8894160) | 0.38 | 6.44 | 2.0 | 515 | 1.45 | 0.09 | 1.51 | 0.04 | 30.1 | 11.5 | 57.2 | 1.49 | 6.2 | 2.28 |
| K15 (8894161) | 0.36 | 7.09 | 4.1 | 492 | 1.65 | 0.13 | 1.57 | 0.08 | 29.6 | 16.4 | 83.4 | 2.04 | 9.5 | 3.36 |
| K16 (8894162) | 0.35 | 5.86 | 2.6 | 462 | 1.39 | 0.08 | 1.44 | 0.05 | 30.8 | 10.4 | 54.0 | 1.22 | 5.2 | 1.99 |
| K17 (8894163) | 0.25 | 5.98 | 2.2 | 479 | 1.34 | 0.08 | 1.35 | 0.05 | 19.3 | 10.2 | 53.0 | 1.50 | 4.3 | 2.25 |
| K18 (8894164) | 0.52 | 7.42 | 4.8 | 472 | 1.68 | 0.19 | 1.56 | 0.13 | 24.3 | 31.7 | 82.9 | 2.77 | 14.0 | 4.69 |
| K19 (8894165) | 0.17 | 6.19 | 0.4 | 495 | 1.44 | 0.08 | 1.41 | 0.05 | 21.1 | 9.58 | 43.9 | 1.29 | 3.1 | 2.02 |
| L1 (8894166) | 0.22 | 7.48 | 2.2 | 452 | 1.52 | 0.10 | 1.24 | <0.02 | 24.1 | 11.7 | 53.6 | 1.42 | 3.0 | 2.40 |
| L2 (8894167) | 0.22 | 6.09 | 1.2 | 494 | 1.31 | 0.08 | 1.40 | 0.08 | 28.4 | 9.00 | 51.1 | 1.49 | 1.6 | 1.72 |
| L3 (8894168) | 0.26 | 6.89 | 1.8 | 493 | 1.60 | 0.08 | 1.53 | 0.07 | 34.4 | 13.8 | 63.4 | 1.43 | 2.6 | 2.15 |
| L4 (8894169) | 0.20 | 6.44 | 2.2 | 502 | 1.47 | 0.09 | 1.58 | 0.06 | 27.4 | 11.8 | 52.7 | 1.24 | 3.4 | 2.07 |
| L5 (8894170) | 0.19 | 6.59 | 1.1 | 499 | 1.44 | 0.07 | 1.48 | 0.06 | 22.7 | 10.8 | 51.6 | 1.37 | 2.9 | 2.06 |
| L6 (8894171) | 0.88 | 6.23 | 1.2 | 500 | 1.39 | 0.08 | 1.37 | 0.07 | 17.1 | 9.21 | 44.4 | 1.41 | 1.4 | 1.96 |
| L7 (8894172) | 0.26 | 6.05 | 1.8 | 505 | 1.78 | 0.06 | 1.39 | 0.03 | 23.2 | 8.76 | 46.0 | 1.22 | 3.3 | 1.70 |
| L8 (8894173) | 0.20 | 6.73 | 1.5 | 523 | 1.48 | 0.08 | 1.57 | 0.05 | 22.7 | 11.3 | 61.1 | 1.41 | 3.2 | 2.46 |
| L9 (8894174) | 0.19 | 5.43 | 1.7 | 522 | 1.07 | 0.08 | 1.15 | 0.06 | 19.0 | 4.35 | 31.2 | 1.27 | 0.9 | 1.30 |
| L10 (8894175) | 0.18 | 6.34 | 2.3 | 486 | 1.42 | 0.07 | 1.40 | 0.06 | 17.0 | 9.29 | 44.0 | 1.22 | 3.9 | 1.84 |
| L11 (8894176) | 0.17 | 6.97 | 3.3 | 499 | 1.58 | 0.07 | 1.55 | 0.05 | 17.9 | 11.5 | 55.6 | 1.38 | 4.0 | 2.23 |
| L12 (8894177) | 0.23 | 6.78 | 2.9 | 453 | 1.55 | 0.10 | 1.52 | 0.06 | 26.0 | 14.4 | 77.0 | 1.61 | 6.2 | 2.89 |
| L13 (8894178) | 0.17 | 6.05 | 2.3 | 479 | 1.40 | 0.08 | 1.50 | 0.04 | 32.7 | 12.0 | 72.2 | 1.36 | 9.1 | 2.47 |
| L14 (8894179) | 0.22 | 6.74 | 3.1 | 503 | 1.56 | 0.10 | 1.48 | 0.10 | 32.1 | 16.7 | 74.8 | 1.60 | 10.9 | 2.69 |
| L15 (8894180) | 0.32 | 6.73 | 0.9 | 410 | 1.59 | 0.11 | 1.45 | 0.09 | 20.1 | 16.5 | 87.7 | 1.76 | 8.0 | 3.22 |
| L16 (8894181) | 0.23 | 6.08 | 0.9 | 504 | 1.34 | 0.07 | 1.29 | 0.05 | 19.5 | 7.91 | 38.3 | 1.43 | 2.2 | 1.76 |
| L17 (8894182) | 0.27 | 6.60 | 1.3 | 505 | 1.47 | 0.08 | 1.30 | 0.06 | 24.2 | 12.6 | 53.1 | 1.41 | 4.2 | 2.02 |
| L18 (8894183) | 0.23 | 6.01 | 6.6 | 482 | 1.43 | 0.12 | 1.80 | 0.24 | 36.9 | 11.4 | 58.8 | 1.38 | 19.9 | 1.98 |
| L19 (8894184) | 0.31 | 7.75 | 3.5 | 597 | 1.96 | 0.17 | 1.19 | 0.03 | 52.0 | 22.5 | 119 | 3.87 | 26.1 | 4.09 |
| L20 (8894185) | 0.30 | 6.94 | 4.0 | 489 | 1.39 | 0.15 | 1.60 | 0.06 | 36.7 | 22.7 | 92.5 | 3.02 | 18.5 | 3.35 |
| L21 (8894186) | 0.32 | 6.28 | 2.7 | 541 | 1.34 | 0.09 | 1.40 | 0.08 | 24.9 | 12.1 | 81.1 | 2.07 | 8.6 | 2.50 |
| M1 (8894187) | 0.25 | 6.18 | 6.4 | 509 | 1.63 | 0.19 | 1.51 | 0.09 | 39.7 | 10.2 | 54.0 | 1.61 | 16.8 | 2.06 |
| M2 (8894188) | 0.19 | 6.01 | 2.1 | 500 | 1.40 | 0.10 | 1.49 | 0.08 | 28.7 | 12.9 | 62.0 | 1.68 | 11.6 | 2.14 |
| M3 (8894189) | 0.33 | 5.91 | 1.8 | 478 | 1.32 | 0.08 | 1.35 | 0.05 | 30.8 | 8.94 | 44.1 | 1.39 | 7.6 | 1.70 |
| M4 (8894190) | 0.35 | 6.63 | 6.3 | 497 | 1.73 | 0.11 | 1.55 | 0.14 | 34.6 | 21.2 | 61.6 | 1.67 | 8.7 | 2.53 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282586

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 03, 2018

SAMPLE TYPE: Other

| Sample ID (AGAT ID) | Analyte: Unit: RDL: | Ag ppm 0.01 | Al % 0.01 | As ppm 0.2 | Ba ppm 1 | Be ppm 0.05 | Bi ppm 0.01 | Ca % 0.01 | Cd ppm 0.02 | Ce ppm 0.01 | Co ppm 0.05 | Cr ppm 0.5 | Cs ppm 0.01 | Cu ppm 0.5 | Fe % 0.01 |
|---------------------|---------------------------|-------------------|-----------------|------------------|----------------|-------------------|-------------------|-----------------|-------------------|-------------------|-------------------|------------------|-------------------|------------------|-----------------|
| M5 (8894191) | | 0.61 | 6.54 | 12.9 | 461 | 1.50 | 3.19 | 1.52 | 0.07 | 40.4 | 18.3 | 76.9 | 2.21 | 65.9 | 2.83 |
| M6 (8894192) | | 0.26 | 6.12 | 14.2 | 477 | 1.40 | 0.40 | 1.62 | 0.04 | 52.0 | 16.3 | 71.9 | 2.26 | 26.1 | 2.59 |
| M8 (8894194) | | 0.46 | 7.22 | 6.5 | 516 | 1.57 | 0.19 | 1.27 | 0.15 | 26.0 | 27.1 | 87.5 | 3.09 | 32.9 | 3.50 |
| M9 (8894195) | | 0.94 | 7.28 | 6.6 | 420 | 1.59 | 0.20 | 0.95 | 0.18 | 39.3 | 30.7 | 165 | 2.70 | 36.4 | 4.75 |
| M10 (8894196) | | 0.41 | 6.81 | 2.6 | 532 | 1.32 | 0.13 | 1.39 | 0.11 | 32.8 | 13.5 | 78.2 | 2.45 | 9.7 | 2.46 |
| M11 (8894197) | | 0.38 | 7.21 | 3.4 | 516 | 1.66 | 0.13 | 1.30 | 0.10 | 43.3 | 21.0 | 93.3 | 2.55 | 27.3 | 3.16 |
| M12 (8894198) | | 0.31 | 6.44 | 4.8 | 451 | 1.58 | 0.15 | 1.21 | 0.11 | 37.5 | 14.9 | 73.1 | 2.10 | 12.5 | 3.12 |
| M13 (8894199) | | 0.36 | 7.16 | 3.2 | 547 | 1.39 | 0.11 | 1.32 | 0.07 | 35.6 | 13.5 | 81.1 | 2.51 | 13.0 | 2.75 |
| M14 (8894200) | | 1.88 | 6.59 | 2.6 | 522 | 1.45 | 0.10 | 1.48 | 0.05 | 28.9 | 10.8 | 55.8 | 1.63 | 9.6 | 2.11 |
| M15 (8894201) | | 0.32 | 6.70 | 5.7 | 441 | 1.44 | 0.21 | 1.49 | 0.07 | 29.8 | 22.2 | 63.4 | 2.11 | 57.5 | 3.31 |
| M16 (8894202) | | 0.18 | 6.60 | 4.2 | 529 | 1.42 | 0.10 | 1.57 | 0.03 | 26.3 | 11.9 | 54.0 | 1.35 | 18.3 | 2.11 |
| M17 (8894203) | | 0.19 | 6.33 | 4.5 | 494 | 1.42 | 0.10 | 1.41 | 0.05 | 24.4 | 11.8 | 49.8 | 1.31 | 36.9 | 2.17 |
| M18 (8894204) | | 0.21 | 6.38 | 4.7 | 466 | 1.33 | 0.15 | 1.44 | 0.08 | 33.2 | 19.1 | 58.8 | 1.47 | 26.0 | 2.61 |
| M19 (8894205) | | 0.32 | 7.24 | 9.4 | 419 | 1.54 | 0.21 | 1.35 | 0.09 | 24.2 | 24.6 | 70.6 | 2.30 | 35.3 | 4.21 |
| M20 (8894206) | | 0.19 | 6.76 | 3.9 | 485 | 1.52 | 0.10 | 1.52 | 0.06 | 33.2 | 17.8 | 60.8 | 1.51 | 11.6 | 2.33 |
| M21 (8894207) | | 0.28 | 6.64 | 4.9 | 423 | 1.38 | 0.14 | 1.33 | 0.07 | 41.1 | 14.8 | 67.9 | 2.21 | 14.9 | 3.10 |
| M22 (8894208) | | 0.23 | 6.56 | 3.9 | 432 | 1.37 | 0.14 | 1.33 | 0.08 | 29.0 | 15.8 | 73.5 | 2.11 | 22.8 | 2.91 |
| M23 (8894209) | | 0.25 | 6.80 | 3.1 | 464 | 1.49 | 0.11 | 1.50 | 0.05 | 48.1 | 12.5 | 64.3 | 1.51 | 17.0 | 2.37 |
| M24 (8894210) | | 0.25 | 6.58 | 4.0 | 439 | 1.44 | 0.15 | 1.30 | 0.06 | 30.8 | 15.3 | 68.8 | 2.27 | 13.2 | 3.36 |
| M25 (8894211) | | 0.24 | 6.77 | 5.6 | 442 | 1.47 | 0.14 | 1.42 | 0.03 | 52.3 | 21.4 | 75.8 | 1.84 | 15.7 | 2.97 |
| M26 (8894212) | | 0.43 | 6.46 | 3.2 | 463 | 1.43 | 0.15 | 1.34 | 0.08 | 25.1 | 10.2 | 60.5 | 2.21 | 12.9 | 2.67 |
| M27 (8894213) | | 0.20 | 6.62 | 1.7 | 503 | 1.39 | 0.07 | 1.50 | 0.04 | 24.4 | 12.9 | 53.7 | 1.40 | 2.5 | 2.13 |
| M28 (8894214) | | 0.26 | 6.91 | 1.5 | 499 | 1.51 | 0.10 | 1.49 | 0.05 | 26.8 | 14.6 | 61.4 | 1.59 | 3.8 | 2.55 |
| M29 (8894215) | | 0.35 | 5.79 | 2.2 | 504 | 1.26 | 0.14 | 1.35 | 0.06 | 29.6 | 9.11 | 45.8 | 1.33 | 6.2 | 1.79 |
| M30 (8894216) | | 0.19 | 6.36 | 2.4 | 473 | 1.62 | 0.08 | 1.42 | 0.06 | 20.1 | 11.6 | 57.4 | 1.43 | 3.7 | 2.29 |
| M31 (8894217) | | 0.23 | 6.43 | 1.4 | 474 | 1.53 | 0.52 | 1.63 | 0.06 | 31.8 | 12.4 | 67.3 | 1.27 | 3.8 | 2.36 |
| M32 (8894218) | | 0.23 | 6.45 | 2.9 | 475 | 1.45 | 0.09 | 1.57 | <0.02 | 32.2 | 12.0 | 68.5 | 1.41 | 3.7 | 2.48 |
| M33 (8894219) | | 0.25 | 6.73 | 2.1 | 474 | 1.45 | 0.09 | 1.60 | 0.05 | 24.3 | 15.9 | 67.3 | 1.47 | 3.2 | 2.69 |
| M34 (8894220) | | 0.26 | 6.67 | 1.7 | 488 | 1.55 | 0.10 | 1.63 | <0.02 | 34.6 | 12.4 | 73.9 | 1.48 | 3.7 | 2.77 |
| M35 (8894221) | | 0.30 | 6.46 | 2.5 | 466 | 1.40 | 0.10 | 1.53 | 0.07 | 23.7 | 11.7 | 77.1 | 1.36 | 4.0 | 3.06 |
| M36 (8894222) | | 0.33 | 6.71 | 1.6 | 474 | 1.55 | 0.10 | 1.58 | 0.07 | 40.5 | 13.1 | 80.4 | 1.62 | 8.0 | 2.86 |
| M37 (8894223) | | 0.29 | 6.74 | 2.8 | 487 | 1.50 | 0.09 | 1.48 | 0.05 | 27.0 | 13.2 | 72.7 | 1.53 | 7.8 | 2.74 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282586

PROJECT:

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 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | DATE REPORTED: Jan 03, 2018 | | | | SAMPLE TYPE: Other | | | | | |
|----------------------------|-----------------------------|------|-----|-----|-----------------------------|------|------|------|--------------------|------|------|------|------|------|
| Analyte: | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr | Cs | Cu | Fe |
| Unit: | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % |
| Sample ID (AGAT ID) | RDL: | | | | | | | | | | | | | |
| M38 (8894224) | 0.27 | 7.05 | 2.6 | 495 | 1.55 | 0.09 | 1.52 | 0.05 | 30.6 | 13.8 | 65.7 | 1.44 | 5.6 | 2.69 |
| M39 (8894225) | 0.29 | 7.38 | 3.9 | 535 | 1.50 | 0.12 | 1.46 | 0.06 | 30.5 | 20.6 | 75.1 | 2.45 | 12.4 | 2.94 |
| M40 (8894226) | 0.26 | 6.54 | 1.3 | 507 | 1.55 | 0.08 | 1.65 | 0.06 | 30.5 | 12.9 | 64.5 | 1.42 | 3.0 | 2.42 |
| M41 (8894227) | 0.23 | 6.48 | 1.9 | 516 | 1.51 | 0.09 | 1.44 | 0.06 | 22.4 | 11.3 | 58.5 | 1.69 | 3.1 | 2.43 |

Certified By:

Certificate of Analysis

AGAT WORK ORDER: 17T282586

PROJECT:

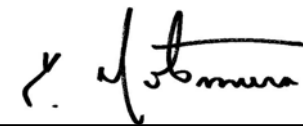
CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 03, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|-------|-----|-------|------|-----------------------------|------|------|-----|------|--------------------|------|------|-----|--|
| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P | |
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm | |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 | |
| K13 (8894159) | 18.2 | <0.05 | 3.3 | 0.034 | 1.80 | 13.5 | 18.3 | 0.75 | 317 | 0.54 | 1.96 | 7.9 | 39.5 | 481 | |
| K14 (8894160) | 17.2 | <0.05 | 3.2 | 0.024 | 1.66 | 14.1 | 13.3 | 0.64 | 341 | 0.42 | 2.12 | 6.0 | 27.1 | 579 | |
| K15 (8894161) | 19.6 | <0.05 | 4.0 | 0.033 | 1.57 | 13.6 | 19.5 | 0.78 | 422 | 0.86 | 1.98 | 9.1 | 37.3 | 670 | |
| K16 (8894162) | 14.9 | 0.07 | 2.3 | 0.023 | 1.49 | 14.1 | 11.4 | 0.58 | 312 | 0.43 | 1.96 | 5.6 | 23.6 | 348 | |
| K17 (8894163) | 16.6 | 0.06 | 2.1 | 0.023 | 1.51 | 8.8 | 14.9 | 0.52 | 277 | 0.59 | 1.98 | 5.7 | 23.5 | 466 | |
| K18 (8894164) | 22.7 | 0.18 | 2.5 | 0.044 | 1.41 | 11.4 | 34.2 | 1.08 | 483 | 1.12 | 1.54 | 11.7 | 53.5 | 731 | |
| K19 (8894165) | 16.8 | <0.05 | 2.4 | 0.021 | 1.60 | 9.3 | 11.4 | 0.54 | 253 | 0.35 | 2.18 | 4.7 | 22.1 | 526 | |
| L1 (8894166) | 16.7 | <0.05 | 2.6 | 0.021 | 1.48 | 11.7 | 16.6 | 0.47 | 235 | 0.60 | 1.86 | 5.9 | 22.5 | 345 | |
| L2 (8894167) | 17.0 | 0.06 | 3.0 | 0.025 | 1.64 | 12.5 | 10.4 | 0.54 | 270 | 0.45 | 2.01 | 5.8 | 21.5 | 342 | |
| L3 (8894168) | 17.4 | <0.05 | 2.7 | 0.027 | 1.59 | 14.7 | 13.3 | 0.59 | 304 | 0.43 | 2.14 | 6.0 | 29.7 | 526 | |
| L4 (8894169) | 16.5 | <0.05 | 2.8 | 0.024 | 1.63 | 11.2 | 12.6 | 0.62 | 306 | 0.51 | 2.25 | 5.4 | 27.2 | 514 | |
| L5 (8894170) | 16.9 | 0.19 | 2.3 | 0.023 | 1.62 | 10.3 | 12.5 | 0.57 | 281 | 0.32 | 2.19 | 5.2 | 24.4 | 518 | |
| L6 (8894171) | 18.0 | 0.17 | 2.2 | 0.024 | 1.64 | 8.0 | 12.6 | 0.47 | 285 | 0.39 | 2.12 | 5.4 | 17.7 | 610 | |
| L7 (8894172) | 15.9 | 0.10 | 1.9 | 0.019 | 1.66 | 9.3 | 10.3 | 0.56 | 261 | 0.26 | 2.26 | 4.1 | 21.9 | 310 | |
| L8 (8894173) | 18.1 | 0.17 | 2.9 | 0.028 | 1.66 | 11.5 | 15.0 | 0.63 | 336 | 0.42 | 2.29 | 5.7 | 27.2 | 447 | |
| L9 (8894174) | 15.0 | 0.21 | 1.5 | 0.017 | 1.64 | 9.4 | 8.1 | 0.32 | 241 | 0.26 | 2.08 | 4.0 | 12.7 | 322 | |
| L10 (8894175) | 15.6 | 0.09 | 1.7 | 0.023 | 1.54 | 7.9 | 12.8 | 0.55 | 270 | 0.32 | 2.19 | 3.6 | 23.7 | 421 | |
| L11 (8894176) | 17.6 | <0.05 | 1.6 | 0.022 | 1.62 | 8.9 | 15.0 | 0.64 | 329 | 0.34 | 2.32 | 4.6 | 28.6 | 559 | |
| L12 (8894177) | 19.4 | <0.05 | 2.2 | 0.029 | 1.47 | 12.6 | 18.7 | 0.71 | 378 | 0.35 | 2.06 | 6.2 | 33.9 | 821 | |
| L13 (8894178) | 15.9 | <0.05 | 3.0 | 0.025 | 1.47 | 13.0 | 12.8 | 0.75 | 399 | 0.24 | 2.12 | 5.1 | 30.2 | 391 | |
| L14 (8894179) | 17.2 | <0.05 | 2.4 | 0.026 | 1.56 | 14.5 | 17.6 | 0.77 | 380 | 0.33 | 2.05 | 5.7 | 40.4 | 522 | |
| L15 (8894180) | 17.2 | 0.13 | 2.1 | 0.031 | 1.36 | 9.3 | 22.6 | 0.84 | 414 | 0.43 | 1.80 | 11.1 | 40.8 | 643 | |
| L16 (8894181) | 16.6 | <0.05 | 2.1 | 0.018 | 1.62 | 9.1 | 11.1 | 0.42 | 238 | 0.28 | 2.10 | 4.8 | 16.4 | 556 | |
| L17 (8894182) | 16.0 | <0.05 | 2.7 | 0.024 | 1.59 | 11.3 | 15.2 | 0.61 | 254 | 0.40 | 2.01 | 5.3 | 29.2 | 275 | |
| L18 (8894183) | 16.8 | <0.05 | 2.2 | 0.028 | 1.59 | 18.0 | 12.9 | 0.79 | 362 | 0.35 | 2.32 | 4.8 | 26.3 | 553 | |
| L19 (8894184) | 22.9 | 0.11 | 3.2 | 0.032 | 2.04 | 24.5 | 35.9 | 1.27 | 300 | 0.33 | 1.71 | 11.9 | 57.2 | 138 | |
| L20 (8894185) | 21.7 | <0.05 | 2.8 | 0.040 | 1.77 | 18.2 | 34.1 | 1.35 | 466 | 0.42 | 2.03 | 8.8 | 47.4 | 173 | |
| L21 (8894186) | 18.2 | 0.07 | 2.1 | 0.028 | 2.01 | 12.1 | 20.7 | 1.00 | 377 | 0.32 | 1.96 | 10.5 | 35.9 | 236 | |
| M1 (8894187) | 18.9 | <0.05 | 2.4 | 0.025 | 1.64 | 16.6 | 15.2 | 0.62 | 357 | 0.59 | 2.27 | 5.7 | 23.1 | 215 | |
| M2 (8894188) | 17.4 | <0.05 | 2.2 | 0.023 | 1.63 | 10.5 | 13.6 | 0.73 | 396 | 0.36 | 2.14 | 5.4 | 28.6 | 282 | |
| M3 (8894189) | 16.6 | <0.05 | 2.5 | 0.022 | 1.59 | 10.5 | 9.8 | 0.47 | 269 | 0.48 | 2.08 | 5.6 | 18.7 | 185 | |
| M4 (8894190) | 19.2 | <0.05 | 3.0 | 0.032 | 1.68 | 15.5 | 14.8 | 0.65 | 330 | 0.57 | 2.16 | 6.8 | 30.9 | 532 | |

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 17T282586

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 03, 2018

SAMPLE TYPE: Other

| Analyte: | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb | Ni | P |
|---------------|------|-------|-----|-------|------|------|------|------|-----|------|------|------|------|------|
| Unit: | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm | ppm | ppm |
| RDL: | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.1 | 0.01 | 1 | 0.05 | 0.01 | 0.1 | 0.5 | 10 |
| M5 (8894191) | 20.3 | <0.05 | 3.8 | 0.032 | 1.63 | 20.7 | 20.6 | 0.91 | 433 | 0.54 | 2.04 | 7.4 | 35.7 | 243 |
| M6 (8894192) | 16.5 | 0.16 | 3.4 | 0.036 | 1.64 | 28.4 | 22.3 | 0.86 | 491 | 0.52 | 2.02 | 7.6 | 31.6 | 219 |
| M8 (8894194) | 19.7 | 0.22 | 2.3 | 0.041 | 1.67 | 11.3 | 43.5 | 0.99 | 354 | 1.03 | 1.56 | 8.9 | 58.4 | 445 |
| M9 (8894195) | 20.3 | 0.23 | 2.5 | 0.044 | 1.40 | 17.9 | 39.1 | 2.37 | 383 | 0.94 | 1.15 | 30.2 | 83.7 | 916 |
| M10 (8894196) | 20.0 | <0.05 | 3.0 | 0.032 | 1.89 | 16.0 | 27.8 | 0.77 | 295 | 0.59 | 1.79 | 8.7 | 34.7 | 909 |
| M11 (8894197) | 19.2 | 0.19 | 2.9 | 0.039 | 1.76 | 17.9 | 21.5 | 0.98 | 383 | 0.64 | 1.65 | 11.2 | 50.3 | 1220 |
| M12 (8894198) | 18.7 | <0.05 | 3.2 | 0.033 | 1.52 | 17.6 | 21.6 | 0.67 | 335 | 0.89 | 1.58 | 8.0 | 36.5 | 846 |
| M13 (8894199) | 18.4 | <0.05 | 3.3 | 0.028 | 1.87 | 17.7 | 20.8 | 0.83 | 338 | 0.49 | 1.80 | 7.8 | 39.9 | 552 |
| M14 (8894200) | 18.1 | <0.05 | 2.4 | 0.025 | 1.71 | 11.0 | 15.0 | 0.63 | 328 | 0.46 | 2.19 | 5.7 | 27.5 | 389 |
| M15 (8894201) | 19.6 | <0.05 | 3.1 | 0.042 | 1.59 | 12.6 | 22.9 | 0.90 | 421 | 0.59 | 1.90 | 7.1 | 38.6 | 360 |
| M16 (8894202) | 18.2 | <0.05 | 3.0 | 0.026 | 1.68 | 12.9 | 14.2 | 0.68 | 303 | 0.45 | 2.31 | 5.8 | 29.4 | 222 |
| M17 (8894203) | 17.9 | <0.05 | 2.6 | 0.026 | 1.62 | 10.5 | 19.4 | 0.66 | 279 | 0.48 | 2.15 | 5.1 | 31.2 | 215 |
| M18 (8894204) | 18.3 | <0.05 | 3.1 | 0.029 | 1.54 | 10.2 | 16.2 | 0.69 | 326 | 0.51 | 2.08 | 5.9 | 34.6 | 333 |
| M19 (8894205) | 20.5 | 0.07 | 2.8 | 0.045 | 1.41 | 11.7 | 28.9 | 0.79 | 355 | 0.95 | 1.89 | 6.9 | 41.2 | 381 |
| M20 (8894206) | 17.2 | <0.05 | 2.8 | 0.025 | 1.58 | 12.0 | 14.9 | 0.68 | 324 | 0.40 | 2.22 | 5.5 | 30.9 | 267 |
| M21 (8894207) | 17.7 | <0.05 | 3.3 | 0.032 | 1.46 | 19.6 | 19.7 | 0.66 | 339 | 0.74 | 1.87 | 7.4 | 28.0 | 416 |
| M22 (8894208) | 17.3 | <0.05 | 3.3 | 0.030 | 1.52 | 13.0 | 18.5 | 0.77 | 367 | 0.56 | 1.85 | 6.8 | 31.5 | 375 |
| M23 (8894209) | 18.5 | <0.05 | 3.6 | 0.029 | 1.53 | 21.3 | 14.4 | 0.66 | 304 | 0.63 | 2.05 | 7.6 | 26.4 | 379 |
| M24 (8894210) | 21.0 | <0.05 | 2.8 | 0.033 | 1.55 | 14.7 | 22.0 | 0.77 | 355 | 0.70 | 1.85 | 7.1 | 30.5 | 431 |
| M25 (8894211) | 18.3 | <0.05 | 3.6 | 0.030 | 1.55 | 15.8 | 19.2 | 0.77 | 407 | 0.54 | 1.95 | 7.1 | 37.7 | 536 |
| M26 (8894212) | 19.5 | <0.05 | 3.6 | 0.030 | 1.57 | 12.2 | 17.9 | 0.60 | 326 | 0.68 | 1.76 | 7.4 | 23.7 | 945 |
| M27 (8894213) | 17.5 | <0.05 | 2.1 | 0.022 | 1.62 | 11.2 | 13.4 | 0.59 | 300 | 0.42 | 2.28 | 4.4 | 25.7 | 465 |
| M28 (8894214) | 18.3 | <0.05 | 2.8 | 0.027 | 1.57 | 12.9 | 16.2 | 0.64 | 331 | 0.45 | 2.13 | 5.6 | 30.9 | 448 |
| M29 (8894215) | 19.1 | <0.05 | 3.3 | 0.025 | 1.56 | 14.4 | 11.0 | 0.44 | 277 | 0.52 | 2.02 | 6.3 | 17.8 | 264 |
| M30 (8894216) | 18.4 | <0.05 | 1.9 | 0.023 | 1.49 | 8.4 | 13.2 | 0.58 | 375 | 0.46 | 2.16 | 5.2 | 23.3 | 561 |
| M31 (8894217) | 17.1 | <0.05 | 2.2 | 0.130 | 1.50 | 14.5 | 12.5 | 0.69 | 367 | 0.30 | 2.28 | 5.8 | 27.9 | 515 |
| M32 (8894218) | 17.5 | <0.05 | 2.7 | 0.023 | 1.55 | 14.7 | 13.6 | 0.67 | 364 | 0.39 | 2.15 | 5.9 | 28.0 | 529 |
| M33 (8894219) | 18.3 | <0.05 | 2.7 | 0.034 | 1.55 | 11.3 | 15.4 | 0.71 | 391 | 0.49 | 2.16 | 6.7 | 30.8 | 497 |
| M34 (8894220) | 18.1 | <0.05 | 3.0 | 0.028 | 1.55 | 15.9 | 15.5 | 0.67 | 387 | 0.42 | 2.19 | 6.1 | 29.2 | 680 |
| M35 (8894221) | 17.9 | <0.05 | 3.4 | 0.029 | 1.44 | 10.7 | 16.6 | 0.67 | 417 | 0.46 | 2.06 | 6.9 | 29.5 | 551 |
| M36 (8894222) | 18.1 | <0.05 | 4.0 | 0.029 | 1.60 | 19.1 | 14.6 | 0.72 | 406 | 0.44 | 2.09 | 6.6 | 32.1 | 613 |
| M37 (8894223) | 18.5 | <0.05 | 2.4 | 0.029 | 1.59 | 11.9 | 16.9 | 0.67 | 346 | 0.39 | 2.08 | 6.0 | 34.1 | 599 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282586

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
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<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 03, 2018

SAMPLE TYPE: Other

| Sample ID (AGAT ID) | Analyte: Unit: RDL: | Ga ppm 0.05 | Ge ppm 0.05 | Hf ppm 0.1 | In ppm 0.005 | K % 0.01 | La ppm 0.5 | Li ppm 0.1 | Mg % 0.01 | Mn ppm 1 | Mo ppm 0.05 | Na % 0.01 | Nb ppm 0.1 | Ni ppm 0.5 | P ppm 10 |
|---------------------|---------------------------|-------------------|-------------------|------------------|--------------------|----------------|------------------|------------------|-----------------|----------------|-------------------|-----------------|------------------|------------------|----------------|
| M38 (8894224) | | 18.2 | <0.05 | 2.1 | 0.027 | 1.59 | 14.3 | 17.3 | 0.72 | 339 | 0.44 | 2.19 | 5.6 | 33.0 | 518 |
| M39 (8894225) | | 19.6 | <0.05 | 2.8 | 0.033 | 1.74 | 14.1 | 24.5 | 0.80 | 333 | 0.74 | 1.96 | 7.2 | 45.7 | 464 |
| M40 (8894226) | | 17.7 | <0.05 | 2.6 | 0.026 | 1.61 | 13.7 | 11.9 | 0.71 | 372 | 0.37 | 2.27 | 5.9 | 27.3 | 413 |
| M41 (8894227) | | 19.1 | <0.05 | 2.8 | 0.026 | 1.64 | 10.5 | 16.4 | 0.56 | 304 | 0.57 | 2.13 | 6.1 | 24.8 | 452 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282586

PROJECT:

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MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
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<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 03, 2018

SAMPLE TYPE: Other

| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl |
|---------------|------|------|--------|------|------|------|------|------|-----|------|-------|------|------|------|
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm |
| RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | 0.01 |
| K13 (8894159) | 12.2 | 60.7 | <0.002 | 0.05 | 0.22 | 9.0 | 0.8 | 1.5 | 282 | 0.57 | <0.01 | 4.1 | 0.28 | 0.28 |
| K14 (8894160) | 11.6 | 52.3 | <0.002 | 0.03 | 0.10 | 8.0 | <0.5 | 4.4 | 326 | 0.46 | <0.01 | 5.0 | 0.28 | 0.25 |
| K15 (8894161) | 12.3 | 48.3 | <0.002 | 0.05 | 0.35 | 10.0 | 0.8 | 1.9 | 307 | 0.95 | 0.06 | 4.7 | 0.38 | 0.27 |
| K16 (8894162) | 17.9 | 43.8 | <0.002 | 0.03 | 0.24 | 7.7 | <0.5 | 1.3 | 304 | 0.47 | <0.01 | 5.1 | 0.24 | 0.23 |
| K17 (8894163) | 11.1 | 47.7 | <0.002 | 0.03 | 0.27 | 7.3 | 0.7 | 1.5 | 310 | 0.46 | <0.01 | 2.5 | 0.24 | 0.23 |
| K18 (8894164) | 17.2 | 45.1 | <0.002 | 0.05 | 0.32 | 10.3 | 1.1 | 2.0 | 256 | 0.85 | 0.02 | 3.9 | 0.59 | 0.23 |
| K19 (8894165) | 10.9 | 50.6 | <0.002 | 0.03 | 0.15 | 6.8 | 0.7 | 1.5 | 338 | 0.33 | <0.01 | 2.8 | 0.20 | 0.25 |
| L1 (8894166) | 11.9 | 45.5 | <0.002 | 0.08 | 0.09 | 7.4 | 1.0 | 16.6 | 278 | 0.48 | <0.01 | 4.0 | 0.24 | 0.24 |
| L2 (8894167) | 11.7 | 51.4 | <0.002 | 0.03 | 0.13 | 7.7 | 0.6 | 1.3 | 306 | 0.40 | <0.01 | 3.9 | 0.23 | 0.26 |
| L3 (8894168) | 11.3 | 50.7 | <0.002 | 0.04 | 0.07 | 8.4 | 1.0 | 1.2 | 322 | 0.43 | <0.01 | 4.4 | 0.25 | 0.24 |
| L4 (8894169) | 11.2 | 49.8 | <0.002 | 0.04 | 0.10 | 7.6 | <0.5 | 1.1 | 332 | 0.41 | <0.01 | 3.2 | 0.23 | 0.25 |
| L5 (8894170) | 11.0 | 49.2 | <0.002 | 0.05 | 0.08 | 7.5 | <0.5 | 1.2 | 335 | 0.43 | <0.01 | 3.2 | 0.22 | 0.23 |
| L6 (8894171) | 11.5 | 52.9 | <0.002 | 0.03 | 0.14 | 6.8 | <0.5 | 1.2 | 325 | 0.38 | <0.01 | 1.8 | 0.23 | 0.25 |
| L7 (8894172) | 10.6 | 50.8 | <0.002 | 0.03 | 0.05 | 6.5 | <0.5 | 1.7 | 342 | 0.33 | <0.01 | 2.9 | 0.18 | 0.25 |
| L8 (8894173) | 11.7 | 52.8 | <0.002 | 0.04 | 0.08 | 7.8 | 0.7 | 1.1 | 348 | 0.43 | <0.01 | 3.4 | 0.26 | 0.25 |
| L9 (8894174) | 11.0 | 48.8 | <0.002 | 0.02 | 0.16 | 4.7 | <0.5 | 1.1 | 307 | 0.29 | <0.01 | 3.4 | 0.18 | 0.24 |
| L10 (8894175) | 10.7 | 47.6 | <0.002 | 0.03 | 0.12 | 6.6 | <0.5 | 1.9 | 320 | 0.29 | <0.01 | 2.2 | 0.18 | 0.23 |
| L11 (8894176) | 11.5 | 52.2 | <0.002 | 0.03 | 0.11 | 7.3 | 0.6 | 1.1 | 353 | 0.37 | <0.01 | 2.5 | 0.21 | 0.25 |
| L12 (8894177) | 12.6 | 51.0 | <0.002 | 0.04 | 0.10 | 8.8 | 0.6 | 2.5 | 316 | 0.45 | <0.01 | 3.5 | 0.28 | 0.25 |
| L13 (8894178) | 10.9 | 49.3 | <0.002 | 0.03 | 0.11 | 8.2 | 0.6 | 1.2 | 321 | 0.38 | <0.01 | 6.4 | 0.27 | 0.23 |
| L14 (8894179) | 11.7 | 53.9 | <0.002 | 0.03 | 0.13 | 8.3 | 0.8 | 1.1 | 316 | 0.41 | <0.01 | 6.0 | 0.27 | 0.26 |
| L15 (8894180) | 11.6 | 49.1 | <0.002 | 0.04 | 0.11 | 9.6 | 0.6 | 1.3 | 281 | 0.93 | <0.01 | 2.7 | 0.31 | 0.23 |
| L16 (8894181) | 10.8 | 52.7 | <0.002 | 0.03 | 0.11 | 5.9 | <0.5 | 1.2 | 312 | 0.33 | <0.01 | 3.0 | 0.21 | 0.24 |
| L17 (8894182) | 11.8 | 49.4 | <0.002 | 0.03 | 0.10 | 7.3 | 0.7 | 1.0 | 302 | 0.39 | <0.01 | 2.9 | 0.21 | 0.24 |
| L18 (8894183) | 15.4 | 51.0 | <0.002 | 0.07 | 0.19 | 9.4 | 1.1 | 1.1 | 331 | 0.35 | <0.01 | 4.3 | 0.26 | 0.26 |
| L19 (8894184) | 16.9 | 72.8 | <0.002 | 0.02 | 0.30 | 13.6 | 0.6 | 2.0 | 247 | 1.17 | 0.07 | 11.0 | 0.35 | 0.48 |
| L20 (8894185) | 13.1 | 66.0 | <0.002 | 0.03 | 0.29 | 13.0 | 0.8 | 1.8 | 259 | 0.81 | 0.03 | 4.8 | 0.43 | 0.35 |
| L21 (8894186) | 11.9 | 64.9 | <0.002 | 0.03 | 0.13 | 9.3 | <0.5 | 1.5 | 289 | 1.12 | <0.01 | 3.2 | 0.30 | 0.30 |
| M1 (8894187) | 12.4 | 55.5 | <0.002 | 0.03 | 0.15 | 8.6 | 0.9 | 1.2 | 341 | 0.45 | <0.01 | 4.3 | 0.26 | 0.26 |
| M2 (8894188) | 11.4 | 54.9 | <0.002 | 0.03 | 0.14 | 8.4 | 0.5 | 1.1 | 304 | 0.47 | <0.01 | 2.6 | 0.24 | 0.26 |
| M3 (8894189) | 11.0 | 51.1 | <0.002 | 0.03 | 0.13 | 7.1 | 0.8 | 1.6 | 318 | 0.42 | <0.01 | 2.9 | 0.24 | 0.24 |
| M4 (8894190) | 14.2 | 57.1 | <0.002 | 0.04 | 0.24 | 8.3 | 1.0 | 1.6 | 327 | 0.52 | <0.01 | 4.1 | 0.29 | 0.26 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282586

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | | | DATE REPORTED: Jan 03, 2018 | | | | | SAMPLE TYPE: Other | | | | |
|----------------------------|-----------------------------|------|--------|------|------|-----------------------------|------|------|-----|------|--------------------|------|------|------|--|
| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl | |
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | |
| RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | 0.01 | |
| M5 (8894191) | 12.4 | 57.2 | <0.002 | 0.03 | 0.25 | 10.0 | 1.0 | 1.6 | 287 | 0.60 | <0.01 | 7.1 | 0.34 | 0.30 | |
| M6 (8894192) | 12.9 | 52.7 | <0.002 | 0.03 | 0.16 | 10.6 | 0.6 | 2.3 | 296 | 0.53 | <0.01 | 10.5 | 0.37 | 0.28 | |
| M8 (8894194) | 16.1 | 60.8 | <0.002 | 0.05 | 0.30 | 9.8 | 0.8 | 1.6 | 234 | 0.57 | 0.02 | 3.8 | 0.37 | 0.29 | |
| M9 (8894195) | 14.3 | 50.2 | <0.002 | 0.06 | 0.29 | 11.3 | 1.6 | 2.2 | 173 | 1.92 | 0.03 | 5.8 | 0.52 | 0.23 | |
| M10 (8894196) | 13.4 | 61.8 | <0.002 | 0.05 | 0.20 | 9.2 | 0.9 | 1.6 | 262 | 0.62 | <0.01 | 4.6 | 0.32 | 0.29 | |
| M11 (8894197) | 13.7 | 57.7 | <0.002 | 0.05 | 0.29 | 10.2 | 1.2 | 1.5 | 242 | 0.80 | <0.01 | 6.0 | 0.35 | 0.29 | |
| M12 (8894198) | 13.3 | 50.1 | <0.002 | 0.05 | 0.24 | 8.5 | 1.1 | 1.5 | 232 | 0.57 | <0.01 | 6.6 | 0.31 | 0.27 | |
| M13 (8894199) | 13.0 | 60.3 | <0.002 | 0.04 | 0.19 | 9.4 | 0.8 | 4.6 | 254 | 0.55 | <0.01 | 5.6 | 0.31 | 0.30 | |
| M14 (8894200) | 11.2 | 53.9 | <0.002 | 0.03 | 0.17 | 8.2 | 0.7 | 2.1 | 313 | 0.60 | <0.01 | 3.4 | 0.26 | 0.25 | |
| M15 (8894201) | 12.3 | 56.0 | <0.002 | 0.04 | 0.36 | 10.8 | 0.9 | 1.5 | 255 | 0.48 | <0.01 | 4.3 | 0.34 | 0.25 | |
| M16 (8894202) | 11.7 | 50.9 | <0.002 | 0.03 | 0.11 | 8.4 | 0.8 | 1.2 | 341 | 0.42 | <0.01 | 3.2 | 0.26 | 0.25 | |
| M17 (8894203) | 11.5 | 49.4 | <0.002 | 0.02 | 0.11 | 7.8 | <0.5 | 1.1 | 320 | 0.36 | <0.01 | 2.9 | 0.23 | 0.23 | |
| M18 (8894204) | 12.3 | 51.4 | <0.002 | 0.03 | 0.18 | 8.5 | 0.9 | 1.3 | 299 | 0.41 | <0.01 | 4.9 | 0.29 | 0.24 | |
| M19 (8894205) | 11.9 | 49.6 | <0.002 | 0.05 | 0.32 | 10.4 | 1.2 | 1.6 | 242 | 0.52 | <0.01 | 4.0 | 0.34 | 0.26 | |
| M20 (8894206) | 11.9 | 49.1 | <0.002 | 0.04 | 0.13 | 8.4 | 0.9 | 1.5 | 316 | 0.41 | <0.01 | 4.2 | 0.26 | 0.24 | |
| M21 (8894207) | 12.7 | 48.5 | <0.002 | 0.04 | 0.37 | 9.3 | 1.1 | 1.5 | 259 | 0.86 | 0.07 | 9.7 | 0.31 | 0.27 | |
| M22 (8894208) | 12.5 | 50.3 | <0.002 | 0.04 | 0.26 | 10.0 | 1.0 | 1.5 | 245 | 0.57 | 0.02 | 4.7 | 0.32 | 0.28 | |
| M23 (8894209) | 13.0 | 47.1 | <0.002 | 0.04 | 0.16 | 8.8 | 1.0 | 2.2 | 303 | 0.58 | <0.01 | 10.3 | 0.29 | 0.25 | |
| M24 (8894210) | 11.2 | 53.5 | <0.002 | 0.04 | 0.24 | 9.9 | 1.3 | 1.6 | 244 | 0.55 | 0.02 | 4.8 | 0.33 | 0.27 | |
| M25 (8894211) | 12.7 | 52.9 | <0.002 | 0.04 | 0.30 | 10.2 | 1.0 | 1.6 | 274 | 0.60 | 0.03 | 6.1 | 0.33 | 0.25 | |
| M26 (8894212) | 11.9 | 52.8 | <0.002 | 0.05 | 0.24 | 8.8 | 1.0 | 1.5 | 262 | 0.81 | <0.01 | 4.1 | 0.30 | 0.25 | |
| M27 (8894213) | 10.7 | 51.9 | <0.002 | 0.04 | 0.11 | 7.3 | 1.0 | 1.3 | 339 | 0.34 | <0.01 | 3.3 | 0.23 | 0.24 | |
| M28 (8894214) | 11.4 | 49.9 | <0.002 | 0.04 | 0.10 | 8.4 | 1.1 | 1.6 | 324 | 0.52 | 0.01 | 3.7 | 0.27 | 0.23 | |
| M29 (8894215) | 11.6 | 52.5 | <0.002 | 0.03 | 0.18 | 7.3 | 0.5 | 1.4 | 299 | 0.48 | <0.01 | 4.8 | 0.27 | 0.26 | |
| M30 (8894216) | 10.5 | 50.2 | <0.002 | 0.04 | 0.82 | 7.7 | 0.7 | 1.2 | 329 | 0.37 | <0.01 | 2.3 | 0.24 | 0.23 | |
| M31 (8894217) | 11.5 | 50.2 | <0.002 | 0.03 | 0.14 | 8.4 | 0.5 | 1.2 | 341 | 0.41 | <0.01 | 6.3 | 0.25 | 0.22 | |
| M32 (8894218) | 11.0 | 50.6 | <0.002 | 0.03 | 0.15 | 8.7 | 0.8 | 10.6 | 314 | 0.43 | <0.01 | 5.0 | 0.27 | 0.23 | |
| M33 (8894219) | 11.0 | 51.0 | <0.002 | 0.04 | 0.12 | 9.0 | 0.8 | 1.3 | 326 | 0.47 | <0.01 | 4.0 | 0.30 | 0.23 | |
| M34 (8894220) | 12.0 | 50.9 | <0.002 | 0.04 | 0.10 | 8.8 | <0.5 | 16.2 | 330 | 0.44 | <0.01 | 5.7 | 0.31 | 0.25 | |
| M35 (8894221) | 10.6 | 46.8 | <0.002 | 0.04 | 0.16 | 9.2 | 0.8 | 1.3 | 303 | 0.55 | 0.02 | 3.9 | 0.34 | 0.22 | |
| M36 (8894222) | 12.1 | 52.4 | <0.002 | 0.04 | 0.23 | 9.3 | 1.2 | 1.3 | 315 | 0.48 | <0.01 | 11.1 | 0.32 | 0.25 | |
| M37 (8894223) | 10.9 | 54.0 | <0.002 | 0.04 | 0.10 | 8.8 | 0.7 | 1.2 | 304 | 0.44 | <0.01 | 4.0 | 0.28 | 0.24 | |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282586

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 03, 2018

SAMPLE TYPE: Other

| Analyte: | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti | Tl | |
|---------------------|------|------|------|--------|------|------|-----|-----|-----|-----|------|-------|-----|------|------|
| Unit: | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | |
| Sample ID (AGAT ID) | RDL: | 0.1 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 0.5 | 0.2 | 0.2 | 0.05 | 0.01 | 0.1 | 0.01 | |
| M38 (8894224) | | 11.1 | 50.7 | <0.002 | 0.04 | 0.09 | 8.5 | 0.8 | 1.2 | 321 | 0.46 | <0.01 | 6.9 | 0.28 | 0.24 |
| M39 (8894225) | | 13.3 | 57.9 | <0.002 | 0.04 | 0.17 | 9.0 | 1.1 | 1.4 | 291 | 0.49 | <0.01 | 5.2 | 0.30 | 0.27 |
| M40 (8894226) | | 11.4 | 54.0 | <0.002 | 0.03 | 0.10 | 8.5 | 0.9 | 1.2 | 347 | 0.41 | <0.01 | 3.2 | 0.28 | 0.26 |
| M41 (8894227) | | 11.6 | 53.8 | <0.002 | 0.03 | 0.15 | 7.6 | 0.7 | 1.2 | 315 | 0.44 | <0.01 | 3.7 | 0.27 | 0.26 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282586

PROJECT:

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<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| DATE SAMPLED: Nov 09, 2017 | DATE RECEIVED: Nov 10, 2017 | | | DATE REPORTED: Jan 03, 2018 | | | SAMPLE TYPE: Other |
|----------------------------|-----------------------------|-------|------|-----------------------------|------|------|--------------------|
| Analyte: | U | V | W | Y | Zn | Zr | |
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm | |
| Sample ID (AGAT ID) | RDL: | 0.005 | 0.5 | 0.1 | 0.1 | 0.5 | 0.5 |
| K13 (8894159) | | 0.913 | 57.5 | 0.5 | 12.2 | 40.7 | 165 |
| K14 (8894160) | | 0.850 | 58.9 | 0.3 | 11.3 | 45.7 | 150 |
| K15 (8894161) | | 1.00 | 85.3 | 0.6 | 12.7 | 64.9 | 169 |
| K16 (8894162) | | 0.835 | 53.8 | 0.3 | 10.2 | 42.2 | 105 |
| K17 (8894163) | | 0.629 | 59.0 | 0.3 | 9.8 | 56.0 | 101 |
| K18 (8894164) | | 0.969 | 117 | 0.7 | 11.2 | 102 | 125 |
| K19 (8894165) | | 0.602 | 52.6 | 0.2 | 9.2 | 26.3 | 115 |
| L1 (8894166) | | 0.783 | 51.8 | 0.2 | 9.4 | 23.9 | 122 |
| L2 (8894167) | | 0.737 | 48.8 | 0.2 | 9.9 | 36.5 | 141 |
| L3 (8894168) | | 0.753 | 57.3 | 0.2 | 11.1 | 48.1 | 129 |
| L4 (8894169) | | 0.664 | 53.1 | 0.2 | 10.6 | 39.7 | 135 |
| L5 (8894170) | | 0.634 | 53.1 | 0.1 | 9.6 | 36.3 | 110 |
| L6 (8894171) | | 0.536 | 50.6 | 0.2 | 8.5 | 52.8 | 101 |
| L7 (8894172) | | 0.519 | 45.9 | <0.1 | 8.6 | 23.7 | 90.4 |
| L8 (8894173) | | 0.661 | 62.8 | 0.2 | 10.7 | 33.3 | 133 |
| L9 (8894174) | | 0.571 | 38.2 | 0.1 | 5.9 | 28.3 | 69.5 |
| L10 (8894175) | | 0.562 | 47.0 | <0.1 | 7.6 | 38.6 | 76.1 |
| L11 (8894176) | | 0.475 | 54.7 | 0.2 | 9.3 | 36.0 | 73.2 |
| L12 (8894177) | | 0.683 | 75.0 | 0.2 | 11.0 | 36.2 | 99.5 |
| L13 (8894178) | | 0.802 | 65.5 | 0.2 | 10.5 | 29.7 | 141 |
| L14 (8894179) | | 0.677 | 67.3 | 0.2 | 11.2 | 46.7 | 115 |
| L15 (8894180) | | 0.730 | 79.7 | 0.4 | 12.3 | 39.0 | 90.8 |
| L16 (8894181) | | 0.571 | 43.1 | 0.1 | 8.7 | 20.9 | 100 |
| L17 (8894182) | | 0.690 | 46.9 | 0.2 | 8.8 | 25.4 | 127 |
| L18 (8894183) | | 1.24 | 54.9 | 0.2 | 14.1 | 55.5 | 90.9 |
| L19 (8894184) | | 1.35 | 89.3 | 0.7 | 12.7 | 51.7 | 126 |
| L20 (8894185) | | 1.19 | 95.4 | 0.6 | 13.7 | 47.2 | 128 |
| L21 (8894186) | | 0.710 | 67.7 | 0.3 | 9.4 | 40.5 | 98.2 |
| M1 (8894187) | | 0.950 | 57.0 | 0.2 | 15.4 | 34.4 | 113 |
| M2 (8894188) | | 0.664 | 56.9 | 0.2 | 11.2 | 62.1 | 105 |
| M3 (8894189) | | 0.696 | 49.5 | 0.2 | 9.6 | 23.5 | 121 |
| M4 (8894190) | | 0.843 | 62.3 | 0.3 | 12.5 | 41.9 | 136 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282586

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 03, 2018

SAMPLE TYPE: Other

| Analyte: | U | V | W | Y | Zn | Zr |
|---------------------|-------|------|-----|------|------|------|
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm |
| RDL: | 0.005 | 0.5 | 0.1 | 0.1 | 0.5 | 0.5 |
| Sample ID (AGAT ID) | | | | | | |
| M5 (8894191) | 1.31 | 74.6 | 0.4 | 15.4 | 52.4 | 182 |
| M6 (8894192) | 1.18 | 77.4 | 0.3 | 15.2 | 37.7 | 167 |
| M8 (8894194) | 1.01 | 81.7 | 0.6 | 10.1 | 63.6 | 109 |
| M9 (8894195) | 1.26 | 96.7 | 1.0 | 10.6 | 84.5 | 113 |
| M10 (8894196) | 1.05 | 60.7 | 0.4 | 12.0 | 80.4 | 138 |
| M11 (8894197) | 1.14 | 74.4 | 0.4 | 13.6 | 65.3 | 132 |
| M12 (8894198) | 1.19 | 72.0 | 0.5 | 12.0 | 79.9 | 145 |
| M13 (8894199) | 1.01 | 65.0 | 0.3 | 11.2 | 62.7 | 153 |
| M14 (8894200) | 0.752 | 54.3 | 0.2 | 10.1 | 50.2 | 110 |
| M15 (8894201) | 0.994 | 90.8 | 0.4 | 12.6 | 57.6 | 149 |
| M16 (8894202) | 0.727 | 59.5 | 0.2 | 11.3 | 28.2 | 137 |
| M17 (8894203) | 0.727 | 65.2 | 0.2 | 9.6 | 24.5 | 116 |
| M18 (8894204) | 0.964 | 71.2 | 0.3 | 11.2 | 33.1 | 127 |
| M19 (8894205) | 1.14 | 95.7 | 0.5 | 12.2 | 39.4 | 128 |
| M20 (8894206) | 0.782 | 60.4 | 0.2 | 10.7 | 29.1 | 132 |
| M21 (8894207) | 1.17 | 76.9 | 0.5 | 11.6 | 41.4 | 139 |
| M22 (8894208) | 1.10 | 80.2 | 0.4 | 11.4 | 42.3 | 149 |
| M23 (8894209) | 1.13 | 61.4 | 0.3 | 12.9 | 36.0 | 160 |
| M24 (8894210) | 1.08 | 79.6 | 0.4 | 13.2 | 54.6 | 130 |
| M25 (8894211) | 1.20 | 77.2 | 0.4 | 14.2 | 37.5 | 174 |
| M26 (8894212) | 1.14 | 65.3 | 0.4 | 11.3 | 78.0 | 170 |
| M27 (8894213) | 0.630 | 54.7 | 0.1 | 9.1 | 31.1 | 97.0 |
| M28 (8894214) | 0.763 | 64.4 | 0.2 | 10.7 | 39.7 | 126 |
| M29 (8894215) | 0.889 | 57.1 | 0.3 | 10.0 | 35.3 | 159 |
| M30 (8894216) | 0.599 | 58.3 | 0.2 | 10.0 | 44.9 | 92.6 |
| M31 (8894217) | 0.737 | 64.5 | 0.1 | 11.5 | 29.0 | 95.5 |
| M32 (8894218) | 0.768 | 67.0 | 0.2 | 11.5 | 33.4 | 125 |
| M33 (8894219) | 0.788 | 72.2 | 0.4 | 11.6 | 35.6 | 122 |
| M34 (8894220) | 0.854 | 73.9 | 0.2 | 12.4 | 48.5 | 133 |
| M35 (8894221) | 0.825 | 83.9 | 0.3 | 12.1 | 49.6 | 161 |
| M36 (8894222) | 1.08 | 76.6 | 0.3 | 13.3 | 34.8 | 169 |
| M37 (8894223) | 0.805 | 68.9 | 0.2 | 11.2 | 35.7 | 114 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17T282586

PROJECT:

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CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 09, 2017

DATE RECEIVED: Nov 10, 2017

DATE REPORTED: Jan 03, 2018

SAMPLE TYPE: Other

| Analyte: | U | V | W | Y | Zn | Zr |
|---------------------|-------|------|-----|------|------|------|
| Unit: | ppm | ppm | ppm | ppm | ppm | ppm |
| Sample ID (AGAT ID) | RDL: | | | | | |
| M38 (8894224) | 0.716 | 67.4 | 0.2 | 10.3 | 37.4 | 98.2 |
| M39 (8894225) | 0.923 | 69.1 | 0.3 | 11.5 | 53.3 | 126 |
| M40 (8894226) | 0.802 | 65.8 | 0.2 | 12.4 | 34.0 | 119 |
| M41 (8894227) | 0.752 | 62.3 | 0.2 | 10.1 | 60.9 | 130 |

Comments: RDL - Reported Detection Limit

8894159-8894227 As, Sb values may be low due to digestion losses.

Certified By:



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| Parameter | REPLICATE #1 | | | | REPLICATE #2 | | | | REPLICATE #3 | | | | REPLICATE #4 | | | |
|-----------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|--------------|----------|-----------|-------|
| | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD | Sample ID | Original | Replicate | RPD |
| Ag | 8894159 | 0.25 | 0.29 | 14.8% | 8894179 | 0.220 | 0.225 | 2.2% | 8894200 | 1.88 | 1.02 | | 8894221 | 0.30 | 0.27 | 10.5% |
| Al | 8894159 | 7.03 | 7.05 | 0.3% | 8894179 | 6.74 | 6.67 | 1.0% | 8894200 | 6.59 | 6.34 | 3.9% | 8894221 | 6.46 | 6.81 | 5.3% |
| As | 8894159 | 1.63 | 1.67 | 2.4% | 8894179 | 3.1 | 3.8 | 20.3% | 8894200 | 2.6 | 1.8 | | 8894221 | 2.5 | 3.7 | |
| Ba | 8894159 | 515 | 525 | 1.9% | 8894179 | 503 | 508 | 1.0% | 8894200 | 522 | 501 | 4.1% | 8894221 | 466 | 476 | 2.1% |
| Be | 8894159 | 1.56 | 1.56 | 0.0% | 8894179 | 1.56 | 1.59 | 1.9% | 8894200 | 1.45 | 1.29 | 11.7% | 8894221 | 1.40 | 1.41 | 0.7% |
| Bi | 8894159 | 0.103 | 0.109 | 5.7% | 8894179 | 0.10 | 0.16 | | 8894200 | 0.097 | 0.091 | 6.4% | 8894221 | 0.10 | 0.10 | 0.0% |
| Ca | 8894159 | 1.36 | 1.36 | 0.0% | 8894179 | 1.48 | 1.50 | 1.3% | 8894200 | 1.48 | 1.40 | 5.6% | 8894221 | 1.53 | 1.58 | 3.2% |
| Cd | 8894159 | 0.074 | 0.087 | 16.1% | 8894179 | 0.10 | 0.09 | 10.5% | 8894200 | 0.05 | 0.07 | | 8894221 | 0.07 | 0.09 | 25.0% |
| Ce | 8894159 | 33.8 | 34.4 | 1.8% | 8894179 | 32.1 | 18.3 | | 8894200 | 28.9 | 32.1 | 10.5% | 8894221 | 23.7 | 27.6 | 15.2% |
| Co | 8894159 | 16.3 | 16.8 | 3.0% | 8894179 | 16.7 | 16.4 | 1.8% | 8894200 | 10.8 | 10.5 | 2.8% | 8894221 | 11.7 | 12.6 | 7.4% |
| Cr | 8894159 | 71.7 | 72.1 | 0.6% | 8894179 | 74.8 | 74.2 | 0.8% | 8894200 | 55.8 | 54.3 | 2.7% | 8894221 | 77.1 | 78.9 | 2.3% |
| Cs | 8894159 | 1.84 | 1.86 | 1.1% | 8894179 | 1.60 | 1.66 | 3.7% | 8894200 | 1.63 | 1.56 | 4.4% | 8894221 | 1.36 | 1.49 | 9.1% |
| Cu | 8894159 | 8.2 | 12.9 | | 8894179 | 10.9 | 10.7 | 1.9% | 8894200 | 9.57 | 7.85 | 19.7% | 8894221 | 4.0 | 4.0 | 0.0% |
| Fe | 8894159 | 2.35 | 2.36 | 0.4% | 8894179 | 2.69 | 2.67 | 0.7% | 8894200 | 2.11 | 2.04 | 3.4% | 8894221 | 3.06 | 3.21 | 4.8% |
| Ga | 8894159 | 18.2 | 19.1 | 4.8% | 8894179 | 17.2 | 18.1 | 5.1% | 8894200 | 18.1 | 17.3 | 4.5% | 8894221 | 17.9 | 19.3 | 7.5% |
| Ge | 8894159 | < 0.05 | < 0.05 | 0.0% | 8894179 | < 0.05 | < 0.05 | 0.0% | 8894200 | < 0.05 | < 0.05 | 0.0% | 8894221 | < 0.05 | < 0.05 | 0.0% |
| Hf | 8894159 | 3.3 | 3.3 | 0.0% | 8894179 | 2.4 | 2.4 | 0.0% | 8894200 | 2.4 | 2.6 | 8.0% | 8894221 | 3.4 | 3.7 | 8.5% |
| In | 8894159 | 0.034 | 0.033 | 3.0% | 8894179 | 0.026 | 0.030 | 14.3% | 8894200 | 0.0252 | 0.0223 | 12.2% | 8894221 | 0.029 | 0.030 | 3.4% |
| K | 8894159 | 1.80 | 1.80 | 0.0% | 8894179 | 1.56 | 1.54 | 1.3% | 8894200 | 1.71 | 1.68 | 1.8% | 8894221 | 1.44 | 1.51 | 4.7% |
| La | 8894159 | 13.5 | 13.8 | 2.2% | 8894179 | 14.5 | 8.1 | | 8894200 | 11.0 | 12.6 | 13.6% | 8894221 | 10.7 | 12.8 | 17.9% |
| Li | 8894159 | 18.3 | 18.4 | 0.5% | 8894179 | 17.6 | 17.2 | 2.3% | 8894200 | 15.0 | 14.3 | 4.8% | 8894221 | 16.6 | 17.8 | 7.0% |
| Mg | 8894159 | 0.75 | 0.75 | 0.0% | 8894179 | 0.768 | 0.751 | 2.2% | 8894200 | 0.63 | 0.61 | 3.2% | 8894221 | 0.67 | 0.70 | 4.4% |
| Mn | 8894159 | 317 | 313 | 1.3% | 8894179 | 380 | 392 | 3.1% | 8894200 | 328 | 318 | 3.1% | 8894221 | 417 | 437 | 4.7% |
| Mo | 8894159 | 0.540 | 0.648 | 18.2% | 8894179 | 0.33 | 0.33 | 0.0% | 8894200 | 0.46 | 0.41 | 11.5% | 8894221 | 0.46 | 0.46 | 0.0% |
| Na | 8894159 | 1.96 | 1.98 | 1.0% | 8894179 | 2.05 | 2.08 | 1.5% | 8894200 | 2.19 | 2.07 | 5.6% | 8894221 | 2.06 | 2.08 | 1.0% |
| Nb | 8894159 | 7.90 | 7.72 | 2.3% | 8894179 | 5.70 | 6.39 | 11.4% | 8894200 | 5.71 | 5.63 | 1.4% | 8894221 | 6.86 | 6.82 | 0.6% |
| Ni | 8894159 | 39.5 | 41.5 | 4.9% | 8894179 | 40.4 | 39.3 | 2.8% | 8894200 | 27.5 | 27.1 | 1.5% | 8894221 | 29.5 | 29.5 | 0.0% |
| P | 8894159 | 481 | 497 | 3.3% | 8894179 | 522 | 490 | 6.3% | 8894200 | 389 | 403 | 3.5% | 8894221 | 551 | 566 | 2.7% |
| Pb | 8894159 | 12.2 | 13.6 | 10.9% | 8894179 | 11.7 | 11.9 | 1.7% | 8894200 | 11.2 | 11.3 | 0.9% | 8894221 | 10.6 | 10.7 | 0.9% |
| Rb | 8894159 | 60.7 | 62.4 | 2.8% | 8894179 | 53.9 | 56.8 | 5.2% | 8894200 | 53.9 | 53.3 | 1.1% | 8894221 | 46.8 | 49.9 | 6.4% |
| Re | 8894159 | < 0.002 | < 0.002 | 0.0% | 8894179 | < 0.002 | < 0.002 | 0.0% | 8894200 | < 0.002 | < 0.002 | 0.0% | 8894221 | < 0.002 | < 0.002 | 0.0% |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

| | | | | | | | | | | | | | | | | |
|----|---------|--------|--------|-------|---------|--------|--------|-------|---------|--------|--------|-------|---------|-------|--------|-------|
| S | 8894159 | 0.05 | 0.05 | 0.0% | 8894179 | 0.03 | 0.03 | 0.0% | 8894200 | 0.03 | 0.03 | 0.0% | 8894221 | 0.04 | 0.04 | 0.0% |
| Sb | 8894159 | 0.224 | 0.254 | 12.6% | 8894179 | 0.13 | 0.13 | 0.0% | 8894200 | 0.17 | 0.12 | | 8894221 | 0.16 | 0.15 | 6.5% |
| Sc | 8894159 | 9.03 | 9.10 | 0.8% | 8894179 | 8.3 | 8.2 | 1.2% | 8894200 | 8.2 | 8.1 | 1.2% | 8894221 | 9.2 | 9.4 | 2.2% |
| Se | 8894159 | 0.8 | 0.8 | 0.0% | 8894179 | 0.8 | 0.5 | | 8894200 | 0.7 | 0.7 | 0.0% | 8894221 | 0.84 | 1.05 | 22.2% |
| Sn | 8894159 | 1.5 | 1.5 | 0.0% | 8894179 | 1.15 | 1.21 | 5.1% | 8894200 | 2.13 | 2.40 | 11.9% | 8894221 | 1.31 | 1.39 | 5.9% |
| Sr | 8894159 | 282 | 287 | 1.8% | 8894179 | 316 | 311 | 1.6% | 8894200 | 313 | 309 | 1.3% | 8894221 | 303 | 319 | 5.1% |
| Ta | 8894159 | 0.57 | 0.61 | 6.8% | 8894179 | 0.413 | 0.473 | 13.5% | 8894200 | 0.60 | 0.40 | | 8894221 | 0.548 | 0.499 | 9.4% |
| Te | 8894159 | < 0.01 | < 0.01 | 0.0% | 8894179 | < 0.01 | < 0.01 | 0.0% | 8894200 | < 0.01 | < 0.01 | 0.0% | 8894221 | 0.02 | < 0.01 | |
| Th | 8894159 | 4.11 | 4.75 | 14.4% | 8894179 | 6.0 | 2.5 | | 8894200 | 3.43 | 3.76 | 9.2% | 8894221 | 3.9 | 3.9 | 0.0% |
| Ti | 8894159 | 0.283 | 0.273 | 3.6% | 8894179 | 0.27 | 0.28 | 3.6% | 8894200 | 0.26 | 0.25 | 3.9% | 8894221 | 0.34 | 0.34 | 0.0% |
| Tl | 8894159 | 0.280 | 0.298 | 6.2% | 8894179 | 0.26 | 0.27 | 3.8% | 8894200 | 0.25 | 0.25 | 0.0% | 8894221 | 0.22 | 0.23 | 4.4% |
| U | 8894159 | 0.913 | 0.979 | 7.0% | 8894179 | 0.677 | 0.603 | 11.6% | 8894200 | 0.752 | 0.774 | 2.9% | 8894221 | 0.825 | 0.929 | 11.9% |
| V | 8894159 | 57.5 | 58.0 | 0.9% | 8894179 | 67.3 | 65.2 | 3.2% | 8894200 | 54.3 | 53.9 | 0.7% | 8894221 | 83.9 | 82.5 | 1.7% |
| W | 8894159 | 0.5 | 0.5 | 0.0% | 8894179 | 0.2 | 0.2 | 0.0% | 8894200 | 0.2 | 0.2 | 0.0% | 8894221 | 0.3 | 0.3 | 0.0% |
| Y | 8894159 | 12.2 | 11.3 | 7.7% | 8894179 | 11.2 | 10.8 | 3.6% | 8894200 | 10.1 | 10.1 | 0.0% | 8894221 | 12.1 | 12.3 | 1.6% |
| Zn | 8894159 | 40.7 | 44.3 | 8.5% | 8894179 | 46.7 | 48.1 | 3.0% | 8894200 | 50.2 | 43.4 | 14.5% | 8894221 | 49.6 | 51.8 | 4.3% |
| Zr | 8894159 | 165 | 149 | 10.2% | 8894179 | 115 | 114 | 0.9% | 8894200 | 110 | 114 | 3.6% | 8894221 | 161 | 161 | 0.0% |



CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

| Parameter | CRM #1 (ref.SY-4) | | | | CRM #2 (ref.GTS-2A) | | | | CRM #3 (ref.Till-2) | | | | CRM #4 (ref.SY-4) | | | |
|-----------|-------------------|--------|----------|------------|---------------------|--------|----------|------------|---------------------|--------|----------|------------|-------------------|--------|----------|------------|
| | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits | Expect | Actual | Recovery | Limits |
| Al | 10.95 | 10.76 | 98% | 90% - 110% | 6.96 | 6.52 | 94% | 90% - 110% | 8.17 | 8.5 | 104% | 90% - 110% | 10.95 | 10.96 | 100% | 90% - 110% |
| As | | | | | 124 | 124 | 100% | 90% - 110% | 26 | 28 | 107% | 90% - 110% | | | | |
| Ba | 340 | 336 | 99% | 90% - 110% | 186 | 174 | 93% | 90% - 110% | 540 | 550 | 101% | 90% - 110% | 340 | 342 | 100% | 90% - 110% |
| Be | | | | | | | | | 4.0 | 4.2 | 105% | 90% - 110% | | | | |
| Ca | 5.72 | 5.68 | 99% | 90% - 110% | 4.01 | 3.76 | 94% | 90% - 110% | 0.907 | 0.959 | 106% | 90% - 110% | 5.72 | 5.73 | 100% | 90% - 110% |
| Ce | 122 | 130 | 107% | 90% - 110% | 24 | 22 | 92% | 90% - 110% | 98 | 107 | 110% | 90% - 110% | 122 | 122 | 100% | 90% - 110% |
| Co | 2.8 | 3.0 | 107% | 90% - 110% | 22.1 | 24.2 | 109% | 90% - 110% | | | | | 2.8 | 3.0 | 107% | 90% - 110% |
| Cr | | | | | | | | | 60.3 | 59.3 | 98% | 90% - 110% | | | | |
| Cu | 7 | 7 | 95% | 90% - 110% | 88.6 | 81.6 | 92% | 90% - 110% | 150 | 153 | 102% | 90% - 110% | | | | |
| Fe | 4.34 | 3.98 | 92% | 90% - 110% | 7.56 | 6.85 | 90% | 90% - 110% | 3.77 | 3.72 | 99% | 90% - 110% | 4.34 | 4.05 | 93% | 90% - 110% |
| Ga | 35 | 40 | 114% | 90% - 110% | | | | | | | | | 35 | 39 | 111% | 90% - 110% |
| K | 1.37 | 1.39 | 101% | 90% - 110% | 2.021 | 1.941 | 96% | 90% - 110% | | | | | 1.37 | 1.42 | 104% | 90% - 110% |
| La | 58 | 60 | 104% | 90% - 110% | | | | | 44 | 47 | 106% | 90% - 110% | 58 | 55 | 95% | 90% - 110% |
| Li | 37 | 39 | 105% | 90% - 110% | | | | | 47 | 48 | 103% | 90% - 110% | 37 | 39 | 105% | 90% - 110% |
| Mg | 0.325 | 0.303 | 93% | 90% - 110% | 2.412 | 2.305 | 96% | 90% - 110% | 1.10 | 1.11 | 101% | 90% - 110% | 0.325 | 0.313 | 96% | 90% - 110% |
| Mn | | | | | 1510 | 1360 | 90% | 90% - 110% | 780 | 753 | 97% | 90% - 110% | | | | |
| Mo | | | | | | | | | 14 | 14 | 103% | 90% - 110% | | | | |
| Na | 5.267 | 5.464 | 104% | 90% - 110% | 0.617 | 0.6 | 97% | 90% - 110% | 1.624 | 1.781 | 110% | 90% - 110% | 5.267 | 5.512 | 105% | 90% - 110% |
| Nb | | | | | | | | | 20 | 19 | 95% | 90% - 110% | 13 | 15 | 115% | 90% - 110% |
| Ni | 9 | 9 | 95% | 90% - 110% | 77.1 | 69.8 | 91% | 90% - 110% | 32 | 34 | 105% | 90% - 110% | 9 | 7 | 82% | 90% - 110% |
| P | | | | | 892 | 968 | 109% | 90% - 110% | | | | | | | | |
| Pb | 10 | 10 | 102% | 90% - 110% | | | | | 31 | 33 | 107% | 90% - 110% | 10 | 9 | 95% | 90% - 110% |
| Rb | 55 | 57 | 103% | 90% - 110% | | | | | 143 | 155 | 108% | 90% - 110% | 55 | 55 | 99% | 90% - 110% |
| S | | | | | 0.348 | 0.375 | 108% | 90% - 110% | | | | | | | | |
| Sc | | | | | | | | | 12 | 12 | 104% | 90% - 110% | 1.1 | 0.8 | 74% | 90% - 110% |
| Sr | 1191 | 1231 | 103% | 90% - 110% | 92.8 | 88.7 | 96% | 90% - 110% | 144 | 155 | 107% | 90% - 110% | 1191 | 1246 | 105% | 90% - 110% |
| Ta | 0.9 | 1 | 106% | 90% - 110% | | | | | 1.9 | 1.7 | 89% | 90% - 110% | 0.9 | 1.1 | 122% | 90% - 110% |
| Th | 1.4 | 1.2 | 87% | 90% - 110% | | | | | 18.4 | 18.6 | 101% | 90% - 110% | 1.4 | 1.2 | 83% | 90% - 110% |
| Ti | 0.172 | 0.163 | 95% | 90% - 110% | | | | | 0.53 | 0.48 | 90% | 90% - 110% | 0.172 | 0.168 | 98% | 90% - 110% |
| U | 0.8 | 0.6 | 71% | 90% - 110% | | | | | 5.7 | 5.2 | 91% | 90% - 110% | | | | |
| V | 8 | 7 | 82% | 90% - 110% | | | | | 77 | 76 | 98% | 90% - 110% | 8 | 7 | 89% | 90% - 110% |



AGAT Laboratories

Quality Assurance - Certified Reference materials

AGAT WORK ORDER: 17T282586

PROJECT:

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 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: CRUZ COBALT CORP.

ATTENTION TO: Jason Gigliotti, Jim Nelson

| | | | | | | | | | | | | | | | | |
|----|----|----|-----|------------|-----|-----|-----|------------|-----|-----|------|------------|----|----|-----|------------|
| W | | | | | | | | | 5 | 5 | 100% | 90% - 110% | | | | |
| Y | | | | | | | | | 40 | 37 | 92% | 90% - 110% | | | | |
| Zn | 93 | 92 | 99% | 90% - 110% | 208 | 192 | 92% | 90% - 110% | 130 | 127 | 98% | 90% - 110% | 93 | 88 | 95% | 90% - 110% |

Method Summary

CLIENT NAME: CRUZ COBALT CORP.

AGAT WORK ORDER: 17T282586

PROJECT:

ATTENTION TO: Jason Gigliotti, Jim Nelson

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|----------------|---------------|----------------------|----------------------|
| Solid Analysis | | | |
| Ag | MIN-200-12020 | | ICP-MS |
| Al | MIN-200-12020 | | ICP/OES |
| As | MIN-200-12020 | | ICP-MS |
| Ba | MIN-200-12020 | | ICP-MS |
| Be | MIN-200-12020 | | ICP-MS |
| Bi | MIN-200-12020 | | ICP-MS |
| Ca | MIN-200-12020 | | ICP/OES |
| Cd | MIN-200-12020 | | ICP-MS |
| Ce | MIN-200-12020 | | ICP-MS |
| Co | MIN-200-12020 | | ICP-MS |
| Cr | MIN-200-12020 | | ICP/OES |
| Cs | MIN-200-12020 | | ICP-MS |
| Cu | MIN-200-12020 | | ICP-MS |
| Fe | MIN-200-12020 | | ICP/OES |
| Ga | MIN-200-12020 | | ICP-MS |
| Ge | MIN-200-12020 | | ICP-MS |
| Hf | MIN-200-12020 | | ICP-MS |
| In | MIN-200-12020 | | ICP-MS |
| K | MIN-200-12020 | | ICP/OES |
| La | MIN-200-12020 | | ICP-MS |
| Li | MIN-200-12020 | | ICP-MS |
| Mg | MIN-200-12020 | | ICP/OES |
| Mn | MIN-200-12020 | | ICP/OES |
| Mo | MIN-200-12020 | | ICP-MS |
| Na | MIN-200-12020 | | ICP/OES |
| Nb | MIN-200-12020 | | ICP-MS |
| Ni | MIN-200-12020 | | ICP-MS |
| P | MIN-200-12020 | | ICP/OES |
| Pb | MIN-200-12020 | | ICP-MS |
| Rb | MIN-200-12020 | | ICP-MS |
| Re | MIN-200-12020 | | ICP-MS |
| S | MIN-200-12020 | | ICP/OES |
| Sb | MIN-200-12020 | | ICP-MS |
| Sc | MIN-200-12020 | | ICP-MS |
| Se | MIN-200-12020 | | ICP-MS |
| Sn | MIN-200-12020 | | ICP-MS |
| Sr | MIN-200-12020 | | ICP-MS |
| Ta | MIN-200-12020 | | ICP-MS |
| Te | MIN-200-12020 | | ICP-MS |
| Th | MIN-200-12020 | | ICP-MS |
| Ti | MIN-200-12020 | | ICP/OES |
| Tl | MIN-200-12020 | | ICP-MS |
| U | MIN-200-12020 | | ICP-MS |
| V | MIN-200-12020 | | ICP/OES |
| W | MIN-200-12020 | | ICP-MS |
| Y | MIN-200-12020 | | ICP-MS |
| Zn | MIN-200-12020 | | ICP-MS |
| Zr | MIN-200-12020 | | ICP-MS |