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Environmental Baseline & Rehabilitation on the Gowganda Project, Gowganda Tailings, Haultain & Nicol Township, Ontario, Canada

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1. OVERVIEW

1.1 PROJECT NAME

This project is known as the **Gowganda Project**.

1.2 SUMMARY

Battery Mineral Resources Ltd. (BMR) undertook an environmental baseline sampling campaign using rotasonic drilling at the Gowganda Tailings (“tailings”) from September 11th, 2018 to September 19th, 2018 comprising 8 days of drilling (Table 1) and 27 or more-man days spent by CXS Geologists. 103 holes totaling 772.83 meters were drilled to determine baseline geochemical values to assist in the development of a long-term site rehabilitation plan. The drilling was completed by Boart Longyear of Haileybury, Ontario, with support and sampling services provided by Canadian Exploration Services Ltd. (CXS) of Larder Lake, Ontario under consultation from Overburden Drilling Management Ltd. (ODM) of Ottawa, Ontario. Project supervision was provided by Peter Doyle, FAusIMM.

Historic sampling of the tailings had focussed on the silver content whereas the 2018 drill program samples were analysed for a 48-element suite so that individual elemental concentrations and distribution variations could be identified and mapped.

Core samples were obtained by rotasonic drilling using a 4-inch (~10cm) hole diameter. Core was sampled and packaged on site by CXS Geologists and technical support staff then transported by the same staff to CXS in Larder Lake for storage. Select holes from a grid-like drill pattern had their samples sent to ODM in Ottawa to prepare for geochemical analysis then sent by ODM to ALS Ltd. (ALS) in Sudbury, Ontario, for 4-acid digestion geochemical analysis.

An additional 227 tailings samples from 32 historic holes drilled by Temex Resources Corp. in 2012 were re-sampled by CXS Geologists and sent to ALS for full 48 element geochemical analysis to compare results from the more recent BMR sampling program.

The drilling program and further analytical analysis of the tailings provides a comprehensive elemental suite dataset. This was completed through drilling a grid of 50m spaced vertical holes with a tighter 25m spacing infill grid through the thickest sections of tailings.

Story Environmental Inc. (SEI) of Haileybury, Ontario was originally contracted by BMR to conduct environmental studies of several BMR properties including the Gowganda project. SEI initiated surface and groundwater, hydrology, air quality, aquatics and terrestrial studies, including the drilling of 7 water well monitoring holes. To date, BMR has not been provided with any environmental reports or sampling data collected by SEI aside from drill hole logs and monthly reports.

In addition to the environmental studies, SEI supervised the rehabilitation of 10 historic workings that were previously identified in the MNDM’s AMIS files as being mine hazards. Table 1 summarizes all of the environmental and rehabilitation work conducted on the Gowganda tailings and former mine sites.

All coordinates presented in this report are in UTM NAD83 Z17N.

1.3 ACTIVITIES UNDERTAKEN

Work Performed	Dates	Number of Items
Rotasonic Drilling	September 11 th , to September 19 th , 2018	103 holes
Sample Preparation	September 13 th , to December 5 th , 2018	346 samples
Assaying and Re-Sampling	October 1 st , 2018 to September 17 th , 2019	529 samples
Environmental Monitoring	March 31 st , 2018 to March 31 st , 2019	7 holes
Rehabilitation	October 2018, to December 2018	10 historic workings

Table 1: Activity undertaken details.

2. LOCATION DETAILS

2.1 PROPERTY & LOCATION

The Gowganda tailings fall within Battery Mineral Resources' (BMR) Gowganda project which comprises 1455 mining cell claims and 4 mining leases, totaling 31641.59 hectares, in Morel, Shillington, Rankin, Raymond, Knight, Van Hise, Haultain, Chown, Lawson, Nicol, Leith, Milner and Corkill townships (Figures 2 & 3) near the village of Gowganda in the District of Timiskaming. The general location of the Gowganda tailings is shown in Figure 1.

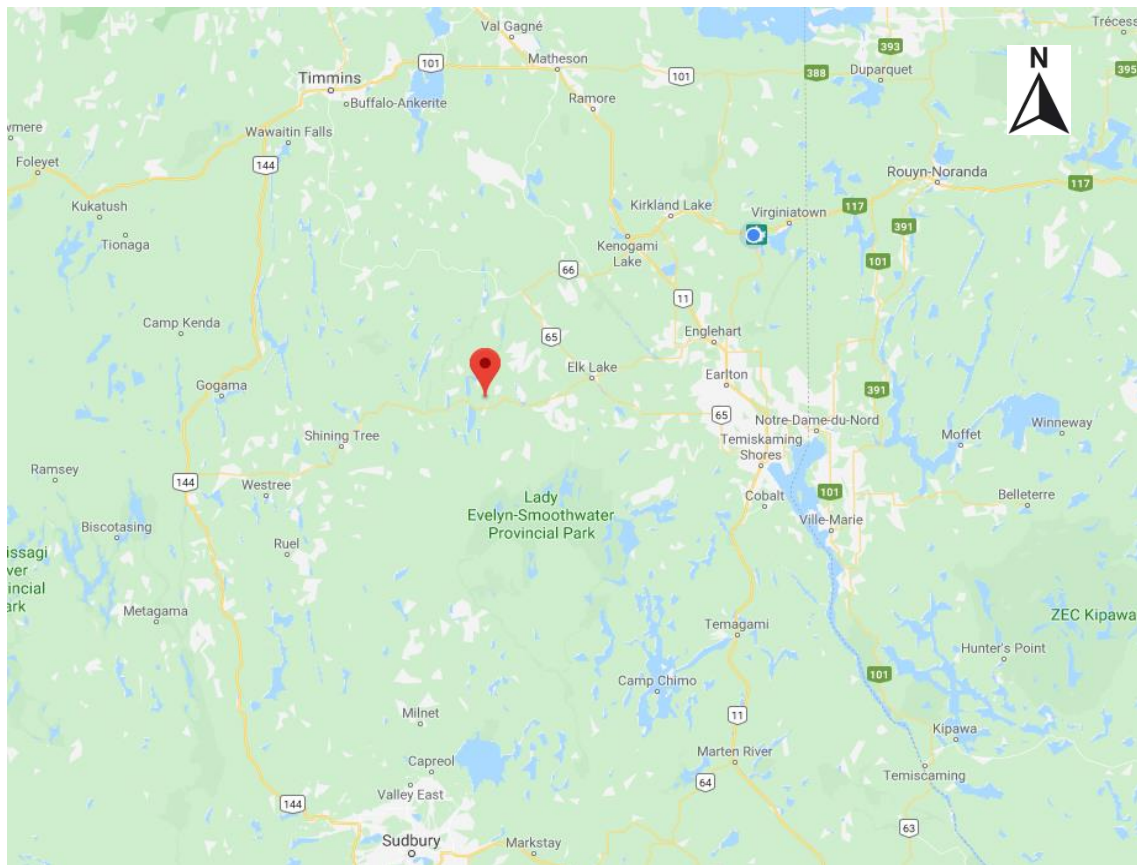


Figure 1: Location of the Gowganda Project (Map data ©2019 Google)

2.2 ACCESS

Access to the property can be made by taking HWY 560 west from Elk Lake, Ontario for 37.7 km to Everett Lake road. Everett Lake road can be taken for 2.7 km north and the Gowganda tailings will be found on the east side of the road.

2.3 MINING CLAIMS

The Battery Mineral Resources' (BMR) Gowganda project is comprised of 1455 mining cell claims and 4 mining leases, totaling 31641.59 hectares, in Morel, Shillington, Rankin, Raymond, Knight, Van Hise, Haultain, Chown, Lawson, Nicol, Leith, Milner and Corkill townships (Figures 2 & 3). The BMR property consists of wholly owned staked units, leased claims, and claims under option from a number of individuals and companies.

The area of environmental drilling and rehabilitation work includes mining leases numbered LEA-109391 and LEA-109394 which transitioned into provincial grid cells 41P10J362 and 41P10J382 (Table 2) located in the south boundary region of Haultain Township, within the Larder Lake Mining Division.

Lease Number	Provincial Grid Cell ID	Ownership of Land	Township
LEA-109391	41P10J362 41P10J382	Battery Mineral Resources Limited	Haultain
LEA-109394	41P10J361 41P10J362 41P10J382	Battery Mineral Resources Limited	Haultain
LEA-109393	41P10G002 41P10G003 41P10G022	Battery Mineral Resources Limited	Haultain and Nicol

Table 2: Mining Lands and Cells Information

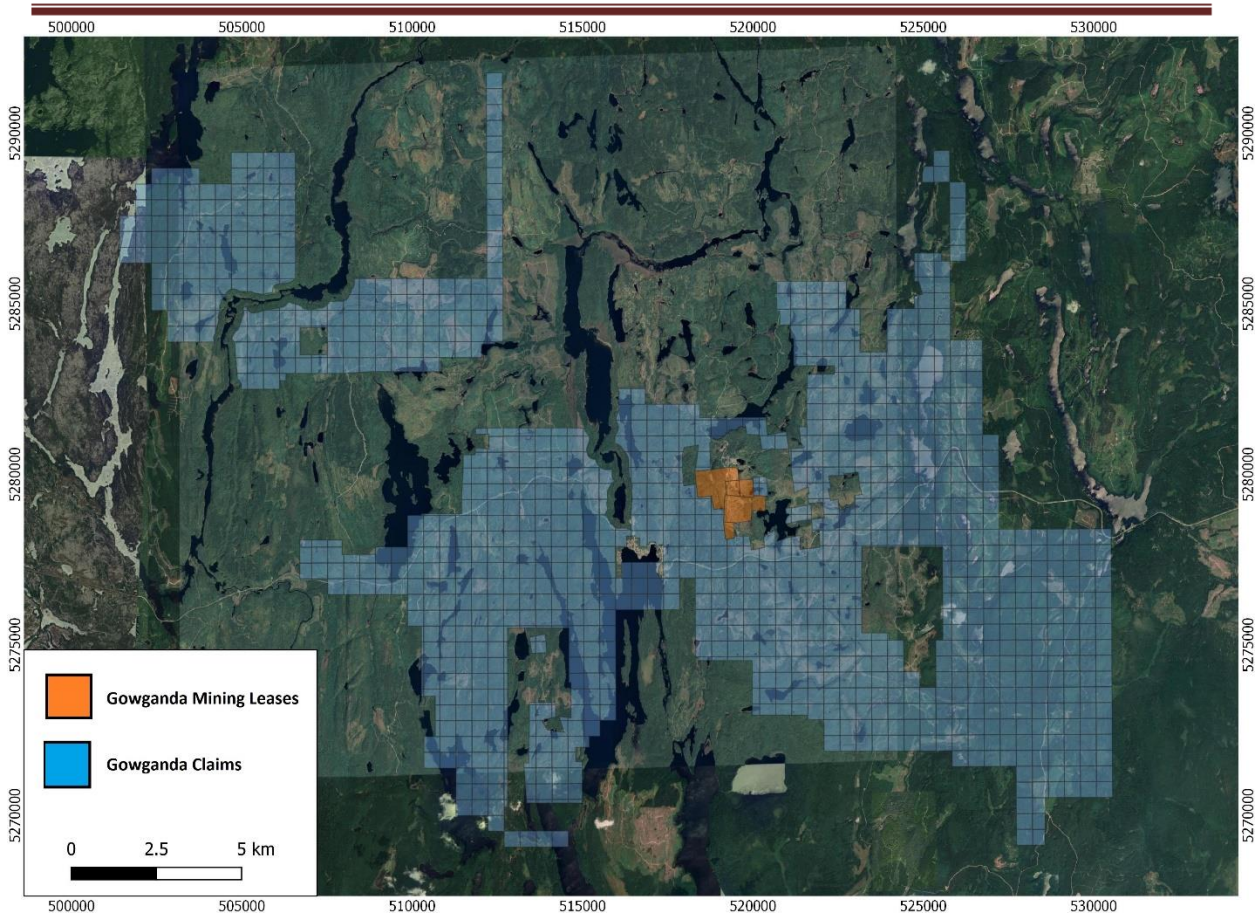


Figure 2: BMR's broader Gowganda project claims (blue squares) and leases (orange squares) overlain on a satellite image.

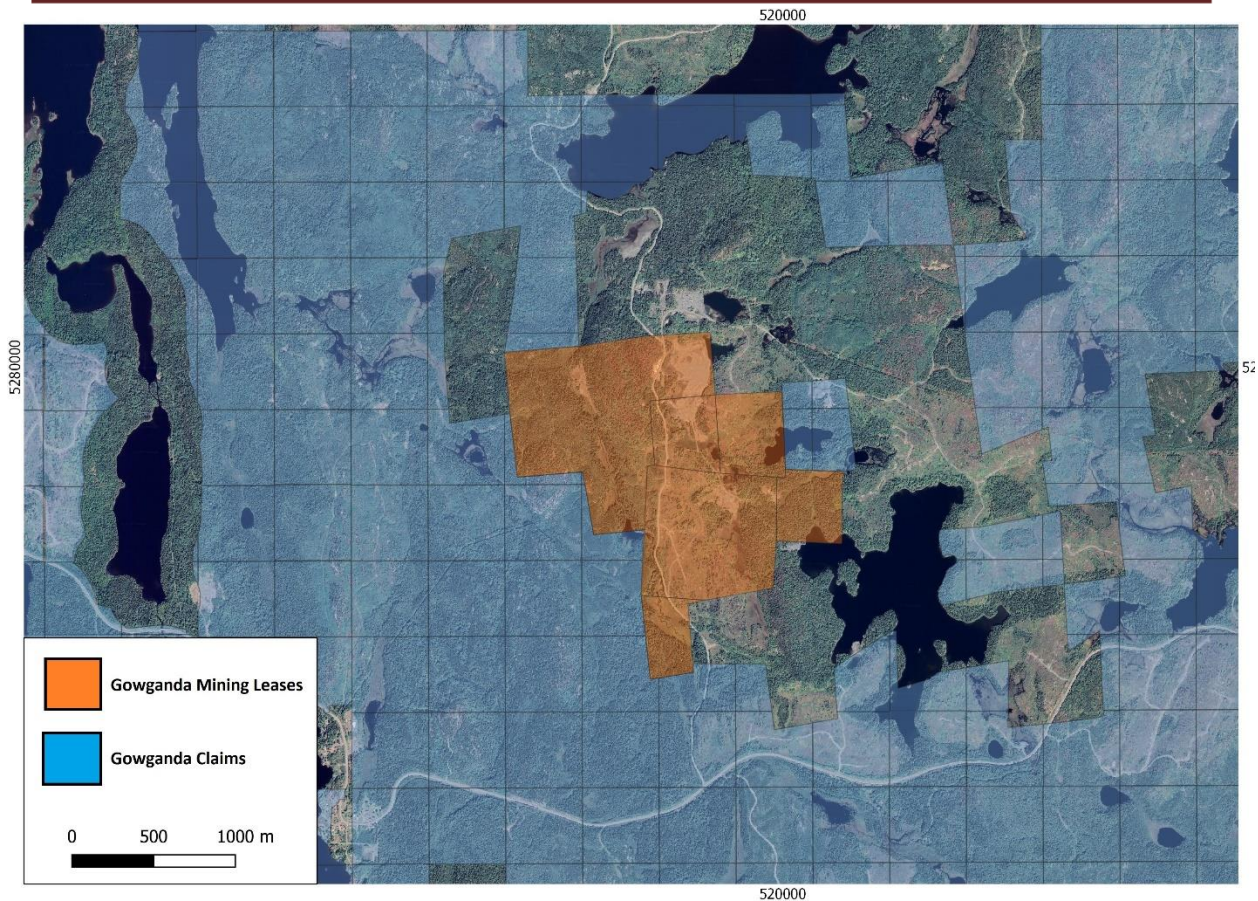


Figure 3: Gowganda project claims (blue squares) and leases (orange squares) overlain on a satellite image.

2.4 CLIMATE, PHYSIOGRAPHY AND ECOLOGY

The following three paragraphs are taken from Campbell, J. *et al.* 2011.

The Gowganda project, located in Northern Ontario, usually experiences continental climate with warm dry summers and cold dry winters that last 4-5 months. Temperatures in summer range between 5°C to 30°C. In winter months (late November to early March) temperatures range between -8°C and -20°C with a few cold snaps where temperatures can drop to -25°C to -35°C. During most winters, swamps, lakes, and streams freeze. The area receives approximately 900 mm of precipitation with slightly more falling in summer months. Total Mean snowfall is approximately 300 cm.

Topography is subdued with glacially rounded low-lying outcrops separated by swamps, lakes, creeks and beaver ponds. Bedrock exposures comprise approximately 10% of the surface area on the property with the remainder of the area partially covered with Holocene glacio-fluvial deposits that are up to 15 m thick.

Vegetation on the property is consists mostly of recent re-growth of alder, poplar and spruce. Swampy area contain black spruce, alder and cedar and dry areas are dominated by mixed boreal forests such as spruce, jack pine, maple and alder. Due to extensive mining and exploration activities surrounding the various former operating mines on the property, much of the original forest growth has been cut and most of the property is covered by dense alder and shrubs.

A variety of wildlife inhabit the project area. Knight Piesold Ltd. conducted a comprehensive set of wildlife surveys in 2006 to 2008. Some of following wildlife named were mentioned in by Knight Piesold in 2008. Common large mammals include but are not limited to wolves, bears and moose. Small mammals include but are not limited to beavers, foxes, lynx, hares, rabbits, mice and voles. Birds include but are not limited to grouse, mallards, teals, ravens, crows, herons, blue jays, whiskey jacks, chickadee's, geese and loons. Aquatic life includes but is not limited to frogs, crayfish, bass, pickerel and suck-erfish.

2.5 REGIONAL AND LOCAL GEOLOGY

The Gowganda project area lies along the eastern margin of the Proterozoic Southern province within the Cobalt Embayment bounded by Archean basement rocks of the Superior province to the north and east, and by the Grenville province to the south (Joyce, 2011).

The project area is underlain by Early Proterozoic rocks of the Huronian Supergroup deposited between 2500 to 2200 million years ago. They rest unconformably over Archean granitic, meta-volcanic and metasedimentary rocks of the Superior province's Abitibi greenstone belt (Joyce, 2011; Hanych, 1999). The rocks comprising the Huronian Supergroup in the project area consist primarily of rocks from the Gowganda and Lorrain formations of the Cobalt Group, the youngest stratigraphic section of the Huronian Supergroup (Joyce, 2011).

The Gowganda Formation is the basal unit of the Cobalt Group and is composed of laminated siltstones and argillites, sandstones and a conglomeratic unit characterized by numerous felsic granitic drop stones (Lindsey, 1969; Siemiatwoska, 1977). The Lorrain Formation consists of pebbly sandstones, conglomerates and is capped by quartzite (Siemiatwoska, 1977). Both formations display strong evidence for a fluvial origin through flame structures, graded bedding and rippled tops (Lindsey, 1969).

Both the underlying Archean rocks and Huronian sediments were intruded by a large mafic sill known as the Nipissing Diabase between 2220 to 2217 million years ago (Palmer et al., 2007). A number of phases define the Nipissing Diabase but compositionally it is considered an olivine tholeiite and occurs as undulating gabbroic sills with a relatively uniform thickness of 980-100 m (Jambor 1971; Joyce 2011; Siddom and James, 1999). The undulatory nature of the sill creates a series of peaks and troughs and in the

project area the Nipissing acts as a bowl which underlies the volcanics at approximately 400 m.

2.6 EXPLORATION, MINING & PROPERTY HISTORY

There have been many historical mining and exploration projects carried out over the years within the project area (Figure 4). The following list describes details of the previous geoscience work which was collected in part by the Mines and Minerals division and provided by OGSEarth (MNDM & OGSEarth 2018).

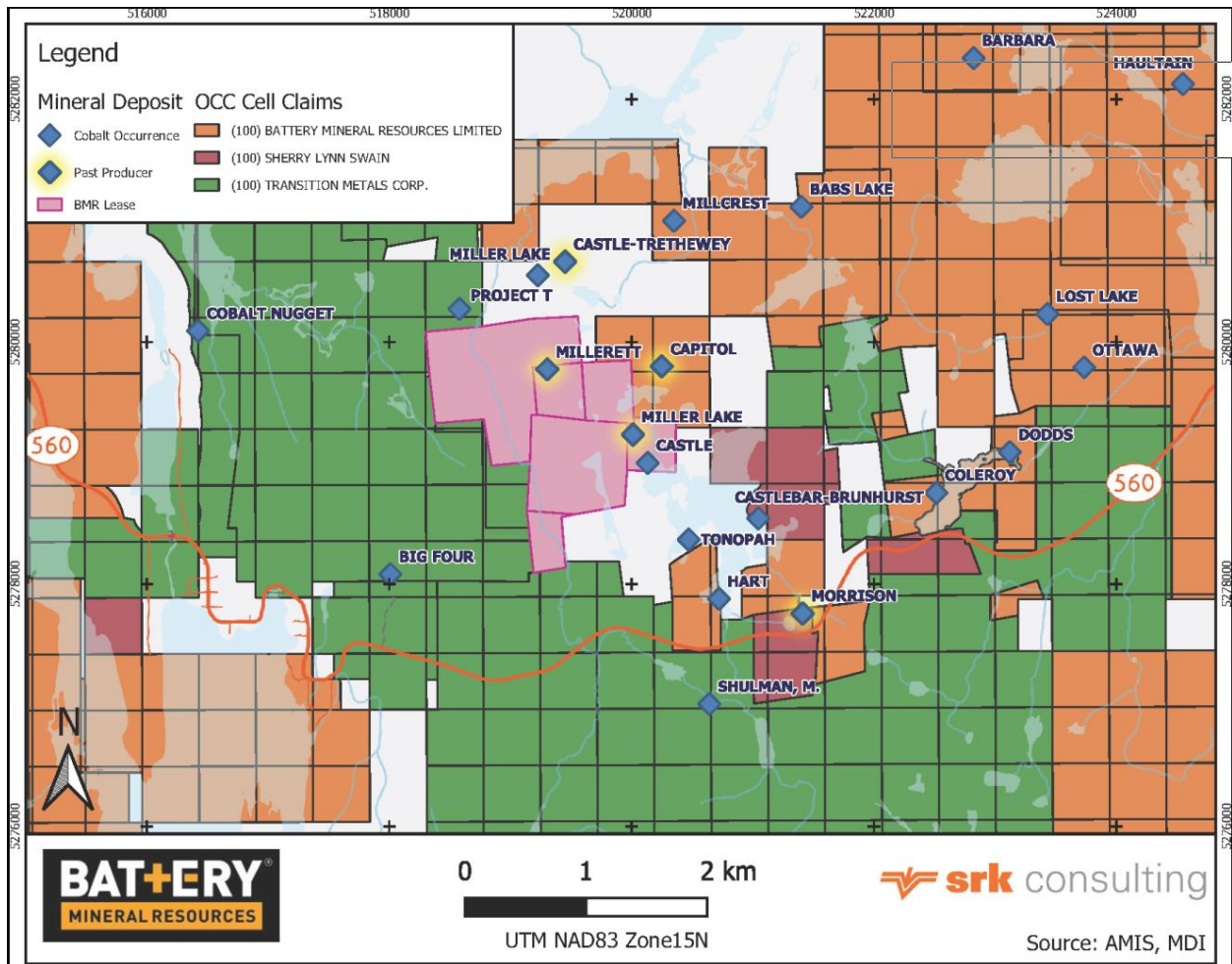


Figure 4: Past Producing Mines – Gowganda-Camp

Exploration & Mining History

1908: Capitol Silver Mines/Trethewey Silver Cobalt Mines

Acquired the Capitol property among other neighbouring properties in the Gowganda camp. Initial surface work was completed (stripping/trenching) and a 44-foot shaft was sunk into a north-south trending vein carrying iron-cobalt-nickel arsenides with minor silver. (File 41P10NE0016).

1920-1931: Capitol Silver Mines/Trethewey Silver Cobalt Mines (Castle-Trethewey)

Major production was conducted across all Gowganda properties with 6,461,021 ounces silver and 299,847 ounces cobalt produced. The majority coming from the Castle No. 3 Shaft. (File 41P10NE0016).

1925: Capitol Silver Mines/Trethewey Silver Cobalt Mines (Castle-Trethewey)

Sunk a second shaft, 60 ft east of the initial shaft which reached a final depth of 819 ft. This second shaft would be referred to as the 'Capitol Shaft'. (File 41P10NE0016).

1951-66 and 1969-1971: Castle-Trethewey Mines Ltd./McIntyre Porcupine Mines/Siscoe Metals

During these times and under several companies the Capitol Mine was actively mining and produced 11,437,181 ounces silver and 209,474 ounces cobalt. (File 41P10NE0016).

1976: Milner Consolidated Silver Mines Ltd. (File 41P10NE0016) *Compilation and Interpretation – Haultain and Nicol Township*

Kenneth H. Darke Consultants Limited compiled, interpreted, and concluded that vein systems and areas of potential economic interest within the properties were not sufficiently evaluated. Drilling and detailed geological evaluation was recommended to assess the potential of this area.

1987: Canadian Lencourt Mines Ltd. (File 41P10NE0023) *Geochemical Sampling – Haultain and Nicol Township*

Canadian Lencourt Mines Ltd and Sandy K. Mines conducted geochemical sampling on mine tailings on the Siscoe Metals property. It was concluded that the silver tailings at Sandy K are amenable to treatment. Recoveries were estimated to yield significant profit over a 7-year span.

2007: Amador Gold Corp. (File 20000002177) *Magnetometer Survey – Haultain Township*

Larder Geophysics Ltd. performed magnetometer survey over 3.3875 line-km

of the Capitol Mine Grid. Three significantly high magnetic intensities were observed. A northwest trending magnetic high was interpreted as a geological boundary, whereas the sources of a southwest linear trend and a high anomaly observed in the lake region could not be configured.

2008: Amador Gold Corp. (File 20000002746)
Very Low Frequency EM Survey – Haultain Township

Larder Geophysics Ltd. conducted a VLF EM survey over 3.4875 line-km of the Capitol Mine Grid. High magnetic intensities were mainly observed in the vicinity of an old mine. An intense north-northwest trending anomaly and a strong axis was observed, but their sources were undetermined.

2009: Amador Gold Corp. (File 20000003861)
HLEM Survey – Haultain Township

Larder Geophysics Ltd. conducted a HLEM survey over 3.4875 line-km of the Capitol Mine Grid. Conductive HLEM axes were observed in the survey area. Northern portion of these contributions were likely due to cultural features.

2013-2015: Castle Silver Mines Inc (File 20000014046)
Geological Mapping, Geochemical Sampling, Stripping, Channel Sampling, Rehabilitation – Haultain and Nicol Township

Douglas Robinson of Doug Robinson Consulting conducted geological data compilation, geochemical analyses, stripping, channel sampling and grid rehabilitation on the Castle Silver Property. Additional line cutting, geophysical surveys and geological surveys were recommended for the survey area.

2016: Battery Mineral Resources Limited (File 20000015781)
Airborne Magnetometer and Airborne Radiometric Surveys – Donovan, Barber, Browning, Charters, Corkill, Donovan, Dufferin, Ermatinger, Hart, Haultain, James, Leckie, Leonard, Moncrieff, Nicol, North Williams, Ray, Speight, Unwin, Van Nostrand, Willet Townships

Precision GeoSurveys conducted airborne magnetometer and radiometric surveys over 12,024 line-km of land for the Cobalt Project. Geophysical maps were generated with data obtained, but no solid interpretation was made. Additional

Property/Tailings Sampling History

Initial work on the property commenced in 1908 upon the discovery and evaluation of a silver-cobalt vein. Averill et al (2012) state the tailings were produced by two mines along the shores of Percy Lake, the Millerett mine at the north end which operated from 1910 to 1912, and the Miller Lake O'Brian mine at the south end from 1910 to 1939, and again

by United Siscoe Mines Limited from 1947 to 1972. In the early 1980s, it was recognized that the tailings contained silver grades that were potentially recoverable. Subsequently, a number of resource estimates and economic evaluations of the tailings were conducted (Table 3) for silver, but most data did not include other elements or metals.

In 1981, after ownership of the Siscoe claims was acquired by Sandy K Mines Ltd. (Sandy K), a detailed, non-compliant estimate of the proven, probable and possible resource of the tailings was made by Watts, Griffis and McQuat (WGM) (Kilborn Limited, 1987). Samples consisted of 545 hand augured holes totalling 1570 m and 26 drive pipe holes totaling 191m (Averill et al, 2012).

In 1986, Canadian Lencourt Mines Ltd. (Lencourt) optioned the tailings from Sandy K and commissioned Kilborn Engineering Ltd. (Kilborn) to examine the feasibility of reprocessing the tailings (Averill et al, 2012). A series of 152 holes totalling ~910 m was drilled using sonic method before Lencourt dropped their option on the property (Averill et al, 2012). A resource estimate of silver in the tailings was created by Kilborn using 723 holes (Kilborn, 1987).

In 2000 Sandy K drilled 32 Vibracorer holes and 6 auger holes in the tailings near the old Millerett mill totaling 326 m and 211 samples (Averill et al, 2012).

In 2006 Temex Resources Corp. (Temex) acquired the tailings from Sandy K Metals Finance Corp and, in 2011, they contracted Geovector Management Inc to calculate a new NI 43-101 compliant silver resource estimate (Campbell et al., 2011).

In 2006 to 2008 a baseline study was conducted by Knight Piesold Ltd across Temex holdings in Gowganda, including the tailings. Work included surface and groundwater studies, terrestrial and aquatic plant and animal life documentation, archaeology, and tailings and waste rock sampling. Knight Piesold also concluded that the waste rock and tailings “are potentially non-acid generating”.

In 2012 Temex contracted ODM to conduct a rotasonic drill program consisting of 32 holes totaling 261.5 m and 222 samples (Averill et al, 2012). The objective of the program was to determine whether silver recovery from the +0.15 fraction of the tailings by gravity means was feasible.

In 2013, MNDM personnel reviewed the Knight Piesold report and concluded that arsenic levels discharged from the tailings into LeHeup Lake, Miller Creek and a wetlands area, in many cases, exceeded MISA and MMER guidelines.

In 2018, BMR commissioned Joe Ferron of HydroProc Consultants (HydroProc) to compare the current environmental tailings drilling results to all the previous tailings evaluations and comment on the reliability of the procedures/ methods and data. Since one of

the metals assayed by the multi- element package was cobalt, Ferron was also asked to comment on the potential economics of cobalt in the tailings.

A summary of results and work performed can be found below in Table 3.

Year		Work	Results
1981	WGM	545 auger holes for 1,570 metres and 26 drive pipe holes for 191 metres within the tailings	
1986	WGM	152 sonic drill holes for 910 metres	1.827 million tons grading 1.43 opt silver
2000	Sandy K Mines	32 holes sonic drill program for 326 metres, focusing on core area	Average grade for the dry tailings was about 2.0 oz/ton (62.6 g/tonne) silver.
		Overburden Drilling Management commissioned to perform test work	The coarse fraction of the tailings has higher silver content than fine fraction; silver in tailings occurs as coarse liberated grains; coarse free silver underrepresented in small sample size
2000	Lakefield Research	Gravity and metallurgical test work (with Process Research Associates)	Achieved silver recoveries of 77% - 86% by separating and grinding the +100 mesh material prior to gravity recovery.
2006	Temex	Sampling and initial metallurgical test work	Pre-oxidation of the bulk tailings material using a halide oxidant followed by leaching via sodium thio-sulfate can achieve silver recoveries in excess of 80%.
2011	Temex	GeoVector Management commissioned to complete a NI 43-101 Resource Estimate on the tailings	Historical tonnage / grade estimate of about 1,940,000 tonnes at 47.5 g/t silver for about 2,960,000 contained ounces of silver, at a cut-off grade of 10 g /t silver. This estimate could not be verified by the authors of this report. Refer to Error! Reference source not found.
2012	Temex	Overburden Drilling Management commissioned to test if >50% of the silver remaining in the coarse fraction could be extracted by gravity. Drilling of 32 holes for 261.5 m.	Estimated historical average grade of for the North Pile and South Pond tailings is 60.9 g/t silver. This estimate could not be verified by the authors of this report. Not assayed for cobalt.

Table 3: Historical Gowganda Tailings – Silver Recovery Program



Figure 5: Aerial view looking North of the Gowganda tailings taken in 2018.



Figure 6: Aerial view looking South of the Gowganda tailings taken in 2018.

3 DATA COLLECTION

3.1 TARGET OF INTEREST

The objective of the drilling on the Gowganda tailings was to determine baseline geo-chemical values to assist in the development of a long-term site rehabilitation plan. The Gowganda tailings site was used by two mines from 1910-1939, and 1947-1972 (Figures 5 & 6). Reported tailings totals are ~1'940'000 metric tonnes (Averill et al, 2012). The tailings consist of coarse sand to silt and variably fully saturated to dry. An estimated 793 historic augured, rotasonic and Vibracorer holes have been drilled into the Gowganda tailings since the 1980's. All historic holes, excepting those of Knight Piesold, were only analysed for Silver content.

3.2 DRILLING

Hole planning of the drill campaign was based on the tailings thickness map created by ODM in 2012 (Figure 7) which was used by BMR to derive an ideal 50m grid spacing across the area of known tailings. A tighter 25 m spacing was drilled in the thicker elevated sections of the tailings, proximal to the historic Millerett mill (Figure 6). Water saturated areas not safely accessible by the Boart Longyear rotasonic drill in the southern most tailings near the historic O'Brian mine were not able to be tested. In total 103 holes were completed for a total of 772.83 metres (Figure 8, Table 4).

Seven augured water monitoring well holes were drilled by Forage Orbit Garant Ltd. of Val-d'Or, Quebec under supervision of SEI (Table 5, Figure 9). Progress reports provided by SEI can be found in appendix 7, drill text logs can be found in appendix 2. Well monitoring data collected from SEI has not been released to BMR.

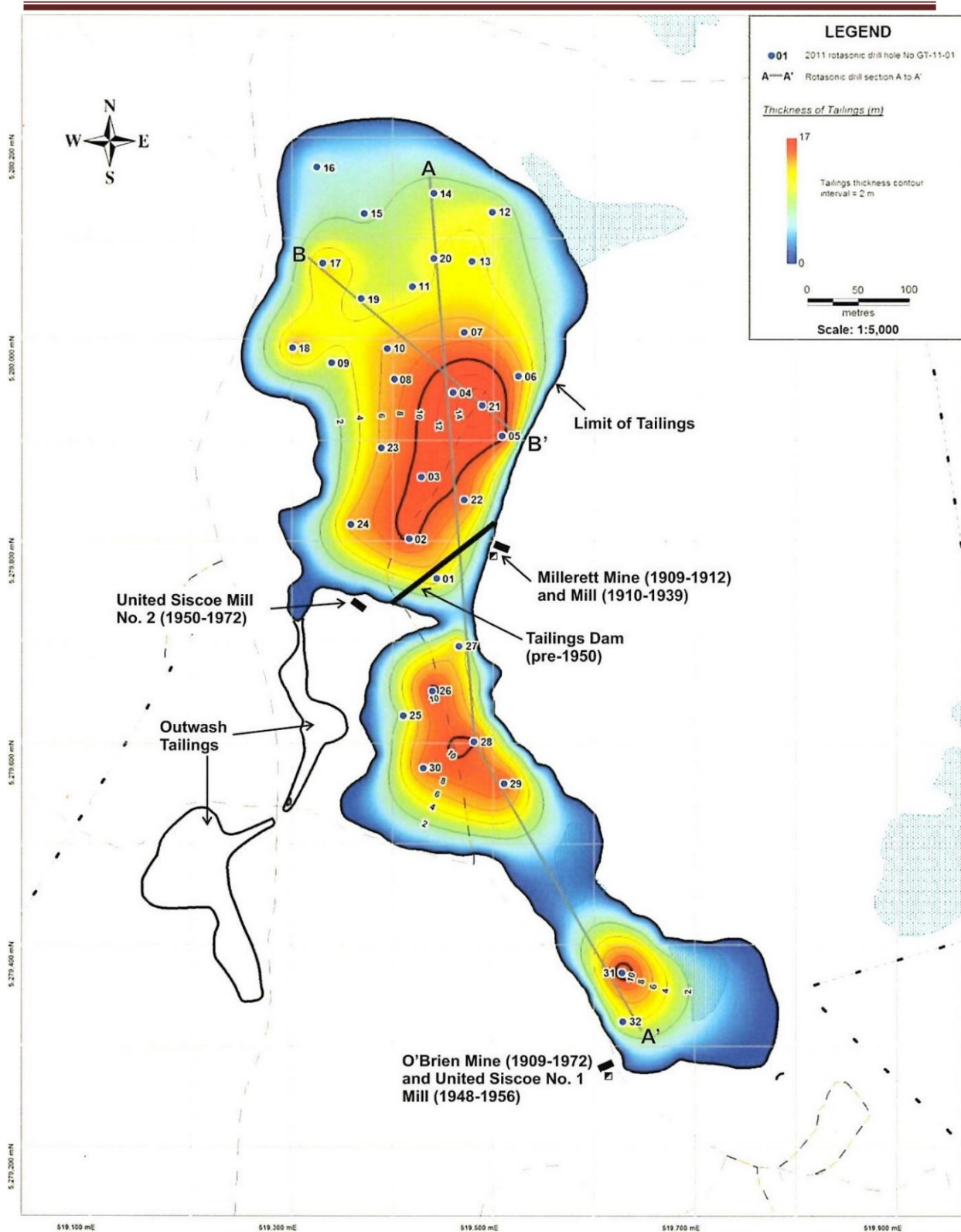


Figure 7: Location of Temex drill holes showing tailings thickness in metres (Averill et al, 2012).

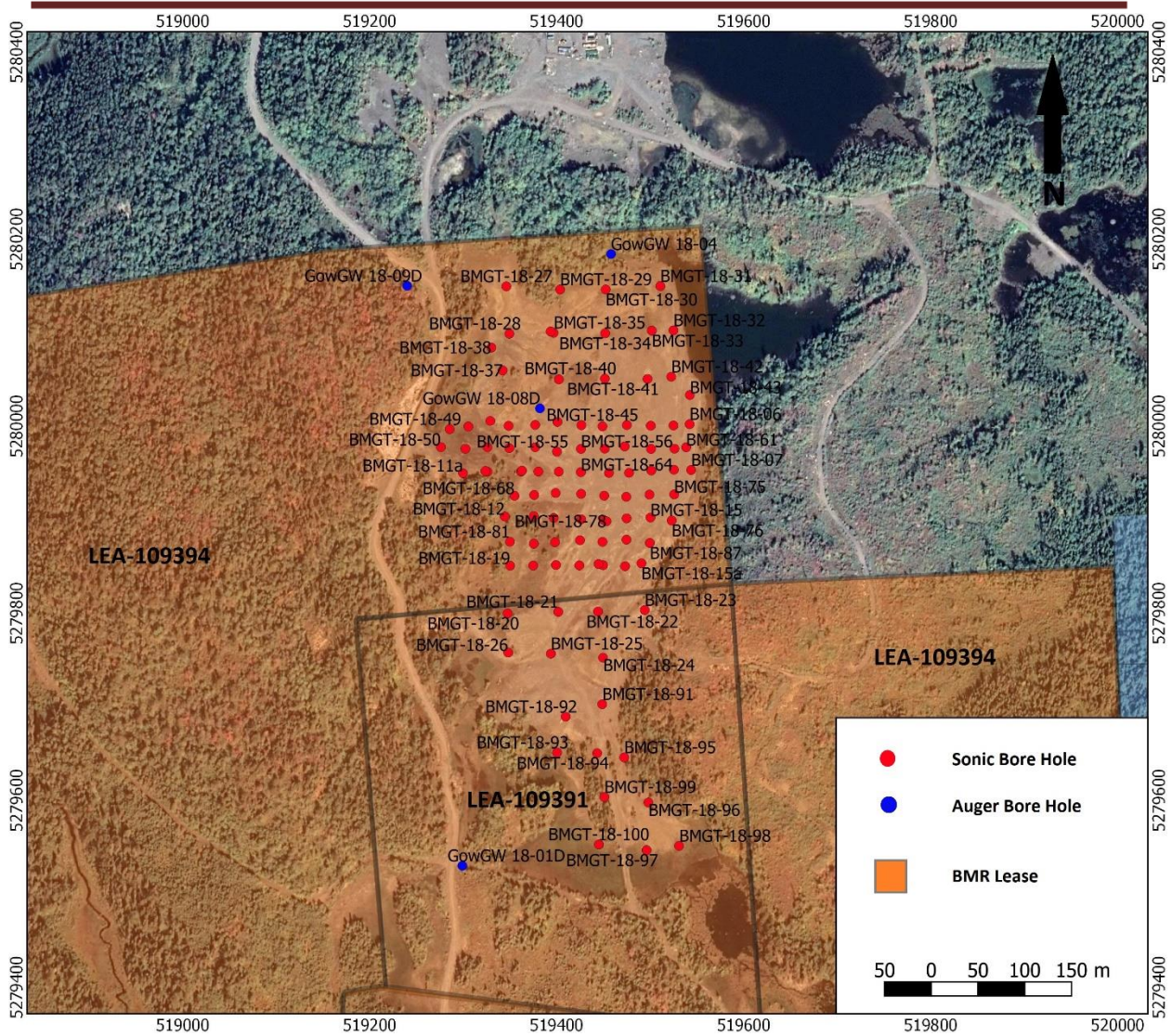


Figure 8: 2018 BMR Rotasonic Drill Hole Locations

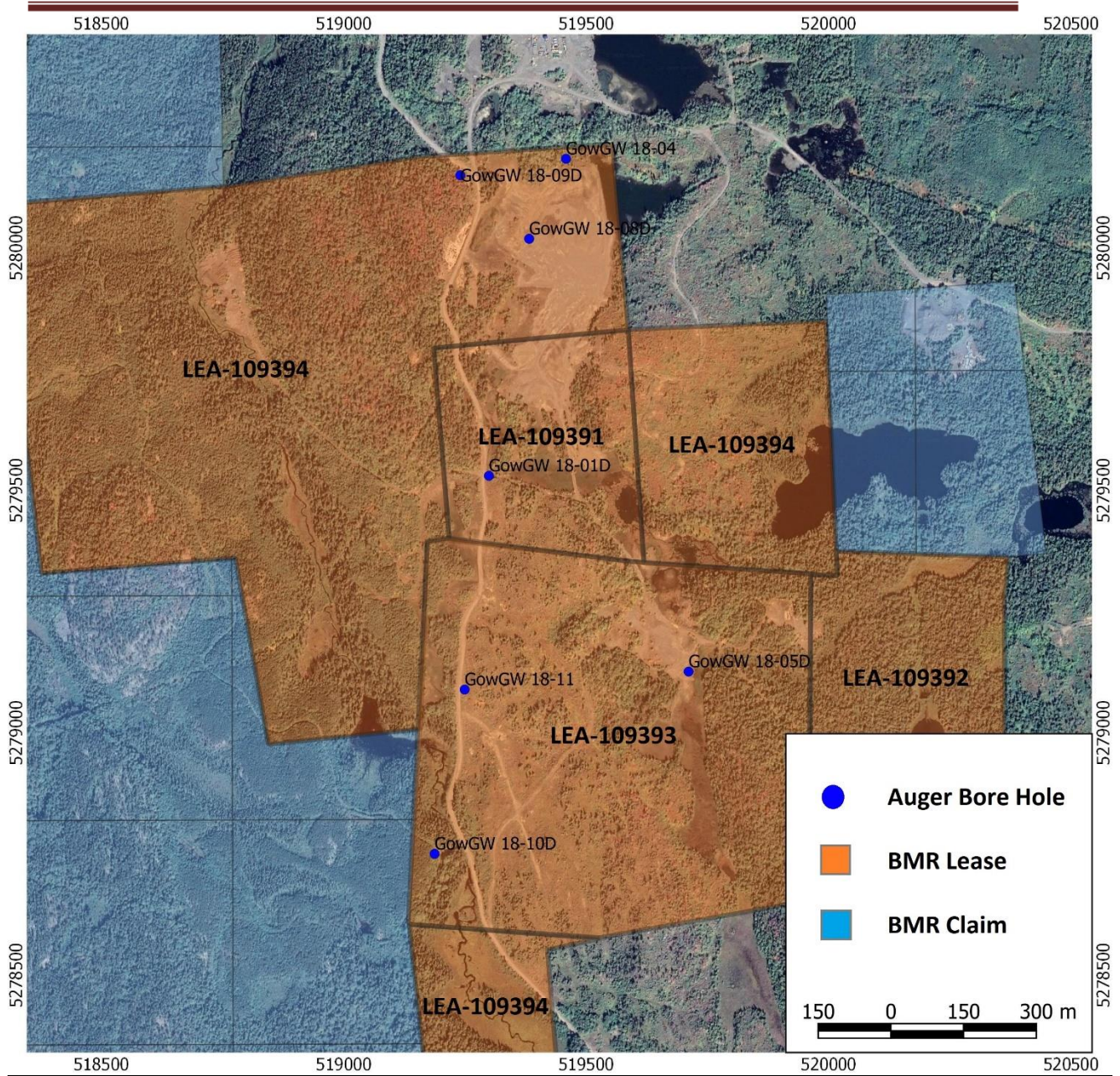


Figure 9: 2018 SEI Augured Water Well Drill Hole Locations

Hole ID	Easting (UTM NAD83 Z17N)	Northing (UTM NAD83 Z17N)	Elevation (m)	Azimuth	Dip	Depth (m)	Tailings Thickness (m)	Samples Collected	Samples Assayed
BMGT-18-01	519305.5	5279999.6	390.81	0.0	-90.0	6.00	4.65	5	6
BMGT-18-02	519348.4	5280000.3	393.05	0.0	-90.0	3.00	3.00	2	2
BMGT-18-03	519400.8	5280004.5	394.88	0.0	-90.0	8.00	6.80	6	7
BMGT-18-04	519448.9	5279999.8	397.19	0.0	-90.0	5.60	5.60	6	8
BMGT-18-05	519500.5	5280000.4	398.35	0.0	-90.0	6.00	5.80	6	7
BMGT-18-06	519542.0	5280002.1	396.92	0.0	-90.0	3.00	2.80	3	3
BMGT-18-07	519543.7	5279953.1	400.05	0.0	-90.0	8.20	8.20	8	10
BMGT-18-08	519501.1	5279952.5	400.95	0.0	-90.0	13.90	13.90	12	14
BMGT-18-09	519455.8	5279950.0	399.93	0.0	-90.0	14.10	12.00	11	14
BMGT-18-10	519402.1	5279951.3	396.86	0.0	-90.0	6.15	6.15	6	7
BMGT-18-11	519361.7	5279951.4	394.94	0.0	-90.0	4.06	4.00	4	4
BMGT-18-11a	519299.7	5279949.7	391.72	0.0	-90.0	3.00	3.00	2	
BMGT-18-12	519344.4	5279903.4	394.28	0.0	-90.0	1.90	1.90	2	2
BMGT-18-13	519396.7	5279901.9	396.90	0.0	-90.0	2.34	2.00	2	3
BMGT-18-14	519449.9	5279899.8	399.48	0.0	-90.0	7.50	7.20	7	7
BMGT-18-15	519500.2	5279902.3	401.37	0.0	-90.0	12.90	12.60	13	16
BMGT-18-15a	519490.5	5279853.3	396.90	0.0	-90.0	6.00	6.00	6	
BMGT-18-16	519449.6	5279851.3	397.63	0.0	-90.0	13.65	13.65	14	17
BMGT-18-17	519444.6	5279852.6	397.44	0.0	-90.0	10.00	9.00	9	11
BMGT-18-18	519399.1	5279851.5	395.94	0.0	-90.0	12.00	11.10	11	12
BMGT-18-19	519350.1	5279850.7	393.87	0.0	-90.0	12.00	11.65	12	14
BMGT-18-20	519347.4	5279799.8	393.87	0.0	-90.0	9.00	8.70	8	9
BMGT-18-21	519401.6	5279801.4	394.84	0.0	-90.0	2.20	2.10	2	2
BMGT-18-22	519444.1	5279801.7	394.11	0.0	-90.0	9.00	8.80	9	12
BMGT-18-23	519494.1	5279803.3	394.90	0.0	-90.0	9.37	9.00	9	11
BMGT-18-24	519449.5	5279752.4	392.10	0.0	-90.0	1.70	1.70	2	2
BMGT-18-25	519393.7	5279756.7	393.45	0.0	-90.0	3.95	3.90	4	4
BMGT-18-26	519348.0	5279757.9	393.61	0.0	-90.0	7.50	5.00	5	6
BMGT-18-27	519346.0	5280149.4	390.39	0.0	-90.0	1.50	1.50	1	1
BMGT-18-28	519349.3	5280098.9	390.61	0.0	-90.0	7.50	7.45	7	9
BMGT-18-29	519403.5	5280146.1	391.24	0.0	-90.0	3.00	1.90	2	2
BMGT-18-30	519452.3	5280146.1	391.52	0.0	-90.0	4.50	4.00	4	5
BMGT-18-31	519510.7	5280149.7	392.01	0.0	-90.0	1.50	0.80	1	1
BMGT-18-32	519524.7	5280102.4	393.42	0.0	-90.0	4.50	3.80	4	4
BMGT-18-33	519501.6	5280102.1	393.11	0.0	-90.0	4.50	3.45	2	2

BMGT-18-34	519451.7	5280099.2	393.21	0.0	-90.0	6.20	5.00	2	4
BMGT-18-35	519396.6	5280099.9	392.10	0.0	-90.0	6.00	5.60	5	5
BMGT-18-36	519393.4	5280101.2	391.99	0.0	-90.0	6.80	5.90	6	7
BMGT-18-37	519342.1	5280059.6	391.02	0.0	-90.0	3.10	3.00	2	2
BMGT-18-38	519330.0	5280084.0	390.61	0.0	-90.0	3.15	3.00	2	2
BMGT-18-39	519402.2	5280050.0	393.73	0.0	-90.0	2.20	2.10	2	4
BMGT-18-40	519451.4	5280050.9	394.89	0.0	-90.0	6.00	5.90	6	6
BMGT-18-41	519497.1	5280050.5	395.75	0.0	-90.0	7.50	6.80	7	8
BMGT-18-42	519522.4	5280052.9	395.02	0.0	-90.0	6.00	5.90	6	8
BMGT-18-43	519542.3	5280033.3	394.89	0.0	-90.0	7.64	7.00	7	8
BMGT-18-44	519524.8	5280000.7	397.77	0.0	-90.0	9.00	8.00	8	10
BMGT-18-45	519474.9	5280001.2	398.23	0.0	-90.0	8.40	6.80	6	6
BMGT-18-46	519426.3	5280001.1	396.74	0.0	-90.0	5.25	4.80	5	0
BMGT-18-47	519376.9	5280001.3	394.24	0.0	-90.0	7.00	6.90	7	0
BMGT-18-48	519328.9	5280005.6	392.06	0.0	-90.0	7.04	6.80	7	0
BMGT-18-49	519285.4	5279996.8	390.15	0.0	-90.0	8.00	6.70	7	0
BMGT-18-50	519276.0	5279977.6	390.41	0.0	-90.0	1.50	1.50	1	0
BMGT-18-51	519302.3	5279975.8	391.28	0.0	-90.0	6.00	5.20	4	0
BMGT-18-52	519325.8	5279977.5	392.76	0.0	-90.0	4.50	3.75	4	0
BMGT-18-53	519349.3	5279976.5	393.88	0.0	-90.0	4.95	4.00	4	0
BMGT-18-54	519376.9	5279977.5	394.75	0.0	-90.0	3.00	2.50	2	0
BMGT-18-55	519400.2	5279972.7	396.17	0.0	-90.0	6.00	5.00	5	0
BMGT-18-56	519425.9	5279975.7	396.95	0.0	-90.0	5.40	5.30	4	0
BMGT-18-57	519451.3	5279976.0	398.30	0.0	-90.0	6.00	6.00	6	0
BMGT-18-58	519472.6	5279978.3	399.12	0.0	-90.0	3.50	3.50	3	0
BMGT-18-59	519500.8	5279975.6	399.66	0.0	-90.0	6.00	5.90	5	0
BMGT-18-60	519525.9	5279975.9	398.99	0.0	-90.0	6.65	6.60	7	0
BMGT-18-61	519538.4	5279977.4	398.39	0.0	-90.0	7.50	7.50	7	0
BMGT-18-62	519525.2	5279953.4	400.67	0.0	-90.0	6.90	6.70	7	0
BMGT-18-63	519477.3	5279950.1	400.96	0.0	-90.0	4.70	4.70	3	0
BMGT-18-64	519425.8	5279950.8	399.34	0.0	-90.0	11.35	11.30	11	0
BMGT-18-65	519380.3	5279951.4	396.46	0.0	-90.0	15.00	13.60	14	0
BMGT-18-66	519325.9	5279951.2	393.34	0.0	-90.0	9.90	9.80	10	0
BMGT-18-67	519323.7	5279952.0	393.23	0.0	-90.0	6.00	6.00	5	0
BMGT-18-68	519354.8	5279925.5	395.29	0.0	-90.0	3.36	3.36	3	0
BMGT-18-69	519375.8	5279926.4	396.21	0.0	-90.0	4.14	3.00	3	0
BMGT-18-70	519398.7	5279928.5	397.18	0.0	-90.0	4.10	3.80	4	0
BMGT-18-71	519426.0	5279927.6	398.80	0.0	-90.0	7.50	7.20	7	0
BMGT-18-72	519450.7	5279925.6	400.00	0.0	-90.0	6.64	6.54	7	0
BMGT-18-73	519474.3	5279924.4	401.30	0.0	-90.0	8.44	8.44	8	0

BMGT-18-74	519499.1	5279926.8	401.62	0.0	-90.0	12.75	12.70	13	0
BMGT-18-75	519525.5	5279927.0	401.46	0.0	-90.0	18.42	17.50	14	0
BMGT-18-76	519522.9	5279899.1	400.19	0.0	-90.0	21.00	18.80	16	0
BMGT-18-77	519474.7	5279901.4	401.06	0.0	-90.0	15.70	15.00	14	0
BMGT-18-78	519453.1	5279898.3	399.58	0.0	-90.0	10.10	9.90	10	0
BMGT-18-79	519426.0	5279900.4	398.54	0.0	-90.0	15.00	14.40	14	0
BMGT-18-80	519375.3	5279903.9	395.47	0.0	-90.0	9.59	9.20	10	0
BMGT-18-81	519349.9	5279876.4	393.99	0.0	-90.0	4.50	4.50	4	0
BMGT-18-82	519375.4	5279874.4	395.32	0.0	-90.0	2.33	2.20	2	0
BMGT-18-83	519398.0	5279876.0	396.63	0.0	-90.0	3.63	3.50	4	0
BMGT-18-84	519424.8	5279878.0	397.34	0.0	-90.0	4.72	4.72	5	0
BMGT-18-85	519448.9	5279876.3	398.36	0.0	-90.0	9.23	9.23	9	0
BMGT-18-86	519474.5	5279878.6	399.98	0.0	-90.0	13.90	12.00	12	0
BMGT-18-87	519499.5	5279875.1	398.35	0.0	-90.0	12.32	11.95	12	0
BMGT-18-88	519473.0	5279850.2	397.01	0.0	-90.0	11.30	11.30	11	0
BMGT-18-89	519424.1	5279851.1	396.14	0.0	-90.0	10.50	10.20	10	0
BMGT-18-90	519374.8	5279850.9	394.90	0.0	-90.0	15.00	13.00	12	0
BMGT-18-91	519448.6	5279702.7	390.99	0.0	-90.0	4.87	4.87	5	0
BMGT-18-92	519409.5	5279689.3	390.05	0.0	-90.0	9.92	9.75	10	13
BMGT-18-93	519400.3	5279651.0	389.07	0.0	-90.0	5.16	4.50	4	4
BMGT-18-94	519443.2	5279650.3	390.18	0.0	-90.0	1.75	1.50	1	1
BMGT-18-95	519472.1	5279645.8	390.07	0.0	-90.0	12.00	12.00	12	15
BMGT-18-96	519498.0	5279597.6	388.60	0.0	-90.0	12.00	11.70	10	11
BMGT-18-97	519496.1	5279546.6	386.87	0.0	-90.0	12.00	10.00	9	11
BMGT-18-98	519530.8	5279551.2	386.73	0.0	-90.0	12.00	11.70	11	12
BMGT-18-99	519450.9	5279603.4	389.73	0.0	-90.0	9.00	8.30	6	8
BMGT-18-100	519445.0	5279552.7	387.26	0.0	-90.0	13.96	11.60	12	13
BMGT-18-101	519362.8	5279952.4	394.95	0.0	-90.0	12.85	12.00	12	15

Table 4: Data on rotasonic drill holes drilled by BMR in 2018.

Hole ID	Easting (UTM NAD83 Z17N)	Northing (UTM NAD83 Z17N)	Elevation (m)	Azimuth	Dip	Depth (m)	Overburden Thickness (m)	Samples Collected	Samples Assayed
GowGW 18-01D	519299.0	5279530.0	~400m	0.0	-90.0	20.04	3.18	Unknown	Unknown
GowGW 18-04	519458.0	5280184.0	~400m	0.0	-90.0	16.02	1.20	Unknown	Unknown
GowGW 18-05D	519711.0	5279126.0	~400m	0.0	-90.0	10.00	4.26	Unknown	Unknown
GowGW 18-08D	519382.0	5280019.0	~400m	0.0	-90.0	34.63	7.82	Unknown	Unknown
GowGW 18-09D	519240.0	5280150.0	~400m	0.0	-90.0	15.86	2.10	Unknown	Unknown
GowGW 18-10D	519187.0	5278750.0	~400m	0.0	-90.0	13.74	5.10	Unknown	Unknown
GowGW 18-11	519249.0	5279089.0	~400m	0.0	-90.0	14.99	1.00	Unknown	Unknown

Table 5: Data on augured water well drill holes drilled by SEI in 2018.

A total of 346 samples with an average weight of 14.2 kilograms were collected during the 2018 drilling program and submitted to ODM to prepare for geochemical analysis. A total of 529 tailings and 105 QAQC assay samples were submitted for analysis.

Sonic drill tailings samples were collected with an initial 10-foot, 4-inch diameter core barrel, with continuous runs until natural sediments or organics were encountered, or resistance became too high indicating bedrock was reached. When the 10-foot core barrels were retrieved, core samples were vibrated into two 5-foot length and 5-inch diameter bags. The bag was then measured by a CXS geologist before cutting into the bag and removing 1 m samples and transferring the sample to an individually labeled standard plastic sample bag. The CXS geologist would then measure the weight of the sample to determine if it surpassed 20 kg, allowing for 10 kg sample splits. If the sample was too light, additional tailings were measured out from the core and added to the sample. Samples were then sealed with zip-ties and placed into a plastic bucket with other sealed tailings samples. Buckets containing tailing samples were sealed with lids and security tape on site. Tailing samples were then transported to CXS headquarters in Larder Lake before being shipped to ODM in Ottawa for sample preparation, and then to ALS in Sudbury for analysis.

At ALS samples were dried in special drying ovens, then crushed to -2 millimeters. and A riffle split of 250 grams was then pulverized to 85%, achieving a size of <75 microns using a low chrome steel, ring-puck pulverizing vessels. These prepared samples were then shipped to the ALS Laboratory in Vancouver, British Columbia for analysis by the following methods in addition to 48 element ICP trace element data:

ME-MS61: A high precision, multi-acid digest including Hydrofluoric, Nitric, Perchloric and Hydrochloric acids. Analyzed by ICP (inductively coupled plasma) mass spectrometry that produced results for 48 elements.

ME-OG62: Aqua-Regia digest. Analyzed by ICP- AES (Atomic Emission Spectrometry) or sometimes called optical emission spectrometry (ICP-OES) for

high levels of cobalt, copper, nickel, and silver.

Ag-GRA21: Silver by fire assay and gravimetric finish; 30-gram charge. Used when samples contain > 1500 ppm silver.

In August 2019, Pan American Silver (Formerly Tahoe Canada), the property vendor, located the rejects/pulps from the 2012 Temex Tailings program. BMR arranged for the samples to be collected, secured, and transported to the company's storage in Larder Lake.

In September 2019, 183 splits of these 2012 samples (5 kilograms each) were dispatched to ALS in Sudbury for sample preparation and multi-element analysis (ME-MS61, as above). Figure 7 displays the location of the holes on a depth contoured base map of the tailings.

3.3 RESULTS AND SUMMARY

In 2018, 103 rotasonic drills holes were drilled by BMR. Of these, 55 holes totaling 346 samples representing 355.5 m were sent to ODM for sample preparation (Appendix 6) before being sent to ALS for assay. The remaining holes comprised the 25m- spaced infill holes which were retained pending the results of the 50m spaced holes. Ultimately, they were never sent. All 32 Temex's 2012 rotasonic holes were re-sampled by CXS Geologists. Of these holes, 183 samples totalling 184.8m were directly sent for assay from CSX to ALS. Combined, a total of 87 holes including 529 samples totalling 536.3m were sent to ALS for the same 4-acid digestion analysis.

3.4 ENVIRONMENTAL QUALITY STANDARDS

Data collected through the tailings sampling campaign were compared against "Sediment Quality Guidelines for the Protection of Aquatic Life" and "Soil Quality Guidelines for the Protection of Environmental and Human Health" provided by the Canadian Council of Ministers of the Environment online at <http://st-ts.ccme.ca/en/index.html>.

Tables 6 and 8 show the weighted average of element contaminants of the 2018 BMR samples and the Temex re-sampling, respectively, compared to Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health. Similarly, Tables 7 and 9 show the weighted average of metal contaminants compared to Canadian Sediment Quality Guidelines for the Protection of Aquatic Life. Where tailings samples surpass thresholds, the values are highlighted in red.

ODM conducted two-stage gravity concentrations for Ag analysis from 20 samples collected over two drill holes, BMGT-18-09 and 15. These concentrates were then sent by ODM to ALS for geochemical analysis. An ODM report on the details and ALS results be found in Appendix 6.

Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health					2018 BMR Samples Weighted Average
Chemical Element	Agricultural; concentration (ppm dry weight)	Residential/parkland; Concentration (ppm dry weight)	Commercial; Concentration (ppm dry weight)	Industrial; Concentration (ppm dry weight)	Gowganda Tailings; Concentration (ppm dry weight)
Antimony	20	20	40	40	14
Arsenic	12	12	12	12	714
Barium	750	500	2000	2000	169
Beryllium	4	4	8	8	1
Cadmium	1.4	10	22	22	0
Chromium	64	64	87	87	190
Cobalt	40	50	300	300	169
Copper	63	63	91	91	84
Lead	70	140	260	600	97
Mercury	6.6	6.6	24	50	No data
Molybdenum	5	10	40	40	1
Nickel	45	45	89	89	143
Selenium	1	1	2.9	2.9	0
Silver	20	20	40	40	52
Sulphur	500	No Data	No Data	No Data	228
Thallium	1	1	1	1	0
Tin	5	50	300	300	1
Uranium	23	23	33	300	1
Vanadium	130	130	130	130	191
Zinc	250	250	410	410	107

Table 6: Canadian Soil Quality Guidelines and 2018 BMR tailing samples weighted average data with thresholds surpassed highlighted in red.

Canadian Sediment Quality Guidelines for the Protection of Aquatic Life					2018 BMR Samples Weighted Average
Inorganic Metals Name	Freshwater; Concentration (ppb dry weight) ISQG	Freshwater; Concentration (ppb dry weight) PEL	Marine; Concentration (ppb dry weight) ISQG	Marine; Concentration (ppb dry weight) PEL	Gowganda Tailings; Concentration (ppb dry weight)
Arsenic	5900	17 000	7240	41 600	714252
Cadmium	600	3500	700	4200	153
Chromium	37 300	90 000	52 300	160 000	189724
Copper	35 700	197 000	18 700	108 000	84297
Lead	35 000	91 300	30 200	112 000	96962
Mercury	170	486	130	700	No Data
Uranium	No data	No data	No data	No data	577
Zinc	123 000	315 000	124 000	271 000	106687

Table 7: Canadian Sediment Quality Guidelines and 2018 BMR tailings weighted average data with thresholds highlighted in red.

Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health					2012 Temex Samples Weighted Average
Chemical Element	Agricultural; concentration (ppm dry weight)	Residential/parkland; Concentration (ppm dry weight)	Commercial; Concentration (ppm dry weight)	Industrial; Concentration (ppm dry weight)	Gowganda Tailings; Concentration (ppm dry weight)
Antimony	20	20	40	40	14
Arsenic	12	12	12	12	715
Barium	750	500	2000	2000	169
Beryllium	4	4	8	8	1
Cadmium	1.4	10	22	22	0
Chromium	64	64	87	87	185
Cobalt	40	50	300	300	159
Copper	63	63	91	91	83
Lead	70	140	260	600	95
Mercury	6.6	6.6	24	50	No data
Molybdenum	5	10	40	40	1
Nickel	45	45	89	89	138
Selenium	1	1	2.9	2.9	0
Silver	20	20	40	40	53
Sulphur	500	No Data	No Data	No Data	244
Thallium	1	1	1	1	0
Tin	5	50	300	300	1
Uranium	23	23	33	300	1
Vanadium	130	130	130	130	187
Zinc	250	250	410	410	107

Table 8: Canadian Soil Quality Guidelines and 2012 Temex tailing samples weighted average data with thresholds surpassed highlighted in red.

Canadian Sediment Quality Guidelines for the Protection of Aquatic Life					2012 Temex Samples Weighted Average
Inorganic Metals Name	Freshwater; Concentration (ppb dry weight) ISQG	Freshwater; Concentration (ppb dry weight) PEL	Marine; Concentration (ppb dry weight) ISQG	Marine; Concentration (ppb dry weight) PEL	Gowganda Tailings; Concentration (ppb dry weight)
Arsenic	5900	17 000	7240	41 600	715163
Cadmium	600	3500	700	4200	158
Chromium	37 300	90 000	52 300	160 000	184675
Copper	35 700	197 000	18 700	108 000	83140
Lead	35 000	91 300	30 200	112 000	94807
Mercury	170	486	130	700	No Data
Uranium	No data	No data	No data	No data	564
Zinc	123 000	315 000	124 000	271 000	106630

Table 9: Canadian Sediment Quality Guidelines and 2012 Temex tailings weighted average data with thresholds highlighted in red.

The 2018 drilling and sampling, and the 2019 re-sampling of the TEMEX samples, provided significant background geochemical information on the tailings to the environmental baseline database.

4 REHABILITATION

Story Environmental Inc. (SEI) of Haileybury, Ontario was originally contracted by BMR to conduct environmental studies of several BMR properties including the Gowganda project. SEI initiated surface and groundwater, hydrology, air quality, aquatics and terrestrial studies, including the drilling of 7 water well monitoring holes. To date, BMR has not been provided with any environmental reports or sampling data collected by SEI aside from drill hole logs and monthly reports.

The following rehabilitation updates and photos (Figures 10, 11 &12.) were provided to BMR from Story Environmental Inc. (2018). The full updates can be found in Appendix 7.

September 2018:

- Reconnaissance of existing openings was conducted on Gowganda property
- SEI is waiting for new BMR logo and sign off on Hazard Signage before signs are prepared and installed for Gowganda property

October 2018:

- Reconnaissance of known and unknown features with CXS
- SEI ordered Hazard Signage for Gowganda property

November 2018:

- One open shaft was excavated and dewatered (down 5 metres) to obtain dimensions and internal shape. Temporary fencing installed around opening.
- Notification signs (9 strategic locations) installed on the Property to inform users that mine hazards are present, and, in some cases, they are on private property.
- Former Mill (Millerett) and Concentrator (Siscoe) reduced heights; covered areas with waste rock and contoured; Removed and consolidated debris (wood, metal and garbage); metal to recycling; wood debris burned; and garbage to landfill.
- Investigated and assessed locations of 7 undocumented mine hazards.
- Exposed 6 concrete caps to determine foundation (bedrock / overburden) and determine depth of collar.
- Contacted geotechnical engineer to perform a dam safety inspection of tailings dams in accordance with new provincial requirements.
- Resolved Issues in AMIS Database.
- Temporary fencing installed around Open cut that is showing subsidence.

December 2018:

- Shaft 87691: Temporary fencing and signage installed around opening
- Notification signs (hazard/private property): some signs have been taken down/are missing (of the 9 locations: 1 confirmed missing & 2 could not be located). KMZ file of sign locations attached (in email).
- Report for ENDM re. the discrepancies in the AMIS database is ongoing
- Update Report for ENDM re. rehab activities undertaken on property is ongoing



Figure 10: Demolition and rehabilitation of the Millerett mill foundations (SEI, 2018)



Figure 11: Temporary fencing installed around shaft in Gowganda (SEI, 2018)



Figure 12: Property/Danger Sign: facing west where vehicles first enter Battery's (Millerett) property from intersection (groundwater wells marked with snow fence in center of photograph) (SEI, 2018)

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6 QUALIFICATIONS


CERTIFICATE OF QUALIFICATION AND CONSENT

I, Frank Rainer Ploeger of the town of Virginiatown, Province of Ontario, do hereby certify:

- 1) That I am a Consulting Geologist and reside at 21 Waite Avenue, Virginiatown, Ontario, P0K 1X0.
- 2) That I graduated from Queen's University at Kingston, Ontario with a Bachelor of Applied Science degree in 1973; and, that I completed 2 years of an MSc program at McMaster University in Hamilton, Ontario (1980- 1982).
- 3) That I am a **member in good standing of the Association of Geoscientists of Ontario (#479), the Association of Professional Engineers and Geoscientists of Saskatchewan (#10852, non- practicing), the Geological Association of Canada, the Prospectors and Developers Association, and the Northern Prospectors Association.** I have received a temporary permit (#2153) to practice in Quebec from the Ordre des geologues du Quebec pending acceptance by the Office quebequois de la langue francaise (OQLF).
- 4) That I have practiced my profession as a mineral exploration and mine geologist for a period of about 45 years.
- 5) This document is based on information various public documents and my personal observations during several visits to the property.

Although the information supplied to me is believed to be accurate and all reasonable care has been taken in the completion of this report, I hereby disclaim any and all liability arising out of its use and circulation. While I stand behind my interpretations, I cannot guarantee the accuracy of the source information and the use of this report or any part thereof shall be at the user's sole risk.

- 6) I have no interest, either directly or indirectly, in the subject property or client company.
- 7) *My written permission is required for the release of any summary or excerpt.*



Frank R. Ploeger



Virginiatown, Ontario.
January 20, 2019.

CERTIFICATE OF QUALIFICATION AND CONSENT

I, Peter James Doyle of the city of Richmond Hill, Province of Ontario, do hereby certify:

- 1) That I am an Exploration Geologist and reside at 79 Naughton Drive, Richmond Hill Ontario, L4C8B2.
- 2) That I graduated from Laurentian University at Sudbury, Ontario with an Honours Bachelor of Science degree in 1980.
- 3) That I am a **Fellow in good standing of the Australian Institute of Mining & Metallurgy (AUSIMM # 208850) as well as a member in good standing of Geological Association of Canada (GAC F0146); Canadian Institute of Mining & Metallurgy (CIMM # 91602); Prospectors & Developers Association of Canada (PDAC # 707); Society for Geology Applied to Mineral Deposits (SGA# 1333-08) and Society of Economic Geologists (SEG # 216720).**
- 4) That I have practiced my profession in various roles as a Mineral Exploration Geologist, Exploration Manager and Vice President of Exploration for a period of about 39 years principally within Canada & Australia as well as globally in United States of America, Mexico, Indonesia, China, Mongolia, Brazil, Argentina and Guyana.
- 5) This document is based on information various public documents and my personal observations during visits to the property during the exploration program.
Although the information supplied to me is believed to be accurate and all reasonable care has been taken in the completion of this report, I hereby disclaim any and all liability arising out of its use and circulation. While I stand behind my interpretations, I cannot guarantee the accuracy of the source information and the use of this report or any part thereof shall be at the user's sole risk.
- 6) I am currently employed full time as Exploration Manager – Canada for Battery Mineral Resources Limited and was directly involved in the planning and execution of the exploration program documented in this report.
- 7) *My written permission is required for the release of any summary or excerpt.*

Peter J. Doyle

Richmond Hill, Ontario, January 20, 2019

7 INSTRUMENT SPECIFICATIONS

Trimble GeoXT¹



STANDARD FEATURES

System

- Windows Mobile 6.1(Classic edition)
- VGA display (480 x 640), sunlight-readable color touch screen
- Integrated Bluetooth 1.2 wireless technology
- Integrated 802.11b/g wireless LAN
- Ergonomic cable-free handheld
- Rugged and water-resistant design
- All-day internally rechargeable Li-ion battery
- Marvell 520 MHz XScale processor
- 128 MB RAM
- 1 GB non-volatile Flash data storage
- Sealed SD/SDHC card slot
- Integrated speaker and microphone

GPS

- Integrated high-performance GPS/SBAS1 receiver and L1 antenna

¹ Trimble instrument information available from: <https://seafloorsystems.com/support/brochures/trimble-docs/43-trimble-geoxt-handheld-gps-receiver/file>

-
- Submeter real-time or 50 cm postprocessed accuracy
 - RTCM and CMR real-time correction support
 - TSIP and NMEA protocol support
 - EVEREST multipath rejection technology

Standard Software

- GPS Controller for control of integrated GPS and in-field mission planning
- GPS Connector for connecting integrated GPS to external ports
- Microsoft Office Mobile
- Transcriber (handwriting recognition)

Standard Accessories

- Support module
- AC Power supply with International adapter kit
- USB data cable
- Stylus(x2)
- Screen protectors (2-pack)
- Quick Start Guide
- Getting Started CD
- Hand strap
- Pouch

OPTIONAL FEATURES

Optional Software

- Terra Sync software
- Trimble GPS correct extension for ESRI ArcPad software
- GPS Pathfinder Tools Software Development Kit (SDK)
- GPS Pathfinder Office software
- Trimble GPSAnalyst™ extension for ESRI ArcGIS Desktop software
- TrimPix™ Pro system

Optional Accessories

- TDL 3G cellular modem accessory
- Power/serial clip (9-pin RS-232 serial connector and power input)
- Vehicle power adaptor
- Null modem cable
- Backpack kit
- Hard carry case
- Tempest™ antenna
- External patch antenna
- Pole-mountable ground plane
- Baseball cap with patch antenna pocket
- 2 meter range pole

-
- Range pole bracket
 - Geo Beaconreceiver
 - Anti-glare screen protectors (2-pack)

TECHNICAL SPECIFICATIONS

Physical

Size 21.5 cm x 9.9 cm x 7.7 cm (8.5 in x 3.9 in x 3.0 in)
Weight 0.80 kg (1.76 lbs) with battery
Processor 520 MHz Marvell PXA-270 XScale processor
Memory 128 MB RAM and 1 GB internal Flash storage
Battery Internal 7500 mAh lithium-ion
27.8 Watt-hours, rechargeable in unit

Power usage

Low (no GPS or backlight) 1.8 Watts
Normal (with GPS and backlight³) 2.6 Watts
High (with GPS, backlight³, Bluetooth, and wireless LAN)⁴ 3.7 Watts

Environmental

Operating temperature -20 °C to +60 °C (-4 °F to 140 °F)
Storage temperature -30 °C to +70 °C (-22 °F to 158 °F)
Casing Dust-proof and resistant to heavy wind-driven rain per IP 65 standard
Slip-resistant grip, shock and vibration resistant
Drop 1.2 m (4 ft) MIL-STD-810F, Method 516.5, Procedure IV

Input/Output

Expansion SD card slot (SD or SDHC storage cards)
Display 8.9 cm (3.5 in) VGA (480 x 640 pixel) TFT, 16-bit (65,536) colors
LED back light
Interface Touch screen, 10 hardware control keys, power status LED
Audio system events, warnings, and notifications
Soft Input Panel (SIP) virtual keyboard and handwriting recognition software
Audio Microphone and speaker, record and playback utilities
I/O USB 1.1 client via support module
Serial via optional 9-pin RS-232 power/serial clip adaptor
Radios⁵ Bluetooth 1.2, Wireless LAN 802.11b/g

GPS

Channels 14 (12 L1 code and carrier, 2 SBAS)
Integrated real-time SBAS¹ (dual-channel tracking)

Update rate	1 Hz
Time to first fix	30 seconds (typical)
Protocols	
Data output	TSIP, NMEA-0183 v3.0 (GGA, VTG, GLL, GSA, ZDA, GSV, RMC)
Real-time corrections	RTCM 2.x, RTCM 3.0, CMR, CMR+

Accuracy (HRMS)⁶ after differential correction

Code postprocessed	50 cm
Carrier postprocessed ⁷	
With 10 minutes tracking satellites.....	20 cm
With 20 minutes tracking satellites.....	10 cm
With 45 minutes tracking satellites	1 cm
Real-time (SBAS ¹ or external correction source)	Submeter

- 1 SBAS (Satellite Based Augmentation System). Includes WAAS available in North America only, EGNOS available in Europe only, and MSAS available in Japan only.
- 2 Power/serial clip also required.
- 3 With backlight at default setting (50% brightness).
- 4 Power draw will vary depending on radio usage.
- 5 Bluetooth and wireless LAN type approvals are country specific. GeoExplorer 2008 series handhelds have Bluetooth and wireless LAN approval in the U.S. and in most European countries. For further information please consult your local reseller.
- 6 Horizontal Root Mean Squared accuracy, 1-sigma (68%). Except in conditions where most GPS signals are affected by trees, or buildings, or other objects. Except when using VRS corrections, accuracy varies with proximity to base station by +1 ppm for code postprocessing and real-time.
- 7 Postprocessed carrier accuracy varies with proximity to base station by +2 ppm. 45 minute carrier capability applies only to the GPS Pathfinder Office software and is limited to 10km from the base station.

8 APPENDIX

Data on accompanying disc includes:

- 1.) Drill Hole Metadata
- 2.) Drill Hole Text and Graphic Logs
- 3.) Assay Data
- 4.) Certificates of Analyses
- 5.) Plan Maps
- 6.) ODM Ltd. Sample Processing Report and Results
- 7.) SEI Progress Reports

Hole ID	Easting (UTM NAD83 Z17N)	Northing (UTM NAD83 Z17N)	Elevation (m)	Azimuth	Dip	Depth (m)	Tailings Thickness (m)	Size (inch)	Mining Lease Number	Drilling Start Date	Drilling End Date	Drilling Contractor	Storage	Casing	Cap	Abandoned	Artesian Conditions	Date Logged	Log Author
BMGT-18-01	519305.5	5279999.6	390.8	0	-90	6.00	4.65	4"	LEA-109394	2018-09-11	2018-09-11	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-11	D. Hozjan
BMGT-18-02	519348.4	5280000.3	393.0	0	-90	3.00	3.00	4"	LEA-109394	2018-09-11	2018-09-11	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-11	D. Hozjan
BMGT-18-03	519400.8	5280004.5	394.9	0	-90	8.00	6.80	4"	LEA-109394	2018-09-11	2018-09-11	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-11	D. Hozjan
BMGT-18-04	519448.9	5279999.8	397.2	0	-90	5.60	5.60	4"	LEA-109394	2018-09-11	2018-09-11	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-11	D. Hozjan
BMGT-18-05	519500.5	5280000.4	398.3	0	-90	6.00	5.80	4"	LEA-109394	2018-09-11	2018-09-11	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-11	D. Hozjan
BMGT-18-06	519542.0	5280002.1	396.9	0	-90	3.00	2.80	4"	LEA-109394	2018-09-11	2018-09-11	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-11	D. Hozjan
BMGT-18-07	519543.7	5279953.1	400.0	0	-90	8.20	8.20	4"	LEA-109394	2018-09-11	2018-09-11	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-11	D. Hozjan
BMGT-18-08	519501.1	5279952.5	400.9	0	-90	13.90	13.90	4"	LEA-109394	2018-09-11	2018-09-11	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-11	D. Hozjan
BMGT-18-09	519455.8	5279950.0	399.9	0	-90	14.10	12.00	4"	LEA-109394	2018-09-12	2018-09-12	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-12	D. Hozjan
BMGT-18-10	519402.1	5279951.3	396.9	0	-90	6.15	6.15	4"	LEA-109394	2018-09-12	2018-09-12	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-12	D. Hozjan
BMGT-18-11	519361.7	5279951.4	394.9	0	-90	4.06	4.00	4"	LEA-109394	2018-09-12	2018-09-12	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-12	J. Edwards
BMGT-18-11a	519299.7	5279949.7	391.7	0	-90	3.00	3.00	4"	LEA-109394	2018-09-16	2018-09-16	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-16	J. Edwards
BMGT-18-12	519344.4	5279903.4	394.3	0	-90	1.90	1.90	4"	LEA-109394	2018-09-12	2018-09-12	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-12	J. Edwards
BMGT-18-13	519396.7	5279901.9	396.9	0	-90	2.34	2.00	4"	LEA-109394	2018-09-12	2018-09-12	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-12	J. Edwards
BMGT-18-14	519449.9	5279899.8	399.5	0	-90	7.50	7.20	4"	LEA-109394	2018-09-12	2018-09-12	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-12	J. Edwards
BMGT-18-15	519500.2	5279902.3	401.4	0	-90	12.90	12.60	4"	LEA-109394	2018-09-12	2018-09-12	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-12	J. Edwards

BMGT-18-15a	519490.5	5279853.3	396.9	0	-90	6.00	6.00	4"	LEA-109394	2018-09-16	2018-09-16	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-16	J. Edwards
BMGT-18-16	519449.6	5279851.3	397.6	0	-90	13.65	13.65	4"	LEA-109394	2018-09-12	2018-09-12	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-12	J. Edwards
BMGT-18-17	519444.6	5279852.6	397.4	0	-90	10.00	9.00	4"	LEA-109394	2018-09-12	2018-09-12	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-12	J. Edwards
BMGT-18-18	519399.1	5279851.5	395.9	0	-90	12.00	11.10	4"	LEA-109394	2018-09-13	2018-09-13	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-13	J. Edwards
BMGT-18-19	519350.1	5279850.7	393.9	0	-90	12.00	11.65	4"	LEA-109394	2018-09-13	2018-09-13	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-13	J. Edwards
BMGT-18-20	519347.4	5279799.8	393.9	0	-90	9.00	8.70	4"	LEA-109391	2018-09-13	2018-09-13	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-13	J. Edwards
BMGT-18-21	519401.6	5279801.4	394.8	0	-90	2.20	2.10	4"	LEA-109391	2018-09-13	2018-09-13	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-13	J. Edwards
BMGT-18-22	519444.1	5279801.7	394.1	0	-90	9.00	8.80	4"	LEA-109391	2018-09-13	2018-09-13	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-13	J. Edwards
BMGT-18-23	519494.1	5279803.3	394.9	0	-90	9.37	9.00	4"	LEA-109391	2018-09-13	2018-09-13	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-13	J. Edwards
BMGT-18-24	519449.5	5279752.4	392.1	0	-90	1.70	1.70	4"	LEA-109391	2018-09-13	2018-09-13	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-13	J. Edwards
BMGT-18-25	519393.7	5279756.7	393.4	0	-90	3.95	3.90	4"	LEA-109391	2018-09-13	2018-09-13	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-13	J. Edwards
BMGT-18-26	519348.0	5279757.9	393.6	0	-90	7.50	5.00	4"	LEA-109391	2018-09-13	2018-09-13	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-13	J. Edwards
BMGT-18-27	519346.0	5280149.4	390.4	0	-90	1.50	1.50	4"	LEA-109394	2018-09-13	2018-09-13	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-13	J. Edwards
BMGT-18-28	519349.3	5280098.9	390.6	0	-90	7.50	7.45	4"	LEA-109394	2018-09-13	2018-09-13	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-13	J. Edwards
BMGT-18-29	519403.5	5280146.1	391.2	0	-90	3.00	1.90	4"	LEA-109394	2018-09-13	2018-09-13	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-13	J. Edwards
BMGT-18-30	519452.3	5280146.1	391.5	0	-90	4.50	4.00	4"	LEA-109394	2018-09-13	2018-09-13	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-13	J. Edwards

BMGT-18-31	519510.7	5280149.7	392.0	0	-90	1.50	0.80	4"	LEA-109394	2018-09-14	2018-09-14	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-14	J. Edwards
BMGT-18-32	519524.7	5280102.4	393.4	0	-90	4.50	3.80	4"	LEA-109394	2018-09-14	2018-09-14	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-14	J. Edwards
BMGT-18-33	519501.6	5280102.1	393.1	0	-90	4.50	3.45	4"	LEA-109394	2018-09-14	2018-09-14	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-14	J. Edwards
BMGT-18-34	519451.7	5280099.2	393.2	0	-90	6.20	5.00	4"	LEA-109394	2018-09-14	2018-09-14	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-14	J. Edwards
BMGT-18-35	519396.6	5280099.9	392.1	0	-90	6.00	5.60	4"	LEA-109394	2018-09-14	2018-09-14	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-14	J. Edwards
BMGT-18-36	519393.4	5280101.2	392.0	0	-90	6.80	5.90	4"	LEA-109394	2018-09-14	2018-09-14	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-14	J. Edwards
BMGT-18-37	519342.1	5280059.6	391.0	0	-90	3.10	3.00	4"	LEA-109394	2018-09-14	2018-09-14	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-14	J. Edwards
BMGT-18-38	519330.0	5280084.0	390.6	0	-90	3.15	3.00	4"	LEA-109394	2018-09-14	2018-09-14	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-14	J. Edwards
BMGT-18-39	519402.2	5280050.0	393.7	0	-90	2.20	2.10	4"	LEA-109394	2018-09-14	2018-09-14	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-14	J. Edwards
BMGT-18-40	519451.4	5280050.9	394.9	0	-90	6.00	5.90	4"	LEA-109394	2018-09-14	2018-09-14	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-14	J. Edwards
BMGT-18-41	519497.1	5280050.5	395.8	0	-90	7.50	6.80	4"	LEA-109394	2018-09-14	2018-09-14	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-14	J. Edwards
BMGT-18-42	519522.4	5280052.9	395.0	0	-90	6.00	5.90	4"	LEA-109394	2018-09-14	2018-09-14	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-14	J. Edwards
BMGT-18-43	519542.3	5280033.3	394.9	0	-90	7.64	7.00	4"	LEA-109394	2018-09-14	2018-09-14	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-14	J. Edwards
BMGT-18-44	519524.8	5280000.7	397.8	0	-90	9.00	8.00	4"	LEA-109394	2018-09-15	2018-09-15	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-15	J. Edwards
BMGT-18-45	519474.9	5280001.2	398.2	0	-90	8.40	6.80	4"	LEA-109394	2018-09-15	2018-09-15	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-15	J. Edwards
BMGT-18-46	519426.3	5280001.1	396.7	0	-90	5.25	4.80	4"	LEA-109394	2018-09-15	2018-09-15	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-15	J. Edwards

BMGT-18-47	519376.9	5280001.3	394.2	0	-90	7.00	6.90	4"	LEA-109394	2018-09-15	2018-09-15	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-15	J. Edwards
BMGT-18-48	519328.9	5280005.6	392.1	0	-90	7.04	6.80	4"	LEA-109394	2018-09-15	2018-09-15	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-15	J. Edwards
BMGT-18-49	519285.4	5279996.8	390.2	0	-90	8.00	6.70	4"	LEA-109394	2018-09-15	2018-09-15	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-15	J. Edwards
BMGT-18-50	519276.0	5279977.6	390.4	0	-90	1.50	1.50	4"	LEA-109394	2018-09-15	2018-09-15	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-15	J. Edwards
BMGT-18-51	519302.3	5279975.8	391.3	0	-90	6.00	5.20	4"	LEA-109394	2018-09-15	2018-09-15	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-15	J. Edwards
BMGT-18-52	519325.8	5279977.5	392.8	0	-90	4.50	3.75	4"	LEA-109394	2018-09-15	2018-09-15	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-15	J. Edwards
BMGT-18-53	519349.3	5279976.5	393.9	0	-90	4.95	4.00	4"	LEA-109394	2018-09-15	2018-09-15	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-15	J. Edwards
BMGT-18-54	519376.9	5279977.5	394.8	0	-90	3.00	2.50	4"	LEA-109394	2018-09-15	2018-09-15	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-15	J. Edwards
BMGT-18-55	519400.2	5279972.7	396.2	0	-90	6.00	5.00	4"	LEA-109394	2018-09-15	2018-09-15	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-15	J. Edwards
BMGT-18-56	519425.9	5279975.7	396.9	0	-90	5.40	5.30	4"	LEA-109394	2018-09-15	2018-09-15	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-15	J. Edwards
BMGT-18-57	519451.3	5279976.0	398.3	0	-90	6.00	6.00	4"	LEA-109394	2018-09-15	2018-09-15	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-15	J. Edwards
BMGT-18-58	519472.6	5279978.3	399.1	0	-90	3.50	3.50	4"	LEA-109394	2018-09-15	2018-09-15	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-15	J. Edwards
BMGT-18-59	519500.8	5279975.6	399.7	0	-90	6.00	5.90	4"	LEA-109394	2018-09-15	2018-09-15	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-15	J. Edwards
BMGT-18-60	519525.9	5279975.9	399.0	0	-90	6.65	6.60	4"	LEA-109394	2018-09-15	2018-09-15	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-15	J. Edwards
BMGT-18-61	519538.4	5279977.4	398.4	0	-90	7.50	7.50	4"	LEA-109394	2018-09-16	2018-09-16	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-16	J. Edwards
BMGT-18-62	519525.2	5279953.4	400.7	0	-90	6.90	6.70	4"	LEA-109394	2018-09-16	2018-09-16	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-16	J. Edwards

BMGT-18-63	519477.3	5279950.1	401.0	0	-90	4.70	4.70	4"	LEA-109394	2018-09-16	2018-09-16	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-16	J. Edwards
BMGT-18-64	519425.8	5279950.8	399.3	0	-90	11.35	11.30	4"	LEA-109394	2018-09-16	2018-09-16	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-16	J. Edwards
BMGT-18-65	519380.3	5279951.4	396.5	0	-90	15.00	13.60	4"	LEA-109394	2018-09-16	2018-09-16	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-16	J. Edwards
BMGT-18-66	519325.9	5279951.2	393.3	0	-90	9.90	9.80	4"	LEA-109394	2018-09-16	2018-09-16	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-16	J. Edwards
BMGT-18-67	519323.7	5279952.0	393.2	0	-90	6.00	6.00	4"	LEA-109394	2018-09-16	2018-09-16	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-16	J. Edwards
BMGT-18-68	519354.8	5279925.5	395.3	0	-90	3.36	3.36	4"	LEA-109394	2018-09-16	2018-09-16	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-16	J. Edwards
BMGT-18-69	519375.8	5279926.4	396.2	0	-90	4.14	3.00	4"	LEA-109394	2018-09-16	2018-09-16	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-16	J. Edwards
BMGT-18-70	519388.7	5279928.5	397.2	0	-90	4.10	3.80	4"	LEA-109394	2018-09-16	2018-09-16	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-16	J. Edwards
BMGT-18-71	519426.0	5279927.6	398.8	0	-90	7.50	7.20	4"	LEA-109394	2018-09-16	2018-09-16	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-16	J. Edwards
BMGT-18-72	519450.7	5279925.6	400.0	0	-90	6.64	6.54	4"	LEA-109394	2018-09-16	2018-09-16	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-16	J. Edwards
BMGT-18-73	519474.3	5279924.4	401.3	0	-90	8.44	8.44	4"	LEA-109394	2018-09-16	2018-09-16	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-16	J. Edwards
BMGT-18-74	519499.1	5279926.8	401.6	0	-90	12.75	12.70	4"	LEA-109394	2018-09-17	2018-09-17	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-17	J. Edwards
BMGT-18-75	519525.5	5279927.0	401.5	0	-90	18.42	17.50	4"	LEA-109394	2018-09-17	2018-09-17	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-17	J. Edwards
BMGT-18-76	519522.9	5279899.1	400.2	0	-90	21.00	18.80	4"	LEA-109394	2018-09-17	2018-09-17	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-17	J. Edwards
BMGT-18-77	519474.7	5279901.4	401.1	0	-90	15.70	15.00	4"	LEA-109394	2018-09-17	2018-09-17	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-17	J. Edwards
BMGT-18-78	519453.1	5279898.3	399.6	0	-90	10.10	9.90	4"	LEA-109394	2018-09-17	2018-09-17	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-17	J. Edwards

BMGT-18-79	519426.0	5279900.4	398.5	0	-90	15.00	14.40	4"	LEA-109394	2018-09-17	2018-09-17	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-17	J. Edwards
BMGT-18-80	519375.3	5279903.9	395.5	0	-90	9.59	9.20	4"	LEA-109394	2018-09-17	2018-09-17	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-17	J. Edwards
BMGT-18-81	519349.9	5279876.4	394.0	0	-90	4.50	4.50	4"	LEA-109394	2018-09-17	2018-09-17	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-17	J. Edwards
BMGT-18-82	519375.4	5279874.4	395.3	0	-90	2.33	2.20	4"	LEA-109394	2018-09-17	2018-09-17	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-17	J. Edwards
BMGT-18-83	519398.0	5279876.0	396.6	0	-90	3.63	3.50	4"	LEA-109394	2018-09-18	2018-09-18	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-18	J. Edwards
BMGT-18-84	519424.8	5279878.0	397.3	0	-90	4.72	4.72	4"	LEA-109394	2018-09-18	2018-09-18	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-18	J. Edwards
BMGT-18-85	519448.9	5279876.3	398.4	0	-90	9.23	9.23	4"	LEA-109394	2018-09-18	2018-09-18	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-18	J. Edwards
BMGT-18-86	519474.5	5279878.6	400.0	0	-90	13.90	12.00	4"	LEA-109394	2018-09-18	2018-09-18	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-18	J. Edwards
BMGT-18-87	519499.5	5279875.1	398.3	0	-90	12.32	11.95	4"	LEA-109394	2018-09-18	2018-09-18	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-18	J. Edwards
BMGT-18-88	519473.0	5279850.2	397.0	0	-90	11.30	11.30	4"	LEA-109394	2018-09-18	2018-09-18	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-18	J. Edwards
BMGT-18-89	519424.1	5279851.1	396.1	0	-90	10.50	10.20	4"	LEA-109394	2018-09-18	2018-09-18	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-18	J. Edwards
BMGT-18-90	519374.8	5279850.9	394.9	0	-90	15.00	13.00	4"	LEA-109394	2018-09-18	2018-09-18	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-18	J. Edwards
BMGT-18-91	519448.6	5279702.7	391.0	0	-90	4.87	4.87	4"	LEA-109394	2018-09-18	2018-09-18	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-18	J. Edwards
BMGT-18-92	519409.5	5279889.3	390.0	0	-90	9.92	9.75	4"	LEA-109391	2018-09-18	2018-09-18	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-18	J. Edwards
BMGT-18-93	519400.3	5279851.0	389.1	0	-90	5.16	4.50	4"	LEA-109391	2018-09-18	2018-09-18	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-18	J. Edwards
BMGT-18-94	519443.2	5279850.3	390.2	0	-90	1.75	1.50	4"	LEA-109391	2018-09-18	2018-09-18	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-18	J. Edwards

BMGT-18-95	519472.1	5279645.8	390.1	0	-90	12.00	12.00	4"	LEA-109391	2018-09-19	2018-09-19	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-19	J. Edwards
BMGT-18-96	519498.0	5279997.6	388.6	0	-90	12.00	11.70	4"	LEA-109391	2018-09-19	2018-09-19	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-19	J. Edwards
BMGT-18-97	519496.1	5279546.6	386.9	0	-90	12.00	10.00	4"	LEA-109391	2018-09-19	2018-09-19	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-19	J. Edwards
BMGT-18-98	519530.8	5279551.2	386.7	0	-90	12.00	11.70	4"	LEA-109391	2018-09-19	2018-09-19	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-19	J. Edwards
BMGT-18-99	519450.9	5279603.4	389.7	0	-90	9.00	8.30	4"	LEA-109391	2018-09-19	2018-09-19	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-19	J. Edwards
BMGT-18-100	519445.0	5279552.7	387.3	0	-90	13.96	11.60	4"	LEA-109391	2018-09-19	2018-09-19	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-19	J. Edwards
BMGT-18-101	519382.8	5279952.4	395.0	0	-90	12.85	12.00	4"	LEA-109391	2018-09-19	2018-09-19	Boart Longyear	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	None	None	No	No	2018-09-19	J. Edwards
GowGW 18-01D	519299.0	5279530.0	Unknown	0	-90	20.04	3.18	2.5"	LEA-109391	2018-09	2018-09	Forage Orbit Garant	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	Yes	Yes	No	No	2018-10-24	J. Edwards
GowGW 18-04	519458.0	5280184.0	Unknown	0	-90	16.02	1.20	2.5"	LEA-109394	2018-09	2018-09	Forage Orbit Garant	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	Yes	Yes	No	No	2018-10-24	J. Edwards
GowGW 18-03D	519711.0	5279126.0	Unknown	0	-90	10.00	4.26	2.5"	LEA-109393	2018-09	2018-09	Forage Orbit Garant	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	Yes	Yes	No	No	2018-10-24	J. Edwards
GowGW 18-08D	519382.0	5280019.0	Unknown	0	-90	34.63	7.82	2.5"	LEA-109394	2018-09	2018-09	Forage Orbit Garant	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	Yes	Yes	No	No	2018-10-24	J. Edwards
GowGW 18-09D	519240.0	5280150.0	Unknown	0	-90	15.86	2.10	2.5"	LEA-109394	2018-09	2018-09	Forage Orbit Garant	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	Yes	Yes	No	No	2018-10-24	J. Edwards
GowGW 18-10D	519187.0	5278750.0	Unknown	0	-90	13.74	5.10	2.5"	LEA-109393	2018-09	2018-09	Forage Orbit Garant	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	Yes	Yes	No	No	2018-10-24	J. Edwards
GowGW 18-11	519249.0	5279089.0	Unknown	0	-90	14.99	1.00	2.5"	LEA-109393	2018-09	2018-09	Forage Orbit Garant	Canadian Exploration Services Ltd, 14579 Government Rd, Larder Lake, ON P0K 1L0, Canada	Yes	Yes	No	No	2018-10-24	J. Edwards



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 12 2018

HOLE NO. BMGT-18-11 DIAMETER 4" ELEVATION 395

SHIFT HOURS _____ to _____

LOCATION 0519363 mE ; 5279950 m N

GEOLOGIST J. Edwards DRILLER Emile

MOVE TO HOLE 9:45 - 10:00 Dr. 11 10:00 - 10:15

TOTAL HOURS _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1	1		Low even	1.5 1.5		[Dotted pattern]	01	Tailings 0-4.05
1							[Dotted pattern]	02	0-2m Grey fg sand, dry, wk compaction
2	2	2					[Dotted pattern]	03	2-4.05m Grey fg sand w/minor silt, wk compaction
3	3	3					[Dotted pattern]	04	
4				Had uneven			[Dotted pattern]	(1.05m)	
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

EOH = 4.05m

COMMENTS:

Hole was moved east of picket to avoid trees & remain in tailings.



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 12 2018

HOLE NO. BMGT-18- 12 DIAMETER 4" ELEVATION 395m

SHIFT HOURS _____ to _____

LOCATION 0519302 mE; 5270948 mN

GEOLOGIST J. Edwards DRILLER Emile

MOVE TO HOLE 9:55-10:15 Drill: 10:15-10:45

TOTAL HOURS _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			low even	1.5 1.5		[Graphic Log: 1m interval]	01	Tailings : 0-1.9m 0-0.05 Organics; Grass, roots 0.05-1.7 Dark Gray fine grained Sand, wet, wk compaction 1.7-1.9 Gray fine grained sand moist-wet, minor silt moderate compaction.
2	2			low to Hard Even	0.4 0.4		[Graphic Log: 0.9m interval]	02 (0.9m)	
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

EOH = 1.9m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 17 2018 HOLE NO. BMGT-18-13 DIAMETER 4" ELEVATION 395m
 SHIFT HOURS _____ LOCATION 0519342 mE ; 5279896 mN
 _____ to _____ GEOLOGIST J. Edwards DRILLER Emilia
 TOTAL HOURS _____ MOVE TO HOLE 10:45 - 11:00 Drill 11:00 - 11:30
 _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			low even	1.5 / 1.5		[Graphic Log: Dotted pattern]	01	Tailings 0.1 - 2m
2	2			low even, Hard Bumpy	0.8 / 0.8		[Graphic Log: Dotted pattern with vertical lines]	02	0-0.1 Organics; Grass, roots 0.1-1.2 Gray fine sand w/ silt w/ compaction.
3									2.0-2.2 Peate
4									2.2-2.34 Till
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

EOH = 2.34m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 17 2018

HOLE NO. BMGT-18-14 DIAMETER 4" ELEVATION 397m

SHIFT HOURS _____ to _____

LOCATION 0519398mE ; 5279900mN

GEOLOGIST J. Edwards DRILLER Emile

MOVE TO HOLE 13:00 - 13:30 Drill 13:30 - 14:20

TOTAL HOURS _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS Fuel pick up in Elk Lake

CONTRACT HOURS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1			Low even	1.5		[Symbol]	01	<p>Tailings 0-7.2m</p> <p>0-2m Grey fine grained sand, dry, weak compaction</p> <p>2-3.2m addition of silt and increased compaction to weak moderate</p> <p>3.2-5m Grey fine grained sand w/ weak silt, wet, weak compaction</p> <p>5-6.5m light grey sandy silt wet, weak compaction. lenses of compact silt.</p> <p>6.5-7.2m Light grey silt with minor sand, dry, compact.</p> <p>7.2-7.5m Fine grained sands with organics</p>
1					1.5		[Symbol]	02	
2	2						[Symbol]	03	
3							[Symbol]	04	
4	3						[Symbol]	05	
5							[Symbol]	06	
6	4						[Symbol]	07 (1.2m)	
7	5			low to mod even then Bumpy			[Symbol]		
8									
9									
10									
11									
12									
13									
14									
15									

EOH = 7.5m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 12 2018

HOLE NO. BMGT-18-15 DIAMETER 4" ELEVATION 399m

SHIFT HOURS _____ to _____

LOCATION 0519453 mE ; 5279899 mN

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS _____

MOVE TO HOLE 14:20 - 14:35 Drill: 14:35 - 15:25

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	11			low even			[Dotted pattern]	01	<p>Tailings 0-12.6m</p> <p>0-5.2m Dark grey fine grained sand dry, weak compaction.</p> <p>5.2-6m Gray fine grained sand w/ weak silt. moist-wet weak compaction</p> <p>6-10.5m Gray fine grained sand w/ weak silt, wet, weak compaction. Pockets of moderately compact silt with sand</p> <p>10.5-11.3m Light grey silt, wet, mod compaction.</p> <p>11.3-12m Gray fine grained sand with moderate silt, dry weak compaction</p> <p>12-12.6m Light grey silt, wet, mod compaction</p> <p>12.6-12.7m - Peat</p> <p>12.7-12.9m - T.11</p> <p>EOH = 12.9m (Bedrock)</p>
2	22						[Dotted pattern]	02	
3	33						[Dotted pattern]	03	
4							[Dotted pattern]	04	
5	44			low to mod even			[Dotted pattern]	05	
6							[Dotted pattern]	06	
7	55						[Dotted pattern]	07	
8							[Dotted pattern]	08	
9	66						[Dotted pattern]	09	
10							[Dotted pattern]	10	
11	77			low even			[Dotted pattern]	11	
12							[Dotted pattern]	12	
13	88			Mod low even			[Horizontal lines]	13	
	99			Mod even (low even)	0.9		[Horizontal lines]	13 (0.6m)	
					0.9		[Horizontal lines]		
14									
15									

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 11 2018

HOLE NO. BMGT-18-16 DIAMETER 4" ELEVATION 401

SHIFT HOURS _____ to _____

LOCATION 519502mE ; 5279900mN
GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS _____

MECHANICAL DOWN TIME _____

CONTRACT HOURS _____

DRILLING PROBLEMS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0				Low even	1.5 1.5			01	Tailings 0-13.65
1								02	
2								03	0-4.0m Dark Brown/gray fine grained sand, dry weak compaction
3								04	
4								05	4-7.5m Gray fine grained sand w/ minor silt, moist, mod compact
5								06	7.5-8.5m fully saturated w/ moderate silt
6								07	8.5-9.7m Gray fine grained sand, dry, weak compaction.
7								08	9.7-10.1m w/ mod silt
8								09	10.1-12m Gray fine grained silty sand, wet, weak compaction
9								10	
10								11	12-13.66m Gray fine grained sand w/ minor silt, wet, weak compaction.
11								12	
12								13	
13								14	
14				Mod even				(0.65m)	
15									

ECH = 13.65m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 17 2018

HOLE NO. BMGT-18- 17 DIAMETER 4" ELEVATION 401

SHIFT HOURS _____ to _____

LOCATION S1A492mE ; 5279854mN

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS _____

MOVE TO HOLE 16:35 - 16:50 Drill 16:50 - 17:15

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1		low even	1.5 1.5		[Graphic Log]	01	Tailings 0-9.0m
2	2	2					[Graphic Log]	02	0-1.5 0-3m Dark grey fine grained sand, dry, weak compaction
3	3	3					[Graphic Log]	03	
4							[Graphic Log]	04	3-3.7m Grey fine grained sand w/ minor silt, wet, weak compaction
5	4	4					[Graphic Log]	05	3.7-6m " weaker compaction
6							[Graphic Log]	06	
7	5	5			3/3		[Graphic Log]	07	6-9m Grey fine grained sand, wet, weak compaction. Lumpy compact pieces w/ higher silt content
8		6					[Graphic Log]	08	
9							[Graphic Log]	09	
10	6	7		mod Bumpy	1/1		[Graphic Log]		9-10 - Till
11									
12									
13									
14									
15									

EOLT = 10m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: ¹³ Sept 2018

HOLE NO. BMGT-18-18 DIAMETER 4" ELEVATION 397

SHIFT HOURS _____ to _____

LOCATION 0519446mE; 5279853mN

TOTAL HOURS _____

GEOLOGIST J. Edwards DRILLER Emile

CONTRACT HOURS _____

MOVE TO HOLE 7:30 - 8:15 Dr. 11 8:15 - 8:52

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			Low Even	1.5 / 1.5		[Dotted pattern]	01	Tailings 0 - 11.1m 0-4.15m Dark grey fine grained sand, dry, weakly compact 4.15-7.1m Dark grey fine grained sand w/ weak silt, fully saturated, weakly compact. 7.1-10.25m Grey fg sand w/ med-heavy silt, wet mod compact. 10.25-11.1m Grey fine grained sand w/ slw silt, wet, mod compact. 11.1-12m - Peat EOH = 12.0m
2	2						[Dotted pattern]	02	
3	3						[Dotted pattern]	03	
4	3						[Dotted pattern]	04	
5	4						[Dotted pattern]	05	
6	4						[Dotted pattern]	06	
7	5						[Dotted pattern]	07	
8	5						[Dotted pattern]	08	
9	6						[Dotted pattern]	09	
10	7						[Dotted pattern]	10	
11	8			mod even			[Dotted pattern]	11 (11)	
12							[Dotted pattern]		
13									
14									
15									

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 13 2018

HOLE NO. BMGT-18-19 DIAMETER 4" ELEVATION 397

SHIFT HOURS _____ to _____

LOCATION 0519439mE; 5279850mN

TOTAL HOURS _____

GEOLOGIST J. Edwards DRILLER Emile

CONTRACT HOURS _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	11			Low even	1.5 1.5		[Graphic Log]	01	Tailings 0-11.65m
2	22			↓	↓		[Graphic Log]	02	0-4.1m Dark grey fg sand, dry, weakly compact.
3	33						[Graphic Log]	03		4.1-7m Grey fg sand with silt, moderate wet, moderate compact
4	44						[Graphic Log]	04	7-10.2m Grey fg silty sand, wet, weak compaction. Lumps are moderate compact.
5	55						[Graphic Log]	05	
6	66						[Graphic Log]	06	
7	77						[Graphic Log]	07	10.2-11 Same as previous but with a slight decrease in saturation and increase in compaction
8	88						[Graphic Log]	08	11-11.65 Grey silt dominant w/ fg sand, wet, weak compaction.
9	99						[Graphic Log]	09	
10							[Graphic Log]	10	11.65-12.0m - Peat.
11						Low to mod even		[Graphic Log]		11
12								[Graphic Log]	12 (0.65)
13									
14									
15									

EOH = 12m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 13 2018

HOLE NO. BMGT-18-20 DIAMETER 4" ELEVATION 396

SHIFT HOURS _____ to _____

LOCATION 519397mE ; 5279849

TOTAL HOURS _____

GEOLOGIST J. Edwards DRILLER Emile

CONTRACT HOURS _____

MOVE TO HOLE 9:40 - 9:50 Drill: 9:50 - 10:15

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	11			Low even	1.5 / 1.5		[Graphic Log]	01 (1.5m)	<p>Tailings 0 - 8.7m</p> <p>0-3m Dark grey fg sand with minor silt, moist, weak compaction. Becomes wet @ 2.8m</p> <p>3-3.2m Grey fg sand, dry, wk compaction</p> <p>3.2-5.3m Grey fg sand w/wk silt, wet wk low compaction.</p> <p>5.3-6m Grey very fine grained sand w/mod silt, wet, mod compaction</p> <p>6-7.5m Grey silt w/ heavy fg sand, wet, wk compaction</p> <p>7.5-8.5m Grey fg sand w/wk silt, wet, weak compaction.</p> <p>8.5-8.7m light grey silt, wet, mod compaction</p> <p>8.7-9m Peat</p>
2	22						[Graphic Log]	02 (1.5m)	
3	33						[Graphic Log]	03	
4							[Graphic Log]	04	
5	44						[Graphic Log]	05	
6	55						[Graphic Log]	06	
7							[Graphic Log]	07	
8	66			low mod even			[Graphic Log]	08 (0.7m)	
9							[Graphic Log]		
10									
11									
12									
13									
14									
15									

EOH = 9.0m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 13 2018

HOLE NO. BMGT-18- 21 DIAMETER 4" ELEVATION 393

SHIFT HOURS _____ to _____

LOCATION 0519352mE ; 5279853mN

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS _____

MOVE TO HOLE 10:15-10:35 Drill: 10:35-10:50

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			Low even	1.5 / 1.3			01	0.1-2.1m = Tailings
2	2			↓	0.7 / 0.7			02 (1.1m) 2.1	0-0.1m Organics; grass/roots 0.1-1.1m Brown/gray fg sand w/ minor silt, mod. st, mod compaction 1.1-2.1m Grey fg sand w/ wk silt, wet, wk compaction
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

ECH = 2.2m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 13 2018

HOLE NO. BMGT-18-22 DIAMETER 4" ELEVATION 393

SHIFT HOURS _____ to _____

LOCATION 0519350 mE ; 5279804 mN

GEOLOGIST J. Edwards DRILLER Em. Le

TOTAL HOURS _____

MOVE TO HOLE 10:50 - 11:05 Drill 11:05 - 11:35

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1		Low even	1.5 1.5			01	Tailings 0-8.8m
2	2	2						02	0-1.2m Grey lg sand, dry, wk compaction 1.2-1.9m Grey lg sand, moist, wk silt wk compaction
3	3	3						03	1.9-3.0m Light grey silt w/mod lg sand, wet, low compaction.
4	4	4						04	3.0m-4.0m Same as previous but non compact.
5	4	4						05	4.0-4.5m Dark grey lg sand, wet, wk compaction
6	5	5						06	4.5-7.8 Same as previous but more wet, silt lease at 6.7-6.8m
7	5	5						07	7.8-7.9m Dark grey lg sand, moist, mod, compact.
8	6	6		Mod even				08	7.9-8.6m Grey lg sand, wet, wk compaction
9								09 (0.8m)	8.6-8.8m Light grey silt, moist, mod compaction
10									8.8-9m Peat
11									
12									
13									
14									
15									

EOH = 9.0m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 13 2018

HOLE NO. BMGT-18-23 DIAMETER 4" ELEVATION 395

SHIFT HOURS _____ to _____

LOCATION 0519404 m E ; 5279797 m N

GEOLOGIST J. Edwards DRILLER Emile

MOVE TO HOLE 11:35 - 11:45 Drill: 12:40 - 13:11

TOTAL HOURS _____

MECHANICAL DOWN TIME _____

CONTRACT HOURS _____

DRILLING PROBLEMS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			Low even	1.5 / 1.5		[Graphic Log]	01	Tailings 0-9.0m
2	2						[Graphic Log]	02	0-2.5m Dark grey fg sand, dry, wk compaction
3	3						[Graphic Log]	03	2.5-3m Dark grey to light grey downhole. wet
4	4						[Graphic Log]	04	Dark grey fg sand w/ wk silt, moist to wet, mod compaction.
5	4						[Graphic Log]	05	3-5.5m Grey fg sand, tr silt, wet, wk to low compaction
6	5						[Graphic Log]	06	
7	5						[Graphic Log]	07	5.5-6m Grey fg sand w/ wk silt, moist, mod compaction.
8	6						[Graphic Log]	08	6-7.3m Grey fg sand, wet, wk compaction.
9	6						[Graphic Log]	09	7.3-8.7 Grey fg sand, moist to wet, mod compaction.
10	7			Bony			[Graphic Log]		8.7-9 Grey fg sand w/ fragments of old timbers, wet, wk comp.
11									
12									
13									
14									
15									

EOH = 9.37m (bedrock)

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 13 2018

HOLE NO. BMGT-18-24 DIAMETER 4" ELEVATION 397

SHIFT HOURS _____ to _____

LOCATION G519443mE ; 5279800mN

GEOLOGIST J. Edwards DRILLER Emile

MOVE TO HOLE 13:10 - 13:30 Drill 13:30 - 13:40

TOTAL HOURS _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	11			low even	1.5 / 1.5		[Graphic Log: Dotted pattern]	01	Tailings 0 - 1.7m
2	22			↓	0.2 / 0.2		[Graphic Log: Dotted pattern]	02 (0.7m)	0 - 1.3m Dark grey fg sand, dry, weak compaction
3									1.3 - 1.7 Grey fg sand, moist to wet, mod compaction
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

EOH = 1.7m (Bedrock)

COMMENTS: Hole moved ~ 5m west to avoid tree + grassed area



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 13 2018 HOLE NO. BMGT-18- 25 DIAMETER 4" ELEVATION 400m
 SHIFT HOURS _____ to _____ LOCATION 0519442 mE ; 5279802 mN
 GEOLOGIST J. Edwards DRILLER Emile
 MOVE TO HOLE 13:40 - 14:00 Dr. 1: 14:00 - 14:20
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1			Low even	1.5			01	Tailings 0-3.9m
1					1.3			02	0-1.3m Dark grey fg sand, dry, wk compact
2	2							03	1.3-2m Dark grey fg sand, moist, mod compact
3								04	2-2.9m Dark grey fg sand w/ wk silt, wet, mod compact
4	3			low to mod uneven	0.95			(0.9a)	2.9-3m Grey silty sand, wet, non compact contains wood board fragments
5					0.95				3-3.2m Grey fg sand, dry, wk compact
6									3.2-3.9m Grey fg sand w/ wk-mod silt, wet, wk compact
7									3.9-3.95 Till
8									
9									
10									
11									
12									
13									
14									
15									

EOL = 3.95m (Bedrock)

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 13 2018 HOLE NO. BMGT-18- 26 DIAMETER 4" ELEVATION 395
 SHIFT HOURS _____ LOCATION 0519448mE ; 5279750mN
 _____ to _____ GEOLOGIST J. Edwards DRILLER Emile
 TOTAL HOURS _____ MOVE TO HOLE 14:20-14:40 Drill: 14:40-15:00
 _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0-1	1	1		Low even	1.5		[Graphic Log]	01	Tailings 0-4.7
1-2	2	2			1.5		[Graphic Log]	02	0-0.65m Dark grey fg sand, dry, wk compaction
2-3							[Graphic Log]	03	0.65-1.1m Grey silt w/ sand, moist, compact
3-4	3	3					[Graphic Log]	04	1.1-1.6m Grey fg sand, moist, weak compaction
4-5	4	4					[Graphic Log]	05	1.6-3.8m Grey fg sand, wet, wk compaction
5-6							No Recovery	(0.7m)	3.8-4.3m Grey silt w/ fg sand, moist-wet, mod low compact
6-7	5			mod Bumpy			[Graphic Log]		4.3-4.7m Same as previous but more compact
7-8							[Graphic Log]		4.7-6m No recovery "Scup"
8-9									6-6.9m Angular gravel, suspected mine waste w/ minor tailings silty sand mix
9-10									6.9-7.5m Peat
10-11									
11-12									
12-13									
13-14									
14-15									

EOH = 7.5m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 13 2018

HOLE NO. BMGT-18-27 DIAMETER 4" ELEVATION 394

SHIFT HOURS _____ to _____

LOCATION OS19392m E ; 5279757m N

TOTAL HOURS _____

GEOLOGIST J. Edwards DRILLER Emile

CONTRACT HOURS _____

MOVE TO HOLE 15:00 - 15:20 Drill 15:20 - 15:50

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1			Smooth then Hard Bumpy	1.5 1.5			01 (1.5m)	Tailings 0-1.5m 0-1m Dark grey lg sand, dry, wk compacted 1-1.5m Dark grey lg sand w/ minor gravel from muck piles, moist, wk compacted
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

EOH = 1.5m (Bedrock)

COMMENTS:

Moved hole ~ 5m west due to mine waste dump



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 13 2018

HOLE NO. BMGT-18-28 DIAMETER 4" ELEVATION 391

SHIFT HOURS _____ to _____

LOCATION 0519348mE ; 5279757mN

TOTAL HOURS _____

GEOLOGIST J. Edwards DRILLER Emile

CONTRACT HOURS _____

MOVE TO HOLE 15:50 - 16:05 Drill: 16:05 - 16:20

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			Smooth even	1.5 1.3			01	Tailings 0-7.45m
2	2							02	0-0.1m organics; grass/roots
3	3							03	0.1-3.65m Dark grey fine grained sand, dry, wk compaction
4	4							04	3.65-5.8m Dark grey fg sand w/ wk silt, wet, wk compaction
5	5							05	5.8-7.35m Dark grey fg sand w/ wk silt moist, wk compaction
6								06	7.35-7.45m Light grey silt/clay, moist, compact.
7				Hard uneven				07 (1.45)	7.45-7.5m Brown soil w/ tu-eyes + organic
8									
9									
10									
11									
12									
13									
14									
15									

EOH = 7.5m (Bedrock)

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 13 2018

HOLE NO. BMGT-18-29 DIAMETER 4" ELEVATION 391

SHIFT HOURS
_____ to _____

LOCATION 0519348mE; 5280148mN

GEOLOGIST J. Edwards DRILLER Emile

MOVE TO HOLE 16:20 - 17:00 Drill 17:00 - 17:15

TOTAL HOURS

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1		Smooth even	1 1.5		[Graphic Log]	01	Tailings 0 - 1.9m
2	2	2		↓	1.5 1.5		[Graphic Log]	02	0 - 0.1 Organics; Grass/roots
3							[Graphic Log]		0.1 - 1.9 Grey silt/clay, m.s.t., mod compaction
4									1.9 - 3.0 Deck Peat
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

EOH = 3.0m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 13 2018

HOLE NO. BMGT-18-30 DIAMETER 4" ELEVATION 393m

SHIFT HOURS _____ to _____

LOCATION 0519351m E; 5280100m N

GEOLOGIST J. Edwards DRILLER Em. Le

MOVE TO HOLE 17:15 - 17:20 Dr. II. 17:20 - 17:38

TOTAL HOURS _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0-1	1	1		Smooth even	1.5 1.5		[Dotted pattern]	01	0-4m Tailings
1-2	2	2					[Dotted pattern]	02	0-1.6m Grey lumpy fg sand w/ wk-mod silt, wet, mod compact
2-3	3	3					[Horizontal lines]	03	1.6-2m Grey fg sand w/ wk silt, wet weak compaction
3-4							[Horizontal lines]	04	2-3m light grey silt/clay, wet, wk compaction
4-5							[Horizontal lines]		3-4m Light grey silt, wet, wk-mod compaction
5-6									
6-7									
7-8									
8-9									
9-10									
10-11									
11-12									
12-13									
13-14									
14-15									

ECH = 4.5m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 14 2018

HOLE NO. BMGT-18-31 DIAMETER 4" ELEVATION 392

SHIFT HOURS _____ to _____

LOCATION 0519402 mE ; 5280147 mN

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS _____

MOVE TO HOLE 7:30-800 Drill 8:00-8:15

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1	1		Smooth even	1.5			01 (0.75m)	Tailings 0 - 0.8m
1				Hard Unnom	1.5				0 - 0.05m Organic; grass/roots
2									0.05 - 0.8m Light grey silt/clay, moist compact.
3									
4									0.8 - 1m Peat
5									1 - 1.5m T.11
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

EOH = 1.5m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 14 2018

HOLE NO. BMGT-18-32 DIAMETER 4" ELEVATION 394

SHIFT HOURS _____ to _____

LOCATION G519454 mE ; 5280145 mN

TOTAL HOURS _____

GEOLOGIST J. Edwards DRILLER Emile

CONTRACT HOURS _____

MOVE TO HOLE 8:15-8:20 Dr. 11 8:20-8:35

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1	1		Smooth even	1.5			01	Tailings 0-3.8m
1					1.5			02	0-0.3m Grey py sand, wet, wk compact
2	2	2		~	1.5			03	0.3-1.5m Light grey silt/clay, wet poor compaction
3					1.5			04 (0.8m)	1.5-3m "Soup" caught in pale from 10ft run (rod 2) after 3-4.5 was fully caught in bag/trap. "Soup" was silty, wet, partially compact but bound in water.
4	3				1.5				3-3.8m Light grey silt/clay, moist to wet, med compact
5									3.8-4.5 Peat
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

EOH = 4.5m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 14 2018

HOLE NO. BMGT-18-33 DIAMETER 4" ELEVATION 395

SHIFT HOURS _____ to _____

LOCATION OS19509 mE ; 5280151 mN

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS _____

MOVE TO HOLE 8:35 - 8:55 Drill 8:55 - 9:15

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1	1		low even	1/1.5				Tailings 0 - 3.45
0.03								O1 (2m)	0 - 0.03 Organics ; Grass/roots
0.03	2	2			1.5/1.5			O2 (1.45m)	0.03 - 0.3 Grey lg sand, moist, compact
0.3									0.3 - 1.6 Light grey silt/sand (SO/SS) wet, wet compaction
1.6	3								1.6 - 3.45 Light grey silt/clay, moist, compact.
3.45									3.45 - 4.5 Pent
4.5									
5									
6									
7									
8									
9									
10									* Low recovery in rod 1
11									
12									
13									
14									
15									

COMMENTS:

Hole moved ~ 10m east to avoid muck pile



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 14 2018

HOLE NO. BMGT-18-34 DIAMETER 4" ELEVATION 396

SHIFT HOURS _____ to _____

LOCATION 0519523 mE; 5280105mN

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS _____

MOVE TO HOLE 8:15 - 9:30 Drill 9:30 - 10:00

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0-1	1	1		Hard Uneven	1.5 / 1.5				Tailings 0-5m
1-2	2	2		↓	0.8 / 1.5			01 (3m)	0-0.2m Dark grey fg sand, dry, wk compaction
2-3	3	3			1 / 1.5			02 (2m)	0.2-3m Fg sand in dominately coarse angular gravel mine waste. Sand is grey, dry, weakly compact.
3-4									3-4.2m Grey silt/clay with moderate amounts of mine waste gravel, wet, non compact.
4-5									4.2-5m Light grey silt, w/ wk mine waste gravel, moist, med compact.
5-6									5-6m Peat
6-7									6-6.2 Till
7-8									* Large sample sizes due to the amount of mine waste mixed up w/ tailings.
8-9									
9-10									
10-11									
11-12									
12-13									
13-14									6.2m = EOH (Bedrock)
14-15									

COMMENTS:

Hole located substantially to the west of first planned hole to avoid lake, approx 2m west of visible tailings proximal to muck berm.



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 14 2018

HOLE NO. BMGT-18-35 DIAMETER 4" ELEVATION 396m

SHIFT HOURS _____ to _____

LOCATION 0819503mE; 5280102mN

TOTAL HOURS _____

GEOLOGIST J. Edwards DRILLER Emile

CONTRACT HOURS _____

MOVE TO HOLE 10:30-10:35 Dr. 11 10:35-10:50

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	11			Smooth even	1.5 1.5		[Dotted pattern]	01	Tailings 0-5.6m
1								02	0-0.1m organics; grass/roots
2	22							03	0.1-0.6m Grey fy sand, dry, wk compaction
3	33							04	0.6-1.5m Grey fy sand, wet, wk compaction
4								05	1.5-1.8m Grey fy sand, dry, wk compaction
5	44							(1.6m)	1.8-4m Grey fy sand, wet, wk compaction
6				Smooth uneven			[Horizontal lines]		4-5.6m Light grey silt, moist-wet, Mod compaction
7									
8									5.6-6m Peat
9									
10									
11									
12									
13									
14									
15									

EGH = 6.0m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 14 2018

HOLE NO. BMGT-18-36 DIAMETER 4" ELEVATION 396 m

SHIFT HOURS
_____ to _____

LOCATION 0519450 m E ; 5280098 m N

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS

MOVE TO HOLE 10:50 - 11:00 Drill 11:00 - 11:15

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			Smooth even			•••••	01	0-0.1 - organics; grass/roots
2	2			Smooth even			•••••	02	0.1-0.4 Grey fg sand, moist, weak compaction
3							•••••	03	0.4-1.5 Grey fg sand, wet, weak compaction
4	3			Smooth even			•••••	04	1.5-1.7 Dark grey brown, fg sand, moist-wet, weak compaction
5	4						|||||	05	1.7-3.8 Grey fg sand, wet, weak compaction
6							^ ^ ^	06	3.8-4.5 Light grey silt, wet, medium compaction
7	5						^ ^ ^		4.5-5.8 Silt soup, grey, weak compaction, wet
8							^ ^ ^		5.8-5.9 Silt, light grey, moist, med compaction
9									5.9-6.8 Dark brown peat
10									Tailings 0-5.9
11									
12									
13									
14									
15									

EOH = 6.8m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 14 2018

HOLE NO. BMGT-18-37 DIAMETER 4" ELEVATION 393

SHIFT HOURS
 _____ to _____

LOCATION 0519398mE, 5280098mN

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS

MOVE TO HOLE 11:15 - 11:20 Drill 11:40 - 11:50

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1	1		Low even				01	Tailings 0-3
1									0-2.4 Dark grey fg sand, wet, weak compaction
2				Low even				02	2.4-3 Grey silt/sand, wet, med compaction.
3	3	3							3-3.1 Till
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

EOLH = 3.1m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 14 2018

HOLE NO. BMGT-18- 38 DIAMETER 4" ELEVATION 393

SHIFT HOURS
_____ to _____

LOCATION 0519395m E, 5280098m N

GEOLOGIST J. Edwards DRILLER Emile

MOVE TO HOLE 11:50 - 11:55 Drill 11:55 - 14:05

TOTAL HOURS

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0-1	1	1		Low even	1/1.5		• • • • •	01	Tailings 0-3m 0-0.1 organics, weed particles
1-2	2	2		Low even	1/1.5		• • • • •	02	0.1-2.8 Grey brown, fg sand, wet, weak compaction
2-3	3	3			0.15 0.15		△△△△△		2.8-3 Grey silt/sand, wet to moist, weak compaction
3-4									3-3.15 Till
4-5									3.15 Suspected Bedrock.
5-6									
6-7									
7-8									
8-9									
9-10									
10-11									
11-12									
12-13									
13-14									
14-15									

EOH = 3.15m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 19 2018

HOLE NO. BMGT-18-39 DIAMETER 4" ELEVATION 393 m

SHIFT HOURS
_____ to _____

LOCATION 0519342 mE, 5280058 mN

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS

MOVE TO HOLE 14:05 - 14:31 Drill 14:31 - 14:40

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			Smooth even	1.5 / 1.5		[Dotted pattern]	01	Tailings 0-2.1m 0-1.9 Grey fg sand, moist to wet, weak compaction 1.9-2.1 Light grey silt / sand 2.1-2.2 Dark brown peat 2.2 Suspected bedrock. EOH = 2.2 m
2	2		Smooth then hard @ bottom even	0.7 / 0.7		[Dotted pattern]	02		
3							[Wavy pattern]		
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 14 2018 HOLE NO. BMGT-18- 40 DIAMETER 4" ELEVATION 393m
 SHIFT HOURS _____ LOCATION 0519331 mE, 5280082 mN
 _____ to _____ GEOLOGIST J. Edwards DRILLER Emile
 TOTAL HOURS _____ MOVE TO HOLE 14:40-14:50 Drill 14:50-15:10
 _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			Smooth even	1.5 1.5		[Graphic Log]	01	<p>Tailings 0-5.9m</p> <p>0-0.6 Dark grey, brown fg sand, moist moderate compaction</p> <p>0.6-4.5 Grey fg sand, wet, weak compaction, minor silt</p> <p>4.5-5.9 Light grey silt, moist-wet, moderate compaction</p> <p>5.9-6 Peat</p> <p>EOH = 6m</p>
2	2			Smooth even	1.5 1.5		[Graphic Log]	02	
3							[Graphic Log]	03	
4	3			Smooth even	1.5 1.5		[Graphic Log]	04	
5	4			Smooth even	1.5 1.5		[Graphic Log]	05	
6							[Graphic Log]	06 (0.9m)	
7									
8									
9									
10									
11									
12									
13									
14									
15									

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 14 2018

HOLE NO. BMGT-18- 41 DIAMETER 4" ELEVATION 395

SHIFT HOURS
_____ to _____

LOCATION 0519403mE, 5280051mN

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS

MOVE TO HOLE 15:10-15:35 Drill 15:40-15:55

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1		Low even	1.5 / 1.5		•••	01	<p>Tailings 0 - 6.8m</p> <p>0 - 1.8 Dark grey-brown, dry sand, weak compaction</p> <p>1.8 - 5.7 Grey, wet sand, weak compaction</p> <p>5.7 - 6.8 Light grey silt, moist, med compaction</p> <p>6.8 - 7.5 Peat</p> <p>EOH = 7.5m</p>
2	2	2		Low even	1.5 / 1.5		•••	02	
3							•••	03	
4	3	3		Low even	1.5 / 1.5		•••	04	
5	4	4		Low even	1.5 / 1.5		•••	05	
6							•••	06	
7	5	5		Low even	1.5 / 1.5		•••	07 (0.8m)	
8							▲▲▲		
9									
10									
11									
12									
13									
14									
15									

COMMENTS:



**OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG**

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 14 2018 HOLE NO. BMGT-18-42 DIAMETER _____ ELEVATION 398
 SHIFT HOURS _____ to _____ LOCATION 0519452 m E, 5280049 m N
 _____ to _____ GEOLOGIST J. Edwards DRILLER Emile
 TOTAL HOURS _____ MOVE TO HOLE 15:55-16:15 Drill 16:15-16:25
 _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1		Smooth even	1.5 1.5		· ·	01	<p>Tailings 0-5.9m</p> <p>0-2.2 Dark grey fg sand, weak compaction, moist - dry</p> <p>2.2-4.1 Grey fg sand, wet, moderate compaction,</p> <p>4.1-5 Very fg sand, weak silt, grey, moderate compaction</p> <p>5-5.9 Light grey silt, weak sand, moist, moderate compaction</p> <p>5.9-6 Peat</p> <p>EOH = 6m</p>
2	2	2		Smooth even	1.5 1.5		· ·	02	
3							· ·	03	
4	3	3		Smooth even	1.5 1.5		· ·	04	
5	4	4		Smooth even	1.5 1.5		· ·	05	
6							· · · · · · · · · · · · · · ·	06 (0.9m)	
7									
8									
9									
10									
11									
12									
13									
14									
15									

COMMENTS:



**OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG**

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 14 2018

HOLE NO. BMGT-18-43 DIAMETER 4" ELEVATION 398m

SHIFT HOURS _____ to _____

LOCATION 0519497mE ; 5280049mN

GEOLOGIST J. Edwards DRILLER Emile

MOVE TO HOLE 16:25-16:40 Drill 16:40-17:20

TOTAL HOURS _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1	1		Smooth even	1.5 / 1.5		••••	01	Tailings 0-7m 0-3 Dark grey fg sand, dry, weak compaction 3-6.7 Grey fg sand, wet, weak compaction 6.7-7 Light grey silt with very fg sand, moist, mod compaction 7-7.64 Peat EOH = 7.64m
1									
2	2	2		Smooth even	1.5 / 1.5		••••	02	
3								03	
4	3	3		Smooth even	1.5 / 1.5		••••	04	
5								05	
6	4	4		Smooth even	1.5 / 1.5		••••	06	
7	5	5		Smooth even	1.5 / 1.5		••••	07	
8		6		Hard even			^^^		
9									
10									
11									
12									
13									
14									
15									

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 15 2018 HOLE NO. BMGT-18- 44 DIAMETER 4" ELEVATION 398
 SHIFT HOURS _____ LOCATION 0519521m E, 5280051m N
 _____ to _____ GEOLOGIST J. Edwards DRILLER Emile
 TOTAL HOURS _____ MOVE TO HOLE 7:30-8:13 Drill 8:13-8:30
 _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1		Smooth even	1.5 / 1.5		01	Tailings 0-8m 0-3 Dark grey fg sand, dry, weak compaction 3-7.1 Grey fg sand, wet, weak compaction 7.1-8 Dark grey-brown fg sand, moist, weak compaction, contains some organics (grass), weak silt 8-9 Peat
2	2	2		Smooth even	1.5 / 1.5		.....	02
3							.....	03
4	3	3		Smooth even	1.5 / 1.5		.....	04
5	4	4		Smooth even	1.5 / 1.5		.....	05
6							.....	06
7	5	5		Smooth even	1.5 / 1.5		.....	07
8	6	6		Smooth even	1.5 / 1.5		.....	08
9							^^ ^^ ^^		
10									
11									
12									
13									
14									
15									

COMMENTS: Hole moved west to avoid lake and east of Berm wall (muck)



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 15 2018 HOLE NO. BMGT-18- 45 DIAMETER 4" ELEVATION 399
 SHIFT HOURS _____ LOCATION 0519543 m E, 5280029 m N
 _____ to _____ GEOLOGIST J. Edwards DRILLER Emile
 TOTAL HOURS _____ MOVE TO HOLE 8:30-8:55 Drill 8:55-9:10
 _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1		Smooth even	1.5 1.5		••••	01	Tailings 0-6.8m 0-3.8 Dark grey fg sand, dry, weak Compaction 3.8-5.3 Grey fg sand, wet, weak compaction, mod silt at times 5.3-6.8 Dark grey fg sand, moist, mod compaction. Lenses of light grey clay/silt 6.8-7.6 Peat 7.6-8.4 Till EOH = 8.4 m (Bedrock suspected)
2	2	2		Smooth even	1.5 1.5		••••	02	
3	3	3		Smooth even	1.5 1.5		••••	03	
4	4	4		Smooth even	1.5 1.5		••••	04	
5	5	5		Smooth even	1.5 1.5		••••	05	
6	5	5		Smooth even	1.5 1.5		••••	06	
7							▲▲▲		
8	6			Hard even			▲▲▲ △△△ ○△○△		
9									
10									
11									
12									
13									
14									
15									

COMMENTS: Hole located east of main tailings dam on breach into lake



**OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG**

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 15 2018 HOLE NO. BMGT-18- 46 DIAMETER 4" ELEVATION 399
 SHIFT HOURS _____ to _____ LOCATION 0519526 mE, 5279998 mN
 _____ to _____ GEOLOGIST J. Edwards DRILLER Emile
 TOTAL HOURS _____ MOVE TO HOLE 9:10-9:25 Drill 9:25-9:45
 _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			Smooth even	1.5 1.5		[Dotted pattern]	01	Tailings 0-4.8m
2	2			Smooth even			[Dotted pattern]	02	0-1.1 Dark grey, dry fg sand, weak compaction
3							[Dotted pattern]	03	1.1-1.5 becomes moist
4	3			Smooth even			[Dotted pattern]	04	1.5-3.3 Dry with small pockets of moist silt
5	4			Smooth even			[Dotted pattern]	05 (0.8m)	3.3-3.4 Light grey silt, moist, compact
6							[Dotted pattern]		3.4-4 Dark grey fg sand, variably dry-moist
7							[Dotted pattern]		4-4.7 Dark grey fg sand, wet, weak compaction
8							[Dotted pattern]		4.7-4.8 Light grey silt, moist, compact
9							[Dotted pattern]		4.8-4.9 Peat
10							[Dotted pattern]		4.9-5.25 Till
11							[Dotted pattern]		
12							[Dotted pattern]		
13							[Dotted pattern]		
14							[Dotted pattern]		
15							[Dotted pattern]		

COMMENTS:

EOH = 5.25



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 15 2018 HOLE NO. BMGT-18-47 DIAMETER 4" ELEVATION 398
 SHIFT HOURS _____ to _____ LOCATION 0519473 mE, 5280001
 GEOLOGIST J. Edwards DRILLER Emile
 MOVE TO HOLE 9:45-10:00 Drill 10:00-10:15
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1	1		Smooth even	1.5 / 1.5		.....	01	Tailings 0-6.9m
1							.....		0-4.3 Dark grey fg sand, dry, weak compaction
2	2	2					.....	02	
3							.....	03	4.3-4.7 Dark grey fg sand, moist, mod compaction
4							.....	04	
5	4	4					.....	05	4.7-6.8 Grey fg sand, wet, weak compaction, pockets of weak silt
6							.....	06	
7	5	5		Smooth then hard even			.....	07 (0.9m)	6.8-6.9 silt / sand, light grey, mod compaction
8							.....		6.9-7 Till
9									EOH = 7m
10									
11									
12									
13									
14									
15									

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 15 2018 HOLE NO. BMGT-18- 48 DIAMETER 4" ELEVATION 397m
 SHIFT HOURS _____ LOCATION 0519424 mE ; 5280002 mN
 _____ to _____ GEOLOGIST J. Edwards DRILLER Emile
 TOTAL HOURS _____ MOVE TO HOLE 10:15-10:30 Drill 10:30-10:50
 _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1	1		Low even	1.5 1.5		•••••	01	Tailings 0-6.8m
1							•••••		
2	2	2					•••••	02	0-3.2 Dark grey fg sand, dry, weak compaction
3							•••••	03	3.2-6.3 Grey fg sand with silt, wet, mod compaction
4	3	3					•••••	04	6.3-6.8 Light grey silt with fg sand, moist-wet, mod compaction
5							•••••	05	
6	4	4					•••••	06	6.8-6.9 Peat
7							•••••	07 (0.8m)	6.9-7 Till
8	5	5		Low-mod bumpy			•••••		
9							•••••		
10							•••••		
11							•••••		
12							•••••		
13							•••••		
14							•••••		
15							•••••		

EOH = 7.04m

COMMENTS:



**OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG**

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 15 2018

HOLE NO. BMGT-18-49 DIAMETER 4" ELEVATION 394m

SHIFT HOURS
_____ to _____

LOCATION 0519376mE, 5279999mN

GEOLOGIST J. Edwards DRILLER Emile

MOVE TO HOLE 10:50-11:10 Drill 11:10-11:30

TOTAL HOURS

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1		Smooth even	1.5 1.5		•••••	01	Tailings 0-6.7m 0-1 Dark grey fg sand, dry, weak compaction. 1-4.3 Dark grey fg sand, wet, mod-mostly weak compaction. 4.3-5.1 Becomes more weakly compact 5.1-5.2 Lense of light grey silt, moist, mod compaction. 5.2-5.4 Dark grey fg sand, wet, weak compaction 5.4-5.45 Lense of silt 5.45-6.6 Dark grey fg sand, wet, compact. globs of light grey silt 6.6-6.7 Light grey silt, moist, compact 6.7-7.6 Peat 7.6-8 Till EOH = 8m
2	2	2					•••••	02	
3							•••••	03	
4	3	3					•••••	04	
5	4	4					•••••	05	
6							•••••	06	
7	5	5					•••••	07 (0.7m)	
8		6		Hard			▲▲▲▲ ▲▲▲▲ ○△○△ ○△○△		
9									
10									
11									
12									
13									
14									
15									

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 15 2018

HOLE NO. BMGT-18- 50 DIAMETER _____ ELEVATION 394m

SHIFT HOURS _____ to _____

LOCATION 0519332m E, 5280004m N

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS _____

MOVE TO HOLE 11:30-11:45 Drill 12:40-12:50


MECHANICAL DOWN TIME _____

CONTRACT HOURS _____

DRILLING PROBLEMS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			Smooth even	1.5 1.5			01 (1.5m)	Tailings 0-1.5m 0-1 Dark grey fg sand, dry, mod compact 1-1.5 Dark grey fg sand, moist-wet, mod compact EOH = 1.5m
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

COMMENTS:



**OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG**

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 15 2018

HOLE NO. BMGT-18- 51 DIAMETER 4" ELEVATION 395 m

SHIFT HOURS
_____ to _____

LOCATION 0519286 m E, 5279994 m N

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS

MOVE TO HOLE 12:50-13:00 Drill 13:00-13:15

CONTRACT HOURS

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			Low even	1.5		[Dotted pattern]	01 (2m)	<p align="center">Tailings 0-5.2 m</p> <p>0-0.1 Grass roots in tailings</p> <p>0.1-0.2 Brown silt, compact, wet</p> <p>0.2-1.0 Dark grey very fg sand with weak silt, compact</p> <p>1-4.5 Grey very fg sand with weak to mod silt, wet, weak compaction</p> <p>4.5-5.2 Light grey silt, moist, compact</p> <p>5.2-6 Peat</p> <p align="center">EOH = 6m</p>
2	2				1.5		[Dotted pattern]	02	
3	3						[Dotted pattern]	03	
4							[Dotted pattern]	04	
5	4	4					[Dotted pattern]	(1.2m)	
6							[^ ^ ^ ^ pattern]		
7									
8									
9									
10									
11									
12									
13									
14									
15									

COMMENTS:

Hole on east extent of marsh



**OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG**

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 15 2018 HOLE NO. BMGT-18- 52 DIAMETER 4" ELEVATION 395m
 SHIFT HOURS _____ to _____ LOCATION 0519278m E, 5279975m N
 _____ to _____ GEOLOGIST J. Edwards DRILLER Emile
 TOTAL HOURS _____ MOVE TO HOLE 13:15-13:27 Drill 13:27-13:40
 _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			Low even	1.5 / 1.5		[Dotted pattern]	01	<p>Tailings 0-3.75m</p> <p>0-1.7 Dark grey fg sand, moist, compact</p> <p>1.7-2.7 Grey fg sand with weak silt, wet, weak compaction</p> <p>2.7-3 Same as above with mod compaction</p> <p>3-3.75 Light grey very fg sand with high silt content.</p> <p>3.75-4.5 Peat</p> <p align="center">EOH = 4.5m</p>
2	2						[Dotted pattern]	02	
3							[Dotted pattern]	03	
4	3						[Dotted pattern]	04 (75m)	
5							[Triangle pattern]		
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 15 2018

HOLE NO. BMGT-18-53 DIAMETER 4" ELEVATION 395m

SHIFT HOURS
_____ to _____

LOCATION 0519303mE, 5279973mN

GEOLOGIST J. Edwards DRILLER _____

TOTAL HOURS

MOVE TO HOLE 13:40-13:53 Drill 13:53-14:05

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0-1	1	1		Smooth even	1.5 1.5		01	<p>Tailings 0-4m</p> <p>0-0.3 Dark grey to black fg sand, moist, weak compaction.</p> <p>0.3-2.5 Grey fg sand, wet, weak compaction</p> <p>2.5-3.5 Grey fg sand with weak silt, mod compaction</p> <p>3.5-4 Light grey silt with fg sand, wet, weak compaction</p> <p>4-4.3 Peat</p> <p>4.3-4.95 Till</p> <p>EOH = 4.95m, Bedrock @ EOH</p>
1-2	2	2			2 2		.....	02
2-3							.....	03
3-4	3	3		Smooth even			.....	04
4-5				Hard boundary			^ ^ ^ ^		
5-6					1.05 1.5		o o Δ		
6-7							o o Δ		
7-8							o o Δ		
8-9							o o Δ		
9-10							o o Δ		
10-11							o o Δ		
11-12							o o Δ		
12-13							o o Δ		
13-14							o o Δ		
14-15							o o Δ		

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 15 2018

HOLE NO. BMGT-18- 54 DIAMETER 4" ELEVATION 394m

SHIFT HOURS _____ to _____

LOCATION 0519326 m E , 5279976 m N

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS _____

MOVE TO HOLE 14:05-14:10 Drill 14:10-14:22

MECHANICAL DOWN TIME _____

CONTRACT HOURS _____

DRILLING PROBLEMS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			Smooth even	1.5 1.3		• • • • •	01	Tailings 0-2.5 m 0-0.3 Dark grey-black fg sand, moist weak compaction 0.3-2.5 Dark grey fg sand, wet, weak compaction 2.5-3 Till EOH = 3 m
2	2			↓ Bumpy		• • • • •	02		
3						△ △ △ △ △ ○ ○ ○ ○ ○			
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

COMMENTS:



**OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG**

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 15 2018

HOLE NO. BMGT-18- 55 DIAMETER 4" ELEVATION 394 m

SHIFT HOURS
_____ to _____

LOCATION 0519350m E, 5279979 m N

GEOLOGIST J. Edwards DRILLER Emile

MOVE TO HOLE 14:22 - 14:45 Drill 14:45 - 15:00

TOTAL HOURS

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			Low even	1.5 1.5		[Symbol]	01	Tailings 0-5m
2	2						[Symbol]	02	0-0.4 Dark grey-Black fg sand, dry, weak compaction
3							[Symbol]	03	0.4-1.1 Dark grey fg sand with weak silt, mod compaction
4	3						[Symbol]	04	1.1-3.5 Grey fg sand, wet, weak compaction
5	4						[Symbol]	05	3.5-4.9 Light grey sand with heavy silt, mod compaction.
6							[Symbol]		4.9-5 Light grey silt with weak sand, moist, mod compaction
7									5-6 Peat
8									
9									
10									
11									
12									
13									
14									
15									

COMMENTS:



**OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG**

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 15 2018

HOLE NO. BMGT-18- 56 DIAMETER 4" ELEVATION 395m

SHIFT HOURS _____ to _____

LOCATION 0519378 m E , 527997 m N

GEOLOGIST J. Edwards DRILLER Emile

MOVE TO HOLE 15:00-15:05 Drill 15:05-15:20

TOTAL HOURS _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1		Smooth even	1.5 / 1.5		[Graphic Log: dots]	01	Tailings 0-5.3m
2	2	2			1.5 / 1.5		[Graphic Log: dots]	02	0-1.7 Dark grey fg sand, dry, mod compaction
3	3	3			1.5 / 1.5		[Graphic Log: dots]	03	1.7-5 Grey fg sand with occasional silt lenses, wet, weak compaction
4							[Graphic Log: dots]	04	5-5.3 Dark grey fg sand, moist-wet, weak - mod compaction
5	4	4			0.9 / 1.3		[Graphic Log: dots]		5.3-5.4 Peat
6							[Graphic Log: ^^^^]		
7									
8									
9									
10									
11									
12									
13									
14									
15									

EOH = 5.4m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 15 2018

HOLE NO. BMGT-18- 57 DIAMETER 4" ELEVATION 396 m

SHIFT HOURS
 _____ to _____

LOCATION 0519402 m E, 5279973 m N

GEOLOGIST J. Edwards DRILLER Emile

MOVE TO HOLE 15:20-15:30 Drill 15:30-15:45

TOTAL HOURS

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1	1		Smooth even	1.5 / 1.5		[Dotted pattern]	01	Tailings 0-6m
1							[Dotted pattern]		0-2.7 Dark grey fg sand, dry, weak
2	2	2					[Dotted pattern]	02	Compaction
3							[Dotted pattern]		2.7-3 Same as above but moist
4	3	3					[Dotted pattern]	03	
5							[Dotted pattern]		3-5.7 Grey fg sand, wet, weak
6	4	4		smooth to hard & bumpy			[Dotted pattern]	04	Compaction
7							[Dotted pattern]		5.7-6 Light grey silt, moist, compact.
8							[Dotted pattern]	05	
9							[Dotted pattern]		EOH = 6m
10							[Dotted pattern]	06	Bedrock below
11							[Dotted pattern]		
12							[Dotted pattern]		
13							[Dotted pattern]		
14							[Dotted pattern]		
15							[Dotted pattern]		

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 15 2018

HOLE NO. BMGT-18-58 DIAMETER 4" ELEVATION 397m

SHIFT HOURS
 _____ to _____

LOCATION 0519426mE, 5279975mN

GEOLOGIST J. Edwards DRILLER Emile

MOVE TO HOLE 15:45-15:55 Drill 15:55-16:05

TOTAL HOURS

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1	1		Smooth even	1.5 / 1.5		[Dotted pattern]	01	Tailings 0-3.5m
1								02	0-1.5 Dark grey fg sand, dry, weak compaction
2	2	2		Smooth even	1.5 / 1.5		[Dotted pattern]	03	1.5-2.3 Dark grey fg sand w/ weak silt, moist, weak compaction
3								(1.5m)	2.3-3 Dark grey fg sand, dry, weak compaction
4	3	3		Hard even					3-3.4 Grey fg sand, moist, compact
5									3.4-3.5 Dark grey silt with fg sand rock chip from bedrock
6									
7									EOH = 3.5m. Bedrock below
8									
9									
10									
11									
12									
13									
14									
15									

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE Sept 15 2018

HOLE NO. BMGT-18-59 DIAMETER 4" ELEVATION 398m

SHIFT HOURS
 _____ to _____

LOCATION 0519453m E, 5279976m N
 GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS

MOVE TO HOLE 16:05-16:15 Drill 16:15-16:30
 MECHANICAL DOWN TIME _____

CONTRACT HOURS

DRILLING PROBLEMS _____
 OTHER _____
 CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1			Smooth even	1.5		•••••	01	Tailings 0-5.9m
1					1.5		•••••		0-4.1 Dark grey fg sand, dry, weak compaction
2	2	2					•••••	02	2cm clay lense @ 0.1m
3							•••••	03	4.1-4.5 Grey fg sand w/ weak silt, moist-wet, weak compaction
4	3	3					•••••	04	
5	4	4		mod. bumpy	0.75		•••••	05	4.5-5.9 Dark grey-brown "soup" w/ fg sand, low recovery
6					1.5		•••••	(1.9m)	5.9-6 Till
7							•••••		
8							•••••		
9							•••••		
10							•••••		
11							•••••		
12							•••••		
13							•••••		
14							•••••		
15							•••••		

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 15 2018

HOLE NO. BMGT-18- 60 DIAMETER 4" ELEVATION 399m

SHIFT HOURS
_____ to _____

LOCATION 0519473m E, 5279977m N

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS

MOVE TO HOLE 16:30-17:00 Drill 17:00-17:21

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			Low even	1.5		[Graphic Log]	01	Tailings 0-6.6m
2	2						[Graphic Log]	02	0-4.7 Dark grey-brown fg Sand, occasional 2cm thick lenses of light grey silt, weak compaction
3	3						[Graphic Log]	03	4.7-6.15 Grey fg Sand w/ weak silt, moist, weak-mod compaction
4							[Graphic Log]	04	6.15-6.3 Grey fg Sand, wet, weak compaction
5	4						[Graphic Log]	05	6.3-6.4 Light grey silt, moist, compact
6							[Graphic Log]	06	6.4-6.6 Dark grey fg Sand, moist-wet, weak-mod compaction
7				Bumpy			[Graphic Log]	07 (0.65m)	6.6-6.65 Till
8									EOH = 6.65m, Bedrock below
9									
10									
11									
12									
13									
14									
15									

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 16 2018

HOLE NO. BMGT-18- 61 DIAMETER 4" ELEVATION 399m

SHIFT HOURS
_____ to _____

LOCATION 0519500mE, 5279976 mN

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS

MOVE TO HOLE Set up Drill 8:20-8:41

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1		Smooth even	1.5 1.9		[Graphic Log]	01	Tailings 0 - 7.5 m
2	2	2					[Graphic Log]	02	0-2.5 Dark grey fg sand, dry, lenses of black fg sand, weak compaction
3							[Graphic Log]	03	2.5-5.6 Grey fg sand, dry, weak compaction pockets of compact silty sand (moi)
4	3	3					[Graphic Log]	04	5.6-6 Grey fg sand with mod silt, damp, weak-mod compaction
5	4	4					[Graphic Log]	05	6-6.5 Light grey fg sand, wet, weak compaction
6							[Graphic Log]	06	6.5-6.9 Dark grey silt/clay, moist, compact, contains heavy organics
7	5	5					[Graphic Log]	07	6.9-7.5 Grey fg sand, moist, mod compaction, weak silt.
8				hard even			[Graphic Log]	(1.5m)	
9							[Graphic Log]		
10							[Graphic Log]		
11							[Graphic Log]		
12							[Graphic Log]		
13							[Graphic Log]		
14							[Graphic Log]		
15							[Graphic Log]		

EOH = 7.5 m, Bedrock below

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 16 2018

HOLE NO. BMGT-18- 62 DIAMETER 4" ELEVATION 399m

SHIFT HOURS
_____ to _____

LOCATION 0519526m E, 5279975m N

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS

MOVE TO HOLE 8:40-8:50 Drill 8:50-9:10

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			Smooth even	1.5 / 1.5		••••	01	<p>Tailings 0-6.7m</p> <p>0-1.5 Dark grey fg sand, dry, weak compaction</p> <p>1.5-1.7 Same as above with mod compaction, moist</p> <p>1.7-2.2 Grey sand w/weak silt and 50% mine muck (proximal to Burm)</p> <p>2.2-3.5 Grey fg sand, dry, patchy moist, weak compaction</p> <p>3.5-5.1 Dark grey fg sand, weak silt, mod-low compaction, damp</p> <p>5.1-6.4 Dry fg sand, mod silt, wet, lumpy silt, mostly weak compaction</p> <p>6.4-6.5 Dark grey fg sand, dry-moist, weak compaction</p> <p>6.5-6.6 Silt/clay, grey-blue</p> <p>6.6-6.7 Grey fg sand w/mod silt, wet, weak compaction</p> <p>6.7-6.9 Till</p> <p>EOH = 6.9m, Bedrock below</p>
2	2			mod bumpy			••••	02	
3	3			Smooth even			••••	03	
4							••••	04	
5	4	4					••••	05	
6							••••	06	
7	5	5		hard even	0.9 / 1.5		•••• △△△△	07 (0.7m)	
8									
9									
10									
11									
12									
13									
14									
15									

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 16 2018

HOLE NO. BMGT-18- 63 DIAMETER 4" ELEVATION 400m

SHIFT HOURS
_____ to _____

LOCATION 0519540m E, 5239975m N

GEOLOGIST J. Edwards DRILLER Emile

MOVE TO HOLE 9:10-9:25 Drill 9:45-10:00

TOTAL HOURS

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0-1	1	1		Smooth even	11.5 11.0		[Graphic Log: Dotted pattern]	01	Tailings 0-4.7m
1-2	2	2					[Graphic Log: Dotted pattern]	02	0-3.6 Dark grey fg sand, dry, weak compact
2-3							[Graphic Log: Dotted pattern]	(2m)	3.6-3.7 muck, coarse gravel (proximal to burm)
3-4	3	3					[Graphic Log: Dotted pattern]	03	3.7-4.5 Same as 0-3.6m
4-5	4	4		Bumpy smooth even	0.2 1.5		[Graphic Log: Dotted pattern]	(1.7m)	4.5-4.7 mine muck from burm (gravel) with dark grey sand, dry
5-6				mod bumpy					* run 4
6-7									Recovery of 20cm over 1.5m. Suspected boulder from Burm pushed into ground by bit
7-8									Suspected as reason for low recovery
8-9									
9-10									
10-11									
11-12									
12-13									
13-14									
14-15									

EOH = 6m
EO Samples 4.7m

COMMENTS:



**OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG**

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 16 2018

HOLE NO. BMGT-18- 64 DIAMETER 4" ELEVATION 402 m

SHIFT HOURS
_____ to _____

LOCATION 0519526 m E, 5279950 m N

GEOLOGIST J. Edwards DRILLER Emile

MOVE TO HOLE 10:00-10:15 Drill 10:15-10:45

TOTAL HOURS

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1	1		Smooth even	1.5 1.5			01	Tailings 0-11.3m
1				Hard even				02	0-1.1 Dark grey fg sand, dry, weak compaction
2	2	2		Smooth even				03	1.1-1.5 Grey fg sand, moist, compact
3								04	1.5-2.7 Dark grey fg sand, lumpy silt, mod-weak compaction
4								05	2.7-5 Grey fg sand, weak silt lumps, weak compaction
5	4	4						06	5-6.4 Grey-brown fg sand with lumpy silt, weak compaction
6								07	6.4-7.5 Grey fg sand, wet, weak compaction
7								08	7.5-8.7 Grey silt w/ vfg sand, moist, compact
8	6	6						09	8.7-9.7 Very fg sand, moist-wet, mod compaction
9								10	9.7-10.8 Light grey silt w/ vfg sand, moist compact
10								11	10.8-11.30 Grey fg sand w/ weak silt, wet, mod compaction
11		8		Hard even		2000000		(1.35m)	11.30-11.35 Muck waste, till
12									
13									
14									
15									

EOH = 11.35m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 16 2018

HOLE NO. BMGT-18-65 DIAMETER 4" ELEVATION 399m

SHIFT HOURS
_____ to _____

LOCATION 0519498m E, 5279950

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS

MOVE TO HOLE 10:45-11:00 Drill 11:00-11:35

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0-1.5	1	1		Low even	1.5		[Symbol]	01	Tailings 0-13.6m
1-2					1.5		[Symbol]	02	0-5.9 Dark grey-brown fg sand, dry, weak compaction
2-3	2	2					[Symbol]	03	5.9-6.4 Grey fg sand, occasional lenses of silt, weak compaction, moist
3-4							[Symbol]	04	6.4-7.5 same as above but wet, weak compaction
4-5	3	3					[Symbol]	05	7.5-9 Light med grey silt with heavy vfg sand, moist-wet, mod compaction
5-6							[Symbol]	06	9-10.6 "Soup" with mod compaction, silty sand
6-7	4	4					[Symbol]	07	10.6-12.7 Grey vfg sand - silt (50/50), wet-moist, mod compaction
7-8							[Symbol]	08	12.7-12.8 Dark grey fg sand, moist, weak compaction
8-9	5	5					[Symbol]	09	12.8-13.6 Light grey silt, moist, compact
9-10							[Symbol]	10	13.6-14.2 Peat
10-11	6	6					[Symbol]	11	14.2-15 Till
11-12							[Symbol]	12	
12-13	7	7					[Symbol]	13	EOH 15m
13-14							[Symbol]	14 (0.6m)	
14-15	8	8					[Symbol]		
15				Bumpy			[Symbol]		

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 16 2018

HOLE NO. BMGT-18- 66 DIAMETER 4" ELEVATION 397m

SHIFT HOURS
_____ to _____

LOCATION 0519426 m E, 5279949 m N

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS

MOVE TO HOLE 13:00-13:15 Drill 13:15-13:40

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1	1						01	Tailings 0 - 9.8m
1								02	0-4.7 Dark grey fg sand, dry to moist to damp, weak compaction
2	2	2						03	4.7-5.4 Dark grey fg sand, moist, weak compaction
3								04	5.4-6 Grey fg sand, weak silt, wet, weak compaction
4								05	6-8 Grey vfg sand w/ weak silt, wet, no compaction
5	4	4						06	8-9 vfg sand w/ silt, light grey, moist, compact
6								07	9-9.8 Grey silty - vfg sand, damp-dry, very compact
7								08	9.8-9.9 Till
8		6						09	
9								10	EOH = 9.9m, Bedrock below
10	6	7							
11									
12									
13									
14									
15									

COMMENTS:



**OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG**

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 16 2018

HOLE NO. BMGT-18- 67 DIAMETER 4" ELEVATION 395 m

SHIFT HOURS
_____ to _____

LOCATION 0519378 mE, 5279950 mN

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS

MOVE TO HOLE 13:40-13:55 Drill 13:55-14:10

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0-1	1	1		Low even	1.5 / 1.5		[Graphic Log: Dotted pattern]	01	Tailings 0-6m 0-0.3 Brown fg sand w/ grass roots
1-2	2	2			1.5 / 1.5		[Graphic Log: Dotted pattern]	02	0.3-2.7 Dark grey fg sand, dry, weak compaction, occasional lumps
2-3							[Graphic Log: Dotted pattern]	03	2.7-4.4 Grey fg sand, wet, weak compaction
3-4	3	3			1/1		[Graphic Log: Dotted pattern]	04	4.4-6 mine muck
4-5		4			0.5 / 1		[Graphic Log: Wavy lines]	05	* Low recovery @ 4-6m
5-6					0.5 / 1		[Graphic Log: Wavy lines]		
6-7									
7-8									
8-9									
9-10									
10-11									
11-12									
12-13									
13-14									
14-15									

EOH = 6m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: _____ 2018 HOLE NO. BMGT-18-11a DIAMETER 4" ELEVATION 395m
 SHIFT HOURS _____ to _____ LOCATION 0519364 m E, 5279950 m N
 GEOLOGIST J. Edwards DRILLER Emile
 MOVE TO HOLE 14:10-14:20 Drill 14:20-14:25
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1	1		Low even	1.5			01	Tailings 0-3m
1									0-1.4 Dark grey fg sand, dry, weak compaction
2	2	2						02	1.4-1.5 " , moist
3									1.5-1.7 " , dry
4									1.7-3 Grey fg sand, wet, weak compaction
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

COMMENTS:

EOH = 3m



**OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG**

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 16 2018

HOLE NO. BMGT-18- 68 DIAMETER 4" ELEVATION 395m

SHIFT HOURS
_____ to _____

LOCATION 0519325mE, 5279949mN

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS

MOVE TO HOLE 14:25-14:40 Drill 14:40-14:55

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			Low even	1.5 / 1.5		[Dotted pattern]	01	Tailings 0-3.36m 0-0.8 Dark grey fg sand, dry, weak lumpy silt, weak compaction
2	2				1.5 / 1.5		[Dotted pattern]	02	
3				Hard even	0.36 / 0.36		[Dotted pattern]	03 (1.36m)	
4									3-3.36 Dark grey fg sand, moist-wet, weak compaction
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

EOH = 3.36m, Bedrock below

COMMENTS:



**OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG**

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 16 2018

HOLE NO. BMGT-18- 69 DIAMETER 4" ELEVATION 395m

SHIFT HOURS
_____ to _____

LOCATION 0519321mE 5279950mN

GEOLOGIST J. Edwards DRILLER Emile

MOVE TO HOLE 14:55-15:00 Drill 15:00-15:10

TOTAL HOURS

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1							01	<p>Tailings 0-3m</p> <p>0-0.8 Dark grey-brown fg sand, dry, weak compaction</p> <p>0.8-3 Gry fg sand w/ weak silt, occasional small lenses</p> <p>3-3.1 Peat</p> <p>3.1-4.14 Till</p> <p>EOH = 4.14m, Bedrock below</p>
2	2						02		
3	3						03		
4							04 (1.14m)		
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 16 2018 HOLE NO. BMGT-18-70 DIAMETER 4" ELEVATION 395m
 SHIFT HOURS _____ LOCATION 0519352 m E, 579926 m N
 _____ to _____ GEOLOGIST J. Edwards DRILLER Emile
 TOTAL HOURS _____ MOVE TO HOLE 15:10-15:40 Drill 15:40-16:00
 _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ OTHER _____
 _____ CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			Low even	1.5 / 1.5		[Graphic Log]	01	Tailings 0-3.8 m
2	2	2			1.5 / 1.5		[Graphic Log]	02	0-1.7 Dark grey fg sand, dry, weak compaction. Trace silt lense ~ 20cm
3							[Graphic Log]	03	1.7-3.6 Grey fg sand with weak light grey silt, moist, compact
4	3	3		Bumpy	1.1 / 1.1		[Graphic Log]	04 (0.8m)	3.6-3.8 Grey med sand, compact.
5									3.8-4.1 Peak
6									EOH = 4.1m, Bedrock below
7									
8									
9									
10									
11									
12									
13									
14									
15									

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 16 2018

HOLE NO. BMGT-18-71 DIAMETER 4" ELEVATION 395

SHIFT HOURS
_____ to _____

LOCATION 0519376mE; 5279925mN

GEOLOGIST Edwards DRILLER Emile

TOTAL HOURS

MOVE TO HOLE 16:00 - 16:15 Drill 16:15 - 16:40

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	11			Smooth even	1.5 1.5		[Dotted pattern]	01	Tailings 0 - 7.2m
2	22						[Dotted pattern]	02	0-1.7m Dark grey fg sand, dry, wk compact
3	33						[Dotted pattern]	03	1.7-2.6m Dark grey fg sand, moist, wk compact
4	33						[Dotted pattern]	04	2.6-3.65m Dark grey fg sand, wet, wk compact
5	44						[Dotted pattern]	05	3.65-4.5m Grey vfg sand with mod silt wet, mod-wk comp
6	55			mod Bumpy			[Dotted pattern]	06	4.5-5.5m "Soup" Grey fine grained Sand/silt, wet, non compact
7							[Dotted pattern]	07 (1.2m)	5.5-6m Medium light grey silt w/ vfg sand, wet, wk-mod compaction
8									
9									6-7.2m Grey fg sand w/ wk silt, wet, wk compaction
10									
11									7.2-7.25 Peat
12									7.25-7.5 T.11
13									
14									
15									ECH 7.5m (Bedrock)

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 16 2018

HOLE NO. BMGT-18-72 DIAMETER 4" ELEVATION 396

SHIFT HOURS
_____ to _____

LOCATION 0519398mE - 5279926mN

GEOLOGIST Edwards DRILLER Emile

TOTAL HOURS

MOVE TO HOLE 16:40 - 17:00 Drill 17:00 - 17:15

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	11			Smooth even	1.5 / 1.5		[Dotted pattern]	01	Tailings 0 - 6.54m
2	22						[Dotted pattern]	02	0-1m Dark grey fg sand, dry, wk compaction.
3	33						[Dotted pattern]	03	1-3.2m Dark grey fg sand, dry, wk compaction
4							[Dotted pattern]	04	
5	44						[Dotted pattern]	05	3.2-5.4m Grey fg sand, wet, wk-lor compaction, wk silt.
6							[Dotted pattern]	06	5.4-6.54 Grey silt, wet, mod compact
7	55			Hard even	1 / 0.64		[Horizontal lines]	07 (0.64)	contains some v. fg sand.
8									6.54-6.64 Till
9									
10									
11									
12									
13									
14									
15									

EOH = 6.64m (Bedrock)

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 16 2018

HOLE NO. BMGT-18-73 DIAMETER 4" ELEVATION 397

SHIFT HOURS
_____ to _____

LOCATION 0519425 mE ; 5279925 mN

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS

MOVE TO HOLE 17:15-17:20 Drill 17:20-17:45

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			Smooth even	1.5 / 1.5		[Graphic Log]	01	Tailings 0-8.44m
2	2	2					[Graphic Log]	02	0-4.9m Dark grey fine grained sand, dry, wk compaction w/ compact lumpy inclusions of silt rich sand
3	3	3				[Graphic Log]	03		
4	4	4				[Graphic Log]	04		
5	5	5					[Graphic Log]	05	4.9-8m Grey fg sand w/mod silt, wet, mod compaction
6							[Graphic Log]	06	8-8.4m Light grey laminated silt/clay, moist, compact.
7							[Graphic Log]	07 (1m)	8.4-8.44m Grey fg sand, moist, wk compaction
8	6			hard even	1.5 / 0.94		[Graphic Log]	08 (1.44m)	
9									
10									
11									
12									
13									
14									
15									

ECIT = 8.44m (Bedrock)

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 17 2018

HOLE NO. BMGT-18- 74 DIAMETER 4" ELEVATION 398m

SHIFT HOURS
_____ to _____

LOCATION 0519449mE ; 5279925mN

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS

MOVE TO HOLE 7:30-8:30 DNI! 8:30-9:10

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1			Low even	1.5 / 1.5			01	Tailings 0-12.7m
1	2							02	0-3.2m Grey fg sand, dry, wk compaction silt lense @ 0.2m
2	3							03	3.2-3.3m Light grey green silt lense, compact, moist.
3	4							04	3.3-5.6m Same as 0-3.2m
4	5							05	5.6-10.3m Grey fg sand w/mod silt, damp, mod compaction
5	6							06	
6	7							07	10.3-11.8m Light grey silt, moist mod compaction
7	8							08	
8	9							09	11.8-12.1m Dark grey fine grained sand, moist, wk compaction
9	10							10	12.1-12.7 Light grey silt, moist, compact
10	11							11	
11	12							12	12.7-12.75 Till
12	13			bumpy	1.5 / 0.75		Δ° Δ°	13 (0.2m)	
13									
14									
15									

EOH = 12.75m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 16 2018

HOLE NO. BMGT-18- 75 DIAMETER 4" ELEVATION 399

SHIFT HOURS
_____ to _____

LOCATION 0519474 ; 5279924 mN

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS

MOVE TO HOLE 9:05-9:45 (downline) move: 9:45-9:50 Dr. 11:50 to 10:50

MECHANICAL DOWN TIME _____

CONTRACT HOURS

DRILLING PROBLEMS
OTHER 15ft run for run 6 due to low recovery

CONSUMABLES on first 10ft attempt

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1			low even	1.5 / 1.5			01	Tailings 0-17.5m
1								02	0-5.6m Dark grey fg sand, dry, wk compaction
2	2							03	5.6-7.0m Same as previous but w/ mod compact silty lumps within
3	3							04	
4								05	7-9.5m Grey fg sand w/ mod silt, wet, low-mod compact
5	4							06	9.5-10m Light grey silt, moist, compact
6	5							07	10-11m Grey fg sand, wet, wk compaction.
7								08	11-11.3m Same as 9.5-10m
8	6							09	11.3-12m Grey fg sand, wet, wk comp
9	7							10	12-15m No Recovery "Soup" for first 10ft in 15ft run.
10								11	15-16m "Soup"; silty water
11	8							12	16-16.6m Grey fg sand, moist, wk compaction
12	7								16.6-16.8m Peat (probable rip up portea)
13									16.8-17.5m Light grey silty sand, wet mod-wk compaction
14									17.5-18.2 Peat
15									

COMMENTS:

18.2-18.42 T.11

EOH = 18.42m



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 16 2018

HOLE NO. BMGT-18-75 DIAMETER 4" ELEVATION 399

SHIFT HOURS
_____ to _____

LOCATION _____
GEOLOGIST _____ DRILLER _____

TOTAL HOURS

MOVE TO HOLE _____
MECHANICAL DOWN TIME _____

CONTRACT HOURS

DRILLING PROBLEMS _____
OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
11								11	
12	79				1.0			12	
13									
14	10				1.5				No recovery "Soup"
15	11				1.5			13	
16					1.5			(1.5m)	
17	812							14	
18	13							(0.8m)	
19									
20	914								
21									
22									
23									
24									
25									

Sample #14 (16.5-16.6m, 16.8-17.5m)

EOH = 18.42m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 17 2018

HOLE NO. BMGT-18- 76 DIAMETER 4" ELEVATION 400

SHIFT HOURS
_____ to _____

LOCATION 0519500mE ; 5274926mN

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS

MOVE TO HOLE 10:50 - 11:05 Drill: 11:10 - 12:00

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			low even	1.5 / 1.5		[Graphic Log]	01	Tailings 18.8m 0-2m Dark grey fg sand, dry, wk compaction.
2	2			Hard even			[Graphic Log]	02	
3	3			low even			[Graphic Log]	03	2-4.5m Grey fg sand, moist, low comp.
4	3			low even			[Graphic Log]	04	4.5-6.75 Grey fg sand, dry, wk compaction
5	4						[Graphic Log]	05	6.75-7.2 Grey fg sand w/ minor silt, damp, compact.
6	5						[Graphic Log]	06	
7	5						[Graphic Log]	07	7.2-7.5 Grey fg sand, dry, wk compaction.
8	6						[Graphic Log]	08	7.5-10.5 Grey fg sand, wet, wk compaction, minor silt.
9	6						[Graphic Log]	09	
10	7						[Graphic Log]	10	10.5-11.4 Grey silty fg sand, damp, med low compaction
11	8						[Graphic Log]	11	
12	7				3/10		[Graphic Log]	12	
13							[Graphic Log]		
14	10						[Graphic Log]		
15							[Graphic Log]		

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 17 2018

HOLE NO. BMGT-18- 76 DIAMETER 4" ELEVATION _____

SHIFT HOURS _____ to _____

LOCATION _____

TOTAL HOURS _____

GEOLOGIST _____ DRILLER _____

MOVE TO HOLE _____

CONTRACT HOURS _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
11				low even			[Symbol]	11	11.4 - 12 m Light grey sand/silt, moist, compact.
12	79						[Symbol]	12	12-15 m No recovery "Soup"
13					0/3.2		[Symbol]	13	15-15.5 Light grey silt, wet, moderate compaction.
14	61						[Symbol]	14	15.5-16.8 Dark grey fg sand w/ wk silt, med compact.
15	811				2/1.6		[Symbol]	15	16.8-17.8 Light grey vfg sandy silt, moist, compact.
16							[Symbol]	16	17.8-18.6 Dark grey moist fg sand med low compaction.
17	21						[Symbol]	17	18.6-18.8 m Light grey silt, wet, med-low compaction
18	93						[Symbol]	18	18.8-21 Peat.
19	51						[Symbol]	19	
20							[Symbol]	20	
21							[Symbol]	21	
22							[Symbol]	22	
23							[Symbol]	23	
24							[Symbol]	24	
25							[Symbol]	25	

EOH = 21m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 17th 2018

HOLE NO. BMGT-18- 77 DIAMETER 4" ELEVATION 402

SHIFT HOURS
_____ to _____

LOCATION 0519526mE ; 5279925mN

TOTAL HOURS

GEOLOGIST J. Edwards DRILLER Emile

CONTRACT HOURS

MOVE TO HOLE 13:00 - 13:10 Drill: 13:10 - 13:55

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0-1.5	1			low even	1.5 / 1.5		[Graphic Log]	01	Tailings 0-15m
1-2	2	2					[Graphic Log]	02	0-3 Dark grey fg sand, dry w/ some moist lumps, weak compaction
2-3	3	3					[Graphic Log]	03	3-4.7m Dark grey fg sand, damp-dry w/ lumpy silt, wk low compaction
3-4.7	4						[Graphic Log]	04	
4.7-5.1	5	4					[Graphic Log]	05	4.7-5.1m Grey sandy silt, moist, compaction
5.1-6.8	5	5					[Graphic Log]	06	5.1-6.8m Dark grey fg sand, dry, non compact.
6.8-8	6						[Graphic Log]	07	
8-9	6						[Graphic Log]	08	6.8-8m Grey fg sand, wet, low compaction
9-11.75	7						[Graphic Log]	09	8-9m Grey silty sand to sandy silt, moist, mod compaction
11.75-12	7						[Graphic Log]	10	9-11.75 Some as 6.8-8m
12-13.5	7						[Graphic Log]	11	11.75-12m Light grey silt, compact, moist.
13.5-14.2	7						[Graphic Log]	12	12-13.5m "Scup" silty water w/ silty lumps.
14.2-15	8						[Graphic Log]	13	13.5-14.2m Light grey silt/clay, wet, mod compaction
15-15.7	8						[Graphic Log]	14	14.2-15m Grey fg sand, wet, wk compaction
	8						[Graphic Log]	15	15-15.7 Till

COMMENTS:

EOL = 15.7m



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 2018 HOLE NO. BMGT-18-78 DIAMETER 4" ELEVATION 402
 SHIFT HOURS LOCATION 0579525mE, 5279900mN
 _____ to _____ GEOLOGIST S. Edwards DRILLER Emile
 TOTAL HOURS MOVE TO HOLE 13:55 - 14:10 Drill: 14:10 - 14:35
 _____ MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 CONTRACT HOURS OTHER _____
 _____ CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
									Tailings: 0-9.9m
1	1			low even				01	0-4.5 Dark grey, Fg Sand, dry, non-compact.
2	2							02	4.5-5.7 " but slightly moist, mod-low compaction
3	3							03	5.7-6.2 Grey Sand with moderate light grey silt, moist, mod. compaction.
4								04	
5	4							05	6.2-8 Dark grey, Fg Sand weak silt wet low compaction.
6								06	
7								07	8-9 Dark grey, Fg Sand weak silt moist to wet, med. compact
8	6							08	9-9.9 Dark grey, Sandy silt.
9								09	
10	6	7						10	9.9-10.1 Till
10.1 EOH									
11									
12									
13									
14									
15									

10.1 EOH
Bedrock

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 17 2018 HOLE NO. BMGT-18- 79 DIAMETER 4" ELEVATION 399
 SHIFT HOURS _____ LOCATION 0519 475 mE, 5229900 mN
 _____ to _____ GEOLOGIST Edwards DRILLER Emile
 TOTAL HOURS _____ MOVE TO HOLE 14:35 - 14:50 Drill: 14:50 - 15:33
 _____ MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
Tailings: 0 - 14.4m									
1	1			Low even	1.5 / 1.5			01	0-4.6 Dark grey, Fg sand, dry, non comp.
2	2							02	4.6-4.7 Lense of light grey silt, moist, compact.
3	3							03	4.7-7.3 Dark grey, Fg sand dry, non comp.
4								04	7.3-9.4 Grey, Fg sand, moist, med. comp, wk silt
5	4							05	9.4-9.5 Light grey silt, moist compact.
6								06	9.5-12 Dark grey, Fg sand weak silt moist, med. comp.
7								07	
8	6							08	12-13.5 "Soup" mostly silty water with some Fg. sand non comp. fully saturated.
9								09	
10	6							10	13.5-14.4 Light grey, sandy silt, moist, compact
11	8							11	14.4-15 Till
12								12	
13	7				1.5 / 1.5			13 (1.3m)	
14					1.5 / 1.5			14 (90cm)	
15									

EOH @ 15m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 16 2018 HOLE NO. BMGT-18-15a DIAMETER 4" ELEVATION 399
 SHIFT HOURS _____ LOCATION 0579453 ME, 5229806 MN
 _____ to _____ GEOLOGIST Edwards DRILLER Emile
 TOTAL HOURS _____ MOVE TO HOLE 15:30 - 15:40 Drill 15:40 - 15:50
 _____ MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1			Low even	1.5 / 1.5				Tailings: 0-6m
1								01	0-2.7 Dark grey, Fg Sand, Non Compact, dry.
2	2	1						02	2.7-5.5 " But moist, wk-mad. Comp, med silt
3	3	3						03	5.5-6 Dark grey, Fg Sand, moist, lumpy med. Cor.
4								04	
5	4	4						05	
6								06	EOT @ 6m Only required top 6 samples to be re-done.
7									
8									
9									
10									
11									
12									
13									
14									
15									

COMMENTS: Redo hole due to short sample sizes ~ 3m East of BMGT-18-15



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 17 2018

HOLE NO. BMGT-18-80 DIAMETER 4" ELEVATION 398

SHIFT HOURS
_____ to _____

LOCATION 0579426mE, 5279901mN

GEOLOGIST Edwards DRILLER Emile

TOTAL HOURS

MOVE TO HOLE 15:55 - 16:05 Drill: 16:05 - 16:30

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER 10 Sample when we should have 9.

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
									Tailings: 0-9.2m
1	1			low even	1.5/1.5			01	0-1.6 Dark grey, Fg Sand, dry, Weak Comp.
2	2							02	1.6-4.9 Dark grey, Fg Sand, wk moisture, wk lumpy Comp.
3	3							03	4.9-5.5 Grey, Fg Sand, wk Silt wet, low wk med' comp.
4								04	
5	4							05	5.5-6 Dark grey, Fg Sand, dry to wk moist, wk Comp.
6								06	6-6.8 Dark grey, Silty Sand, wet, med. Comp.
7								07	6.8-7.5 Grey, Sandy Silt, moist, Compact.
8	6							08	7.5-9.2 Grey, Silty Sand, wet, wk Comp
9								(09) 9.2-9.59 Till	
9	6	7			1.5/0.59	2000		10 (costm)?	
10									EOH 9.59 in till
11									
12									
13									Sample 10 likely overflow, wash in. recovery from 1.5/0.59m in run #6.
14									
15									

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 16 2018

HOLE NO. BMGT-18-81 DIAMETER 4" ELEVATION 396

SHIFT HOURS
_____ to _____

LOCATION _____

GEOLOGIST Edwards DRILLER Emik

TOTAL HOURS

MOVE TO HOLE 16:30 - 16:50 Drill: 16:50 - 17:00

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
									Tailings: 0.05 - 4.5m
1	1			low even				01	0-0.05 Organics
2	2							02	0.05-1.7 Dark grey, dry to moist, F-g Sand, non comp.
3	3							03	1.7-4 Grey, F-g Sand, wet, Patchy mod-wrk comp.
4	4							04 1.5m Sample	4-4.5 Grey, Silty Sand, moist, occasional lense of laminated silt, mod comp.
5									
6									
7									EOL 4.5m Bedrock
8									
9									
10									
11									
12									
13									
14									
15									

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 17 2018

HOLE NO. BMGT-18- 82 DIAMETER 4" ELEVATION 393

SHIFT HOURS
_____ to _____

LOCATION 0519352mE, 5279875mN

TOTAL HOURS

GEOLOGIST Edwards DRILLER Emile

MOVE TO HOLE 17:00 - 17:20 Drill: 17:20 - 17:30

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
									Tailings: 0.05 - 2.2m
1	1			Smooth Even				01	0-0.05 organics
2								02 2.2m	0.05-0.3 Dark grey/brown, Fg Sand, lumpy med Comp.
3									0.3-1.4 Grey Silty Sand, Wk low comp.
4									1.4-1.7 Dark grey/brown, Fg Sand, lumpy med Comp.
5									1.7-2.1 Grey Silty Sand, wet, low comp.
6									2.1-2.2 light grey silt w/it wk sand.
7									2.2-2.33 Brown fill.
8									
9									
10									
11									
12									
13									
14									
15									

EOH @ 2.33m
Bedrock

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept. 18 2018

HOLE NO. BMGT-18- 83 DIAMETER 4" ELEVATION 396 m

SHIFT HOURS
_____ to _____

LOCATION 0519376 mE 5279874 mN

TOTAL HOURS

GEOLOGIST Jon Edwards DRILLER Emile

CONTRACT HOURS

MOVE TO HOLE 7:30 - 8:00 Drill: 8:00 - 8:15

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1	1		Low Even	1.5/5		[Graphic Log: 0-0.1m]	01	Tailings 0 - 3.63 m
0.1							[Graphic Log: 0.1-1.7m]	02	0 - 0.1 m organics; grass/roots
1.7	2	2					[Graphic Log: 1.7-3.2m]	03	0.1 - 1.7 m grey, f.g. sand weak/low silt low compaction, moist
3.2	3	3		mod uneven			[Graphic Log: 3.2-3.5m]	04 (0.5m)	1.7 - 3.2 m grey, fg. silty sand, wet non compact
3.5							[Graphic Log: 3.5-3.63m]		3.2 - 3.5 m light grey, silt, moist compact
3.63							[Graphic Log: 3.63m]		3.5 - 3.63 dark brown, silty till
									3.63 - Bedrock or Boulder
									EOH = 3.63 m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept. 18 2018

HOLE NO. BMGT-18- 84 DIAMETER 4" ELEVATION 396 m

SHIFT HOURS
_____ to _____

LOCATION 0519399 mE 5279875 mN

GEOLOGIST Edwards DRILLER Emile

TOTAL HOURS

MOVE TO HOLE 8:15 - 8:40 Drill: 8:40 - 9:05

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1			low even	1.5 1.3		[Hand-drawn log symbols]	01	Tailings: 0 - 4.72 m
1							[Hand-drawn log symbols]	02	0 - 0.1 m organics; grass/roots
2	2						[Hand-drawn log symbols]	03	0.1 - 3.0 m grey, f.g. sand with weak silt, dry → damp
3							[Hand-drawn log symbols]	04	weak/low compaction
4	3						[Hand-drawn log symbols]	05	3.0 - 3.8 m grey, f.g. sand w/ weak silt
5				Had even	1.72 1.72		[Hand-drawn log symbols]	(0.72m)	wet, non-compact
6									3.8 - 4.0 m light grey silt, wet, weak to moderately compact
7									4.0 - 4.5 m grey, f.g. sand w/ weak silt wet, low compaction
8									4.5 - 4.72 m light grey, laminated silt moist, medium compaction
9									4.72 m Bedrock
10									
11									
12									E.O.H. = 4.72 m
13									
14									
15									

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept. 18 2018

HOLE NO. BMGT-18- 85 DIAMETER 4" ELEVATION 397m

SHIFT HOURS
_____ to _____

LOCATION 0519425 mE 5279875 mN

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS

MOVE TO HOLE 9:00 - 9:10 Drill 9:10 - 9:30

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			Low Even	1.5 1.5		[Symbol]	01	Tailings: 0 - 9.23 m
2	2						[Symbol]	02	0 - 0.6m grey, f.g. sand, dry, non-compact
3	3						[Symbol]	03	0.6 - 1.0m grey, f.g. sand with lumps of light grey silt, moderately compact.
4							[Symbol]	04	1.0 - 3.4m dark grey, f.g. sand, dry non-compact
5		4					[Symbol]	05	
6							[Symbol]	06	3.4 - 4.6m dark grey f.g. sand, wet weakly compact
7	4	5					[Symbol]	07	4.6 - 5.1m grey, silt, moist, moderately compact.
8		6					[Symbol]	08	5.1 - 8.2m grey, f.g. sand, wet, weakly compact
9							[Symbol]	09 (1.23)	8.2 - 9.23m light grey, silt, moist, compact
10	5	7		Mod Even			[Symbol]		9.23m Bedrock.
11									
12									
13									E.O.H. = 9.23m
14									
15									

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept. 18 2018

HOLE NO. BMGT-18- 86 DIAMETER 4" ELEVATION 397

SHIFT HOURS
_____ to _____

LOCATION 519450 mE 5279875 mN

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS

MOVE TO HOLE 9:30 - 9:45 Drill 9:45 - 10:10

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			low, even	1.5 / 1.5		[Dotted pattern]	01 (1.5m)	Tailings: 0-5.0m Grey, f.g. sand, dry, non-compact
2	2						[Dotted pattern]	02 (1.5m)	5.0-5.5m Grey, f.g. sand with moderate silt, moderately compact
3	3						[Dotted pattern]	03	5.5-8.8m Dark grey, f.g. sand, wet weakly compact
4							[Dotted pattern]	04	8.8-9.0m Dark grey, f.g. sand, moist wet, weakly compact.
5		5					[Dotted pattern]	05	9.0-10.5m Grey, f.g. sand with weak silt, wet, weakly compact
6	4	5					[Dotted pattern]	06	10.5-10.6m light grey, silt, moist compact
7							[Dotted pattern]	07	10.6-10.8m grey, f.g. sand, wet, non-compact
8		6					[Dotted pattern]	08	10.8-11.0m light grey, silt, moist, compact
9	5	7					[Dotted pattern]	09	11.0-12.0m Grey v.f.g silty sand, moist moderately compact
10							[Dotted pattern]	10	
11		8					[Dotted pattern]	11	
12	6	9					[Dotted pattern]	12	12.0-13.9m Peat
13							[Dotted pattern]		13.9m Bedrock
14		10		Hard even			[Dotted pattern]		
15									E.O.H. = 13.9m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept. 18 2018

HOLE NO. BMGT-18- 87 DIAMETER 4" ELEVATION 400

SHIFT HOURS _____ to _____

LOCATION 0519475 mE, 5279876

GEOLOGIST J. Edwards DRILLER Emile

MOVE TO HOLE 10:10 - 10:30 Drill: 10:30

TOTAL HOURS _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1		low, even	1.5 / 1.5		[Dotted pattern]	01	<p>Tailings:</p> <p>0.0 - 1.5 m: Dark grey, f.g. sand, dry weakly compact.</p> <p>1.5 - 1.7 m: Dark grey, f.g. sand, wet weakly compact</p> <p>1.7 m - 6.2 m: Grey, f.g. sand, dry weakly compact</p> <p>6.2 - 7.5 m: Grey, f.g. sand with weak silt, moist, moderately compact</p> <p>7.5 - 11.6 m: Grey, f.g. sand with moderate silt, wet, weakly compact</p> <p>11.6 - 11.8 m: light grey silt, with v.f.g. sand, moist, compact</p> <p>11.8 - 11.95 m: Dark grey, f.g. sand dry, weakly compact</p> <p>11.95 - 12.32: till w/ wood debris at contact</p> <p>E.O.H. = 12.32 m</p>
2	2	2					[Dotted pattern]	02	
3	3	3					[Dotted pattern]	03	
4	4	4					[Dotted pattern]	04	
5	4	4					[Dotted pattern]	05	
6	5	5					[Dotted pattern]	06	
7	5	5					[Dotted pattern]	07	
8	6	6					[Dotted pattern]	08	
9	6	7					[Dotted pattern]	09	
10	7	7					[Dotted pattern]	10	
11	8	8					[Dotted pattern]	11	
12	7	9		Hard uneven			[Dotted pattern with wood debris]	12 (0.95)	
13									
14									
15									

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 18 2018

HOLE NO. BMGT-18- 88 DIAMETER 4" ELEVATION 402

SHIFT HOURS
_____ to _____

LOCATION 31950 mE 5279876 mN

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS

MOVE TO HOLE 11:00 - 11:20 drill: 11:20 - 12:00

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			smooth, moderately hard.	15 / 15			01	<p>Tailings: 0 - 11.3 m</p> <p>0.0 - 0.6m: Dark grey, f.g. sand, dry weakly compact</p> <p>0.6 - 0.8m: Grey, silty sand, moist moderately compact.</p> <p>0.8 - 3.2m: Dark grey, f.g. sand, dry weakly compact</p> <p>3.2 - 3.4m: same as previous but silty moderately compact.</p> <p>3.4 - 4.5m: dark-grey, f.g. sand, dry weakly compact</p> <p>4.5 - 4.9m: dark-grey, f.g. sand w/ moderate silt, dry, moderate to low compact</p> <p>4.9 - 7.5m: Grey, f.g. sand, wet, weakly compact.</p> <p>7.5 - 8.8m: grey sandy silt, moist, moderately compact</p> <p>8.8 - 9.8m: Grey, f.g. sand, silty, wet weakly compact</p> <p>9.8 - 10.5m: light grey silt, moist, compact</p> <p>10.5 - 10.8m: Dark grey, f.g. sand, moist, moderately compact.</p> <p>10.8 - 11.3: light grey silt, moist, compact.</p> <p>E.O.H. = 11.30 m.</p>
2	2			smooth even				02	
3	3							03	
4	4							04	
5	4							05	
6	5							06	
7	5							07	
8	6							08	
9	6							09	
10	7							10	
11	8							11 (1.3m)	
12				Hard even					
13									
14									
15									

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 18 2018 HOLE NO. BMGT-18- 89 DIAMETER 4" ELEVATION 400
 SHIFT HOURS _____ LOCATION 519475 mE 5279850 mN
 _____ to _____ GEOLOGIST J. Edwards DRILLER Emile
 TOTAL HOURS _____ MOVE TO HOLE 12:00 - 12:20 Drill 12:20 - 12:45
 _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ OTHER _____
 _____ CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1		low even	1.01 1.5		[Dotted pattern]	01	<p>Tailings:</p> <p>0 - 3.5 m: Dark grey, f.g. sand, dry weakly compact</p> <p>3.5 - 6.0 m: Grey, f.g. sand, wet weakly compact.</p> <p>6.0 - 6.9 m: Dark grey, f.g. sand, weak to moderate silt, moist to wet, moderately compact.</p> <p>6.9 - 7.2 m: Grey, silt, moist, compact</p> <p>7.2 - 8.8 m: Grey, f.g. sand wet, weakly compact</p> <p>8.8 - 9.0 m: Grey sandy-silt, moist moderately compact</p> <p>9.0 - 10.2 m: Dark grey, f.g. sand, moist low compaction.</p> <p>10.2 - 10.5 m: light brown till.</p> <p>E.O.H. 10.5 m</p>
2	2	2					[Dotted pattern]	02	
3	3	3					[Dotted pattern]	03	
4							[Dotted pattern]	04	
5		5					[Dotted pattern]	05	
6	4	5					[Dotted pattern]	06	
7							[Dotted pattern]	07	
8		6					[Dotted pattern]	08	
9	5	7					[Dotted pattern]	09	
10							[Dotted pattern]	10 (1.2m)	
11							[Dotted pattern]		
12							[Dotted pattern]		
13							[Dotted pattern]		
14							[Dotted pattern]		
15							[Dotted pattern]		

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 18 2018

HOLE NO. BMGT-18-90 DIAMETER 4" ELEVATION 396

SHIFT HOURS
 _____ to _____

LOCATION 0519 425 m E 5279849 m N

GEOLOGIST Edwards DRILLER Emile

TOTAL HOURS

MOVE TO HOLE 13:30 - 13:45 Drill 13:45 - 14:23

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1	1		Low even	1.5 / 1.3		[Dotted pattern]	01	Tailings 0-13m
1							[Dotted pattern]	02	0.0-2.5 Dark grey fine sand, dry, weak compaction
2	2	2					[Dotted pattern]	03	2.5-3.2 Dark grey, fine sand, damp, weak-moderate compaction
3							[Dotted pattern]	04	3.2-6.0 Grey, fine sand with moderate silt, wet, weak compaction
4	3	3					[Dotted pattern]	05	6.0-9.0 Grey, very fine grained sand with moderate silt, wet, weak compaction
5			4				[Dotted pattern]	06	9.0-10.0 No recovery "Soup"
6	4	5					[Dotted pattern]	07	10-10.6 Light grey, silt, moist, compact
7							[Dotted pattern]	08	10.6-13.0 Dark grey, fine sand with weak silt, moist, moderate-weak compaction
8							[Dotted pattern]	09	13-15.0 Peat
9	5	7			0.5 / 1.5		[Dotted pattern]	10	EOH 15m
10							[Dotted pattern]	11	
11					1.5 / 1.5		[Dotted pattern]	12	
12	6	9					[Dotted pattern]		
13							[Dotted pattern]		
14							[Dotted pattern]		
15							[Dotted pattern]		

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 18 2018

HOLE NO. BMGT-18- 91 DIAMETER 4" ELEVATION 395

SHIFT HOURS
_____ to _____

LOCATION 0519376 m E 5279851 m N

GEOLOGIST Edwards DRILLER Emile

TOTAL HOURS

MOVE TO HOLE 14:25 - 14:45 Drill 14:45 - 15:00

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
									Tailings 0.1-4.87m
1	1			Low Even	1.5 / 1.5		[Graphic Log]	01	0-0.1 Brown dirt with organics and grass roots
2	2			↓ Hard even	↓		[Graphic Log]	02	0.1-0.3 Dark grey, fine sand, dry, weak compaction
3							[Graphic Log]	03	0.3-0.7 Grey, silty fine sand, moist, compac
4	3						[Graphic Log]	04	0.7- 2 Grey, fine sand, dry, moderate compaction
5	4						[Graphic Log]	05	2-3.8 Grey, silty sand, moist, compact
6								(0.87m)	3.8-4.87 Grey, fine sand, wet, weak compaction
7									EOM 4.87m - Bedrock
8									
9									
10									
11									
12									
13									
14									
15									

COMMENTS:



**OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG**

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 18 2018 HOLE NO. BMGT-18-92 DIAMETER 4" ELEVATION 391
 SHIFT HOURS _____ LOCATION 0519450 m E 5279700 m N
 _____ to _____ GEOLOGIST Edwards DRILLER Emile
 TOTAL HOURS _____ MOVE TO HOLE 15:00 - 15:30 Drill 15:30 - 16:00
 _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1	1		Smooth Even	1.5 / 1.3		[Pattern]	01	Tailings 0 - 9.75 m
1							[Pattern]	02	0.0 - 0.6 Dark grey, fine sand, weak compaction
2	2	2					[Pattern]	03	0.6 - 0.8 Dark brown-grey, silty sand, moist, compact
3	3	3					[Pattern]	04	0.8 - 2 Dark grey, fine sand, dry, weak compaction
4							[Pattern]	05	2 - 7.4 Grey, fine grained sand, wet, weak compaction
5	4						[Pattern]	06	7.4 - 7.5 Light grey silt with dark brown soil fragments
6							[Pattern]	07	7.5 - 9.3 Light grey, silty sand, wet, moderate compaction
7							[Pattern]	08	9.3 - 9.75 Light grey silt with minor sand, moist, moderate compaction
8	6						[Pattern]	09	9.75 - 9.92 Mine rock? Angular rock with silt/sand, possible till?
9	5	7		Hard Smooth	1.5 / 0.92		[Pattern]	10 (0.75m)	
10									EOH 9.92 m - Bedrock
11									
12									
13									
14									
15									

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED SONIC DRILL HOLE LOG

Page 1 of 1

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 18 2018

HOLE NO. BMGT-18-93 DIAMETER 4" ELEVATION 392m

SHIFT HOURS
_____ to _____

LOCATION 0519408 mE 5279687 mN

GEOLOGIST Edwards DRILLER Emile

TOTAL HOURS

MOVE TO HOLE 16:00 - 16:30 Drill 16:30 - 17:00

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log	
1	1			Smooth even	1.5 / 1.5		○ ○ ○ ○ ○ ○ ○ ○ ○ ○	01	Tailings 0 - 4.5 m	
2	2			↓ Bumpy Uneven	↓		○ ○ ○ ○ ○ ○ ○ ○ ○ ○	02	0 - 1.2 Grey, fine sand, moist, weak-moderate compaction	
3								○ ○ ○ ○ ○ ○ ○ ○ ○ ○	03	1.2 - 1.5 Grey, fine sand, wet, weak compaction
4	3							○ ○ ○ ○ ○ ○ ○ ○ ○ ○	04	1.5 - 1.9 Grey, fine sand, moist, moderate compaction
5	4							○ ○ ○ ○ ○ ○ ○ ○ ○ ○		1.9 - 2.7 Grey, fine sand, wet, weak compaction
6							○ ○ ○ ○ ○ ○ ○ ○ ○ ○		2.7 - 3.5 Dark grey to black fine sand with weak silt, wet, low-moderate compaction	
7									3.5 - 4.5 Angular gravel mine waste with fine, dark grey sand, wet	
8									4.5 - 5.16 Till	
9									EOH = 5.16 m - Stopped hole in Till	
10										
11										
12										
13										
14										
15										

COMMENTS:

Hole moved ~10-15 m southeast due to large muck pile



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 18 2018

HOLE NO. BMGT-18- 94 DIAMETER 4" ELEVATION 391

SHIFT HOURS
_____ to _____

LOCATION 0519397 mE ; 5279651 mN

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS

MOVE TO HOLE 17:00 - 17:15 Drill: 17:15 - 17:30

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			Low even	1.5 / 1.5			01 (1.5m)	Tailings 0 - 1.5m
2	2			Hard even					0 - 0.1m Organics; grass/roots
3									0.1 - 0.6m Gray fg sand, moist, low compact
4									0.6 - 1.5m Gray fg sand, wet, wk compact
5									1.5 - 1.6m Peat
6									1.6 - 1.75m Till
7									
8									
9									
10									
11									
12									
13									
14									
15									

EOH = 1.75m (Bedrock)

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 19 2018

HOLE NO. BMGT-18-95 DIAMETER 4" ELEVATION 391

SHIFT HOURS
_____ to _____

LOCATION 0519443 mE ; 5279650 mN

GEOLOGIST J. Edwards DRILLER Carle

TOTAL HOURS

MOVE TO HOLE 7:30 - 8:25 8:25 - 8:50

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1			Smooth even	1.5 / 1.5		[Symbol]	01	Tailings 0-12m
1							[Symbol]	02	0-1.9m Dark green grey fg sand, dry, wk compaction.
2	2						[Symbol]	03	1.9-6m Dark grey fg sand, dry, wk compaction.
3							[Symbol]	04	
4	3						[Symbol]	05	6-9.6m Dark grey fg sand, moist, med low compaction
5							[Symbol]	06	
6							[Symbol]	07	9.6-10.3m Dark grey silt w/ wk dark brown peaty soil, moist, compact.
7	4						[Symbol]	08	
8							[Symbol]	09	10.3-10.5m Dark brown peat/soil from floating logs. Partially mixed w/ tailings.
9							[Symbol]	10	
10	5						[Symbol]	11	10.5-12m Grey silty fg sand partially mixed w/ brown peaty soil. moist, med comp.
11							[Symbol]	12	
12							[Symbol]		
13									
14									
15									

EOT = 12m (Bedrock)

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 19 2018

HOLE NO. BMGT-18- 06 DIAMETER 4" ELEVATION 393

SHIFT HOURS _____ to _____

LOCATION 0519472 mE ; 5279644 mN

GEOLOGIST J. Edwards DRILLER Emile

MOVE TO HOLE 8:50 - 9:10 Dr. 11 9:10 - 9:40

TOTAL HOURS _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1			low even	1.5 / 1.3		[Symbol]	01	Tailings 0-11.7m
1							[Symbol]	02	0-2m Dark grey fg sand, dry wk compaction
2	2						[Symbol]	03	2-5m Dark grey fg sand, wet, wk compaction
3	3						[Symbol]	04	
4							[Symbol]	05	5-6.3m Dark grey fg sand, moist-wet med-low compaction
5	4						[Symbol]	06 (1.3m)	6.3-7.5m 95% Dark brown floating bog peat with veils of tailings cutting through.
6							[Symbol]	07	7.5-7.8m Light grey silt w/ 30% peat
7	5						[Symbol]	08	
8							[Symbol]	09	7.8-11.5m Light grey fg sand, wet to moist, wk compaction
9	6						[Symbol]	10	
10							[Symbol]	10 (1.2m)	11.5-11.7m Light grey silt with some peat. Moist to wet, mod compac
11	7						[Symbol]		11.7-11.8 Peat
12							[Symbol]		11.8-12 T. 11
13	8						[Symbol]		
14							[Symbol]		
15							[Symbol]		

EOH = 12.0m

COMMENTS:

Hole moved from 50m spacing to 25m spacing to avoid a forest / outcrop.



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 19 2018

HOLE NO. BMGT-18-97 DIAMETER 4" ELEVATION 393

SHIFT HOURS _____ to _____

LOCATION 0519496 nE ; 5279597 mN

GEOLOGIST J. Edwards DRILLER Emile

MOVE TO HOLE 10:00 - 10:10 Drill: 10:10 - 10:40

TOTAL HOURS _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0-1	1	1		Smooth even	1.5 / 1.5		[Graphic Log]	01	Tailings 0-10m
1-2	2	2					[Graphic Log]	02	0-3m Dark grey fg sand, damp, wk-low compaction
2-3							[Graphic Log]	03	3-5m Same as previous but wet
3-4	3	3					[Graphic Log]	04	5-5.2m Light grey sandy silt, occasional lump of peat for suspected floating bag
4-5		5					[Graphic Log]	05	
5-6							[Graphic Log]	06	5.2-7m Grey fg sand, wet, wk compaction
6-7	4	5					[Graphic Log]	07	7-8.4m Light grey vfg sandy silt, occasional lump of peat.
7-8		6					[Graphic Log]	08 (1.4m)	8.4-8.8m Dark brown peat from suspected floating bag. 5% 8m scale veinlets of tailings cutting through.
8-9							[Graphic Log]	No Sample	
9-10	5	7					[Graphic Log]	09 (1.2m)	
10-11		8					[Graphic Log]		8.8-10m Light grey sandy silt "soup" weak compaction.
11-12				Mod Unass			[Graphic Log]		10-11m Peat w/ veinlets of tailings cutting through
12-13							[Graphic Log]		11-12 Till
13-14							[Graphic Log]		
14-15							[Graphic Log]		

EOT = 12.0m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 19 2018

HOLE NO. BMGT-18- 98 DIAMETER 4" ELEVATION 393m

SHIFT HOURS _____ to _____

LOCATION 0519496 m E ; 5279546 m N

GEOLOGIST J. Edmonds DRILLER Emile

TOTAL HOURS _____

MOVE TO HOLE 10:40 - 11:10 Drill: 11:00 - 12:00

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			low even	1.5 / 1.5		[Symbol]	01	Tailings 0-11.7m
2	2						[Symbol]	02 (1.2m)	0-0.1m Orgones; grass/roots 0.1-1m Grey fg sand, w/wk silt, moist to wet, wk compaction
3	3						[Symbol]	03 (1m)	1-1.5m Dark grey fg sand, wet, weak compaction
4							[Symbol]	no sample	
5	4						[Symbol]	04 (0.8m)	1.5-2.2m Grey silty sand, moist, weak compaction
6	5						[Symbol]	05	2.2-2.8m Dark brown peat from suspected floating bog. Peat contains veinlets of light grey tailings cutting through
7							[Symbol]	06	
8	6						[Symbol]	07	2.8-3.8m Light grey silt, wet, wk compaction
9							[Symbol]	08	
10	7						[Symbol]	09	3.8-4.2m 50/50 Peat w/ lenses, veins of tailings
11	8						[Symbol]	10	4.2-6m Grey silty fg sand, moist, wk comp
12				mod uneven			[Symbol]	11 (0.7m)	6-7.5m Silty "Soup" mostly water
13							[Symbol]		7.5-9m Light grey sandy silt, wet, low compaction
14							[Symbol]		9-11.7m "Soup" silty water with 30-50% silty lumps
15							[Symbol]		11.7-12m Till

COMMENTS:

EOH = 12m



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 19 2018

HOLE NO. BMGT-18-99 DIAMETER 4" ELEVATION 394

SHIFT HOURS _____ to _____

LOCATION 0519531 mE ; 5279549 mN

TOTAL HOURS _____

GEOLOGIST J. Edwards DRILLER Emile

CONTRACT HOURS _____

MOVE TO HOLE 13:00 - 13:20 Drill 13:20 - 14:00

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1		low even	1.5 / 1.5		[Symbol]	01 (1.5)	Tailings 0 - 8.3m
2	2	2			0 / 1.5		[Symbol]	No Recovery	0 - 0.2m Organics ; grass/roots
3									0.2 - 1m Dark grey fg sand, wet, wk compaction, minor silt.
4					1.5 / 1.5		[Symbol]	02 (1.5m)	1 - 1.5m Light grey sandy silt, moist-wet, mod compaction
5								03	1.5 - 3m No recovery "Soup"
6	3	5					[Symbol]	04	3 - 7.1m Light grey silty sand, wet, low compaction, tr inclusions of peat
7								05	
8							[Symbol]	06 (0.8m)	7.1 - 7.7m Dark grey fg sand, dry, weak compaction
9				Mod UNEVEN			[Symbol]		7.7 - 8.3m Light grey silt, moist to wet, low compaction
10									
11									
12									8.3 - 8.5m Brown peat, same seen in previous 3 holes w/ tailings cutting it.
13									
14									8.5 - 9m Till
15									EOH = 9.0m

COMMENTS:

Hole moved west to avoid swamp



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 19 2018

HOLE NO. BMGT-18-100 DIAMETER 4" ELEVATION 390 m

SHIFT HOURS _____ to _____

LOCATION 0519452 mE ; 5279602 mN

TOTAL HOURS _____

GEOLOGIST J. Edwards DRILLER Emile

CONTRACT HOURS _____

MOVE TO HOLE 14:00 - 14:20 Drill: 14:20 - 15:05

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			Smooth even	1.5 1.5		[Graphic Log]	01	Tailings 0-11.6m
2	2						[Graphic Log]	02	0-1.5m Dark grey fg sand, dry wk compaction
3	3						[Graphic Log]	03	1.5-3m Dark grey fg sand, wet wk compaction
4							[Graphic Log]	04	
5	5						[Graphic Log]	05	3-7.9m Dark grey fg sand, moist-wk mod-low compaction
6							[Graphic Log]	06	
7	4	5					[Graphic Log]	07	7.9-8.4m 50/50 light grey silty tailings cross cutting Brown peat (floating bog)
8							[Graphic Log]	08	
9	5	7					[Graphic Log]	09	8.4-11.1m Grey silty vfg sand, moist, mod-low compaction, occasional inclusion of peat (floating bog)
10							[Graphic Log]	10	
11							[Graphic Log]	11	11.1-11.6m Light grey sandy silt, moist, compact
12	6	9					[Graphic Log]	12 (0.6m)	11.6-13.6m Dark Brown Peat/soil w/ veins/veinlets of tailings cutting st.
13							[Graphic Log]	13	13.6-13.96 Till
14	10			mod uneven			[Graphic Log]		
15							[Graphic Log]		

EOH = 13.96m (Bedrock)

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 19 2018

HOLE NO. BMGT-18-101 DIAMETER 4" ELEVATION 390

SHIFT HOURS _____ to _____

LOCATION 0519447mE ; 3279550mN

TOTAL HOURS _____

GEOLOGIST J. Edwards DRILLER Emile

CONTRACT HOURS _____

MOVE TO HOLE 15:05 - 15:30 Drill: 15:30 - 16:04

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			Smooth even	1.5		[Symbol]	01	Tailings 0-12m
2	2				1.5		[Symbol]	02	0-0.2m Organics ; grass/roots
3	3						[Symbol]	03	0.2-0.7m Dark grey fg sand, moist, compact
4	3						[Symbol]	04	0.7-7.8m Light grey silty sand, moist w/ low compaction, occasional fragments of dark brown peat/soil.
5	4						[Symbol]	05	7.8m-8.2m Brown peat/soil w/ 25% light grey silty tailings in vert
6	4						[Symbol]	06	
7	5						[Symbol]	07	8.2-9m Light grey silty sand, moist, mod compaction, mixed w/ brown soil/peat (8.9-9m)
8	5						[Symbol]	08 (0.8m)	
9	6						[Symbol]	09 (0.8m)	9-10.6m Light grey silt heavily mixed w/ brown peat/soil (flaky bog)
10	7						[Symbol]	10	10.6-11.9 Light grey sandy silt w/ occasional sand pocket, wet-mid mod-low compaction
11	8						[Symbol]	11	
12	8						[Symbol]	12	11.9-12 Light grey sand w/ silt, moist, compact.
13	9			0/0.85	How even		[Symbol]		12-12.85 "Soup", no recovery
14									
15									EOH = 12.85m (Bedrock)

COMMENTS:



**OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG**

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 11 2018 HOLE NO. BMGT-18-01 DIAMETER 4" ELEVATION 395m
 SHIFT HOURS _____ to _____ LOCATION OS19 306m E; 5279998m N
 GEOLOGIST D. Hozyan DRILLER Emile
 MOVE TO HOLE _____ Drill: 10:00 - 11:15
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 OTHER _____
 CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0-1	1	1		low/even	1.5/1.5		[Dotted pattern]	01	0-4.7m Tailings 0-0.9m: grey-green fine sand; dry; weakly compact 0.9-1.2m: grey-green fine sand and silt; dry, moderately compact 1.2-4.0m: grey fine sand moderately compact moist 4.0-4.65m: light grey; very fine sand and silt moderately compact, wet 4.65-6.0m Peat EOH = 6.0m
1-2							[Dotted pattern]	02	
2-3	2	2			1.5/1.5		[Dotted pattern]	03	
3-4	3	3					[Dotted pattern]	04	
4-5	3	3			3/3		[Dotted pattern]	05	
5-6	4						[Dotted pattern]		
6-7									
7-8									
8-9									
9-10									
10-11									
11-12									
12-13									
13-14									
14-15									

COMMENTS: ~~07:30-10:00~~ Offload drill and setup
 10:00 - 11:15 Drill



**OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG**

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 11 2018 HOLE NO. BMGT-18-02 DIAMETER 4" ELEVATION 397m
 SHIFT HOURS _____ to _____ LOCATION 0519348mE, 5279999mN
 _____ GEOLOGIST D. Hozyin DRILLER Enile
 TOTAL HOURS _____ MOVE TO HOLE 11:15 - 11:30 ; Drill 11:30 - 12:15
 _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS Poor recovery near bottom of hole
 _____ OTHER _____
 _____ CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			low/even			[Dotted pattern]	01	<p>0-3.0m Tailings</p> <p>0-0.4m : grey-green, sandy weakly compact, dry</p> <p>0.4-2.5m : grey, sandy, moderately compact, moist</p> <p>2.5-3.0m : silt grey, fine sand and silt, non-compact wet</p> <p>3.0m Bedrock</p> <p>EOH = 3.0m</p>
2	1			↓	2.6		[Dotted pattern]	02	
3	2				2.6 3.0		[Dotted pattern]		
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 11 2018

HOLE NO. BMGT-18-03 DIAMETER 4" ELEVATION 401

SHIFT HOURS _____ to _____

LOCATION 0519402 m E ; 5280000 m N

GEOLOGIST D. Hozyan DRILLER Eric

TOTAL HOURS _____

MOVE TO HOLE 12:45 - 13:00 ; Drill : 13:00 - 13:30

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0-1	1			low/even					0-6.8 Tailings
1-2	1						01	01	0-1.1! No recovery
2-3	2						02	02	1.1-2.8m: grey, fine sand, moderately compact, dry
3-4	3						03	03	2.8-6.0m: grey, fine sand and silt, moist
4-5	2						04	04	
5-6	4						05	05	6.0-6.8m: light grey, silt and sand, compact moist
6-7	5			moderate even			06	06	6.8-8.0m: Peat
7-8	3								8.0m: Bedrock
8-9	6			High					
9-10									
10-11									
11-12									
12-13									
13-14									
14-15									

ECH = 8.0m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 11 2018 HOLE NO. BMGT-18- 04 DIAMETER 4" ELEVATION 403 m
 SHIFT HOURS _____ to _____ LOCATION 0519450 mE; 5279998 mN
 GEOLOGIST D. Hozyin DRILLER Emile
 MOVE TO HOLE 13:30-13:45 ; Drill: 13:45-14:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 OTHER _____
 CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			low/ even	1.2 / 1.5		[Hand-drawn log symbols]	01	0.00-5.6m Tailings
2	2	2		↓	1.5 / 1.5		[Hand-drawn log symbols]	02	0-2.5m : grey, fine sand, dry moderately compact
3	3		1.5 / 1.5			[Hand-drawn log symbols]	03	2.5-3m : grey, fine sand and silt, moist, moderately compact	
4	3		1.5 / 1.5			[Hand-drawn log symbols]	04		
5	4	4			1.1 / 1.1		[Hand-drawn log symbols]	05	3.0-3.8m : grey, fine sand, dry moderately compact
6							[Hand-drawn log symbols]	06	3.8-4.5m : light grey, silty with less fine sand, less compact, moist
7									
8									
9									4.5-5.6m : light grey, non-compact fine sand and silt
10									5.6m Retract
11									
12									
13									
14									
15									

COMMENTS:

EOH = 5.6m



OVERBURDEN DRILLING MANAGEMENT LIMITED SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 11 2018HOLE NO. BMGT-18-05 DIAMETER 4" ELEVATION 407m

SHIFT HOURS _____ to _____

LOCATION 0519501 m E; 5279999 m NGEOLOGIST D. Hozyn DRILLER Emile

TOTAL HOURS _____

MOVE TO HOLE 14:30 - 14:45; Drill: 14:45 - 15:00

MECHANICAL DOWN TIME _____

CONTRACT HOURS _____

DRILLING PROBLEMS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0									<p>0 - 5.8m Tailings</p> <p>0 - 1.5m : grey, fine sand, dry moderately compact</p> <p>1.5 - 2.6m : grey fine sand with a larger silt component, compact, dry</p> <p>2.6 - 4.8m : tailings as above but wetter; compact</p> <p>4.8 - 5.8m : light grey, silty with minor sand component, moderately compact</p> <p>5.8 - 6.0m Peat</p> <p>EOT = 6.0m</p>
1	1	1		low / even	1.5 / 1.5			01	
2	2	2		↓	1.5 / 1.5			02	
3	3	3		moderately even	1.5 / 1.5			03	
4				↓	1.5 / 1.5			04	
5	4	4		↓	1.5 / 1.5			05	
6								06	
7									
8									
9									
10									
11									
12									
13									
14									
15									

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 11 2018

HOLE NO. BMGT-18-06 DIAMETER 4" ELEVATION 405m

SHIFT HOURS _____ to _____

LOCATION 0519543 m E; 5280001 m N

GEOLOGIST D. Hozyin DRILLER Emil

TOTAL HOURS _____

MOVE TO HOLE 15:00 - 15:15; Drill: 15:15 - 15:45

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0-1	1	1		low/ even	1.5 / 1.5		0000000000	01	0-2.8m Tailings
1-2							0000000000	02	0-1.5m: grey, fine sand, dry moderately compact
2-3	2	2		High uneven	1.5 / 1.5		0000000000	03	1.5-2.8m: grey, fine sand and silt, moist, moderately compact
3-4									2.8-3.0m Mine waste - broken rock
4-5									
5-6									
6-7									
7-8									
8-9									
9-10									
10-11									
11-12									
12-13									
13-14									
14-15									

COMMENTS:



**OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG**

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 11 2018 HOLE NO. BMGT-18-07 DIAMETER 4" ELEVATION 406m
 SHIFT HOURS _____ to _____ LOCATION 0519545 mE; 5279952 mN
 GEOLOGIST D. Hozgin DRILLER Eric
 MOVE TO HOLE 15:45 - 16:00; Drill: 16:00 - 16:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1			low even	15/15			01	<p>0-8.2m Tailings</p> <p>0-2.1m : grey, fine sand, dry moderately compact</p> <p>2.1-2.9m : light grey, fine sand and silt, moist, compact</p> <p>2.9-7.0m : grey, fine sand, less silt, moist, moderately compact</p> <p>7.0-8.2m : light grey, silty, very moist, non-compact viscous</p> <p>8.2m Bedrock</p> <p>EOH = 8.2m</p>
1								02	
2	2	2						03	
3								04	
4	3	3						05	
5				moderate even	12			06	
6	4	4						07	
7	5	5						08	
8	6	6							
9									
10									
11									
12									
13									
14									
15									

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. - Gowganda Tailings Project

DATE: Sept 11 2018 HOLE NO. BMGT-18-08 DIAMETER 4" ELEVATION _____
 SHIFT HOURS _____ to _____ LOCATION 0519500 m E; 5279950 m N
 GEOLOGIST D. Hozyan DRILLER _____
 MOVE TO HOLE 16:30 - 16:45; Drill: 16:45 - 18:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS Unable to collect sample from 12.2-13.9m - too wet.
 CONTRACT HOURS _____ OTHER Clean and move drill to next site 18:00 - 18:30
 CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1			low/even	1.5 / 1.5		000000	01	<p>0-13.9m Tailings</p> <p>0-1.1m : grey, fine sand, dry weakly compact</p> <p>1.1-4.8m : as above but more compact</p> <p>4.8-5.2m : light grey, silty, moist lumpy, weakly compact</p> <p>5.2-6.7m : grey, fine sand and silt, compact, moist</p> <p>6.7-9.0m : grey fine sand and silt, wet, weakly compact</p> <p>9.0-9.6 : as above but very wet, non-compact, viscous</p> <p>9.6-10.5m : light grey, moderately compact, wet, fine silt laminations</p> <p>10.5-12.2m : grey, weakly compact, fine sand and silt</p> <p>12.2-13.9 : Non-compact, viscous, light grey, very fine sand and silt</p> <p>13.9 Bedrock</p> <p>EDH=13.9m</p>
2				↓			000000	02	
3	2	2		✓	1.5 / 1.5		000000	03	
4				moderate			000000	04	
5				even			000000	05	
6	4	4		↓			000000	06	
7				moderate			000000	07	
8				even			000000	08	
9	6	6		↓			000000	09	
10				↓			000000	10	
11	7	7					000000	11	
12							000000	12	
13	9	9			0 / 1.5		000000		
14	10	10					|||||		
15									

COMMENTS:



**OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG**

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 12 2018

HOLE NO. BMGT-18-0A DIAMETER 4" ELEVATION 399

SHIFT HOURS _____ to _____

LOCATION 0519454mE; 5279952mN

GEOLOGIST J. Edwards DRILLER Emile

TOTAL HOURS _____

MOVE TO HOLE 7:30-8:15 Drill: 8:15-9:15

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1	1		Low/Even	1.5/1.5			01	<p>0-14.1m Tailings</p> <p>0-1.3m: Grey fine sand w/ minor silt; dry; weakly compact</p> <p>5.4-6.9m: Grey fine sand w/ moderate silt; wet; weakly compact</p> <p>6.9-7.5m: Grey fine sand w/ weak silt; very wet; weakly compact</p> <p>7.5-8.0m: Grey fine silt w/ sand; fully saturated "slush"; no compaction.</p> <p>8.0-9.0m: Grey silt w/ weak sand; wet; weakly compact</p> <p>9.0-10.5: No recovery "soup"/silt</p> <p>10.5-11.0: Grey silt; fully saturated; weakly compact.</p> <p>11.0-12.0: Grey silt; fairly moist; compact.</p> <p>12.0-14.1: No recovery "soup" silt.</p> <p>EOH = 14.1m</p>
1	2	2						02	
2	3	3						03	
3	4	4		Low Mod Bumpy/Uneven @ Bottom				04	
4	5	5		Low/Even				05	
5	6	6						06	
6	7	7		Low to Moderate & Even				07	
7	8	8		Low/Even	0/1.5			08	
8	9	9		Mod/Even	1/1.5			09	
9	10	10						No Sample	
10	11	11						10	
11	12	12						11	
12	13	13						No Sample	
13	14	14		Hard/Even					

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Battery Mineral Resources Ltd. – Gowganda Tailings Project

DATE: Sept 12 2018 HOLE NO. BMGT-18- 10 DIAMETER 4" ELEVATION 396
 SHIFT HOURS _____ to _____ LOCATION 0519396mE; 5279948mN
 _____ to _____ GEOLOGIST J. Edwards DRILLER Emile
 TOTAL HOURS _____ MOVE TO HOLE 9:15 - 9:20 Drill: 9:20 - 9:45
 _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Casing No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0	1	1		Low/Even	1.5		[Graphic Log]	01	<p>0-6.15m Tailings</p> <p>0-2.4m: Grey fine sand; Dry; weakly compact; intermittent lenses of silt.</p> <p>2.4-3.0m: Grey silt w/ some sand; moderately wet; weakly compact.</p> <p>3.0-3.6: Grey fine sand; Dry; weakly compact.</p> <p>3.6-5.0m: Grey Sand with moderate silt; wet; weakly compact.</p> <p>5.0-5.7m: Grey fully saturated silty "soup".</p> <p>5.7-6.0m: Grey silt with fine sand; wet; weakly compact.</p> <p>6.0-6.15: Grey fine sand with silt; wet; not moderately compact.</p> <p>EOH = 6.15m</p>
1					1.5		[Graphic Log]	02	
2	2	2			1.5		[Graphic Log]	03	
3	3	3			1.5		[Graphic Log]	04	
4					1.5		[Graphic Log]	05	
5	4	4			1.5		[Graphic Log]	06	
6	5	5					[Graphic Log]		
7							[Graphic Log]		
8							[Graphic Log]		
9							[Graphic Log]		
10							[Graphic Log]		
11							[Graphic Log]		
12							[Graphic Log]		
13							[Graphic Log]		
14							[Graphic Log]		
15							[Graphic Log]		

COMMENTS:

vfg=very fine grained
 fg=fine grained
 fmg=fine to medium grained
 mg=medium grained
 mcg=medium to coarse grained
 d=dark
 m=medium
 l=light
 cpg= course grained
 vcg=very course grained

CA=core axis
 DTA=degrees to core axis
 EOH=end of hole

v wk=very weak
 wk=weak
 wk mod=weak to moderate
 mod=moderate
 mod str=moderate to strong
 str=strong
 v str= very strong

DDH	From_m	To_m	Interval_m	Lithology	Colour	Grain Size	Lithology Description	Structure	Alteration1	Alteration2	Alteration3	Mineral1	Mineral2	Vein1	Vein2
GowGW 18-01D	0	3.18	3.18	Oou overburden general			Overburden not provided								
GowGW 18-01D	3.18	20.04	16.86	Gdi dolerite	grey	mcg	Massive, inequigranular showing variable grain size ranging from fine to coarse grained. Bloches of coarse grained material occur throughout surrounded by largely fine-medium grained diabase. Grain size appears to become more equigranular after 14 m.	Unit is weakly to moderately competent and is crosscut by an abundance of fractures largely filled with chlorite. Rubbly zones occur throughout dominated by gravel sized material.	wk fracture-filling to vein epidote occur sporadically throughout in association with weak carb and possibly serpentine. Dominantly mm-scale to cm-scale.	wk hematite dusting of plagioclase grains. Occurs weakly pervasive throughout. Produces pinkish-red colouration of diabase and appears to be strongest adjacent to veinlets.	wk chlorite occurs as mm-scale fracture fill and typically displays the growth of slicken fibres.	0.5% magnetite occurs disseminated throughout.	0.1% pyrite occurs as mm-scale grains finely disseminated throughout.	4% Chlorite veinlets occur throughout unit at the mm-scale.	0.5% epidote veinlets occur sporadically throughout largely sub-cm scale.
GowGW 18-04	0	1.20	1.2	Oou overburden general			Overburden not provided								
GowGW 18-04	1.2	16.02	14.82	Gdi dolerite	med grey black	fmg	Diabase, homogenous, massive, fine-med grained (0.5-1mm grains), equigranular, a few fractures (mostly cohesive), moderately magnetic, dk mafics slightly finer grained than plagioclase. trace sulphides. First 3.5m are predominantly fine grained (<1mm) almost aphanitic, the rest is phaneritic.	unfoliated, mainly cohesive with a few fractures	wk mod sericite alteration of plg	wk mod pervasive hematite alteration, local veins of stronger staining		trace sulphides disseminated through diabase, most <1mm (most likely pyrite based on colour)		minor mm scale carbonate veins (some are stained pink along contact with host), one small vein is bordered by epidote (extending 1-2cm into host)	
GowGW 18-05D	0	4.26	4.26	Oou overburden general			Overburden not provided								
GowGW 18-05D	4.26	10.00	5.74	Gnu mafic rock (undifferentiated)	Dark grey to black	fg	Fine grained, equigranular, nearly aphanitic mafic. Appears to be chilled margin of dike based on magnetism. Weakly developed foliation at low angle to core axis defined by the alignment of small white specks (possibly plagioclase phenocrysts).	Unit is weakly competent with rubbly zones occurring at 5-6 m and 8-10 m. Fractures typically cut the unit at 30-40 deg. tca. (con. Sets.)	mod epidote occurs as randomly oriented, mm-scale veinlets and fracture fills.	wk minor fracture filling carbonate occurs along fracture faces.		3% Magnetite (?) occurs finely disseminated throughout diabase(?).	0.1% chalcopyrite occurs as anhedral, mm-scale grains finely disseminated throughout.	Epidote veinlets are mm-scale, small fragments (breccia) in epidote veins	
GowGW 18-08D	0	7.82	7.82	Oou overburden general			Overburden not provided								
GowGW 18-08D	7.82	34.63	26.81	Gdi dolerite	medium grey	mg	Diabase, medium to dark grey, massive, equigranular. Downhole, the core becomes slightly more coarse grained from fine-grained (0.5 to 1 mm, locally near aphanitic) near the top of the hole to medium grained (3 to 5 mm) at the bottom of the hole. Magnetic.	Generally, the interval is not competent, commonly broken down interval with locally rubbly zones. Locally slip (slickne lines) commonly associated with epidote, chlorite, carboante veins.	sericite alteration, weak, pale green sericite alteration, more obvious downhole in more coarse-grained diabase, there is aslight pale green hue to the unit.	chlorite alteration, locally between approximately 24 and 28m and the formation of chlorite knots (dark green black that stands out against background)		trace disseminated, fine-grained pyrite down interval	epidote, chlorite, carboante seams/slips, 0.5 to 2 cm in thickness, bright apple green, black and white. Locally with slicken lines. Occuring 70 to 80 degrees to core axis.	thin hairlines carbonate (+/- minor quartz) common between 8 and 9 m	
GowGW 18-09D	0	2.10	2.1	Oou overburden general			Overburden not provided								
GowGW 18-09D	2.10	17.96	15.86	Gdi dolerite	dark grey		equigranular, with gradational increase in grain-size downhole, very grained at contact with mm sized black grains coarsening down hole to medium grained diabase.	generally interval, fractures 55 to 70 degrees to core access locally, con-sets, particularly between 8 to 12 m), slicken lines occur on fracture surfaces.	wk mod epidote veining, cm scale veins to mm scale fracture fill, locally associated with purple (fluorite), particularly common in upper portions of the hole	wk minor, mm scale fracture filling carbonate	wk mod chlorite alteration o mafics and at the salvages of quartz carb veins	0.5% weakly magnetic, not visible to eye	epidote +/- purple minerals, cm scale, fracture fill chlorite; fracture filling quartz carb.		
GowGW 18-10D	0	5.10	5.1	Oou overburden general			Overburden not provided								
GowGW 18-10D	5.1	13.74	8.64	Gdi dolerite	dark grey		massive, fine-grained, equigranular. Red staining of plagioclase grains; likely iron staining.	Rubbly to 7.4 m; abundant, black chlorite filled healed fracture through interval. Interval is weakly competent, breaks along healed fractures. Dominant fracture direction 50 to 60 degrees to core axis.	wk epidote alteration, associated with carbonate	wk mod carbonate alteration, associated with epidote, angular chunks associated with hairline fractures.	wk mod chlorite alteration of pyroxene and mm scale fracture fills	0.75% weakly magnetic	trace finely disseminated pyrite	quartz carbonate-epidote vein, cm to sub-cm scale, with proximal iron staining of plagioclase (up to 4 cm, away)	
GowGW 18-11	0	1	1	Oou overburden general			Overburden not provided								
GowGW 18-11	1	14.99		Gdi dolerite	grey green		medium greenish-grey, medium grained(1 to 4 mm, averaging 1 to 2 mm)generally equigranular with the exception of chlorite knots which can be up to 3 or 4 mm, locally.	Localised minor fracture zones occur down interval with prevalent oxidation on fracture faces within the first 3 m. Major zones occur: from 6 to 7.2 m the interval is pervasively fracture // to core access; from 10.2 m unit is highly rubbly and broken.	mod chlorite alteration of pyroxenes occurs pervasively throughout and along fracture faces.	wk carbonate alteration occurs along fracture faces.		Magnetite is finely disseminated throughout.	1 % Fine, mm-scale fracture filling chlorite veinlets occur throughout.	0.5% fine, mm-scale carbonate veinlets occur throughout.	

BAC18505	BAC185104(07)	7.50	8.00	1.00	X418988	63.9	7.15	602	180	0.64	1795	729	0.37	204	199	131	122	6.6	10.05	0.09	12	0.071	137	8.3	4.9	4.81	1470	123	17	1.8	1615	230	109.5	59.7	0.002	0.06	18.95	27.2	1	0.6	107.5	0.13	-0.05	1.43	0.29	0.26	0.7	193	0.4	163	157	39.5
BAC18505	BAC185104(08)	7.50	8.00	1.00	X418989	54	7.19	603	180	0.63	1796	730	0.37	205	199	131	122	6.6	10.05	0.09	12	0.071	137	8.3	4.9	4.81	1470	123	17	1.8	1615	230	109.5	59.7	0.002	0.06	18.95	27.2	1	0.6	107.5	0.13	-0.05	1.43	0.29	0.26	0.7	193	0.4	163	157	39.5
BAC18505	BAC185104(09)	7.50	8.00	1.00	X418990	54	7.19	603	180	0.63	1796	730	0.37	205	199	131	122	6.6	10.05	0.09	12	0.071	137	8.3	4.9	4.81	1470	123	17	1.8	1615	230	109.5	59.7	0.002	0.06	18.95	27.2	1	0.6	107.5	0.13	-0.05	1.43	0.29	0.26	0.7	193	0.4	163	157	39.5
BAC18505	BAC185104(10)	10.10	10.10	1.00	X418992	15.8	7.19	603	200	0.66	1800	755	0.19	17.6	155	139	103	7.4	10.05	0.07	11	0.072	144	7.7	4.7	5.01	1520	0.7	1.83	1.7	1.18	170	154.5	61.8	0.002	0.03	13.1	36.4	1	0.6	118	0.12	-0.05	1.16	0.27	0.27	0.5	199	0.3	153	127	34.8
BAC18505	BAC185104(11)	10.10	10.10	1.00	X418993	15.8	7.19	603	200	0.66	1800	755	0.19	17.6	155	139	103	7.4	10.05	0.07	11	0.072	144	7.7	4.7	5.01	1520	0.7	1.83	1.7	1.18	170	154.5	61.8	0.002	0.03	13.1	36.4	1	0.6	118	0.12	-0.05	1.16	0.27	0.27	0.5	199	0.3	153	127	34.8
BAC18507	BAC185107(01)	1.00	2.00	1.00	X419004	10.29	7.29	601	180	0.67	1817	734	0.16	17.6	165	150	103	8.07	10.05	0.11	12	0.073	149	7.5	4.4	5.14	1540	0.07	1.71	1.8	1.12	170	142	63.8	0.002	0.02	10.95	42.3	1	0.6	107	0.12	-0.05	1.27	0.31	0.29	0.5	212	0.3	161	118	30.1
BAC18507	BAC185107(02)	1.00	2.00	1.00	X419005	10.29	7.29	601	180	0.67	1817	734	0.16	17.6	165	150	103	8.07	10.05	0.11	12	0.073	149	7.5	4.4	5.14	1540	0.07	1.71	1.8	1.12	170	142	63.8	0.002	0.02	10.95	42.3	1	0.6	107	0.12	-0.05	1.27	0.31	0.29	0.5	212	0.3	161	118	30.1
BAC18507	BAC185107(03)	1.00	2.00	1.00	X419006	10.29	7.29	601	180	0.67	1817	734	0.16	17.6	165	150	103	8.07	10.05	0.11	12	0.073	149	7.5	4.4	5.14	1540	0.07	1.71	1.8	1.12	170	142	63.8	0.002	0.02	10.95	42.3	1	0.6	107	0.12	-0.05	1.27	0.31	0.29	0.5	212	0.3	161	118	30.1
BAC18507	BAC185107(04)	1.00	2.00	1.00	X419007	10.29	7.29	601	180	0.67	1817	734	0.16	17.6	165	150	103	8.07	10.05	0.11	12	0.073	149	7.5	4.4	5.14	1540	0.07	1.71	1.8	1.12	170	142	63.8	0.002	0.02	10.95	42.3	1	0.6	107	0.12	-0.05	1.27	0.31	0.29	0.5	212	0.3	161	118	30.1
BAC18507	BAC185107(05)	1.00	2.00	1.00	X419008	10.29	7.29	601	180	0.67	1817	734	0.16	17.6	165	150	103	8.07	10.05	0.11	12	0.073	149	7.5	4.4	5.14	1540	0.07	1.71	1.8	1.12	170	142	63.8	0.002	0.02	10.95	42.3	1	0.6	107	0.12	-0.05	1.27	0.31	0.29	0.5	212	0.3	161	118	30.1
BAC18507	BAC185107(06)	1.00	2.00	1.00	X419009	10.29	7.29	601	180	0.67	1817	734	0.16	17.6	165	150	103	8.07	10.05	0.11	12	0.073	149	7.5	4.4	5.14	1540	0.07	1.71	1.8	1.12	170	142	63.8	0.002	0.02	10.95	42.3	1	0.6	107	0.12	-0.05	1.27	0.31	0.29	0.5	212	0.3	161	118	30.1
BAC18507	Standard-D80C6	7.00	8.40	1.40	X419011	0.88	6.87	131	240	0.97	1111	533	0.71	13.1	100000	154	0.74	187.9	40.7	18.15	0.17	13	0.062	165	18.4	7.3	3.48	97	2.48	2.34	21.8	10000	1469	161	1	0.002	0.07	2.82	16.1	1.4	0.6	134	0.05	-0.05	2.58	0.97	0.8	1.41	1.41	1.71	207	135
BAC18507	BAC185108(01)	1.00	1.00	1.00	X419012	10.29	7.29	601	180	0.67	1817	734	0.16	17.6	165	150	103	8.07	10.05	0.11	12	0.073	149	7.5	4.4	5.14	1540	0.07	1.71	1.8	1.12	170	142	63.8	0.002	0.02	10.95	42.3	1	0.6	107	0.12	-0.05	1.27	0.31	0.29	0.5	212	0.3	161	118	30.1
BAC18507	BAC185108(02)	1.00	1.00	1.00	X419013	10.29	7.29	601	180	0.67	1817	734	0.16	17.6	165	150	103	8.07	10.05	0.11	12	0.073	149	7.5	4.4	5.14	1540	0.07	1.71	1.8	1.12	170	142	63.8	0.002	0.02	10.95	42.3	1	0.6	107	0.12	-0.05	1.27	0.31	0.29	0.5	212	0.3	161	118	30.1
BAC18507	BAC185108(03)	1.00	1.00	1.00	X419014	10.29	7.29	601	180	0.67	1817	734	0.16	17.6	165	150	103	8.07	10.05	0.11	12	0.073	149	7.5	4.4	5.14	1540	0.07	1.71	1.8	1.12	170	142	63.8	0.002	0.02	10.95	42.3	1	0.6	107	0.12	-0.05	1.27	0.31	0.29	0.5	212	0.3	161	118	30.1
BAC18507	BAC185108(04)	1.00	1.00	1.00	X419015	10.29	7.29	601	180	0.67	1817	734	0.16	17.6	165	150	103	8.07	10.05	0.11	12	0.073	149	7.5	4.4	5.14	1540	0.07	1.71	1.8	1.12	170	142	63.8	0.002	0.02	10.95	42.3	1	0.6	107	0.12	-0.05	1.27	0.31	0.29	0.5	212	0.3	161	118	30.1
BAC18507	BAC185108(05)	1.00	1.00	1.00	X419016	10.29	7.29	601	180	0.67	1817	734	0.16	17.6	165	150	103	8.07	10.05	0.11	12	0.073	149	7.5	4.4	5.14	1540	0.07	1.71	1.8	1.12	170	142	63.8	0.002	0.02	10.95	42.3	1	0.6	107	0.12	-0.05	1.27	0.31	0.29	0.5	212	0.3	161	118	30.1
BAC18507	BAC185108(06)	1.00	1.00	1.00	X419017	10.29	7.29	601	180	0.67	1817	734	0.16	17.6	165	150	103	8.07	10.05	0.11	12	0.073	149	7.5	4.4	5.14	1540	0.07	1.71	1.8	1.12	170	142	63.8	0.002	0.02	10.95	42.3	1	0.6	107	0.12	-0.05	1.27	0.31	0.29	0.5	212	0.3	161	118	30.1
BAC18507	BAC185108(07)	1.00	1.00	1.00	X419018	10.29	7.29	601	180	0.67	1817	734	0.16	17.6	165	150	103	8.07	10.05	0.11	12	0.073	149	7.5	4.4	5.14	1540	0.07	1.71	1.8	1.12	170	142	63.8	0.002	0.02	10.95	42.3	1	0.6	107	0.12	-0.05	1.27	0.31	0.29	0.5	212	0.3	161	118	30.1
BAC18507	BAC185108(08)	1.00	1.00	1.00	X419019	10.29	7.29	601	180	0.67	1817	734	0.16	17.6	165	150	103	8.07	10.05	0.11	12	0.073	149	7.5	4.4	5.14	1540	0.07	1.71	1.8	1.12	170	142	63.8	0.002	0.02	10.95	42.3	1	0.6	107	0.12	-0.05	1.27	0.31	0.29	0.5	212	0.3	161	118	30.1
BAC18507	BAC185108(09)	1.00	1.00	1.00	X419020	10.29	7.29	601	180	0.67	1817	734	0.16	17.6	165	150	103	8.07	10.05	0.11	12	0.073	149	7.5	4.4	5.14	1540	0.07	1.71	1.8	1.12	170	142	63.8	0.002	0.02	10.95	42.3	1	0.6	107	0.12	-0.05	1.27	0.31	0.29	0.5	212	0.3	161	118	30.1
BAC18507	BAC185108(10)	1.00	1.00	1.00	X419021	10.29	7.29	601	180	0.67	1817	734	0.16	17.6	165	150	103	8.07	10.05	0.11	12	0.073	149	7.5	4.4	5.14	1540	0.07	1.71	1.8	1.12	170	142	63.8	0.002	0.02	10.95	42.3	1	0.6	107	0.12	-0.05	1.27	0.31	0.29	0.5	212	0.3	161	118	30.1
BAC18507	BAC185108(11)	1.00	1.00	1.00	X419022	10.29	7.29	601	180	0.67	1817	734	0.16	17.6	165	150	103	8.07	10.05	0.11	12	0.073	149	7.5	4.4	5.14	1540	0.07	1.71	1.8	1.12	170	142	63.8	0.002	0.02	10.95	42.3	1	0.6	107	0.12	-0.05	1.27	0.31	0.29	0.5	212	0.3	161	118	30.1
BAC18507	BAC185108(12)	1.00	1.00	1.00	X419023	10.29	7.29	601	180	0.67	1817	734	0.16	17.6	165	150	103	8.07	10.05																																	

G19	051801	1.00	1.00	1.00	K2048	21.2	7.44	661	180	0.76	3.72	744	0.14	31.8	112	188	1.24	84.4	8.14	16.05	0.05	1.2	0.077	1.29	8.8	51.3	4.56	1400	1.76	142	14	1815	2.00	76.5	52.7	0.002	0.00	10.15	35	1	0.5	1154	0.13	-0.005	1.15	0.279	0.22	0.6	179	0.3	18.3	102	45.5
G19	051802	1.00	1.00	1.00	K2100	16.4	7.11	1315	220	0.76	4.89	709	0.25	35.4	107	1.29	79.7	6.59	14.05	0.05	1.3	0.082	1.08	11.8	51.1	4.56	1400	1.76	142	14	1815	2.00	76.5	52.7	0.002	0.00	10.15	35	1	0.5	107	0.15	-0.005	1.14	0.267	0.22	0.6	189	0.5	15.5	107	45.4	
G19	051803	2.00	2.00	2.00	K2086	34.6	7.33	832	160	0.47	4.43	733	0.13	16.25	120	2.03	161	8.23	16.05	0.05	1.3	0.071	1.2	8.3	46.7	4.7	1390	2.07	171	14	144	2.00	81.2	49.3	0.002	0.00	10.20	38.4	1	0.5	104	0.11	-0.005	1.14	0.233	0.22	0.6	174	0.4	17.0	102	46.3	
G19	051804	1.00	1.00	1.00	K2101	40.4	7.37	109	160	0.71	2.8	723	0.11	16.05	220	1.01	1.08	6.29	14.05	0.05	1.2	0.072	1.29	1.7	4.8	4.57	1460	1.92	148	14	1815	2.00	76.5	52.7	0.002	0.00	10.15	35	1	0.5	101	0.13	-0.005	1.17	0.217	0.22	0.6	191	0.4	17.1	97	45.4	
G19	052001	1.00	1.00	1.00	K2084	37	7.18	798	160	0.76	3.11	744	0.21	34.3	143	1.29	11.4	5.99	14.25	0.05	1.4	0.08	1.1	10.7	50.1	4.77	1460	1.98	149	14	1815	2.00	76.5	52.7	0.002	0.00	10.15	35	1	0.5	109	0.15	-0.005	1.2	0.234	0.18	0.6	181	0.5	17.2	142	46	
G19	052002	1.00	1.00	1.00	K2085	37	7.31	809	160	0.71	4.8	776	0.1	16.05	185	1.29	11.4	5.99	14.25	0.05	1.4	0.077	1.18	9.1	48.1	4.69	1460	2.06	147	14	1815	2.00	76.5	52.7	0.002	0.00	10.15	35	1	0.5	101	0.13	-0.005	1.17	0.21	0.2	0.6	179	0.4	17.1	104	45.4	
G19	052101	1.00	1.00	1.00	K2082	13.5	7.09	716	160	0.77	4.13	708	0.13	13.1	246	1.93	181	8.82	16.90	0.05	1.2	0.075	1.23	7.7	45.4	4.74	1500	0.72	17	20	1480	1.80	88.3	58.8	-0.002	0.02	14.5	40.5	1	0.4	88.4	0.16	-0.005	1.18	0.386	0.22	0.6	219	0.3	17.2	105	45.2	
G19	052102	1.00	1.00	1.00	K2083	13.4	7.00	717	160	0.77	4.13	708	0.13	13.1	246	1.93	181	8.82	16.90	0.05	1.2	0.075	1.23	7.7	45.4	4.74	1500	0.72	17	20	1480	1.80	88.3	58.8	-0.002	0.02	14.5	40.5	1	0.4	88.4	0.16	-0.005	1.18	0.386	0.22	0.6	219	0.3	17.2	105	45.2	
G19	052103	1.00	1.00	1.00	K2089	10.8	6.96	1135	160	0.73	3.58	714	0.14	14.4	294	1.94	183	9.63	16.93	0.05	1.1	0.077	1.13	7.5	43.8	5.06	1460	0.97	14.2	19	1480	1.80	88.3	58.8	-0.002	0.02	17.75	36.6	1	0.5	97	0.13	-0.005	1.17	0.36	0.2	0.6	199	0.3	16.3	108	41.1	
G19	052104	1.00	1.00	1.00	K2090	10.6	7.08	1136	160	0.73	3.58	714	0.14	14.4	294	1.94	183	9.63	16.93	0.05	1.1	0.077	1.13	7.5	43.8	5.06	1460	0.97	14.2	19	1480	1.80	88.3	58.8	-0.002	0.02	17.75	36.6	1	0.5	97	0.13	-0.005	1.17	0.36	0.2	0.6	199	0.3	16.3	108	41.1	
G19	052105	1.00	1.00	1.00	K2091	10.7	7.05	1135	160	0.73	3.58	714	0.14	14.4	294	1.94	183	9.63	16.93	0.05	1.1	0.077	1.13	7.5	43.8	5.06	1460	0.97	14.2	19	1480	1.80	88.3	58.8	-0.002	0.02	17.75	36.6	1	0.5	97	0.13	-0.005	1.17	0.36	0.2	0.6	199	0.3	16.3	108	41.1	
G19	052106	1.00	1.00	1.00	K2097	11.1	7.36	969	140	0.71	4.47	713	0.13	16.05	209	2.21	1.27	8.1	6.27	13	0.05	1	0.078	1.2	7.1	41.8	5.27	1500	1.13	14.4	17	1470	1.80	85.5	51.5	-0.002	0.02	16.95	38.8	1	0.5	103	0.12	-0.005	1.04	0.309	0.23	0.6	198	0.3	15.2	98	44.9
G19	052107	1.00	1.00	1.00	K2098	11.1	7.41	970	140	0.71	4.47	713	0.13	16.05	209	2.21	1.27	8.1	6.27	13	0.05	1	0.078	1.2	7.1	41.8	5.27	1500	1.13	14.4	17	1470	1.80	85.5	51.5	-0.002	0.02	16.95	38.8	1	0.5	103	0.12	-0.005	1.04	0.309	0.23	0.6	198	0.3	15.2	98	44.9
G19	052108	1.00	1.00	1.00	K2099	11.1	7.46	969	140	0.71	4.47	713	0.13	16.05	209	2.21	1.27	8.1	6.27	13	0.05	1	0.078	1.2	7.1	41.8	5.27	1500	1.13	14.4	17	1470	1.80	85.5	51.5	-0.002	0.02	16.95	38.8	1	0.5	103	0.12	-0.005	1.04	0.309	0.23	0.6	198	0.3	15.2	98	44.9
G19	052109	1.00	1.00	1.00	K2105	16.1	7.66	757	140	0.77	3.1	675	0.11	17.75	130	1.93	11.3	6.54	15.45	0.05	1.1	0.079	1.29	8.1	41.3	4.11	1330	1.48	15.9	16	1185	1.80	86.4	55	0.002	0.02	12.05	34.3	1	0.5	117	0.12	-0.005	1.2	0.289	0.25	0.6	175	0.3	15.3	104	44.8	
G19	052110	1.00	1.00	1.00	K2106	16.2	7.64	758	140	0.77	3.1	676	0.11	17.75	130	1.93	11.3	6.54	15.45	0.05	1.1	0.079	1.29	8.1	41.3	4.11	1330	1.48	15.9	16	1185	1.80	86.4	55	0.002	0.02	12.05	34.3	1	0.5	117	0.12	-0.005	1.2	0.289	0.25	0.6	175	0.3	15.3	104	44.8	
G19	Standard-GSM-02	1.00	1.00	1.00	K2111	10.00	4.09	1955	130	0.69	3.14	0.33	18.4	11.1	16.3	3.2	1.74	10.050	2.85	14.4	0.19	27	12.75	8.82	8.6	19.8	0.08	142	61	2.07	1.18	540	20.40	24.3	-0.002	0.18	21.8	43	60	13	0.4	133	0.19	0.11	0.237	0.4	2.7	32	1.1	6380	9.4	281	0.871
G19	052111	11.00	11.00	11.00	K2049	26.6	8.02	586	180	0.73	4.09	709	0.11	21.7	99.6	1.74	10.11	6.56	14.15	0.08	1.6	0.072	1.32	9.8	41.3	4.46	1440	1.71	20.9	24	1125	2.00	78.4	58.2	-0.002	0.02	10.0	35	1	0.6	135	0.17	-0.005	1.4	0.277	0.26	0.6	157	0.3	18.9	96	54.9	
G19	052112	11.00	11.00	11.00	K2050	26.6	8.02	586	180	0.73	4.09	709	0.11	21.7	99.6	1.74	10.11	6.56	14.15	0.08	1.6	0.072	1.32	9.8	41.3	4.46	1440	1.71	20.9	24	1125	2.00	78.4	58.2	-0.002	0.02	10.0	35	1	0.6	135	0.17	-0.005	1.4	0.277	0.26	0.6	157	0.3	18.9	96	54.9	
G19	052113	11.00	11.00	11.00	K2048	32.7	7.43	777	160	0.68	4.45	695	0.11	19.65	193.5	1.97	10.4	6.12	14.18	0.08	1.1	0.079	1.33	8.9	42.3	4.43	1430	1.78	19.1	14	1205	2.00	80.5	58.6	-0.002	0.02	12.6	31.1	1	0.8	103	0.12	-0.005	1.32	0.289	0.25	0.6	179	0.3	16.6	95	42	
G19	052114	11.00	11.00	11.00	K2049	32.7	7.57	788	160	0.68	4.45	695	0.11	19.65	193.5	1.97	10.4	6.12	14.18	0.08	1.1	0.079	1.33	8.9	42.3	4.43	1430	1.78	19.1	14	1205	2.00	80.5	58.6	-0.002	0.02	12.6	31.1	1	0.8	103	0.12	-0.005	1.32	0.289	0.25	0.6	179	0.3	16.6	95	42	
G19	052115	11.00	11.00	11.00	K2048	30.8	7.35	740	160	0.74	3.14	1435	0.28	0.19	20	2.78	1.66	1.89	15.5	14.85	0.07	1.1	0.078	1.31	8	49.8	4.46	1460	2.52	15.9	16	1200	10.95	61.0	8.003	0.05	0.3	35.2	1	0.7	98.7	0.11	0.02	0.76	0.7	191	0.2	17.8	122	41.7			
G19	052116	11.00	11.00	11.00	K2049	30.8	7.57	741	160	0.74	3.14	1435	0.28	0.19	20	2.78	1.66	1.89	15.5	14.85	0.07	1.1	0.078	1.31	8	49.8	4.46	1460	2.52	15.9	16	1200	10.95	61.0	8.003	0.05	0.3	35.2	1	0.7	98.7	0.11	0.02	0.76	0.7	191	0.2	17.8	122	41.7			
G19	052117	11.00	11.00	11.00	K2048	28.7	7.59	801	170	0.72	3.13	723	0.12	13.1	155.5	1.43	1.91	6.84	8.02	15.55	0.06	1	0.075	1.34	9.4	41.9	4.85	1440	3.24	14.7	17	1120	240	80.1	54.5	-0.002	0.02	12.35	29.2	1	0.6	103	0.1	-0.005	1.41	0.227	0.25	0.7	178	0.3	11.1	116	36.3
G19	052118	11.00	11.00	11.00	K2049	28.7	7.59	801	170	0.72	3.13	723	0.12	13.1	155.5	1.43	1.91	6.84	8.02	15.55	0.06	1	0.075	1.34	9.4	41.9	4.85	1440	3.24	14.7	17	1120	240	80.1	54.5	-0.002	0.02	12.35	29.2	1	0.6	103	0.1	-0.005	1.41	0.227	0.25	0.7	178	0.3	11.1	116	36.3
G19	052119	11.00	11.00	11.00	K2049	37.6	7.44	648	180	0.68	4.48	749	0.27	16.05	184.5	1.88	1.48	5.84	13.85	0.04	1.3	0.076	1.33	8.8	41.8	4.46	1440	2.68	15.9	16	1200	10.95	61.0	8.003	0.05	0.3	35.2	1	0.7	98.7	0.11	0.02	0.76	0.7	191	0.2	17.8	122	41.7				
G19	052120	11.00	11.00	11.00	K2048	37.6	7.44	648	180	0.68	4.48	749	0.27	16.05	184.5	1.88	1.48	5.84	13.85	0.04	1.3</																																



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 Account: BMRPLLBW

CERTIFICATE SD18245122

Project: ODM Infill Samples
 P.O. No.: ODM #1586
 This report is for 77 Tailings samples submitted to our lab in Sudbury, ON, Canada on 1-OCT-2018.
 The following have access to data associated with this certificate:
 PETER DOYLE IAN PRINGLE

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
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	
Ag-OG62	Ore Grade Ag - Four Acid	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	
Ni-OG62	Ore Grade Ni - Four Acid	
ME-MS61	48 element four acid 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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Project: ODM Infill Samples

CERTIFICATE OF ANALYSIS SD18245122

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Units		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
LOD		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
X419494		0.04	3.92	5.31	13.2	110	0.55	0.85	3.40	2.12	15.10	974	259	0.72	>10000	17.60
X419495		0.92	57.3	6.98	371	220	0.99	4.09	4.95	0.11	40.3	94.6	82	1.42	77.7	8.36
X419496		0.92	41.1	7.27	549	200	0.85	3.53	6.26	0.19	30.1	110.5	153	1.22	67.8	7.03
X419497		0.94	38.4	7.09	597	180	0.76	3.15	6.63	0.25	21.8	120.0	184	1.16	70.6	5.98
X419498		1.01	27.4	7.51	630	150	0.71	2.15	7.28	0.14	16.80	138.5	191	1.11	54.7	5.94
X419499		0.99	24.3	7.39	636	120	0.96	2.26	7.63	0.11	16.55	136.0	239	1.26	46.2	5.90
X419500		0.83	46.1	7.11	620	180	0.70	3.59	6.66	0.30	19.95	143.0	202	1.16	76.3	6.31
X419501		0.89	27.4	7.30	732	150	0.78	2.93	7.38	0.15	18.05	151.5	217	1.16	66.9	6.17
X419502		0.99	42.3	7.06	653	180	0.72	4.32	7.10	0.14	19.05	160.0	201	1.13	70.6	6.41
X419503		0.07	0.19	0.05	3.7	<10	0.16	0.03	0.04	0.03	0.18	0.9	7	0.10	2.4	0.67
X419504		1.05	36.0	6.64	572	150	0.62	3.66	6.78	0.15	16.85	162.5	212	1.09	68.7	5.75
X419505		1.00	50.0	7.10	589	130	0.75	2.83	7.21	0.17	13.80	143.0	245	1.10	69.3	5.74
X419506		0.90	46.3	7.21	630	140	0.84	6.04	7.21	0.13	14.30	144.0	232	1.07	70.6	5.74
X419507		0.99	44.5	7.36	630	140	0.71	5.24	7.27	0.13	14.95	142.0	208	1.04	67.6	5.72
X419508		0.85	82.5	7.39	1490	150	0.71	27.2	7.61	0.21	18.50	346	237	1.27	141.0	6.38
X419509		0.99	61.7	7.14	1510	190	0.95	6.69	7.26	0.20	27.0	302	179	1.27	89.0	6.57
X419510		0.86	51.5	6.93	1155	170	0.71	4.00	7.18	0.27	20.7	250	199	1.13	82.8	6.44
X419511		0.96	48.4	7.07	599	130	0.66	2.83	7.35	0.15	15.40	155.0	237	1.11	73.5	5.84
X419512		0.93	46.2	7.29	827	140	0.73	7.47	7.48	0.15	16.55	173.5	227	1.15	67.6	6.01
X419513		0.88	44.1	7.38	655	150	0.76	4.39	7.33	0.16	14.65	144.5	226	1.07	74.3	5.91
X419514		0.04	4.67	5.32	28.5	120	0.62	0.96	3.43	2.11	16.90	962	268	0.73	>10000	17.45
X419515		0.89	41.9	7.25	598	140	0.60	4.91	7.31	0.13	14.00	124.5	212	1.02	80.4	5.76
X419516		0.90	42.6	7.19	584	140	0.77	5.02	7.24	0.12	14.25	127.0	217	0.99	107.5	5.73
X419517		1.03	65.6	6.99	606	180	0.63	4.93	7.21	0.19	14.75	215	219	1.04	90.3	6.46
X419518		1.00	40.9	6.83	746	190	0.75	5.16	7.18	0.22	18.15	203	222	1.20	74.3	6.84
X419519		1.03	28.1	7.04	621	130	0.70	3.45	7.23	0.15	15.75	158.0	215	1.13	73.6	5.99
X419520		1.00	50.7	7.21	643	130	0.75	2.85	7.43	0.17	15.55	143.5	259	1.23	69.4	5.93
X419521		0.94	41.7	7.27	726	140	0.72	3.58	7.32	0.16	16.25	157.0	225	1.19	67.4	6.02
X419522		0.90	37.3	7.44	753	140	0.72	4.58	7.40	0.12	16.75	160.0	207	1.14	64.3	5.80
X419523		0.07	0.40	0.07	10.4	<10	0.11	0.07	0.06	0.03	0.28	2.3	9	0.10	1.8	0.69
X419524		1.03	58.8	6.92	918	150	0.65	5.33	7.24	0.16	14.85	239	235	1.00	86.1	6.31
X419525		1.05	56.7	6.84	856	150	0.66	5.18	7.16	0.17	14.80	226	238	1.07	88.2	6.26
X419526		1.05	69.3	7.05	878	150	0.67	4.76	7.34	0.18	15.30	238	252	1.09	92.9	6.27
X419527		1.12	>100	6.68	894	140	0.71	5.66	7.24	0.15	14.20	243	243	1.05	90.0	6.34
X419528		1.03	58.4	7.27	737	150	0.69	4.63	7.30	0.16	15.20	217	243	1.11	86.5	6.22
X419529		0.86	30.5	7.53	984	130	0.77	3.14	8.07	0.12	19.00	207	203	1.20	39.3	6.22
X419530		0.89	24.9	7.32	549	130	0.70	1.84	7.59	0.11	15.65	118.5	237	1.14	52.0	5.68
X419531		0.90	27.1	7.55	620	130	0.71	3.44	7.51	0.14	16.50	158.5	216	1.15	50.9	5.83
X419532		0.95	31.8	7.64	672	130	0.70	4.42	7.49	0.12	16.75	158.5	207	1.07	58.2	5.79
X419533		0.96	30.8	7.68	733	140	0.75	4.52	7.75	0.09	18.55	145.0	190	1.25	52.6	5.76



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Project: ODM Infill Samples

CERTIFICATE OF ANALYSIS SD18245122

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units LOD	ppm 0.05	ppm 0.05	ppm 0.1	ppm 0.005	% 0.01	ppm 0.5	ppm 0.2	% 0.01	ppm 5	ppm 0.05	% 0.01	ppm 0.1	ppm 0.2	ppm 10	ppm 0.5
X419494		11.10	0.17	1.2	0.120	0.31	6.8	9.0	3.94	995	4.26	1.16	4.4	>10000	460	13.8
X419495		18.95	0.07	2.4	0.114	1.12	16.3	27.7	2.65	1380	1.00	2.88	4.8	88.7	420	35.3
X419496		15.40	0.07	1.7	0.088	1.17	12.6	37.6	3.93	1480	1.40	2.26	2.8	105.0	310	85.6
X419497		13.55	0.07	1.2	0.074	1.15	8.9	48.2	4.44	1450	2.05	1.87	1.9	119.0	270	112.0
X419498		13.45	0.06	1.0	0.068	1.16	7.2	45.6	4.77	1360	1.98	1.80	1.6	134.0	200	71.2
X419499		13.25	0.06	0.9	0.065	1.08	7.1	49.8	5.25	1370	2.48	1.64	1.3	153.0	200	71.0
X419500		13.70	0.07	1.2	0.071	1.16	8.4	45.9	4.76	1520	0.78	1.75	2.0	130.5	240	108.5
X419501		13.50	0.06	1.0	0.074	1.18	7.5	46.1	5.02	1440	1.88	1.73	1.7	145.5	200	84.4
X419502		13.40	0.07	1.1	0.079	1.26	8.0	43.0	4.85	1500	0.46	1.64	2.1	128.5	210	85.7
X419503		0.21	<0.05	<0.1	<0.005	0.01	<0.5	12.1	0.03	76	0.25	0.01	<0.1	3.4	<10	1.0
X419504		12.30	0.06	1.0	0.067	1.12	6.9	41.9	4.66	1320	0.59	1.49	1.6	140.5	170	69.8
X419505		12.50	0.06	0.9	0.063	1.13	5.8	41.9	5.15	1370	1.30	1.64	1.4	156.5	150	93.1
X419506		13.45	0.06	0.9	0.069	1.21	6.1	41.4	4.81	1340	1.50	1.74	1.4	153.5	170	92.2
X419507		13.55	0.07	1.0	0.067	1.22	6.3	41.8	4.61	1330	1.72	1.79	1.4	138.5	170	81.1
X419508		14.00	0.06	1.0	0.077	1.16	7.8	48.8	5.13	1460	3.10	1.65	1.4	214	200	184.0
X419509		14.40	0.06	1.2	0.091	1.19	11.8	49.8	4.70	1580	0.64	1.88	2.2	147.5	260	105.5
X419510		14.10	0.06	1.2	0.082	1.10	8.8	43.9	4.85	1560	0.48	1.73	2.1	155.0	240	101.5
X419511		12.45	0.07	0.9	0.063	1.11	6.3	41.1	5.19	1410	0.60	1.59	1.4	157.0	160	88.3
X419512		13.80	0.06	1.0	0.076	1.17	7.1	42.2	4.95	1430	0.86	1.77	1.6	164.0	180	90.4
X419513		13.15	0.06	0.9	0.072	1.21	6.3	39.4	4.95	1390	1.52	1.74	1.4	151.0	170	84.1
X419514		11.65	0.33	1.3	0.120	0.31	7.2	10.3	3.96	982	5.18	1.16	5.0	>10000	460	14.5
X419515		13.25	0.05	0.9	0.068	1.20	6.0	39.4	4.75	1350	1.76	1.73	1.4	166.0	170	76.2
X419516		13.50	0.06	0.8	0.068	1.19	6.0	40.0	4.70	1330	1.80	1.72	1.4	216	160	75.1
X419517		13.25	0.05	0.9	0.067	1.25	6.1	40.3	5.24	1550	0.48	1.63	1.9	167.0	170	98.7
X419518		13.05	0.05	1.2	0.076	1.14	7.9	44.6	5.29	1660	0.51	1.63	2.2	158.0	210	95.2
X419519		12.85	0.06	0.9	0.069	1.12	6.8	41.9	5.02	1400	0.59	1.60	1.5	150.5	170	89.9
X419520		12.65	0.05	0.9	0.067	1.12	6.6	44.9	5.42	1420	0.71	1.64	1.5	165.5	160	90.2
X419521		13.30	0.05	1.0	0.063	1.15	6.9	42.7	5.04	1440	0.80	1.70	1.6	158.5	180	88.9
X419522		13.35	0.06	0.9	0.072	1.19	7.1	42.5	4.79	1360	2.26	1.71	1.4	146.0	190	77.5
X419523		0.24	<0.05	<0.1	<0.005	0.01	<0.5	12.8	0.04	81	0.23	0.01	<0.1	4.1	<10	1.6
X419524		12.50	0.06	1.0	0.067	1.18	6.2	37.9	5.27	1510	0.58	1.54	1.9	166.0	150	79.4
X419525		12.85	0.07	1.0	0.070	1.17	6.2	38.9	5.23	1500	0.48	1.55	1.9	159.5	160	80.0
X419526		13.00	0.07	0.9	0.062	1.20	6.3	40.1	5.38	1500	0.63	1.58	1.8	174.0	150	87.9
X419527		12.55	0.06	0.9	0.068	1.15	5.8	39.2	5.36	1510	0.61	1.54	1.9	168.5	150	80.4
X419528		13.05	0.05	1.0	0.068	1.19	6.4	41.2	5.24	1460	0.70	1.66	1.6	161.5	170	79.9
X419529		13.75	0.06	1.0	0.074	1.08	8.1	48.5	5.01	1420	0.64	1.65	1.4	151.0	240	57.5
X419530		12.35	0.06	0.8	0.066	1.05	6.8	43.8	5.13	1360	0.47	1.66	1.2	152.5	170	81.4
X419531		12.90	0.05	0.9	0.067	1.11	7.2	42.4	4.88	1380	0.56	1.74	1.3	147.0	190	76.5
X419532		13.40	0.05	1.0	0.072	1.17	7.1	41.0	4.69	1340	0.79	1.81	1.4	138.5	190	71.6
X419533		14.20	0.07	1.0	0.072	1.16	8.4	42.8	4.62	1380	2.01	1.77	1.4	135.0	200	68.7



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 SUITE 400 - 744 WEST HASTINGS STREET
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Project: ODM Infill Samples

CERTIFICATE OF ANALYSIS SD18245122

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		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
X419494		10.0	0.046	8.24	2.70	8.2	21	2.3	178.5	0.29	4.28	1.01	0.525	0.17	0.4	77
X419495		49.1	<0.002	0.02	6.77	36.0	<1	1.2	109.5	0.36	<0.05	2.97	0.796	0.21	1.5	217
X419496		49.5	<0.002	0.02	8.19	34.7	<1	0.8	106.0	0.21	<0.05	1.93	0.504	0.22	0.9	201
X419497		46.9	<0.002	0.02	8.16	33.9	<1	0.5	105.0	0.14	<0.05	1.16	0.306	0.22	0.6	176
X419498		47.1	0.002	0.02	10.70	34.7	1	0.4	106.5	0.11	<0.05	1.08	0.268	0.20	0.5	177
X419499		46.6	0.002	0.02	10.35	34.3	1	0.5	98.2	0.10	<0.05	1.03	0.238	0.20	0.5	171
X419500		51.2	<0.002	0.02	8.45	37.6	1	0.5	104.5	0.14	<0.05	1.19	0.330	0.23	0.5	189
X419501		46.6	<0.002	0.02	11.70	35.8	<1	0.5	107.5	0.12	<0.05	1.04	0.290	0.23	0.5	188
X419502		53.5	<0.002	0.01	8.10	39.8	<1	0.5	106.5	0.15	<0.05	1.11	0.347	0.23	0.5	205
X419503		0.5	<0.002	<0.01	0.08	0.2	<1	<0.2	1.1	<0.05	<0.05	0.02	<0.005	<0.02	<0.1	1
X419504		52.0	<0.002	0.01	8.30	36.8	1	0.4	96.5	0.12	<0.05	1.04	0.279	0.22	0.5	182
X419505		45.2	<0.002	0.02	12.90	35.3	1	0.4	98.5	0.09	<0.05	0.91	0.246	0.21	0.5	177
X419506		41.2	<0.002	0.02	12.90	33.9	<1	0.4	106.0	0.10	<0.05	0.97	0.246	0.23	0.5	177
X419507		40.9	<0.002	0.02	12.40	33.3	<1	0.4	106.5	0.11	<0.05	1.06	0.245	0.21	0.5	173
X419508		50.0	0.003	0.04	24.5	34.6	1	0.5	99.3	0.10	<0.05	1.10	0.244	0.22	0.6	180
X419509		51.9	<0.002	0.01	12.15	37.7	1	0.6	105.0	0.15	<0.05	1.21	0.350	0.21	0.6	197
X419510		44.8	<0.002	0.01	14.25	37.9	<1	0.6	107.0	0.14	<0.05	1.23	0.337	0.22	0.6	197
X419511		44.6	<0.002	0.01	12.55	36.6	1	0.4	98.0	0.10	<0.05	0.97	0.260	0.22	0.4	180
X419512		44.1	<0.002	0.01	14.40	36.4	<1	0.4	107.0	0.11	<0.05	1.10	0.272	0.21	0.6	185
X419513		46.4	<0.002	0.02	16.20	36.5	1	0.4	104.0	0.10	<0.05	1.04	0.260	0.22	0.5	183
X419514		11.0	0.044	8.32	3.13	9.0	22	2.3	184.5	0.30	4.37	1.02	0.512	0.17	0.4	78
X419515		41.9	<0.002	0.03	12.95	32.6	1	0.4	106.0	0.10	<0.05	0.93	0.243	0.22	0.5	174
X419516		38.6	<0.002	0.04	13.35	32.6	<1	0.4	107.0	0.10	<0.05	0.86	0.243	0.22	0.5	174
X419517		51.2	<0.002	0.02	13.20	40.3	1	0.5	105.0	0.13	<0.05	0.97	0.330	0.24	0.4	208
X419518		47.9	<0.002	0.02	9.88	37.1	1	0.6	99.7	0.15	<0.05	0.98	0.382	0.20	0.5	209
X419519		45.8	<0.002	0.01	11.65	37.0	<1	0.4	98.3	0.11	<0.05	1.01	0.277	0.21	0.4	187
X419520		45.5	<0.002	0.01	11.60	36.9	1	0.4	98.7	0.10	<0.05	0.98	0.260	0.21	0.5	181
X419521		49.7	<0.002	0.01	13.85	37.3	<1	0.4	102.5	0.12	<0.05	1.10	0.271	0.22	0.5	186
X419522		49.4	<0.002	0.02	15.00	34.4	<1	0.4	101.0	0.10	<0.05	1.08	0.242	0.22	0.5	173
X419523		0.9	<0.002	<0.01	0.17	0.2	<1	<0.2	1.3	<0.05	<0.05	0.03	<0.005	<0.02	<0.1	2
X419524		51.6	<0.002	0.01	13.10	40.8	<1	0.4	98.3	0.13	<0.05	1.06	0.341	0.22	0.4	208
X419525		51.5	<0.002	0.02	13.90	40.9	<1	0.5	100.0	0.13	<0.05	0.98	0.326	0.22	0.4	204
X419526		51.8	<0.002	0.02	15.45	41.6	1	0.4	101.5	0.12	<0.05	0.98	0.314	0.23	0.4	203
X419527		47.7	<0.002	0.02	15.00	38.2	<1	0.5	97.9	0.13	<0.05	0.96	0.332	0.22	0.4	208
X419528		52.6	<0.002	0.02	13.35	39.1	1	0.5	105.0	0.11	<0.05	1.11	0.297	0.23	0.5	197
X419529		37.8	<0.002	<0.01	13.05	32.3	1	0.5	100.5	0.11	<0.05	1.15	0.244	0.19	0.5	176
X419530		39.6	<0.002	<0.01	10.25	31.8	1	0.4	97.5	0.09	<0.05	0.85	0.223	0.20	0.4	165
X419531		45.2	<0.002	0.01	10.20	32.4	<1	0.4	99.7	0.10	<0.05	1.02	0.235	0.18	0.5	169
X419532		50.5	<0.002	0.01	10.95	33.7	<1	0.4	103.0	0.10	<0.05	1.14	0.245	0.20	0.5	173
X419533		51.7	0.002	0.01	14.60	31.7	1	0.5	106.0	0.11	<0.05	1.14	0.240	0.24	0.6	168



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Cu-OG62	Ni-OG62	PUL-QC
		W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Cu %	Ni %	Pass75um %
		0.1	0.1	2	0.5	1	0.001	0.001	0.01
X419494		2.5	8.8	140	46.7		1.595	4.52	
X419495		0.6	25.5	82	86.1				88.3
X419496		0.5	19.5	125	57.7				85.8
X419497		0.4	17.4	144	45.2				
X419498		0.3	16.0	92	37.9				
X419499		0.3	15.0	87	35.6				
X419500		0.4	17.4	159	44.3				
X419501		0.3	16.9	101	39.5				
X419502		0.2	18.6	99	43.5				
X419503		<0.1	0.2	2	<0.5				
X419504		0.2	16.3	88	36.6				
X419505		0.2	13.7	97	32.1				
X419506		0.2	14.1	90	35.5				
X419507		0.2	15.0	89	37.8				
X419508		0.3	17.4	127	37.1				
X419509		0.4	22.6	126	48.5				
X419510		0.4	17.8	129	46.6				
X419511		0.2	14.2	96	34.0				
X419512		0.3	16.0	100	38.1				
X419513		0.2	15.2	93	35.9				
X419514		2.2	9.8	142	50.8		1.610	4.60	
X419515		0.2	14.3	90	34.3				
X419516		0.2	13.8	90	34.0				
X419517		0.3	16.0	113	36.7				
X419518		0.4	15.6	137	38.3				
X419519		0.2	15.3	96	36.1				
X419520		0.2	14.6	98	34.7				
X419521		0.3	16.3	101	36.2				
X419522		0.2	16.0	91	36.3				
X419523		<0.1	0.2	2	<0.5				
X419524		0.3	16.1	98	38.3				
X419525		0.3	16.1	98	35.9				
X419526		0.3	16.0	102	35.7				
X419527		0.2	15.2	100	34.5	122			
X419528		0.3	15.6	99	38.7				
X419529		0.4	16.2	85	41.1				
X419530		0.3	13.7	89	30.6				
X419531		0.3	15.3	92	35.3				
X419532		0.3	15.5	85	38.4				
X419533		0.3	15.1	86	34.7				95.9



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Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	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 %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
X419534		0.04	4.03	5.54	21.8	120	0.53	0.94	3.53	2.17	17.35	960	256	0.79	>10000	18.00
X419535		0.90	26.8	7.62	922	140	0.71	4.42	7.86	0.09	17.30	163.5	168	1.19	59.4	6.28
X419536		0.79	33.0	7.73	1045	140	0.67	5.42	7.87	0.09	18.70	194.0	173	1.22	74.3	6.60
X419537		1.00	>100	7.15	1275	180	0.72	8.47	7.48	0.19	19.15	312	207	1.28	109.5	7.08
X419538		1.01	36.8	7.15	709	150	0.66	3.39	7.57	0.13	18.10	183.5	212	1.22	77.9	6.45
X419539		0.86	58.4	7.43	730	150	0.66	14.50	7.61	0.14	18.80	193.5	217	1.25	79.3	6.49
X419540		0.99	91.5	7.12	915	150	0.73	4.22	7.62	0.16	17.90	225	241	1.15	84.0	6.58
X419541		1.02	55.5	7.21	947	140	0.79	19.80	7.73	0.17	15.90	271	225	1.15	82.9	6.27
X419542		0.92	36.0	7.34	1025	140	0.78	5.92	7.83	0.13	16.65	210	226	1.19	78.5	6.18
X419543		0.06	0.47	0.07	10.6	<10	0.12	0.19	0.06	<0.02	0.24	3.6	8	0.11	4.8	0.80
X419544		0.89	45.8	7.26	822	140	0.66	6.16	7.59	0.12	14.25	165.0	218	1.11	78.9	5.85
X419545		0.91	66.7	7.77	666	160	0.74	3.70	7.72	0.12	15.55	128.0	204	1.26	90.5	6.36
X419546		1.00	35.9	7.63	840	160	0.63	8.06	7.59	0.13	16.25	147.5	176	1.27	77.7	6.13
X419547		0.91	28.9	7.90	850	160	0.71	4.58	7.68	0.11	16.45	158.5	165	1.12	50.2	6.36
X419548		0.87	30.9	7.54	981	150	0.75	4.30	7.89	0.08	21.7	165.5	159	1.17	47.4	6.27
X419549		0.89	20.3	7.37	873	160	0.73	4.41	7.72	0.08	23.5	137.0	170	1.08	38.9	6.58
X419550		0.90	22.2	7.56	808	170	0.62	4.11	7.58	0.09	23.5	134.0	172	1.14	43.1	6.36
X419551		1.06	55.0	6.98	945	170	0.65	5.46	7.54	0.17	18.05	232	224	1.16	90.0	6.69
X419552		0.97	42.8	6.90	1110	130	0.70	4.83	7.75	0.16	13.95	291	273	1.20	82.7	6.25
X419553		0.95	75.5	7.12	918	140	0.75	5.91	8.00	0.16	14.75	250	250	1.18	83.4	6.43
X419554		0.04	3.93	5.55	14.5	120	0.48	0.91	3.61	2.07	17.70	981	266	0.80	>10000	18.10
X419555		0.96	48.4	7.32	871	140	0.67	7.28	7.75	0.15	16.65	200	227	1.21	90.6	6.54
X419556		1.05	57.3	7.21	838	140	0.71	9.29	7.88	0.15	15.60	198.0	218	1.19	91.9	6.33
X419557		0.89	57.3	7.48	719	160	0.67	4.98	7.59	0.12	16.25	127.0	178	1.17	79.5	6.29
X419558		0.96	55.8	7.97	632	170	0.65	4.21	7.37	0.11	15.90	111.0	172	1.18	69.4	6.12
X419559		0.97	29.6	7.64	868	150	0.69	4.94	7.35	0.10	18.35	144.0	160	1.22	56.4	6.03
X419560		0.86	30.2	7.71	840	160	0.67	3.60	7.31	0.09	16.95	142.5	163	1.22	57.5	6.11
X419561		0.89	21.2	7.57	904	150	0.73	3.88	7.72	0.08	20.5	157.5	157	1.11	43.6	6.21
X419562		0.78	>100	7.28	2290	150	0.56	23.3	7.58	0.21	20.4	445	178	1.41	215	6.94
X419563		0.06	0.52	0.08	10.0	<10	0.07	0.10	0.07	<0.02	0.24	2.2	8	0.10	2.4	0.83
X419564		0.84	>100	7.35	3320	170	0.55	39.5	7.88	0.27	20.1	652	195	1.29	296	7.01
X419565		0.99	34.8	7.20	783	180	0.73	4.60	7.41	0.15	24.1	172.0	188	1.36	79.2	6.68
X419566		0.89	71.3	7.16	627	150	0.69	2.63	7.51	0.14	17.25	170.0	212	1.25	78.1	6.50
X419567		1.05	35.1	7.35	609	140	0.66	5.48	7.69	0.13	15.70	158.5	230	1.24	74.0	6.10
X419568		0.95	46.7	7.74	629	150	0.73	2.74	7.68	0.14	16.30	125.5	199	1.21	79.9	6.25
X419569		0.92	34.5	7.50	649	150	0.75	3.14	7.52	0.11	17.95	116.5	179	1.11	52.6	5.93
X419570		0.89	36.0	7.33	777	140	0.63	3.55	7.28	0.10	17.10	144.0	181	1.20	59.0	6.06



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		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
X419534		12.35	0.30	1.3	0.113	0.32	7.7	9.4	3.98	1020	5.25	1.19	5.3	>10000	470	15.0
X419535		14.90	0.05	1.1	0.071	1.12	7.7	44.9	4.79	1430	2.31	1.76	1.6	153.0	230	71.3
X419536		15.80	0.05	1.1	0.083	1.17	8.2	48.6	4.88	1460	2.84	1.77	1.6	200	240	68.3
X419537		14.55	0.06	1.3	0.085	1.23	8.3	42.3	5.26	1700	0.77	1.68	2.4	171.0	190	106.0
X419538		14.45	0.06	1.1	0.074	1.19	8.0	40.6	4.95	1520	0.69	1.72	2.0	159.5	200	90.8
X419539		14.40	0.07	1.1	0.075	1.19	8.2	41.2	5.06	1520	0.92	1.73	1.9	159.0	190	91.0
X419540		14.05	0.06	1.2	0.063	1.13	7.9	37.7	5.28	1560	0.70	1.59	2.1	166.5	190	90.5
X419541		13.55	0.08	1.0	0.071	1.16	7.0	36.9	5.17	1540	0.74	1.67	1.9	242	150	87.3
X419542		13.90	0.06	1.0	0.078	1.17	7.3	39.0	5.13	1520	1.36	1.69	1.8	164.0	170	83.8
X419543		0.26	<0.05	<0.1	<0.005	0.01	<0.5	13.0	0.04	93	0.32	0.01	0.1	12.0	10	1.4
X419544		12.50	0.05	0.9	0.071	1.21	6.5	39.4	4.97	1400	1.36	1.63	1.4	152.0	140	78.2
X419545		14.95	0.07	1.1	0.069	1.28	7.0	40.0	5.17	1500	2.26	1.75	1.7	148.0	170	94.2
X419546		14.65	0.06	1.1	0.068	1.24	7.2	39.8	4.89	1450	1.90	1.78	1.7	135.0	180	89.2
X419547		15.35	0.05	1.1	0.074	1.25	7.2	43.4	4.76	1440	1.71	1.91	1.7	123.5	220	72.6
X419548		15.05	0.08	1.3	0.081	1.19	9.5	41.3	4.56	1440	1.78	1.81	1.9	120.5	230	66.2
X419549		15.20	0.08	1.7	0.079	1.13	10.3	39.4	4.36	1500	1.78	1.93	2.8	109.0	340	61.5
X419550		15.05	0.08	1.5	0.080	1.20	10.4	38.8	4.41	1460	1.69	1.93	2.3	109.0	280	65.3
X419551		14.00	0.06	1.2	0.075	1.20	7.8	38.2	5.11	1580	0.67	1.61	2.3	157.0	200	84.4
X419552		13.00	0.06	1.0	0.068	1.08	6.3	39.8	5.59	1540	0.80	1.53	1.7	194.0	150	89.3
X419553		13.30	0.06	1.0	0.072	1.14	6.5	37.3	5.69	1600	0.58	1.58	1.9	192.0	150	100.0
X419554		12.10	0.32	1.2	0.120	0.31	7.8	9.2	4.05	1040	4.90	1.19	5.3	>10000	470	14.6
X419555		13.85	0.06	1.0	0.084	1.19	7.3	38.3	5.30	1540	1.08	1.72	1.9	182.0	170	85.0
X419556		13.75	0.07	1.0	0.074	1.19	7.1	37.9	5.25	1540	1.38	1.66	1.8	165.0	150	88.8
X419557		14.30	0.05	1.1	0.069	1.25	7.3	37.0	4.89	1460	1.08	1.80	1.8	132.5	190	85.1
X419558		15.30	0.07	1.1	0.077	1.30	7.0	40.6	4.73	1420	1.54	2.00	1.7	122.0	200	83.2
X419559		14.70	0.06	1.1	0.072	1.26	8.1	40.9	4.55	1400	1.61	1.84	1.7	124.0	210	73.7
X419560		14.75	0.07	1.1	0.070	1.27	7.5	41.4	4.55	1400	1.66	1.86	1.7	123.0	200	77.9
X419561		15.15	0.06	1.3	0.078	1.26	8.9	39.0	4.41	1400	1.81	1.82	1.8	111.0	240	58.4
X419562		14.95	0.07	1.2	0.082	1.17	8.9	46.0	4.95	1440	3.13	1.56	1.6	174.5	270	172.5
X419563		0.29	<0.05	<0.1	<0.005	0.01	<0.5	11.6	0.04	96	0.30	0.02	0.1	5.6	10	1.1
X419564		15.40	0.07	1.2	0.078	1.36	8.9	42.3	4.88	1440	2.73	1.53	1.7	215	280	176.5
X419565		14.45	0.06	1.3	0.082	1.25	10.4	42.8	4.86	1540	0.65	1.76	2.3	131.5	240	85.3
X419566		14.15	0.06	1.2	0.070	1.15	7.6	39.8	5.13	1540	0.67	1.69	2.1	151.5	200	81.8
X419567		13.80	0.06	1.0	0.069	1.17	7.2	39.6	5.29	1470	0.58	1.65	1.6	163.5	160	92.5
X419568		14.50	0.07	1.1	0.071	1.28	7.3	39.1	5.01	1460	0.75	1.78	1.7	139.0	190	79.0
X419569		14.50	0.06	1.1	0.078	1.16	7.9	39.6	4.55	1380	0.97	1.83	1.7	111.0	200	67.9
X419570		14.20	0.07	1.1	0.072	1.15	7.4	41.5	4.68	1380	1.14	1.70	1.6	123.0	200	73.4



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Project: ODM Infill Samples

CERTIFICATE OF ANALYSIS SD18245122

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
LOD		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
X419534		11.1	0.052	8.68	3.33	9.0	22	2.8	187.5	0.34	4.34	1.09	0.532	0.19	0.3	80
X419535		33.1	0.003	0.02	13.50	30.4	1	0.6	106.0	0.11	<0.05	1.05	0.252	0.22	0.6	177
X419536		34.9	<0.002	0.04	14.10	31.1	1	0.6	111.5	0.12	<0.05	1.15	0.258	0.24	0.6	181
X419537		54.2	<0.002	0.02	15.65	42.0	1	0.6	107.0	0.16	<0.05	1.23	0.399	0.25	0.5	226
X419538		47.9	<0.002	0.01	12.60	36.0	<1	0.5	106.5	0.14	<0.05	1.13	0.313	0.25	0.5	200
X419539		53.4	<0.002	0.02	13.15	37.9	<1	0.5	107.5	0.14	<0.05	1.18	0.317	0.25	0.5	200
X419540		51.1	<0.002	0.02	14.55	38.7	<1	0.6	104.5	0.14	<0.05	1.17	0.344	0.23	0.5	207
X419541		49.6	<0.002	0.02	16.30	38.5	1	0.5	101.0	0.13	<0.05	1.14	0.315	0.22	0.5	204
X419542		49.4	0.002	0.02	17.60	37.8	<1	0.5	101.0	0.13	<0.05	1.11	0.304	0.21	0.5	197
X419543		0.7	<0.002	<0.01	0.17	0.2	<1	<0.2	1.3	<0.05	<0.05	0.05	<0.005	<0.02	<0.1	2
X419544		49.9	0.002	0.02	15.40	35.4	<1	0.4	96.4	0.11	<0.05	0.95	0.265	0.24	0.4	183
X419545		56.0	<0.002	0.03	18.60	38.9	<1	0.5	114.0	0.12	<0.05	1.12	0.286	0.26	0.5	196
X419546		54.0	0.003	0.02	16.95	36.0	<1	0.5	113.0	0.12	<0.05	1.13	0.281	0.26	0.5	187
X419547		32.8	<0.002	0.01	11.95	30.8	<1	0.6	116.0	0.13	<0.05	1.04	0.277	0.25	0.6	187
X419548		44.8	<0.002	0.01	12.55	33.2	1	0.5	108.0	0.13	<0.05	1.29	0.298	0.22	0.6	190
X419549		36.6	0.002	0.01	11.20	32.4	<1	0.6	116.5	0.18	<0.05	1.42	0.369	0.22	0.7	204
X419550		52.9	<0.002	0.01	11.45	33.8	<1	0.6	117.5	0.17	<0.05	1.44	0.339	0.21	0.6	199
X419551		49.6	<0.002	0.02	12.50	38.3	<1	0.5	110.0	0.16	<0.05	1.19	0.378	0.24	0.5	220
X419552		44.8	<0.002	0.02	16.50	36.2	<1	0.5	96.3	0.12	<0.05	0.95	0.303	0.21	0.4	200
X419553		48.8	<0.002	0.02	16.55	39.1	<1	0.5	102.0	0.13	<0.05	1.03	0.323	0.23	0.4	211
X419554		10.9	0.050	8.67	3.17	8.5	21	2.6	189.0	0.33	4.49	1.11	0.540	0.18	0.4	82
X419555		49.4	<0.002	0.03	15.10	37.4	<1	0.5	103.5	0.13	<0.05	1.11	0.323	0.22	0.5	208
X419556		48.7	<0.002	0.02	15.40	38.0	<1	0.5	101.5	0.13	<0.05	1.03	0.313	0.23	0.5	206
X419557		47.0	0.003	0.02	14.35	35.1	<1	0.6	112.0	0.12	<0.05	1.11	0.287	0.25	0.5	196
X419558		43.8	0.002	0.02	14.50	32.4	<1	0.5	126.5	0.13	<0.05	1.08	0.269	0.26	0.5	186
X419559		51.1	0.003	0.02	11.30	31.9	1	0.5	113.0	0.12	<0.05	1.22	0.269	0.22	0.5	182
X419560		44.8	0.003	0.02	11.20	31.5	<1	0.5	114.0	0.12	<0.05	1.10	0.273	0.23	0.5	181
X419561		43.2	<0.002	0.01	11.20	31.7	1	0.5	109.0	0.13	<0.05	1.25	0.286	0.22	0.6	187
X419562		48.9	0.002	0.05	36.9	30.7	<1	0.9	96.7	0.12	<0.05	1.35	0.273	0.24	0.7	190
X419563		0.8	<0.002	<0.01	0.17	0.3	<1	<0.2	1.4	<0.05	<0.05	0.02	<0.005	<0.02	<0.1	2
X419564		51.7	0.004	0.08	49.5	33.1	1	2.7	102.0	0.13	<0.05	1.28	0.278	0.29	0.7	193
X419565		53.1	0.002	0.01	10.45	36.8	<1	0.6	112.0	0.17	<0.05	1.29	0.354	0.23	0.6	207
X419566		49.8	<0.002	0.01	12.55	36.5	<1	0.5	107.0	0.14	<0.05	1.13	0.336	0.23	0.5	205
X419567		51.2	<0.002	0.02	13.55	36.7	1	0.5	104.5	0.11	<0.05	1.06	0.279	0.25	0.4	189
X419568		53.8	<0.002	0.02	12.65	36.2	<1	0.5	112.0	0.12	<0.05	1.16	0.280	0.25	0.5	191
X419569		45.9	<0.002	0.01	10.90	33.6	<1	0.6	115.0	0.12	<0.05	1.21	0.270	0.23	0.6	180
X419570		44.0	0.002	0.02	11.85	32.8	1	0.5	106.0	0.12	<0.05	1.11	0.258	0.23	0.6	179



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Project: ODM Infill Samples

CERTIFICATE OF ANALYSIS SD18245122

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Cu-OG62	Ni-OG62	PUL-QC
		W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Cu %	Ni %	Pass75um %
		0.1	0.1	2	0.5	1	0.001	0.001	0.01
X419534		2.4	9.8	141	48.8		1.620	4.51	
X419535		0.3	14.5	91	37.7				
X419536		0.3	15.7	97	39.8				
X419537		0.4	17.3	123	39.8	138			
X419538		0.4	15.7	106	37.3				
X419539		0.4	16.5	108	38.3				
X419540		0.4	16.6	108	38.1				
X419541		0.3	15.4	104	35.1				
X419542		0.3	15.4	98	33.8				
X419543		<0.1	0.2	2	<0.5				
X419544		0.3	13.5	89	29.5				
X419545		0.3	15.1	96	34.5				
X419546		0.3	15.1	99	36.7				
X419547		0.3	14.6	93	39.7				
X419548		0.3	17.5	90	44.7				
X419549		0.3	20.4	85	59.4				
X419550		0.2	19.2	87	52.3				
X419551		0.3	16.2	111	41.0				
X419552		0.3	13.4	107	31.1				
X419553		0.3	14.4	111	32.1				
X419554		2.1	9.7	145	47.8		1.660	4.72	
X419555		0.3	15.5	102	35.6				
X419556		0.3	14.8	99	32.1				
X419557		0.3	14.4	98	36.2				
X419558		0.3	13.9	96	36.6				
X419559		0.3	15.0	92	39.6				
X419560		0.3	14.7	90	37.4				
X419561		0.3	16.5	84	44.4				
X419562		0.3	16.7	136	42.3	157			
X419563		<0.1	0.2	<2	<0.5				
X419564		0.3	16.7	146	42.6	213			
X419565		0.3	19.7	108	45.4				
X419566		0.3	16.0	101	39.6				
X419567		0.3	14.4	100	32.2				
X419568		0.3	15.1	97	37.2				
X419569		0.3	15.2	87	38.7				
X419570		0.3	14.8	91	36.5				



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Project: ODM Infill Samples

CERTIFICATE OF ANALYSIS SD18245122

	CERTIFICATE COMMENTS								
Applies to Method:	<p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>REE's may not be totally soluble in this method. ME-MS61</p>								
Applies to Method:	<p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">LOG-22</td> <td style="width: 33%;">LOG-23</td> <td style="width: 33%;">PUL-31</td> <td style="width: 15%;"></td> </tr> <tr> <td>SPL-21</td> <td>WEI-21</td> <td></td> <td>PUL-QC</td> </tr> </table>	LOG-22	LOG-23	PUL-31		SPL-21	WEI-21		PUL-QC
LOG-22	LOG-23	PUL-31							
SPL-21	WEI-21		PUL-QC						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Ag-OG62</td> <td style="width: 33%;">Cu-OG62</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 15%;"></td> </tr> <tr> <td>Ni-OG62</td> <td></td> <td></td> <td>ME-OG62</td> </tr> </table>	Ag-OG62	Cu-OG62	ME-MS61		Ni-OG62			ME-OG62
Ag-OG62	Cu-OG62	ME-MS61							
Ni-OG62			ME-OG62						



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CERTIFICATE SD18279219

Project: ODM Infill Samples
 P.O. No.: ODM #1596
 This report is for 60 Tailings samples submitted to our lab in Sudbury, ON, Canada on 5-NOV-2018.
 The following have access to data associated with this certificate:

SEUN AJBODE GEORDIE HAMILTON DAVID HOZJAN (ODM) FRANK PLOEGER ISAAC RIDDLE	PETER DOYLE MIKE HENDRICKSON MALLORY METCALF IAN PRINGLE CLYDE SMITH	JON EDWARDS SEAN HICKS SARAH MILLS MERCEDES RICH
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
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
Ag-OG62	Ore Grade Ag - Four Acid
ME-OG62	Ore Grade Elements - Four Acid ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid
Ni-OG62	Ore Grade Ni - Four Acid
ME-MS61	48 element four acid 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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CERTIFICATE OF ANALYSIS SD18279219

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Units		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
LOD		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
X419631		0.04	3.96	5.28	11.7	110	0.53	0.81	3.35	2.07	16.00	922	267	0.77	>10000	17.05
X419632		0.91	48.4	7.18	503	150	0.59	4.36	7.28	0.13	16.95	151.5	206	1.03	86.2	6.12
X419633		0.94	34.2	6.92	585	160	0.70	2.89	6.99	0.13	19.75	150.5	202	1.20	78.6	6.37
X419634		0.86	30.9	7.15	577	140	0.71	2.12	7.15	0.12	16.65	131.5	238	1.21	71.4	5.96
X419635		0.93	37.2	7.34	606	130	0.74	3.35	7.51	0.13	17.05	135.5	231	1.08	75.4	5.94
X419636		0.85	56.1	7.19	316	200	0.87	2.47	5.89	0.14	32.2	105.0	140	1.38	68.8	7.35
X419637		0.90	31.3	7.12	511	180	0.76	2.22	6.79	0.12	24.1	123.5	185	1.22	57.4	6.43
X419638		0.84	36.1	7.11	487	160	0.66	3.94	6.93	0.13	17.50	121.0	200	1.16	67.5	5.91
X419639		0.76	36.8	7.49	603	150	0.64	4.26	7.24	0.12	18.75	154.5	205	1.30	66.0	6.08
X419640		0.07	0.51	0.08	8.6	<10	0.19	0.06	0.07	<0.02	0.41	2.4	9	0.10	16.8	1.03
X419641		0.88	31.9	7.31	427	160	0.70	4.33	6.91	0.15	17.65	121.0	192	1.22	77.4	6.05
X419642		0.88	37.4	7.18	447	140	0.75	4.34	7.26	0.13	16.00	144.5	225	1.20	77.4	6.01
X419643		0.91	76.9	7.12	468	140	0.68	3.55	7.21	0.12	16.35	136.0	213	1.10	75.5	6.05
X419644		0.86	55.3	7.45	719	150	0.79	4.47	7.22	0.13	16.40	156.0	200	1.19	69.1	6.09
X419645		0.89	37.3	7.77	614	160	0.69	3.52	6.90	0.12	17.45	125.5	168	1.14	72.2	5.79
X419646		0.82	22.6	7.10	1245	140	0.74	8.55	7.95	0.07	25.1	219	172	1.34	42.7	6.79
X419647		0.86	>100	7.26	2450	160	0.74	51.4	7.81	0.31	22.6	595	214	1.44	222	6.73
X419648		1.03	56.5	7.05	726	160	0.65	7.10	7.21	0.17	15.80	196.5	217	1.23	97.2	6.19
X419649		0.86	>100	7.24	1375	150	0.69	21.2	7.42	0.16	15.85	362	199	1.16	109.5	6.68
X419650		0.88	>100	7.07	1540	150	0.65	20.8	7.27	0.15	15.30	404	200	1.11	109.5	6.53
X419651		0.04	4.11	5.41	14.4	110	0.59	0.92	3.44	2.15	17.20	945	276	0.78	>10000	17.55
X419652		0.90	>100	7.21	1520	150	0.67	31.4	7.36	0.14	17.35	356	204	1.14	102.0	6.65
X419653		0.96	79.1	7.20	733	140	0.66	5.81	6.99	0.15	15.75	172.5	186	1.14	88.7	6.09
X419654		0.95	83.5	7.22	1160	150	0.73	7.12	7.23	0.14	16.70	251	193	1.23	105.5	6.45
X419655		0.94	52.7	7.05	1025	150	0.62	5.26	7.16	0.14	16.90	190.5	202	1.17	93.8	6.39
X419656		0.88	33.0	7.22	618	160	0.64	3.64	6.94	0.12	16.65	111.0	171	1.16	70.2	5.88
X419657		0.92	52.2	7.28	734	170	0.71	5.42	7.03	0.13	20.6	123.5	170	1.15	74.2	6.51
X419658		0.83	32.0	7.29	828	160	0.75	3.54	7.08	0.11	19.95	143.0	161	1.24	64.4	6.33
X419659		0.77	27.4	7.37	518	170	0.66	4.78	6.90	0.14	17.25	109.5	179	1.24	77.8	6.14
X419660		0.11	0.30	0.06	4.8	<10	0.11	0.02	0.05	<0.02	0.16	1.1	6	0.10	1.7	0.69
X419661		0.77	35.2	7.55	714	170	0.65	6.39	7.70	0.10	21.5	157.0	180	1.56	78.0	6.28
X419662		0.82	85.0	7.33	856	160	0.84	8.66	8.51	0.15	25.7	251	145	1.62	189.5	6.41
X419663		0.70	>100	6.83	2520	140	0.90	34.1	8.50	0.26	30.5	706	159	1.87	303	6.91
X419664		0.89	89.2	7.20	905	140	0.68	15.50	7.59	0.17	16.00	300	230	1.25	93.9	6.46
X419665		0.94	87.8	7.22	1410	140	0.66	10.90	7.68	0.16	15.35	410	243	1.21	96.5	6.61
X419666		0.91	>100	7.26	1255	130	0.65	14.20	7.76	0.15	15.65	292	212	1.21	92.6	6.20
X419667		0.90	73.5	7.65	1125	160	0.68	6.10	7.62	0.15	16.55	227	161	1.29	97.4	6.72
X419668		0.96	66.3	7.53	1035	150	0.67	6.32	7.71	0.16	15.75	223	179	1.22	94.7	6.62
X419669		0.95	79.3	7.56	1260	150	0.77	8.47	7.58	0.15	16.70	285	206	1.33	88.9	6.56
X419670		0.76	46.8	7.85	940	160	0.74	3.88	7.50	0.13	17.10	148.0	167	1.24	70.8	6.40



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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
Units		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
LOD		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
X419631		12.05	0.28	1.3	0.117	0.31	6.9	8.3	3.82	948	4.67	1.13	5.1	>10000	450	13.1
X419632		13.85	0.05	1.1	0.068	1.13	7.2	35.8	4.68	1400	0.60	1.67	1.7	158.0	170	71.6
X419633		13.95	0.05	1.3	0.076	1.17	8.7	36.5	4.53	1430	0.75	1.70	2.2	141.0	220	72.1
X419634		13.70	0.06	1.1	0.068	1.11	7.4	38.0	4.88	1380	1.13	1.68	1.7	154.0	180	82.0
X419635		13.80	<0.05	1.1	0.068	1.14	7.4	36.8	4.75	1360	2.45	1.74	1.6	144.5	170	74.3
X419636		17.75	0.08	2.1	0.101	1.12	13.2	29.7	3.54	1360	1.15	2.40	3.9	101.0	350	61.2
X419637		15.50	0.08	1.6	0.080	1.17	10.4	35.4	4.23	1380	1.59	1.92	2.6	119.0	260	67.3
X419638		14.25	0.05	1.2	0.069	1.20	7.7	37.4	4.47	1320	0.57	1.79	1.8	140.0	220	64.1
X419639		14.55	<0.05	1.2	0.071	1.16	8.1	41.0	4.67	1350	2.51	1.74	1.8	144.5	220	83.1
X419640		0.34	<0.05	<0.1	<0.005	0.01	<0.5	11.6	0.04	114	0.35	0.02	0.1	11.4	<10	1.2
X419641		14.05	0.05	1.2	0.067	1.23	7.4	37.5	4.54	1390	0.56	1.75	1.9	145.0	180	69.3
X419642		13.55	0.05	1.1	0.065	1.18	7.0	37.6	4.98	1420	0.65	1.65	1.8	156.0	160	83.4
X419643		13.30	0.05	1.1	0.068	1.11	7.2	35.5	4.85	1390	0.61	1.70	1.8	140.5	160	74.8
X419644		14.20	0.06	1.1	0.070	1.21	7.2	38.8	4.75	1400	1.09	1.77	1.7	138.0	160	79.3
X419645		14.75	0.06	1.2	0.066	1.33	7.3	36.3	4.28	1300	1.46	1.89	1.6	114.5	190	80.1
X419646		14.95	0.06	1.6	0.090	1.10	11.3	43.5	4.66	1440	2.42	1.69	2.0	127.0	320	61.1
X419647		14.75	0.05	1.2	0.093	1.19	10.2	46.4	4.92	1480	4.23	1.60	1.6	288	250	322
X419648		13.20	<0.05	1.1	0.070	1.25	6.7	37.8	5.05	1470	0.65	1.61	1.8	161.5	140	92.4
X419649		13.55	<0.05	1.1	0.069	1.21	6.8	34.3	5.24	1510	0.87	1.63	2.1	190.0	170	92.9
X419650		13.35	0.05	1.1	0.077	1.17	6.5	33.7	5.10	1470	0.79	1.62	2.1	191.5	160	94.4
X419651		11.70	0.29	1.3	0.121	0.31	7.3	8.3	3.94	984	4.79	1.16	5.0	>10000	450	13.6
X419652		13.90	0.07	1.2	0.077	1.16	7.5	36.0	5.06	1500	0.81	1.72	2.3	204	170	86.6
X419653		13.15	0.05	1.1	0.069	1.18	6.7	35.7	4.78	1390	0.72	1.65	1.8	144.0	160	79.2
X419654		13.70	<0.05	1.2	0.073	1.24	7.1	36.9	4.96	1500	0.90	1.70	2.0	159.0	160	101.0
X419655		13.60	<0.05	1.1	0.071	1.27	7.3	33.4	4.89	1460	0.99	1.62	2.0	142.5	160	89.9
X419656		14.00	0.05	1.1	0.065	1.30	7.2	35.3	4.34	1290	1.78	1.73	1.6	114.5	170	65.2
X419657		14.50	0.06	1.4	0.080	1.28	9.6	35.3	4.43	1410	1.91	1.84	2.3	118.5	240	76.4
X419658		14.55	0.05	1.4	0.074	1.19	8.4	37.3	4.42	1440	1.84	1.95	2.1	115.0	230	86.6
X419659		13.85	0.08	1.2	0.071	1.41	7.3	37.5	4.55	1380	1.83	1.82	1.7	120.5	170	89.1
X419660		0.27	<0.05	<0.1	<0.005	0.01	<0.5	11.0	0.03	79	0.17	0.01	0.1	3.5	<10	0.8
X419661		14.70	0.06	1.1	0.078	1.31	8.9	45.1	4.66	1440	2.38	1.70	1.6	135.0	240	97.6
X419662		16.25	0.06	1.4	0.113	1.19	11.8	47.3	3.98	1530	4.17	1.89	1.9	148.5	280	108.5
X419663		15.90	0.07	1.4	0.125	1.08	14.2	53.0	4.27	1570	6.93	1.56	1.6	258	280	123.0
X419664		12.60	0.10	1.1	0.075	1.19	7.0	37.0	5.48	1510	0.97	1.62	1.9	192.5	170	113.5
X419665		12.80	0.08	1.1	0.073	1.18	6.5	40.8	5.45	1570	0.60	1.59	1.9	213	160	89.0
X419666		12.20	0.10	1.0	0.071	1.19	6.9	38.4	5.30	1480	0.71	1.60	1.7	181.5	150	87.4
X419667		13.65	0.10	1.1	0.075	1.32	7.1	39.7	5.21	1550	0.99	1.74	2.0	156.0	170	93.8
X419668		12.80	0.10	1.1	0.073	1.22	6.9	37.0	5.34	1540	0.76	1.76	1.9	157.5	160	109.5
X419669		13.65	0.11	1.0	0.079	1.20	7.5	42.6	5.39	1520	0.92	1.79	2.1	179.5	180	93.5
X419670		14.30	0.10	1.2	0.076	1.30	7.6	41.8	4.91	1440	0.80	1.83	1.9	137.5	190	82.8



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Project: ODM Infill Samples

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
LOD		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
X419631		10.1	0.051	7.92	2.95	9.1	22	2.5	179.0	0.32	4.30	0.97	0.512	0.15	0.3	75
X419632		44.3	0.002	0.02	9.25	37.3	1	0.5	105.0	0.13	<0.05	1.16	0.305	0.23	0.5	188
X419633		46.5	<0.002	0.02	10.50	38.9	1	0.5	107.0	0.15	<0.05	1.27	0.346	0.24	0.5	195
X419634		44.9	0.002	0.02	15.25	37.7	1	0.5	104.0	0.13	<0.05	1.07	0.283	0.21	0.5	180
X419635		46.4	0.002	0.02	14.80	37.0	1	0.5	98.8	0.12	<0.05	1.14	0.273	0.22	0.5	184
X419636		47.9	0.002	0.02	9.60	36.8	1	1.0	106.5	0.29	<0.05	2.32	0.592	0.20	1.1	187
X419637		46.6	0.002	0.02	10.90	36.8	1	0.7	110.0	0.20	<0.05	1.62	0.383	0.24	0.8	186
X419638		39.9	<0.002	0.01	9.64	34.5	1	0.5	104.5	0.14	<0.05	1.24	0.296	0.24	0.5	170
X419639		45.1	0.003	0.02	11.55	34.5	1	0.6	104.0	0.13	<0.05	1.27	0.281	0.22	0.6	170
X419640		0.7	<0.002	0.01	0.18	0.3	1	<0.2	1.4	<0.05	<0.05	0.04	0.005	<0.02	<0.1	2
X419641		53.0	0.002	0.01	9.32	36.9	1	0.6	104.5	0.15	<0.05	1.18	0.327	0.25	0.5	181
X419642		48.7	<0.002	0.01	11.30	38.6	1	0.5	103.0	0.13	<0.05	1.06	0.288	0.25	0.5	183
X419643		45.9	<0.002	0.01	11.90	39.1	1	0.5	104.0	0.13	<0.05	1.09	0.290	0.22	0.5	186
X419644		48.5	<0.002	0.01	14.45	37.5	1	0.5	110.0	0.13	<0.05	1.12	0.282	0.22	0.5	185
X419645		52.5	<0.002	0.02	13.95	34.8	1	0.5	116.0	0.13	<0.05	1.16	0.260	0.24	0.5	173
X419646		44.0	0.002	0.01	12.00	33.9	1	0.6	102.5	0.16	<0.05	1.60	0.309	0.19	0.7	192
X419647		50.2	0.005	0.06	46.3	33.8	1	0.7	95.4	0.13	<0.05	1.34	0.256	0.22	0.7	181
X419648		50.7	<0.002	0.02	11.80	40.3	1	0.5	102.0	0.13	<0.05	1.05	0.310	0.25	0.4	194
X419649		51.4	<0.002	0.02	24.8	42.2	1	0.6	107.5	0.15	<0.05	1.05	0.357	0.24	0.5	216
X419650		50.7	<0.002	0.02	21.7	41.1	1	0.6	106.5	0.14	<0.05	1.10	0.350	0.24	0.5	209
X419651		10.1	0.048	8.15	3.50	8.7	22	2.5	181.0	0.32	4.51	1.04	0.520	0.17	0.3	77
X419652		50.6	<0.002	0.03	19.85	43.2	1	0.6	114.5	0.16	<0.05	1.16	0.360	0.22	0.5	215
X419653		49.5	<0.002	0.02	12.90	38.9	1	0.5	105.5	0.14	<0.05	1.04	0.303	0.21	0.4	190
X419654		51.6	0.002	0.02	17.35	40.4	1	0.6	103.5	0.14	<0.05	1.10	0.345	0.23	0.5	207
X419655		52.5	0.002	0.02	16.20	40.4	1	0.5	99.7	0.14	<0.05	1.20	0.343	0.24	0.5	207
X419656		43.3	0.002	0.02	13.75	34.9	<1	0.5	107.0	0.13	<0.05	1.14	0.264	0.25	0.5	177
X419657		49.6	0.002	0.02	11.95	38.0	1	0.6	116.0	0.18	<0.05	1.33	0.349	0.23	0.6	201
X419658		48.2	0.002	0.01	12.70	36.0	<1	0.6	107.5	0.17	<0.05	1.21	0.346	0.21	0.6	197
X419659		50.9	0.002	0.02	12.30	36.2	1	0.5	109.5	0.14	<0.05	1.14	0.286	0.25	0.5	185
X419660		0.6	<0.002	<0.01	0.15	0.2	1	<0.2	1.1	<0.05	<0.05	0.02	<0.005	<0.02	<0.1	1
X419661		55.0	0.002	0.02	14.30	34.0	1	0.7	106.0	0.13	<0.05	1.24	0.261	0.26	0.6	178
X419662		51.6	0.004	0.05	28.7	33.0	1	0.7	89.9	0.15	<0.05	1.89	0.261	0.22	1.2	166
X419663		47.7	0.005	0.07	49.9	31.6	1	0.7	92.4	0.13	<0.05	1.75	0.260	0.24	1.4	187
X419664		52.3	<0.002	0.02	15.90	40.2	1	0.5	98.7	0.13	<0.05	1.16	0.320	0.24	0.5	206
X419665		53.0	<0.002	0.02	20.1	40.9	1	0.6	99.1	0.13	<0.05	1.08	0.349	0.25	0.5	217
X419666		52.2	<0.002	0.02	18.15	40.0	1	0.5	94.9	0.11	<0.05	1.00	0.291	0.25	0.4	196
X419667		58.2	<0.002	0.02	18.65	41.3	1	0.6	110.5	0.13	<0.05	1.20	0.333	0.24	0.5	211
X419668		53.3	0.002	0.02	18.15	40.6	1	0.5	104.5	0.12	<0.05	1.11	0.316	0.25	0.5	208
X419669		53.2	0.002	0.02	19.75	43.2	<1	0.6	112.0	0.14	<0.05	1.08	0.321	0.23	0.5	204
X419670		57.8	<0.002	0.01	14.00	39.1	<1	0.6	118.0	0.13	<0.05	1.28	0.299	0.26	0.6	193



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 Account: BMRPLLBW

Project: ODM Infill Samples

CERTIFICATE OF ANALYSIS SD18279219

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Cu-OG62	Ni-OG62	PUL-QC
		W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Cu %	Ni %	Pass75um %
		0.1	0.1	2	0.5	1	0.001	0.001	0.01
X419631		2.2	9.7	136	53.5		1.595	4.47	
X419632		0.3	17.0	96	39.4				95.2
X419633		0.3	18.1	97	47.4				85.7
X419634		0.3	15.5	93	41.4				
X419635		0.3	15.4	90	39.4				
X419636		0.4	22.8	96	77.0				
X419637		0.6	19.5	90	59.5				
X419638		0.3	15.6	90	42.5				
X419639		0.4	17.0	97	45.7				
X419640		<0.1	0.2	2	<0.5				
X419641		0.3	15.7	95	42.0				
X419642		0.3	15.6	95	38.8				
X419643		0.3	15.7	90	40.0				
X419644		0.3	15.6	93	40.8				
X419645		0.2	15.6	88	41.9				
X419646		0.4	20.9	90	56.2				
X419647		0.4	18.8	160	45.1	162			
X419648		0.3	15.7	107	36.7				
X419649		0.3	15.9	102	38.3	295			
X419650		0.4	15.8	99	39.8	416			
X419651		2.5	9.0	136	50.9		1.565	4.46	
X419652		0.3	16.6	96	41.2	120			
X419653		0.3	15.1	95	38.2				
X419654		0.3	16.2	103	40.7				
X419655		0.3	16.0	97	39.0				
X419656		0.3	15.4	88	40.0				
X419657		0.3	18.3	95	51.6				
X419658		0.3	17.8	97	48.1				
X419659		0.3	15.9	97	40.4				
X419660		<0.1	0.2	<2	<0.5				
X419661		0.3	17.7	99	41.0				
X419662		0.4	23.9	102	50.2				
X419663		0.3	24.6	143	47.5	162			
X419664		0.3	15.4	114	39.2				
X419665		0.3	15.0	103	37.6	105			
X419666		0.3	14.9	97	34.1	136			
X419667		0.3	16.2	101	40.7				
X419668		0.3	15.0	108	37.8				
X419669		0.3	16.0	107	39.8				
X419670		0.3	16.1	97	44.1				87.2



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Project: ODM Infill Samples

CERTIFICATE OF ANALYSIS SD18279219

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Recvd Wt. kg	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 %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
X419671		0.05	4.08	5.47	15.6	120	0.54	0.92	3.56	2.16	17.90	984	249	0.80	>10000	18.10
X419672		0.93	42.9	7.55	921	160	0.66	4.81	7.15	0.12	19.25	129.5	175	1.12	86.6	6.68
X419673		0.84	54.4	7.39	827	180	0.72	3.65	7.40	0.15	20.5	134.5	185	1.23	84.8	7.25
X419674		0.82	50.6	7.42	836	180	0.65	3.36	7.40	0.15	19.90	131.0	180	1.23	82.4	7.19
X419675		0.84	27.1	7.70	827	180	0.70	5.19	7.22	0.12	20.7	130.0	157	1.35	64.3	6.71
X419676		0.89	56.6	7.57	765	170	0.68	4.83	7.24	0.15	20.7	143.0	146	1.41	85.7	6.90
X419677		0.84	25.2	7.90	483	180	0.67	6.43	7.17	0.12	18.85	91.4	138	1.21	64.4	6.83
X419678		0.85	24.2	8.16	381	190	0.67	5.04	6.89	0.14	18.60	81.4	120	1.28	67.5	6.48
X419679		0.81	22.1	8.28	342	190	0.72	4.93	6.81	0.13	20.1	76.2	121	1.28	63.7	6.37
X419680		0.09	0.35	0.09	5.9	<10	0.12	0.09	0.08	<0.02	0.30	1.4	7	0.11	4.8	0.92
X419681		0.92	75.6	7.30	2030	160	0.77	8.19	7.50	0.14	20.3	309	201	1.28	107.0	7.06
X419682		0.91	62.7	7.37	1350	170	0.75	17.35	7.38	0.14	20.9	227	201	1.34	91.5	6.90
X419683		0.85	61.8	7.42	897	180	0.74	5.47	7.29	0.15	19.60	159.5	188	1.33	87.8	6.83
X419684		0.80	45.4	7.72	687	180	0.63	4.27	7.17	0.17	20.2	111.5	140	1.34	80.2	6.87
X419685		0.82	29.4	7.82	743	180	0.70	5.78	7.36	0.14	19.85	128.0	152	1.42	78.0	6.68
X419686		0.79	17.45	8.15	576	170	0.78	4.88	7.44	0.10	21.0	99.4	142	1.42	57.9	6.26
X419687		0.81	27.0	7.95	554	180	0.68	4.00	7.45	0.12	18.60	102.0	162	1.37	66.8	6.46
X419688		0.83	32.7	7.81	419	190	0.64	4.61	7.43	0.11	18.15	106.0	160	1.40	68.7	6.14
X419689		0.77	16.25	8.17	528	180	0.62	4.31	7.72	0.09	19.20	104.5	152	1.16	44.5	6.36
X419690		0.85	17.65	7.84	498	180	0.65	4.09	7.47	0.10	20.4	104.0	146	1.20	45.8	6.10



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CERTIFICATE OF ANALYSIS SD18279219

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		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
X419671		12.00	0.34	1.3	0.131	0.32	7.6	8.7	4.06	1000	4.63	1.20	5.3	>10000	480	14.1
X419672		13.00	0.10	1.3	0.073	1.24	8.2	36.0	4.82	1480	1.32	1.88	2.4	142.5	250	83.7
X419673		14.05	0.11	1.5	0.086	1.30	8.7	38.0	5.05	1590	2.00	1.80	3.1	138.0	270	84.6
X419674		13.85	0.10	1.5	0.083	1.31	8.6	37.0	5.03	1600	2.09	1.81	3.0	136.5	260	84.7
X419675		14.75	0.10	1.4	0.079	1.24	9.1	41.8	4.70	1460	2.18	1.99	2.2	118.5	260	81.6
X419676		14.55	0.09	1.3	0.090	1.36	9.2	41.7	4.81	1560	2.23	1.89	2.5	121.0	230	95.7
X419677		14.10	0.10	1.3	0.082	1.42	8.2	36.7	4.55	1500	1.66	2.02	2.5	104.5	250	75.6
X419678		14.80	0.12	1.5	0.076	1.43	8.3	38.6	4.24	1420	1.78	2.13	2.3	101.5	260	78.7
X419679		15.45	0.12	1.4	0.079	1.47	8.8	40.1	4.13	1380	1.71	2.19	2.3	97.0	260	79.1
X419680		0.35	<0.05	<0.1	0.005	0.02	<0.5	11.4	0.05	110	0.34	0.02	0.1	4.0	10	2.0
X419681		13.50	0.10	1.3	0.086	1.22	8.6	37.1	5.25	1560	0.87	1.75	2.7	169.0	230	93.4
X419682		14.05	0.10	1.4	0.083	1.23	9.1	40.6	5.05	1580	0.80	1.84	2.7	154.5	230	98.3
X419683		14.05	0.13	1.3	0.083	1.24	8.5	39.4	4.95	1550	0.82	1.90	2.6	138.0	240	99.4
X419684		14.70	0.11	1.5	0.082	1.36	8.8	37.9	4.56	1480	1.19	1.98	2.4	111.0	240	90.9
X419685		14.35	0.10	1.4	0.078	1.38	8.7	40.2	4.74	1450	2.03	1.96	2.2	120.0	240	93.3
X419686		14.65	0.11	1.3	0.081	1.43	9.1	43.5	4.47	1430	2.16	2.05	2.0	108.0	230	78.3
X419687		14.15	0.11	1.2	0.079	1.46	8.2	41.9	4.79	1440	1.85	1.90	1.8	116.0	210	90.6
X419688		13.95	0.11	1.1	0.077	1.47	7.9	43.0	4.69	1410	1.63	1.78	1.5	118.5	200	93.0
X419689		14.05	0.11	1.4	0.074	1.46	8.5	38.9	4.38	1440	1.09	2.02	1.9	108.0	260	56.4
X419690		14.55	0.11	1.4	0.076	1.40	8.8	40.2	4.22	1390	1.29	1.93	1.9	107.0	250	58.3

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



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Project: ODM Infill Samples

CERTIFICATE OF ANALYSIS SD18279219

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		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
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
X419671		11.3	0.044	8.68	3.11	9.1	22	2.6	186.0	0.32	4.03	1.08	0.527	0.18	0.3	80
X419672		52.0	<0.002	0.03	15.00	36.8	1	0.5	109.5	0.16	<0.05	1.22	0.368	0.24	0.6	207
X419673		58.0	0.002	0.03	17.05	42.4	<1	0.6	121.0	0.20	<0.05	1.38	0.437	0.23	0.6	236
X419674		57.3	0.002	0.03	16.55	40.5	1	0.7	118.0	0.19	<0.05	1.48	0.426	0.24	0.6	233
X419675		56.8	<0.002	0.02	13.20	36.9	1	0.6	116.5	0.14	<0.05	1.39	0.323	0.23	0.7	204
X419676		63.1	0.002	0.03	14.45	41.7	1	0.6	114.0	0.17	<0.05	1.35	0.374	0.25	0.6	218
X419677		60.3	0.002	0.02	13.35	38.4	<1	0.6	121.0	0.16	<0.05	1.32	0.384	0.26	0.6	216
X419678		62.9	<0.002	0.02	13.05	36.5	1	0.5	125.5	0.16	<0.05	1.36	0.339	0.27	0.6	197
X419679		62.3	<0.002	0.02	12.40	36.4	<1	0.6	127.5	0.15	<0.05	1.44	0.317	0.28	0.6	191
X419680		1.2	<0.002	<0.01	0.24	0.4	<1	<0.2	1.7	<0.05	<0.05	0.02	0.005	<0.02	<0.1	3
X419681		52.2	<0.002	0.02	18.30	41.3	1	0.6	109.5	0.17	<0.05	1.23	0.413	0.21	0.6	227
X419682		54.7	<0.002	0.02	14.90	40.1	1	0.6	111.5	0.17	<0.05	1.33	0.394	0.24	0.6	222
X419683		56.7	<0.002	0.02	14.55	40.6	<1	0.6	115.5	0.17	<0.05	1.31	0.392	0.25	0.6	219
X419684		62.4	<0.002	0.02	15.00	39.1	<1	0.6	115.5	0.17	<0.05	1.52	0.365	0.27	0.7	215
X419685		60.6	<0.002	0.02	16.50	37.6	<1	0.6	113.0	0.15	<0.05	1.32	0.332	0.24	0.6	203
X419686		63.2	<0.002	0.01	10.25	35.5	<1	0.6	118.0	0.13	<0.05	1.31	0.294	0.26	0.7	186
X419687		63.6	<0.002	0.02	11.50	37.0	<1	0.6	116.5	0.13	<0.05	1.30	0.290	0.27	0.6	190
X419688		66.1	<0.002	0.02	13.45	35.7	<1	0.6	115.0	0.11	<0.05	1.14	0.246	0.29	0.5	182
X419689		61.5	<0.002	0.01	7.65	34.1	<1	0.6	115.0	0.15	<0.05	1.52	0.299	0.27	0.7	190
X419690		62.7	0.002	0.01	7.84	35.7	<1	0.6	113.5	0.13	<0.05	1.52	0.290	0.28	0.7	185



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CERTIFICATE OF ANALYSIS SD18279219

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Cu-OG62	Ni-OG62	PUL-QC
		W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Cu %	Ni %	Pass75um %
		0.1	0.1	2	0.5	1	0.001	0.001	0.01
X419671		2.4	10.1	144	52.8		1.570	4.39	
X419672		0.3	17.2	101	46.8				
X419673		0.3	20.4	104	55.8				
X419674		0.3	19.2	102	54.2				
X419675		0.3	18.1	103	51.0				
X419676		0.3	19.0	109	49.5				
X419677		0.3	17.8	100	49.7				
X419678		0.3	17.3	106	52.8				
X419679		0.3	18.3	105	51.4				
X419680		<0.1	0.3	2	0.5				
X419681		0.3	18.5	105	48.2				
X419682		0.3	19.0	106	48.5				
X419683		0.3	18.9	108	50.2				
X419684		0.3	18.5	106	53.0				
X419685		0.3	18.0	102	48.5				
X419686		0.3	18.0	89	48.0				
X419687		0.3	17.0	99	43.3				
X419688		0.3	17.1	98	37.7				
X419689		0.3	17.5	88	51.4				
X419690		0.3	17.7	85	51.0				



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CERTIFICATE OF ANALYSIS SD18279219

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.
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-OG62 Cu-OG62 ME-MS61 ME-OG62
Ni-OG62



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CERTIFICATE SD18285905

Project: ODM Infill Samples
 P.O. No.: ODM #1600
 This report is for 60 Tailings samples submitted to our lab in Sudbury, ON, Canada on 12-NOV-2018.
 The following have access to data associated with this certificate:

SEUN AJBODE GEORDIE HAMILTON DAVID HOZJAN (ODM) FRANK PLOEGER ISAAC RIDDLE	PETER DOYLE MIKE HENDRICKSON MALLORY METCALF IAN PRINGLE CLYDE SMITH	JON EDWARDS SEAN HICKS SARAH MILLS MERCEDES RICH
--	--	---

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
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
Ag-OG62	Ore Grade Ag - Four Acid
ME-OG62	Ore Grade Elements - Four Acid
Cu-OG62	Ore Grade Cu - Four Acid
Ni-OG62	Ore Grade Ni - Four Acid
ME-MS61	48 element four acid 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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CERTIFICATE OF ANALYSIS SD18285905

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Units		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
LOD		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
X419691		0.08	3.95	5.23	14.0	110	0.61	0.76	3.47	1.90	16.95	944	259	0.77	>10000	17.30
X419692		0.94	66.6	6.98	1350	160	0.73	12.80	7.13	0.15	17.20	296	171	1.25	121.5	6.65
X419693		0.91	61.3	6.92	816	160	0.81	6.85	6.89	0.14	15.35	201	150	1.20	103.0	6.23
X419694		0.88	48.8	7.06	982	150	0.76	9.31	7.50	0.14	19.20	185.0	173	1.16	96.4	6.43
X419695		0.89	55.4	7.05	1090	160	0.75	6.81	7.20	0.13	18.50	234	184	1.16	98.9	6.82
X419696		0.83	75.0	7.03	1690	150	0.80	11.25	7.03	0.13	17.90	295	172	1.35	106.0	6.47
X419697		0.78	44.4	7.02	1140	140	0.82	4.20	7.29	0.15	17.00	168.0	193	1.34	99.1	6.52
X419698		0.77	26.3	7.82	575	180	0.78	3.81	7.39	0.11	17.85	107.5	135	1.29	65.0	6.31
X419699		0.84	25.2	7.55	661	180	0.72	5.84	7.55	0.10	19.10	122.0	166	1.23	63.4	6.20
X419700		0.16	0.19	0.06	3.8	<10	0.13	0.02	0.05	<0.02	0.22	0.8	8	0.10	4.2	0.88
X419701		0.88	16.95	7.68	423	180	0.72	5.90	7.17	0.12	15.70	91.5	171	1.09	75.2	5.98
X419702		0.80	92.5	6.35	287	290	1.10	2.41	4.11	0.06	44.2	72.6	94	0.51	82.1	7.09
X419703		0.89	>100	6.82	360	160	1.15	6.82	3.69	0.06	36.8	215	122	0.70	108.0	5.56
X419704		0.92	>100	7.17	1230	160	0.71	10.90	7.23	0.15	18.35	313	168	1.28	111.0	6.71
X419705		0.93	71.6	6.94	928	160	0.58	7.46	7.08	0.15	16.50	216	149	1.19	102.5	6.50
X419706		0.88	56.8	6.91	820	150	0.70	6.49	7.18	0.13	16.50	170.5	178	1.11	92.8	6.06
X419707		0.89	55.8	7.08	1000	160	0.73	8.37	7.20	0.12	19.65	205	192	1.17	87.6	6.79
X419708		0.91	74.2	6.90	1040	150	0.70	7.49	7.06	0.13	16.55	217	169	1.19	95.8	6.38
X419709		0.86	39.0	7.06	1160	150	0.82	5.32	7.07	0.15	17.90	169.5	165	1.30	93.7	6.50
X419710		0.84	37.8	6.99	1190	150	0.83	4.89	7.19	0.12	17.45	177.5	178	1.30	95.4	6.49
X419711		0.08	4.18	5.33	17.9	120	0.67	0.88	3.51	1.99	16.90	962	264	0.77	>10000	17.70
X419712		0.87	18.95	7.39	501	170	0.75	3.92	7.16	0.10	16.45	97.6	134	1.16	66.2	6.05
X419713		0.82	25.7	7.47	563	170	0.59	5.42	7.12	0.14	14.85	98.3	154	1.14	64.7	6.05
X419714		0.83	25.3	7.63	446	180	0.69	5.49	7.20	0.13	15.75	95.0	167	1.14	69.5	6.01
X419715		0.80	82.0	6.61	281	260	0.85	2.50	4.71	0.07	39.8	71.8	111	0.62	79.8	6.70
X419716		0.80	35.8	7.33	447	200	0.78	3.25	6.39	0.10	25.7	103.0	145	0.98	73.5	6.55
X419717		0.76	>100	7.12	389	110	1.14	8.39	3.04	0.07	36.0	313	123	0.80	123.5	4.95
X419718		0.91	36.3	7.23	561	150	0.58	4.70	7.13	0.13	15.65	140.0	185	1.20	77.6	5.98
X419719		0.94	29.8	7.21	486	160	0.52	4.03	7.10	0.12	15.55	123.5	190	1.09	69.1	5.81
X419720		0.10	0.36	0.10	5.9	<10	0.27	0.09	0.07	<0.02	0.33	1.9	17	0.13	5.1	1.80
X419721		1.01	34.5	7.43	939	160	0.66	7.85	7.25	0.11	18.30	147.5	174	1.19	77.4	6.02
X419722		0.97	61.3	7.05	768	160	0.72	9.26	6.85	0.15	18.55	135.0	220	1.12	81.4	6.44
X419723		0.91	17.05	7.29	716	160	0.58	5.36	7.27	0.08	16.85	114.0	166	1.07	48.9	6.07
X419724		0.94	19.25	7.79	901	190	0.62	4.52	7.78	0.09	19.05	127.5	154	1.13	45.0	6.31
X419725		0.94	19.85	7.26	853	170	0.58	5.19	7.43	0.11	17.95	136.5	160	1.09	51.9	6.06
X419726		0.86	19.20	7.34	644	170	0.59	3.67	7.23	0.10	16.45	109.5	164	1.05	54.0	5.95
X419727		0.78	36.7	7.33	605	150	0.68	5.19	7.18	0.12	16.05	153.5	192	1.24	69.9	5.85
X419728		0.88	33.5	7.76	380	180	0.68	3.55	6.90	0.13	19.05	106.0	160	1.25	70.2	6.41
X419729		0.90	45.5	7.36	225	160	0.45	1.74	7.71	0.12	12.05	113.0	231	0.87	65.2	5.99
X419730		0.87	40.9	7.46	371	160	0.59	3.15	7.43	0.12	13.90	139.0	213	1.00	62.9	5.84



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CERTIFICATE OF ANALYSIS SD18285905

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units LOD	ppm 0.05	ppm 0.05	ppm 0.1	ppm 0.005	% 0.01	ppm 0.5	ppm 0.2	% 0.01	ppm 5	ppm 0.05	% 0.01	ppm 0.1	ppm 0.2	ppm 10	ppm 0.5
X419691		11.60	0.41	1.2	0.113	0.31	7.0	9.9	3.90	977	4.49	1.16	4.7	>10000	460	12.0
X419692		13.60	0.09	1.1	0.075	1.24	7.6	40.4	4.87	1480	0.69	1.68	2.1	180.5	180	95.6
X419693		13.30	0.08	1.0	0.065	1.29	6.1	38.4	4.57	1370	0.61	1.59	1.8	138.5	160	79.1
X419694		13.50	0.08	1.1	0.077	1.20	8.7	40.3	4.78	1470	0.72	1.67	1.9	142.5	180	88.4
X419695		13.95	0.09	1.2	0.075	1.18	8.3	39.7	4.78	1480	0.70	1.78	2.4	153.0	220	94.7
X419696		13.30	0.08	1.1	0.082	1.23	8.1	42.9	4.87	1410	1.63	1.68	1.9	155.5	190	94.8
X419697		13.15	0.07	1.0	0.076	1.26	7.4	43.6	5.03	1450	2.59	1.61	1.9	149.0	170	98.5
X419698		14.75	0.08	1.1	0.068	1.42	8.4	46.2	4.42	1380	1.87	1.91	1.6	111.0	220	71.2
X419699		14.40	0.08	1.1	0.073	1.38	7.8	43.6	4.40	1400	1.60	1.78	1.7	115.5	200	73.7
X419700		0.28	<0.05	<0.1	<0.005	0.01	<0.5	12.0	0.03	98	0.32	0.01	0.1	4.5	<10	0.7
X419701		14.10	0.08	1.0	0.063	1.43	6.2	41.1	4.42	1320	1.13	1.79	1.5	125.0	180	69.3
X419702		17.85	0.11	3.8	0.077	0.64	19.4	27.4	2.18	881	2.29	3.13	5.9	54.4	520	83.6
X419703		16.20	0.09	2.3	0.061	0.66	17.2	33.0	2.76	787	1.93	3.06	3.8	119.5	420	46.1
X419704		13.95	0.09	1.1	0.079	1.30	8.0	41.7	4.88	1480	0.59	1.68	2.1	150.5	180	85.0
X419705		13.55	0.07	1.0	0.068	1.33	7.2	38.1	4.64	1440	0.77	1.60	1.9	133.5	170	75.2
X419706		12.60	0.08	0.9	0.069	1.17	6.8	38.7	4.74	1380	0.75	1.62	1.7	138.5	160	91.9
X419707		13.85	0.08	1.3	0.074	1.20	8.9	42.0	4.82	1480	0.75	1.75	2.5	150.0	230	85.1
X419708		13.15	0.07	1.1	0.073	1.22	6.5	41.3	4.77	1420	1.11	1.66	2.0	148.0	190	83.6
X419709		13.60	0.07	1.2	0.076	1.29	8.1	43.5	4.74	1430	2.34	1.70	2.1	138.5	200	91.8
X419710		13.15	0.07	1.1	0.078	1.25	7.9	43.5	4.85	1440	2.50	1.65	2.1	144.0	190	94.7
X419711		11.85	0.40	1.1	0.122	0.31	7.4	10.3	3.99	965	4.39	1.18	4.8	>10000	450	12.6
X419712		14.10	0.07	1.1	0.067	1.34	7.4	43.3	4.19	1340	1.71	1.84	1.6	130.0	210	69.2
X419713		13.30	0.06	1.1	0.077	1.42	6.7	40.1	4.32	1340	2.49	1.78	1.6	105.0	200	71.6
X419714		13.65	0.06	1.1	0.072	1.43	7.1	39.1	4.45	1380	2.13	1.81	1.6	113.0	190	78.4
X419715		16.15	0.07	3.2	0.076	0.81	15.5	27.0	2.66	980	2.11	2.84	5.0	61.6	470	78.0
X419716		14.90	0.07	2.0	0.079	1.15	11.1	37.2	3.84	1240	1.78	2.20	3.0	95.3	320	72.1
X419717		15.25	0.06	1.9	0.059	0.62	16.1	33.5	2.85	701	2.39	3.12	3.0	144.5	420	36.2
X419718		12.65	0.06	1.1	0.073	1.20	6.9	41.4	4.79	1380	0.39	1.68	1.7	138.0	180	75.9
X419719		12.85	0.06	1.0	0.073	1.29	6.9	36.9	4.71	1360	0.50	1.65	1.6	128.0	170	79.4
X419720		0.35	<0.05	<0.1	0.005	0.02	<0.5	10.8	0.05	202	0.57	0.03	0.1	6.9	10	1.4
X419721		13.30	0.05	1.1	0.086	1.25	8.2	38.2	4.60	1370	1.46	1.82	1.8	133.0	200	94.5
X419722		13.60	0.08	1.4	0.085	1.21	8.4	34.4	4.59	1390	1.86	1.80	2.3	122.0	240	91.1
X419723		12.75	0.07	1.3	0.078	1.30	7.7	34.9	4.27	1360	1.44	1.78	1.9	100.5	240	65.0
X419724		14.40	<0.05	1.2	0.081	1.40	8.6	38.8	4.45	1430	1.73	1.87	1.8	101.5	240	65.9
X419725		13.40	0.07	1.1	0.074	1.29	8.0	36.4	4.33	1400	1.61	1.73	1.7	104.5	220	70.9
X419726		13.20	0.06	1.1	0.076	1.33	7.5	35.1	4.31	1360	1.72	1.76	1.7	104.5	210	66.1
X419727		13.25	0.07	0.9	0.068	1.25	7.2	43.3	4.78	1360	0.39	1.65	1.4	141.5	180	66.8
X419728		14.95	0.06	1.4	0.077	1.35	8.6	36.7	4.39	1420	1.34	2.03	2.1	122.5	280	66.0
X419729		12.70	0.06	0.9	0.069	1.20	5.4	29.3	5.02	1400	0.43	1.63	1.6	130.0	150	36.4
X419730		13.35	0.05	1.0	0.068	1.24	6.3	33.5	4.53	1360	0.47	1.71	1.6	132.5	170	42.6



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Project: ODM Infill Samples

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
LOD		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
X419691		9.9	0.043	8.24	2.95	8.7	22	2.4	182.0	0.29	4.44	0.95	0.520	0.16	0.3	76
X419692		53.5	<0.002	0.03	14.15	41.4	1	0.6	102.0	0.14	<0.05	1.03	0.365	0.22	0.5	219
X419693		57.9	<0.002	0.02	12.50	39.4	<1	0.5	103.0	0.12	<0.05	1.00	0.322	0.24	0.5	201
X419694		52.7	<0.002	0.02	12.15	40.4	1	0.5	108.0	0.13	<0.05	1.07	0.332	0.23	0.5	204
X419695		52.7	<0.002	0.02	14.20	41.1	1	0.6	103.5	0.16	<0.05	1.13	0.408	0.21	0.6	223
X419696		51.3	<0.002	0.02	19.30	38.3	1	0.5	97.0	0.13	<0.05	0.97	0.335	0.22	0.5	202
X419697		54.1	<0.002	0.03	18.75	40.3	1	0.5	94.1	0.13	<0.05	0.94	0.342	0.21	0.6	202
X419698		61.1	<0.002	0.02	8.06	36.4	1	0.5	116.0	0.11	<0.05	1.13	0.289	0.24	0.5	187
X419699		63.5	<0.002	0.01	10.95	38.2	1	0.6	114.5	0.11	<0.05	1.08	0.290	0.27	0.6	190
X419700		0.7	<0.002	<0.01	0.10	0.2	<1	<0.2	1.2	<0.05	<0.05	0.03	<0.005	<0.02	<0.1	2
X419701		62.6	<0.002	0.02	7.44	37.1	1	0.5	113.0	0.11	<0.05	1.08	0.272	0.26	0.5	181
X419702		24.8	<0.002	0.03	4.24	27.1	1	1.1	64.7	0.44	<0.05	4.00	0.440	0.13	3.0	97
X419703		23.1	0.002	0.03	8.26	24.8	1	0.8	100.5	0.28	<0.05	2.94	0.331	0.13	1.7	121
X419704		58.0	<0.002	0.02	14.80	41.4	1	0.6	102.5	0.13	<0.05	1.06	0.367	0.25	0.5	219
X419705		58.3	<0.002	0.02	13.00	40.8	1	0.5	104.5	0.13	<0.05	1.07	0.346	0.24	0.5	210
X419706		51.8	<0.002	0.02	11.30	38.8	1	0.4	98.4	0.11	<0.05	0.93	0.303	0.22	0.5	192
X419707		54.4	<0.002	0.02	12.35	41.9	1	0.6	109.5	0.16	<0.05	1.11	0.405	0.22	0.5	219
X419708		53.7	<0.002	0.02	13.90	39.9	1	0.5	99.1	0.14	<0.05	1.01	0.342	0.23	0.5	204
X419709		55.9	<0.002	0.02	15.10	40.0	1	0.5	100.5	0.14	<0.05	1.08	0.358	0.23	0.5	203
X419710		55.1	<0.002	0.03	15.45	40.1	1	0.5	97.2	0.14	<0.05	1.03	0.356	0.22	0.5	206
X419711		10.1	0.046	8.42	2.68	8.8	22	2.4	185.5	0.29	4.28	0.92	0.525	0.16	0.3	78
X419712		50.0	<0.002	0.02	7.49	33.9	1	0.5	112.0	0.12	<0.05	1.07	0.286	0.24	0.5	181
X419713		53.1	<0.002	0.02	9.52	32.0	<1	0.6	112.5	0.12	<0.05	1.14	0.283	0.26	0.5	184
X419714		58.3	<0.002	0.02	9.89	33.5	1	0.5	113.5	0.11	<0.05	1.14	0.272	0.28	0.5	186
X419715		29.7	0.002	0.03	5.28	25.8	<1	0.9	73.2	0.38	<0.05	3.51	0.405	0.15	2.3	115
X419716		47.3	<0.002	0.02	7.67	29.6	<1	0.8	99.6	0.22	<0.05	2.10	0.328	0.23	1.2	161
X419717		18.7	0.003	0.04	10.95	18.8	<1	0.8	118.0	0.24	<0.05	2.92	0.279	0.15	1.2	125
X419718		47.8	<0.002	0.01	11.75	31.8	1	0.5	99.3	0.13	<0.05	1.12	0.293	0.26	0.5	175
X419719		52.2	<0.002	0.01	9.73	32.6	<1	0.5	106.5	0.11	<0.05	1.04	0.269	0.29	0.4	177
X419720		0.8	<0.002	<0.01	0.19	0.2	<1	<0.2	1.3	<0.05	<0.05	0.12	0.006	<0.02	<0.1	2
X419721		52.3	0.002	0.01	14.90	32.8	1	0.5	111.0	0.13	<0.05	1.14	0.286	0.24	0.5	184
X419722		47.7	0.002	0.02	13.70	33.5	<1	0.6	109.5	0.15	<0.05	1.26	0.358	0.24	0.5	201
X419723		51.9	<0.002	0.01	9.22	31.0	1	0.6	106.0	0.14	<0.05	1.19	0.312	0.23	0.5	188
X419724		60.3	0.002	0.01	10.05	33.2	<1	0.9	117.0	0.13	<0.05	1.25	0.302	0.28	0.6	193
X419725		57.1	<0.002	0.02	10.40	32.8	<1	0.7	108.5	0.12	<0.05	1.11	0.292	0.25	0.5	186
X419726		56.1	<0.002	0.02	8.62	31.9	<1	0.6	109.5	0.12	<0.05	1.11	0.291	0.28	0.5	185
X419727		47.3	<0.002	0.01	9.89	30.8	<1	0.5	97.5	0.10	<0.05	1.09	0.252	0.27	0.5	169
X419728		56.4	<0.002	0.02	10.95	31.9	<1	0.6	115.0	0.14	<0.05	1.57	0.345	0.29	0.7	181
X419729		52.9	<0.002	0.01	12.85	37.7	<1	0.4	107.5	0.10	<0.05	1.02	0.284	0.31	0.4	194
X419730		53.2	<0.002	0.01	10.25	33.6	<1	0.5	109.0	0.11	<0.05	1.07	0.270	0.26	0.4	184



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Project: ODM Infill Samples

CERTIFICATE OF ANALYSIS SD18285905

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Cu-OG62	Ni-OG62	PUL-QC
		W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Cu %	Ni %	Pass75um %
		0.1	0.1	2	0.5	1	0.001	0.001	0.01
X419691		2.2	9.6	141	48.3		1.650	4.68	
X419692		0.3	16.6	113	40.9				89.3
X419693		0.3	15.5	99	39.6				89.9
X419694		0.3	17.2	101	42.9				
X419695		0.3	17.8	103	49.8				
X419696		0.3	16.8	101	41.3				
X419697		0.2	16.3	103	39.8				
X419698		0.3	16.6	93	42.0				
X419699		0.3	17.6	88	43.3				
X419700		<0.1	0.2	3	<0.5				
X419701		0.3	15.3	91	41.3				
X419702		0.3	33.9	68	143.5				
X419703		0.4	20.3	55	91.4	135			
X419704		0.3	17.5	109	44.4	130			
X419705		0.3	16.1	101	40.9				
X419706		0.2	14.7	101	35.8				
X419707		0.3	18.7	98	49.1				
X419708		0.3	16.3	100	41.7				
X419709		0.3	17.7	101	45.5				
X419710		0.3	17.0	101	43.3				
X419711		2.0	9.9	138	51.7		1.615	4.56	
X419712		0.3	15.8	88	44.5				
X419713		0.3	14.6	90	37.8				
X419714		0.3	15.0	95	35.1				
X419715		0.3	28.9	73	116.0				
X419716		0.3	20.3	91	70.2				
X419717		0.6	13.5	51	63.4	165			
X419718		0.2	13.6	96	33.9				
X419719		0.3	13.8	96	34.0				
X419720		0.1	0.2	3	<0.5				
X419721		0.3	15.8	93	37.9				
X419722		0.3	16.9	95	46.1				
X419723		0.3	15.3	82	40.9				
X419724		0.3	16.8	86	43.8				
X419725		0.3	16.0	89	38.4				
X419726		0.3	15.1	87	37.2				
X419727		0.3	13.7	96	32.7				
X419728		1.1	16.0	96	48.5				
X419729		0.3	13.3	84	31.1				
X419730		0.3	13.8	84	35.4				98.8



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CERTIFICATE OF ANALYSIS SD18285905

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
X419731		0.08	3.78	5.15	14.0	110	0.49	0.84	3.35	2.11	15.30	927	249	0.76	>10000	16.95
X419732		0.87	41.1	7.13	416	150	0.46	3.01	7.17	0.09	13.20	140.0	209	0.96	64.4	5.58
X419733		0.87	42.3	7.50	843	150	0.58	5.12	7.76	0.14	17.40	168.0	189	1.09	79.5	6.03
X419734		0.68	46.5	7.33	772	150	0.53	5.35	7.52	0.16	16.70	169.5	190	1.11	82.8	6.23
X419735		0.87	32.2	6.99	709	150	0.64	4.12	6.88	0.11	14.70	113.5	169	1.11	70.5	5.79
X419736		0.80	22.5	7.18	553	180	0.51	3.57	7.15	0.11	14.10	96.8	183	1.09	63.3	6.04
X419737		0.85	36.5	7.23	713	170	0.58	4.45	7.17	0.12	16.85	136.0	168	1.10	68.9	6.02
X419738		0.89	45.5	7.26	475	180	0.67	6.83	7.32	0.11	16.75	117.5	169	1.23	85.5	5.75
X419739		0.83	98.1	7.14	1160	140	0.85	17.70	8.05	0.17	23.4	243	154	1.30	171.0	6.05
X419740		0.10	0.54	0.08	6.5	<10	0.11	0.15	0.08	<0.02	0.25	1.7	11	0.11	3.1	1.47
X419741		0.88	75.5	6.79	564	140	0.67	5.89	7.04	0.13	14.85	165.5	199	1.04	85.0	6.02
X419742		0.91	32.1	6.83	568	170	0.58	6.86	6.90	0.15	14.45	130.0	162	1.10	81.1	6.19
X419743		0.84	53.5	6.92	806	170	0.56	6.40	7.13	0.15	13.80	156.0	183	1.08	75.5	6.47
X419744		0.86	25.8	6.88	959	170	0.65	6.24	7.15	0.15	14.35	133.0	180	1.09	67.3	5.99
X419745		0.89	33.5	6.86	880	170	0.62	5.38	7.03	0.11	15.55	131.5	163	1.03	61.4	5.72
X419746		0.87	16.55	6.87	481	160	0.57	3.17	7.04	0.12	14.20	94.7	167	1.02	65.6	6.03
X419747		0.84	20.6	7.06	470	160	0.49	3.30	7.32	0.14	13.85	101.0	184	1.04	72.0	6.23
X419748		0.82	24.4	7.02	408	170	0.54	3.44	7.13	0.14	15.15	95.6	186	1.04	73.5	6.13
X419749		0.83	54.3	7.56	478	170	0.80	5.15	6.94	0.11	20.3	139.5	196	1.01	101.0	6.08
X419750		0.84	51.0	7.32	467	160	0.73	3.77	6.85	0.13	19.85	134.5	191	1.03	95.1	5.93



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CERTIFICATE OF ANALYSIS SD18285905

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
Units		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
LOD		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
X419731		11.20	0.19	1.2	0.124	0.30	7.0	8.6	3.80	939	4.61	1.13	4.8	>10000	450	14.4
X419732		12.80	0.05	1.0	0.067	1.18	5.9	31.6	4.38	1300	0.47	1.64	1.5	133.5	170	41.1
X419733		13.70	0.05	1.0	0.077	1.26	7.8	41.6	4.88	1380	1.16	1.62	1.5	163.5	220	84.2
X419734		13.40	0.05	1.0	0.063	1.12	7.5	42.2	4.97	1360	1.86	1.49	1.4	133.0	250	102.0
X419735		13.45	0.05	1.0	0.066	1.29	6.7	37.0	4.38	1310	1.21	1.66	1.6	114.5	180	77.6
X419736		13.00	0.05	1.0	0.064	1.37	6.3	36.0	4.68	1380	1.30	1.63	1.6	116.5	170	69.4
X419737		13.90	0.06	1.0	0.070	1.28	7.5	38.0	4.40	1400	1.54	1.74	1.7	117.5	200	78.3
X419738		13.30	0.07	1.0	0.077	1.40	7.4	39.6	4.39	1360	1.84	1.74	1.5	114.5	170	94.2
X419739		14.30	0.07	1.1	0.099	1.25	10.3	45.2	4.19	1420	3.80	1.83	1.6	137.5	230	111.0
X419740		0.35	<0.05	<0.1	<0.005	0.02	<0.5	11.4	0.04	165	0.51	0.02	0.1	4.5	<10	1.6
X419741		12.40	0.08	1.1	0.081	1.16	6.6	34.8	4.69	1380	0.51	1.56	1.7	131.5	160	75.3
X419742		12.80	0.07	1.1	0.076	1.27	6.3	35.6	4.50	1390	0.61	1.61	1.8	115.0	180	73.2
X419743		12.40	0.06	1.1	0.067	1.31	6.1	35.1	4.83	1480	0.59	1.56	2.0	122.5	170	80.5
X419744		12.50	0.05	1.0	0.071	1.29	6.4	35.3	4.64	1400	1.36	1.56	1.7	115.5	160	78.2
X419745		12.65	0.06	0.9	0.067	1.30	6.9	36.9	4.30	1340	1.78	1.65	1.6	108.5	170	74.5
X419746		13.20	0.05	1.1	0.064	1.26	6.2	35.7	4.42	1380	1.21	1.65	1.9	107.5	180	60.6
X419747		12.80	0.05	1.0	0.062	1.26	6.3	35.1	4.79	1460	1.20	1.59	1.9	117.5	170	62.4
X419748		13.15	<0.05	1.0	0.074	1.28	6.8	36.4	4.63	1440	1.15	1.65	1.8	117.5	180	67.5
X419749		13.80	<0.05	1.1	0.072	1.22	9.2	45.1	4.53	1340	1.40	2.01	2.0	133.5	220	66.9
X419750		13.80	<0.05	1.0	0.070	1.21	8.9	45.2	4.44	1340	1.34	1.91	1.9	130.5	200	66.9



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CERTIFICATE OF ANALYSIS SD18285905

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		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
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
X419731		9.9	0.043	8.18	2.98	8.0	23	2.5	177.5	0.28	4.53	1.10	0.501	0.19	0.4	75
X419732		47.3	<0.002	0.01	10.10	31.5	1	0.5	103.5	0.10	<0.05	0.98	0.258	0.28	0.4	177
X419733		55.8	0.003	0.03	13.95	32.3	1	0.5	107.5	0.11	<0.05	1.12	0.260	0.28	0.6	178
X419734		48.2	0.002	0.03	10.80	30.2	1	0.5	97.8	0.10	<0.05	1.21	0.253	0.23	0.5	176
X419735		51.0	<0.002	0.01	16.55	32.4	1	0.5	105.5	0.11	<0.05	1.02	0.269	0.24	0.5	179
X419736		56.0	<0.002	0.02	12.40	34.6	<1	0.6	106.0	0.12	<0.05	0.98	0.289	0.27	0.5	190
X419737		55.9	<0.002	0.02	13.05	34.0	<1	0.6	108.0	0.11	<0.05	1.14	0.282	0.30	0.5	183
X419738		58.3	<0.002	0.02	14.90	34.1	<1	0.5	106.0	0.11	<0.05	1.08	0.251	0.24	0.5	178
X419739		56.1	0.002	0.05	23.9	32.3	<1	0.5	96.9	0.12	<0.05	1.35	0.262	0.26	0.8	177
X419740		0.9	<0.002	<0.01	0.23	0.3	<1	<0.2	1.4	<0.05	<0.05	0.02	<0.005	<0.02	<0.1	2
X419741		51.3	<0.002	0.01	11.75	34.5	<1	0.5	94.8	0.13	<0.05	1.03	0.296	0.24	0.4	190
X419742		51.5	<0.002	0.01	9.77	34.8	1	0.5	105.0	0.13	<0.05	1.03	0.318	0.25	0.4	196
X419743		54.4	<0.002	0.01	11.10	37.3	<1	0.9	104.0	0.13	<0.05	1.08	0.355	0.27	0.5	210
X419744		57.0	<0.002	0.02	11.60	35.8	<1	0.6	102.0	0.12	<0.05	0.97	0.312	0.25	0.4	193
X419745		47.9	<0.002	0.02	10.10	32.2	<1	0.6	103.5	0.11	<0.05	0.96	0.272	0.28	0.4	175
X419746		47.5	<0.002	0.01	8.17	35.6	1	0.5	109.0	0.13	<0.05	1.01	0.316	0.25	0.4	192
X419747		54.3	<0.002	0.02	8.91	36.6	<1	0.7	106.0	0.12	<0.05	1.02	0.326	0.26	0.4	204
X419748		52.4	<0.002	0.02	9.77	36.1	<1	0.7	106.5	0.13	<0.05	1.02	0.315	0.25	0.4	195
X419749		54.3	0.003	0.03	10.30	41.1	1	0.6	121.5	0.13	<0.05	1.32	0.304	0.25	0.5	186
X419750		54.7	0.002	0.03	10.25	41.8	<1	0.6	117.0	0.13	<0.05	1.24	0.299	0.22	0.5	184

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



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CERTIFICATE OF ANALYSIS SD18285905

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	Ag-OG62 Ag ppm	Cu-OG62 Cu %	Ni-OG62 Ni %	PUL-QC Pass75um %
		0.1	0.1	2	0.5	1	0.001	0.001	0.01
X419731		2.2	9.0	134	47.5		1.630	4.62	
X419732		0.2	12.9	82	33.3				
X419733		0.3	15.5	98	38.4				
X419734		0.3	14.8	119	37.2				
X419735		0.3	14.2	88	36.0				
X419736		0.3	13.8	89	33.8				
X419737		0.3	15.6	93	37.2				
X419738		0.3	16.1	90	34.7				
X419739		0.3	20.8	105	39.3				
X419740		0.1	0.3	2	<0.5				
X419741		0.3	14.4	92	34.2				
X419742		0.3	14.7	94	37.4				
X419743		0.3	14.1	97	35.2				
X419744		0.3	14.5	93	33.1				
X419745		0.4	14.4	86	32.9				
X419746		0.3	14.2	87	38.0				
X419747		0.4	14.2	98	34.7				
X419748		12.6	14.8	99	36.0				
X419749		12.3	16.6	93	45.0				
X419750		6.3	16.8	92	43.4				



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CERTIFICATE OF ANALYSIS SD18285905

	CERTIFICATE COMMENTS								
Applies to Method:	<p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>REE's may not be totally soluble in this method. ME-MS61</p>								
Applies to Method:	<p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">LOG-22</td> <td style="width: 33%;">LOG-23</td> <td style="width: 33%;">PUL-31</td> <td style="width: 15%;"></td> </tr> <tr> <td>SPL-21</td> <td>WEI-21</td> <td></td> <td>PUL-QC</td> </tr> </table>	LOG-22	LOG-23	PUL-31		SPL-21	WEI-21		PUL-QC
LOG-22	LOG-23	PUL-31							
SPL-21	WEI-21		PUL-QC						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Ag-OG62</td> <td style="width: 33%;">Cu-OG62</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 15%;"></td> </tr> <tr> <td>Ni-OG62</td> <td></td> <td></td> <td>ME-OG62</td> </tr> </table>	Ag-OG62	Cu-OG62	ME-MS61		Ni-OG62			ME-OG62
Ag-OG62	Cu-OG62	ME-MS61							
Ni-OG62			ME-OG62						



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CERTIFICATE SD18295355

Project: ODM Infill Samples
 P.O. No.: ODM #1602
 This report is for 60 Tailings samples submitted to our lab in Sudbury, ON, Canada on 21-NOV-2018.
 The following have access to data associated with this certificate:

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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
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
Ag-OG62	Ore Grade Ag - Four Acid
ME-OG62	Ore Grade Elements - Four Acid ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid
Ni-OG62	Ore Grade Ni - Four Acid
ME-MS61	48 element four acid 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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To: BATTERY MINERAL RESOURCES LTD.
 SUITE 400 - 744 WEST HASTINGS STREET
 VANCOUVER BC V6C 1A5

Page: 2 - A
 Total # Pages: 3 (A - D)
 Plus Appendix Pages
 Finalized Date: 4-DEC-2018
 Account: BMRPLLBW

Project: ODM Infill Samples

CERTIFICATE OF ANALYSIS SD18295355

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Units		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
LOD		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
X419751		0.05	4.34	5.72	14.7	120	0.59	0.96	3.67	2.33	18.85	1000	272	0.85	>10000	19.25
X419752		0.83	41.8	7.50	820	170	0.72	8.73	7.31	0.13	21.5	174.0	184	1.28	90.8	6.51
X419753		0.84	26.3	7.70	561	190	0.66	5.08	7.41	0.14	19.15	121.0	160	1.26	70.5	6.74
X419754		0.88	72.5	7.65	528	150	0.67	4.24	7.74	0.11	17.15	164.0	219	1.24	74.4	6.44
X419755		0.85	61.3	7.83	505	150	0.69	5.22	7.68	0.12	17.75	137.5	182	1.26	75.3	6.44
X419756		0.82	39.3	7.76	717	170	0.67	4.12	7.27	0.12	20.6	119.5	165	1.22	63.3	6.61
X419757		0.80	>100	7.52	1135	220	0.75	14.05	7.57	0.23	21.8	296	192	1.38	127.0	7.21
X419758		0.82	48.8	7.66	468	160	0.79	4.28	7.37	0.11	16.60	132.5	183	1.23	75.5	6.37
X419759		0.81	39.3	7.47	427	160	0.85	6.91	7.43	0.12	18.60	120.5	172	1.22	83.1	6.31
X419760		0.05	0.24	0.05	4.6	<10	0.12	0.08	0.04	<0.02	0.21	1.4	5	0.11	1.4	0.46
X419761		0.86	33.4	7.79	544	190	0.75	6.56	7.27	0.13	18.40	108.5	162	1.21	79.8	6.20
X419762		0.80	35.0	7.85	613	180	0.72	6.94	8.11	0.12	23.1	142.0	150	1.30	68.8	6.59
X419763		0.74	43.1	7.68	888	150	0.79	9.11	8.34	0.12	23.8	223	144	1.48	93.8	7.26
X419764		0.89	66.9	7.41	502	190	0.75	4.44	7.05	0.26	19.05	164.5	198	1.17	92.6	6.70
X419765		0.85	38.1	7.49	421	160	0.71	2.17	7.58	0.13	16.35	158.5	227	1.15	67.9	6.45
X419766		0.89	46.9	7.42	368	160	0.57	4.33	7.78	0.14	12.90	124.5	250	0.98	70.0	6.30
X419767		0.88	45.8	7.66	421	180	0.54	3.22	8.04	0.15	15.65	138.5	240	1.02	78.0	6.46
X419768		0.83	47.9	7.45	807	170	0.72	2.82	7.51	0.25	18.65	182.0	189	1.20	82.4	6.62
X419769		0.89	38.6	7.38	741	180	0.81	5.45	7.35	0.39	22.3	163.0	182	1.27	83.9	6.95
X419770		1.51	41.4	7.71	706	180	0.83	5.86	7.62	0.32	20.3	159.5	185	1.29	89.0	7.05
X419771		0.05	4.09	5.77	15.5	120	0.62	1.01	3.73	2.24	18.95	1005	267	0.81	>10000	19.40
X419772		0.80	32.7	7.48	679	170	0.67	8.78	7.68	0.14	17.15	139.5	183	1.12	82.4	6.59
X419773		0.90	58.8	7.72	613	180	0.87	9.66	7.89	0.14	20.9	154.0	172	1.35	114.0	6.34
X419774		0.73	64.4	7.51	1065	160	0.73	5.67	7.75	0.13	23.4	273	146	1.40	90.0	7.16
X419775		0.59	53.6	7.69	775	160	0.82	8.16	7.55	0.21	20.9	199.5	193	1.89	99.2	7.69
X419776		0.92	53.8	7.94	738	160	0.80	3.97	7.58	0.12	19.70	191.0	155	1.20	72.8	6.68
X419777		0.89	48.2	7.62	740	170	0.72	4.44	7.41	0.13	21.3	177.0	160	1.16	70.9	6.50
X419778		0.97	32.1	7.67	807	170	0.82	3.97	7.90	0.13	22.5	166.0	186	1.29	58.6	6.69
X419779		0.59	38.5	7.80	806	150	0.82	6.97	7.69	0.11	20.1	183.5	161	1.90	67.6	7.61
X419780		0.06	0.22	0.04	4.5	<10	0.13	0.05	0.03	<0.02	0.18	1.3	6	0.09	5.7	0.71
X419781		0.63	45.8	7.54	875	190	0.60	6.92	7.58	0.14	18.10	204	154	1.55	90.4	7.16
X419782		0.72	77.1	7.58	880	150	0.79	4.84	7.62	0.14	19.90	297	135	1.37	108.5	7.08
X419783		0.73	38.6	7.85	782	160	0.74	6.72	8.16	0.13	20.8	196.5	188	1.73	67.0	7.39
X419784		0.80	39.2	7.61	842	150	0.82	5.33	8.10	0.11	23.7	215	180	1.57	63.3	7.19
X419785		0.50	44.7	7.48	615	160	0.76	10.60	6.26	0.11	11.80	164.0	177	2.30	76.3	7.84
X419786		0.74	38.2	7.47	756	150	0.71	4.44	7.87	0.10	20.4	187.5	176	1.21	53.5	6.69
X419787		0.73	42.2	7.76	781	140	0.79	7.68	8.12	0.10	18.85	197.0	201	1.83	72.7	7.53
X419788		1.05	45.6	7.29	406	130	0.70	2.40	8.63	0.20	17.85	178.0	250	1.20	110.5	6.44
X419789		0.91	34.0	7.69	800	140	0.79	4.36	8.46	0.14	22.2	201	188	1.37	69.1	6.85
X419790		0.74	63.1	7.73	674	140	0.78	6.43	8.19	0.18	21.7	231	190	1.46	105.0	6.95

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



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Page: 2 - B
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 Plus Appendix Pages
 Finalized Date: 4-DEC-2018
 Account: BMRPLLBW

Project: ODM Infill Samples

CERTIFICATE OF ANALYSIS	SD18295355
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Sample Description	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	ppm 0.05	ppm 0.05	ppm 0.1	ppm 0.005	% 0.01	ppm 0.5	ppm 0.2	% 0.01	ppm 5	ppm 0.05	% 0.01	ppm 0.1	ppm 0.2	ppm 10	ppm 0.5
X419751	11.25	0.20	1.3	0.136	0.33	7.7	9.8	4.25	1040	5.18	1.26	5.0	>10000	490	15.3
X419752	12.50	0.09	1.0	0.079	1.28	8.7	43.6	4.96	1450	0.78	1.87	1.7	148.5	190	112.5
X419753	13.35	0.07	1.1	0.078	1.38	7.7	42.8	4.74	1470	0.67	1.94	1.8	119.0	220	77.6
X419754	12.30	0.09	0.9	0.071	1.25	7.1	43.3	5.29	1450	0.53	1.78	1.4	158.5	170	81.1
X419755	12.75	0.08	0.9	0.075	1.29	7.5	43.1	5.08	1420	0.51	1.89	1.4	139.0	170	90.0
X419756	13.15	0.08	1.2	0.079	1.30	8.5	41.9	4.62	1400	1.40	1.98	1.9	112.0	250	76.2
X419757	13.35	0.09	1.2	0.083	1.23	8.8	47.3	4.95	1440	2.71	1.79	1.6	181.0	270	181.0
X419758	13.35	0.09	1.0	0.079	1.26	7.2	42.7	4.92	1400	0.79	1.81	1.5	135.0	200	80.9
X419759	13.55	0.08	1.0	0.079	1.40	8.1	46.1	4.62	1420	0.60	1.83	1.6	119.0	180	95.1
X419760	0.25	<0.05	<0.1	<0.005	0.01	<0.5	12.1	0.02	52	0.18	0.01	<0.1	3.4	10	1.0
X419761	14.20	0.08	1.1	0.070	1.48	7.9	45.5	4.50	1380	1.04	1.91	1.5	118.5	200	111.5
X419762	14.85	0.09	1.3	0.088	1.40	10.7	47.7	4.56	1470	1.45	1.95	1.6	121.5	240	95.1
X419763	15.50	0.08	1.4	0.092	1.32	10.6	52.1	4.72	1510	1.97	1.73	1.7	144.5	290	81.3
X419764	13.80	0.08	1.2	0.073	1.21	8.7	44.3	4.95	1560	0.56	1.93	2.1	140.0	230	118.5
X419765	13.15	0.07	1.1	0.075	1.34	6.9	39.7	5.14	1460	0.50	1.67	1.6	145.5	200	77.8
X419766	12.85	0.06	0.9	0.063	1.32	5.5	39.1	5.45	1440	0.49	1.62	1.5	148.0	150	82.2
X419767	13.40	0.07	1.0	0.071	1.29	6.5	38.9	5.43	1480	0.44	1.65	1.7	145.0	160	75.7
X419768	13.55	0.07	1.1	0.081	1.27	8.3	42.9	4.88	1470	0.77	1.75	1.9	138.5	240	120.5
X419769	13.80	0.07	1.2	0.084	1.24	10.2	44.6	5.07	1580	0.89	1.87	2.1	138.0	240	138.5
X419770	14.25	0.05	1.2	0.085	1.30	9.4	43.5	5.28	1590	0.94	1.90	2.0	144.5	240	125.5
X419771	12.30	0.49	1.4	0.142	0.33	8.2	9.5	4.29	1040	4.75	1.27	5.3	>10000	500	14.3
X419772	13.40	0.05	1.1	0.072	1.37	7.6	40.0	5.07	1500	1.03	1.75	1.8	151.0	170	79.8
X419773	13.85	0.07	1.1	0.089	1.43	9.2	46.9	4.77	1450	2.14	1.86	1.4	136.0	180	109.5
X419774	14.85	0.06	1.3	0.090	1.17	10.8	48.7	4.86	1520	2.23	1.78	1.6	167.5	300	86.4
X419775	15.85	0.05	0.9	0.089	1.17	9.5	67.5	5.87	1610	3.37	1.51	1.4	191.5	310	141.5
X419776	15.00	0.06	1.3	0.079	1.35	9.1	43.3	4.58	1440	1.14	2.00	1.8	138.0	240	73.6
X419777	14.40	0.07	1.2	0.078	1.30	9.9	42.7	4.57	1440	1.43	1.92	1.8	133.0	250	80.0
X419778	14.35	0.06	1.2	0.078	1.22	10.6	49.7	5.06	1510	2.02	1.85	1.7	143.0	250	82.3
X419779	16.50	0.08	0.8	0.086	1.26	9.1	61.6	5.55	1440	3.07	1.54	1.2	150.5	270	84.7
X419780	0.25	<0.05	<0.1	<0.005	0.01	<0.5	12.0	0.02	80	0.24	0.01	<0.1	14.2	<10	0.7
X419781	15.30	0.05	0.9	0.084	1.30	7.9	56.9	5.38	1460	1.77	1.53	1.2	166.5	270	104.0
X419782	15.20	0.06	1.2	0.086	1.22	9.7	47.6	4.76	1480	1.69	1.76	1.6	175.0	280	106.5
X419783	15.15	0.05	1.0	0.085	1.18	9.5	61.9	5.79	1570	2.80	1.62	1.2	181.5	280	103.0
X419784	14.80	0.07	1.1	0.093	1.16	10.8	58.2	5.35	1570	2.55	1.67	1.5	164.5	300	92.5
X419785	16.15	0.05	0.6	0.076	1.27	5.2	68.6	5.98	1420	4.99	1.29	0.9	182.0	220	106.5
X419786	14.00	0.05	1.2	0.080	1.13	9.1	47.6	4.95	1480	1.68	1.76	1.6	146.0	270	78.7
X419787	15.50	0.05	0.8	0.086	1.20	8.5	65.8	5.91	1520	3.64	1.51	1.1	182.0	230	92.4
X419788	12.70	<0.05	0.8	0.082	1.09	8.1	47.8	5.84	1560	0.62	1.55	1.4	184.5	150	113.5
X419789	14.45	0.07	1.1	0.092	1.12	10.2	50.5	5.35	1520	2.15	1.74	1.5	160.5	240	92.6
X419790	14.60	0.05	1.1	0.088	1.15	9.9	51.1	5.32	1500	1.97	1.74	1.5	180.0	260	142.0



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Project: ODM Infill Samples

CERTIFICATE OF ANALYSIS SD18295355

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
LOD		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
X419751		11.2	0.053	8.85	2.93	8.6	24	2.5	195.0	0.31	4.63	1.08	0.552	0.18	0.4	82
X419752		56.2	<0.002	0.02	10.15	35.8	<1	0.5	110.0	0.12	<0.05	1.15	0.307	0.25	0.5	193
X419753		60.9	<0.002	0.01	8.19	36.7	1	0.5	119.5	0.14	<0.05	1.27	0.325	0.25	0.6	201
X419754		52.8	<0.002	0.01	11.35	34.4	1	0.5	104.5	0.11	<0.05	1.11	0.271	0.22	0.5	186
X419755		53.9	<0.002	0.01	11.15	36.0	1	0.5	111.0	0.10	<0.05	1.12	0.269	0.24	0.5	184
X419756		56.5	<0.002	0.02	11.20	32.4	1	0.5	113.5	0.14	<0.05	1.29	0.318	0.22	0.6	192
X419757		54.0	<0.002	0.05	25.9	32.5	<1	4.8	106.0	0.13	<0.05	1.38	0.289	0.21	0.7	190
X419758		55.3	<0.002	0.01	10.35	33.5	1	0.5	103.0	0.11	<0.05	1.15	0.262	0.22	0.5	182
X419759		64.2	<0.002	0.01	11.65	35.8	1	0.5	103.5	0.12	<0.05	1.14	0.282	0.25	0.5	186
X419760		0.7	<0.002	<0.01	0.09	0.1	1	<0.2	1.0	<0.05	<0.05	0.02	<0.005	<0.02	<0.1	1
X419761		66.4	0.002	0.02	17.75	35.8	1	0.6	113.5	0.11	<0.05	1.17	0.263	0.24	0.6	179
X419762		65.3	<0.002	0.02	17.75	35.5	1	0.7	112.0	0.12	<0.05	1.45	0.281	0.24	0.8	188
X419763		62.9	0.002	0.03	15.05	35.4	1	0.8	103.5	0.14	<0.05	1.66	0.288	0.24	0.8	196
X419764		53.7	<0.002	0.02	10.75	36.7	1	0.6	107.5	0.15	<0.05	1.22	0.339	0.22	0.5	196
X419765		62.5	<0.002	0.01	8.76	38.8	1	0.5	104.5	0.12	<0.05	1.18	0.304	0.24	0.5	196
X419766		51.2	0.002	0.01	8.26	36.1	1	0.4	107.5	0.11	<0.05	0.92	0.278	0.25	0.4	192
X419767		57.8	<0.002	0.01	9.39	39.9	1	0.5	112.0	0.11	<0.05	1.02	0.306	0.23	0.4	201
X419768		53.7	<0.002	0.02	11.35	35.2	1	0.5	104.0	0.13	<0.05	1.17	0.311	0.22	0.5	193
X419769		53.8	<0.002	0.02	13.80	37.1	1	0.6	105.5	0.15	<0.05	1.18	0.345	0.22	0.6	198
X419770		58.0	0.002	0.02	14.00	38.6	1	0.6	110.0	0.14	<0.05	1.18	0.344	0.22	0.6	204
X419771		11.8	0.052	8.91	3.25	9.0	24	2.5	196.0	0.31	4.99	1.05	0.558	0.18	0.4	82
X419772		62.3	0.002	0.02	12.50	39.9	1	0.6	109.5	0.13	<0.05	1.09	0.328	0.24	0.5	202
X419773		65.1	0.002	0.03	19.00	37.0	1	0.9	110.0	0.10	<0.05	1.15	0.258	0.27	0.6	184
X419774		56.4	0.002	0.03	16.65	34.1	1	0.6	104.0	0.12	<0.05	1.63	0.287	0.22	0.7	195
X419775		52.5	0.002	0.04	13.95	30.3	<1	0.6	94.6	0.09	<0.05	1.29	0.232	0.24	0.7	180
X419776		63.4	<0.002	0.02	13.60	36.8	1	0.6	115.0	0.14	<0.05	1.44	0.312	0.26	0.7	201
X419777		57.0	<0.002	0.02	11.95	34.6	1	0.5	112.0	0.13	<0.05	1.28	0.301	0.24	0.6	190
X419778		51.5	0.003	0.02	10.80	33.6	1	0.5	109.0	0.12	<0.05	1.25	0.286	0.21	0.6	186
X419779		52.9	0.003	0.03	14.75	29.5	1	0.5	100.0	0.09	<0.05	1.28	0.209	0.27	0.7	180
X419780		0.5	<0.002	<0.01	0.08	0.1	1	<0.2	1.0	<0.05	<0.05	0.01	<0.005	<0.02	<0.1	1
X419781		43.6	0.002	0.02	15.55	29.7	1	0.6	104.0	0.10	<0.05	1.18	0.220	0.26	0.5	176
X419782		57.7	<0.002	0.04	21.4	34.2	1	0.5	98.9	0.12	0.07	1.54	0.275	0.24	0.9	191
X419783		54.9	<0.002	0.03	13.60	30.8	1	0.5	100.5	0.10	<0.05	1.33	0.227	0.22	0.6	179
X419784		52.8	0.003	0.02	14.50	33.4	1	0.5	99.8	0.11	<0.05	1.37	0.264	0.23	0.7	186
X419785		35.4	0.003	0.04	14.55	23.2	1	0.5	89.1	0.07	<0.05	0.74	0.173	0.27	0.6	171
X419786		49.2	0.002	0.02	13.50	33.6	1	0.5	101.0	0.12	<0.05	1.27	0.275	0.21	0.6	185
X419787		40.9	0.003	0.03	16.00	28.4	<1	0.6	93.0	0.09	<0.05	1.12	0.205	0.23	0.6	179
X419788		49.6	<0.002	0.03	8.52	36.6	1	0.5	96.4	0.10	<0.05	0.97	0.262	0.20	0.5	181
X419789		53.6	0.002	0.02	15.70	35.3	1	0.6	103.5	0.11	<0.05	1.25	0.264	0.19	0.6	185
X419790		55.2	0.002	0.02	22.1	34.9	1	0.7	103.5	0.11	<0.05	1.30	0.263	0.22	0.6	185



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Project: ODM Infill Samples

CERTIFICATE OF ANALYSIS SD18295355

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Cu-OG62	Ni-OG62	PUL-QC
		W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Ag ppm 1	Cu % 0.001	Ni % 0.001	Pass75um % 0.01
X419751		2.3	9.9	148	50.8		1.615	4.55	
X419752		0.3	17.9	102	38.6				87.8
X419753		0.4	17.5	99	43.0				91.8
X419754		0.2	14.7	97	33.6				
X419755		0.3	15.1	97	34.8				
X419756		0.3	17.3	96	46.1				
X419757		0.3	18.3	218	44.4	99			
X419758		0.3	15.2	99	35.5				
X419759		0.3	17.5	98	37.3				
X419760		<0.1	0.2	2	<0.5				
X419761		0.3	16.4	99	40.1				
X419762		0.3	18.9	95	48.0				
X419763		0.3	19.8	102	49.8				
X419764		0.4	16.3	151	43.7				
X419765		0.3	15.8	97	38.3				
X419766		0.2	13.7	103	31.6				
X419767		0.3	15.5	102	35.7				
X419768		0.3	16.4	148	40.4				
X419769		0.4	17.7	197	43.5				
X419770		0.4	17.4	170	48.1				
X419771		2.3	10.8	148	58.7		1.660	4.64	
X419772		0.3	16.7	98	39.5				
X419773		0.2	18.5	102	40.3				
X419774		0.4	19.2	118	48.4				
X419775		0.4	17.1	156	33.6				
X419776		0.3	17.7	102	47.3				
X419777		0.4	17.1	105	46.1				
X419778		0.4	18.2	109	44.7				
X419779		0.3	16.9	118	31.5				
X419780		<0.1	0.2	2	<0.5				
X419781		0.4	15.2	130	31.5				98.9
X419782		0.5	17.8	119	46.8				98.2
X419783		0.4	16.9	128	34.7				
X419784		0.4	18.3	115	42.8				
X419785		0.3	11.3	131	20.7				
X419786		0.4	16.9	101	42.9				
X419787		0.4	15.6	118	30.9				
X419788		0.4	16.3	124	31.1				
X419789		0.3	17.4	111	41.1				
X419790		0.3	17.5	127	41.1				99.2



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Project: ODM Infill Samples

CERTIFICATE OF ANALYSIS SD18295355

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
X419791		0.05	3.91	5.44	14.3	110	0.57	0.87	3.52	2.07	17.45	954	260	0.80	>10000	18.25
X419792		0.86	54.6	7.94	407	160	0.70	3.16	7.34	0.13	16.85	177.5	158	1.09	79.9	6.40
X419793		0.93	45.0	8.01	379	180	0.67	3.68	7.56	0.14	16.55	138.0	187	1.11	73.0	6.33
X419794		0.68	23.8	7.34	689	190	0.56	2.77	7.38	0.13	18.80	141.5	195	1.06	54.1	6.59
X419795		0.84	24.6	7.56	592	130	0.75	2.50	7.76	0.10	16.55	131.5	212	1.20	54.9	6.18
X419796		0.76	31.2	7.58	890	130	0.74	4.24	8.18	0.09	19.00	181.5	192	1.16	44.7	6.50
X419797		0.81	57.1	7.90	461	160	0.63	2.44	7.19	0.11	16.35	175.5	157	1.17	76.0	6.58
X419798		0.91	58.0	7.87	649	180	0.66	4.30	7.28	0.12	16.55	179.0	157	1.07	81.5	6.56
X419799		0.91	40.0	7.85	647	200	0.71	5.37	7.33	0.15	19.35	142.5	174	1.10	65.8	6.67
X419800		0.08	0.55	0.07	5.8	<10	0.10	0.05	0.05	<0.02	0.37	1.9	11	0.11	2.9	1.03
X419801		0.78	29.0	7.70	665	190	0.82	2.82	7.77	0.16	23.4	144.5	199	1.25	51.5	6.97
X419802		0.88	28.7	7.53	778	160	0.67	3.64	7.77	0.11	20.2	165.5	193	1.16	47.6	6.65
X419803		0.71	34.3	7.63	744	160	0.85	4.80	7.72	0.13	20.9	157.5	181	1.38	54.1	6.79
X419804		0.95	42.9	7.75	710	170	0.64	3.63	7.33	0.12	19.15	150.0	163	1.08	60.9	6.50
X419805		0.91	31.2	7.43	833	200	0.80	3.29	7.47	0.17	25.3	152.5	179	1.12	50.5	6.92
X419806		0.91	45.9	7.74	773	170	0.68	2.88	7.38	0.11	19.40	166.5	159	1.12	62.2	6.64
X419807		0.84	36.3	7.51	991	200	0.81	3.68	7.60	0.16	26.0	162.0	177	1.16	56.2	7.09
X419808		0.99	54.9	7.74	614	180	0.79	4.89	7.38	0.14	22.0	192.0	146	1.17	62.5	6.94
X419809		0.81	33.8	7.71	731	170	0.69	4.13	7.65	0.14	21.3	168.0	170	1.30	54.0	6.72
X419810		0.75	34.7	7.78	716	170	0.68	4.26	7.83	0.15	22.4	166.5	179	1.31	54.9	6.77



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CERTIFICATE OF ANALYSIS SD18295355

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	
Units		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	
LOD		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	
X419791		11.30	0.38	1.2	0.128	0.31	7.6	8.9	4.06	985	4.50	1.20	4.8	>10000	460	13.8
X419792		14.55	0.06	1.1	0.075	1.37	7.3	37.3	4.59	1410	0.46	1.93	1.7	154.5	240	94.3
X419793		14.20	0.05	1.1	0.067	1.40	7.0	37.7	5.02	1460	0.46	1.88	1.6	143.0	190	82.7
X419794		12.30	0.08	1.1	0.067	1.21	7.7	41.0	4.88	1520	1.08	1.85	1.7	127.5	220	82.5
X419795		12.00	0.07	0.9	0.065	1.17	7.1	43.0	5.22	1400	1.67	1.78	1.3	149.0	180	84.1
X419796		12.35	0.06	1.0	0.071	1.15	8.1	40.8	5.06	1430	1.69	1.77	1.4	139.5	230	66.5
X419797		13.80	0.09	1.2	0.069	1.40	7.0	40.3	4.61	1440	0.73	2.00	1.8	132.5	210	84.2
X419798		13.40	0.09	1.1	0.068	1.43	6.9	40.0	4.69	1420	1.07	1.94	1.5	139.0	200	95.5
X419799		13.10	0.09	1.1	0.069	1.32	8.0	43.2	4.87	1520	1.23	1.95	1.7	131.5	210	92.9
X419800		0.26	<0.05	<0.1	<0.005	0.01	<0.5	11.0	0.03	111	0.35	0.01	0.2	6.2	10	1.3
X419801		13.30	0.09	1.2	0.077	1.20	9.7	47.8	5.04	1640	1.49	1.98	1.7	138.0	280	102.5
X419802		12.65	0.08	1.1	0.073	1.18	8.5	43.2	4.93	1500	1.58	1.84	1.5	138.5	240	81.6
X419803		13.60	0.09	1.1	0.078	1.19	8.7	49.2	5.07	1500	2.02	1.75	1.5	138.0	260	85.9
X419804		13.15	0.07	1.2	0.067	1.34	8.1	40.7	4.61	1440	0.97	1.93	1.7	122.0	220	82.0
X419805		13.30	0.08	1.3	0.079	1.16	10.6	45.5	4.75	1660	1.66	2.04	2.0	126.0	320	93.2
X419806		13.45	0.08	1.3	0.073	1.33	8.0	41.0	4.65	1470	1.08	1.94	1.8	128.5	230	82.9
X419807		13.15	0.09	1.3	0.079	1.17	10.9	46.1	4.81	1690	2.20	2.03	2.0	126.0	320	95.8
X419808		13.90	0.08	1.3	0.081	1.31	9.3	41.4	4.52	1520	0.84	2.07	1.9	130.5	240	87.0
X419809		13.30	0.07	1.1	0.076	1.24	8.9	46.2	4.88	1460	1.93	1.86	1.6	135.0	250	84.2
X419810		13.55	0.08	1.2	0.073	1.25	9.3	47.1	4.96	1480	1.94	1.87	1.6	134.5	250	85.4



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CERTIFICATE OF ANALYSIS SD18295355

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		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
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
X419791		11.1	0.048	8.45	3.28	8.4	22	2.4	184.5	0.30	4.49	1.03	0.524	0.18	0.3	77
X419792		64.5	<0.002	0.02	12.25	36.9	1	0.5	111.5	0.11	<0.05	1.23	0.292	0.27	0.6	190
X419793		64.2	<0.002	0.01	12.15	38.7	1	0.5	117.0	0.12	<0.05	1.08	0.287	0.26	0.5	187
X419794		45.1	0.002	0.01	10.60	32.0	<1	0.5	108.5	0.12	<0.05	1.17	0.314	0.20	0.5	187
X419795		44.6	0.002	0.02	10.50	32.5	1	0.4	102.5	0.10	<0.05	1.01	0.248	0.20	0.4	172
X419796		47.0	0.002	0.01	11.95	30.6	<1	0.4	101.0	0.09	<0.05	1.43	0.265	0.19	0.6	181
X419797		60.9	<0.002	0.01	14.35	36.6	1	0.5	111.5	0.13	<0.05	1.25	0.320	0.25	0.6	201
X419798		51.8	<0.002	0.02	16.00	34.5	1	0.5	115.0	0.11	<0.05	1.15	0.287	0.25	0.6	190
X419799		52.9	0.002	0.02	12.30	33.1	<1	0.5	115.0	0.12	<0.05	1.15	0.308	0.23	0.6	188
X419800		0.8	<0.002	0.01	0.17	0.2	<1	<0.2	1.3	<0.05	<0.05	0.13	<0.005	<0.02	<0.1	2
X419801		47.9	0.002	0.02	10.25	30.8	<1	0.5	111.5	0.13	<0.05	1.17	0.316	0.21	0.6	188
X419802		47.1	0.002	0.02	11.15	32.1	<1	0.5	105.5	0.11	<0.05	1.20	0.283	0.20	0.6	182
X419803		51.7	0.002	0.02	11.30	30.1	<1	0.5	103.5	0.11	<0.05	1.28	0.270	0.22	0.6	182
X419804		57.1	<0.002	0.02	12.00	33.9	1	0.5	112.5	0.12	<0.05	1.28	0.306	0.24	0.6	193
X419805		46.5	0.002	0.02	9.17	31.0	1	0.6	109.0	0.13	<0.05	1.26	0.345	0.19	0.7	190
X419806		55.1	<0.002	0.01	13.35	35.9	<1	0.5	112.5	0.12	<0.05	1.28	0.327	0.26	0.6	200
X419807		47.6	0.002	0.03	9.86	31.3	1	0.6	108.5	0.14	<0.05	1.33	0.348	0.19	0.7	195
X419808		55.1	0.002	0.01	10.50	35.9	1	0.5	113.5	0.13	<0.05	1.40	0.348	0.24	0.6	208
X419809		52.8	0.002	0.02	11.00	32.2	<1	0.5	108.0	0.11	<0.05	1.28	0.289	0.22	0.6	187
X419810		53.0	0.002	0.02	10.90	32.4	1	0.5	108.5	0.12	<0.05	1.32	0.293	0.22	0.6	191



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CERTIFICATE OF ANALYSIS SD18295355

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Cu-OG62	Ni-OG62	PUL-QC
		W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Cu %	Ni %	Pass75um %
		0.1	0.1	2	0.5	1	0.001	0.001	0.01
X419791		2.4	9.8	140	49.4		1.645	4.63	
X419792		0.3	16.2	98	40.8				
X419793		0.3	15.8	102	38.5				
X419794		0.3	15.5	109	38.5				
X419795		0.2	13.4	91	31.5				
X419796		0.3	14.9	89	36.6				
X419797		0.3	15.6	101	40.6				
X419798		0.3	15.1	104	37.0				
X419799		0.3	15.4	117	40.3				
X419800		<0.1	0.3	2	<0.5				
X419801		0.4	16.2	122	40.3				
X419802		0.3	15.4	101	38.5				
X419803		0.4	16.2	111	38.8				
X419804		0.3	16.0	105	43.7				
X419805		0.5	16.9	129	47.0				
X419806		0.4	16.4	104	43.3				
X419807		0.5	17.5	130	46.5				
X419808		0.3	17.4	113	45.9				
X419809		0.4	16.8	110	39.7				
X419810		0.3	16.9	113	42.4				



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Project: ODM Infill Samples
 P.O. No.: ODM #1605
 This report is for 39 Tailings samples submitted to our lab in Sudbury, ON, Canada on 26-NOV-2018.
 The following have access to data associated with this certificate:

SEUN AJBODE GEORDIE HAMILTON DAVID HOZJAN (ODM) FRANK PLOEGER ISAAC RIDDLE	PETER DOYLE MIKE HENDRICKSON MALLORY METCALF IAN PRINGLE CLYDE SMITH	JON EDWARDS SEAN HICKS SARAH MILLS MERCEDES RICH
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
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
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	
Ni-OG62	Ore Grade Ni - Four Acid	
ME-MS61	48 element four acid 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: 
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To: BATTERY MINERAL RESOURCES LTD.
 SUITE 400 - 744 WEST HASTINGS STREET
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 Account: BMRPLLBW

Project: ODM Infill Samples

CERTIFICATE OF ANALYSIS SD18299892

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Units		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
LOD		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
X419811		0.06	4.03	5.45	12.5	120	0.50	0.88	3.52	2.08	16.20	972	254	0.76	>10000	17.80
X419812		0.79	58.1	7.73	441	160	0.53	3.26	7.12	0.13	17.85	182.5	129	1.10	70.2	6.46
X419813		0.73	61.1	7.33	954	160	0.62	6.84	7.21	0.12	20.1	250	136	1.27	84.3	6.54
X419814		0.74	33.7	7.51	850	170	0.58	5.25	7.58	0.16	23.2	169.5	169	1.33	66.1	6.45
X419815		0.83	25.3	7.49	803	180	0.76	2.86	7.79	0.16	25.0	172.5	178	1.22	44.1	6.25
X419816		0.74	29.1	7.66	748	140	0.70	4.40	8.10	0.10	20.5	172.0	201	1.45	49.4	6.49
X419817		0.50	32.5	7.37	796	140	0.59	7.04	7.46	0.08	17.10	179.5	184	1.65	57.7	6.88
X419818		0.77	48.5	7.30	476	150	0.60	3.11	7.21	0.12	15.70	164.0	182	1.11	76.2	6.40
X419819		0.85	46.3	7.41	583	180	0.66	4.15	7.06	0.17	16.85	151.0	189	1.13	74.5	6.25
X419820		0.06	0.35	0.09	3.8	<10	0.14	0.06	0.06	<0.02	0.37	1.6	9	0.12	3.0	0.39
X419821		0.88	27.9	7.39	922	190	0.60	3.60	7.21	0.20	24.9	156.5	177	1.28	73.6	6.26
X419822		0.98	23.0	7.52	810	140	0.62	2.47	7.35	0.10	16.70	171.5	187	1.22	56.1	5.71
X419823		0.95	23.8	7.65	662	140	0.62	3.16	7.54	0.08	16.35	136.0	192	1.18	48.6	5.68
X419824		0.76	25.1	7.46	778	260	0.54	4.50	7.61	0.09	18.45	152.0	170	1.27	47.8	6.00
X419825		0.88	78.1	7.27	905	150	0.65	9.63	7.36	0.22	18.95	271	177	1.31	125.5	6.22
X419826		0.87	48.4	7.40	519	170	0.46	5.44	7.13	0.14	16.45	172.5	171	1.11	76.4	6.19
X419827		0.98	57.0	7.27	602	160	0.76	7.25	7.28	0.14	16.25	188.0	175	1.18	87.7	6.17
X419828		0.83	38.6	7.34	623	210	0.86	4.31	7.33	0.26	23.4	126.0	201	1.26	66.3	6.73
X419829		0.98	30.5	7.79	574	140	0.85	3.83	7.64	0.11	16.35	127.0	212	1.28	63.3	5.74
X419830		0.87	33.3	7.73	568	140	0.84	3.59	7.56	0.13	15.25	125.0	222	1.20	61.9	5.71
X419831		0.06	4.06	5.45	14.4	110	0.53	0.91	3.48	1.98	16.50	961	255	0.78	>10000	17.75
X419832		0.79	32.2	7.81	867	140	0.78	4.70	8.00	0.10	18.20	176.5	187	1.20	56.2	6.09
X419833		0.79	30.8	7.85	782	150	0.81	3.83	8.09	0.07	19.45	155.0	166	1.26	46.6	6.25
X419835		0.96	61.3	7.69	552	160	0.84	3.63	7.42	0.10	17.15	186.0	147	1.24	75.3	6.34
X419836		0.94	40.5	7.37	546	210	0.66	4.43	7.25	0.19	18.90	158.0	181	1.18	70.5	6.68
X419837		0.90	29.1	7.71	641	190	0.73	3.92	7.60	0.15	20.2	156.5	191	1.28	69.7	6.66
X419838		0.87	27.9	7.85	616	140	0.72	3.59	7.71	0.11	17.55	135.0	197	1.34	71.5	6.09
X419839		0.90	33.0	7.72	635	140	0.78	3.90	7.58	0.10	16.30	135.5	204	1.20	60.7	5.70
X419840		0.09	0.41	0.10	6.1	<10	0.18	0.07	0.06	<0.02	0.87	1.8	17	0.15	7.8	0.23
X419841		0.86	28.9	8.17	683	150	0.76	4.16	7.90	0.13	16.90	131.5	189	1.20	65.0	5.99
X419842		0.81	40.0	8.01	787	150	0.74	4.26	7.95	0.11	19.05	166.0	177	1.29	70.0	6.32
X419843		0.86	45.4	7.55	400	190	0.69	6.90	7.19	0.21	16.45	126.5	194	1.09	96.3	6.02
X419844		0.85	36.0	7.52	538	190	0.80	4.77	7.29	0.15	18.30	147.0	184	1.16	74.7	6.35
X419845		0.81	24.3	7.78	584	150	0.63	2.56	7.51	0.14	17.75	136.5	197	1.23	72.0	6.20
X419846		0.78	27.1	8.03	534	140	0.80	2.20	7.56	0.12	16.10	110.5	234	1.37	67.7	5.88
X419847		0.82	32.0	7.74	526	130	0.79	2.99	7.29	0.10	15.50	120.5	202	1.19	68.0	5.66
X419848		0.73	32.5	7.79	687	140	0.90	5.32	7.74	0.13	16.60	131.5	190	1.21	60.2	5.72
X419849		0.85	34.4	8.06	637	160	0.73	3.41	7.62	0.09	16.75	122.0	162	1.19	61.0	5.93
X419850		0.89	38.1	8.11	647	160	0.74	3.57	7.62	0.08	17.00	121.5	164	1.20	58.4	5.98



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 Account: BMRPLLBW

Project: ODM Infill Samples

CERTIFICATE OF ANALYSIS SD18299892

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
X419811		10.85	0.14	1.2	0.114	0.31	7.2	7.5	4.02	1010	4.15	1.18	4.8	>10000	480	14.1
X419812		14.70	<0.05	1.4	0.072	1.26	8.2	32.6	4.19	1430	1.80	2.02	1.8	142.0	250	79.9
X419813		13.65	<0.05	1.2	0.081	1.18	8.8	35.5	4.47	1420	2.78	1.73	1.5	158.5	270	79.2
X419814		14.45	0.05	1.1	0.082	1.18	10.1	40.4	4.84	1470	2.12	1.72	1.6	137.5	280	91.0
X419815		13.50	0.05	1.3	0.071	1.08	10.9	36.8	4.82	1490	2.12	1.80	1.7	135.0	350	101.0
X419816		13.60	<0.05	1.0	0.071	1.09	8.9	44.7	5.40	1480	2.30	1.60	1.3	163.5	240	91.2
X419817		14.35	<0.05	0.8	0.073	1.12	7.9	46.5	5.36	1420	3.15	1.42	1.1	156.0	250	85.1
X419818		12.95	<0.05	1.1	0.068	1.22	7.0	32.5	4.87	1500	0.80	1.69	1.8	135.5	200	75.6
X419819		12.95	<0.05	1.0	0.065	1.23	7.4	33.7	4.78	1500	0.55	1.76	1.8	133.0	210	75.2
X419820		0.27	<0.05	<0.1	<0.005	0.02	<0.5	9.3	0.03	49	0.17	0.03	0.1	6.1	<10	0.9
X419821		13.60	0.05	1.1	0.080	1.19	10.7	38.3	4.64	1510	1.65	1.90	2.0	138.0	260	90.3
X419822		13.10	<0.05	0.9	0.064	1.16	7.5	36.3	4.73	1360	1.73	1.75	1.4	137.5	180	83.8
X419823		12.75	<0.05	0.9	0.069	1.16	7.7	35.5	4.80	1360	1.68	1.76	1.3	137.5	170	80.9
X419824		13.45	<0.05	0.9	0.067	1.12	8.3	37.5	4.75	1370	1.98	1.65	1.3	129.5	220	74.8
X419825		13.95	<0.05	1.1	0.082	1.12	8.6	38.7	4.81	1410	2.17	1.63	1.5	172.0	230	175.5
X419826		13.05	<0.05	1.1	0.068	1.26	7.4	32.0	4.77	1440	0.41	1.70	1.7	139.5	190	78.6
X419827		13.75	0.12	1.1	0.064	1.24	7.3	42.9	4.70	1460	0.72	1.69	1.9	142.5	190	87.8
X419828		14.35	0.11	1.4	0.085	1.16	10.9	48.1	4.94	1680	1.15	1.91	2.4	140.5	290	109.0
X419829		13.55	0.10	1.0	0.059	1.22	7.6	45.8	5.03	1380	2.01	1.80	1.4	149.5	170	85.2
X419830		12.65	0.12	0.9	0.060	1.20	7.0	44.0	5.06	1370	1.77	1.78	1.3	148.0	170	83.2
X419831		11.25	0.27	1.1	0.106	0.31	7.5	10.0	3.97	986	4.83	1.17	5.1	>10000	460	13.8
X419832		14.55	0.13	1.2	0.069	1.17	8.8	44.7	4.78	1430	1.78	1.85	1.6	155.5	220	69.1
X419833		14.70	0.12	1.1	0.068	1.15	9.2	46.4	4.78	1430	2.26	1.84	1.7	130.5	240	63.2
X419835		15.10	0.12	1.2	0.080	1.28	8.1	44.0	4.46	1480	0.60	1.90	2.0	136.0	200	80.1
X419836		13.70	0.14	1.2	0.061	1.21	8.7	45.9	4.82	1680	0.50	1.87	2.2	139.5	230	88.1
X419837		13.70	0.10	1.2	0.077	1.28	9.1	47.6	5.06	1580	0.57	1.85	2.1	140.0	230	86.7
X419838		14.35	0.13	1.0	0.071	1.23	8.4	49.8	5.06	1440	1.42	1.81	1.6	153.5	170	84.9
X419839		13.05	0.11	1.0	0.066	1.18	7.5	45.0	4.92	1380	1.74	1.78	1.4	149.0	180	80.0
X419840		0.17	0.08	<0.1	<0.005	0.02	<0.5	12.9	0.03	33	0.22	0.03	0.3	11.3	10	1.4
X419841		14.45	0.12	1.1	0.060	1.29	8.0	45.7	4.85	1400	1.72	1.95	1.5	144.0	190	73.7
X419842		14.80	0.11	1.2	0.067	1.24	9.2	46.9	4.91	1460	2.15	1.87	1.7	148.5	220	90.7
X419843		13.65	0.13	0.9	0.068	1.28	7.5	45.2	4.92	1490	0.45	1.76	1.7	146.5	190	103.0
X419844		13.60	0.12	1.1	0.071	1.25	8.4	44.8	4.91	1510	0.55	1.79	1.9	133.5	210	87.0
X419845		13.75	0.11	1.1	0.064	1.20	8.4	45.3	4.96	1440	0.76	1.82	1.8	145.0	210	92.4
X419846		14.05	0.12	0.9	0.066	1.25	7.4	49.5	5.22	1380	1.73	1.83	1.4	158.5	160	85.0
X419847		13.35	0.13	0.9	0.069	1.20	7.3	43.9	4.79	1320	1.90	1.81	1.4	145.0	170	78.9
X419848		13.60	0.12	1.0	0.069	1.22	7.9	44.4	4.66	1400	1.91	1.81	1.4	134.0	190	73.4
X419849		14.40	0.13	1.1	0.067	1.28	8.1	43.6	4.63	1380	1.85	1.91	1.5	122.5	190	76.7
X419850		14.10	0.13	1.3	0.056	1.28	7.9	43.7	4.65	1380	1.76	1.93	1.5	121.5	200	75.2



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Project: ODM Infill Samples

CERTIFICATE OF ANALYSIS SD18299892

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		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
X419811		9.8	0.045	8.32	3.07	7.6	20	2.5	181.0	0.30	4.14	1.05	0.526	0.17	0.4	80
X419812		51.5	<0.002	0.03	15.10	32.6	<1	0.6	108.0	0.14	<0.05	1.55	0.325	0.26	0.8	208
X419813		51.5	0.004	0.04	14.20	30.7	<1	0.6	99.5	0.12	<0.05	1.62	0.291	0.24	0.8	192
X419814		51.4	0.002	0.02	9.82	32.6	1	0.6	107.5	0.12	<0.05	1.38	0.286	0.24	0.6	185
X419815		44.5	0.002	0.02	11.95	28.1	<1	0.6	102.5	0.13	<0.05	1.54	0.282	0.19	0.6	179
X419816		46.4	<0.002	0.02	13.50	28.9	<1	0.5	97.2	0.10	<0.05	1.23	0.232	0.23	0.6	177
X419817		43.3	0.002	0.03	13.90	25.4	<1	0.5	88.1	0.09	<0.05	1.21	0.204	0.22	0.6	175
X419818		54.6	0.002	0.02	11.20	37.9	<1	0.5	103.5	0.13	<0.05	1.17	0.329	0.25	0.5	207
X419819		54.6	0.002	0.01	9.78	34.0	<1	0.6	105.5	0.13	<0.05	1.16	0.317	0.26	0.5	198
X419820		0.8	<0.002	<0.01	0.15	0.2	<1	<0.2	1.7	<0.05	<0.05	0.07	0.005	<0.02	<0.1	1
X419821		52.1	<0.002	0.02	10.85	32.0	<1	0.6	108.5	0.14	<0.05	1.17	0.324	0.21	0.6	187
X419822		48.0	<0.002	0.02	13.05	30.6	<1	0.4	102.0	0.10	<0.05	1.03	0.253	0.24	0.5	171
X419823		47.4	<0.002	0.02	11.30	29.4	<1	0.5	103.5	0.10	<0.05	1.03	0.240	0.23	0.5	169
X419824		49.7	0.002	0.02	12.00	29.2	<1	0.5	96.4	0.09	<0.05	1.22	0.238	0.23	0.6	172
X419825		50.1	0.003	0.03	24.2	31.6	<1	0.7	98.3	0.11	<0.05	1.27	0.258	0.23	0.6	179
X419826		57.8	<0.002	0.01	11.75	35.3	<1	0.5	105.5	0.13	<0.05	1.25	0.307	0.24	0.5	198
X419827		56.7	<0.002	0.01	10.20	36.8	1	0.4	102.0	0.13	<0.05	1.19	0.326	0.25	0.6	198
X419828		51.1	<0.002	0.02	12.40	35.3	1	0.6	111.5	0.18	<0.05	1.32	0.371	0.19	0.7	197
X419829		54.3	0.002	0.02	11.00	33.7	<1	0.4	109.0	0.11	<0.05	1.04	0.247	0.20	0.5	172
X419830		50.6	0.003	0.02	10.85	32.3	<1	0.4	104.0	0.10	<0.05	0.93	0.241	0.22	0.4	170
X419831		11.1	0.044	8.59	3.38	8.7	20	2.3	183.0	0.30	4.46	1.09	0.538	0.19	0.3	78
X419832		50.5	<0.002	0.02	12.50	34.1	1	0.4	106.5	0.13	<0.05	1.34	0.277	0.21	0.6	184
X419833		54.2	0.003	0.01	11.20	34.4	1	0.6	112.0	0.13	<0.05	1.34	0.273	0.23	0.6	182
X419835		61.6	<0.002	0.01	12.00	38.0	<1	0.4	110.5	0.14	<0.05	1.39	0.327	0.25	0.7	201
X419836		52.1	<0.002	0.01	8.98	35.9	1	0.6	107.5	0.15	<0.05	1.14	0.371	0.23	0.6	203
X419837		58.1	<0.002	0.01	9.08	36.2	1	0.5	113.0	0.15	<0.05	1.32	0.349	0.23	0.5	204
X419838		57.2	0.003	0.02	15.35	36.0	<1	0.5	109.5	0.11	<0.05	1.18	0.262	0.26	0.5	181
X419839		53.7	0.002	0.02	12.10	33.2	<1	0.4	105.5	0.11	<0.05	1.06	0.243	0.22	0.5	169
X419840		1.2	<0.002	<0.01	0.13	0.4	<1	<0.2	2.3	<0.05	<0.05	0.18	0.005	<0.02	<0.1	2
X419841		52.0	0.003	0.02	11.35	33.5	1	0.5	110.5	0.11	<0.05	1.17	0.256	0.22	0.5	178
X419842		59.5	<0.002	0.02	13.90	36.0	<1	0.5	113.0	0.13	<0.05	1.30	0.283	0.23	0.6	188
X419843		57.2	<0.002	0.01	9.74	35.5	<1	0.5	112.0	0.12	<0.05	1.09	0.282	0.27	0.5	179
X419844		56.7	<0.002	0.01	8.95	35.4	1	0.5	108.5	0.14	<0.05	1.14	0.321	0.24	0.5	193
X419845		55.0	<0.002	0.01	11.45	35.7	1	0.5	110.0	0.13	0.05	1.19	0.293	0.21	0.5	189
X419846		56.8	0.003	0.01	14.35	35.2	1	0.4	110.5	0.11	<0.05	1.05	0.235	0.25	0.5	170
X419847		54.6	0.002	0.02	13.85	33.2	<1	0.4	104.0	0.10	<0.05	1.03	0.238	0.20	0.5	166
X419848		54.8	<0.002	0.01	10.85	33.3	<1	0.4	106.5	0.10	<0.05	1.12	0.241	0.23	0.5	167
X419849		57.6	<0.002	0.02	11.35	33.2	<1	0.5	115.0	0.12	<0.05	1.15	0.256	0.23	0.5	174
X419850		54.9	<0.002	0.02	11.00	33.0	1	0.4	116.0	0.12	<0.05	1.15	0.256	0.24	0.5	173



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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Cu-OG62	Ni-OG62	PUL-QC
	Analyte	W	Y	Zn	Zr	Cu	Ni	Pass75um
Units		ppm	ppm	ppm	ppm	%	%	%
LOD		0.1	0.1	2	0.5	0.001	0.001	0.01
X419811		2.2	8.6	142	48.6	1.635	4.52	
X419812		0.4	15.6	101	48.4			92.0
X419813		0.3	15.4	109	43.8			96.4
X419814		0.4	16.9	117	43.8			
X419815		0.5	14.7	124	48.7			
X419816		0.3	14.4	102	36.6			
X419817		0.3	13.5	112	28.4			
X419818		0.3	14.6	101	37.7			
X419819		0.4	14.3	119	38.7			
X419820		<0.1	0.3	4	0.5			
X419821		0.4	16.7	116	43.8			
X419822		0.2	13.2	90	33.7			
X419823		0.2	13.0	88	33.4			
X419824		0.3	14.0	90	33.6			
X419825		0.3	14.5	132	40.2			
X419826		0.2	14.4	103	42.1			
X419827		0.3	15.5	107	41.8			
X419828		0.5	17.2	155	50.5			
X419829		0.3	13.9	96	35.1			
X419830		0.3	13.0	98	32.0			
X419831		3.6	9.2	143	48.1	1.645	4.55	
X419832		0.3	16.0	89	44.4			
X419833		0.3	16.4	91	44.5			
X419835		0.3	17.0	102	45.7			
X419836		0.4	16.1	136	42.1			
X419837		0.3	17.2	120	42.4			
X419838		0.3	14.9	99	37.9			
X419839		0.3	13.6	92	35.3			
X419840		0.1	0.5	8	0.5			
X419841		0.3	14.6	108	39.9			
X419842		0.4	16.3	105	43.7			
X419843		0.3	14.4	127	36.9			
X419844		0.4	16.0	116	40.0			
X419845		0.3	15.6	103	40.7			
X419846		0.3	13.5	97	35.4			
X419847		0.3	13.3	92	34.6			
X419848		0.3	14.6	98	36.6			
X419849		0.3	14.9	94	40.3			
X419850		0.3	14.7	93	39.0			



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CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.
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.
Cu-OG62 ME-MS61 ME-OG62 Ni-OG62



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CERTIFICATE SD18307282

Project: ODM Infill Samples
 P.O. No.: ODM #1608
 This report is for 67 Tailings samples submitted to our lab in Sudbury, ON, Canada on 3-DEC-2018.
 The following have access to data associated with this certificate:

SEUN AJBODE GEORDIE HAMILTON DAVID HOZJAN (ODM) FRANK PLOEGER ISAAC RIDDLE	PETER DOYLE MIKE HENDRICKSON MALLORY METCALF IAN PRINGLE CLYDE SMITH	JON EDWARDS SEAN HICKS SARAH MILLS MERCEDES RICH
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
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
Ag-OG62	Ore Grade Ag - Four Acid
ME-OG62	Ore Grade Elements - Four Acid
Co-OG62	Ore Grade Co - Four Acid
Ni-OG62	Ore Grade Ni - Four Acid
ME-MS61	48 element four acid 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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CERTIFICATE OF ANALYSIS SD18307282

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Units		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
LOD		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
X419851		0.07	0.80	6.94	2.3	250	0.87	0.07	5.66	0.82	37.4	>10000	166	0.70	1865	7.20
X419852		0.85	>100	7.54	1200	170	0.59	7.77	7.49	0.24	16.90	266	161	1.15	137.5	6.28
X419853		0.99	70.5	7.51	724	170	0.60	7.26	7.77	0.17	15.85	209	225	1.12	84.5	6.70
X419854		0.99	50.9	7.30	619	160	0.67	5.68	7.57	0.13	15.60	183.5	216	1.10	79.8	6.43
X419855		0.92	48.9	7.69	597	160	0.59	3.46	7.38	0.14	14.30	160.5	201	1.09	78.9	6.09
X419856		0.95	33.1	7.93	675	150	0.81	2.67	7.73	0.13	16.25	143.5	187	1.18	68.6	6.19
X419857		0.92	>100	7.73	518	180	0.56	6.27	7.89	0.25	17.60	167.0	197	1.24	136.5	6.44
X419858		1.06	>100	7.72	936	170	0.70	16.45	7.60	0.21	17.00	243	218	1.22	133.0	6.42
X419859		0.95	47.7	7.36	383	160	0.62	4.09	7.11	0.12	14.85	128.0	190	1.03	69.7	6.19
X419860		0.11	0.40	0.03	3.6	<10	0.12	0.08	0.02	<0.02	0.12	3.1	4	0.05	1.5	0.35
X419861		1.01	51.5	7.39	380	160	0.62	5.93	7.09	0.13	16.15	126.5	192	1.13	78.3	6.14
X419862		0.87	23.7	7.59	448	180	0.59	4.93	7.71	0.15	14.40	107.5	208	1.20	77.9	6.78
X419863		0.90	25.2	7.26	399	170	0.62	3.59	7.37	0.16	13.85	103.5	194	1.17	70.5	6.42
X419864		0.98	14.65	7.42	391	170	0.54	3.08	7.12	0.12	12.30	87.6	166	1.12	64.0	6.03
X419865		1.02	22.6	7.25	464	170	0.57	3.69	7.11	0.14	11.80	97.2	183	1.07	68.6	6.07
X419866		0.94	54.9	7.20	597	180	0.65	11.50	7.21	0.21	16.10	173.0	200	1.33	110.0	6.35
X419867		0.98	70.2	7.19	668	190	0.56	14.90	7.36	0.16	17.10	193.0	182	1.30	112.5	6.38
X419868		0.88	63.4	7.47	650	200	0.64	16.20	7.44	0.20	17.35	189.5	192	1.31	106.0	6.61
X419869		0.89	62.8	7.14	582	240	0.64	13.40	6.50	0.18	24.9	183.5	178	1.28	104.5	5.76
X419870		0.86	59.7	7.11	560	250	0.81	11.80	6.51	0.21	24.6	176.0	170	1.32	102.0	5.68
X419871		0.07	0.97	6.72	4.8	240	0.91	0.12	5.55	0.82	37.6	>10000	167	0.73	1810	6.99
X419872		0.87	33.2	7.24	323	160	0.71	4.38	7.17	0.11	18.75	106.5	171	1.15	72.1	5.83
X419873		0.81	30.7	7.29	386	170	0.70	4.46	7.24	0.16	16.90	99.2	179	1.15	71.4	6.05
X419874		0.81	70.4	7.67	561	190	0.76	6.34	7.80	0.18	17.50	127.0	214	1.28	82.6	6.62
X419875		0.87	36.6	6.82	380	230	0.76	7.07	5.75	0.15	23.5	115.5	241	1.06	90.5	5.87
X419876		0.88	45.9	7.37	581	180	0.61	7.85	7.38	0.17	15.75	143.0	228	1.21	92.3	6.56
X419877		0.93	68.2	7.14	609	180	0.69	7.80	7.85	0.17	16.20	180.0	215	1.34	107.5	6.98
X419878		0.82	22.6	7.22	576	170	0.61	4.02	7.13	0.16	17.35	138.5	235	1.34	76.7	6.44
X419879		0.91	46.1	7.16	987	170	0.56	7.71	7.66	0.20	15.95	237	271	1.32	106.0	7.03
X419880		0.14	0.09	0.06	1.3	<10	0.17	0.03	0.03	<0.02	0.24	0.5	5	0.07	2.0	0.73
X419881		0.90	62.3	7.56	502	200	0.73	12.45	7.65	0.14	18.55	142.0	188	1.36	101.5	6.77
X419882		0.90	53.7	7.15	481	190	0.71	12.55	7.62	0.17	16.10	148.0	198	1.29	104.0	6.96
X419883		0.78	50.7	7.01	463	180	0.64	10.35	7.76	0.16	15.95	144.0	203	1.24	104.5	7.00
X419884		0.86	49.6	7.10	411	190	0.62	11.45	7.73	0.20	15.85	140.5	207	1.24	109.5	7.02
X419885		0.81	49.7	6.97	366	180	0.53	8.83	7.29	0.21	16.05	134.0	199	1.19	95.9	6.49
X419886		0.83	54.8	7.75	337	210	0.62	8.89	7.60	0.16	17.15	137.5	192	1.32	101.0	6.79
X419887		0.81	63.5	7.38	511	200	0.72	9.24	7.31	0.24	18.25	162.5	215	1.29	111.0	6.65
X419888		0.68	47.0	7.05	502	240	0.72	6.40	6.24	0.62	24.7	147.5	197	1.29	111.0	5.55
X419889		0.74	46.9	7.40	318	250	0.75	6.33	6.85	0.32	22.0	123.0	189	1.26	102.5	5.94
X419890		0.69	50.7	7.35	348	240	0.69	6.70	6.99	0.29	21.0	131.0	195	1.26	105.0	6.03



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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units LOD	ppm 0.05	ppm 0.05	ppm 0.1	ppm 0.005	% 0.01	ppm 0.5	ppm 0.2	% 0.01	ppm 5	ppm 0.05	% 0.01	ppm 0.1	ppm 0.2	ppm 10	ppm 0.5
X419851		18.30	0.12	3.3	0.058	0.68	18.3	6.6	3.73	941	2.73	2.22	20.3	>10000	1470	22.4
X419852		13.95	0.06	1.1	0.069	1.33	7.6	42.0	4.58	1380	5.24	1.91	1.4	170.0	210	165.5
X419853		14.00	0.05	1.1	0.078	1.34	7.0	39.9	5.42	1540	0.54	1.77	1.8	163.0	150	84.0
X419854		13.25	0.06	1.0	0.070	1.28	6.9	38.4	5.28	1480	0.52	1.71	1.7	156.0	170	85.1
X419855		13.35	0.07	0.9	0.067	1.30	6.5	38.9	5.00	1370	0.58	1.84	1.4	150.0	170	85.1
X419856		14.40	0.06	1.0	0.070	1.28	7.5	43.3	4.99	1410	1.53	1.91	1.4	146.5	190	86.0
X419857		14.25	0.05	1.0	0.074	1.40	8.1	44.1	4.98	1460	2.37	1.81	1.3	155.5	180	154.0
X419858		14.70	0.06	1.1	0.070	1.40	7.6	44.8	5.07	1430	1.76	1.85	1.5	182.0	190	159.5
X419859		13.25	0.06	1.1	0.068	1.29	6.6	38.5	4.64	1360	0.50	1.97	1.5	124.0	200	80.0
X419860		0.15	<0.05	<0.1	<0.005	0.01	<0.5	14.8	0.01	39	0.11	0.01	0.1	3.8	<10	0.8
X419861		13.85	0.07	1.1	0.065	1.34	7.4	40.5	4.66	1340	0.49	1.85	1.7	126.0	180	68.5
X419862		14.20	0.06	1.1	0.076	1.51	6.5	41.0	5.18	1460	0.65	1.70	1.8	135.0	170	66.3
X419863		14.20	0.05	1.1	0.062	1.44	6.2	41.5	4.85	1400	0.94	1.70	1.8	125.5	170	72.1
X419864		13.15	0.05	1.0	0.061	1.43	5.5	40.3	4.53	1280	1.10	1.72	1.5	111.0	160	53.7
X419865		12.50	0.05	0.9	0.054	1.43	5.2	38.5	4.66	1310	0.82	1.67	1.4	115.0	160	56.5
X419866		13.40	0.05	1.0	0.072	1.40	7.2	43.8	4.73	1380	1.04	1.67	1.5	144.5	200	135.5
X419867		14.95	0.05	1.1	0.079	1.45	7.6	47.7	4.53	1420	1.37	1.83	1.6	146.0	210	154.0
X419868		14.35	0.07	1.1	0.076	1.46	7.7	46.1	4.76	1460	1.08	1.87	1.5	144.0	200	167.0
X419869		13.55	0.06	1.4	0.061	1.47	11.0	39.9	4.29	1240	0.93	1.87	2.2	146.0	270	155.5
X419870		14.50	0.05	1.6	0.067	1.46	10.7	40.3	4.16	1220	0.94	1.98	2.6	138.0	310	149.5
X419871		18.55	0.10	3.2	0.062	0.66	18.2	7.2	3.64	920	2.60	2.15	20.3	>10000	1410	17.4
X419872		13.90	0.05	1.1	0.075	1.37	8.3	45.7	4.24	1300	0.43	1.89	1.5	122.0	180	75.6
X419873		13.95	0.05	1.1	0.073	1.38	7.5	45.1	4.42	1340	0.57	1.87	1.6	113.5	180	79.3
X419874		14.65	0.07	1.2	0.071	1.47	7.7	46.9	5.04	1470	1.19	1.83	1.8	134.0	200	98.5
X419875		13.75	0.06	1.7	0.060	1.24	10.1	36.0	4.25	1190	1.15	1.89	2.6	130.0	270	95.5
X419876		13.45	0.05	1.0	0.074	1.45	7.0	44.2	5.10	1450	1.02	1.70	1.7	140.5	190	113.5
X419877		12.80	0.05	1.1	0.073	1.43	7.2	39.3	5.40	1560	0.43	1.62	2.0	146.0	150	119.5
X419878		12.90	0.08	1.1	0.077	1.41	7.7	42.1	5.09	1400	0.73	1.65	1.9	149.0	170	71.2
X419879		13.10	0.09	1.2	0.068	1.43	7.3	40.7	5.52	1540	0.54	1.57	2.1	180.0	160	86.2
X419880		0.21	<0.05	<0.1	<0.005	0.01	<0.5	14.5	0.01	78	0.17	0.02	<0.1	1.6	10	0.5
X419881		13.65	0.09	1.2	0.071	1.55	8.4	43.7	5.09	1520	0.96	1.83	1.8	141.5	160	132.5
X419882		12.75	0.09	1.2	0.086	1.41	7.1	40.3	5.37	1580	0.77	1.67	1.8	147.5	160	157.0
X419883		12.50	0.08	1.0	0.068	1.37	7.0	39.3	5.50	1610	0.77	1.63	1.8	149.0	150	150.5
X419884		12.95	0.08	1.1	0.079	1.38	7.0	41.5	5.51	1590	0.71	1.65	1.8	150.0	150	156.0
X419885		12.60	0.08	1.1	0.076	1.37	7.1	39.9	4.97	1470	0.70	1.68	1.7	138.5	140	143.5
X419886		13.90	0.11	1.1	0.074	1.55	7.7	43.8	5.15	1500	0.78	1.90	1.7	142.0	170	154.5
X419887		13.60	0.12	1.1	0.071	1.46	8.4	42.9	4.93	1470	1.27	1.77	1.7	149.5	180	154.0
X419888		12.65	0.12	1.5	0.063	1.44	12.1	35.2	3.96	1220	1.72	1.81	2.2	155.0	270	129.5
X419889		13.15	0.14	1.6	0.064	1.59	10.2	37.9	4.44	1300	1.21	1.90	2.4	139.5	220	120.5
X419890		13.20	0.10	1.6	0.061	1.53	9.6	39.0	4.55	1330	1.11	1.86	2.2	140.5	210	122.0



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Project: ODM Infill Samples

CERTIFICATE OF ANALYSIS SD18307282

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		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
X419851		19.4	<0.002	2.67	2.30	18.2	1	1.4	414	1.17	<0.05	2.55	1.015	0.09	0.7	144
X419852		43.1	<0.002	0.08	27.1	30.5	<1	0.6	111.5	0.11	<0.05	1.11	0.255	0.26	0.6	175
X419853		59.9	<0.002	0.02	13.80	42.2	1	0.5	110.0	0.13	<0.05	1.07	0.341	0.28	0.5	208
X419854		56.9	<0.002	0.02	13.30	39.6	1	0.5	105.5	0.12	<0.05	1.02	0.322	0.25	0.4	199
X419855		57.5	<0.002	0.02	12.15	34.6	1	0.4	108.5	0.11	<0.05	1.00	0.270	0.27	0.5	180
X419856		54.2	<0.002	0.02	14.70	34.3	<1	0.5	114.0	0.10	<0.05	1.07	0.262	0.24	0.5	179
X419857		61.4	0.002	0.05	22.5	35.2	<1	0.5	110.5	0.10	<0.05	1.12	0.253	0.27	0.5	185
X419858		59.4	<0.002	0.04	26.0	36.1	1	0.5	112.0	0.11	<0.05	1.22	0.263	0.27	0.6	185
X419859		37.2	<0.002	0.01	9.29	29.9	<1	0.5	109.0	0.11	<0.05	1.05	0.269	0.24	0.5	180
X419860		0.3	<0.002	<0.01	0.08	0.1	<1	<0.2	0.7	<0.05	<0.05	0.01	<0.005	<0.02	<0.1	1
X419861		58.9	<0.002	0.01	9.17	35.3	1	0.5	108.0	0.12	<0.05	1.18	0.293	0.24	0.5	184
X419862		66.3	<0.002	0.01	8.70	39.8	1	0.6	110.0	0.13	<0.05	1.16	0.338	0.30	0.5	211
X419863		57.5	<0.002	0.01	9.89	39.2	<1	0.6	111.0	0.13	<0.05	1.06	0.317	0.29	0.6	198
X419864		58.3	<0.002	0.02	6.23	33.5	1	0.5	109.0	0.11	<0.05	1.00	0.280	0.29	0.5	183
X419865		57.1	<0.002	0.02	6.84	33.0	1	0.5	104.0	0.10	<0.05	0.98	0.289	0.25	0.4	188
X419866		59.7	0.002	0.03	16.10	34.3	1	0.6	104.0	0.11	<0.05	1.15	0.281	0.27	0.6	185
X419867		46.4	<0.002	0.02	20.0	33.8	<1	0.7	111.5	0.11	<0.05	1.14	0.273	0.30	0.7	185
X419868		50.5	<0.002	0.02	18.70	34.4	1	0.6	108.0	0.11	<0.05	1.20	0.278	0.27	0.6	192
X419869		59.2	<0.002	0.04	16.35	29.3	<1	0.7	143.5	0.15	<0.05	1.80	0.271	0.28	0.7	165
X419870		54.2	<0.002	0.04	16.25	30.3	1	0.7	158.0	0.18	<0.05	1.93	0.280	0.31	0.8	164
X419871		19.5	<0.002	2.59	2.10	18.1	1	1.3	402	1.12	<0.05	2.56	0.989	0.10	0.7	140
X419872		54.2	<0.002	0.01	10.10	33.6	1	0.5	109.5	0.11	<0.05	1.11	0.260	0.27	0.6	173
X419873		51.6	<0.002	0.01	11.65	33.9	1	0.5	107.5	0.11	<0.05	1.12	0.283	0.25	0.6	180
X419874		61.5	<0.002	0.03	13.75	40.3	1	0.6	119.0	0.13	<0.05	1.24	0.322	0.30	0.6	204
X419875		48.6	0.003	0.05	12.60	32.0	<1	0.9	154.0	0.19	<0.05	1.99	0.331	0.26	0.9	174
X419876		61.7	<0.002	0.02	14.60	38.4	<1	0.7	105.5	0.12	<0.05	1.12	0.318	0.30	0.5	201
X419877		60.9	<0.002	0.02	17.20	40.7	1	0.7	104.5	0.13	<0.05	1.24	0.349	0.27	0.5	220
X419878		60.1	<0.002	0.02	11.70	36.5	<1	0.6	106.5	0.13	<0.05	1.27	0.319	0.24	0.5	196
X419879		60.6	<0.002	0.02	13.60	41.8	<1	0.7	107.0	0.15	<0.05	1.27	0.374	0.29	0.5	224
X419880		0.5	<0.002	0.01	<0.05	0.4	1	<0.2	1.1	<0.05	<0.05	0.02	<0.005	<0.02	<0.1	1
X419881		65.6	<0.002	0.03	19.45	39.6	1	0.7	112.5	0.13	<0.05	1.29	0.318	0.31	0.5	206
X419882		59.1	<0.002	0.02	18.90	40.8	1	0.6	104.5	0.14	<0.05	1.24	0.332	0.27	0.5	216
X419883		57.2	0.002	0.03	20.6	43.1	<1	0.6	103.5	0.13	<0.05	1.17	0.344	0.31	0.5	224
X419884		59.1	0.002	0.03	21.8	44.3	1	0.6	106.5	0.13	<0.05	1.19	0.335	0.28	0.5	221
X419885		55.7	0.002	0.03	18.50	38.5	<1	0.5	106.0	0.13	<0.05	1.16	0.300	0.28	0.5	201
X419886		62.0	<0.002	0.03	18.90	40.5	1	0.5	119.0	0.13	<0.05	1.21	0.294	0.33	0.5	207
X419887		59.9	<0.002	0.05	19.30	38.6	<1	0.6	113.0	0.13	<0.05	1.24	0.289	0.30	0.6	196
X419888		56.7	<0.002	0.12	14.95	29.8	<1	0.7	148.5	0.16	<0.05	2.02	0.258	0.26	0.8	160
X419889		62.6	<0.002	0.10	15.50	33.2	1	0.6	155.0	0.15	<0.05	1.88	0.275	0.33	0.7	173
X419890		61.0	0.002	0.09	16.30	34.4	1	0.5	145.0	0.17	<0.05	1.74	0.277	0.29	0.7	178



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Co-OG62	Ni-OG62	PUL-QC
		W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Co %	Ni %	Pass75um %
		0.1	0.1	2	0.5	1	0.0005	0.001	0.01
X419851		1.7	21.5	124	131.0		2.07	2.32	
X419852		0.3	15.2	135	37.1	109			91.0
X419853		0.3	16.0	104	37.0				92.0
X419854		0.3	15.3	100	32.8				
X419855		0.3	14.1	96	30.6				
X419856		0.3	15.0	98	34.6				
X419857		0.3	16.1	137	34.4	129			
X419858		0.3	16.3	125	41.1	97			
X419859		0.2	14.4	93	35.9				
X419860		<0.1	0.1	<2	0.7				
X419861		0.3	15.4	87	37.3				
X419862		0.3	15.5	102	37.4				
X419863		0.3	15.2	101	36.2				
X419864		0.2	13.6	87	33.7				
X419865		0.2	13.1	94	31.8				
X419866		0.3	15.3	123	34.9				
X419867		0.3	16.5	118	41.0				
X419868		0.3	16.5	127	38.4				
X419869		0.3	15.5	121	49.4				
X419870		0.4	16.0	118	55.0				
X419871		1.7	20.7	123	131.0		2.01	2.29	
X419872		0.3	16.1	88	36.7				
X419873		0.3	15.7	96	36.4				
X419874		0.4	16.5	107	40.6				
X419875		25.9	13.9	100	59.6				
X419876		0.8	15.6	109	35.6				
X419877		0.3	15.5	109	37.9				
X419878		0.4	13.9	100	38.5				
X419879		0.4	14.7	108	40.2				89.1
X419880		<0.1	0.2	3	<0.5				99.2
X419881		0.3	15.6	112	37.8				
X419882		0.3	15.3	119	36.9				
X419883		0.3	15.4	119	34.8				
X419884		0.3	15.8	123	35.7				
X419885		0.3	14.7	115	35.6				
X419886		0.3	15.2	119	36.2				
X419887		0.3	15.2	132	38.1				
X419888		0.3	15.1	203	52.8				
X419889		0.3	14.5	126	59.4				
X419890		0.3	14.8	124	54.0				98.7



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Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	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 %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
X419891		0.06	0.84	6.99	2.4	250	0.98	0.08	5.68	0.71	38.4	>10000	166	0.77	1855	7.23
X419892		0.97	38.6	7.61	506	200	0.85	8.45	7.87	0.15	19.15	151.5	190	1.48	97.0	7.04
X419893		0.88	39.1	7.80	463	200	0.75	9.11	7.93	0.15	19.75	135.5	186	1.49	87.7	6.91
X419894		0.91	28.8	7.78	457	200	0.66	8.45	7.52	0.14	17.50	106.5	177	1.30	76.1	6.49
X419895		0.81	36.5	7.58	521	190	0.77	7.79	7.54	0.17	17.95	132.5	179	1.39	91.2	6.53
X419896		0.88	68.6	7.76	646	200	0.64	10.95	7.74	0.16	18.50	160.5	188	1.44	107.5	6.83
X419897		0.84	51.2	7.05	528	180	0.64	8.05	7.48	0.13	16.30	142.5	201	1.32	100.5	6.68
X419898		0.78	63.9	7.15	610	190	0.64	17.95	7.29	0.37	20.6	199.0	211	1.35	122.0	6.60
X419899		0.86	54.0	7.29	463	200	0.63	10.45	7.51	0.26	18.70	161.0	220	1.32	103.0	6.74
X419900		0.13	0.44	0.05	3.2	<10	0.16	0.12	0.04	<0.02	0.21	2.0	11	0.07	3.0	0.99
X419901		0.87	52.4	7.26	402	190	0.70	10.35	7.41	0.20	17.05	144.5	200	1.23	95.6	6.62
X419902		0.81	55.8	7.58	409	200	0.66	9.04	7.55	0.19	17.60	155.0	189	1.26	101.0	6.74
X419903		0.97	>100	7.22	590	200	0.82	15.80	7.63	0.16	16.30	194.5	210	1.36	108.0	6.94
X419904		0.85	>100	7.29	681	190	0.70	13.70	7.74	0.16	16.70	176.5	204	1.39	109.5	6.97
X419905		0.82	96.8	7.25	697	180	0.56	10.60	6.96	0.14	15.60	144.5	202	1.31	95.3	6.16
X419906		0.76	65.4	7.60	597	210	0.68	11.00	7.36	0.13	17.20	146.5	196	1.34	99.8	6.58
X419907		0.82	44.1	7.74	579	210	0.59	11.45	7.20	0.15	16.85	129.0	180	1.24	87.6	6.24
X419908		0.68	61.7	7.36	614	200	0.71	10.80	7.15	0.27	19.50	166.0	197	1.45	112.0	6.33
X419909		0.88	89.0	7.57	613	200	0.75	11.55	7.46	0.16	17.60	158.5	192	1.37	103.5	6.57
X419910		0.91	85.6	7.62	654	200	0.79	14.20	7.36	0.18	18.65	169.0	188	1.43	109.5	6.73
X419911		0.07	0.88	6.67	3.1	240	0.97	0.11	5.33	0.71	37.1	>10000	154	0.74	1875	6.97
X419912		0.76	66.1	7.55	713	200	0.63	10.30	7.17	0.21	20.0	213	180	1.35	104.0	6.47
X419913		0.85	64.3	7.22	734	190	0.65	13.55	6.92	0.19	17.35	200	181	1.27	117.0	6.31
X419914		0.81	54.6	6.96	555	160	0.64	6.39	7.03	0.11	15.50	108.5	192	1.13	75.1	6.36
X419915		0.82	41.7	6.96	429	170	0.59	6.08	7.12	0.14	14.70	101.5	195	1.06	80.2	6.46
X419916		0.71	85.7	7.56	911	200	0.76	14.75	7.59	0.31	19.00	232	225	1.55	154.5	7.13
X419917		0.76	62.0	7.56	807	200	0.68	13.25	7.23	0.27	17.20	187.0	212	1.27	109.0	6.58



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CERTIFICATE OF ANALYSIS SD18307282

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
Units		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
LOD		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
X419891		17.65	0.17	3.4	0.064	0.68	19.6	7.4	3.75	944	2.65	2.23	21.4	>10000	1480	18.8
X419892		14.00	0.10	1.2	0.082	1.55	8.5	47.1	5.07	1560	0.51	1.87	2.0	155.0	170	116.5
X419893		14.45	0.11	1.2	0.078	1.57	8.7	48.1	5.07	1560	0.54	1.93	1.9	137.0	180	124.0
X419894		14.00	0.11	1.1	0.075	1.55	7.8	45.2	4.74	1430	1.09	1.93	1.6	121.0	170	118.0
X419895		14.25	0.13	1.1	0.081	1.52	8.1	46.8	4.73	1410	1.04	1.81	1.6	132.5	190	103.5
X419896		14.05	0.11	1.2	0.077	1.56	8.3	46.8	5.01	1500	1.29	1.84	1.7	142.5	200	139.5
X419897		12.95	0.10	1.1	0.077	1.42	7.2	41.0	5.08	1480	0.99	1.64	1.8	140.5	170	121.0
X419898		13.05	0.09	1.2	0.071	1.37	9.3	41.9	4.83	1470	1.23	1.70	1.8	162.5	230	169.5
X419899		13.20	0.12	1.1	0.074	1.42	8.4	40.6	5.07	1520	0.94	1.74	1.8	155.5	200	148.0
X419900		0.28	0.06	<0.1	<0.005	0.01	<0.5	14.5	0.02	107	0.46	0.01	0.1	5.3	<10	1.3
X419901		13.25	0.11	1.1	0.064	1.41	7.8	39.6	5.06	1500	0.73	1.75	1.7	145.0	170	147.5
X419902		13.65	0.12	1.1	0.072	1.44	7.7	41.7	5.01	1520	0.75	1.83	1.7	148.0	170	154.5
X419903		13.50	0.09	1.2	0.073	1.45	7.2	42.1	5.39	1560	0.44	1.66	1.9	154.0	170	158.0
X419904		13.55	0.12	1.2	0.076	1.49	7.5	43.4	5.24	1540	0.87	1.71	1.8	152.0	170	142.0
X419905		13.75	0.14	1.2	0.083	1.36	6.9	36.7	4.62	1420	1.44	1.61	1.6	133.5	160	123.0
X419906		14.15	0.16	1.1	0.069	1.57	7.7	45.9	4.85	1440	1.05	1.90	1.7	134.5	170	153.5
X419907		14.20	0.11	1.1	0.070	1.60	7.3	44.5	4.52	1360	1.00	1.95	1.4	121.5	200	143.5
X419908		14.30	0.14	1.1	0.069	1.50	8.8	45.5	4.43	1350	1.74	1.81	1.6	142.0	210	144.5
X419909		13.80	0.11	1.1	0.062	1.53	7.8	44.7	4.92	1460	1.01	1.81	1.7	140.0	180	141.0
X419910		14.90	0.14	1.2	0.072	1.54	8.1	48.3	4.78	1520	0.99	1.83	1.8	148.5	200	152.0
X419911		18.15	0.17	3.3	0.063	0.65	18.6	7.2	3.48	937	2.58	2.14	21.8	>10000	1450	18.5
X419912		14.35	0.13	1.2	0.076	1.48	9.1	43.8	4.40	1420	0.97	1.82	1.6	157.5	220	133.5
X419913		14.35	0.08	1.2	0.071	1.39	7.8	42.0	4.51	1400	1.63	1.73	1.6	148.5	220	135.5
X419914		13.60	0.08	1.0	0.072	1.29	6.8	41.0	4.85	1450	0.90	1.63	1.8	120.5	180	81.7
X419915		13.15	0.07	1.1	0.073	1.37	6.6	38.8	4.89	1480	0.79	1.65	1.7	118.5	170	88.2
X419916		15.35	0.07	1.2	0.084	1.45	8.5	49.8	5.18	1580	1.98	1.71	1.7	176.0	260	192.0
X419917		14.80	0.07	1.2	0.080	1.48	7.7	43.4	4.83	1480	1.46	1.77	1.6	147.5	220	155.0



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CERTIFICATE OF ANALYSIS SD18307282

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		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
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
X419891		18.8	<0.002	2.62	2.02	18.5	1	1.3	416	1.22	<0.05	2.74	1.010	0.09	0.6	144
X419892		65.6	<0.002	0.02	11.70	42.3	1	0.6	114.0	0.14	<0.05	1.29	0.331	0.30	0.6	211
X419893		67.0	<0.002	0.01	12.80	41.1	<1	0.6	117.5	0.13	<0.05	1.28	0.321	0.32	0.6	207
X419894		60.7	0.002	0.02	17.10	36.8	<1	0.5	117.5	0.12	<0.05	1.23	0.279	0.31	0.6	190
X419895		59.1	<0.002	0.02	12.80	36.2	<1	0.6	114.0	0.12	<0.05	1.34	0.279	0.28	0.6	189
X419896		66.1	0.002	0.03	23.5	38.0	1	0.6	115.5	0.12	<0.05	1.36	0.296	0.28	0.6	200
X419897		62.3	0.002	0.03	18.45	40.4	1	0.6	105.5	0.12	<0.05	1.19	0.318	0.31	0.5	205
X419898		59.7	0.002	0.06	19.85	37.2	1	0.6	107.5	0.13	<0.05	1.43	0.290	0.26	0.7	193
X419899		58.8	0.003	0.04	18.50	39.8	1	0.6	110.5	0.14	<0.05	1.27	0.309	0.26	0.6	203
X419900		0.6	<0.002	<0.01	0.15	0.4	<1	<0.2	1.1	<0.05	<0.05	0.02	<0.005	<0.02	<0.1	1
X419901		60.7	<0.002	0.03	18.15	40.7	1	0.6	110.5	0.13	<0.05	1.24	0.301	0.26	0.5	201
X419902		61.6	0.002	0.03	18.30	38.4	<1	0.6	114.0	0.12	<0.05	1.16	0.290	0.27	0.5	199
X419903		64.2	<0.002	0.02	18.20	43.6	<1	0.6	110.0	0.14	<0.05	1.26	0.329	0.29	0.5	214
X419904		63.8	0.002	0.02	19.55	42.3	1	0.6	107.0	0.13	<0.05	1.27	0.324	0.29	0.5	212
X419905		60.7	0.002	0.03	24.4	36.3	1	0.6	100.5	0.12	<0.05	1.06	0.282	0.28	0.5	192
X419906		58.9	<0.002	0.02	20.4	38.5	<1	0.5	117.5	0.13	<0.05	1.15	0.277	0.32	0.5	192
X419907		55.5	<0.002	0.02	20.4	34.3	1	0.5	119.0	0.11	<0.05	1.13	0.248	0.31	0.5	179
X419908		54.7	0.002	0.09	22.1	35.4	1	0.6	119.5	0.11	<0.05	1.28	0.251	0.31	0.7	174
X419909		65.9	0.002	0.02	20.0	38.9	1	0.5	112.0	0.13	<0.05	1.20	0.287	0.28	0.6	194
X419910		68.1	0.002	0.02	20.7	41.0	<1	0.6	118.5	0.12	<0.05	1.33	0.295	0.30	0.6	202
X419911		19.0	<0.002	2.67	2.82	18.5	1	1.4	410	1.21	<0.05	2.59	0.997	0.10	0.6	141
X419912		63.5	0.002	0.04	20.9	36.7	1	0.7	116.0	0.13	<0.05	1.38	0.282	0.32	0.6	190
X419913		61.9	<0.002	0.05	18.05	32.6	1	0.7	108.5	0.14	0.06	1.23	0.277	0.26	0.5	185
X419914		58.6	<0.002	0.01	14.15	36.7	1	0.5	99.9	0.14	0.05	1.07	0.311	0.24	0.5	198
X419915		60.3	0.002	0.02	13.20	38.8	1	0.5	101.5	0.14	<0.05	1.08	0.322	0.24	0.5	205
X419916		65.0	0.002	0.06	28.5	35.8	1	0.9	108.0	0.13	<0.05	1.30	0.299	0.28	0.6	203
X419917		64.3	<0.002	0.04	22.9	35.3	1	0.6	110.0	0.13	0.05	1.20	0.284	0.28	0.6	194



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CERTIFICATE OF ANALYSIS SD18307282

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Co-OG62	Ni-OG62	PUL-QC
		W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Co %	Ni %	Pass75um %
		0.1	0.1	2	0.5	1	0.0005	0.001	0.01
X419891		1.7	20.1	124	134.0		2.02	2.28	
X419892		0.3	17.0	107	38.8				
X419893		0.3	17.3	110	41.5				
X419894		0.3	15.5	101	37.8				
X419895		0.3	15.8	106	41.5				
X419896		0.3	16.3	111	41.3				
X419897		0.3	15.2	104	35.0				
X419898		0.4	16.3	157	39.5				
X419899		0.3	15.8	137	38.6				
X419900		<0.1	0.2	2	<0.5				
X419901		0.3	15.4	122	36.8				
X419902		0.3	15.3	127	36.8				
X419903		0.3	15.9	119	39.4	258			
X419904		0.3	16.1	114	39.1	142			
X419905		0.3	15.8	103	37.2	77			
X419906		0.3	15.4	111	37.6				
X419907		0.2	14.6	105	37.2				
X419908		0.3	15.7	133	40.5				
X419909		0.3	15.6	110	40.0				
X419910		0.3	16.4	119	42.0				
X419911		1.7	20.1	127	135.0		1.945	2.18	
X419912		0.3	16.0	121	43.1				
X419913		0.3	15.6	124	39.2				
X419914		0.3	15.2	95	34.3				
X419915		0.3	15.3	97	36.2				
X419916		0.3	17.7	152	39.3				
X419917		0.3	16.0	134	39.1				



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CERTIFICATE OF ANALYSIS SD18307282

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
 ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.
 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-OG62 Co-OG62 ME-MS61 ME-OG62
 Ni-OG62



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CERTIFICATE SD18310993

Project: ODM Infill Samples
 P.O. No.: ODM #1609
 This report is for 44 Tailings samples submitted to our lab in Sudbury, ON, Canada on 6-DEC-2018.
 The following have access to data associated with this certificate:

SEUN AJBODE GEORDIE HAMILTON DAVID HOZJAN (ODM) FRANK PLOEGER ISAAC RIDDLE	PETER DOYLE MIKE HENDRICKSON MALLORY METCALF IAN PRINGLE CLYDE SMITH	JON EDWARDS SEAN HICKS SARAH MILLS MERCEDES RICH
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
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
Ag-OG62	Ore Grade Ag - Four Acid
ME-OG62	Ore Grade Elements - Four Acid
Cu-OG62	Ore Grade Cu - Four Acid
ME-MS61	48 element four acid 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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Sample Description	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
X419918	0.79	59.1	7.48	713	190	0.63	11.85	7.22	0.20	17.25	169.0	203	1.19	106.5	6.19
X419919	0.75	67.3	7.48	821	190	0.54	15.35	7.14	0.19	16.75	203	195	1.27	124.0	6.17
X419920	0.04	0.76	0.09	8.0	<10	0.12	0.21	0.07	<0.02	0.37	2.3	14	0.07	11.0	1.92
X419921	0.72	73.2	7.54	886	190	0.58	13.25	7.25	0.23	18.65	224	193	1.36	134.5	6.33
X419922	0.75	47.3	7.25	792	180	0.51	9.85	6.99	0.17	17.25	173.5	194	1.08	97.2	6.05
X419923	0.73	95.9	7.31	901	180	0.55	17.95	7.23	0.27	20.0	250	192	1.48	163.5	6.46
X419924	0.81	84.4	7.41	842	190	0.63	16.75	7.45	0.18	19.20	237	186	1.31	142.5	6.55
X419925	0.76	79.2	7.19	791	220	0.71	15.95	7.11	0.20	22.3	239	159	1.56	140.0	5.96
X419926	0.78	38.1	7.64	513	170	0.66	5.43	7.31	0.13	16.05	121.0	202	1.24	72.7	6.06
X419927	0.70	50.6	7.46	793	180	0.72	10.40	7.78	0.17	20.7	189.0	174	1.55	97.8	6.48
X419928	0.84	75.5	7.74	809	200	0.68	13.60	7.51	0.20	19.15	206	198	1.56	125.5	6.49
X419929	0.79	70.7	7.84	722	200	0.81	15.55	7.33	0.21	18.25	201	194	1.50	124.0	6.28
X419930	0.78	70.3	7.68	724	200	0.68	14.45	7.22	0.19	17.75	201	185	1.50	123.0	6.25
X419931	0.04	>100	3.99	1870	530	0.74	155.0	0.34	58.2	22.1	15.8	35	1.86	>10000	2.77
X419932	0.81	55.9	7.62	452	220	0.56	10.70	7.07	0.24	13.45	124.5	189	1.23	117.5	6.13
X419933	0.83	62.6	7.58	706	200	0.64	11.85	7.00	0.21	16.70	178.0	190	1.46	124.0	6.14
X419934	0.95	39.9	7.18	435	190	0.46	7.73	6.95	0.13	13.45	112.0	196	1.21	86.6	6.23
X419935	0.82	43.6	7.43	389	200	0.48	4.65	7.06	0.14	13.20	107.0	187	1.19	87.4	6.24
X419936	0.84	34.9	7.38	542	170	0.57	5.06	7.23	0.14	12.85	123.0	219	1.20	87.5	6.26
X419937	0.81	44.5	7.28	465	180	0.61	8.57	7.34	0.17	13.00	126.0	250	1.16	89.4	6.42
X419938	0.80	>100	7.01	628	180	0.49	18.95	7.52	0.17	14.00	183.5	199	1.27	111.5	6.64
X419939	0.80	27.5	7.63	304	190	0.64	6.94	7.44	0.13	14.75	97.9	192	1.19	75.9	6.31
X419940	0.10	0.53	0.06	2.9	<10	0.07	0.11	0.05	<0.02	0.15	1.0	5	0.05	2.6	0.35
X419941	0.84	17.50	7.68	238	190	0.38	3.15	7.39	0.14	12.25	78.0	209	1.10	68.4	6.22
X419942	0.82	93.0	7.50	402	200	0.68	7.06	7.16	0.14	13.65	130.0	190	1.15	92.6	6.32
X419943	0.74	57.1	7.38	482	200	0.63	11.80	7.21	0.28	15.50	160.5	218	1.21	101.5	6.39
X419944	0.79	64.8	7.33	550	190	0.63	10.70	7.05	0.25	17.10	183.5	206	1.30	102.5	6.15
X419945	0.81	48.4	7.35	410	200	0.63	8.42	7.11	0.24	15.20	139.5	206	1.21	95.2	6.16
X419946	0.78	95.2	7.38	672	190	0.63	15.35	7.29	0.39	19.30	287	195	1.62	149.0	6.60
X419947	0.86	45.5	7.69	481	180	0.86	9.92	7.45	0.14	18.85	128.0	204	1.36	86.6	6.40
X419948	0.79	37.4	7.65	347	180	0.64	8.11	7.18	0.10	15.95	111.0	170	1.22	66.8	5.85
X419949	0.81	37.2	7.68	554	190	0.60	7.42	7.51	0.15	19.65	129.5	168	1.36	74.8	6.03
X419950	0.81	35.6	8.00	500	190	0.75	7.07	7.53	0.14	19.20	113.5	176	1.37	73.6	6.01
X419951	0.04	>100	4.08	1950	620	0.74	163.0	0.34	60.6	25.4	16.2	35	1.92	>10000	2.83
X419952	0.84	36.3	7.74	437	210	0.62	9.39	7.14	0.23	14.05	109.0	192	1.23	95.5	6.17
X419953	0.83	41.0	7.60	598	200	0.67	11.05	6.97	0.26	18.10	141.5	194	1.26	93.7	6.01
X419954	0.90	40.8	7.54	652	180	0.60	7.44	7.40	0.17	14.95	146.0	212	1.17	86.7	6.16
X419955	0.97	32.1	7.74	559	180	0.61	7.33	7.40	0.16	14.30	122.5	207	1.19	83.1	6.11
X419956	0.94	35.9	7.52	670	170	0.53	7.65	7.31	0.19	14.95	145.5	197	1.25	96.5	6.17
X419957	0.81	59.4	7.73	606	190	0.72	11.35	7.34	0.19	18.25	158.5	191	1.41	110.5	6.30



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
X419918		14.05	0.05	1.0	0.082	1.44	7.0	40.9	4.52	1400	1.37	1.74	1.4	138.0	190	137.0
X419919		14.40	0.07	1.0	0.074	1.39	7.3	42.1	4.50	1400	1.41	1.70	1.3	149.0	210	165.0
X419920		0.39	<0.05	<0.1	<0.005	0.02	<0.5	14.0	0.04	223	0.40	0.02	0.1	7.2	<10	2.6
X419921		14.25	0.05	1.1	0.070	1.39	8.0	41.6	4.59	1400	1.46	1.68	1.4	156.5	250	163.5
X419922		13.20	0.05	1.1	0.064	1.35	6.9	36.6	4.39	1340	1.22	1.67	1.3	139.0	230	124.0
X419923		14.45	0.07	1.2	0.079	1.34	8.4	42.6	4.63	1420	1.46	1.60	1.4	170.0	250	171.5
X419924		13.65	<0.05	1.0	0.066	1.39	7.8	37.7	4.68	1500	1.30	1.67	1.5	157.5	250	157.5
X419925		14.60	0.05	1.5	0.070	1.40	10.3	42.3	4.21	1360	1.40	1.73	2.1	151.5	280	155.0
X419926		14.05	0.07	1.1	0.068	1.30	7.4	43.0	4.68	1420	1.09	1.79	1.6	125.5	200	82.4
X419927		14.70	0.06	1.3	0.085	1.34	9.5	47.6	4.49	1460	1.61	1.70	1.6	137.0	280	114.5
X419928		15.90	0.07	1.2	0.088	1.46	8.9	49.5	4.76	1480	1.72	1.77	1.5	157.5	210	168.5
X419929		14.65	0.06	1.2	0.075	1.44	8.4	46.9	4.55	1400	1.63	1.80	1.5	151.0	230	167.0
X419930		15.05	<0.05	1.2	0.075	1.44	8.1	46.5	4.52	1380	1.41	1.78	1.4	148.5	230	164.5
X419931		23.6	0.17	2.7	12.00	0.61	10.0	20.3	0.08	140	6.74	0.42	7.4	112.5	520	2010
X419932		14.40	0.06	1.0	0.094	1.49	6.1	42.6	4.59	1370	1.23	1.79	1.3	133.5	180	136.0
X419933		14.20	0.07	1.2	0.065	1.42	7.9	43.3	4.54	1340	1.27	1.70	1.8	145.0	230	144.0
X419934		12.40	0.07	1.0	0.063	1.37	6.2	36.0	4.77	1430	0.33	1.65	1.5	119.0	160	126.5
X419935		13.15	0.06	1.0	0.061	1.42	6.3	36.7	4.75	1450	0.38	1.72	1.4	122.5	160	130.5
X419936		13.20	0.07	1.1	0.064	1.43	5.9	36.4	4.85	1420	0.71	1.61	1.5	133.5	160	88.6
X419937		13.45	0.05	1.1	0.066	1.42	6.2	37.4	5.07	1480	0.82	1.65	1.5	149.0	160	109.0
X419938		13.35	0.06	1.1	0.072	1.35	6.5	37.4	5.09	1560	1.06	1.55	1.8	155.5	160	119.0
X419939		14.20	0.06	1.1	0.071	1.45	6.9	38.8	4.67	1460	0.92	1.79	1.7	120.5	170	89.1
X419940		0.17	<0.05	<0.1	<0.005	0.01	<0.5	14.2	0.03	43	0.10	0.01	<0.1	2.0	<10	1.3
X419941		13.65	0.05	1.0	0.062	1.40	5.8	33.9	4.82	1420	0.64	1.72	1.6	120.5	160	69.2
X419942		13.30	0.06	1.0	0.064	1.44	6.5	37.0	4.82	1470	0.82	1.72	1.5	129.5	160	125.5
X419943		13.60	0.05	1.1	0.065	1.37	7.2	38.2	4.81	1480	1.06	1.71	1.5	143.5	200	149.5
X419944		14.50	0.06	1.0	0.070	1.34	8.1	40.2	4.54	1420	0.95	1.69	1.5	141.5	200	152.5
X419945		13.20	0.06	1.1	0.070	1.37	7.2	36.3	4.71	1460	0.80	1.70	1.5	134.0	180	144.0
X419946		14.75	0.05	1.1	0.074	1.31	9.4	43.4	4.73	1480	1.04	1.66	1.6	187.0	260	212
X419947		13.90	0.05	1.2	0.083	1.42	8.2	42.4	4.74	1480	0.75	1.81	1.6	122.0	190	105.5
X419948		13.70	0.06	1.2	0.068	1.49	7.8	38.6	4.16	1340	1.15	1.85	1.5	108.0	200	77.4
X419949		15.40	0.06	1.2	0.076	1.46	9.4	42.1	4.18	1390	1.76	1.86	1.5	114.5	220	85.6
X419950		15.05	0.05	1.2	0.071	1.51	9.0	42.5	4.21	1370	1.73	1.90	1.6	111.0	220	87.1
X419951		24.3	0.15	2.7	12.45	0.62	11.7	20.1	0.08	143	6.94	0.43	7.7	117.5	540	2060
X419952		13.60	0.05	1.0	0.087	1.49	6.6	39.4	4.59	1390	1.25	1.78	1.4	119.0	190	131.0
X419953		14.35	0.05	1.1	0.064	1.41	8.2	42.2	4.35	1340	1.44	1.78	1.4	128.0	240	134.5
X419954		13.30	0.06	1.1	0.065	1.40	7.4	36.5	4.60	1410	1.05	1.67	1.5	128.5	200	102.5
X419955		13.85	0.06	1.1	0.062	1.44	7.0	36.6	4.56	1390	1.38	1.71	1.5	124.0	190	90.3
X419956		13.65	<0.05	1.1	0.062	1.42	7.1	39.3	4.50	1380	1.24	1.73	1.5	128.5	210	84.0
X419957		14.85	0.06	1.2	0.072	1.47	8.2	42.6	4.51	1420	1.55	1.83	1.5	138.0	210	125.5



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Project: ODM Infill Samples

CERTIFICATE OF ANALYSIS SD18310993

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		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
X419918		58.7	<0.002	0.03	18.15	34.9	<1	1.4	104.5	0.10	<0.05	1.24	0.265	0.29	0.6	188
X419919		59.5	<0.002	0.03	21.9	32.8	<1	1.1	100.5	0.11	<0.05	1.30	0.253	0.29	0.6	183
X419920		0.9	<0.002	0.01	0.33	0.3	<1	0.8	1.7	<0.05	<0.05	0.06	0.005	<0.02	<0.1	2
X419921		63.0	0.002	0.04	22.6	31.9	<1	0.9	104.5	0.10	<0.05	1.26	0.253	0.25	0.7	185
X419922		52.6	0.002	0.03	17.55	30.6	<1	0.8	99.3	0.10	<0.05	1.21	0.252	0.26	0.6	178
X419923		63.3	<0.002	0.04	21.3	33.2	<1	1.1	105.0	0.12	<0.05	1.45	0.263	0.28	0.7	189
X419924		57.5	<0.002	0.04	17.90	31.9	<1	0.9	101.0	0.11	<0.05	1.35	0.284	0.27	0.7	198
X419925		61.4	<0.002	0.05	16.90	31.4	1	0.8	135.5	0.14	<0.05	1.89	0.269	0.25	0.7	175
X419926		59.2	<0.002	0.01	10.90	36.1	<1	0.6	112.5	0.10	<0.05	1.19	0.266	0.24	0.5	185
X419927		60.8	<0.002	0.02	15.85	34.5	<1	0.8	110.0	0.11	<0.05	1.38	0.280	0.26	0.7	192
X419928		67.6	<0.002	0.03	23.4	40.1	<1	0.8	120.0	0.10	<0.05	1.34	0.267	0.27	0.6	194
X419929		67.4	0.003	0.03	22.0	34.2	<1	0.8	120.5	0.09	<0.05	1.30	0.254	0.28	0.7	184
X419930		63.1	0.002	0.03	21.9	33.7	<1	0.8	117.0	0.09	<0.05	1.31	0.248	0.28	0.6	180
X419931		24.3	<0.002	3.72	212	4.2	55	12.5	452	0.53	55.2	4.68	0.196	3.94	2.6	32
X419932		49.1	<0.002	0.03	17.05	37.0	<1	0.7	114.0	0.09	0.08	1.00	0.248	0.27	0.5	185
X419933		62.5	0.002	0.05	19.50	33.2	<1	0.7	115.5	0.11	<0.05	1.31	0.247	0.26	0.6	178
X419934		56.0	<0.002	0.01	11.95	37.2	<1	0.5	104.5	0.10	<0.05	1.09	0.283	0.26	0.4	196
X419935		56.6	<0.002	0.01	14.45	37.2	<1	0.5	113.5	0.09	0.05	1.05	0.276	0.26	0.4	194
X419936		61.7	<0.002	0.02	14.15	37.7	<1	0.6	105.0	0.10	0.05	1.08	0.293	0.27	0.5	201
X419937		59.0	<0.002	0.02	14.25	39.7	<1	0.6	110.0	0.10	<0.05	1.09	0.295	0.24	0.5	206
X419938		63.1	0.002	0.03	20.2	42.9	<1	0.7	105.5	0.12	<0.05	1.10	0.330	0.25	0.4	220
X419939		62.1	0.002	0.02	10.50	38.5	<1	0.6	118.5	0.10	<0.05	1.18	0.301	0.25	0.5	202
X419940		0.5	<0.002	<0.01	0.14	0.2	<1	<0.2	1.1	<0.05	<0.05	0.02	<0.005	<0.02	<0.1	1
X419941		51.2	<0.002	0.01	8.63	38.4	<1	0.6	113.0	0.10	0.05	1.05	0.296	0.26	0.5	199
X419942		64.3	<0.002	0.02	15.75	39.1	<1	0.6	116.5	0.09	<0.05	1.04	0.281	0.25	0.4	200
X419943		61.9	<0.002	0.04	17.15	37.0	<1	0.6	109.5	0.11	<0.05	1.15	0.297	0.25	0.5	202
X419944		61.8	<0.002	0.04	16.70	36.4	<1	0.6	110.0	0.09	<0.05	1.15	0.271	0.26	0.6	191
X419945		63.1	<0.002	0.04	15.35	36.3	<1	0.6	112.0	0.10	<0.05	1.13	0.286	0.29	0.5	194
X419946		62.7	<0.002	0.04	20.5	36.2	<1	0.8	115.5	0.10	<0.05	1.38	0.274	0.26	0.7	195
X419947		65.9	<0.002	0.01	11.85	39.5	<1	0.6	111.5	0.11	<0.05	1.21	0.305	0.26	0.5	202
X419948		61.8	<0.002	0.02	9.90	32.6	<1	0.5	113.0	0.10	<0.05	1.18	0.268	0.26	0.6	181
X419949		64.2	<0.002	0.03	12.95	35.3	<1	0.6	120.5	0.11	<0.05	1.26	0.268	0.27	0.6	181
X419950		68.9	<0.002	0.03	12.45	34.3	<1	0.6	121.0	0.10	<0.05	1.34	0.264	0.31	0.7	184
X419951		25.0	<0.002	3.86	221	4.3	56	13.0	483	0.53	56.3	5.13	0.204	4.08	2.7	33
X419952		55.4	<0.002	0.03	14.80	34.2	<1	0.5	113.5	0.10	0.12	1.05	0.266	0.27	0.5	188
X419953		63.5	<0.002	0.04	16.60	33.4	<1	0.6	116.5	0.09	<0.05	1.29	0.250	0.25	0.6	178
X419954		58.5	<0.002	0.03	12.95	33.6	<1	0.6	109.0	0.11	<0.05	1.23	0.293	0.25	0.6	193
X419955		64.2	0.002	0.03	11.00	34.6	<1	0.6	111.5	0.10	<0.05	1.16	0.279	0.26	0.5	190
X419956		57.9	<0.002	0.04	10.35	33.3	<1	0.6	114.5	0.10	<0.05	1.19	0.287	0.27	0.6	189
X419957		63.0	<0.002	0.04	17.25	34.7	<1	0.6	112.0	0.10	<0.05	1.18	0.261	0.24	0.6	188



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Cu-OG62	PUL-QC
		W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Ag ppm 1	Cu % 0.001	Pass75um % 0.01
X419918		0.3	15.7	118	36.6			97.3
X419919		0.2	16.0	123	35.1			
X419920		0.1	0.3	8	0.9			
X419921		0.3	15.8	134	37.1			
X419922		0.2	14.7	113	35.1			
X419923		0.3	17.3	143	38.0			
X419924		0.3	16.2	128	38.0			
X419925		0.3	17.1	123	50.1			
X419926		0.3	15.9	92	38.1			
X419927		0.3	18.9	113	47.6			
X419928		0.4	18.6	126	45.5			
X419929		0.2	16.6	126	41.7			
X419930		0.2	16.7	125	40.4			
X419931		14.5	5.9	9130	91.1	288	0.998	
X419932		0.3	14.4	124	34.5			
X419933		0.2	15.6	123	42.0			
X419934		0.2	14.0	108	33.6			
X419935		0.2	14.1	110	31.7			
X419936		0.2	14.1	102	36.0			
X419937		0.2	14.2	110	35.1			
X419938		0.3	15.8	109	36.2	295		
X419939		0.2	15.9	97	37.7			
X419940		<0.1	0.2	2	<0.5			
X419941		0.2	13.7	98	36.1			
X419942		0.2	14.4	111	31.8			
X419943		0.3	15.8	137	37.1			
X419944		0.3	16.4	133	37.9			
X419945		0.2	15.3	131	32.9			
X419946		0.3	17.4	172	42.0			
X419947		0.2	17.5	104	37.4			
X419948		0.2	16.1	90	41.3			
X419949		0.3	19.2	95	41.2			
X419950		0.2	17.3	93	44.0			
X419951		14.6	6.1	9350	90.1	286	0.989	
X419952		0.2	14.6	123	37.4			
X419953		0.2	15.7	131	39.5			
X419954		0.2	15.3	108	40.1			
X419955		0.2	14.7	107	36.5			
X419956		0.2	15.4	108	38.8			
X419957		0.2	17.0	117	41.1			94.6



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Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Recvd Wt. kg	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 %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
X419958		0.90	58.3	7.73	906	180	0.67	13.40	7.60	0.26	19.85	235	237	1.85	162.0	7.03
X419959		0.80	82.7	7.13	801	190	0.67	18.30	6.92	0.46	20.0	244	180	1.54	167.5	6.31
X419960		0.10	0.32	0.04	2.5	<10	0.07	0.10	0.03	<0.02	0.10	0.8	3	0.06	2.7	0.24
X419961		0.90	49.4	7.40	628	180	0.58	11.65	7.23	0.32	19.50	180.5	199	1.44	141.0	6.40



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CERTIFICATE OF ANALYSIS SD18310993

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
Units		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
LOD		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
X419958		15.10	0.05	1.3	0.077	1.33	9.3	48.4	5.24	1500	2.11	1.60	1.5	202	300	140.0
X419959		13.70	0.05	1.2	0.067	1.30	9.5	39.1	4.36	1400	1.62	1.59	1.6	176.5	290	160.5
X419960		0.14	<0.05	<0.1	<0.005	0.01	<0.5	13.8	0.02	29	0.13	0.01	<0.1	1.6	<10	1.2
X419961		16.25	0.09	1.3	0.092	1.31	9.0	43.1	4.54	1440	2.29	1.66	1.9	162.0	260	129.5



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CERTIFICATE OF ANALYSIS SD18310993

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
X419958		62.6	<0.002	0.04	14.85	33.0	1	0.9	109.5	0.11	0.05	1.45	0.277	0.25	0.7	198
X419959		59.6	<0.002	0.08	17.10	31.0	<1	0.9	110.5	0.10	<0.05	1.50	0.266	0.24	0.7	186
X419960		0.4	<0.002	<0.01	0.14	0.1	<1	<0.2	0.9	<0.05	<0.05	0.01	<0.005	<0.02	<0.1	1
X419961		64.1	0.003	0.08	15.15	35.5	<1	0.9	112.5	0.15	<0.05	1.58	0.284	0.28	0.8	186



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 Account: BMRPLLBW

Project: ODM Infill Samples

CERTIFICATE OF ANALYSIS SD18310993

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Ag-OG62 Ag ppm 1	Cu-OG62 Cu % 0.001	PUL-QC Pass75um % 0.01
X419958		0.3	16.9	149	44.0			
X419959		0.3	16.7	178	42.6			
X419960		<0.1	0.1	2	<0.5			
X419961		0.4	17.4	135	45.9			



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 Finalized Date: 21-OCT-2019
 This copy reported on
 6-NOV-2019
 Account: BMRPLLBW

CERTIFICATE SD19232567

Project: Gowganda

This report is for 227 Tailings samples submitted to our lab in Sudbury, ON, Canada on 17-SEP-2019.

The following have access to data associated with this certificate:

PETER DOYLE SEAN HICKS ISAAC RIDDLE	JON EDWARDS IAN PRINGLE	MIKE HENDRICKSON MERCEDES RICH
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode
CRU-QC	Crushing QC Test
DRY-21	High Temperature Drying
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES	
ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS
Ag-OG62	Ore Grade Ag - Four Acid
ME-OG62	Ore Grade Elements - Four Acid
Cu-OG62	Ore Grade Cu - Four Acid
	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: 
 Saa Traxler, General Manager, North Vancouver



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CERTIFICATE OF ANALYSIS SD19232567

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Units		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
LOD		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
2251		1.89	35.8	7.40	478	200	0.44	7.11	7.33	0.13	17.15	77.9	166	0.96	67.6	5.69
2252		2.02	46.9	7.64	367	200	0.48	5.97	7.23	0.13	16.75	70.1	155	1.01	67.6	5.65
2253		2.40	45.6	6.67	659	260	0.80	5.94	6.12	0.38	29.7	143.5	130	1.43	122.0	5.38
2254		2.27	72.9	7.08	1140	170	0.76	11.95	7.27	0.28	25.1	250	154	1.61	190.5	6.72
2255		2.18	41.3	7.17	643	180	0.63	5.65	6.91	0.23	23.8	135.5	122	1.32	101.0	6.43
2256		2.19	35.2	7.30	535	180	0.66	4.74	6.93	0.16	20.5	101.5	119	1.17	79.5	6.30
2257		1.97	47.4	6.79	752	210	0.69	6.39	6.21	0.55	27.7	159.0	114	1.36	126.5	5.85
2258		1.76	46.8	7.35	715	180	0.61	4.01	7.23	0.20	20.7	152.5	145	1.22	80.0	6.33
2259		1.51	37.8	7.47	403	170	0.59	2.74	7.20	0.17	17.25	102.5	164	1.14	73.9	6.11
2260		1.61	38.5	7.31	399	170	0.63	2.65	7.09	0.16	16.45	102.0	157	1.13	70.6	6.01
2261		1.87	35.9	7.61	451	170	0.62	2.82	7.00	0.15	17.65	103.5	132	1.06	63.9	5.67
2262		2.22	23.1	7.36	446	180	0.69	4.23	6.83	0.16	16.85	108.0	145	1.44	69.0	5.85
2263		1.92	27.0	7.47	506	170	0.80	4.84	6.91	0.16	17.90	111.5	128	1.51	72.8	6.03
2264		1.84	34.5	7.29	435	180	0.61	2.66	7.17	0.18	15.75	106.5	171	1.21	71.9	6.06
2265		2.14	43.1	7.25	542	170	0.68	4.77	7.48	0.19	18.70	131.0	183	1.28	81.7	6.33
2266		1.74	27.3	6.95	277	300	0.72	7.31	5.96	0.14	27.4	84.6	141	1.35	60.5	4.49
2267		2.40	47.4	7.65	433	190	0.63	11.35	6.97	0.14	16.90	128.0	176	1.23	83.8	5.88
2268		2.59	68.2	7.34	608	190	0.60	13.95	6.85	0.21	18.20	169.5	180	1.26	108.0	6.14
2269		1.80	71.7	7.17	943	170	0.58	15.35	6.91	0.24	17.90	234	207	1.51	143.0	6.35
2270		1.61	82.7	7.19	966	170	0.56	17.80	6.82	0.25	18.60	251	194	1.56	158.5	6.33
2271		0.07	>100	4.39	686	1020	0.74	56.8	0.63	27.1	32.0	10.1	35	2.85	5090	2.13
2272		1.09	0.43	0.08	6.5	30	0.05	0.18	33.8	0.06	1.03	1.7	3	0.05	9.7	0.12
2273		1.99	16.35	7.85	391	180	0.63	2.87	6.93	0.13	14.45	84.8	249	1.19	63.7	5.84
2274		2.08	43.9	7.78	444	190	0.67	7.09	7.17	0.14	16.65	125.0	186	1.26	80.5	5.92
2275		2.43	43.7	7.62	417	190	0.66	6.29	6.75	0.15	17.20	116.0	171	1.21	76.9	5.82
2276		2.04	39.6	7.45	409	180	0.61	6.63	6.88	0.14	16.40	103.0	180	1.26	80.9	6.06
2277		2.56	52.8	6.83	496	300	0.76	9.06	5.72	0.27	27.7	134.0	149	1.38	93.6	4.71
2278		1.71	74.7	7.40	822	180	0.64	14.35	7.17	0.19	18.70	214	186	1.55	141.5	6.42
2279		1.44	58.8	7.57	559	190	0.65	8.42	6.87	0.23	18.15	150.5	183	1.34	98.0	5.84
2280		1.48	59.3	7.60	541	190	0.67	11.25	6.96	0.18	18.80	152.5	175	1.36	96.4	5.99
2281		2.00	67.7	7.35	805	180	0.67	16.35	6.91	0.27	19.10	201	182	1.40	112.5	5.90
2282		2.25	61.9	7.39	710	180	0.60	13.15	6.85	0.20	17.45	173.5	186	1.39	102.0	5.92
2283		1.85	49.2	7.56	529	190	0.66	10.50	6.92	0.16	16.35	127.5	200	1.31	86.4	6.05
2284		2.02	69.9	7.63	780	190	0.62	13.10	7.02	0.20	19.00	195.5	182	1.43	112.5	6.19
2285		2.39	63.0	7.50	784	190	0.52	12.85	7.18	0.20	16.85	174.0	207	1.31	98.6	6.36
2286		2.21	53.0	7.03	523	180	0.67	7.01	7.02	0.15	15.90	118.0	191	1.08	85.9	6.01
2287		2.07	>100	6.96	802	180	0.66	16.85	7.24	0.16	16.50	194.0	201	1.25	108.0	6.38
2288		1.76	>100	6.83	1070	190	0.66	22.0	6.93	0.42	21.6	339	186	1.52	175.0	6.69
2289		1.23	88.5	6.63	913	170	0.63	17.60	6.90	0.33	19.40	267	186	1.35	147.5	6.11
2290		1.45	98.6	6.69	1035	170	0.55	19.25	6.97	0.40	19.40	312	194	1.48	167.5	6.27



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Project: Gowganda

CERTIFICATE OF ANALYSIS SD19232567

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
2251		12.40	<0.05	1.1	0.072	1.52	7.3	33.6	4.28	1390	1.31	1.60	1.5	97.7	150	102.0
2252		13.05	<0.05	1.1	0.071	1.55	7.3	34.8	4.23	1340	1.11	1.67	1.4	96.1	160	104.5
2253		14.10	<0.05	2.2	0.071	1.40	14.1	33.2	3.39	1100	2.25	1.87	3.4	113.0	380	100.0
2254		14.20	<0.05	1.6	0.096	1.27	11.2	45.0	4.17	1400	2.75	1.77	2.2	150.5	290	158.5
2255		14.50	<0.05	1.5	0.078	1.31	10.7	38.6	3.86	1370	2.33	1.81	2.2	103.0	290	109.0
2256		14.05	<0.05	1.3	0.081	1.39	9.2	36.8	4.04	1420	1.59	1.80	2.0	95.9	200	90.9
2257		13.95	<0.05	1.7	0.077	1.31	13.1	38.3	3.54	1240	2.55	1.72	2.4	125.5	340	111.0
2258		13.70	<0.05	1.2	0.082	1.31	9.2	40.1	4.37	1460	1.82	1.80	1.7	121.0	210	100.0
2259		13.10	<0.05	1.1	0.073	1.33	7.7	38.1	4.63	1460	1.49	1.78	1.7	121.5	170	94.6
2260		12.85	<0.05	1.1	0.073	1.30	7.0	36.7	4.57	1440	1.52	1.75	1.7	119.5	170	91.3
2261		13.45	<0.05	1.1	0.072	1.32	7.7	36.2	4.19	1360	1.50	1.86	1.6	108.0	170	79.7
2262		13.10	<0.05	1.1	0.075	1.32	7.4	41.3	4.42	1380	2.24	1.83	1.5	118.5	150	111.5
2263		13.80	<0.05	1.2	0.082	1.36	8.0	44.1	4.43	1410	2.35	1.89	1.8	116.5	160	105.5
2264		13.05	<0.05	1.2	0.076	1.24	6.8	37.7	4.86	1460	1.53	1.78	1.8	126.5	160	94.9
2265		13.45	<0.05	1.2	0.082	1.29	7.9	38.6	4.99	1540	0.94	1.67	1.9	135.5	140	104.5
2266		13.50	<0.05	2.0	0.056	1.59	12.9	29.7	3.49	997	0.84	1.89	3.5	92.1	330	80.0
2267		14.05	<0.05	1.2	0.078	1.49	7.5	37.8	4.29	1350	0.94	1.80	1.5	124.0	190	114.0
2268		13.65	<0.05	1.2	0.073	1.40	8.3	37.9	4.43	1390	0.95	1.73	1.7	136.0	200	143.0
2269		13.75	<0.05	1.3	0.078	1.33	8.0	39.6	4.55	1370	1.55	1.61	1.7	170.0	230	142.0
2270		13.85	<0.05	1.2	0.076	1.31	8.3	40.6	4.52	1360	1.43	1.58	1.6	172.5	240	162.0
2271		20.7	0.11	2.9	5.70	0.68	15.6	19.0	0.19	229	4.77	0.44	7.8	59.8	570	1020
2272		0.24	<0.05	<0.1	0.012	0.01	1.2	1.1	1.77	114	0.16	0.02	0.1	0.7	80	2.8
2273		13.85	<0.05	1.0	0.066	1.51	6.4	39.6	4.62	1280	0.95	1.75	1.5	133.5	170	66.5
2274		14.15	<0.05	1.2	0.081	1.52	7.5	40.3	4.47	1340	1.01	1.81	1.5	123.5	170	110.5
2275		14.15	<0.05	1.1	0.077	1.49	7.7	37.9	4.28	1310	0.80	1.83	1.5	115.5	170	112.5
2276		13.40	<0.05	1.2	0.072	1.49	7.2	38.6	4.50	1380	0.74	1.74	1.6	119.5	170	110.0
2277		13.55	0.05	2.2	0.061	1.56	12.7	30.7	3.38	1020	1.23	1.87	3.3	113.5	340	96.4
2278		14.15	<0.05	1.2	0.079	1.40	8.5	44.3	4.57	1400	1.33	1.65	1.6	156.5	230	138.0
2279		13.90	<0.05	1.1	0.078	1.49	8.2	41.3	4.23	1300	1.17	1.77	1.6	127.0	200	120.0
2280		14.50	<0.05	1.1	0.080	1.52	8.3	43.7	4.30	1330	1.06	1.79	1.6	129.5	200	123.0
2281		13.40	<0.05	1.2	0.079	1.40	8.7	42.8	4.21	1320	1.41	1.72	1.6	146.0	220	149.0
2282		13.75	<0.05	1.2	0.076	1.42	7.7	42.5	4.30	1330	1.46	1.71	1.5	136.5	190	139.0
2283		14.25	<0.05	1.1	0.075	1.51	7.1	42.2	4.60	1360	1.06	1.74	1.6	129.5	160	132.0
2284		13.80	<0.05	1.2	0.080	1.45	8.5	43.9	4.39	1360	1.16	1.78	1.5	140.5	220	157.5
2285		13.50	<0.05	1.2	0.082	1.46	7.3	42.1	4.78	1460	0.75	1.73	1.7	140.5	180	151.5
2286		14.25	0.08	1.0	0.071	1.40	6.5	44.8	4.53	1400	0.74	1.67	1.4	123.5	170	110.5
2287		14.45	0.09	1.0	0.079	1.42	6.7	46.0	4.82	1480	0.82	1.60	1.6	163.5	160	134.0
2288		15.75	0.09	1.2	0.080	1.27	9.2	50.9	4.40	1460	1.26	1.64	1.7	201	330	241
2289		14.10	0.07	1.1	0.075	1.25	8.4	45.2	4.29	1390	1.25	1.52	1.4	171.0	260	187.5
2290		14.55	0.07	1.1	0.073	1.25	8.4	48.1	4.38	1420	1.66	1.52	1.4	192.5	280	228



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CERTIFICATE OF ANALYSIS SD19232567

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
2251		66.2	<0.002	0.02	12.40	35.8	<1	0.5	120.5	0.11	<0.05	1.03	0.270	0.31	0.5	180
2252		69.5	<0.002	0.02	13.00	36.1	<1	0.5	127.0	0.11	<0.05	1.03	0.251	0.34	0.4	176
2253		55.6	0.002	0.16	13.70	26.7	<1	1.0	170.5	0.25	<0.05	2.66	0.327	0.29	1.0	152
2254		56.3	<0.002	0.11	23.2	33.3	<1	1.0	105.5	0.16	<0.05	1.85	0.351	0.27	0.9	193
2255		58.0	<0.002	0.06	14.25	33.3	1	0.8	111.5	0.16	<0.05	1.82	0.341	0.26	0.8	185
2256		63.0	<0.002	0.02	13.20	38.1	<1	0.6	117.5	0.14	<0.05	1.36	0.316	0.28	0.6	195
2257		55.2	0.002	0.10	15.85	30.8	1	0.8	145.0	0.17	<0.05	2.20	0.291	0.27	0.8	173
2258		58.8	<0.002	0.03	17.55	36.6	1	0.7	113.0	0.12	<0.05	1.26	0.294	0.24	0.6	193
2259		59.4	<0.002	0.02	13.25	39.1	<1	0.6	112.5	0.12	<0.05	1.11	0.300	0.25	0.5	193
2260		58.3	<0.002	0.02	13.00	38.4	1	0.6	109.5	0.13	<0.05	1.12	0.293	0.26	0.5	192
2261		59.6	<0.002	0.02	12.40	35.4	<1	0.6	116.5	0.12	<0.05	1.15	0.268	0.27	0.5	175
2262		58.6	0.002	0.02	11.30	37.2	<1	0.6	108.5	0.12	<0.05	1.09	0.279	0.27	0.5	182
2263		63.2	<0.002	0.02	10.45	39.1	1	0.6	110.5	0.13	<0.05	1.18	0.291	0.27	0.5	189
2264		56.1	<0.002	0.02	14.10	40.0	<1	0.6	105.5	0.13	<0.05	1.22	0.321	0.25	0.6	201
2265		59.2	<0.002	0.01	13.30	42.8	<1	0.6	106.5	0.13	<0.05	1.09	0.329	0.25	0.5	206
2266		62.6	<0.002	0.04	9.31	25.7	<1	0.7	191.5	0.23	<0.05	2.76	0.252	0.31	0.8	133
2267		66.4	<0.002	0.02	14.50	35.7	<1	0.6	117.0	0.11	<0.05	1.15	0.257	0.30	0.5	178
2268		64.1	<0.002	0.03	18.85	37.8	<1	0.7	113.0	0.13	<0.05	1.20	0.291	0.27	0.5	189
2269		57.5	<0.002	0.05	19.95	34.5	<1	0.8	107.5	0.12	<0.05	1.37	0.277	0.26	0.6	186
2270		61.2	<0.002	0.04	20.7	34.7	<1	0.9	106.5	0.12	<0.05	1.31	0.270	0.28	0.6	184
2271		27.2	<0.002	2.15	86.5	4.3	36	6.0	477	0.63	42.4	6.71	0.219	1.74	2.5	33
2272		0.4	<0.002	0.01	0.31	0.3	1	<0.2	82.9	<0.05	0.07	0.07	0.005	<0.02	0.1	2
2273		67.9	<0.002	0.02	8.16	36.0	<1	0.9	115.5	0.12	<0.05	1.06	0.263	0.28	0.5	175
2274		71.0	<0.002	0.02	16.20	38.0	1	0.6	118.5	0.11	<0.05	1.18	0.259	0.29	0.5	183
2275		65.2	<0.002	0.02	18.15	36.2	<1	0.5	117.0	0.11	<0.05	1.16	0.253	0.30	0.5	177
2276		66.0	<0.002	0.01	16.35	38.4	<1	0.6	113.0	0.12	<0.05	1.20	0.277	0.28	0.5	187
2277		59.9	<0.002	0.14	12.50	26.3	<1	0.8	197.5	0.23	<0.05	2.57	0.258	0.30	0.9	137
2278		61.7	<0.002	0.03	18.65	35.4	<1	0.9	109.0	0.11	<0.05	1.23	0.267	0.29	0.6	186
2279		67.0	<0.002	0.03	19.30	34.9	1	0.6	115.5	0.11	<0.05	1.20	0.249	0.29	0.6	175
2280		67.6	<0.002	0.02	19.15	37.6	<1	0.6	116.5	0.13	<0.05	1.20	0.251	0.32	0.5	177
2281		63.0	<0.002	0.04	23.4	33.7	1	0.6	108.5	0.11	<0.05	1.25	0.254	0.28	0.6	172
2282		65.5	<0.002	0.03	22.4	36.4	<1	0.6	110.0	0.11	<0.05	1.19	0.254	0.29	0.6	175
2283		68.9	<0.002	0.02	19.95	40.1	<1	0.6	115.5	0.11	<0.05	1.12	0.265	0.30	0.5	184
2284		64.2	<0.002	0.03	24.7	35.2	<1	0.7	110.5	0.12	<0.05	1.23	0.261	0.27	0.6	180
2285		64.8	<0.002	0.02	22.0	40.0	<1	0.6	113.0	0.12	<0.05	1.17	0.297	0.26	0.5	196
2286		56.0	<0.002	0.02	15.40	35.9	1	0.6	106.5	0.12	<0.05	1.05	0.279	0.26	0.5	187
2287		61.9	<0.002	0.02	19.85	40.7	<1	0.6	102.0	0.13	<0.05	1.08	0.316	0.23	0.4	202
2288		48.7	0.002	0.06	22.5	33.3	1	0.9	112.0	0.13	<0.05	1.46	0.292	0.23	0.7	189
2289		52.7	<0.002	0.05	19.75	33.8	<1	0.8	98.9	0.11	<0.05	1.44	0.264	0.22	0.7	177
2290		51.7	<0.002	0.07	23.0	32.6	1	0.8	98.0	0.11	<0.05	1.31	0.261	0.22	0.7	181



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Cu-OG62	CRU-QC	PUL-QC
		W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Ag ppm 1	Cu % 0.001	Pass2mm % 0.01	Pass75um % 0.01
2251		0.2	15.5	95	40.1			98.8	87.2
2252		0.2	15.5	93	37.2				90.4
2253		0.3	17.5	128	79.6				
2254		0.3	20.1	132	54.3				
2255		0.4	18.7	116	55.0				
2256		0.3	18.2	101	47.7				
2257		0.4	18.7	181	64.7				
2258		0.3	18.5	117	40.5				
2259		0.3	16.6	109	36.8				
2260		0.3	16.5	107	37.6				
2261		0.3	16.7	97	39.2				
2262		0.3	16.8	105	38.0				
2263		0.3	17.9	108	41.3				
2264		0.3	16.7	113	39.6				
2265		0.5	18.9	112	38.7				
2266		0.3	14.5	85	78.3				
2267		0.3	16.4	105	41.3				
2268		0.3	16.7	123	40.5				
2269		0.3	16.8	130	45.2				
2270		0.3	17.2	135	43.1				
2271		13.2	6.7	4150	92.9	115			
2272		<0.1	2.1	10	1.7				
2273		0.4	13.9	91	36.9				
2274		0.3	16.1	99	42.9				
2275		0.3	16.4	99	39.6				
2276		0.3	16.4	99	41.3				
2277		0.4	15.3	99	79.2				
2278		0.3	17.4	122	41.5				
2279		0.3	16.8	114	40.2				
2280		0.3	17.3	107	40.5				
2281		0.3	16.8	130	41.6				
2282		0.3	16.7	111	41.2				
2283		0.3	16.7	107	40.6				
2284		0.3	16.9	119	41.1				
2285		0.3	17.2	122	42.1				
2286		0.2	15.0	103	37.8				
2287		0.3	16.2	109	35.9	212			
2288		0.3	17.7	185	47.4	108			
2289		0.3	16.8	158	40.4			96.6	
2290		0.3	16.9	183	41.5			96.0	98.3



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CERTIFICATE OF ANALYSIS SD19232567

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Units		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
LOD		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
2291		0.07	>100	4.21	666	90	0.78	58.0	0.62	25.2	31.7	9.5	31	2.46	4940	2.09
2292		1.18	0.28	0.06	2.0	20	0.05	0.12	34.0	0.05	0.93	1.2	5	<0.05	9.5	0.10
2293		2.25	65.8	6.84	726	170	0.62	14.20	7.22	0.20	18.25	197.0	182	1.23	118.5	6.12
2294		2.42	27.3	7.22	458	160	0.68	2.91	7.41	0.11	15.65	108.0	182	1.16	70.1	6.19
2295		2.03	29.5	7.51	485	170	0.71	3.88	7.48	0.11	16.45	116.5	202	1.22	77.0	6.38
2296		2.21	78.9	7.09	654	170	0.60	7.92	7.08	0.16	16.15	152.5	209	1.10	90.3	6.15
2297		2.03	17.10	7.36	489	170	0.64	4.24	7.30	0.14	15.75	111.0	194	1.19	72.5	6.19
2298		2.36	23.7	7.45	415	180	0.61	2.81	7.13	0.14	15.35	95.0	181	1.11	67.5	6.04
2299		1.46	19.65	7.27	407	160	0.63	3.48	7.22	0.11	14.30	95.0	195	1.06	65.4	6.01
2300		1.40	18.95	7.35	390	160	0.68	3.86	7.27	0.14	15.30	94.6	194	1.11	68.8	6.05
2301		2.04	29.9	7.24	453	150	0.71	4.98	7.19	0.10	16.35	111.5	182	1.08	75.2	5.98
2302		2.13	53.6	7.14	499	160	0.73	7.56	7.34	0.14	19.45	129.0	182	1.17	89.0	6.07
2303		2.60	43.1	6.58	337	250	0.69	5.37	5.82	0.38	21.6	120.5	187	1.04	97.9	5.08
2304		2.41	59.9	7.63	392	200	0.61	7.16	7.57	0.17	16.55	143.0	209	1.13	106.5	6.57
2305		2.08	61.3	7.22	466	190	0.68	8.58	7.35	0.20	15.65	157.5	211	1.09	102.5	6.32
2306		2.15	57.3	6.93	388	180	0.61	9.50	7.25	0.18	15.50	134.0	202	1.11	106.0	6.49
2307		2.15	58.4	6.72	397	180	0.73	11.15	7.40	0.21	16.05	129.5	210	1.09	115.5	6.74
2308		2.91	51.1	7.02	434	190	0.60	10.45	7.35	0.17	15.40	131.5	196	1.12	106.0	6.58
2309		2.39	56.1	6.58	549	170	0.63	12.50	7.31	0.19	16.15	151.0	220	1.13	107.5	6.60
2310		1.21	50.0	6.65	533	170	0.62	12.65	7.38	0.18	15.90	148.0	220	1.13	105.5	6.64
2311		0.07	>100	4.30	693	80	0.80	58.9	0.63	25.9	32.8	9.7	33	2.66	5080	2.15
2312		1.18	0.31	0.06	3.2	20	<0.05	0.14	34.1	0.05	0.90	1.0	5	0.05	11.6	0.13
2313		1.85	>100	7.43	647	180	0.72	11.90	7.55	0.19	17.10	154.0	214	1.32	101.0	6.70
2314		2.08	39.7	7.22	673	160	0.64	6.44	7.67	0.16	16.00	159.0	278	1.15	85.4	6.51
2315		1.99	87.2	6.94	548	160	0.62	5.89	7.17	0.14	14.60	131.0	255	1.13	86.0	6.16
2316		2.34	34.1	7.34	775	170	0.68	5.50	7.49	0.18	16.85	184.5	274	1.28	95.9	6.77
2317		2.36	42.5	7.14	469	180	0.67	9.89	7.08	0.16	17.30	127.5	212	1.16	84.3	6.09
2318		2.34	60.2	7.16	696	170	0.70	15.15	7.33	0.15	17.95	182.5	162	1.25	130.0	6.04
2319		1.34	32.2	7.29	620	180	0.67	5.43	7.18	0.12	17.30	115.0	172	1.13	74.0	5.89
2320		1.21	35.1	7.37	644	180	0.70	6.26	7.29	0.16	18.45	118.0	173	1.13	77.7	6.04
2321		2.17	32.8	7.28	654	180	0.66	5.05	7.15	0.15	17.95	117.0	169	1.14	65.7	5.85
2322		2.21	28.3	7.31	735	170	0.72	4.63	7.00	0.12	17.75	114.5	165	1.17	70.2	6.13
2323		2.12	32.2	7.22	751	160	0.84	5.88	6.96	0.10	18.45	143.5	164	1.06	67.2	6.22
2324		2.27	42.4	7.24	648	150	0.71	6.12	7.10	0.13	16.45	141.0	187	1.20	78.5	5.85
2325		1.87	38.2	7.50	338	160	0.67	2.48	7.11	0.12	14.75	117.5	215	1.08	62.5	5.67
2326		2.09	49.1	7.73	589	160	0.72	3.47	7.02	0.12	19.15	122.5	158	1.20	72.5	5.94
2327		2.32	76.6	7.48	799	150	0.78	4.12	6.80	0.10	18.70	154.5	151	1.16	65.2	5.55
2328		1.54	58.5	7.69	571	160	0.78	3.13	7.40	0.13	17.05	141.5	187	1.21	77.8	6.21
2329		1.59	31.7	7.50	472	150	0.74	2.98	7.44	0.14	16.75	132.5	197	1.26	73.7	6.02
2330		1.36	39.7	7.52	482	150	0.66	3.07	7.44	0.14	16.95	132.5	200	1.21	70.2	6.01



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		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
2291		22.1	0.14	2.4	5.30	0.65	15.8	21.2	0.18	223	4.41	0.42	6.8	57.3	550	992
2292		0.19	0.08	<0.1	0.005	0.01	1.1	1.0	1.15	102	0.15	0.02	0.1	2.2	50	2.0
2293		14.55	0.07	1.1	0.069	1.36	7.6	45.0	4.39	1420	1.25	1.62	1.5	143.5	200	131.5
2294		15.10	0.07	1.2	0.073	1.48	6.9	47.0	4.32	1380	1.09	1.71	1.6	117.0	210	69.8
2295		15.85	0.08	1.2	0.074	1.56	7.2	48.9	4.60	1410	1.04	1.73	1.6	128.5	220	71.7
2296		14.45	0.08	1.0	0.068	1.39	6.9	44.6	4.64	1400	1.01	1.62	1.5	138.5	180	107.5
2297		15.45	0.08	1.1	0.064	1.39	6.6	47.2	4.53	1360	1.24	1.70	1.5	127.0	210	73.3
2298		15.40	0.06	1.0	0.069	1.44	6.6	44.4	4.47	1360	0.83	1.68	1.6	120.5	190	74.0
2299		15.05	0.09	1.0	0.069	1.43	6.0	43.1	4.50	1340	0.89	1.67	1.5	121.5	180	57.7
2300		15.40	0.08	1.0	0.069	1.45	6.4	46.7	4.56	1360	0.92	1.69	1.6	125.0	180	58.6
2301		15.25	0.09	1.1	0.067	1.41	7.0	45.0	4.37	1360	0.82	1.72	1.5	121.5	180	67.0
2302		15.50	0.08	1.1	0.080	1.38	8.4	47.9	4.39	1410	1.00	1.83	1.6	126.0	180	88.3
2303		14.05	0.08	1.3	0.053	1.39	10.0	35.8	3.73	1160	1.09	1.75	2.0	138.5	240	116.5
2304		16.15	0.09	1.0	0.062	1.50	6.9	46.3	5.04	1540	0.93	1.79	1.5	149.0	160	148.0
2305		15.05	0.10	1.0	0.077	1.42	6.4	44.2	4.79	1480	1.06	1.73	1.4	144.5	160	142.0
2306		14.50	0.08	1.0	0.070	1.37	6.5	44.2	5.02	1520	0.73	1.59	1.5	143.0	140	146.0
2307		14.75	0.08	1.1	0.078	1.32	6.5	42.5	5.19	1600	0.65	1.53	1.6	148.5	140	154.5
2308		14.70	0.08	1.0	0.073	1.39	6.3	42.4	5.06	1550	0.57	1.64	1.6	143.5	150	152.5
2309		14.10	0.07	1.0	0.073	1.31	6.4	42.0	5.14	1570	0.75	1.48	1.8	150.0	150	147.0
2310		13.95	0.08	1.0	0.076	1.30	6.5	41.9	5.18	1600	0.73	1.48	1.7	148.0	140	147.5
2311		23.2	0.14	2.4	5.55	0.67	16.5	21.8	0.19	228	4.71	0.43	7.1	59.9	560	1025
2312		0.21	0.10	<0.1	0.010	0.01	1.1	1.3	2.24	122	0.23	0.02	0.1	1.2	50	2.2
2313		14.60	0.09	1.1	0.070	1.46	7.5	41.7	5.01	1520	1.06	1.67	1.9	139.0	170	101.5
2314		14.25	0.08	1.0	0.063	1.39	6.5	41.7	5.19	1500	0.77	1.57	1.7	158.0	160	70.6
2315		14.35	0.09	1.0	0.065	1.38	6.0	40.6	4.95	1420	1.03	1.53	1.6	150.5	150	70.3
2316		15.65	0.08	1.1	0.069	1.43	7.0	46.4	5.32	1520	0.65	1.63	1.9	170.5	170	76.7
2317		14.85	0.07	1.1	0.081	1.41	7.2	43.7	4.65	1400	0.77	1.68	1.5	142.0	160	106.5
2318		15.90	0.07	1.1	0.073	1.42	7.4	47.4	4.23	1370	2.23	1.77	1.5	133.0	190	88.5
2319		15.50	0.09	1.0	0.067	1.39	7.2	45.1	4.43	1370	1.79	1.72	1.5	120.5	170	84.4
2320		16.05	0.08	1.1	0.076	1.42	7.7	46.9	4.51	1400	1.78	1.77	1.5	127.0	160	86.4
2321		15.80	0.09	1.0	0.074	1.36	7.6	46.9	4.37	1340	1.35	1.74	1.5	121.5	180	81.8
2322		14.25	0.16	1.2	0.073	1.29	7.9	43.7	4.45	1400	1.52	1.74	1.9	118.0	200	75.4
2323		14.70	0.07	1.2	0.064	1.22	8.0	57.8	4.52	1370	1.86	1.78	1.8	121.5	220	72.1
2324		13.80	0.17	1.1	0.071	1.22	7.2	45.8	4.69	1360	0.98	1.60	1.6	142.0	190	78.0
2325		13.75	0.16	1.0	0.064	1.21	6.4	41.4	4.74	1370	0.48	1.66	1.5	148.0	160	51.7
2326		14.95	0.15	1.1	0.075	1.32	8.5	44.2	4.44	1360	1.21	1.82	1.7	119.5	190	78.2
2327		14.55	0.16	1.1	0.072	1.26	8.5	44.0	4.18	1340	1.08	1.83	1.5	121.5	170	89.2
2328		14.30	0.13	1.0	0.075	1.25	7.8	45.2	4.99	1480	1.03	1.78	1.7	142.5	170	80.8
2329		13.75	0.13	1.0	0.070	1.23	7.4	44.7	4.98	1480	0.53	1.69	1.6	151.0	170	79.9
2330		13.40	0.13	1.0	0.070	1.22	7.6	43.4	4.97	1460	0.50	1.69	1.6	149.5	170	82.2



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CERTIFICATE OF ANALYSIS SD19232567

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		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
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
2291		26.3	0.002	2.05	82.6	3.9	29	5.4	447	0.55	38.1	6.45	0.209	1.76	2.4	32
2292		0.2	<0.002	0.02	0.22	0.2	1	<0.2	81.1	<0.05	<0.05	0.06	0.005	<0.02	0.1	1
2293		51.4	<0.002	0.03	17.05	35.4	<1	0.8	104.0	0.11	<0.05	1.20	0.290	0.24	0.6	186
2294		54.3	0.002	0.02	8.88	34.2	<1	1.0	108.0	0.13	<0.05	1.15	0.327	0.22	0.6	197
2295		57.5	<0.002	0.02	9.31	36.4	<1	1.0	113.0	0.13	<0.05	1.25	0.321	0.21	0.6	199
2296		58.5	0.002	0.03	14.95	36.4	1	0.7	104.5	0.11	<0.05	1.15	0.294	0.21	0.5	190
2297		49.2	<0.002	0.02	6.60	33.1	<1	0.7	113.0	0.11	<0.05	1.09	0.285	0.24	0.6	185
2298		63.2	<0.002	0.02	7.48	36.3	1	0.6	114.5	0.13	<0.05	1.03	0.305	0.23	0.5	190
2299		54.7	<0.002	0.02	7.50	37.1	1	0.6	107.0	0.11	<0.05	1.03	0.292	0.23	0.5	190
2300		60.2	0.002	0.02	7.67	38.9	1	0.6	109.0	0.12	<0.05	1.12	0.295	0.19	0.5	192
2301		62.5	<0.002	0.02	10.85	37.6	<1	0.6	107.0	0.12	<0.05	1.17	0.291	0.23	0.6	189
2302		54.4	<0.002	0.01	13.10	38.2	<1	0.6	109.5	0.12	<0.05	1.19	0.288	0.22	0.6	187
2303		52.2	<0.002	0.08	13.80	31.1	<1	0.6	157.0	0.15	<0.05	1.80	0.254	0.22	0.7	154
2304		65.2	<0.002	0.03	18.75	41.4	<1	0.6	119.5	0.11	<0.05	1.10	0.292	0.26	0.5	205
2305		51.6	<0.002	0.03	17.30	38.0	<1	0.6	111.0	0.12	<0.05	1.01	0.288	0.23	0.5	196
2306		61.5	0.002	0.03	18.55	42.9	<1	0.6	106.5	0.11	<0.05	1.08	0.318	0.23	0.4	210
2307		59.8	0.002	0.03	20.8	45.8	<1	0.6	104.0	0.13	<0.05	1.10	0.330	0.23	0.5	221
2308		59.6	<0.002	0.02	19.80	42.8	1	0.5	108.0	0.12	<0.05	1.05	0.315	0.22	0.4	212
2309		59.8	0.002	0.02	19.05	43.8	<1	0.6	99.9	0.13	<0.05	1.09	0.348	0.20	0.5	219
2310		58.5	<0.002	0.02	18.50	43.9	<1	0.6	99.2	0.13	<0.05	1.10	0.354	0.21	0.5	221
2311		28.0	<0.002	2.11	87.0	4.0	33	5.7	455	0.55	40.1	6.75	0.216	1.75	2.4	33
2312		0.4	<0.002	0.02	0.20	0.3	1	<0.2	80.9	<0.05	0.05	0.07	0.005	<0.02	0.2	1
2313		64.1	<0.002	0.03	20.6	40.4	<1	0.7	109.5	0.14	<0.05	1.20	0.332	0.30	0.5	210
2314		61.0	<0.002	0.02	10.85	39.9	<1	0.6	104.5	0.13	<0.05	1.09	0.348	0.22	0.5	208
2315		60.1	<0.002	0.02	12.25	39.4	<1	0.6	103.5	0.12	<0.05	0.99	0.316	0.22	0.4	199
2316		66.0	<0.002	0.02	11.40	43.5	<1	0.7	112.0	0.13	<0.05	1.23	0.365	0.24	0.5	218
2317		61.2	<0.002	0.01	12.30	37.9	1	0.5	108.5	0.11	<0.05	1.19	0.289	0.23	0.5	190
2318		53.7	<0.002	0.04	15.00	34.6	1	0.6	111.0	0.11	<0.05	1.18	0.272	0.21	0.6	180
2319		61.3	<0.002	0.02	11.00	37.1	1	0.6	114.0	0.11	<0.05	1.12	0.278	0.21	0.6	180
2320		58.2	0.002	0.02	11.50	38.0	1	0.6	118.0	0.12	<0.05	1.17	0.286	0.25	0.5	186
2321		59.5	0.002	0.02	10.85	36.4	<1	0.6	116.5	0.11	<0.05	1.10	0.268	0.21	0.5	176
2322		59.6	<0.002	0.02	13.00	37.2	<1	0.6	115.0	0.16	<0.05	1.31	0.312	0.24	0.5	188
2323		55.4	<0.002	0.02	13.40	37.7	<1	0.5	109.0	0.14	<0.05	1.23	0.300	0.26	0.5	180
2324		57.3	<0.002	0.02	12.85	35.2	<1	0.5	105.5	0.12	<0.05	1.17	0.267	0.25	0.5	177
2325		58.0	<0.002	0.01	10.20	35.9	<1	0.5	109.5	0.12	<0.05	1.10	0.259	0.25	0.4	174
2326		61.5	<0.002	0.02	11.95	36.7	<1	0.5	114.5	0.13	<0.05	1.24	0.280	0.26	0.5	181
2327		56.6	0.002	0.02	15.10	33.5	<1	0.5	113.0	0.12	<0.05	1.19	0.251	0.26	0.5	166
2328		57.5	<0.002	0.02	15.20	38.8	1	0.5	114.5	0.12	<0.05	1.14	0.292	0.24	0.5	192
2329		56.1	<0.002	0.01	11.45	37.8	<1	0.5	107.5	0.12	<0.05	1.08	0.282	0.24	0.4	184
2330		55.8	<0.002	0.01	11.50	36.8	<1	0.5	106.5	0.12	<0.05	1.17	0.283	0.25	0.4	186



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Sample Description	Method Analyte Units LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Ag-OG62 Ag ppm 1	Cu-OG62 Cu % 0.001	CRU-QC Pass2mm % 0.01	PUL-QC Pass75um % 0.01
2291		11.6	5.7	4060	80.6	123			
2292		<0.1	1.9	9	1.0				
2293		0.2	16.3	115	40.9				
2294		0.3	15.4	86	44.0				
2295		0.3	15.9	92	42.8				
2296		0.2	15.7	105	36.7				
2297		0.3	14.9	104	39.6				
2298		0.2	15.3	99	38.7				
2299		0.3	14.6	87	35.6				
2300		0.4	15.4	87	36.6				
2301		0.3	16.3	87	37.7				
2302		0.3	17.3	91	38.0				
2303		0.3	14.7	157	50.5				
2304		0.2	16.9	122	36.1				
2305		0.3	15.8	119	37.2				
2306		0.3	16.1	115	36.0				
2307		0.3	17.5	120	38.1				
2308		0.3	16.0	123	36.6				
2309		0.3	17.1	115	35.4				
2310		0.3	16.8	116	35.6				
2311		11.9	6.1	4130	84.8	118			
2312		<0.1	1.9	9	1.3				
2313		0.3	16.3	106	39.1	87			
2314		0.4	15.5	102	36.5				
2315		0.2	14.6	97	36.3				
2316		0.3	16.3	106	42.3				
2317		0.3	16.1	102	40.2				
2318		0.3	17.4	100	40.2				
2319		0.3	16.0	94	37.7				
2320		0.3	16.9	97	39.9				
2321		0.3	16.8	93	37.9				
2322		0.3	16.4	96	43.4				
2323		0.3	16.8	89	46.0				
2324		0.3	14.9	98	39.2				
2325		0.3	13.9	93	36.5				
2326		0.3	16.2	93	40.2				
2327		0.2	15.6	89	38.1				
2328		0.3	15.7	101	38.0				
2329		0.3	15.2	101	37.7			92.9	
2330		0.3	14.9	100	35.1		94.5	89.5	



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Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Units		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
LOD		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
2331		0.07	>100	4.05	1925	160	0.70	153.5	0.33	58.6	22.7	15.8	31	1.73	9960	2.83
2332		1.28	0.57	0.06	4.4	30	0.06	0.27	33.7	0.09	0.99	1.1	2	<0.05	17.0	0.10
2333		2.23	30.8	7.24	377	160	0.66	3.67	7.16	0.16	16.45	113.0	178	1.14	74.9	5.95
2334		2.08	>100	7.11	419	120	1.08	5.30	4.38	0.09	33.2	229	141	0.89	95.8	4.88
2335		1.73	29.4	7.44	615	170	0.71	3.06	7.30	0.10	23.4	135.0	154	1.21	55.6	6.20
2336		2.10	43.2	7.36	686	150	0.80	4.88	6.83	0.11	18.65	135.0	133	1.32	80.1	6.23
2337		2.23	22.4	7.38	687	170	0.66	4.58	7.30	0.10	19.00	117.0	150	1.21	56.6	6.23
2338		2.36	50.2	7.52	902	160	0.85	6.64	7.24	0.12	19.30	181.0	149	1.36	91.8	6.69
2339		1.29	34.6	7.25	1025	160	0.79	10.40	7.17	0.13	21.7	177.5	181	1.29	86.4	6.73
2340		1.42	33.7	7.17	1010	150	0.79	10.30	7.07	0.12	21.0	171.5	188	1.31	87.2	6.63
2341		1.67	77.6	7.17	1310	170	0.66	18.55	7.10	0.15	19.65	294	155	1.25	106.0	6.83
2342		2.40	82.2	6.91	1400	160	1.02	12.45	6.96	0.15	15.85	311	184	1.16	108.5	6.99
2343		1.88	>100	7.30	1115	160	0.77	15.50	7.12	0.19	19.05	222	170	1.35	161.5	6.06
2344		2.32	79.7	7.64	553	180	0.68	5.95	7.02	0.15	16.80	119.5	188	1.24	126.0	6.13
2345		2.31	22.6	7.37	910	160	0.69	4.39	7.62	0.09	24.0	153.5	148	1.37	45.7	6.69
2346		2.20	>100	7.35	1240	150	0.74	14.35	7.68	0.19	20.0	278	166	1.60	184.0	6.55
2347		2.29	58.1	7.63	718	170	0.65	6.30	7.06	0.14	18.00	152.5	173	1.30	93.0	6.31
2348		2.18	33.2	7.43	777	160	0.68	4.65	6.95	0.11	19.65	139.5	154	1.37	60.4	6.12
2349		1.45	29.6	8.02	586	180	0.73	4.09	7.09	0.11	21.7	99.6	164	1.21	60.1	6.54
2350		1.22	32.6	7.67	557	170	0.79	3.49	6.72	0.11	22.0	95.2	161	1.17	58.5	6.24
2351		0.07	>100	4.09	1955	130	0.69	154.0	0.33	59.6	23.1	16.3	32	1.76	>10000	2.85
2352		1.16	0.46	0.07	4.4	30	0.05	0.20	32.6	0.07	0.93	1.0	3	<0.05	11.5	0.12
2353		1.64	29.7	7.09	801	170	0.72	7.93	7.23	0.12	21.3	155.5	143	1.91	64.8	6.92
2354		1.83	37.8	7.89	690	160	0.72	3.60	7.12	0.11	17.70	118.5	154	1.18	67.6	6.05
2355		2.29	36.1	7.66	757	160	0.71	3.50	6.95	0.11	17.75	130.0	145	1.13	66.4	5.93
2356		2.10	55.3	7.83	788	160	0.69	4.05	7.32	0.12	17.55	144.5	180	1.20	70.0	6.25
2357		1.54	81.1	7.36	969	140	0.76	6.47	7.79	0.13	16.05	209	221	1.22	87.4	6.27
2358		1.61	48.1	7.12	1245	130	0.70	7.06	7.61	0.13	15.85	267	238	1.09	90.1	6.28
2359		1.54	80.9	6.96	1125	140	0.73	6.58	7.35	0.14	16.40	294	239	1.16	90.3	6.29
2360		1.46	56.6	7.08	1250	140	0.76	13.45	7.37	0.15	17.15	321	231	1.18	86.4	6.40
2361		1.19	52.8	7.14	1090	120	0.75	4.93	7.77	0.17	15.15	283	278	1.22	92.5	6.34
2362		1.46	53.5	7.09	716	150	0.70	4.13	7.08	0.13	17.10	236	187	1.13	89.1	6.82
2363		2.04	31.9	7.31	899	140	0.69	4.63	7.76	0.10	19.35	184.5	197	1.23	48.3	6.31
2364		1.82	32.0	7.18	749	190	0.76	3.11	7.44	0.21	24.3	153.0	210	1.16	53.1	6.59
2365		1.93	60.4	7.53	527	160	0.71	2.80	7.29	0.11	16.65	210	163	1.08	68.0	6.32
2366		1.88	34.6	7.33	832	160	0.67	4.43	7.32	0.13	18.25	170.0	203	1.23	60.1	6.23
2367		1.81	51.4	7.11	1135	220	0.76	4.89	7.04	0.25	26.4	187.0	197	1.24	78.7	6.69
2368		1.89	27.2	7.44	891	180	0.76	3.72	7.44	0.14	21.8	152.0	186	1.26	64.4	6.14
2369		1.33	20.3	7.36	675	160	0.65	2.05	7.31	0.11	18.20	121.5	201	1.09	47.1	6.06
2370		1.25	21.8	7.34	654	150	0.69	2.35	7.27	0.11	19.35	123.5	200	1.16	50.1	6.02



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		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
2331		23.7	0.23	2.6	12.40	0.61	8.6	19.8	0.08	141	6.36	0.42	7.8	116.5	550	2030
2332		0.25	0.10	<0.1	0.020	0.01	1.2	1.1	1.58	112	0.06	0.02	0.1	0.7	70	3.4
2333		13.35	0.09	1.1	0.071	1.25	7.2	42.0	4.81	1440	0.44	1.61	1.7	139.0	170	70.0
2334		15.50	0.11	1.7	0.059	0.77	15.8	35.4	3.20	883	1.57	2.82	2.7	143.0	330	41.5
2335		14.60	0.09	1.5	0.079	1.15	10.5	44.9	4.21	1400	1.24	1.93	2.0	121.0	300	51.7
2336		14.50	0.10	1.2	0.077	1.32	8.3	43.8	4.31	1400	1.86	1.84	1.9	119.5	200	77.4
2337		13.90	0.10	1.3	0.068	1.28	8.5	42.2	4.37	1430	1.43	1.75	1.7	110.5	210	69.9
2338		14.85	0.10	1.2	0.084	1.35	8.6	44.1	4.67	1510	2.07	1.86	2.1	132.0	190	89.3
2339		14.30	0.08	1.3	0.085	1.24	9.6	42.0	4.83	1540	1.67	1.78	2.5	139.5	220	78.6
2340		14.50	0.09	1.4	0.082	1.22	9.1	42.2	4.77	1520	1.74	1.78	2.5	139.0	220	81.5
2341		14.10	0.07	1.3	0.078	1.20	8.7	38.4	4.75	1580	0.77	1.78	2.3	153.0	210	94.6
2342		14.10	<0.05	1.2	0.065	1.25	7.0	55.2	5.05	1530	0.94	1.67	2.2	160.0	180	103.5
2343		14.35	0.09	1.1	0.076	1.31	8.4	45.9	4.45	1330	1.82	1.59	1.6	143.5	210	130.0
2344		14.15	0.06	1.0	0.067	1.45	7.5	43.6	4.66	1340	1.04	1.71	1.5	132.0	180	96.1
2345		14.95	0.07	1.4	0.085	1.17	10.8	45.8	4.52	1480	2.22	1.74	1.9	115.0	290	65.0
2346		14.85	0.07	1.1	0.087	1.31	9.0	49.8	4.64	1460	2.52	1.59	1.5	160.0	220	109.5
2347		14.50	0.07	1.1	0.072	1.33	8.1	43.7	4.68	1390	1.45	1.71	1.6	134.0	200	88.8
2348		14.80	0.08	1.1	0.078	1.23	8.9	45.2	4.43	1360	1.83	1.71	1.6	120.5	220	80.5
2349		15.15	0.08	1.6	0.077	1.32	9.8	41.3	4.46	1440	1.71	2.09	2.4	112.5	290	76.8
2350		14.70	0.07	1.4	0.074	1.27	9.8	42.0	4.25	1370	1.62	2.00	2.2	108.5	270	75.2
2351		24.4	0.19	2.7	12.45	0.62	8.6	19.8	0.08	142	6.41	0.42	7.7	118.0	540	2040
2352		0.23	0.05	<0.1	0.015	0.01	1.1	1.2	1.57	112	0.13	0.02	0.1	0.7	70	2.4
2353		15.55	0.06	1.0	0.085	1.24	9.4	61.9	4.85	1420	3.24	1.47	1.3	128.0	260	90.4
2354		14.45	0.06	1.1	0.074	1.32	8.0	41.8	4.50	1360	1.40	1.92	1.5	119.0	190	82.4
2355		14.50	0.06	1.1	0.069	1.29	8.1	41.3	4.31	1350	1.48	1.89	1.6	118.5	190	86.4
2356		14.30	0.05	1.0	0.072	1.25	8.0	43.5	4.83	1420	1.65	1.86	1.6	134.5	200	80.8
2357		13.00	0.06	1.0	0.075	1.20	7.1	41.8	5.27	1530	1.13	1.64	1.7	174.0	150	85.0
2358		12.90	<0.05	1.0	0.068	1.14	7.2	40.3	5.10	1480	1.31	1.62	1.8	181.0	160	83.6
2359		13.20	0.06	1.1	0.072	1.12	7.5	42.8	5.06	1480	0.87	1.62	1.9	193.5	190	92.6
2360		13.35	<0.05	1.2	0.074	1.15	7.7	42.6	5.04	1480	0.81	1.66	1.9	197.0	190	91.0
2361		12.70	<0.05	0.9	0.069	1.09	7.0	47.1	5.76	1510	0.78	1.55	1.7	207	150	83.1
2362		13.85	<0.05	1.2	0.075	1.23	7.7	43.4	4.74	1520	0.72	1.70	2.4	148.0	190	88.3
2363		14.55	<0.05	1.1	0.077	1.11	8.8	51.0	4.82	1400	2.26	1.70	1.5	145.0	240	71.6
2364		14.25	0.05	1.4	0.080	1.10	10.7	50.1	4.77	1630	1.49	1.88	2.1	145.0	290	95.4
2365		14.45	<0.05	1.2	0.073	1.29	7.7	42.6	4.17	1420	0.62	1.92	1.9	138.5	220	66.3
2366		14.05	0.05	1.0	0.071	1.20	8.3	48.7	4.70	1390	2.07	1.71	1.6	144.0	220	81.2
2367		14.40	0.06	1.3	0.082	1.18	11.8	53.1	4.66	1620	1.64	1.87	2.3	142.5	270	121.5
2368		14.65	0.05	1.2	0.077	1.29	9.8	51.3	4.59	1400	1.78	1.82	1.8	133.5	230	75.5
2369		12.55	<0.05	1.2	0.063	1.18	8.1	41.7	4.58	1380	1.58	1.80	1.7	121.5	240	66.4
2370		13.50	<0.05	1.2	0.068	1.18	8.7	45.7	4.56	1360	1.77	1.79	1.8	126.5	230	69.1



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CERTIFICATE OF ANALYSIS SD19232567

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
2331		23.8	0.002	3.76	221	4.4	60	13.3	435	0.60	59.3	5.18	0.201	4.37	2.7	32
2332		0.4	<0.002	0.01	0.49	0.2	1	<0.2	83.7	<0.05	0.11	0.07	0.005	<0.02	0.2	1
2333		58.7	<0.002	0.01	10.45	37.7	<1	0.5	107.0	0.13	<0.05	1.20	0.296	0.25	0.5	186
2334		36.0	0.002	0.03	14.90	26.5	<1	0.6	119.5	0.21	<0.05	2.86	0.285	0.15	1.1	141
2335		52.9	0.002	0.02	9.42	33.6	<1	0.7	115.0	0.15	<0.05	1.74	0.313	0.24	0.7	188
2336		60.5	<0.002	0.02	12.55	37.3	<1	0.6	107.5	0.14	<0.05	1.31	0.316	0.25	0.6	193
2337		58.1	<0.002	0.02	9.96	34.9	<1	0.6	111.0	0.14	<0.05	1.37	0.303	0.25	0.6	190
2338		58.2	0.002	0.02	15.60	40.3	<1	0.6	109.0	0.15	<0.05	1.28	0.350	0.26	0.6	209
2339		56.9	0.002	0.02	13.65	39.7	<1	0.6	110.5	0.18	<0.05	1.29	0.405	0.23	0.6	220
2340		58.5	<0.002	0.02	13.60	40.9	<1	0.6	109.5	0.19	<0.05	1.38	0.393	0.25	0.6	215
2341		55.1	<0.002	0.02	18.15	39.6	<1	0.6	105.5	0.16	<0.05	1.32	0.406	0.23	0.6	225
2342		55.5	<0.002	0.02	16.85	44.5	1	0.5	96.4	0.16	<0.05	1.18	0.395	0.23	0.5	215
2343		64.1	0.002	0.04	23.5	35.0	<1	0.6	105.0	0.12	<0.05	1.21	0.263	0.28	0.6	179
2344		64.8	0.002	0.04	16.90	36.5	<1	0.5	113.0	0.11	<0.05	1.14	0.255	0.29	0.5	181
2345		53.3	0.002	0.01	12.30	33.6	<1	0.7	106.0	0.15	<0.05	1.55	0.315	0.22	0.7	193
2346		61.9	0.003	0.05	26.3	35.2	<1	0.7	98.7	0.11	<0.05	1.33	0.276	0.30	0.7	191
2347		59.8	<0.002	0.03	13.95	34.5	<1	0.6	109.5	0.12	<0.05	1.22	0.280	0.27	0.6	185
2348		58.6	<0.002	0.02	12.60	33.1	<1	0.8	109.5	0.12	<0.05	1.32	0.269	0.25	0.6	179
2349		58.2	0.002	0.02	10.90	35.0	<1	0.6	125.0	0.17	<0.05	1.40	0.347	0.26	0.6	197
2350		56.9	0.002	0.02	11.70	34.4	<1	0.5	120.5	0.16	<0.05	1.41	0.328	0.23	0.6	188
2351		24.3	<0.002	3.80	218	4.3	60	13.0	433	0.59	61.2	5.21	0.202	4.40	2.7	32
2352		0.3	<0.002	<0.01	0.37	0.2	1	<0.2	79.8	<0.05	0.08	0.07	0.005	<0.02	0.1	1
2353		54.5	0.002	0.02	12.35	29.2	<1	0.9	101.5	0.10	<0.05	1.45	0.227	0.25	0.7	178
2354		56.6	<0.002	0.02	12.80	34.6	<1	0.5	114.0	0.12	<0.05	1.20	0.271	0.25	0.5	177
2355		55.0	0.002	0.02	12.65	34.3	<1	0.5	117.0	0.12	<0.05	1.20	0.269	0.25	0.5	176
2356		55.9	0.002	0.02	13.50	35.9	<1	0.5	115.5	0.12	<0.05	1.17	0.283	0.25	0.6	186
2357		53.5	<0.002	0.02	16.95	38.8	<1	0.5	101.0	0.12	<0.05	1.04	0.309	0.23	0.4	198
2358		51.9	0.002	0.02	18.15	39.2	1	0.5	96.8	0.12	<0.05	1.00	0.320	0.21	0.4	199
2359		52.5	<0.002	0.02	17.75	38.9	1	0.5	97.0	0.13	<0.05	1.08	0.320	0.20	0.5	198
2360		52.7	<0.002	0.02	17.75	39.5	1	0.5	98.0	0.13	<0.05	1.09	0.326	0.21	0.5	197
2361		50.8	<0.002	0.02	15.75	41.1	1	0.4	95.7	0.11	<0.05	0.90	0.296	0.19	0.4	197
2362		58.9	<0.002	0.02	14.50	42.5	1	0.6	99.6	0.16	<0.05	1.18	0.388	0.22	0.6	219
2363		46.2	<0.002	0.02	13.00	32.9	1	0.5	102.0	0.11	<0.05	1.18	0.253	0.20	0.6	175
2364		45.9	0.002	0.02	11.30	34.4	1	0.6	109.5	0.15	<0.05	1.20	0.326	0.18	0.6	183
2365		57.7	<0.002	0.01	11.70	36.3	1	0.5	107.5	0.13	<0.05	1.25	0.317	0.25	0.6	199
2366		49.3	0.002	0.02	12.05	31.9	<1	0.5	104.5	0.11	<0.05	1.14	0.253	0.22	0.5	174
2367		52.1	0.002	0.02	11.30	35.3	1	0.6	107.0	0.15	<0.05	1.14	0.347	0.20	0.6	188
2368		52.7	0.002	0.02	10.15	35.0	1	0.5	115.5	0.13	<0.05	1.15	0.279	0.22	0.6	179
2369		48.4	0.002	0.02	9.66	30.9	1	0.5	103.0	0.12	<0.05	1.03	0.295	0.19	0.5	178
2370		52.9	0.002	0.02	10.40	33.7	1	0.5	107.5	0.13	<0.05	1.13	0.289	0.21	0.5	177



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Cu-OG62	CRU-QC	PUL-QC
		W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Ag ppm 1	Cu % 0.001	Pass2mm % 0.01	Pass75um % 0.01
2331		15.8	6.0	9250	92.4	291			
2332		<0.1	2.0	19	1.4				
2333		0.3	14.9	102	38.6				
2334		0.5	15.2	58	62.1	107			
2335		0.3	17.9	86	54.6				
2336		0.3	17.1	91	44.0				
2337		0.3	16.7	91	45.7				93.9
2338		0.3	17.5	97	45.0				85.9
2339		0.3	18.9	98	49.1				
2340		0.3	19.0	95	50.6				
2341		0.3	18.3	109	47.4				
2342		0.3	16.6	106	43.0				
2343		0.2	16.7	112	40.7	111			
2344		0.2	15.4	102	37.2				
2345		0.3	19.6	94	54.2				
2346		0.2	17.8	122	41.7	113			
2347		0.3	15.9	102	39.2				
2348		0.3	16.6	95	42.0				
2349		0.3	18.9	96	56.9				
2350		0.3	18.6	91	52.6				
2351		16.0	6.1	9280	93.6	281	0.971		
2352		0.1	2.0	13	1.3				
2353		0.3	17.1	116	36.3				
2354		0.3	15.4	93	40.2				
2355		0.3	15.5	92	40.9				
2356		0.3	15.5	97	38.8				
2357		0.3	15.2	98	34.9				
2358		0.3	15.3	99	37.5				
2359		0.3	16.3	108	41.1				
2360		0.3	16.0	108	43.6				
2361		0.2	14.8	110	35.1				
2362		0.3	17.2	105	43.2				
2363		0.3	16.4	99	43.0				
2364		0.5	17.2	142	49.0				
2365		0.4	16.3	97	46.6				
2366		0.4	15.7	104	40.3				
2367		0.5	19.5	157	48.4				
2368		0.3	18.3	102	45.5				
2369		0.3	14.9	97	42.8				91.6
2370		0.3	16.1	95	44.4			95.3	92.9



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Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Units		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
LOD		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
2371		0.07	>100	3.93	1910	60	0.72	153.5	0.33	57.4	22.0	16.2	31	1.67	9680	2.76
2372		0.98	0.64	0.10	8.5	30	0.06	0.28	34.4	0.10	0.96	1.7	2	<0.05	18.1	0.13
2373		2.51	26.7	7.63	1060	140	0.70	4.17	8.07	0.10	20.2	191.5	202	1.33	47.5	6.59
2374		1.35	24.0	7.63	683	160	0.72	2.42	7.56	0.13	19.85	131.5	200	1.22	52.5	6.31
2375		1.98	27.8	7.57	701	170	0.73	2.49	7.14	0.13	23.4	129.0	182	1.26	56.4	6.57
2376		1.68	26.1	7.15	692	170	0.67	2.26	6.94	0.17	20.9	134.0	183	1.24	62.9	6.17
2377		1.55	36.8	7.55	518	200	0.71	2.93	6.64	0.14	27.1	104.0	169	1.21	67.0	6.90
2378		1.84	41.2	7.19	747	150	0.65	7.38	6.57	0.10	16.85	158.5	175	2.05	69.1	7.15
2379		1.48	27.6	7.25	798	140	0.71	3.76	7.67	0.10	19.60	167.0	196	1.31	38.2	6.17
2380		1.27	27.0	7.39	832	140	0.76	4.10	7.81	0.11	19.85	166.0	204	1.34	39.8	6.17
2381		1.80	28.7	7.46	881	200	0.88	2.64	7.65	0.25	30.2	186.0	189	1.24	44.6	5.95
2382		1.70	25.4	7.42	779	180	0.73	2.71	7.77	0.19	26.2	135.5	188	1.24	46.6	6.05
2383		2.01	43.9	7.44	785	180	0.65	5.09	7.44	0.14	21.1	169.5	183	1.23	66.9	6.52
2384		1.85	58.3	7.23	915	180	0.64	7.92	6.76	0.21	16.90	216	188	1.74	121.5	7.07
2385		1.58	36.0	7.25	913	170	0.71	5.19	7.78	0.12	21.9	198.0	192	1.63	61.3	7.24
2386		1.72	51.8	7.23	512	150	0.70	3.01	6.87	0.11	18.15	169.5	174	1.16	70.4	6.47
2387		2.53	46.8	7.21	833	150	0.64	3.90	7.37	0.11	20.4	184.0	165	1.21	64.2	6.29
2388		1.92	42.9	7.15	870	170	0.63	7.52	7.49	0.15	20.0	196.0	183	1.33	80.3	6.75
2389		1.55	29.0	7.29	936	130	0.71	4.56	7.98	0.07	20.0	183.0	192	1.10	41.4	6.07
2390		1.30	29.5	7.42	933	130	0.71	4.66	8.17	0.07	19.85	182.0	189	1.13	41.0	6.01
2391		0.07	>100	3.86	1870	60	0.68	151.5	0.32	54.5	22.0	15.0	32	1.58	9550	2.71
2392		0.96	0.40	0.07	5.4	20	0.06	0.17	34.1	0.06	0.95	1.7	3	<0.05	11.5	0.12
2393		2.20	29.1	7.70	909	150	0.77	5.01	8.06	0.11	19.00	190.5	213	1.16	51.2	6.19
2394		2.12	23.5	6.81	754	170	0.66	4.03	7.13	0.13	23.3	140.0	180	1.32	46.9	5.91
2395		2.03	30.2	7.40	462	180	0.63	3.84	6.78	0.15	15.95	118.5	176	1.14	68.7	5.91
2396		1.22	61.0	7.24	496	150	0.62	4.74	6.94	0.13	16.50	178.0	165	1.11	78.3	6.16
2397		1.93	23.9	7.32	489	120	0.69	2.29	7.35	0.12	16.05	128.0	209	1.21	58.9	5.65
2398		1.81	31.1	7.03	575	160	0.68	4.55	6.93	0.13	19.80	143.5	160	1.10	54.3	5.82
2399		1.05	31.8	6.77	815	180	0.84	3.10	6.64	0.18	23.4	149.5	171	1.21	73.4	6.05
2400		1.53	33.6	7.15	853	190	0.65	3.22	6.95	0.18	24.0	153.5	179	1.24	75.6	6.40
2401		1.61	49.0	6.97	640	180	0.66	3.17	6.55	0.16	21.5	152.5	167	1.14	70.5	6.12
2402		2.23	51.1	7.17	339	150	0.57	1.99	6.78	0.13	15.35	136.0	158	1.08	75.8	6.38
2403		2.29	46.4	6.91	579	150	0.72	3.00	6.74	0.31	19.55	128.5	209	1.18	71.9	5.37
2404		1.95	38.4	7.11	676	180	0.75	3.59	6.99	0.41	23.2	154.5	206	1.22	76.5	5.90
2405		1.78	51.1	7.24	792	190	0.73	5.43	7.05	0.25	22.6	180.5	186	1.25	79.5	6.63
2406		1.96	38.0	7.32	759	180	0.73	3.10	6.98	0.22	20.6	146.0	175	1.37	71.0	6.44
2407		2.31	32.5	7.38	617	160	0.68	2.57	7.08	0.15	18.65	134.5	175	1.35	66.0	6.07
2408		2.31	46.6	7.10	602	180	0.61	3.99	6.72	0.23	21.5	140.5	170	1.11	75.1	6.26
2409		1.31	45.0	7.40	652	140	0.63	5.81	7.22	0.12	15.25	139.5	192	1.19	71.9	5.86
2410		1.23	41.4	7.51	660	140	0.68	6.39	7.44	0.12	15.85	141.5	194	1.21	71.3	5.94



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CERTIFICATE OF ANALYSIS SD19232567

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units LOD	ppm 0.05	ppm 0.05	ppm 0.1	ppm 0.005	% 0.01	ppm 0.5	ppm 0.2	% 0.01	ppm 5	ppm 0.05	% 0.01	ppm 0.1	ppm 0.2	ppm 10	ppm 0.5
2371		23.3	0.18	2.6	12.40	0.61	8.2	20.8	0.08	139	6.24	0.40	8.1	111.0	530	1985
2372		0.30	<0.05	<0.1	0.023	0.01	1.0	1.2	1.65	112	0.17	0.03	0.1	1.2	80	4.6
2373		14.65	<0.05	1.1	0.078	1.15	9.2	52.0	4.98	1460	3.28	1.75	1.5	157.5	250	68.4
2374		14.15	<0.05	1.2	0.075	1.22	9.2	47.3	4.74	1420	1.66	1.89	1.9	132.5	230	70.8
2375		14.90	<0.05	1.5	0.080	1.19	10.7	45.5	4.41	1420	1.65	2.00	2.4	121.0	280	71.0
2376		14.20	0.05	1.3	0.079	1.17	9.5	47.4	4.39	1420	1.64	1.81	2.0	119.5	270	94.8
2377		15.95	0.05	1.8	0.081	1.25	12.0	37.3	4.15	1400	0.91	2.25	3.0	123.5	330	63.6
2378		16.00	0.05	0.7	0.077	1.19	7.4	68.7	5.26	1340	3.13	1.34	1.1	150.0	260	96.6
2379		13.85	<0.05	1.0	0.070	1.08	8.8	51.4	4.86	1360	2.00	1.63	1.4	143.0	250	68.4
2380		14.25	<0.05	1.0	0.068	1.09	9.0	52.5	4.91	1360	2.23	1.64	1.4	144.0	250	69.4
2381		14.65	0.05	1.5	0.075	1.11	13.3	50.2	4.60	1460	2.09	2.01	2.0	144.0	370	116.0
2382		14.20	0.06	1.3	0.075	1.18	11.5	50.0	4.59	1440	1.92	1.86	2.0	124.5	300	83.4
2383		15.25	0.06	1.3	0.080	1.25	9.5	48.4	4.56	1460	1.53	1.86	1.9	134.0	270	81.7
2384		15.55	0.06	0.8	0.076	1.23	7.5	68.3	5.54	1440	3.15	1.39	1.2	189.0	260	141.0
2385		14.95	0.05	1.0	0.083	1.15	9.9	64.4	5.30	1560	2.88	1.57	1.5	160.5	310	93.3
2386		14.60	0.06	1.2	0.076	1.24	8.4	46.2	4.32	1400	1.16	1.79	1.9	129.5	250	86.9
2387		14.25	0.07	1.2	0.076	1.16	9.3	48.2	4.45	1420	1.14	1.71	1.7	133.5	250	71.7
2388		14.45	0.05	1.1	0.075	1.17	8.9	57.1	5.07	1540	2.28	1.58	1.5	162.5	270	105.5
2389		14.00	0.05	1.2	0.079	1.11	9.1	46.3	4.63	1390	1.81	1.76	1.6	135.0	230	61.1
2390		13.80	0.07	1.2	0.078	1.11	9.1	46.0	4.66	1400	1.65	1.74	1.5	133.0	230	59.8
2391		22.2	0.18	2.5	11.75	0.60	8.6	19.0	0.08	136	6.13	0.40	7.7	107.0	520	1940
2392		0.25	0.05	<0.1	0.016	0.01	1.1	1.3	1.91	114	0.16	0.02	0.1	1.2	70	2.5
2393		13.90	<0.05	1.1	0.078	1.21	8.7	45.2	4.90	1450	2.78	1.87	1.6	154.0	220	73.3
2394		13.25	0.09	1.1	0.080	1.08	10.2	51.0	4.46	1450	1.44	1.72	1.7	132.5	210	82.0
2395		13.80	0.09	1.1	0.071	1.26	6.9	44.4	4.58	1400	0.72	1.75	1.7	131.5	180	81.9
2396		14.20	0.11	1.2	0.070	1.27	7.2	41.3	4.49	1400	0.59	1.74	1.9	139.0	200	72.8
2397		13.05	0.09	1.0	0.067	1.11	7.3	46.2	4.96	1360	1.49	1.67	1.4	153.0	150	76.5
2398		13.95	0.09	1.2	0.075	1.13	8.8	43.2	4.27	1400	0.99	1.73	1.8	125.5	220	79.8
2399		13.60	0.10	1.3	0.080	1.13	10.0	43.2	4.40	1460	1.60	1.78	2.1	129.5	250	91.2
2400		14.00	0.09	1.3	0.083	1.20	10.3	45.3	4.64	1530	1.82	1.88	2.1	135.5	260	93.2
2401		13.65	0.11	1.2	0.075	1.22	9.8	41.0	4.36	1440	0.77	1.78	2.0	128.0	220	76.3
2402		13.80	0.09	1.2	0.072	1.29	6.8	37.5	4.47	1460	0.56	1.75	2.0	123.0	180	77.6
2403		13.05	0.10	1.1	0.066	1.08	8.4	40.6	4.57	1320	1.29	1.72	1.6	145.5	200	125.0
2404		13.50	0.10	1.2	0.069	1.12	9.9	45.3	4.87	1440	0.65	1.81	1.9	152.5	240	127.5
2405		14.25	0.09	1.4	0.078	1.20	9.7	45.8	4.75	1580	0.57	1.83	2.3	130.0	270	113.5
2406		14.55	0.11	1.3	0.073	1.18	9.0	45.2	4.60	1490	1.92	1.80	2.1	128.0	250	91.9
2407		13.80	0.10	1.2	0.073	1.18	8.2	43.4	4.61	1410	2.01	1.75	1.8	131.0	210	71.1
2408		14.05	0.09	1.3	0.071	1.13	9.3	41.8	4.40	1430	0.58	1.79	2.2	124.5	240	87.5
2409		13.55	0.09	1.1	0.066	1.23	6.8	39.0	4.80	1380	0.91	1.72	1.5	149.5	150	93.1
2410		13.50	0.09	1.1	0.071	1.25	7.0	39.1	4.92	1420	0.88	1.73	1.5	150.5	160	88.6



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CERTIFICATE OF ANALYSIS SD19232567

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
2371		24.4	0.002	3.63	215	4.2	66	12.2	425	0.56	61.1	4.78	0.195	3.96	2.6	31
2372		0.5	<0.002	<0.01	0.56	0.3	2	<0.2	78.7	<0.05	0.10	0.06	0.006	<0.02	0.1	2
2373		50.0	0.002	0.02	14.80	33.4	1	0.5	102.5	0.11	<0.05	1.25	0.253	0.20	0.6	183
2374		49.9	0.002	0.01	10.75	34.6	1	0.5	113.5	0.13	<0.05	1.19	0.302	0.22	0.5	184
2375		53.9	0.002	0.02	10.30	34.2	1	0.6	112.0	0.17	<0.05	1.42	0.366	0.20	0.6	187
2376		50.7	0.002	0.02	11.15	33.0	1	0.5	113.0	0.14	<0.05	1.18	0.301	0.21	0.5	182
2377		55.2	<0.002	0.01	11.75	35.7	1	0.8	114.0	0.22	<0.05	1.92	0.456	0.22	0.9	190
2378		44.6	0.002	0.03	14.75	25.9	1	0.6	92.3	0.08	<0.05	1.07	0.187	0.23	0.5	169
2379		48.2	0.002	0.02	11.90	30.8	1	0.5	99.7	0.10	<0.05	1.16	0.223	0.19	0.5	166
2380		49.3	<0.002	0.02	12.55	31.0	1	0.5	101.5	0.10	<0.05	1.16	0.229	0.20	0.5	168
2381		47.7	0.002	0.02	13.00	31.9	1	0.6	116.0	0.13	<0.05	1.55	0.274	0.18	0.6	166
2382		54.4	0.002	0.02	9.65	34.0	1	0.5	114.0	0.13	<0.05	1.27	0.289	0.20	0.6	178
2383		46.6	0.002	0.02	11.50	35.1	1	0.6	115.0	0.14	<0.05	1.29	0.302	0.22	0.6	188
2384		39.8	0.003	0.05	16.00	27.8	1	0.6	100.0	0.09	<0.05	1.13	0.204	0.23	0.5	168
2385		45.2	0.002	0.02	12.75	30.3	1	0.5	98.7	0.10	<0.05	1.19	0.246	0.19	0.6	188
2386		52.1	0.002	0.01	13.25	34.5	1	0.5	102.0	0.13	<0.05	1.34	0.304	0.23	0.7	194
2387		52.1	<0.002	0.01	13.35	34.5	1	0.5	105.0	0.12	<0.05	1.28	0.277	0.21	0.6	183
2388		46.3	0.002	0.02	12.85	32.1	1	0.6	102.0	0.12	<0.05	1.16	0.252	0.20	0.6	179
2389		42.4	0.002	0.01	12.55	33.8	1	0.7	103.0	0.11	<0.05	1.14	0.257	0.19	0.6	176
2390		49.4	0.002	0.01	12.25	33.5	1	0.6	101.5	0.11	<0.05	1.24	0.255	0.19	0.6	174
2391		23.3	<0.002	3.57	210	3.8	62	11.8	430	0.56	58.0	4.72	0.191	3.87	2.4	31
2392		0.4	<0.002	0.01	0.35	0.3	2	<0.2	80.8	<0.05	0.07	0.06	0.005	<0.02	0.1	2
2393		47.4	0.002	0.02	12.75	33.5	1	0.5	108.0	0.11	0.05	1.12	0.269	0.20	0.5	181
2394		48.0	0.002	0.01	10.90	31.7	1	0.6	96.6	0.14	<0.05	1.12	0.294	0.22	0.6	172
2395		55.9	<0.002	0.02	9.62	33.7	1	0.5	107.5	0.13	<0.05	1.06	0.291	0.26	0.5	178
2396		59.4	<0.002	0.01	12.10	37.3	1	0.5	103.5	0.14	<0.05	1.21	0.316	0.26	0.6	195
2397		50.5	0.002	0.02	10.95	34.1	<1	0.5	99.9	0.11	<0.05	0.97	0.250	0.22	0.5	167
2398		51.7	<0.002	0.01	10.50	32.8	1	0.6	102.0	0.14	<0.05	1.20	0.295	0.23	0.6	175
2399		50.8	<0.002	0.02	13.20	33.2	1	0.8	102.0	0.15	<0.05	1.16	0.336	0.21	0.6	183
2400		52.3	<0.002	0.02	13.50	34.5	<1	0.8	107.0	0.15	<0.05	1.21	0.349	0.24	0.6	192
2401		54.4	0.002	0.01	11.45	35.2	<1	0.6	103.5	0.14	<0.05	1.29	0.333	0.25	0.6	191
2402		59.3	<0.002	0.01	12.95	38.8	<1	0.5	101.0	0.15	<0.05	1.25	0.352	0.26	0.6	208
2403		48.1	<0.002	0.02	13.60	32.2	1	0.8	101.0	0.12	<0.05	1.23	0.256	0.22	0.5	162
2404		49.8	<0.002	0.02	10.50	34.4	<1	0.5	105.5	0.13	<0.05	1.35	0.302	0.22	0.6	177
2405		53.7	<0.002	0.01	9.20	36.8	<1	0.7	107.0	0.16	<0.05	1.27	0.375	0.23	0.6	202
2406		54.0	0.002	0.02	10.95	34.7	<1	0.8	109.0	0.15	<0.05	1.28	0.332	0.24	0.6	188
2407		54.1	0.002	0.02	10.40	34.6	1	0.6	105.5	0.13	<0.05	1.20	0.308	0.24	0.5	181
2408		51.0	<0.002	0.01	9.18	34.2	<1	0.7	105.5	0.16	<0.05	1.37	0.353	0.23	0.6	183
2409		54.7	<0.002	0.02	14.90	33.9	<1	0.5	104.0	0.11	<0.05	1.12	0.266	0.24	0.5	177
2410		54.3	<0.002	0.02	15.05	35.1	<1	0.5	104.5	0.12	<0.05	1.22	0.280	0.22	0.5	181



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Sample Description	Method Analyte Units LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Ag-OG62 Ag ppm 1	Cu-OG62 Cu % 0.001	CRU-QC Pass2mm % 0.01	PUL-QC Pass75um % 0.01
2371		15.1	6.0	8930	90.5	302			
2372		0.1	1.9	21	1.6			90.7	
2373		0.4	16.6	98	43.3			93.3	
2374		0.3	16.5	97	46.7				
2375		0.4	18.2	104	53.9				
2376		0.3	17.3	120	48.4				
2377		0.3	19.7	99	68.4				
2378		0.3	14.6	127	28.7				
2379		0.4	15.3	98	38.4				
2380		0.3	15.7	100	41.3				
2381		0.5	17.1	143	57.4				
2382		0.4	18.4	121	50.7				
2383		0.4	18.1	113	49.7				
2384		0.4	14.4	161	31.9				
2385		0.5	17.5	128	40.7				
2386		0.3	16.8	106	46.5				
2387		0.3	17.2	103	48.1				
2388		0.5	16.5	128	41.7				
2389		0.3	16.8	83	45.3				
2390		0.3	16.9	83	45.2				
2391		14.5	5.6	8880	85.8	304			
2392		<0.1	2.0	12	1.4				
2393		0.4	15.7	94	42.1				
2394		0.4	17.0	104	40.1				
2395		1.8	14.2	110	36.3				
2396		0.3	15.8	98	40.6				
2397		0.2	13.7	90	36.4				
2398		0.4	16.1	102	43.5				
2399		0.5	17.6	121	45.7				
2400		0.5	17.6	126	45.8				
2401		0.4	15.7	116	43.8				
2402		0.3	15.2	103	42.1				
2403		0.4	13.6	152	40.0				
2404		0.4	15.2	184	43.3				
2405		0.4	18.1	154	51.9				
2406		1.1	16.8	131	47.5				
2407		0.3	15.4	101	41.7			85.1	
2408		0.4	16.7	130	46.6				
2409		0.3	14.3	95	37.7				
2410		0.3	14.3	97	37.4		98.4	85.4	



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Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	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 %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	1	0.05	0.2	0.01	
2411		0.07	>100	4.26	689	120	0.70	58.0	0.63	25.6	30.0	9.8	29	2.72	5100	2.13
2412		0.98	0.23	0.06	3.8	20	<0.05	0.12	32.2	0.04	0.90	1.2	3	<0.05	6.3	0.11
2413		1.94	34.1	7.28	915	140	0.63	5.96	7.47	0.11	19.70	162.0	165	1.29	60.9	6.12
2414		2.04	38.0	7.74	804	150	0.70	4.12	7.64	0.10	19.80	160.5	161	1.35	55.1	6.23
2415		1.89	31.0	7.22	615	130	0.66	2.90	7.49	0.14	15.25	155.0	228	1.28	72.1	6.06
2416		2.18	37.3	7.28	853	180	0.78	5.71	7.43	0.21	26.5	177.0	194	1.35	80.8	6.70
2417		1.88	42.1	7.74	652	150	0.67	3.77	7.39	0.12	16.75	129.5	168	1.19	69.1	5.84
2418		2.23	43.3	7.75	609	150	0.71	4.49	7.49	0.13	16.00	130.0	201	1.19	74.6	5.94
2419		1.38	46.6	7.49	685	140	0.71	10.20	7.43	0.13	15.40	139.0	204	1.18	74.8	5.91
2420		1.34	48.7	7.69	684	150	0.70	6.67	7.50	0.14	16.05	142.0	208	1.21	74.8	5.91
2421		2.10	44.2	7.32	549	140	0.70	3.24	7.25	0.14	16.35	134.5	196	1.23	68.1	5.98
2422		1.97	52.1	6.94	662	140	0.61	4.17	7.18	0.14	17.50	151.0	206	1.16	74.0	6.34
2423		1.80	55.0	7.01	708	160	0.64	4.70	7.21	0.15	15.65	210	187	1.12	88.3	6.23
2424		2.00	>100	7.41	937	190	0.64	13.40	6.65	0.28	17.85	216	172	1.32	160.0	6.03
2425		1.59	43.1	7.28	727	130	0.71	7.64	7.45	0.12	15.15	145.0	203	1.16	73.8	5.71
2426		2.23	34.9	7.27	490	140	0.73	3.87	7.23	0.13	15.05	142.0	216	1.21	73.4	5.81
2427		1.75	37.1	7.25	653	130	0.72	8.48	7.60	0.12	15.80	149.0	213	1.17	74.6	6.06
2428		1.66	29.7	7.30	589	130	0.68	2.88	7.51	0.13	15.20	160.5	241	1.19	70.2	6.06
2429		1.48	33.6	7.35	642	140	0.74	3.63	7.53	0.14	16.00	179.0	220	1.21	74.3	6.20
2430		1.41	34.9	6.98	654	140	0.76	2.90	7.42	0.14	12.20	181.5	247	1.08	76.4	6.04
2431		0.06	>100	4.29	717	670	0.77	60.7	0.64	26.3	30.8	10.3	42	2.59	5040	2.15
2432		1.04	0.22	0.08	3.0	30	0.06	0.09	34.1	0.04	0.97	1.0	2	<0.05	8.0	0.11
2433		2.30	75.2	7.11	832	180	0.65	5.68	7.04	0.13	20.0	162.5	168	1.19	89.8	6.03
2434		1.87	26.8	7.47	700	170	0.69	3.56	7.20	0.12	21.0	125.5	149	1.23	64.3	6.55
2435		1.90	45.3	7.42	761	160	0.63	4.00	7.15	0.13	19.75	131.5	183	1.14	79.8	6.64
2436		2.57	49.9	7.51	709	180	0.72	3.71	7.29	0.11	21.4	116.5	195	1.12	77.6	6.76
2437		2.13	59.6	7.58	1060	160	0.77	4.60	7.37	0.13	19.50	160.0	204	1.16	89.0	6.84
2438		2.29	56.4	7.42	826	160	0.69	3.94	7.20	0.13	14.65	148.5	199	1.10	74.7	6.24
2439		1.68	60.5	7.10	1010	140	0.66	5.19	7.39	0.14	15.00	190.0	227	1.14	86.8	6.22
2440		1.28	66.0	7.30	1065	150	0.70	5.07	7.63	0.17	15.90	199.5	228	1.16	89.3	6.44
2441		2.03	65.6	7.42	968	140	0.64	5.03	7.35	0.12	14.10	163.5	183	1.14	87.0	6.16
2442		1.73	>100	7.26	2940	160	0.54	34.1	7.59	0.28	19.50	575	187	1.23	275	6.86
2443		2.52	99.6	7.64	1325	170	0.69	13.85	7.60	0.16	22.1	264	182	1.16	127.5	6.67
2444		2.23	23.9	7.62	879	150	0.71	4.37	7.68	0.07	23.3	148.0	160	1.25	50.1	6.46
2445		1.82	30.2	7.65	1025	150	0.64	4.23	7.41	0.10	19.80	166.5	162	1.06	55.8	5.94
2446		2.31	48.1	7.65	692	160	0.70	3.49	7.01	0.12	15.30	116.5	174	1.10	69.1	5.96
2447		1.72	68.5	7.67	769	150	0.73	4.89	7.46	0.17	16.45	157.0	197	1.24	89.7	6.38
2448		2.08	68.4	7.04	909	130	0.64	10.15	7.56	0.11	13.50	204	222	1.09	93.8	6.12
2449		1.40	45.5	7.10	914	140	0.69	9.99	7.54	0.15	14.95	217	239	1.15	82.6	6.20
2450		1.25	52.4	7.04	894	140	0.73	9.83	7.37	0.13	13.25	213	234	1.06	80.3	6.07

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



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CERTIFICATE OF ANALYSIS SD19232567

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
2411		21.2	0.14	2.7	5.34	0.67	14.6	19.7	0.19	229	4.41	0.42	7.7	59.2	550	1010
2412		0.23	0.09	<0.1	0.008	0.01	1.1	1.1	2.09	120	0.15	0.02	0.1	0.7	50	1.4
2413		14.15	0.11	1.1	0.075	1.17	8.7	45.3	4.67	1370	1.67	1.64	1.5	130.0	220	81.9
2414		14.65	0.08	1.2	0.077	1.25	9.1	47.6	4.75	1400	2.07	1.81	1.6	131.0	210	73.7
2415		12.75	0.08	1.0	0.067	1.12	6.7	42.8	5.37	1430	0.71	1.58	1.5	170.0	140	88.0
2416		14.00	0.10	1.4	0.083	1.27	11.4	46.0	4.95	1560	0.73	1.80	2.4	142.5	280	94.9
2417		13.90	0.09	1.0	0.074	1.27	7.5	42.0	4.63	1350	1.85	1.81	1.5	129.5	170	81.1
2418		13.75	0.10	1.0	0.069	1.28	7.2	41.4	4.84	1400	1.85	1.79	1.4	146.5	170	82.5
2419		13.10	0.09	1.0	0.068	1.22	6.8	40.1	4.88	1410	1.16	1.75	1.4	170.0	160	91.7
2420		13.60	0.09	1.0	0.070	1.25	7.3	41.3	4.93	1420	1.21	1.80	1.4	170.0	160	91.0
2421		13.20	0.08	1.0	0.073	1.17	7.4	43.9	4.85	1400	0.46	1.67	1.5	147.5	160	90.6
2422		13.30	0.10	1.3	0.072	1.15	7.9	39.5	4.81	1470	0.55	1.59	2.1	148.0	200	74.9
2423		13.00	0.09	1.1	0.070	1.25	7.0	40.8	4.97	1490	0.49	1.57	1.8	158.0	150	85.8
2424		14.15	0.10	1.1	0.070	1.33	8.0	44.9	4.35	1320	2.27	1.71	1.5	163.5	200	229
2425		13.00	0.10	0.9	0.071	1.20	6.7	42.4	4.77	1360	1.08	1.64	1.4	145.5	140	79.8
2426		12.75	0.09	1.0	0.065	1.19	6.7	41.4	4.95	1370	0.65	1.66	1.4	157.0	150	83.4
2427		13.25	0.10	1.0	0.070	1.16	7.0	42.5	5.09	1440	0.66	1.62	1.6	158.0	160	80.0
2428		12.80	0.08	1.0	0.064	1.14	6.7	44.5	5.41	1450	0.56	1.61	1.5	172.0	140	80.3
2429		13.40	0.08	1.0	0.070	1.17	7.1	44.6	5.26	1450	0.51	1.64	1.6	165.0	160	80.7
2430		13.55	0.09	0.8	0.059	1.12	5.4	42.9	5.11	1440	0.92	1.61	1.5	169.5	170	88.5
2431		23.2	0.19	2.5	5.50	0.67	15.1	22.5	0.19	241	5.17	0.43	7.6	65.2	580	1060
2432		0.25	<0.05	<0.1	0.008	0.01	1.0	1.4	1.82	123	0.12	0.03	0.1	0.9	80	1.9
2433		15.05	0.08	1.3	0.084	1.23	8.3	40.7	4.12	1360	2.74	1.79	2.1	124.0	240	81.6
2434		15.55	0.07	1.2	0.085	1.30	8.4	42.8	4.46	1460	2.29	1.89	2.0	107.0	260	86.5
2435		15.00	0.10	1.3	0.079	1.24	7.7	40.7	4.75	1460	1.57	1.83	2.2	124.0	240	101.5
2436		16.00	0.10	1.4	0.080	1.28	8.7	41.4	4.75	1520	1.90	1.92	2.5	128.0	270	87.2
2437		14.50	0.18	1.4	0.079	1.25	8.2	41.8	4.93	1500	1.38	1.85	2.6	140.5	240	90.7
2438		15.30	0.12	1.1	0.071	1.25	6.3	43.6	4.84	1410	1.09	1.78	1.7	142.5	190	89.2
2439		14.05	0.08	0.9	0.075	1.10	6.8	41.5	5.11	1450	0.95	1.65	1.8	161.0	170	94.2
2440		14.60	0.10	1.0	0.075	1.13	6.6	42.1	5.29	1480	0.96	1.71	1.8	170.0	180	98.7
2441		14.60	0.08	1.0	0.068	1.21	6.3	41.8	4.93	1420	0.83	1.74	1.7	141.0	170	103.0
2442		15.40	0.10	1.1	0.070	1.31	7.8	46.4	4.86	1420	2.40	1.54	1.5	209	290	193.5
2443		16.25	0.10	1.4	0.077	1.31	8.9	44.9	4.65	1440	1.69	1.84	2.0	144.0	290	107.0
2444		16.05	0.08	1.3	0.089	1.27	9.2	47.0	4.56	1420	2.13	1.84	1.8	118.0	290	62.4
2445		15.20	0.10	1.1	0.076	1.28	7.8	43.7	4.45	1380	1.55	1.88	1.6	117.0	220	83.3
2446		15.30	0.08	1.0	0.077	1.25	6.5	42.1	4.54	1360	1.48	1.91	1.6	120.0	190	91.2
2447		14.15	0.12	1.0	0.073	1.29	7.0	39.9	5.13	1420	1.17	1.74	1.8	151.0	170	97.3
2448		13.55	0.09	0.9	0.074	1.12	6.0	40.5	5.13	1460	1.37	1.60	1.6	166.0	150	89.4
2449		14.50	0.10	1.0	0.081	1.17	6.7	42.0	5.15	1500	0.96	1.65	1.8	187.0	180	95.2
2450		13.15	0.08	0.9	0.070	1.15	5.9	38.7	5.03	1460	0.92	1.62	1.6	179.5	160	87.1



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CERTIFICATE OF ANALYSIS SD19232567

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units LOD	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
2411		27.5	<0.002	2.08	85.3	4.1	32	5.8	448	0.61	40.2	6.15	0.216	1.74	2.5	32
2412		0.4	<0.002	0.01	0.15	0.2	1	<0.2	75.0	<0.05	<0.05	0.06	0.005	<0.02	0.1	1
2413		53.7	0.002	0.02	14.00	32.5	1	0.5	100.0	0.11	<0.05	1.33	0.253	0.25	0.6	174
2414		55.8	0.003	0.02	12.70	33.0	<1	0.6	108.5	0.12	<0.05	1.34	0.264	0.23	0.6	177
2415		49.7	<0.002	0.01	12.90	36.2	1	0.5	95.1	0.11	<0.05	1.04	0.280	0.22	0.4	181
2416		57.1	<0.002	0.02	11.50	37.7	<1	0.6	110.5	0.17	<0.05	1.35	0.386	0.25	0.6	209
2417		56.2	0.002	0.02	12.75	33.8	<1	0.5	109.5	0.11	<0.05	1.18	0.257	0.25	0.6	171
2418		55.7	0.002	0.02	15.00	34.4	<1	0.5	105.0	0.11	<0.05	1.14	0.263	0.25	0.5	177
2419		53.3	<0.002	0.02	16.70	33.9	<1	0.5	102.0	0.10	<0.05	1.13	0.264	0.23	0.6	180
2420		55.1	0.002	0.02	16.90	34.4	<1	0.5	105.5	0.11	<0.05	1.08	0.268	0.24	0.5	182
2421		52.5	<0.002	0.01	12.65	35.3	<1	0.5	101.5	0.11	<0.05	1.12	0.275	0.25	0.5	183
2422		51.9	<0.002	0.01	12.65	36.1	<1	0.6	101.5	0.15	<0.05	1.19	0.355	0.22	0.5	203
2423		56.4	<0.002	0.01	13.95	38.7	<1	0.5	99.5	0.13	<0.05	1.07	0.339	0.24	0.4	204
2424		60.1	<0.002	0.04	28.3	30.9	1	0.7	111.5	0.12	<0.05	1.28	0.237	0.26	0.6	172
2425		53.4	0.002	0.02	14.65	34.3	<1	0.4	97.5	0.10	<0.05	1.05	0.261	0.23	0.5	176
2426		52.9	<0.002	0.02	13.20	34.8	<1	0.5	99.2	0.11	<0.05	1.07	0.267	0.23	0.5	179
2427		51.5	<0.002	0.01	14.00	36.6	1	0.5	97.9	0.11	<0.05	1.08	0.290	0.22	0.5	191
2428		50.3	<0.002	0.01	13.75	37.0	<1	0.5	96.7	0.11	<0.05	1.00	0.285	0.21	0.5	188
2429		52.9	<0.002	0.01	14.00	37.8	<1	0.5	102.0	0.11	<0.05	1.07	0.292	0.23	0.5	193
2430		51.1	<0.002	0.02	12.80	39.4	1	0.5	102.0	0.10	<0.05	0.86	0.277	0.23	0.4	192
2431		28.8	<0.002	2.16	87.2	4.6	34	6.0	462	0.57	40.9	5.91	0.214	1.74	2.5	34
2432		0.3	<0.002	0.01	0.19	0.3	1	<0.2	80.7	<0.05	0.05	0.06	0.005	<0.02	0.2	2
2433		59.6	0.002	0.03	16.65	35.9	<1	0.6	120.0	0.14	<0.05	1.26	0.314	0.24	0.6	185
2434		62.3	<0.002	0.02	12.40	39.3	<1	0.6	111.5	0.14	<0.05	1.24	0.334	0.26	0.6	202
2435		57.6	0.002	0.02	13.90	39.6	<1	0.7	110.5	0.15	<0.05	1.29	0.366	0.23	0.6	210
2436		60.3	0.002	0.02	13.15	42.7	<1	0.6	122.0	0.18	<0.05	1.25	0.390	0.24	0.6	214
2437		53.1	0.002	0.02	16.20	38.8	<1	0.7	112.0	0.17	<0.05	1.29	0.400	0.24	0.5	220
2438		53.7	<0.002	0.02	13.65	40.5	1	0.5	117.0	0.12	<0.05	1.00	0.285	0.25	0.5	194
2439		53.6	<0.002	0.02	14.30	42.4	1	0.5	106.5	0.13	0.05	0.97	0.310	0.22	0.4	198
2440		54.2	<0.002	0.02	15.35	43.1	<1	0.5	109.0	0.12	<0.05	1.00	0.310	0.23	0.4	204
2441		59.5	<0.002	0.02	15.00	41.6	<1	0.5	106.0	0.12	<0.05	1.07	0.288	0.23	0.5	193
2442		63.8	<0.002	0.07	43.6	37.7	<1	2.9	102.0	0.12	<0.05	1.13	0.272	0.28	0.6	191
2443		60.7	<0.002	0.03	22.1	38.6	<1	0.9	117.0	0.14	<0.05	1.30	0.321	0.28	0.6	201
2444		62.3	<0.002	0.02	11.05	37.7	<1	0.6	112.5	0.13	<0.05	1.34	0.295	0.23	0.7	192
2445		59.1	0.002	0.01	11.60	37.5	<1	0.5	114.0	0.12	<0.05	1.09	0.273	0.23	0.5	181
2446		49.5	0.002	0.02	13.30	37.1	<1	0.5	119.5	0.11	<0.05	0.96	0.265	0.21	0.5	180
2447		59.5	<0.002	0.02	15.15	38.1	<1	0.6	106.5	0.11	<0.05	1.10	0.305	0.25	0.5	199
2448		53.9	0.002	0.02	14.95	41.8	1	0.5	96.5	0.11	<0.05	0.94	0.303	0.23	0.5	199
2449		56.8	<0.002	0.02	15.30	43.2	1	0.5	101.5	0.13	<0.05	1.05	0.309	0.24	0.5	201
2450		53.6	<0.002	0.02	14.15	40.3	<1	0.5	94.8	0.10	<0.05	0.94	0.305	0.24	0.4	197



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Cu-OG62	CRU-QC	PUL-QC
		W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Ag ppm 1	Cu % 0.001	Pass2mm % 0.01	Pass75um % 0.01
2411		13.0	6.2	4140	86.2	121			
2412		<0.1	1.9	7	1.5				
2413		0.3	15.9	97	38.9				
2414		0.3	16.1	94	43.0				
2415		0.3	13.8	102	33.6				
2416		0.4	19.5	128	51.2				
2417		0.2	14.7	90	37.6				
2418		0.3	14.1	96	35.4				
2419		0.6	14.3	99	35.0				
2420		0.4	14.3	100	34.9				
2421		0.3	14.3	95	35.7				
2422		0.3	16.4	101	43.9				
2423		0.3	14.6	108	36.5				
2424		0.3	14.9	147	38.7	111			
2425		0.2	14.2	87	33.1				
2426		0.3	13.7	94	34.2				
2427		0.3	14.1	93	34.4				
2428		0.3	13.5	97	33.3				
2429		0.3	14.5	96	35.6				
2430		0.2	12.3	99	32.1				
2431		11.5	6.2	4220	89.1	117			
2432		<0.1	2.2	9	2.0				
2433		0.2	16.6	98	52.2				
2434		0.2	17.5	102	49.0				
2435		0.3	17.5	103	51.0				
2436		0.3	18.4	101	58.1				
2437		0.3	18.3	101	49.3	69			
2438		0.2	14.0	100	43.7				
2439		0.2	14.1	103	36.5				
2440		0.2	14.6	107	38.7				
2441		0.2	13.9	101	40.2				
2442		0.2	15.9	147	44.7	195			
2443		0.3	18.6	109	53.6				
2444		0.2	18.0	92	53.0				
2445		0.3	15.3	91	43.4				
2446		0.2	13.7	94	38.3				
2447		0.3	16.0	101	37.7	66			
2448		0.2	13.9	97	32.7				
2449		0.3	14.6	103	37.9				
2450		0.2	13.4	99	33.7			99.6	86.4



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CERTIFICATE OF ANALYSIS SD19232567

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
2151		0.08	>100	3.95	1950	520	0.73	155.0	0.33	57.7	25.5	15.5	32	1.63	9870	2.79
2152		1.30	0.40	0.07	5.5	20	<0.05	0.15	33.8	0.06	0.97	1.3	3	<0.05	10.0	0.10
2153		1.80	65.5	7.29	1010	130	0.65	4.99	7.87	0.15	13.60	265	273	1.20	86.6	6.29
2154		2.02	42.0	7.07	922	160	0.62	5.03	7.71	0.17	14.60	239	216	1.06	87.3	6.49
2155		1.86	>100	7.32	945	140	0.78	12.00	7.03	0.13	28.5	258	165	1.01	155.5	5.72
2156		1.90	21.1	7.29	685	190	0.61	3.50	7.30	0.10	23.2	128.5	159	1.10	49.7	6.33
2157		2.07	31.9	7.60	503	190	0.59	4.58	7.59	0.12	18.75	113.5	188	1.19	68.0	5.90
2158		1.95	19.60	7.26	734	170	0.66	4.08	7.53	0.09	19.45	118.5	156	1.13	46.1	6.14
2159		1.74	29.9	7.19	864	160	0.64	3.37	7.13	0.12	19.90	124.5	190	1.27	78.1	6.35
2160		1.27	30.1	7.16	778	160	0.70	3.74	7.09	0.14	17.40	118.0	192	1.24	79.9	6.26
2161		2.23	42.3	7.42	813	170	0.57	9.64	7.43	0.16	15.50	158.0	210	1.11	87.3	6.31
2162		1.90	89.7	7.24	1035	160	0.67	7.95	7.21	0.13	20.2	151.5	205	1.15	79.8	6.65
2163		2.21	42.3	7.56	521	170	0.58	4.75	7.74	0.14	13.75	152.5	241	1.19	80.2	6.10
2164		2.25	38.3	7.55	405	170	0.60	3.45	7.36	0.14	14.20	128.5	203	1.13	78.4	6.24
2165		1.86	44.0	7.50	449	180	0.61	3.21	7.47	0.13	13.85	125.0	218	1.14	69.6	6.12
2166		2.04	88.0	6.97	443	130	0.78	4.89	5.30	0.10	25.2	156.5	163	0.92	99.0	5.10
2167		1.74	64.0	7.04	526	150	0.65	4.92	6.37	0.12	20.3	122.5	168	1.07	82.1	5.57
2168		1.87	17.95	7.29	322	160	0.50	2.77	6.79	0.14	15.25	71.5	174	1.07	62.5	5.63
2169		1.54	24.7	7.08	333	160	0.61	2.33	6.63	0.10	18.70	77.6	167	1.06	62.8	5.77
2170		1.66	22.0	7.27	333	170	0.65	2.20	6.75	0.10	18.70	77.5	165	1.05	62.5	5.93
2171		0.07	>100	4.59	732	90	0.78	66.3	0.67	29.2	35.8	11.2	43	3.08	5460	2.30
2172		1.44	0.28	0.07	2.7	30	0.06	0.14	32.6	0.05	1.03	0.9	2	<0.05	9.2	0.12
2173		2.27	25.5	7.56	945	180	0.71	5.42	7.56	0.15	16.70	138.5	172	1.14	66.4	6.49
2174		2.15	38.0	7.08	844	170	0.55	5.37	7.18	0.14	15.20	104.5	179	1.13	75.1	6.29
2175		2.36	>100	7.10	1420	170	0.50	17.80	7.30	0.15	15.45	294	185	1.25	86.9	6.40
2176		2.06	11.25	6.60	233	340	0.83	2.08	3.39	0.07	35.2	45.0	145	0.90	56.2	3.89
2177		1.82	38.7	7.16	412	170	0.61	6.38	6.95	0.14	18.85	102.5	169	1.24	78.1	5.91



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CERTIFICATE OF ANALYSIS SD19232567

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		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
2151		24.7	0.23	2.4	12.10	0.62	10.6	21.1	0.08	141	6.77	0.41	7.5	111.0	540	2030
2152		0.25	0.05	<0.1	0.010	0.01	1.1	1.3	1.70	117	0.16	0.02	0.1	1.0	70	2.6
2153		13.50	0.06	0.9	0.067	1.14	6.0	42.1	5.67	1500	0.73	1.59	1.5	203	160	95.0
2154		13.80	0.08	1.0	0.065	1.19	6.4	38.0	5.19	1500	0.58	1.56	2.0	163.5	180	81.6
2155		15.35	0.09	1.3	0.085	1.01	11.8	41.5	3.97	1240	2.33	2.13	1.9	145.5	300	78.8
2156		15.75	0.07	1.5	0.076	1.21	9.2	41.8	4.15	1380	1.72	1.88	2.1	108.0	320	66.1
2157		14.95	0.09	1.1	0.072	1.42	7.4	43.9	4.49	1440	1.52	1.80	1.4	119.5	200	92.0
2158		15.20	0.08	1.2	0.070	1.31	7.6	43.0	4.29	1400	1.98	1.75	1.6	106.5	250	62.7
2159		14.90	0.09	1.2	0.083	1.22	7.8	43.9	4.81	1430	2.57	1.77	1.9	131.0	220	85.4
2160		14.50	0.09	1.1	0.080	1.23	7.3	43.0	4.79	1430	2.25	1.75	1.9	130.0	210	85.4
2161		14.05	0.09	1.0	0.068	1.30	6.8	40.6	5.04	1470	1.20	1.72	1.8	145.5	190	89.0
2162		14.90	0.09	1.2	0.087	1.22	7.9	41.4	4.84	1490	1.83	1.81	2.3	137.0	250	92.1
2163		13.80	0.10	0.9	0.070	1.30	5.9	42.7	5.49	1480	0.59	1.63	1.5	167.0	160	88.0
2164		14.60	0.08	1.0	0.066	1.29	6.3	42.7	5.18	1470	0.53	1.68	1.7	148.5	170	89.9
2165		14.75	0.09	1.0	0.075	1.35	6.1	43.8	5.17	1480	0.42	1.70	1.6	151.0	180	87.5
2166		14.00	0.09	1.3	0.059	0.94	11.7	34.6	3.63	1020	1.92	2.25	2.1	121.5	250	46.2
2167		14.20	0.10	1.2	0.067	1.16	9.3	37.9	4.08	1220	1.42	1.88	1.9	118.5	200	61.5
2168		13.85	0.10	1.1	0.059	1.26	6.7	36.6	4.17	1260	0.91	1.72	1.5	107.5	170	62.6
2169		14.65	0.11	1.4	0.069	1.24	8.1	37.1	4.05	1260	1.09	1.80	2.1	106.0	200	58.2
2170		14.50	0.10	1.3	0.068	1.27	8.3	36.1	4.15	1300	1.04	1.85	2.0	106.0	210	58.7
2171		23.7	0.18	3.0	6.16	0.73	17.5	21.1	0.20	243	5.21	0.46	8.5	71.0	590	1100
2172		0.24	0.09	0.1	0.010	0.01	1.2	1.3	1.61	103	0.11	0.02	0.1	0.9	60	2.5
2173		14.35	0.07	1.2	0.067	1.39	7.3	39.0	4.78	1480	1.53	1.75	1.8	119.5	170	71.7
2174		13.25	0.08	1.1	0.069	1.32	6.6	35.9	4.69	1420	1.37	1.61	1.8	117.0	160	76.0
2175		13.50	0.09	1.1	0.068	1.38	6.8	36.6	4.67	1440	1.01	1.59	1.9	151.5	170	78.0
2176		14.10	0.11	2.4	0.042	1.27	14.5	21.2	2.23	697	1.71	2.31	3.7	78.1	190	42.7
2177		14.30	0.08	1.1	0.074	1.35	8.2	40.5	4.28	1360	1.13	1.73	1.6	114.0	180	96.0



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CERTIFICATE OF ANALYSIS SD19232567

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
2151		24.5	0.002	3.71	220	4.4	63	13.4	482	0.57	59.9	4.96	0.200	4.27	2.6	32
2152		0.3	<0.002	<0.01	0.26	0.2	1	<0.2	83.9	<0.05	<0.05	0.06	0.005	<0.02	0.1	2
2153		54.4	<0.002	0.02	15.45	42.4	1	0.5	102.0	0.11	<0.05	0.93	0.291	0.22	0.4	200
2154		58.0	<0.002	0.02	12.40	42.2	<1	0.6	107.5	0.12	<0.05	1.02	0.349	0.24	0.4	213
2155		50.8	0.002	0.04	16.70	31.4	<1	0.7	109.0	0.15	<0.05	1.69	0.272	0.21	0.8	166
2156		59.9	0.002	0.02	8.69	37.0	1	0.7	106.0	0.15	<0.05	1.67	0.308	0.25	0.9	181
2157		66.7	<0.002	0.02	12.90	37.7	<1	0.9	116.5	0.11	<0.05	1.08	0.263	0.28	0.5	186
2158		59.4	<0.002	0.01	9.51	37.2	<1	0.8	114.5	0.12	<0.05	1.24	0.287	0.24	0.6	190
2159		59.4	<0.002	0.02	12.40	39.5	<1	0.5	109.0	0.13	<0.05	1.11	0.323	0.26	0.5	197
2160		62.2	<0.002	0.02	12.05	40.2	<1	0.5	107.0	0.13	<0.05	1.12	0.319	0.27	0.5	195
2161		63.4	<0.002	0.02	11.95	40.3	<1	0.6	110.5	0.12	<0.05	1.02	0.317	0.25	0.5	201
2162		58.3	<0.002	0.02	13.35	41.1	1	0.6	113.5	0.16	<0.05	1.25	0.370	0.24	0.6	213
2163		62.7	0.002	0.02	10.60	41.0	1	0.5	109.5	0.11	<0.05	0.89	0.279	0.28	0.4	194
2164		66.1	<0.002	0.02	10.55	42.1	1	0.5	113.5	0.12	<0.05	1.07	0.303	0.27	0.4	195
2165		64.5	<0.002	0.01	10.05	41.5	1	0.5	115.5	0.11	<0.05	1.02	0.282	0.28	0.4	191
2166		40.7	<0.002	0.03	11.20	29.8	<1	0.6	115.0	0.16	<0.05	1.99	0.268	0.20	0.8	150
2167		51.1	<0.002	0.02	10.35	34.2	<1	0.6	112.0	0.15	<0.05	1.45	0.280	0.24	0.6	169
2168		51.4	<0.002	0.02	7.64	34.0	<1	0.5	115.0	0.12	<0.05	1.10	0.258	0.25	0.5	170
2169		54.4	<0.002	0.02	7.10	34.9	<1	0.6	108.5	0.16	<0.05	1.54	0.286	0.24	0.7	169
2170		53.7	<0.002	0.02	6.93	34.9	1	0.6	108.5	0.16	<0.05	1.48	0.291	0.25	0.7	171
2171		31.0	<0.002	2.25	94.9	4.7	37	6.6	486	0.66	44.9	7.66	0.230	1.96	2.9	34
2172		0.4	<0.002	<0.01	0.23	0.3	1	<0.2	78.2	<0.05	0.06	0.08	0.005	<0.02	0.1	2
2173		56.9	<0.002	0.02	10.70	38.4	<1	1.1	113.0	0.15	<0.05	1.20	0.319	0.27	0.5	200
2174		58.2	<0.002	0.02	11.15	38.7	<1	1.4	108.5	0.13	<0.05	1.21	0.328	0.25	0.5	200
2175		61.3	<0.002	0.03	35.3	38.5	<1	0.7	109.5	0.14	0.13	1.22	0.339	0.27	0.5	204
2176		43.9	<0.002	0.03	4.25	18.2	<1	0.7	252	0.26	<0.05	3.49	0.270	0.23	1.0	106
2177		59.1	<0.002	0.02	14.20	35.8	<1	0.6	109.0	0.12	<0.05	1.27	0.270	0.27	0.6	178



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CERTIFICATE OF ANALYSIS SD19232567

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Cu-OG62	CRU-QC	PUL-QC
		W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Ag ppm 1	Cu % 0.001	Pass2mm % 0.01	Pass75um % 0.01
2151		13.7	5.6	9140	91.1	287			
2152		<0.1	2.0	11	1.4				
2153		0.3	13.4	107	32.6				
2154		0.3	14.8	107	40.9				
2155		0.3	17.7	91	50.2	132			
2156		0.3	19.7	87	61.2				
2157		0.3	16.1	95	40.6				
2158		0.3	16.2	85	47.7				
2159		0.2	16.5	103	45.5				
2160		0.2	15.8	102	44.0				
2161		0.3	14.4	105	39.1				93.0
2162		0.2	17.6	100	47.2				96.8
2163		0.3	13.2	105	32.3				
2164		0.2	14.1	106	37.5				
2165		0.3	13.4	107	38.0				
2166		0.4	14.6	71	46.9				
2167		0.3	15.3	82	42.3				
2168		0.2	14.1	92	38.5				
2169		0.3	17.1	83	47.5				
2170		0.3	16.7	85	46.9				
2171		14.9	7.1	4380	94.6	111			
2172		<0.1	2.1	9	1.7				
2173		0.3	15.4	98	40.8	27			
2174		0.3	15.0	95	36.4				
2175		0.5	15.3	97	38.3	696			
2176		2.0	12.1	66	82.6				
2177		0.3	16.6	94	39.1				



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	CERTIFICATE COMMENTS												
Applies to Method:	<p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>REE's may not be totally soluble in this method. ME-MS61</p>												
Applies to Method:	<p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">DRY-21</td> <td style="width: 15%;">LOG-22</td> </tr> <tr> <td>LOG-24</td> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> </tr> <tr> <td>WEI-21</td> <td></td> <td></td> <td></td> </tr> </table>	CRU-31	CRU-QC	DRY-21	LOG-22	LOG-24	PUL-31	PUL-QC	SPL-21	WEI-21			
CRU-31	CRU-QC	DRY-21	LOG-22										
LOG-24	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 style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Ag-OG62</td> <td style="width: 33%;">Cu-OG62</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 15%;">ME-OG62</td> </tr> </table>	Ag-OG62	Cu-OG62	ME-MS61	ME-OG62								
Ag-OG62	Cu-OG62	ME-MS61	ME-OG62										



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 Plus Appendix Pages
 Finalized Date: 1-JUN-2019
 Account: BMRPLLBW

CERTIFICATE SD19121595

Project: ODM Infill Samples
 P.O. No.: ODM#1631
 This report is for 20 Pulp samples submitted to our lab in Sudbury, ON, Canada on 21-MAY-2019.
 The following have access to data associated with this certificate:

PETER DOYLE FRANK PLOEGER	MIKE HENDRICKSON IAN PRINGLE	DAVID HOZJAN (ODM)
------------------------------	---------------------------------	--------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
Ag-OG62	Ore Grade Ag - Four Acid	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Ag-GRA21	Ag 30g FA-GRAV finish	WST-SIM
As-OG62	Ore Grade As - Four Acid	
ME-MS61	48 element four acid 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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 Account: BMRPLLWB

Project: ODM Infill Samples

CERTIFICATE OF ANALYSIS SD19121595

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Recvd Wt. kg	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 %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
Y952607		0.06	>100	1.46	8730	20	0.45	54.9	10.45	0.24	27.8	1280	426	0.35	201	10.40
Y952608		0.15	>100	1.34	>10000	10	0.40	74.1	9.71	0.27	21.3	3080	506	0.31	250	10.45
Y952609		0.12	>100	1.42	>10000	20	0.47	55.5	9.97	0.28	22.7	2420	459	0.33	189.5	11.10
Y952610		0.14	>100	1.67	7040	20	0.58	45.8	9.96	0.19	26.9	1195	407	0.37	132.5	10.20
Y952611		0.08	>100	1.32	>10000	20	0.43	125.5	9.40	0.20	29.1	1800	395	0.32	230	10.80
Y952612		0.07	>100	1.44	4930	20	0.44	19.85	9.79	0.18	26.6	727	353	0.34	120.0	10.75
Y952613		0.07	>100	1.63	3170	20	0.54	15.20	10.60	0.20	27.4	535	379	0.36	95.8	10.00
Y952614		0.02	46.8	1.70	2340	20	0.59	11.55	10.60	0.24	28.7	394	360	0.42	107.0	9.82
Y952615		<0.02	>100	1.60	4390	20	0.50	43.8	10.20	0.39	33.3	759	391	0.40	424	9.88
Y952616		<0.02	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
Y952617		0.11	>100	1.44	>10000	20	0.49	44.9	10.10	0.32	26.9	1670	394	0.35	250	10.60
Y952618		0.09	>100	1.34	>10000	20	0.43	786	8.81	0.28	30.3	6590	334	0.33	562	11.35
Y952619		0.09	>100	1.32	>10000	20	0.45	631	8.75	0.29	32.0	6160	341	0.32	500	11.65
Y952620		0.08	>100	1.51	>10000	20	0.51	44.9	9.88	0.23	30.4	1810	324	0.36	246	10.50
Y952621		0.08	>100	1.38	>10000	20	0.50	71.4	9.53	0.22	39.3	2620	319	0.39	385	11.55
Y952622		0.04	>100	1.51	5860	20	0.52	25.6	9.88	0.33	33.9	903	301	0.47	148.5	10.55
Y952623		0.07	>100	1.71	8210	30	0.58	37.1	10.55	0.25	41.0	1010	327	0.52	175.5	11.70
Y952624		0.04	>100	1.52	>10000	40	0.52	36.6	9.39	0.19	36.6	1095	309	0.44	216	11.45
Y952625		0.05	>100	1.53	7500	20	0.47	31.1	9.92	0.23	31.8	993	356	0.48	162.5	10.70
Y952626		<0.02	>100	2.07	6710	30	0.83	142.5	10.20	1.53	119.0	1420	377	0.57	1885	11.10



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 Finalized Date: 1-JUN-2019
 Account: BMRPLLWB

Project: ODM Infill Samples

CERTIFICATE OF ANALYSIS SD19121595

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		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
Y952607		5.67	0.08	1.9	0.094	0.08	11.9	12.3	9.08	3170	1.01	0.23	9.2	317	90	59.1
Y952608		5.02	0.07	2.1	0.098	0.06	9.6	11.3	9.29	3490	1.62	0.21	12.1	495	80	76.6
Y952609		5.39	0.07	2.7	0.097	0.08	9.6	12.2	8.86	4140	1.47	0.22	17.1	425	90	97.3
Y952610		5.99	0.07	2.7	0.103	0.12	11.8	13.6	8.52	3310	1.31	0.27	12.7	303	110	52.8
Y952611		5.38	0.08	2.8	0.104	0.07	12.6	11.4	8.26	3940	1.97	0.20	17.9	365	80	76.1
Y952612		5.60	0.08	2.7	0.101	0.08	11.5	12.3	8.72	3510	1.60	0.22	13.2	271	90	53.7
Y952613		6.10	0.08	2.2	0.104	0.10	12.1	13.6	8.88	2880	1.58	0.26	6.9	254	100	50.7
Y952614		6.07	0.08	2.3	0.116	0.14	12.5	14.2	8.69	2780	1.26	0.28	6.5	227	120	43.0
Y952615		6.04	0.09	2.4	0.119	0.12	14.7	14.0	8.60	2580	2.13	0.25	5.6	295	120	92.9
Y952616		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
Y952617		5.50	0.09	2.7	0.101	0.09	11.2	12.7	8.54	3920	1.70	0.22	15.2	328	80	98.6
Y952618		5.21	0.09	3.2	0.113	0.08	13.3	11.3	7.19	4160	4.69	0.21	17.0	765	90	159.0
Y952619		5.36	0.10	3.4	0.110	0.07	14.4	11.5	7.04	4440	4.20	0.20	19.9	728	100	164.5
Y952620		5.93	0.09	2.6	0.115	0.09	13.4	13.2	7.97	3670	1.84	0.23	14.5	345	100	95.2
Y952621		5.53	0.10	3.7	0.111	0.09	16.9	12.6	7.37	4520	3.50	0.22	22.1	381	100	100.5
Y952622		6.35	0.07	3.2	0.109	0.11	15.3	16.1	7.86	3460	2.84	0.24	14.7	265	100	52.8
Y952623		7.13	0.06	4.0	0.120	0.13	18.6	18.7	7.88	4120	2.91	0.28	20.0	270	140	59.5
Y952624		6.08	0.07	4.1	0.108	0.11	16.2	15.8	7.27	4530	3.99	0.25	22.2	244	130	59.1
Y952625		6.18	0.05	3.3	0.116	0.12	14.1	16.4	7.71	3900	2.89	0.25	16.3	265	110	61.0
Y952626		9.47	0.13	12.9	0.259	0.15	52.2	19.1	6.99	3300	10.30	0.24	19.2	392	210	215



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 Account: BMRPLLWB

Project: ODM Infill Samples

CERTIFICATE OF ANALYSIS SD19121595

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		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
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
Y952607		3.6	<0.002	0.02	61.5	82.4	1	1.2	19.8	0.46	<0.05	1.02	1.415	0.03	0.4	441
Y952608		2.9	<0.002	0.04	147.0	77.6	1	1.2	15.8	0.58	<0.05	0.94	1.660	0.03	0.5	414
Y952609		3.4	<0.002	0.04	143.5	80.7	<1	1.8	18.3	0.84	<0.05	1.06	2.31	0.03	0.5	481
Y952610		5.1	0.002	0.03	63.3	80.2	1	1.3	23.4	0.62	<0.05	1.58	1.675	0.03	0.8	433
Y952611		3.1	<0.002	0.05	108.5	77.3	1	1.5	18.7	0.86	<0.05	1.28	2.30	0.03	0.7	488
Y952612		3.7	<0.002	0.03	43.3	80.7	1	1.3	19.5	0.66	<0.05	1.31	1.860	0.03	0.7	462
Y952613		4.3	0.002	0.02	34.1	83.3	1	1.0	24.0	0.40	<0.05	1.36	1.175	0.04	0.7	415
Y952614		6.1	<0.002	0.02	22.8	84.2	1	1.2	21.8	0.37	<0.05	1.55	1.080	0.05	0.8	402
Y952615		5.3	<0.002	0.11	68.6	80.8	1	1.3	20.2	0.32	<0.05	1.86	0.958	0.05	0.9	385
Y952616		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
Y952617		4.1	<0.002	0.03	89.8	81.2	1	1.4	19.8	0.72	<0.05	1.24	2.06	0.04	0.6	492
Y952618		3.6	0.002	0.12	296	72.5	1	6.6	21.8	0.72	0.05	1.34	2.60	0.04	0.8	497
Y952619		3.5	0.004	0.12	295	72.1	1	2.6	22.1	0.80	0.05	1.43	3.25	0.03	0.9	528
Y952620		4.0	0.003	0.05	79.5	80.6	1	2.0	24.1	0.69	<0.05	1.33	2.01	0.03	0.7	483
Y952621		4.4	0.002	0.05	122.5	78.3	1	1.8	19.9	1.05	<0.05	1.72	3.30	0.04	0.9	551
Y952622		5.7	<0.002	0.03	41.5	78.3	1	1.5	19.4	0.79	<0.05	1.86	1.925	0.05	1.0	474
Y952623		6.4	0.003	0.03	49.1	81.9	1	2.3	25.1	1.11	<0.05	2.25	2.60	0.05	1.2	567
Y952624		5.3	0.002	0.03	64.5	71.5	1	2.1	18.8	1.28	<0.05	2.11	3.41	0.04	1.3	581
Y952625		5.8	0.003	0.03	52.3	74.9	<1	1.7	20.5	0.96	<0.05	1.85	2.29	0.05	1.0	507
Y952626		7.4	0.008	0.37	186.0	74.0	1	2.5	133.0	1.53	0.08	12.00	1.960	0.14	4.1	454



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 Account: BMRPLLW

Project: ODM Infill Samples

CERTIFICATE OF ANALYSIS SD19121595

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Ag-OG62 Ag ppm 1	As-OG62 As % 0.001	Ag-GRA21 Ag ppm 5
Y952607		0.6	25.3	118	67.0	309		
Y952608		0.6	22.8	112	79.3	841	1.920	
Y952609		0.8	24.3	121	100.0	345	1.400	
Y952610		0.7	27.1	96	105.0	203		
Y952611		0.8	25.1	98	106.0	685	1.325	
Y952612		0.7	25.7	95	99.1	352		
Y952613		0.6	26.6	99	81.2	144		
Y952614		0.5	29.1	121	92.3			
Y952615		0.5	29.2	159	93.4	500		
Y952616		NSS	NSS	NSS	NSS			
Y952617		0.9	27.2	123	96.4	753	1.265	
Y952618		1.1	24.6	110	115.0	>1500	4.27	8180
Y952619		1.6	25.5	107	128.5	>1500	4.06	8280
Y952620		0.8	27.0	99	98.3	747	1.380	
Y952621		1.1	28.6	97	138.5	482	2.25	
Y952622		1.1	27.3	137	118.5	124		
Y952623		1.4	31.0	120	143.5	129		
Y952624		1.4	28.7	103	149.0	151	1.130	
Y952625		1.2	27.4	112	115.5	212		
Y952626		377	49.3	458	469	1260		



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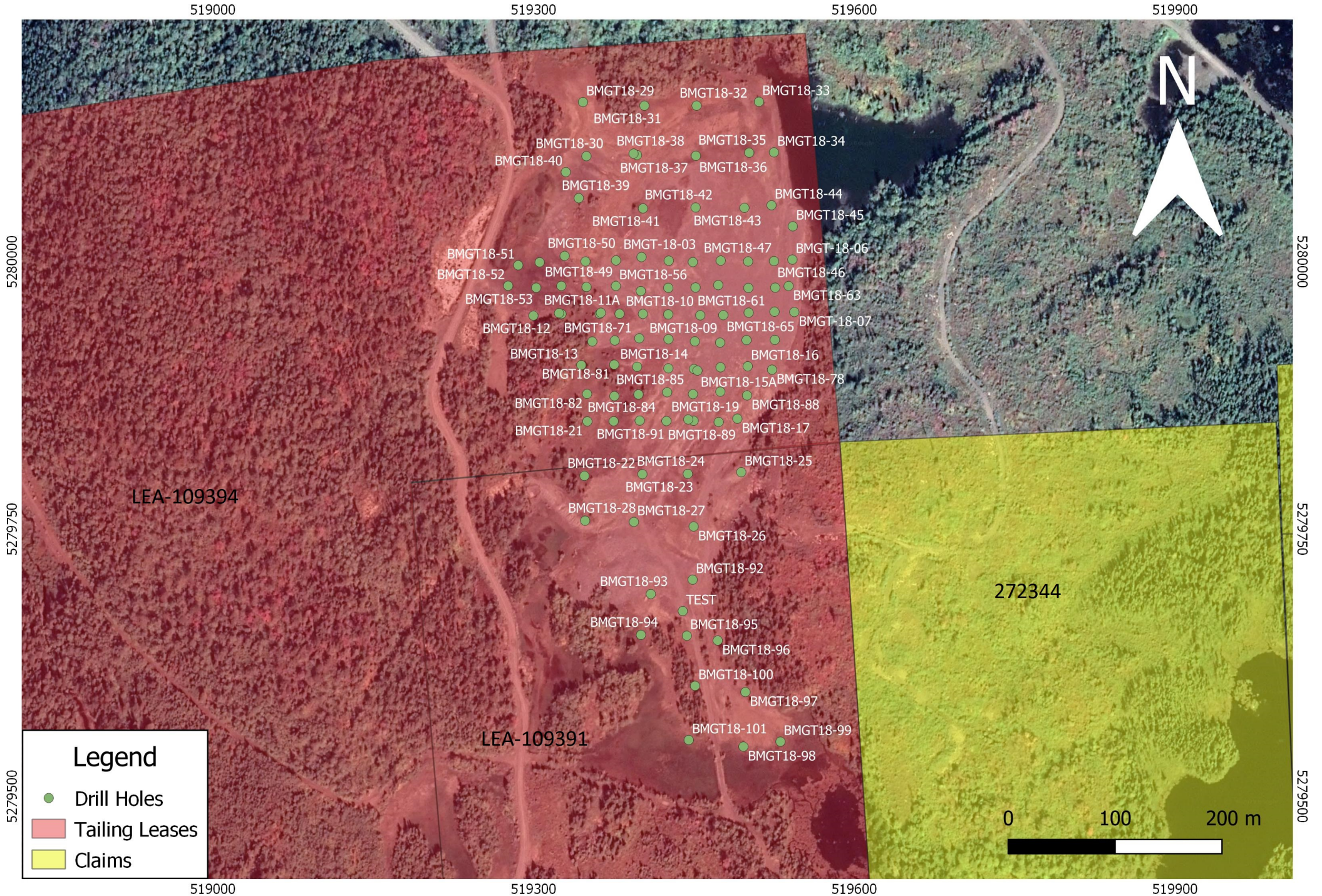
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Project: ODM Infill Samples

CERTIFICATE OF ANALYSIS SD19121595

CERTIFICATE COMMENTS	
	ANALYTICAL COMMENTS
Applies to Method:	NSS is non-sufficient sample. ALL METHODS
Applies to Method:	REE's may not be totally soluble in this method. ME-MS61
	LABORATORY ADDRESSES
Applies to Method:	Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada. LOG-23 WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Ag-GRA21 Ag-OG62 As-OG62 ME-MS61 ME-OG62 PUL-31



519000

519300

519600

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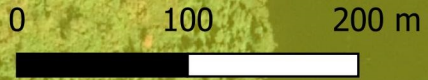
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LEA-109391

272344

Legend

- Drill Holes
- Tailing Leases
- Claims



519000

519300

519600

519900

LEGEND

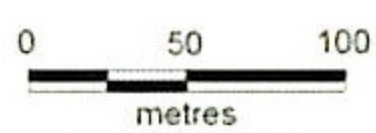
●01 2011 rotasonic drill hole No GT-11-01

A—A' Rotasonic drill section A to A'

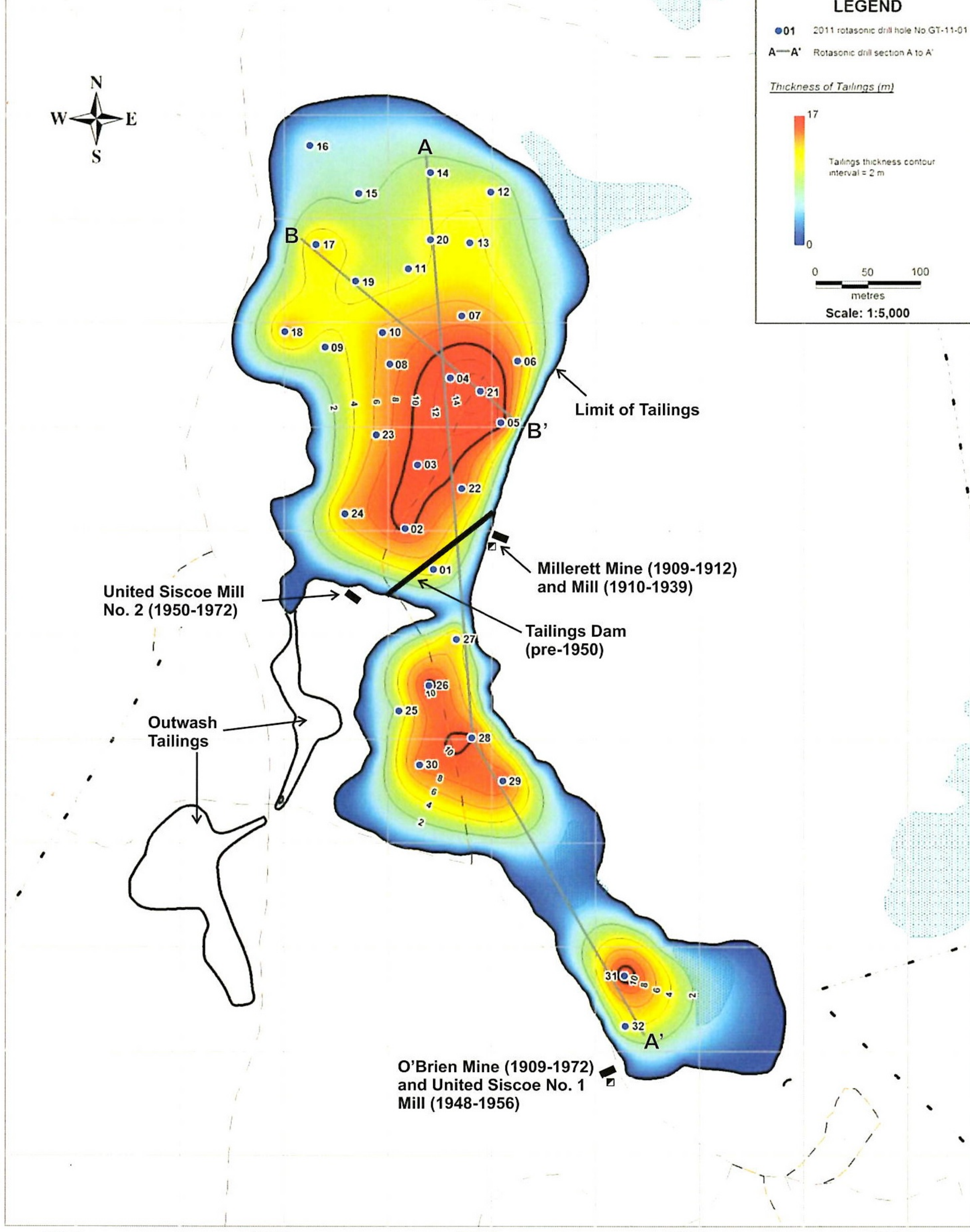
Thickness of Tailings (m)



Tailings thickness contour interval = 2 m



Scale: 1:5,000



**Battery Mineral Resources Ltd.
Gowganda Tailing Project, Ontario**

**Report on the Processing Procedures for the
Gowganda Tailings Samples**

by

David J. Hozjan, P.Geol.

Overburden Drilling Management Limited

Ottawa, Ontario, Canada

May 28, 2019

GOWGANDA TAILINGS PROJECT

1.0 INTRODUCTION

In September, 2018 Battery Mineral Resources Ltd. ("BMR") designed and executed a rotasonic drilling program on its Gowganda project to obtain samples suitable for evaluating the cobalt grade of the tailings at the site of the former Miller Lake O'Brien silver mine. The mine exploited narrow (<15 cm wide), diabase-hosted, very high grade, fissure veins consisting of calcite with subordinate quartz, FeCoNi sulpharsenide minerals and native silver. The property is located approximately 3 km northeast of Gowganda, Ontario.

A total of 346 samples with an average weight of 14.2 kg were collected during the drilling program and submitted to Overburden Drilling Management Limited ("ODM") to prepare for geochemical analysis. The samples were prefixed BMGT-18 (for Battery Mineral Resources Gowganda Tailings drilled in 2018) with drill holes numbered in sequence and samples collected from each hole numbered consecutively – e.g. BMGT-18-01 to 05 for the five tailings samples collected from Hole 01. The samples cover a range of sediment types, from water-saturated fine sand and silt that become compacted during shipping to dry, uncompacted, medium to coarse-grained sand. This report outlines the laboratory protocols used by ODM for splitting the samples of the raw tailings for measuring their Co grade. ALS Canada Ltd. ("ALS") was contracted to analyze the samples.

2.0 SAMPLE PROCESSING

The raw tailings samples were processed by ODM using the procedures shown in Figure 1. The data sets are presented in Tables 1 and 2 and in Appendices A and B.

From each sample two representative splits – 1 kg and 5 kg – were extracted. A 1 kg split was taken for moisture content calculation and assay; and a 5 kg split for establishing gravity-recoverable cobalt-bearing minerals with the remaining sample material archived. Prior to taking the representative splits the weight of any standing water was recorded (Table 1).

2.1 SPLITTING PROTOCOLS

The splits were obtained using one of two methods depending on sediment type: a) incremental sampling for sandy samples; and b) quartering for wet, silty samples. The incremental sampling method reduces the size of the sample by progressively removing 50% subsamples until the required split size is achieved. The method used is as follows:

- 1) A portion of the original sample is formed into a long, even train on a suitable angled stainless steel sheet (Figure 2a)
- 2) A half-split is removed in small slices of equal width (Figure 2b). This process continues with new trains until the entire sample has been divided (Figure 2c). The slices remaining in the train are archived.
- 3) The collected half is formed into new trains and again split in the same manner, until the desired sample weight is reached (Plate 1d).

Wet, silt-rich samples could not be split using the incremental sampling method because they compact into a block during shipping (Plate 3a). A variation on the coning and quartering method is used to split these samples. This method involves taking thin, equally sized slices through the original sample (Plate 3b) until the desired split size is reached. Any one slice of the original sample is assumed to be representative of the entire sample because such fine material is inherently homogeneous.

2.2 GEOCHEMICAL SPLITS

The moisture content (%) of the sample was calculated by determining the difference between damp and dry weight of the 1 kg split, corrected for standing water if present (Table 1). For the loose, sandy tailings, this is simply the difference between the original weight of the moist split and its final dry weight. For the dewatered blocks of silty tailings, the water in the sample bag was weighed and the portion attributable to the 1 kg split was added to the difference between the received and dry weights to determine the total original moisture content of the tailings. However, the resulting values are only rough estimates because the degree of saturation of some sections of the tailings was so high that water was potentially lost from: (a) the core barrel as the core was withdrawn from the hole; (b) the plastic sample tube when it was opened to bag the sample; and (c) the sample bag during shipping to the laboratory. Conversely, water from such

highly saturated sections may have infiltrated the core from less-saturated underlying sections, artificially increasing the moisture content of the samples.

Duplicate splits for quality control purposes were extracted approximately every twenty samples provided that the samples were sufficiently large to yield enough material. The parent split was assigned the suffix A and the duplicate was assigned the suffix B (Table 1).

In addition to the duplicate splits, three unique cobalt standards supplied by BMR – *CDN-ME-1208*, *OREAS-603* and *Standard 2.16% Co* – and a quartz vein blank supplied by ODM were inserted at regular intervals in the analytical stream to monitor the precision and quality of ALS' analyses (Table 1).

In total, 365 one kilogram splits (including 19 duplicates), 21 cobalt standards and 21 quartz vein blanks were submitted to ALS in Sudbury, Ontario for pulverizing and forwarded to ALS' Vancouver, British Columbia laboratory for analysis. The fractions were submitted blindly to ALS with each fraction given a unique identifier (Table 1). At ALS a 250 g split from each of the submitted 1 kg raw tailings splits was pulverized to 85% passing 75 µm. An aliquot of the pulverized split weighing 0.25 g was analyzed for a suite of 48 elements, including Co, using the inductively coupled plasma/mass spectrometry ("ICP/MS") method following four-acid digestion. The analytical method has a reported resolution range of 0.1 to 10,000 ppm for cobalt.

2.2 GRAVITY CONCENTRATION

The 5 kg split extracted from 20 selected samples from two drill holes – Nos. BMGT-18-09 and 15 – were processed at ODM to extract a gravity concentrate using the procedures shown in Figure 1. Included in these samples were the duplicate splits of sample No. 02 from Hole 15.

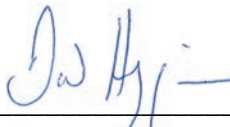
A two-stage gravity concentration was employed. In the first stage, a low-grade concentrate was obtained by tabling. This primary concentrate was then refined in the heavy liquid methylene iodide, at S.G. 3.3, to obtain a pure heavy mineral concentrate consisting mainly of: (a) pyroxene from the diabase; (b) sulpharsenide gangue minerals from the veins; (c) particles of mill steel; and (d) mill-liberated native silver and possible lithic grains containing sufficient unliberated

silver to raise their specific gravity above 3.3. The weights of all fractions obtained from each of the 20 samples during the gravity concentration procedure are provided in Table 2.

Silver grains were readily visible on the table. After further concentration by micropanning, they were counted and the length and width of each grain, or of groups of grains of a similar size, were measured. The table concentrates from which the silver grain counts were obtained were not sieved but the grains were visually grouped into -0.15, 0.15 to 0.5 and 0.5 to 2 mm size ranges. The approximate aggregate weight of the recovered grains in each sample was also calculated. This was done from the measured lengths and widths of the grains using an equation developed by ODM for till-hosted gold grains, making appropriate adjustments for the lower density of silver and the increased grain flattening resulting from the milling process. In samples having a weighable number of large silver grains, the aggregate weight of these grains was compared to the calculated weight in order to calibrate and refine the equation used in the calculations.

In addition to concentrating silver grains, micropanning also concentrated fine (25-500 μm) loellingite and arsenopyrite grains (Table 2). The mineral species are visually similar but were confirmed by semi-quantitative analysis using a scanning electron microscope ("SEM") with energy dispersive spectrometry ("EDS") capabilities in Sample BMGT-18-09-01. Furthermore the loellingite grains analyzed were found to be variably Co-bearing. Given the visual similarity of the grains, in subsequent samples no attempt was made to differentiate between the two minerals and their presence was recorded as undifferentiated Co/Fe arsenides. The abundance of these minerals ranges from trace to 5% of the micropan concentrate (Table 2)

The silver grains and micropan concentrates were returned to the table concentrates prior to heavy liquid refining of these concentrates. Any mill steel and magnetite in the final concentrates were removed using a plunger magnet. The concentrates were sent to ALS where they were pulverized and analyzed by the same methods as the 1 kg geochemical splits. The analyses are pending.


David Hozjan, P.Geo.



ALS Tag Number	Sample Number	Bulk Sample (kg)			Tabling Split	Geochemical Split Weight (g)		
		Total (as Rec'd)	Standing Water*	Total		Damp	Dry	Moisture Content (%)
X419494	Standard CDN-ME-1208	NA	NA	NA	NA	NA	61.6	0.0
X419495	BMGT-18-01-01	12.9	0	12.9	5.2	1152	943.3	22.1
X419496	BMGT-18-01-02	16.5	0.4	16.1	5	1131.8	943	20.0
X419497	BMGT-18-01-03	19.1	0.3	18.8	5.1	1136	960.7	18.2
X419498	BMGT-18-01-04	13.6	1.1	12.5	5.1	1206	1033.1	16.7
X419499	BMGT-18-01-05	13.2	0.8	12.4	4.9	1248.9	1012.1	23.4
X419500	BMGT-18-02-01	17.1	0	17.1	5	1041.6	854.5	21.9
X419501	BMGT-18-02-02	18.6	0.5	18.1	5	1074.1	910.2	18.0
X419502	BMGT-18-03-01	8.2	0	8.2	4.9	1147.2	1017.9	12.7
X419503	Quartz Blank	NA	NA	NA	NA	NA	88.6	0.0
X419504	BMGT-18-03-02	16.7	0	16.7	4.9	1223.5	1070.5	14.3
X419505	BMGT-18-03-03	15.2	0.4	14.8	5	1179.8	1030.1	14.5
X419506	BMGT-18-03-04	11.8	0.7	11.1	4.9	1098.6	920.1	19.4
X419507	BMGT-18-03-05	22.2	0.4	21.8	5.2	1191.6	1010.3	17.9
X419508	BMGT-18-03-06	7.3	0.1	7.2	4.9	1080.9	877.7	23.2
X419509	BMGT-18-04-01	10.5	0	10.5	5	1145.1	1005.9	13.8
X419510	BMGT-18-04-02	14.2	0	14.2	5	990.6	876.8	13.0
X419511	BMGT-18-04-03	15.3	0	15.3	4.9	1103.4	982.4	12.3
X419512	BMGT-18-04-04	13	0.5	12.5	4.9	1120.1	948.1	18.1
X419513	BMGT-18-04-05	13.5	0.3	13.2	4.9	1053.8	901.9	16.8
X419514	Standard CDN-ME-1208	NA	NA	NA	NA	NA	61.2	0.0
X419515	BMGT-18-04-06A	13.7	0.8	12.9	5	1066.8	908.4	17.4
X419516	BMGT-18-04-06B	6.9	0	6.9	5	1084.7	922.5	17.6
X419517	BMGT-18-05-01	10.6	0	10.6	5	1118.5	1052.3	6.3
X419518	BMGT-18-05-02	11.9	0	11.9	4.9	1147.5	1023.8	12.1
X419519	BMGT-18-05-03	14.2	0	14.2	5	1184.2	1054.6	12.3
X419520	BMGT-18-05-04	11.9	0	11.9	4.9	1163.6	1027.8	13.2
X419521	BMGT-18-05-05	11.3	0	11.3	5	1123.4	963.7	16.6
X419522	BMGT-18-05-06	13.5	0.7	12.8	5.1	1105.8	918.8	20.4
X419523	Quartz Blank	NA	NA	NA	NA	NA	85.9	0.0
X419524	BMGT-18-06-01	8	0	8	4.9	1094.9	1056.7	3.6
X419525	BMGT-18-06-02	11.8	0	11.8	4.9	1118.2	1070	4.5
X419526	BMGT-18-06-03	12.3	0	12.3	5	1129.2	1072.3	5.3
X419527	BMGT-18-07-01	10.5	0	10.5	5	1175.7	1135.2	3.6
X419528	BMGT-18-07-02	10.7	0	10.7	5	1150.3	1059.7	8.5
X419529	BMGT-18-07-03	13.9	0.1	13.8	5	1137.5	880	29.3
X419530	BMGT-18-07-04	13.1	0	13.1	4.9	1106.3	908.2	21.8
X419531	BMGT-18-07-05	13.3	0	13.3	5	1135.3	919.2	23.5
X419532	BMGT-18-07-06	12.3	0	12.3	4.9	1169.7	971.4	20.4
X419533	BMGT-18-07-07	15.2	0.3	14.9	5	1167.6	982	18.9
X419534	Standard CDN-ME-1208	NA	NA	NA	NA	NA	61.6	0.0
X419535	BMGT-18-07-08	16.7	1.1	15.6	5	1157.6	920.7	25.7
X419536	BMGT-18-07-09	12.5	0.6	11.9	4.9	1058.6	812.2	30.3
X419537	BMGT-18-08-01	8.2	0	8.2	5	1079.9	1023.2	5.5
X419538	BMGT-18-08-02A	15.1	0	15.1	4.9	1150.3	1028.4	11.9
X419539	BMGT-18-08-02B	9.1	0	9.1	5	976.5	878.6	11.1
X419540	BMGT-18-08-03	12.2	0	12.2	4.9	1102.4	1007.3	9.4
X419541	BMGT-18-08-04	10.2	0	10.2	4.9	1114.3	1038.4	7.3
X419542	BMGT-18-08-05	10.2	0	10.2	5	1054.4	937.6	12.5
X419543	Quartz Blank	NA	NA	NA	NA	NA	76.9	0.0
X419544	BMGT-18-08-06	9.5	0	9.5	5	992.1	913.2	8.6
X419545	BMGT-18-08-07	11.7	0	11.7	5	1059.9	932	13.7
X419546	BMGT-18-08-08	14.9	0.7	14.2	4.9	1178	1013.7	16.2
X419547	BMGT-18-08-09	16.9	0.4	16.5	5	1137.2	928.1	22.5
X419548	BMGT-18-08-10	14	1.6	12.4	4.9	1054.2	889	18.6
X419549	BMGT-18-08-11	11.7	0.4	11.3	5	1093.4	913.2	19.7
X419550	BMGT-18-08-12	15	1.8	13.2	5.1	1081.3	925	16.9
X419551	BMGT-18-09-01	11.2	0	11.2	4.9	1164.4	1075	8.3
X419552	BMGT-18-09-02	11.8	0	11.8	5.1	1096.9	993.9	10.4
X419553	BMGT-18-09-03	12.6	0	12.6	5.1	1066.6	967.9	10.2
X419554	Standard CDN-ME-1208	NA	NA	NA	NA	NA	61.4	0.0
X419555	BMGT-18-09-04	10.9	0	10.9	5	1066	974.4	9.4
X419556	BMGT-18-09-05	13	0	13	4.9	1156.9	1073.5	7.8
X419557	BMGT-18-09-06	14.1	0	14.1	5	1048.1	914.8	14.6
X419558	BMGT-18-09-07	17.1	0	17.1	4.9	1138.3	977.7	16.4
X419559	BMGT-18-09-08A	14.5	1.2	13.3	4.9	1187	988.1	20.1
X419560	BMGT-18-09-08B	7.3	0	7.3	4.9	1057.3	878.2	20.4
X419561	BMGT-18-09-09	17.9	1.9	16	5	1113.1	914.9	21.7
X419562	BMGT-18-09-10	11.7	0.8	10.9	5.1	1012.5	798.4	26.8
X419563	Quartz Blank	NA	NA	NA	NA	NA	77	0.0
X419564	BMGT-18-09-11	9.2	0.5	8.7	4.9	1066.6	881.6	21.0
X419565	BMGT-18-10-01	8.9	0	8.9	5.1	1132.4	1008.4	12.3
X419566	BMGT-18-10-02	10.6	0	10.6	5.1	998	901.6	10.7
X419567	BMGT-18-10-03	11.3	0	11.3	5	1197.3	1069.9	11.9
X419568	BMGT-18-10-04	13.8	0.6	13.2	5	1126	972.5	15.8
X419569	BMGT-18-10-05	13.3	0.1	13.2	5.1	1110.7	938.9	18.3
X419570	BMGT-18-10-06	15.4	1.2	14.2	4.9	1096.4	915.1	19.8

Table 1 - Sample processing weights and moisture content calculations for the 1 kg geochemical splits submitted to ALS for analysis. Page 1 of 6.



ALS Tag Number	Sample Number	Bulk Sample (kg)			Tabling Split	Geochemical Split Weight (g)		
		Total (as Rec'd)	Standing Water*	Total		Damp	Dry	Moisture Content (%)
X419631	Standard CDN-ME-1208	NA	NA	NA	NA	NA	61.5	0.0
X419632	BMGT-18-11-01	15.1	0	15.1	5	1054.6	932.1	13.1
X419633	BMGT-18-11-02	20.5	0	20.5	5	1118.9	960.6	16.5
X419634	BMGT-18-11-03	13.3	0	13.3	4.9	1018.3	880.5	15.7
X419635	BMGT-18-11-04	15.7	1.3	14.4	5	1103.3	945.3	16.7
X419636	BMGT-18-12-01	9.7	0	9.7	5	1025	865.2	18.5
X419637	BMGT-18-12-02	17.6	1.2	16.4	4.9	1088	921.7	18.0
X419638	BMGT-18-13-01	10.9	0	10.9	5	1039.2	860.5	20.8
X419639	BMGT-18-13-02	15.8	1.5	14.3	5.1	958.6	776.8	23.4
X419640	Quartz Blank	NA	NA	NA	NA	NA	84.8	0.0
X419641	BMGT-18-14-01	11	0	11	5	998.2	897.5	11.2
X419642	BMGT-18-14-02	9	0	9	5	984.1	894.8	10.0
X419643	BMGT-18-14-03	11.7	0	11.7	5.1	1019.8	929.3	9.7
X419644	BMGT-18-14-04	13.3	1.5	11.8	5	1041.1	877.9	18.6
X419645	BMGT-18-14-05	14.7	0.1	14.6	5	1068.7	915.7	16.7
X419646	BMGT-18-14-06	13	1.8	11.2	5	1039	842.3	23.4
X419647	BMGT-18-14-07	9.3	0.5	8.8	5	1074.4	882.4	21.8
X419648	BMGT-18-15-01	18.4	0	18.4	4.9	1115	1044.9	6.7
X419649	BMGT-18-15-02A	22.2	0	22.2	5	955.3	882.9	8.2
X419650	BMGT-18-15-02B	16.2	0	16.2	5	978.5	902.5	8.4
X419651	Standard CDN-ME-1208	NA	NA	NA	NA	NA	61.6	0.0
X419652	BMGT-18-15-03	20.7	0	20.7	5	1023.3	920	11.2
X419653	BMGT-18-15-04	18.1	0	18.1	5	1072.7	986.1	8.8
X419654	BMGT-18-15-05	22.3	0	22.3	5	1050.7	969.9	8.3
X419655	BMGT-18-15-06	24.1	0	24.1	5	1104.5	959	15.2
X419656	BMGT-18-15-07	12.8	0.4	12.4	5	1066	901	18.3
X419657	BMGT-18-15-08	13.3	0.8	12.5	5	1073.8	935.7	14.8
X419658	BMGT-18-15-09	12.2	0	12.2	5	998.5	846.7	17.9
X419659	BMGT-18-15-10	13.1	1.1	12	5	924.6	789.3	17.1
X419660	Quartz Blank	NA	NA	NA	NA	NA	126.7	0.0
X419661	BMGT-18-15-11	14	0	14	5	1001.7	790.7	26.7
X419662	BMGT-18-15-12	12.8	0.4	12.4	0	1074.4	842.7	27.5
X419663	BMGT-18-15-13	5.8	0	5.8	4.5	1013.2	717.6	41.2
X419664	BMGT-18-16-01	8.2	0	8.2	5	960.9	906.4	6.0
X419665	BMGT-18-16-02	10.5	0	10.5	5	1050.5	959.9	9.4
X419666	BMGT-18-16-03	8.9	0	8.9	4.9	1019.4	924.4	10.3
X419667	BMGT-18-16-04	7.4	0	7.4	5.2	1001.3	916.9	9.2
X419668	BMGT-18-16-05	9.1	0	9.1	4.9	1059.9	974.4	8.8
X419669	BMGT-18-16-06	9.5	0	9.5	5.1	1057.7	971.7	8.9
X419670	BMGT-18-16-07	8.6	0	8.6	5.1	920.5	783	17.6
X419671	Standard CDN-ME-1208	NA	NA	NA	NA	NA	61.8	0.0
X419672	BMGT-18-16-08	11.4	0.1	11.3	5	1132.2	950.5	19.1
X419673	BMGT-18-16-09A	11.7	0	11.7	4.9	1011.5	864.5	17.0
X419674	BMGT-18-16-09B	5.8	0	5.8	4.8	980.8	837	17.2
X419675	BMGT-18-16-10	13.4	1.3	12.1	5	1026.8	854.5	20.2
X419676	BMGT-18-16-11	13.8	0.1	13.7	4.9	1055.8	908.2	16.3
X419677	BMGT-18-16-12	14	0.6	13.4	5	1016	855.2	18.8
X419678	BMGT-18-16-13	11.1	0.1	11	5	1015.8	867.4	17.1
X419679	BMGT-18-16-14	12.4	0.8	11.6	5	1012.6	827.8	22.3
X419680	Quartz Blank	NA	NA	NA	NA	NA	111.8	0.0
X419681	BMGT-18-17-01	7.1	0	7.1	5.1	998.1	936.7	6.6
X419682	BMGT-18-17-02	9.1	0	9.1	5.1	991.1	923.6	7.3
X419683	BMGT-18-17-03	9.5	0	9.5	4.9	940.8	873.5	7.7
X419684	BMGT-18-17-04	9.3	0	9.3	5	959.2	819.4	17.1
X419685	BMGT-18-17-05	12.5	0.1	12.4	5	982.9	842	16.7
X419686	BMGT-18-17-06	13.8	1.1	12.7	5.1	966.8	807	19.8
X419687	BMGT-18-17-07	10.3	0.1	10.2	5.1	981.4	828	18.5
X419688	BMGT-18-17-08	12.5	0.9	11.6	5.1	1060.7	847.4	25.2
X419689	BMGT-18-17-09A	14.4	1.3	13.1	5	951.5	790.2	20.4
X419690	BMGT-18-17-09B	7.1	0	7.1	5	1049.1	874	20.0
X419691	Standard CDN-ME-1208	NA	NA	NA	NA	NA	61.3	0.0
X419692	BMGT-18-18-01	7.9	0	7.9	5	978.6	922.9	6.0
X419693	BMGT-18-18-02	9.7	0	9.7	5	958.3	889.7	7.7
X419694	BMGT-18-18-03	8.9	0	8.9	5	952.5	863.6	10.3
X419695	BMGT-18-18-04	7.7	0	7.7	5.1	948.5	866.8	9.4
X419696	BMGT-18-18-05	11.5	0	11.5	5	955.1	817.8	16.8
X419697	BMGT-18-18-06	14.4	0.2	14.2	5	905.4	760.8	19.0
X419698	BMGT-18-18-07	12.1	0.1	12	5.1	883.2	749.4	17.9
X419699	BMGT-18-18-08	13.6	0.9	12.7	5	994.3	817.4	21.6
X419700	Quartz Blank	NA	NA	NA	NA	NA	141.7	0.0
X419701	BMGT-18-18-09	12.4	0	12.4	5	1014.9	865.7	17.2
X419702	BMGT-18-18-10	11.4	0	11.4	5	976.7	783	24.7
X419703	BMGT-18-18-11	13.6	0.6	13	5	1023.7	874.6	17.0
X419704	BMGT-18-19-01	11.3	0	11.3	5	961.8	907.4	6.0
X419705	BMGT-18-19-02	11.6	0	11.6	5	986.7	916.7	7.6
X419706	BMGT-18-19-03	13.3	0	13.3	5.1	939.5	867.7	8.3
X419707	BMGT-18-19-04	13.4	0	13.4	5	966.5	870.3	11.1

Table 1 - Sample processing weights and moisture content calculations for the 1 kg geochemical splits submitted to ALS for analysis. Page 2 of 6.



ALS Tag Number	Sample Number	Bulk Sample (kg)			Tabling Split	Geochemical Split Weight (g)		
		Total (as Rec'd)	Standing Water*	Total		Damp	Dry	Moisture Content (%)
X419708	BMGT-18-19-05	16.9	0	16.9	5	1023.7	887.2	15.4
X419709	BMGT-18-19-06A	21.4	0.4	21	5	979.6	842.2	16.3
X419710	BMGT-18-19-06B	14.9	0	14.9	5	977.7	818.6	19.4
X419711	Standard CDN-ME-1208	NA	NA	NA	NA	NA	61.7	0.0
X419712	BMGT-18-19-07	18.3	0.3	18	5	995.6	849.1	17.3
X419713	BMGT-18-19-08	19.4	1.8	17.6	5.1	944.1	801.3	17.8
X419714	BMGT-18-19-09	21.7	1.8	19.9	5.1	949.4	815.6	16.4
X419715	BMGT-18-19-10	21.5	0.4	21.1	5	928.7	787.1	18.0
X419716	BMGT-18-19-11	19.4	0.5	18.9	5	935.8	785.4	19.1
X419717	BMGT-18-19-12	13.7	0.7	13	5.1	907.3	747.3	21.4
X419718	BMGT-18-20-01	13.4	0	13.4	5.1	1007.3	894.4	12.6
X419719	BMGT-18-20-02	15.6	0	15.6	5	1063.7	919.2	15.7
X419720	Quartz Blank	NA	NA	NA	NA	NA	78.8	0.0
X419721	BMGT-18-20-03	15.4	1.1	14.3	4.9	1147.9	984.9	16.5
X419722	BMGT-18-20-04	25.2	0	25.2	5	1108.9	950.9	16.6
X419723	BMGT-18-20-05	18	0.2	17.8	5	1063.8	897.3	18.6
X419724	BMGT-18-20-06	16.1	1.3	14.8	5.1	1112.7	925.4	20.2
X419725	BMGT-18-20-07	20.5	0.2	20.3	5.1	1084.2	919.4	17.9
X419726	BMGT-18-20-08	11.1	1.2	9.9	5	990.3	846.4	17.0
X419727	BMGT-18-21-01	8.8	0.1	8.7	4.9	955.2	768.2	24.3
X419728	BMGT-18-21-02	16.6	0.2	16.4	5	1051.8	867.6	21.2
X419729	BMGT-18-22-01	8.3	0	8.3	5.1	961.8	882.1	9.0
X419730	BMGT-18-22-02A	12.8	0	12.8	5	999.4	851	17.4
X419731	Standard CDN-ME-1208	NA	NA	NA	NA	NA	61.6	0.0
X419732	BMGT-18-22-02B	6.8	0	6.8	5.1	1003.8	854.1	17.5
X419733	BMGT-18-22-03	15	0	15	5	1070.8	853.8	25.4
X419734	BMGT-18-22-04	17.5	0.1	17.4	5.1	898.6	660.3	36.1
X419735	BMGT-18-22-05	15.6	0	15.6	5	992.4	853.8	16.2
X419736	BMGT-18-22-06	21.6	0.8	20.8	5	931.4	775.9	20.0
X419737	BMGT-18-22-07	14.5	0.3	14.2	5	969.1	832.7	16.4
X419738	BMGT-18-22-08	21	2	19	5	1013.3	872	16.2
X419739	BMGT-18-22-09	16	1.2	14.8	5	955.9	811	17.9
X419740	Quartz Blank	NA	NA	NA	NA	NA	89.3	0.0
X419741	BMGT-18-23-01	11.4	0	11.4	5	920.9	862.8	6.7
X419742	BMGT-18-23-02	12.7	0	12.7	5	981.3	903.1	8.7
X419743	BMGT-18-23-03	16.2	0	16.2	5	984.5	832.8	18.2
X419744	BMGT-18-23-04	20.2	0.7	19.5	5	1005.3	852.3	18.0
X419745	BMGT-18-23-05	15.4	0.1	15.3	5	1029.8	877.9	17.3
X419746	BMGT-18-23-06	21.4	1.5	19.9	5	1020.9	872.2	17.0
X419747	BMGT-18-23-07	20.3	0	20.3	5	966.8	828.8	16.7
X419748	BMGT-18-23-08	21.7	0.9	20.8	5	956.6	813.3	17.6
X419749	BMGT-18-23-09A	14.3	0.8	13.5	5	993.6	827.9	20.0
X419750	BMGT-18-23-09B	7.5	0	7.5	5	993.2	830.2	19.6
X419751	Standard CDN-ME-1208	NA	NA	NA	NA	NA	61.1	0.0
X419752	BMGT-18-24-01	11.8	0	11.8	5	919.8	839.2	9.6
X419753	BMGT-18-24-02	19.5	0.6	18.9	5	986.4	851	15.9
X419754	BMGT-18-25-01	10.2	0	10.2	5	986.2	893.8	10.3
X419755	BMGT-18-25-02	12.1	0	12.1	5	972.9	861.4	12.9
X419756	BMGT-18-25-03	12.7	0.1	12.6	5	985.4	836.8	17.8
X419757	BMGT-18-25-04	18.1	1.3	16.8	5	1032.1	809.4	27.5
X419758	BMGT-18-26-01	12.7	0	12.7	5	998.9	834.2	19.7
X419759	BMGT-18-26-02	16	0.4	15.6	5	987.8	821.8	20.2
X419760	Quartz Blank	NA	NA	NA	NA	NA	65.5	0.0
X419761	BMGT-18-26-03	20	0.1	19.9	5	1022.9	875	16.9
X419762	BMGT-18-26-04	19.5	1.5	18	5	991.1	811.6	22.1
X419763	BMGT-18-26-05	10	0.6	9.4	5	1011.2	905.5	11.7
X419764	BMGT-18-27-01	17.7	0	17.7	5	994.2	755.3	31.6
X419765	BMGT-18-28-01	8.6	0	8.6	5	957.2	860	11.3
X419766	BMGT-18-28-02	11.9	0	11.9	5	995.6	906.3	9.9
X419767	BMGT-18-28-03	11.9	0	11.9	5	983.6	895.7	9.8
X419768	BMGT-18-28-04	11.1	0	11.1	5	1010	843.8	19.7
X419769	BMGT-18-28-05A	17.6	0	17.6	4.9	1057.8	902.1	17.3
X419770	BMGT-18-28-05B	11.6	0	11.6	4.9	1102.6	951.3	15.9
X419771	Standard CDN-ME-1208	NA	NA	NA	NA	NA	61.4	0.0
X419772	BMGT-18-28-06	18.7	1.4	17.3	5.1	991.4	814.7	21.7
X419773	BMGT-18-28-07	20.3	1.1	19.2	5	1081.9	912.3	18.6
X419774	BMGT-18-29-01	11.9	0	11.9	5.1	988.6	739.5	33.7
X419775	BMGT-18-29-02	11.6	0.1	11.5	5	942.5	598.9	57.4
X419776	BMGT-18-30-01	11	0	11	4.9	1146.7	934.3	22.7
X419777	BMGT-18-30-02	13.4	1.2	12.2	5	1094.8	898.2	21.9
X419778	BMGT-18-30-03	14.7	0.3	14.4	5.1	1198.8	977.5	22.6
X419779	BMGT-18-30-04	13.3	0.2	13.1	4.9	958.2	599.1	59.9
X419780	Quartz Blank	NA	NA	NA	NA	NA	75.8	0.0
X419781	BMGT-18-31-01	7.6	0.2	7.4	4.9	953.9	645.1	47.9
X419782	BMGT-18-32-01	13.1	0.1	13	4.9	1019.3	756.5	34.7
X419783	BMGT-18-32-02	16	1.2	14.8	5	1044.1	738.6	41.4
X419784	BMGT-18-32-03	16.1	0.8	15.3	5.1	1112.7	809.6	37.4

Table 1 - Sample processing weights and moisture content calculations for the 1 kg geochemical splits submitted to ALS for analysis. Page 3 of 6.



ALS Tag Number	Sample Number	Bulk Sample (kg)			Tabling Split	Geochemical Split Weight (g)		
		Total (as Rec'd)	Standing Water*	Total		Damp	Dry	Moisture Content (%)
X419785	BMGT-18-32-04	11	0.1	10.9	4.9	981.4	516.6	90.0
X419786	BMGT-18-33-01	17.5	1.5	16	5	943.3	753.1	25.3
X419787	BMGT-18-33-02	20	0.2	19.8	5	1199.2	774.4	54.9
X419788	BMGT-18-34-01	10.1	0	10.1	4.9	1152.5	1059.7	8.8
X419789	BMGT-18-34-02A	32	1.4	30.6	5.1	1181.8	921	28.3
X419790	BMGT-18-34-02B	24.5	0	24.5	5	997.3	754.8	32.1
X419791	Standard CDN-ME-1208	NA	NA	NA	NA	NA	60.9	0.0
X419792	BMGT-18-35-01	12.3	0	12.3	4.9	1059.7	873	21.4
X419793	BMGT-18-35-02	17.1	0.5	16.6	5.1	1122.4	938.7	19.6
X419794	BMGT-18-35-03	16.6	0.5	16.1	5	818.2	695.6	17.6
X419795	BMGT-18-35-04	20.2	1.5	18.7	4.9	1003.2	846.7	18.5
X419796	BMGT-18-35-05	25.6	2.2	23.4	5.1	955.1	772.9	23.6
X419797	BMGT-18-36-01	11.5	0.2	11.3	5	981.3	817	20.1
X419798	BMGT-18-36-02	13.5	1.3	12.2	5	1105	921.8	19.9
X419799	BMGT-18-36-03	16	1.8	14.2	5.1	1081.5	921.7	17.3
X419800	Quartz Blank	NA	NA	NA	NA	NA	87.7	0.0
X419801	BMGT-18-36-04	13.4	0.7	12.7	4.9	943.7	792.4	19.1
X419802	BMGT-18-36-05	20.3	0.7	19.6	5	1067.4	893	19.5
X419803	BMGT-18-36-06	12.3	0.9	11.4	5	961.2	721.1	33.3
X419804	BMGT-18-37-01	16.2	0	16.2	5	1162.2	957.5	21.4
X419805	BMGT-18-37-02	20.5	1.9	18.6	4.9	1112.7	922.1	20.7
X419806	BMGT-18-38-01	16.5	1.4	15.1	5.1	1108.7	923.8	20.0
X419807	BMGT-18-38-02	19.1	0.4	18.7	5	1031.3	850.8	21.2
X419808	BMGT-18-39-01	11.6	0.6	11	4.9	1211.7	1007.3	20.3
X419809	BMGT-18-39-02A	22.6	0	22.6	4.9	1053.1	847.5	24.3
X419810	BMGT-18-39-02B	15.5	0	15.5	5	959.4	765.8	25.3
X419811	Standard CDN-ME-1208	NA	NA	NA	NA	NA	61.2	0.0
X419812	BMGT-18-40-01	11	1	10	5.1	986.3	797.9	23.6
X419813	BMGT-18-40-02	14.8	2.6	12.2	5.1	978.3	737.8	32.6
X419814	BMGT-18-40-03	17	0.8	16.2	5.1	965.3	751.4	28.5
X419815	BMGT-18-40-04	15.4	1.4	14	4.9	1098.4	838.1	31.1
X419816	BMGT-18-40-05	15.9	0.9	15	5	1011.1	748.3	35.1
X419817	BMGT-18-40-06	14.7	0.3	14.4	0	794.2	501.6	58.3
X419818	BMGT-18-41-01	8.8	0	8.8	5.1	885.6	770.7	14.9
X419819	BMGT-18-41-02	16.2	0	16.2	4.9	1041.8	859.4	21.2
X419820	Quartz Blank	NA	NA	NA	NA	NA	69.1	0.0
X419821	BMGT-18-41-03	19.5	1.6	17.9	5	1039	884	17.5
X419822	BMGT-18-41-04	17.9	0	17.9	4.9	1184.9	995.8	19.0
X419823	BMGT-18-41-05	19.9	0.4	19.5	5	1130.6	957.5	18.1
X419824	BMGT-18-41-06	16.9	1.2	15.7	5	994.5	771.2	29.0
X419825	BMGT-18-41-07	15.5	1.2	14.3	5	1094.9	883.5	23.9
X419826	BMGT-18-42-01	10	0	10	5.1	997.7	877	13.8
X419827	BMGT-18-42-02	11	0	11	5	1115.7	986.1	13.1
X419828	BMGT-18-42-03	13.7	1.2	12.5	5.1	972.7	838.5	16.0
X419829	BMGT-18-42-04A	16.6	0.5	16.1	5	1160	984.2	17.9
X419830	BMGT-18-42-04B	9.6	0	9.6	5	1034.2	880.3	17.5
X419831	Standard CDN-ME-1208	NA	NA	NA	NA	NA	61	0.0
X419832	BMGT-18-42-05	16.8	1.9	14.9	5	977.1	801.4	21.9
X419833	BMGT-18-42-06	14.7	0	14.7	5	990.3	795.3	24.5
X419835	BMGT-18-43-01	10.5	0	10.5	5	1080.4	968.5	11.6
X419836	BMGT-18-43-02	9.9	0	9.9	5	1044.2	943.6	10.7
X419837	BMGT-18-43-03	9.7	0	9.7	5	1039.5	908.4	14.4
X419838	BMGT-18-43-04	14.2	0	14.2	5	1043.7	880.8	18.5
X419839	BMGT-18-43-05	22	2.5	19.5	5	1077.4	909.9	18.4
X419840	Quartz Blank	NA	NA	NA	NA	NA	92.4	0.0
X419841	BMGT-18-43-06	18.9	1.7	17.2	5	1042.6	862.8	20.8
X419842	BMGT-18-43-07	15.7	1.2	14.5	5	984.5	814.8	20.8
X419843	BMGT-18-44-01	9.4	0	9.4	5	977.4	869.2	12.4
X419844	BMGT-18-44-02	10.4	0	10.4	5	965.2	855.9	12.8
X419845	BMGT-18-44-03	12.5	0	12.5	5	954.7	817.8	16.7
X419846	BMGT-18-44-04	10.4	0.8	9.6	5	955.2	784.6	21.7
X419847	BMGT-18-44-05	18.1	0	18.1	5	971.6	831.4	16.9
X419848	BMGT-18-44-06	16.6	1.2	15.4	5	924.7	737.3	25.4
X419849	BMGT-18-44-07A	15.5	0.2	15.3	5	1010.7	737.3	37.1
X419850	BMGT-18-44-07B	9.3	0	9.3	5	1062.8	852.6	24.7
X419851	Standard 2.16% Co	NA	NA	NA	NA	NA	61.2	0.0
X419852	BMGT-18-44-08	13.9	1.4	12.5	5	1030.2	847	21.6
X419853	BMGT-18-45-01	12.1	0	12.1	5.1	1027.1	981.4	4.7
X419854	BMGT-18-45-02	12	0	12	5	1037.9	986.8	5.2
X419855	BMGT-18-45-03	14.6	0.9	13.7	5.1	1118.6	916.4	22.1
X419856	BMGT-18-45-04	21.5	0	21.5	4.9	1122	947.1	18.5
X419857	BMGT-18-45-05	18.5	0	18.5	5.1	1096.4	915.2	19.8
X419858	BMGT-18-45-06	16.3	1	15.3	5	1255.1	1058.8	18.5
X419859	BMGT-18-92-01	10.1	0	10.1	5	1098	942.8	16.5
X419860	Quartz Blank	NA	NA	NA	NA	NA	102	0.0
X419861	BMGT-18-92-02	11.7	0	11.7	4.9	1200.9	1003.9	19.6
X419862	BMGT-18-92-03	17.8	0	17.8	5	1004.7	864.4	16.2

Table 1 - Sample processing weights and moisture content calculations for the 1 kg geochemical splits submitted to ALS for analysis. Page 4 of 6.



ALS Tag Number	Sample Number	Bulk Sample (kg)			Tabling Split	Geochemical Split Weight (g)		
		Total (as Rec'd)	Standing Water*	Total		Damp	Dry	Moisture Content (%)
X419863	BMGT-18-92-04	14.4	1.5	12.9	5.1	1067.9	891.6	19.8
X419864	BMGT-18-92-05	14.3	0.1	14.2	5	1160.3	976.9	18.8
X419865	BMGT-18-92-06	21.3	1.5	19.8	5	1207.2	1013.2	19.1
X419866	BMGT-18-92-07	12.3	0	12.3	4.9	1174.9	937.3	25.3
X419867	BMGT-18-92-08	17.9	1.5	16.4	4.9	1174.8	978.2	20.1
X419868	BMGT-18-92-09	21.7	2	19.7	5	1045	870.7	20.0
X419869	BMGT-18-92-10A	24.6	1.7	22.9	5	1105.1	888.8	24.3
X419870	BMGT-18-92-10B	16.9	0	16.9	5	1055.9	854.4	23.6
X419871	Standard 2.16% Co	NA	NA	NA	NA	NA	60	0.0
X419872	BMGT-18-93-01	10.4	0	10.4	5	1005.5	864.4	16.3
X419873	BMGT-18-93-02	12.2	0.8	11.4	5	956.6	801.9	19.3
X419874	BMGT-18-93-03	24.7	0.4	24.3	5	956	804	18.9
X419875	BMGT-18-93-04	14.8	1	13.8	4.9	1036.8	863.4	20.1
X419876	BMGT-18-94-01	14.3	0.4	13.9	4.9	1046.9	873.3	19.9
X419877	BMGT-18-95-01	11	0	11	5	980.3	920.3	6.5
X419878	BMGT-18-95-02	16.6	1.3	15.3	5.1	985.5	815.8	20.8
X419879	BMGT-18-95-03	11.7	0	11.7	4.9	1056.9	905.3	16.7
X419880	Quartz Blank	NA	NA	NA	NA	NA	128.9	0.0
X419881	BMGT-18-95-04	13.6	0.7	12.9	5	1086.4	892.4	21.7
X419882	BMGT-18-95-05	17.4	0.1	17.3	5	1051.8	897.5	17.2
X419883	BMGT-18-95-06	18.7	0.7	18	5	974.6	772.2	26.2
X419884	BMGT-18-95-07	14	0	14	5	1036.2	854.8	21.2
X419885	BMGT-18-95-08	18.2	0.9	17.3	5	979.4	801	22.3
X419886	BMGT-18-95-09	15.7	0	15.7	5.1	1001.7	825.3	21.4
X419887	BMGT-18-95-10	14.7	0.4	14.3	4.9	1032.6	808.7	27.7
X419888	BMGT-18-95-11	11.7	0	11.7	5.1	993.2	679.6	46.1
X419889	BMGT-18-95-12A	17.7	0	17.7	5	952.8	731.9	30.2
X419890	BMGT-18-95-12B	11.7	0	11.7	5.1	896.3	686	30.7
X419891	Standard 2.16% Co	NA	NA	NA	NA	NA	60.1	0.0
X419892	BMGT-18-96-01	10.7	0	10.7	5	1045.5	964.4	8.4
X419893	BMGT-18-96-02	14.4	0.1	14.3	5	1052.5	874.3	20.4
X419894	BMGT-18-96-03	14.2	0	14.2	5	1073.7	905.3	18.6
X419895	BMGT-18-96-04	16.5	1.4	15.1	5	994.7	804.6	23.6
X419896	BMGT-18-96-05	21.1	2.9	18.2	5	1044.1	873.3	19.6
X419897	BMGT-18-96-06	26.8	0.8	26	5	1022	833.4	22.6
X419898	BMGT-18-96-07	14.1	0	14.1	5	1095.6	771.7	42.0
X419899	BMGT-18-96-08	14	0	14	5	1135.9	854.5	32.9
X419900	Quartz Blank	NA	NA	NA	NA	NA	125.1	0.0
X419901	BMGT-18-96-09	15	0	15	5	1026.9	860	19.4
X419902	BMGT-18-96-10	22.2	1.1	21.1	5	1029.4	809.8	27.1
X419903	BMGT-18-97-01	9.4	0	9.4	5	1086.1	971	11.9
X419904	BMGT-18-97-02	13.2	0.3	12.9	5	1017.5	845.4	20.4
X419905	BMGT-18-97-03	13.9	0	13.9	5	947.2	811.1	16.8
X419906	BMGT-18-97-04	15.8	1.3	14.5	5	926.4	751.8	23.2
X419907	BMGT-18-97-05	15.8	0	15.8	5	979.2	809.4	21.0
X419908	BMGT-18-97-06	17.7	0.2	17.5	5	996.7	673.9	47.9
X419909	BMGT-18-97-07A	13.9	0	13.9	5	1006.2	868.3	15.9
X419910	BMGT-18-97-07B	7.9	0	7.9	5.1	1048.3	904.2	15.9
X419911	Standard 2.16% Co	NA	NA	NA	NA	NA	60.5	0.0
X419912	BMGT-18-97-08	23.3	0.9	22.4	5.1	1004.9	756.5	32.8
X419913	BMGT-18-97-09	13.2	0.9	12.3	5.1	1081.7	851.5	27.0
X419914	BMGT-18-98-01	9.7	0	9.7	5	969.6	802.9	20.8
X419915	BMGT-18-98-02	22.4	0.7	21.7	5.1	998.3	813	22.8
X419916	BMGT-18-98-03	10.1	0.9	9.2	5.1	1031.6	706.2	46.1
X419917	BMGT-18-98-04	11.8	0.6	11.2	5	1025.9	759.2	35.1
X419918	BMGT-18-98-05	17	0.1	16.9	5	966.5	808.6	19.5
X419919	BMGT-18-98-06	12.6	1.8	10.8	5.1	985.1	775	27.1
X419920	Quartz Blank	NA	NA	NA	NA	NA	64.2	0.0
X419921	BMGT-18-98-07	14.4	0.3	14.1	5	980.5	737.9	32.9
X419922	BMGT-18-98-08	14.5	0.6	13.9	5	989.5	773.7	27.9
X419923	BMGT-18-98-09	13.3	0.3	13	5	1017.4	754.3	34.9
X419924	BMGT-18-98-10	12.3	0.8	11.5	5	1049.2	841.5	24.7
X419925	BMGT-18-98-11	10.9	0.4	10.5	5	977.1	777.7	25.6
X419926	BMGT-18-99-01	12.5	0	12.5	5	968.9	802.2	20.8
X419927	BMGT-18-99-02	11.1	0.6	10.5	5	968.1	722.2	34.0
X419928	BMGT-18-99-03	21.6	0.2	21.4	5	1038.8	860.2	20.8
X419929	BMGT-18-99-04A	16.6	1	15.6	5	1019.7	810.8	25.8
X419930	BMGT-18-99-04B	9.6	0	9.6	5	1001.4	795.8	25.8
X419931	Standard OREAS-603	NA	NA	NA	NA	NA	60.1	0.0
X419932	BMGT-18-99-05	15.7	1.8	13.9	5	981.3	829.9	18.2
X419933	BMGT-18-99-06	9.9	0	9.9	5	1038.1	844.8	22.9
X419934	BMGT-18-100-01	10.7	0	10.7	5	1024.1	966.1	6.0
X419935	BMGT-18-100-02	11.1	0.1	11	5	997.7	838	19.1
X419936	BMGT-18-100-03	10.2	0	10.2	5	1005.7	860.5	16.9
X419937	BMGT-18-100-04	14.7	0.8	13.9	5	1014.2	831.5	22.0
X419938	BMGT-18-100-05	15.4	0	15.4	5	972.8	822	18.3
X419939	BMGT-18-100-06	19.7	1.3	18.4	5	997.5	816	22.2

Table 1 - Sample processing weights and moisture content calculations for the 1 kg geochemical splits submitted to ALS for analysis. Page 5 of 6.



ALS Tag Number	Sample Number	Bulk Sample (kg)			Tabling Split	Geochemical Split Weight (g)		
		Total (as Rec'd)	Standing Water*	Total		Damp	Dry	Moisture Content (%)
X419940	Quartz Blank	NA	NA	NA	NA	NA	121.4	0.0
X419941	BMGT-18-100-07	13.2	0	13.2	5	1048.7	862.1	21.6
X419942	BMGT-18-100-08	17.7	0.6	17.1	5	1037.7	836.7	24.0
X419943	BMGT-18-100-09	9.7	0	9.7	5	1022	765.5	33.5
X419944	BMGT-18-100-10	11.8	0.3	11.5	4.9	1076.8	805.1	33.7
X419945	BMGT-18-100-11	16.9	0.1	16.8	4.9	1077.6	826.3	30.4
X419946	BMGT-18-100-12	10.3	0.1	10.2	5	1092.6	801.6	36.3
X419947	BMGT-18-101-01	9.8	0	9.8	4.9	1052.9	876.8	20.1
X419948	BMGT-18-101-02	12.4	0.3	12.1	5.1	969.3	804.2	20.5
X419949	BMGT-18-101-03A	16.9	0.2	16.7	4.9	1043.3	828.5	25.9
X419950	BMGT-18-101-03B	10.6	0	10.6	4.9	1021.2	828.3	23.3
X419951	Standard OREAS-603	NA	NA	NA	NA	NA	60	0.0
X419952	BMGT-18-101-04	17.4	1.6	15.8	4.9	1047.6	855.8	22.4
X419953	BMGT-18-101-05	16.9	0	16.9	5	1134.2	848	33.8
X419954	BMGT-18-101-06	14.7	0.8	13.9	5.1	1133.8	913.5	24.1
X419955	BMGT-18-101-07	15.1	1.5	13.6	5	1199.4	988.4	21.3
X419956	BMGT-18-101-08	17.1	0	17.1	4.9	1208.9	955.8	26.5
X419957	BMGT-18-101-09	14.2	0.2	14	5	1085.6	829.8	30.8
X419958	BMGT-18-101-10	15.8	0	15.8	4.9	1277	917.3	39.2
X419959	BMGT-18-101-11	11.7	0	11.7	4.9	1170.8	823.4	42.2
X419960	Quartz Blank	NA	NA	NA	NA	NA	122	0.0
X419961	BMGT-18-101-12	14.5	0	14.5	5.1	1246.6	925	34.8

Table 1 - Sample processing weights and moisture content calculations for the 1 kg geochemical splits submitted to ALS for analysis. Page 6 of 6.



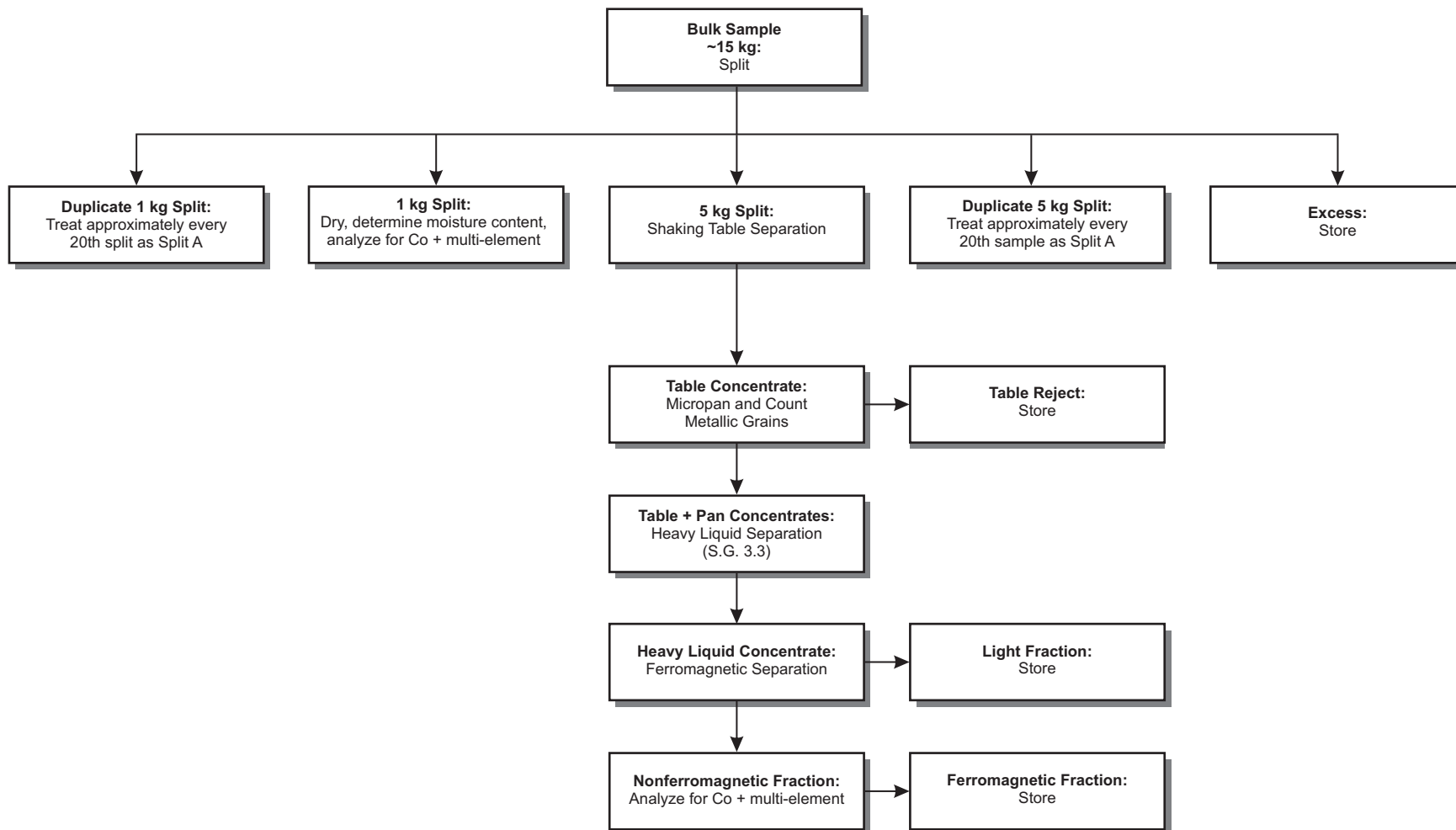


Figure 1 – Sample processing flow sheet for the tailings samples.



a) Part of original tailings sample is formed into a long train in preparation for sampling.

b) A half-split is taken at regular intervals along the train.



c) Representative 1 kg (in tray) and 5 kg (in bag) splits.

Figure 2 – Photographs of the incremental sampling method used for the dry, uncompacted tailings samples.



a) Example of a sample of water-saturated, silt-rich tailings compacted into the cylindrical form of the shipping pail.

b) The block is quartered and thin slices are removed from a random quarter until the desired split size is achieved.



c) Typical appearance of silt-rich (left) and sandy (right) tailings sample splits after drying.

Figure 3 – Photographs of the quartering sampling method used for compacted tailings samples.

Appendix A

Processing Weights for the 1 kg Sample Splits



Overburden Drilling Management Limited
Unit 107, 15 Capella Court
Nepean, Ontario, Canada, K2E 7X1
Tel: (613) 226-1771 Fax: (613) 226-8753
odm@storm.ca www.odm.ca

Laboratory Data Report

Client Information

Battery Mineral Resources Ltd.
Suite 5600 - 500 King street West
Toronto, ON
M5X 1C9

pedoyle56@icloud.com

Attention: Mr. Peter Doyle

Data-File Information

Date: October 11, 2018
Project name: BMGT-18

ODM batch number: 7894
Sample numbers: BMGT-18-01-01 to 05, 02-01 to 02, 03-01 to 06, 04-01 to 06, 05-01 to 06, 06-01 to 03, 07-01 to 09, 08-01 to 12, 09-01 to 11 and 10-01 to 06

Data file: 20187894 - Battery Minerals - Doyle - BMGT18 - October 2018

Number of samples in this report: 66
Number of samples processed to date: 66
Total number of samples in project: 66

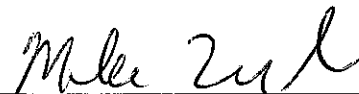
Preliminary data:
Final data:
Revised data:

Samples Processed For: Cobalt Content

Processing Specifications:

1. Submitted by client: Tailings samples representing 1.0 m core sections from rotasonic drill holes.
2. Each tailings sample split into one ~1.0 kg and one ~5.0 kg splits. Excess from each sample archived.
3. Dried 1.0 kg splits submitted to ALS for assay.

Notes



Mike Crawford
Laboratory Manager

Bulk Sample Processing Weights

Client: Battery Minerals

File Name: 20187894 - Battery Minerals - Doyle - BMGT18 - Oct 2018

Total Number of Samples in this Report: 66

ODM Batch Number(s): 7894

ALS Tag #	Sample Number	Damp Weight (kg)			
		Total (as Rec'd)	Standing Water*	Settled Sample	
				Total	Tabling Split
X419494	Standard CDN-ME-1208	NA	NA	NA	NA
X419495	BMGT-18-01-01	12.9	0.0	12.9	5.2
X419496	BMGT-18-01-02	16.5	0.4	16.1	5.0
X419497	BMGT-18-01-03	19.1	0.3	18.8	5.1
X419498	BMGT-18-01-04	13.6	1.1	12.5	5.1
X419499	BMGT-18-01-05	13.2	0.8	12.4	4.9
X419500	BMGT-18-02-01	17.1	0.0	17.1	5.0
X419501	BMGT-18-02-02	18.6	0.5	18.1	5.0
X419502	BMGT-18-03-01	8.2	0.0	8.2	4.9
X419503	Quartz Blank	NA	NA	NA	NA
X419504	BMGT-18-03-02	16.7	0.0	16.7	4.9
X419505	BMGT-18-03-03	15.2	0.4	14.8	5.0
X419506	BMGT-18-03-04	11.8	0.7	11.1	4.9
X419507	BMGT-18-03-05	22.2	0.4	21.8	5.2
X419508	BMGT-18-03-06	7.3	0.1	7.2	4.9
X419509	BMGT-18-04-01	10.5	0.0	10.5	5.0
X419510	BMGT-18-04-02	14.2	0.0	14.2	5.0
X419511	BMGT-18-04-03	15.3	0.0	15.3	4.9
X419512	BMGT-18-04-04	13.0	0.5	12.5	4.9
X419513	BMGT-18-04-05	13.5	0.3	13.2	4.9
X419514	Standard CDN-ME-1208	NA	NA	NA	NA
X419515	BMGT-18-04-06A	13.7	0.8	12.9	5.0
X419516	BMGT-18-04-06B	6.9	0.0	6.9	5.0
X419517	BMGT-18-05-01	10.6	0.0	10.6	5.0
X419518	BMGT-18-05-02	11.9	0.0	11.9	4.9
X419519	BMGT-18-05-03	14.2	0.0	14.2	5.0
X419520	BMGT-18-05-04	11.9	0.0	11.9	4.9
X419521	BMGT-18-05-05	11.3	0.0	11.3	5.0
X419522	BMGT-18-05-06	13.5	0.7	12.8	5.1
X419523	Quartz Blank	NA	NA	NA	NA
X419524	BMGT-18-06-01	8.0	0.0	8.0	4.9
X419525	BMGT-18-06-02	11.8	0.0	11.8	4.9
X419526	BMGT-18-06-03	12.3	0.0	12.3	5.0
X419527	BMGT-18-07-01	10.5	0.0	10.5	5.0
X419528	BMGT-18-07-02	10.7	0.0	10.7	5.0
X419529	BMGT-18-07-03	13.9	0.1	13.8	5.0
X419530	BMGT-18-07-04	13.1	0.0	13.1	4.9
X419531	BMGT-18-07-05	13.3	0.0	13.3	5.0
X419532	BMGT-18-07-06	12.3	0.0	12.3	4.9
X419533	BMGT-18-07-07	15.2	0.3	14.9	5.0
X419534	Standard CDN-ME-1208	NA	NA	NA	NA
X419535	BMGT-18-07-08	16.7	1.1	15.6	5.0

*Weight of standing water on top of sample when received. Water was decanted and discarded prior to preparing sample splits.

Bulk Sample Processing Weights

Client: Battery Minerals

File Name: 20187894 - Battery Minerals - Doyle - BMGT18 - Oct 2018

Total Number of Samples in this Report: 66

ODM Batch Number(s): 7894

ALS Tag #	Sample Number	Damp Weight (kg)			
		Total (as Rec'd)	Standing Water*	Settled Sample	
				Total	Tabling Split
X419536	BMGT-18-07-09	12.5	0.6	11.9	4.9
X419537	BMGT-18-08-01	8.2	0.0	8.2	5.0
X419538	BMGT-18-08-02A	15.1	0.0	15.1	4.9
X419539	BMGT-18-08-02B	9.1	0.0	9.1	5.0
X419540	BMGT-18-08-03	12.2	0.0	12.2	4.9
X419541	BMGT-18-08-04	10.2	0.0	10.2	4.9
X419542	BMGT-18-08-05	10.2	0.0	10.2	5.0
X419543	Quartz Blank	NA	NA	NA	NA
X419544	BMGT-18-08-06	9.5	0.0	9.5	5.0
X419545	BMGT-18-08-07	11.7	0.0	11.7	5.0
X419546	BMGT-18-08-08	14.9	0.7	14.2	4.9
X419547	BMGT-18-08-09	16.9	0.4	16.5	5.0
X419548	BMGT-18-08-10	14.0	1.6	12.4	4.9
X419549	BMGT-18-08-11	11.7	0.4	11.3	5.0
X419550	BMGT-18-08-12	15.0	1.8	13.2	5.1
X419551	BMGT-18-09-01	11.2	0.0	11.2	4.9
X419552	BMGT-18-09-02	11.8	0.0	11.8	5.1
X419553	BMGT-18-09-03	12.6	0.0	12.6	5.1
X419554	Standard CDN-ME-1208	NA	NA	NA	NA
X419555	BMGT-18-09-04	10.9	0.0	10.9	5.0
X419556	BMGT-18-09-05	13.0	0.0	13.0	4.9
X419557	BMGT-18-09-06	14.1	0.0	14.1	5.0
X419558	BMGT-18-09-07	17.1	0.0	17.1	4.9
X419559	BMGT-18-09-08A	14.5	1.2	13.3	4.9
X419560	BNGT-18-09-08B	7.3	0.0	7.3	4.9
X419561	BMGT-18-09-09	17.9	1.9	16.0	5.0
X419562	BMGT-18-09-10	11.7	0.8	10.9	5.1
X419563	Quartz Blank	NA	NA	NA	NA
X419564	BMGT-18-09-11	9.2	0.5	8.7	4.9
X419565	BMGT-18-10-01	8.9	0.0	8.9	5.1
X419566	BMGT-18-10-02	10.6	0.0	10.6	5.1
X419567	BMGT-18-10-03	11.3	0.0	11.3	5.0
X419568	BMGT-18-10-04	13.8	0.6	13.2	5.0
X419569	BMGT-18-10-05	13.3	0.1	13.2	5.1
X419570	BMGT-18-10-06	15.4	1.2	14.2	4.9

*Weight of standing water on top of sample when received. Water was decanted and discarded prior to preparing sample splits.

Geochemical Split Weights and Moisture Content

Client: Battery Minerals

File Name: 20187894 - Battery Minerals - Doyle - BMGT18 - Oct 2018

Total Number of Samples in this Report: 66

ODM Batch Number(s): 7894

ALS Tag #	Sample Number	Geochemical Split Weight (g)		Moisture Content (%)
		Damp	Dry	
X419494	Standard CDN-ME-1208	NA	61.6	0.0
X419495	BMGT-18-01-01	1152.0	943.3	22.1
X419496	BMGT-18-01-02	1131.8	943.0	20.0
X419497	BMGT-18-01-03	1136.0	960.7	18.2
X419498	BMGT-18-01-04	1206.0	1033.1	16.7
X419499	BMGT-18-01-05	1248.9	1012.1	23.4
X419500	BMGT-18-02-01	1041.6	854.5	21.9
X419501	BMGT-18-02-02	1074.1	910.2	18.0
X419502	BMGT-18-03-01	1147.2	1017.9	12.7
X419503	Quartz Blank	NA	88.6	0.0
X419504	BMGT-18-03-02	1223.5	1070.5	14.3
X419505	BMGT-18-03-03	1179.8	1030.1	14.5
X419506	BMGT-18-03-04	1098.6	920.1	19.4
X419507	BMGT-18-03-05	1191.6	1010.3	17.9
X419508	BMGT-18-03-06	1080.9	877.7	23.2
X419509	BMGT-18-04-01	1145.1	1005.9	13.8
X419510	BMGT-18-04-02	990.6	876.8	13.0
X419511	BMGT-18-04-03	1103.4	982.4	12.3
X419512	BMGT-18-04-04	1120.1	948.1	18.1
X419513	BMGT-18-04-05	1053.8	901.9	16.8
X419514	Standard CDN-ME-1208	NA	61.2	0.0
X419515	BMGT-18-04-06A	1066.8	908.4	17.4
X419516	BMGT-18-04-06B	1084.7	922.5	17.6
X419517	BMGT-18-05-01	1118.5	1052.3	6.3
X419518	BMGT-18-05-02	1147.5	1023.8	12.1
X419519	BMGT-18-05-03	1184.2	1054.6	12.3
X419520	BMGT-18-05-04	1163.6	1027.8	13.2
X419521	BMGT-18-05-05	1123.4	963.7	16.6
X419522	BMGT-18-05-06	1105.8	918.8	20.4
X419523	Quartz Blank	NA	85.9	0.0
X419524	BMGT-18-06-01	1094.9	1056.7	3.6
X419525	BMGT-18-06-02	1118.2	1070.0	4.5
X419526	BMGT-18-06-03	1129.2	1072.3	5.3
X419527	BMGT-18-07-01	1175.7	1135.2	3.6
X419528	BMGT-18-07-02	1150.3	1059.7	8.5
X419529	BMGT-18-07-03	1137.5	880.0	29.3
X419530	BMGT-18-07-04	1106.3	908.2	21.8
X419531	BMGT-18-07-05	1135.3	919.2	23.5
X419532	BMGT-18-07-06	1169.7	971.4	20.4
X419533	BMGT-18-07-07	1167.6	982.0	18.9
X419534	Standard CDN-ME-1208	NA	61.6	0.0
X419535	BMGT-18-07-08	1157.6	920.7	25.7
X419536	BMGT-18-07-09	1058.6	812.2	30.3
X419537	BMGT-18-08-01	1079.9	1023.2	5.5
X419538	BMGT-18-08-02A	1150.3	1028.4	11.9
X419539	BMGT-18-08-02B	976.5	878.6	11.1

Geochemical Split Weights and Moisture Content

Client: Battery Minerals

File Name: 20187894 - Battery Minerals - Doyle - BMGT18 - Oct 2018

Total Number of Samples in this Report: 66

ODM Batch Number(s): 7894

ALS Tag #	Sample Number	Geochemical Split Weight (g)		Moisture Content (%)
		Damp	Dry	
X419540	BMGT-18-08-03	1102.4	1007.3	9.4
X419541	BMGT-18-08-04	1114.3	1038.4	7.3
X419542	BMGT-18-08-05	1054.4	937.6	12.5
X419543	Quartz Blank	NA	76.9	0.0
X419544	BMGT-18-08-06	992.1	913.2	8.6
X419545	BMGT-18-08-07	1059.9	932.0	13.7
X419546	BMGT-18-08-08	1178.0	1013.7	16.2
X419547	BMGT-18-08-09	1137.2	928.1	22.5
X419548	BMGT-18-08-10	1054.2	889.0	18.6
X419549	BMGT-18-08-11	1093.4	913.2	19.7
X419550	BMGT-18-08-12	1081.3	925.0	16.9
X419551	BMGT-18-09-01	1164.4	1075.0	8.3
X419552	BMGT-18-09-02	1096.9	993.9	10.4
X419553	BMGT-18-09-03	1066.6	967.9	10.2
X419554	Standard CDN-ME-1208	NA	61.4	0.0
X419555	BMGT-18-09-04	1066.0	974.4	9.4
X419556	BMGT-18-09-05	1156.9	1073.5	7.8
X419557	BMGT-18-09-06	1048.1	914.8	14.6
X419558	BMGT-18-09-07	1138.3	977.7	16.4
X419559	BMGT-18-09-08A	1187.0	988.1	20.1
X419560	BMGT-18-09-08B	1057.3	878.2	20.4
X419561	BMGT-18-09-09	1113.1	914.9	21.7
X419562	BMGT-18-09-10	1012.5	798.4	26.8
X419563	Quartz Blank	NA	77.0	0.0
X419564	BMGT-18-09-11	1066.6	881.6	21.0
X419565	BMGT-18-10-01	1132.4	1008.4	12.3
X419566	BMGT-18-10-02	998.0	901.6	10.7
X419567	BMGT-18-10-03	1197.3	1069.9	11.9
X419568	BMGT-18-10-04	1126.0	972.5	15.8
X419569	BMGT-18-10-05	1110.7	938.9	18.3
X419570	BMGT-18-10-06	1096.4	915.1	19.8



Overburden Drilling Management Limited
Unit 107, 15 Capella Court
Nepean, Ontario, Canada, K2E 7X1
Tel: (613) 226-1771 Fax: (613) 226-8753
odm@storm.ca www.odm.ca

Laboratory Data Report

Client Information

Battery Mineral Resources Ltd.
Suite 5600 - 500 King street West
Toronto, ON
M5X 1C9

pedoyle56@icloud.com

Attention: Mr. Peter Doyle

Data-File Information

Date: November 12, 2018
Project name: BMGT-18
ODM batch number: 7927
Sample numbers: BMGT-18-11-01 to 04, 11-01 and 02, 12-01 and 02, 13-01 and 02, 14-01 to 07, 15-01 to 13 and 16-01 to 14 and 17-01 to 09
Data file: 20187894 - Battery Minerals - Doyle - BMGT18 - October 2018
Number of samples in this report: 54
Number of samples processed to date: 120
Total number of samples in project: 354

Preliminary data: []
Final data: [X]
Revised data: []

Samples Processed For: Cobalt Content

Processing Specifications:

- 1. Submitted by client: Tailings samples representing 1.0 m core sections from rotasonic drill holes.
2. Each tailings sample split into one ~1.0 kg and one ~5.0 kg splits. Excess from each sample archived.
3. Dried 1.0 kg splits submitted to ALS for assay.

Notes

[Blank lines for notes]

Mike Crawford
Laboratory Manager

Bulk Sample Processing Weights

Client: Battery Minerals

File Name: 20187894 - Battery Minerals - Doyle - BMGT18 - Oct 2018

Total Number of Samples in this Report: 54

ODM Batch Number(s): 7927

ALS Tag #	Sample Number	Damp Weight (kg)			
		Total (as Rec'd)	Standing Water*	Settled Sample	
				Total	Tabling Split
X419631	Standard CDN-ME-1208	NA	NA	NA	NA
X419632	BMGT-18-11-01	15.1	0.0	15.1	5.0
X419633	BMGT-18-11-02	20.5	0.0	20.5	5.0
X419634	BMGT-18-11-03	13.3	0.0	13.3	4.9
X419635	BMGT-18-11-04	15.7	1.3	14.4	5.0
X419636	BMGT-18-12-01	9.7	0.0	9.7	5.0
X419637	BMGT-18-12-02	17.6	1.2	16.4	4.9
X419638	BMGT-18-13-01	10.9	0.0	10.9	5.0
X419639	BMGT-18-13-02	15.8	1.5	14.3	5.1
X419640	Quartz Blank	NA	NA	NA	NA
X419641	BMGT-18-14-01	11.0	0.0	11.0	5.0
X419642	BMGT-18-14-02	9.0	0.0	9.0	5.0
X419643	BMGT-18-14-03	11.7	0.0	11.7	5.1
X419644	BMGT-18-14-04	13.3	1.5	11.8	5.0
X419645	BMGT-18-14-05	14.7	0.1	14.6	5.0
X419646	BMGT-18-14-06	13.0	1.8	11.2	5.0
X419647	BMGT-18-14-07	9.3	0.5	8.8	5.0
X419648	BMGT-18-15-01	18.4	0.0	18.4	4.9
X419649	BMGT-18-15-02A	22.2	0.0	22.2	5.0
X419650	BMGT-18-15-02B	16.2	0.0	16.2	5.0
X419651	Standard CDN-ME-1208	NA	NA	NA	NA
X419652	BMGT-18-15-03	20.7	0.0	20.7	5.0
X419653	BMGT-18-15-04	18.1	0.0	18.1	5.0
X419654	BMGT-18-15-05	22.3	0.0	22.3	5.0
X419655	BMGT-18-15-06	24.1	0.0	24.1	5.0
X419656	BMGT-18-15-07	12.8	0.4	12.4	5.0
X419657	BMGT-18-15-08	13.3	0.8	12.5	5.0
X419658	BMGT-18-15-09	12.2	0.0	12.2	5.0
X419659	BMGT-18-15-10	13.1	1.1	12.0	5.0
X419660	Quartz Blank	NA	NA	NA	NA
X419661	BMGT-18-15-11	14.0	0.0	14.0	5.0
X419662	BMGT-18-15-12	12.8	0.4	12.4	0.0
X419663	BMGT-18-15-13	5.8	0.0	5.8	4.5
X419664	BMGT-18-16-01	8.2	0.0	8.2	5.0
X419665	BMGT-18-16-02	10.5	0.0	10.5	5.0
X419666	BMGT-18-16-03	8.9	0.0	8.9	4.9
X419667	BMGT-18-16-04	7.4	0.0	7.4	5.2
X419668	BMGT-18-16-05	9.1	0.0	9.1	4.9
X419669	BMGT-18-16-06	9.5	0.0	9.5	5.1
X419670	BMGT-18-16-07	8.6	0.0	8.6	5.1
X419671	Standard CDN-ME-1208	NA	NA	NA	NA
X419672	BMGT-18-16-08	11.4	0.1	11.3	5.0

*Weight of standing water on top of sample when received. Water was decanted and discarded prior to preparing sample splits.

Bulk Sample Processing Weights

Client: Battery Minerals

File Name: 20187894 - Battery Minerals - Doyle - BMGT18 - Oct 2018

Total Number of Samples in this Report: 54

ODM Batch Number(s): 7927

ALS Tag #	Sample Number	Damp Weight (kg)			
		Total (as Rec'd)	Standing Water*	Settled Sample	
				Total	Tabling Split
X419673	BMGT-18-16-09A	11.7	0.0	11.7	4.9
X419674	BMGT-18-16-09B	5.8	0.0	5.8	4.8
X419675	BMGT-18-16-10	13.4	1.3	12.1	5.0
X419676	BMGT-18-16-11	13.8	0.1	13.7	4.9
X419677	BMGT-18-16-12	14.0	0.6	13.4	5.0
X419678	BMGT-18-16-13	11.1	0.1	11.0	5.0
X419679	BMGT-18-16-14	12.4	0.8	11.6	5.0
X419680	Quartz Blank	NA	NA	NA	NA
X419681	BMGT-18-17-01	7.1	0.0	7.1	5.1
X419682	BMGT-18-17-02	9.1	0.0	9.1	5.1
X419683	BMGT-18-17-03	9.5	0.0	9.5	4.9
X419684	BMGT-18-17-04	9.3	0.0	9.3	5.0
X419685	BMGT-18-17-05	12.5	0.1	12.4	5.0
X419686	BMGT-18-17-06	13.8	1.1	12.7	5.1
X419687	BMGT-18-17-07	10.3	0.1	10.2	5.1
X419688	BMGT-18-17-08	12.5	0.9	11.6	5.1
X419689	BMGT-18-17-09A	14.4	1.3	13.1	5.0
X419690	BMGT-18-17-09B	7.1	0.0	7.1	5.0

*Weight of standing water on top of sample when received. Water was decanted and discarded prior to preparing sample splits.

Geochemical Split Weights and Moisture Content

Client: Battery Mineral Resources Ltd.

File Name: 20187894 - Battery Minerals - Doyle - BMGT18 - October 2018

Total Number of Samples in this Report: 54

ODM Batch Number(s): 7927

ALS Tag #	Sample Number	Geochemical Split Weight (g)		Moisture Content (%)
		Damp	Dry	
X419631	Standard CDN-ME-1208	NA	61.5	0.0
X419632	BMGT-18-11-01	1054.6	932.1	13.1
X419633	BMGT-18-11-02	1118.9	960.6	16.5
X419634	BMGT-18-11-03	1018.3	880.5	15.7
X419635	BMGT-18-11-04	1103.3	945.3	16.7
X419636	BMGT-18-12-01	1025.0	865.2	18.5
X419637	BMGT-18-12-02	1088.0	921.7	18.0
X419638	BMGT-18-13-01	1039.2	860.5	20.8
X419639	BMGT-18-13-02	958.6	776.8	23.4
X419640	Quartz Blank	NA	84.8	0.0
X419641	BMGT-18-14-01	998.2	897.5	11.2
X419642	BMGT-18-14-02	984.1	894.8	10.0
X419643	BMGT-18-14-03	1019.8	929.3	9.7
X419644	BMGT-18-14-04	1041.1	877.9	18.6
X419645	BMGT-18-14-05	1068.7	915.7	16.7
X419646	BMGT-18-14-06	1039.0	842.3	23.4
X419647	BMGT-18-14-07	1074.4	882.4	21.8
X419648	BMGT-18-15-01	1115.0	1044.9	6.7
X419649	BMGT-18-15-02A	955.3	882.9	8.2
X419650	BMGT-18-15-02B	978.5	902.5	8.4
X419651	Standard CDN-ME-1208	NA	61.6	0.0
X419652	BMGT-18-15-03	1023.3	920.0	11.2
X419653	BMGT-18-15-04	1072.7	986.1	8.8
X419654	BMGT-18-15-05	1050.7	969.9	8.3
X419655	BMGT-18-15-06	1104.5	959.0	15.2
X419656	BMGT-18-15-07	1066.0	901.0	18.3
X419657	BMGT-18-15-08	1073.8	935.7	14.8
X419658	BMGT-18-15-09	998.5	846.7	17.9
X419659	BMGT-18-15-10	924.6	789.3	17.1
X419660	Quartz Blank	NA	126.7	0.0
X419661	BMGT-18-15-11	1001.7	790.7	26.7
X419662	BMGT-18-15-12	1074.4	842.7	27.5
X419663	BMGT-18-15-13	1013.2	717.6	41.2
X419664	BMGT-18-16-01	960.9	906.4	6.0
X419665	BMGT-18-16-02	1050.5	959.9	9.4
X419666	BMGT-18-16-03	1019.4	924.4	10.3
X419667	BMGT-18-16-04	1001.3	916.9	9.2
X419668	BMGT-18-16-05	1059.9	974.4	8.8
X419669	BMGT-18-16-06	1057.7	971.7	8.9
X419670	BMGT-18-16-07	920.5	783.0	17.6
X419671	Standard CDN-ME-1208	NA	61.8	0.0
X419672	BMGT-18-16-08	1132.2	950.5	19.1
X419673	BMGT-18-16-09A	1011.5	864.5	17.0
X419674	BMGT-18-16-09B	980.8	837.0	17.2
X419675	BMGT-18-16-10	1026.8	854.5	20.2
X419676	BMGT-18-16-11	1055.8	908.2	16.3

Geochemical Split Weights and Moisture Content

Client: Battery Mineral Resources Ltd.

File Name: 20187894 - Battery Minerals - Doyle - BMGT18 - October 2018

Total Number of Samples in this Report: 54

ODM Batch Number(s): 7927

ALS Tag #	Sample Number	Geochemical Split Weight (g)		Moisture Content (%)
		Damp	Dry	
X419677	BMGT-18-16-12	1016.0	855.2	18.8
X419678	BMGT-18-16-13	1015.8	867.4	17.1
X419679	BMGT-18-16-14	1012.6	827.8	22.3
X419680	Quartz Blank	NA	111.8	0.0
X419681	BMGT-18-17-01	998.1	936.7	6.6
X419682	BMGT-18-17-02	991.1	923.6	7.3
X419683	BMGT-18-17-03	940.8	873.5	7.7
X419684	BMGT-18-17-04	959.2	819.4	17.1
X419685	BMGT-18-17-05	982.9	842.0	16.7
X419686	BMGT-18-17-06	966.8	807.0	19.8
X419687	BMGT-18-17-07	981.4	828.0	18.5
X419688	BMGT-18-17-08	1060.7	847.4	25.2
X419689	BMGT-18-17-09A	951.5	790.2	20.4
X419690	BMGT-18-17-09B	1049.1	874.0	20.0



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Tel: (613) 226-1771 Fax: (613) 226-8753
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Laboratory Data Report

Client Information

Battery Mineral Resources Ltd.
Suite 5600 - 500 King street West
Toronto, ON
M5X 1C9

pedoyle56@icloud.com

Attention: Mr. Peter Doyle

Data-File Information

Date: November 12, 2018
Project name: BMGT-18
ODM batch number: 7928
Sample numbers: BMGT-18-18-01 to 18-11, 19-01 to 19-12, 20-01 to 08, 21-01 and 02, 22-01 to 09 and 23-01 to 23-09
Data file: 20187894 - Battery Minerals - Doyle - BMGT18 - October 2018
Number of samples in this report: 54
Number of samples processed to date: 174
Total number of samples in project: 354

Preliminary data: []
Final data: [X]
Revised data: []

Samples Processed For: Cobalt Content

Processing Specifications:

- 1. Submitted by client: Tailings samples representing 1.0 m core sections from rotasonic drill holes.
2. Each tailings sample divided into one ~1.0 kg and one ~5.0 kg split. Excess from each sample archived.
3. Dried 1.0 kg splits submitted to ALS for assay.

Notes

[Empty lines for notes]

Signature of Mike Crawford
Mike Crawford
Laboratory Manager

Bulk Sample Processing Weights

Client: Battery Minerals

File Name: 20187894 - Battery Minerals - Doyle - BMGT18 - Oct 2018

Total Number of Samples in this Report: 54

ODM Batch Number(s): 7928

ALS Tag #	Sample Number	Damp Weight (kg)			
		Total (as Rec'd)	Standing Water*	Settled Sample	
				Total	Tabling Split
X419691	Standard CDN-ME-1208	NA	NA	NA	NA
X419692	BMGT-18-18-01	7.9	0.0	7.9	5.0
X419693	BMGT-18-18-02	9.7	0.0	9.7	5.0
X419694	BMGT-18-18-03	8.9	0.0	8.9	5.0
X419695	BMGT-18-18-04	7.7	0.0	7.7	5.1
X419696	BMGT-18-18-05	11.5	0.0	11.5	5.0
X419697	BMGT-18-18-06	14.4	0.2	14.2	5.0
X419698	BMGT-18-18-07	12.1	0.1	12.0	5.1
X419699	BMGT-18-18-08	13.6	0.9	12.7	5.0
X419700	Quartz Blank	NA	NA	NA	NA
X419701	BMGT-18-18-09	12.4	0.0	12.4	5.0
X419702	BMGT-18-18-10	11.4	0.0	11.4	5.0
X419703	BMGT-18-18-11	13.6	0.6	13.0	5.0
X419704	BMGT-18-19-01	11.3	0.0	11.3	5.0
X419705	BMGT-18-19-02	11.6	0.0	11.6	5.0
X419706	BMGT-18-19-03	13.3	0.0	13.3	5.1
X419707	BMGT-18-19-04	13.4	0.0	13.4	5.0
X419708	BMGT-18-19-05	16.9	0.0	16.9	5.0
X419709	BMGT-18-19-06A	21.4	0.4	21.0	5.0
X419710	BMGT-18-19-06B	14.9	0.0	14.9	5.0
X419711	Standard CDN-ME-1208	NA	NA	NA	NA
X419712	BMGT-18-19-07	18.3	0.3	18.0	5.0
X419713	BMGT-18-19-08	19.4	1.8	17.6	5.1
X419714	BMGT-18-19-09	21.7	1.8	19.9	5.1
X419715	BMGT-18-19-10	21.5	0.4	21.1	5.0
X419716	BMGT-18-19-11	19.4	0.5	18.9	5.0
X419717	BMGT-18-19-12	13.7	0.7	13.0	5.1
X419718	BMGT-18-20-01	13.4	0.0	13.4	5.1
X419719	BMGT-18-20-02	15.6	0.0	15.6	5.0
X419720	Quartz Blank	NA	NA	NA	NA
X419721	BMGT-18-20-03	15.4	1.1	14.3	4.9
X419722	BMGT-18-20-04	25.2	0.0	25.2	5.0
X419723	BMGT-18-20-05	18.0	0.2	17.8	5.0
X419724	BMGT-18-20-06	16.1	1.3	14.8	5.1
X419725	BMGT-18-20-07	20.5	0.2	20.3	5.1
X419726	BMGT-18-20-08	11.1	1.2	9.9	5.0
X419727	BMGT-18-21-01	8.8	0.1	8.7	4.9
X419728	BMGT-18-21-02	16.6	0.2	16.4	5.0
X419729	BMGT-18-22-01	8.3	0.0	8.3	5.1
X419730	BMGT-18-22-02A	12.8	0.0	12.8	5.0
X419731	Standard CDN-ME-1208	NA	NA	NA	NA
X419732	BMGT-18-22-02B	6.8	0.0	6.8	5.1

*Weight of standing water on top of sample when received. Water was decanted and discarded prior to preparing sample splits.

Bulk Sample Processing Weights

Client: Battery Minerals

File Name: 20187894 - Battery Minerals - Doyle - BMGT18 - Oct 2018

Total Number of Samples in this Report: 54

ODM Batch Number(s): 7928

ALS Tag #	Sample Number	Damp Weight (kg)			
		Total (as Rec'd)	Standing Water*	Settled Sample	
				Total	Tabling Split
X419733	BMGT-18-22-03	15.0	0.0	15.0	5.0
X419734	BMGT-18-22-04	17.5	0.1	17.4	5.1
X419735	BMGT-18-22-05	15.6	0.0	15.6	5.0
X419736	BMGT-18-22-06	21.6	0.8	20.8	5.0
X419737	BMGT-18-22-07	14.5	0.3	14.2	5.0
X419738	BMGT-18-22-08	21.0	2.0	19.0	5.0
X419739	BMGT-18-22-09	16.0	1.2	14.8	5.0
X419740	Quartz Blank	NA	NA	NA	NA
X419741	BMGT-18-23-01	11.4	0.0	11.4	5.0
X419742	BMGT-18-23-02	12.7	0.0	12.7	5.0
X419743	BMGT-18-23-03	16.2	0.0	16.2	5.0
X419744	BMGT-18-23-04	20.2	0.7	19.5	5.0
X419745	BMGT-18-23-05	15.4	0.1	15.3	5.0
X419746	BMGT-18-23-06	21.4	1.5	19.9	5.0
X419747	BMGT-18-23-07	20.3	0.0	20.3	5.0
X419748	BMGT-18-23-08	21.7	0.9	20.8	5.0
X419749	BMGT-18-23-09A	14.3	0.8	13.5	5.0
X419750	BMGT-18-23-09B	7.5	0.0	7.5	5.0

*Weight of standing water on top of sample when received. Water was decanted and discarded prior to preparing sample splits.

Geochemical Split Weights and Moisture Content

Client: Battery Mineral Resources Ltd.

File Name: 20187894 - Battery Minerals - Doyle - BMGT18 - October 2018

Total Number of Samples in this Report: 54

ODM Batch Number(s): 7928

ALS Tag #	Sample Number	Geochemical Split Weight (g)		Moisture Content (%)
		Damp	Dry	
X419691	Standard CDN-ME-1208	NA	61.3	0.0
X419692	BMGT-18-18-01	978.6	922.9	6.0
X419693	BMGT-18-18-02	958.3	889.7	7.7
X419694	BMGT-18-18-03	952.5	863.6	10.3
X419695	BMGT-18-18-04	948.5	866.8	9.4
X419696	BMGT-18-18-05	955.1	817.8	16.8
X419697	BMGT-18-18-06	905.4	760.8	19.0
X419698	BMGT-18-18-07	883.2	749.4	17.9
X419699	BMGT-18-18-08	994.3	817.4	21.6
X419700	Quartz Blank	NA	141.7	0.0
X419701	BMGT-18-18-09	1014.9	865.7	17.2
X419702	BMGT-18-18-10	976.7	783.0	24.7
X419703	BMGT-18-18-11	1023.7	874.6	17.0
X419704	BMGT-18-19-01	961.8	907.4	6.0
X419705	BMGT-18-19-02	986.7	916.7	7.6
X419706	BMGT-18-19-03	939.5	867.7	8.3
X419707	BMGT-18-19-04	966.5	870.3	11.1
X419708	BMGT-18-19-05	1023.7	887.2	15.4
X419709	BMGT-18-19-06A	979.6	842.2	16.3
X419710	BMGT-18-19-06B	977.7	818.6	19.4
X419711	Standard CDN-ME-1208	NA	61.7	0.0
X419712	BMGT-18-19-07	995.6	849.1	17.3
X419713	BMGT-18-19-08	944.1	801.3	17.8
X419714	BMGT-18-19-09	949.4	815.6	16.4
X419715	BMGT-18-19-10	928.7	787.1	18.0
X419716	BMGT-18-19-11	935.8	785.4	19.1
X419717	BMGT-18-19-12	907.3	747.3	21.4
X419718	BMGT-18-20-01	1007.3	894.4	12.6
X419719	BMGT-18-20-02	1063.7	919.2	15.7
X419720	Quartz Blank	NA	78.8	0.0
X419721	BMGT-18-20-03	1147.9	984.9	16.5
X419722	BMGT-18-20-04	1108.9	950.9	16.6
X419723	BMGT-18-20-05	1063.8	897.3	18.6
X419724	BMGT-18-20-06	1112.7	925.4	20.2
X419725	BMGT-18-20-07	1084.2	919.4	17.9
X419726	BMGT-18-20-08	990.3	846.4	17.0
X419727	BMGT-18-21-01	955.2	768.2	24.3
X419728	BMGT-18-21-02	1051.8	867.6	21.2
X419729	BMGT-18-22-01	961.8	882.1	9.0
X419730	BMGT-18-22-02A	999.4	851.0	17.4
X419731	Standard CDN-ME-1208	NA	61.6	0.0
X419732	BMGT-18-22-02B	1003.8	854.1	17.5
X419733	BMGT-18-22-03	1070.8	853.8	25.4
X419734	BMGT-18-22-04	898.6	660.3	36.1
X419735	BMGT-18-22-05	992.4	853.8	16.2
X419736	BMGT-18-22-06	931.4	775.9	20.0

Geochemical Split Weights and Moisture Content

Client: Battery Mineral Resources Ltd.

File Name: 20187894 - Battery Minerals - Doyle - BMGT18 - October 2018

Total Number of Samples in this Report: 54

ODM Batch Number(s): 7928

ALS Tag #	Sample Number	Geochemical Split Weight (g)		Moisture Content (%)
		Damp	Dry	
X419737	BMGT-18-22-07	969.1	832.7	16.4
X419738	BMGT-18-22-08	1013.3	872.0	16.2
X419739	BMGT-18-22-09	955.9	811.0	17.9
X419740	Quartz Blank	NA	89.3	0.0
X419741	BMGT-18-23-01	920.9	862.8	6.7
X419742	BMGT-18-23-02	981.3	903.1	8.7
X419743	BMGT-18-23-03	984.5	832.8	18.2
X419744	BMGT-18-23-04	1005.3	852.3	18.0
X419745	BMGT-18-23-05	1029.8	877.9	17.3
X419746	BMGT-18-23-06	1020.9	872.2	17.0
X419747	BMGT-18-23-07	966.8	828.8	16.7
X419748	BMGT-18-23-08	956.6	813.3	17.6
X419749	BMGT-18-23-09A	993.6	827.9	20.0
X419750	BMGT-18-23-09B	993.2	830.2	19.6



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Laboratory Data Report

Client Information

Battery Mineral Resources Ltd.
Suite 5600 - 500 King street West
Toronto, ON
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pedoyle56@icloud.com

Attention: Mr. Peter Doyle

Data-File Information

Date: Dec 03, 2018
Project name: BMGT-18

ODM batch number: 7941
Sample numbers: BMGT-18-24-01 and 24-02, 25-01 to 25-04 and 26-01 to 26-05, 27-01, 28-01 to 28-07, 29-01 and 29-02, 30-01 to 30-04, 31-01, 32-01 to 32-04, 33-01 and 33-02, 34-01 and 34-02, 35-01 to 35-05, 36-01 to 36-06, 37-01 and 37-02, 38-01 and 38-02, 39-01, 39-02A and 39-02B, 40-01 to 40-06, 41-01 to 41-07, 42-01 to 42-06, 43-01 to 43-07, 44-01 to 44-07B

Data file: 20187894 - Battery Minerals - Doyle - BMGT18 - October 2018

Number of samples in this report: 84
Number of samples processed to date: 246
Total number of samples in project: 354

Preliminary data:
Final data:
Revised data:

Samples Processed For: Cobalt Content

Processing Specifications:

1. Submitted by client: Tailings samples representing 1.0 m core sections from rotasonic drill holes.
2. Each tailings sample divided into one ~1.0 kg and one ~5.0 kg split. Excess from each sample archived.
3. Dried 1.0 kg splits submitted to ALS for assay.

Notes

Number of samples listed above does not include standards, blanks and duplicates.

Mike Crawford
Laboratory Manager

Bulk Sample Processing Weights

Client: Battery Minerals

File Name: 20187894 - Battery Minerals - Doyle - BMGT18 - Oct 2018

Total Number of Samples in this Report:

ODM Batch Number(s): 7941

ALS Tag #	Sample Number	Damp Weight (kg)			
		Total (as Rec'd)	Standing Water*	Settled Sample	
				Total	Tabling Split
X419751	Standard CDN-ME-1208	NA	NA	NA	NA
X419752	BMGT-18-24-01	11.8	0.0	11.8	5.0
X419753	BMGT-18-24-02	19.5	0.6	18.9	5.0
X419754	BMGT-18-25-01	10.2	0.0	10.2	5.0
X419755	BMGT-18-25-02	12.1	0.0	12.1	5.0
X419756	BMGT-18-25-03	12.7	0.1	12.6	5.0
X419757	BMGT-18-25-04	18.1	1.3	16.8	5.0
X419758	BMGT-18-26-01	12.7	0.0	12.7	5.0
X419759	BMGT-18-26-02	16.0	0.4	15.6	5.0
X419760	Quartz Blank	NA	NA	NA	NA
X419761	BMGT-18-26-03	20.0	0.1	19.9	5.0
X419762	BMGT-18-26-04	19.5	1.5	18.0	5.0
X419763	BMGT-18-26-05	10.0	0.6	9.4	5.0
X419764	BMGT-18-27-01	17.7	0.0	17.7	5.0
X419765	BMGT-18-28-01	8.6	0.0	8.6	5.0
X419766	BMGT-18-28-02	11.9	0.0	11.9	5.0
X419767	BMGT-18-28-03	11.9	0.0	11.9	5.0
X419768	BMGT-18-28-04	11.1	0.0	11.1	5.0
X419769	BMGT-18-28-05A	17.6	0.0	17.6	4.9
X419770	BMGT-18-28-05B	11.6	0.0	11.6	4.9
X419771	Standard CDN-ME-1208	NA	NA	NA	NA
X419772	BMGT-18-28-06	18.7	1.4	17.3	5.1
X419773	BMGT-18-28-07	20.3	1.1	19.2	5.0
X419774	BMGT-18-29-01	11.9	0.0	11.9	5.1
X419775	BMGT-18-29-02	11.6	0.1	11.5	5.0
X419776	BMGT-18-30-01	11.0	0.0	11.0	4.9
X419777	BMGT-18-30-02	13.4	1.2	12.2	5.0
X419778	BMGT-18-30-03	14.7	0.3	14.4	5.1
X419779	BMGT-18-30-04	13.3	0.2	13.1	4.9
X419780	Quartz Blank	NA	NA	NA	NA
X419781	BMGT-18-31-01	7.6	0.2	7.4	4.9
X419782	BMGT-18-32-01	13.1	0.1	13.0	4.9
X419783	BMGT-18-32-02	16.0	1.2	14.8	5.0
X419784	BMGT-18-32-03	16.1	0.8	15.3	5.1
X419785	BMGT-18-32-04	11.0	0.1	10.9	4.9
X419786	BMGT-18-33-01	17.5	1.5	16.0	5.0
X419787	BMGT-18-33-02	20.0	0.2	19.8	5.0
X419788	BMGT-18-34-01	10.1	0.0	10.1	4.9
X419789	BMGT-18-34-02A	32.0	1.4	30.6	5.1
X419790	BMGT-18-34-02B	24.5	0.0	24.5	5.0
X419791	Standard CDN-ME-1208	NA	NA	NA	NA
X419792	BMGT-18-35-01	12.3	0.0	12.3	4.9

*Weight of standing water on top of sample when received. Water was decanted and discarded prior to preparing sample splits.

Bulk Sample Processing Weights

Client: Battery Minerals

File Name: 20187894 - Battery Minerals - Doyle - BMGT18 - Oct 2018

Total Number of Samples in this Report:

ODM Batch Number(s): 7941

ALS Tag #	Sample Number	Damp Weight (kg)			
		Total (as Rec'd)	Standing Water*	Settled Sample	
				Total	Tabling Split
X419793	BMGT-18-35-02	17.1	0.5	16.6	5.1
X419794	BMGT-18-35-03	16.6	0.5	16.1	5.0
X419795	BMGT-18-35-04	20.2	1.5	18.7	4.9
X419796	BMGT-18-35-05	25.6	2.2	23.4	5.1
X419797	BMGT-18-36-01	11.5	0.2	11.3	5.0
X419798	BMGT-18-36-02	13.5	1.3	12.2	5.0
X419799	BMGT-18-36-03	16.0	1.8	14.2	5.1
X419800	Quartz Blank	NA	NA	NA	NA
X419801	BMGT-18-36-04	13.4	0.7	12.7	4.9
X419802	BMGT-18-36-05	20.3	0.7	19.6	5.0
X419803	BMGT-18-36-06	12.3	0.9	11.4	5.0
X419804	BMGT-18-37-01	16.2	0.0	16.2	5.0
X419805	BMGT-18-37-02	20.5	1.9	18.6	4.9
X419806	BMGT-18-38-01	16.5	1.4	15.1	5.1
X419807	BMGT-18-38-02	19.1	0.4	18.7	5.0
X419808	BMGT-18-39-01	11.6	0.6	11.0	4.9
X419809	BMGT-18-39-02A	22.6	0.0	22.6	4.9
X419810	BMGT-18-39-02B	15.5	0.0	15.5	5.0
X419811	Standard CDN-ME-1208	NA	NA	NA	NA
X419812	BMGT-18-40-01	11.0	1.0	10.0	5.1
X419813	BMGT-18-40-02	14.8	2.6	12.2	5.1
X419814	BMGT-18-40-03	17.0	0.8	16.2	5.1
X419815	BMGT-18-40-04	15.4	1.4	14.0	4.9
X419816	BMGT-18-40-05	15.9	0.9	15.0	5.0
X419817	BMGT-18-40-06	14.7	0.3	14.4	0.0
X419818	BMGT-18-41-01	8.8	0.0	8.8	5.1
X419819	BMGT-18-41-02	16.2	0.0	16.2	4.9
X419820	Quartz Blank	NA	NA	NA	NA
X419821	BMGT-18-41-03	19.5	1.6	17.9	5.0
X419822	BMGT-18-41-04	17.9	0.0	17.9	4.9
X419823	BMGT-18-41-05	19.9	0.4	19.5	5.0
X419824	BMGT-18-41-06	16.9	1.2	15.7	5.0
X419825	BMGT-18-41-07	15.5	1.2	14.3	5.0
X419826	BMGT-18-42-01	10.0	0.0	10.0	5.1
X419827	BMGT-18-42-02	11.0	0.0	11.0	5.0
X419828	BMGT-18-42-03	13.7	1.2	12.5	5.1
X419829	BMGT-18-42-04A	16.6	0.5	16.1	5.0
X419830	BMGT-18-42-04B	9.6	0.0	9.6	5.0
X419831	Standard CDN-ME-1208	NA	NA	NA	NA
X419832	BMGT-18-42-05	16.8	1.9	14.9	5.0
X419833	BMGT-18-43-06	14.7	0.0	14.7	5.0
X419835	BMGT-18-43-01	10.5	0.0	10.5	5.0

*Weight of standing water on top of sample when received. Water was decanted and discarded prior to preparing sample splits.

Bulk Sample Processing Weights

Client: Battery Minerals

File Name: 20187894 - Battery Minerals - Doyle - BMGT18 - Oct 2018

Total Number of Samples in this Report:

ODM Batch Number(s): 7941

ALS Tag #	Sample Number	Damp Weight (kg)			
		Total (as Rec'd)	Standing Water*	Settled Sample	
				Total	Tabling Split
X419836	BMGT-18-43-02	9.9	0.0	9.9	5.0
X419837	BMGT-18-43-03	9.7	0.0	9.7	5.0
X419838	BMGT-18-43-04	14.2	0.0	14.2	5.0
X419839	BMGT-18-43-05	22.0	2.5	19.5	5.0
X419840	Quartz Blank	NA	NA	NA	NA
X419841	BMGT-18-43-06	18.9	1.7	17.2	5.0
X419842	BMGT-18-44-07	15.7	1.2	14.5	5.0
X419843	BMGT-18-44-01	9.4	0.0	9.4	5.0
X419844	BMGT-18-44-02	10.4	0.0	10.4	5.0
X419845	BMGT-18-44-03	12.5	0.0	12.5	5.0
X419846	BMGT-18-44-04	10.4	0.8	9.6	5.0
X419847	BMGT-18-44-05	18.1	0.0	18.1	5.0
X419848	BMGT-18-44-06	16.6	1.2	15.4	5.0
X419849	BMGT-18-44-07A	15.5	0.2	15.3	5.0
X419850	BMGT-18-44-07B	9.3	0.0	9.3	5.0

*Weight of standing water on top of sample when received. Water was decanted and discarded prior to preparing sample splits.

Geochemical Split Weights and Moisture Content

Client: Battery Mineral Resources Ltd.

File Name: 20187894 - Battery Minerals - Doyle - BMGT18 - October 2018

Total Number of Samples in this Report: 89

ODM Batch Number(s): 7941

ALS Tag #	Sample Number	Geochemical Split Weight (g)		Moisture Content (%)
		Damp	Dry	
X419751	Standard CDN-ME-1208	NA	61.1	0.0
X419752	BMGT-18-24-01	919.8	839.2	9.6
X419753	BMGT-18-24-02	986.4	851.0	15.9
X419754	BMGT-18-25-01	986.2	893.8	10.3
X419755	BMGT-18-25-02	972.9	861.4	12.9
X419756	BMGT-18-25-03	985.4	836.8	17.8
X419757	BMGT-18-25-04	1032.1	809.4	27.5
X419758	BMGT-18-26-01	998.9	834.2	19.7
X419759	BMGT-18-26-02	987.8	821.8	20.2
X419760	Quartz Blank	NA	65.5	0.0
X419761	BMGT-18-26-03	1022.9	875.0	16.9
X419762	BMGT-18-26-04	991.1	811.6	22.1
X419763	BMGT-18-26-05	1011.2	905.5	11.7
X419764	BMGT-18-27-01	994.2	755.3	31.6
X419765	BMGT-18-28-01	957.2	860.0	11.3
X419766	BMGT-18-28-02	995.6	906.3	9.9
X419767	BMGT-18-28-03	983.6	895.7	9.8
X419768	BMGT-18-28-04	1010.0	843.8	19.7
X419769	BMGT-18-28-05A	1057.8	902.1	17.3
X419770	BMGT-18-28-05B	1102.6	951.3	15.9
X419771	Standard CDN-ME-1208	NA	61.4	0.0
X419772	BMGT-18-28-06	991.4	814.7	21.7
X419773	BMGT-18-28-07	1081.9	912.3	18.6
X419774	BMGT-18-29-01	988.6	739.5	33.7
X419775	BMGT-18-29-02	942.5	598.9	57.4
X419776	BMGT-18-30-01	1146.7	934.3	22.7
X419777	BMGT-18-30-02	1094.8	898.2	21.9
X419778	BMGT-18-30-03	1198.8	977.5	22.6
X419779	BMGT-18-30-04	958.2	599.1	59.9
X419780	Quartz Blank	NA	75.8	0.0
X419781	BMGT-18-31-01	953.9	645.1	47.9
X419782	BMGT-18-32-01	1019.3	756.5	34.7
X419783	BMGT-18-32-02	1044.1	738.6	41.4
X419784	BMGT-18-32-03	1112.7	809.6	37.4
X419785	BMGT-18-32-04	981.4	516.6	90.0
X419786	BMGT-18-33-01	943.3	753.1	25.3
X419787	BMGT-18-33-02	1199.2	774.4	54.9
X419788	BMGT-18-34-01	1152.5	1059.7	8.8
X419789	BMGT-18-34-02A	1181.8	921.0	28.3
X419790	BMGT-18-34-02B	997.3	754.8	32.1
X419791	Standard CDN-ME-1208	NA	60.9	0.0
X419792	BMGT-18-35-01	1059.7	873.0	21.4
X419793	BMGT-18-35-02	1122.4	938.7	19.6
X419794	BMGT-18-35-03	818.2	695.6	17.6
X419795	BMGT-18-35-04	1003.2	846.7	18.5
X419796	BMGT-18-35-05	955.1	772.9	23.6

Geochemical Split Weights and Moisture Content

Client: Battery Mineral Resources Ltd.

File Name: 20187894 - Battery Minerals - Doyle - BMGT18 - October 2018

Total Number of Samples in this Report: 89

ODM Batch Number(s): 7941

ALS Tag #	Sample Number	Geochemical Split Weight (g)		Moisture Content (%)
		Damp	Dry	
X419797	BMGT-18-36-01	981.3	817.0	20.1
X419798	BMGT-18-36-02	1105.0	921.8	19.9
X419799	BMGT-18-36-03	1081.5	921.7	17.3
X419800	Quartz Blank	NA	87.7	0.0
X419801	BMGT-18-36-04	943.7	792.4	19.1
X419802	BMGT-18-36-05	1067.4	893.0	19.5
X419803	BMGT-18-36-06	961.2	721.1	33.3
X419804	BMGT-18-37-01	1162.2	957.5	21.4
X419805	BMGT-18-37-02	1112.7	922.1	20.7
X419806	BMGT-18-38-01	1108.7	923.8	20.0
X419807	BMGT-18-38-02	1031.3	850.8	21.2
X419808	BMGT-18-39-01	1211.7	1007.3	20.3
X419809	BMGT-18-39-02A	1053.1	847.5	24.3
X419810	BMGT-18-39-02B	959.4	765.8	25.3
X419811	Standard CDN-ME-1208	NA	61.2	0.0
X419812	BMGT-18-40-01	986.3	797.9	23.6
X419813	BMGT-18-40-02	978.3	737.8	32.6
X419814	BMGT-18-40-03	965.3	751.4	28.5
X419815	BMGT-18-40-04	1098.4	838.1	31.1
X419816	BMGT-18-40-05	1011.1	748.3	35.1
X419817	BMGT-18-40-06	794.2	501.6	58.3
X419818	BMGT-18-41-01	885.6	770.7	14.9
X419819	BMGT-18-41-02	1041.8	859.4	21.2
X419820	Quartz Blank	NA	69.1	0.0
X419821	BMGT-18-41-03	1039.0	884.0	17.5
X419822	BMGT-18-41-04	1184.9	995.8	19.0
X419823	BMGT-18-41-05	1130.6	957.5	18.1
X419824	BMGT-18-41-06	994.5	771.2	29.0
X419825	BMGT-18-41-07	1094.9	883.5	23.9
X419826	BMGT-18-42-01	997.7	877.0	13.8
X419827	BMGT-18-42-02	1115.7	986.1	13.1
X419828	BMGT-18-42-03	972.7	838.5	16.0
X419829	BMGT-18-42-04A	1160.0	984.2	17.9
X419830	BMGT-18-42-04B	1034.2	880.3	17.5
X419831	Standard CDN-ME-1208	NA	61.0	0.0
X419832	BMGT-18-42-05	977.1	801.4	21.9
X419833	BMGT-18-43-06	990.3	795.3	24.5
X419835	BMGT-18-43-01	1080.4	968.5	11.6
X419836	BMGT-18-43-02	1044.2	943.6	10.7
X419837	BMGT-18-43-03	1039.5	908.4	14.4
X419838	BMGT-18-43-04	1043.7	880.8	18.5
X419839	BMGT-18-43-05	1077.4	909.9	18.4
X419840	Quartz Blank	NA	92.4	0.0
X419841	BMGT-18-43-06	1042.6	862.8	20.8
X419842	BMGT-18-44-07	984.5	814.8	20.8
X419843	BMGT-18-44-01	977.4	869.2	12.4

Geochemical Split Weights and Moisture Content

Client: Battery Mineral Resources Ltd.

File Name: 20187894 - Battery Minerals - Doyle - BMGT18 - October 2018

Total Number of Samples in this Report: 89

ODM Batch Number(s): 7941

ALS Tag #	Sample Number	Geochemical Split Weight (g)		Moisture Content (%)
		Damp	Dry	
X419844	BMGT-18-44-02	965.2	855.9	12.8
X419845	BMGT-18-44-03	954.7	817.8	16.7
X419846	BMGT-18-44-04	955.2	784.6	21.7
X419847	BMGT-18-44-05	971.6	831.4	16.9
X419848	BMGT-18-44-06	924.7	737.3	25.4
X419849	BMGT-18-44-07A	1010.7	737.3	37.1
X419850	BMGT-18-44-07B	1062.8	852.6	24.7



Overburden Drilling Management Limited
Unit 107, 15 Capella Court
Nepean, Ontario, Canada, K2E 7X1
Tel: (613) 226-1771 Fax: (613) 226-8753
odm@storm.ca www.odm.ca

Laboratory Data Report

Client Information

Battery Mineral Resources Ltd.
Suite 5600 - 500 King street West
Toronto, ON
M5X 1C9

pedoyle56@icloud.com

Attention: Mr. Peter Doyle

Data-File Information

Date: Dec 03, 2018
Project name: BMGT-18

ODM batch number: 7934
Sample numbers: BMGT-18-44-08, 45-01 to 45-06, 92-01 to 92-10B, 93-01 to 93-04, 94-01, 95-01 to 95-12B, 96-01 to 96-10, 97-01 to 97-09, 98-01 to 98-11, 99-01 to 99-06, 100-01 to 100-12 and 101-01 to 101-12

Data file: 20187894 - Battery Minerals - Doyle - BMGT18 - October 2018

Number of samples in this report: 94
Number of samples processed to date: 346
Total number of samples in project: 346

Preliminary data:
Final data:
Revised data:

Samples Processed For: Cobalt Content

Processing Specifications:

1. Submitted by client: Tailings samples representing 1.0 m core sections from rotasonic drill holes.
2. Each tailings sample divided into one ~1.0 kg and one ~5.0 kg split. Excess from each sample archived.
3. Dried 1.0 kg splits submitted to ALS for assay.

Notes

Number of samples listed above does not include standards, blanks and duplicates.

Mike Crawford
Laboratory Manager

Bulk Sample Processing Weights

Client: Battery Minerals

File Name: 20187894 - Battery Minerals - Doyle - BMGT18 - Oct 2018

Total Number of Samples in this Report: 94

ODM Batch Number(s): 7934

ALS Tag #	Sample Number	Damp Weight (kg)			
		Total (as Rec'd)	Standing Water*	Settled Sample	
				Total	Tabling Split
X419851	Standard 2.16% Co	NA	NA	NA	NA
X419852	BMGT-18-44-08	13.9	1.4	12.5	5.0
X419853	BMGT-18-45-01	12.1	0.0	12.1	5.1
X419854	BMGT-18-45-02	12.0	0.0	12.0	5.0
X419855	BMGT-18-45-03	14.6	0.9	13.7	5.1
X419856	BMGT-18-45-04	21.5	0.0	21.5	4.9
X419857	BMGT-18-45-05	18.5	0.0	18.5	5.1
X419858	BMGT-18-45-06	16.3	1.0	15.3	5.0
X419859	BMGT-18-92-01	10.1	0.0	10.1	5.0
X419860	Quartz Blank	NA	NA	NA	NA
X419861	BMGT-18-92-02	11.7	0.0	11.7	4.9
X419862	BMGT-18-92-03	17.8	0.0	17.8	5.0
X419863	BMGT-18-92-04	14.4	1.5	12.9	5.1
X419864	BMGT-18-92-05	14.3	0.1	14.2	5.0
X419865	BMGT-18-92-06	21.3	1.5	19.8	5.0
X419866	BMGT-18-92-07	12.3	0.0	12.3	4.9
X419867	BMGT-18-92-08	17.9	1.5	16.4	4.9
X419868	BMGT-18-92-09	21.7	2.0	19.7	5.0
X419869	BMGT-18-92-10A	24.6	1.7	22.9	5.0
X419870	BMGT-18-92-10B	16.9	0.0	16.9	5.0
X419871	Standard 2.16% Co	NA	NA	NA	NA
X419872	BMGT-18-93-01	10.4	0.0	10.4	5.0
X419873	BMGT-18-93-02	12.2	0.8	11.4	5.0
X419874	BMGT-18-93-03	24.7	0.4	24.3	5.0
X419875	BMGT-18-93-04	14.8	1.0	13.8	4.9
X419876	BMGT-18-94-01	14.3	0.4	13.9	4.9
X419877	BMGT-18-95-01	11.0	0.0	11.0	5.0
X419878	BMGT-18-95-02	16.6	1.3	15.3	5.1
X419879	BMGT-18-95-03	11.7	0.0	11.7	4.9
X419880	Quartz Blank	NA	NA	NA	NA
X419881	BMGT-18-95-04	13.6	0.7	12.9	5.0
X419882	BMGT-18-95-05	17.4	0.1	17.3	5.0
X419883	BMGT-18-95-06	18.7	0.7	18.0	5.0
X419884	BMGT-18-95-07	14.0	0.0	14.0	5.0
X419885	BMGT-18-95-08	18.2	0.9	17.3	5.0
X419886	BMGT-18-95-09	15.7	0.0	15.7	5.1
X419887	BMGT-18-95-10	14.7	0.4	14.3	4.9
X419888	BMGT-18-95-11	11.7	0.0	11.7	5.1
X419889	BMGT-18-95-12A	17.7	0.0	17.7	5.0
X419890	BMGT-18-95-12B	11.7	0.0	11.7	5.1
X419891	Standard 2.16% Co	NA	NA	NA	NA
X419892	BMGT-18-96-01	10.7	0.0	10.7	5.0

*Weight of standing water on top of sample when received. Water was decanted and discarded prior to preparing sample splits.

Bulk Sample Processing Weights

Client: Battery Minerals

File Name: 20187894 - Battery Minerals - Doyle - BMGT18 - Oct 2018

Total Number of Samples in this Report: 94

ODM Batch Number(s): 7934

ALS Tag #	Sample Number	Damp Weight (kg)			
		Total (as Rec'd)	Standing Water*	Settled Sample	
				Total	Tabling Split
X419893	BMGT-18-96-02	14.4	0.1	14.3	5.0
X419894	BMGT-18-96-03	14.2	0.0	14.2	5.0
X419895	BMGT-18-96-04	16.5	1.4	15.1	5.0
X419896	BMGT-18-96-05	21.1	2.9	18.2	5.0
X419897	BMGT-18-96-06	26.8	0.8	26.0	5.0
X419898	BMGT-18-96-07	14.1	0.0	14.1	5.0
X419899	BMGT-18-96-08	14.0	0.0	14.0	5.0
X419900	Quartz Blank	NA	NA	NA	NA
X419901	BMGT-18-96-09	15.0	0.0	15.0	5.0
X419902	BMGT-18-96-10	22.2	1.1	21.1	5.0
X419903	BMGT-18-97-01	9.4	0.0	9.4	5.0
X419904	BMGT-18-97-02	13.2	0.3	12.9	5.0
X419905	BMGT-18-97-03	13.9	0.0	13.9	5.0
X419906	BMGT-18-97-04	15.8	1.3	14.5	5.0
X419907	BMGT-18-97-05	15.8	0.0	15.8	5.0
X419908	BMGT-18-97-06	17.7	0.2	17.5	5.0
X419909	BMGT-18-97-07A	13.9	0.0	13.9	5.0
X419910	BMGT-18-97-07B	7.9	0.0	7.9	5.1
X419911	Standard 2.16% Co	NA	NA	NA	NA
X419912	BMGT-18-97-08	23.3	0.9	22.4	5.1
X419913	BMGT-18-97-09	13.2	0.9	12.3	5.1
X419914	BMGT-18-98-01	9.7	0.0	9.7	5.0
X419915	BMGT-18-98-02	22.4	0.7	21.7	5.1
X419916	BMGT-18-98-03	10.1	0.9	9.2	5.1
X419917	BMGT-18-98-04	11.8	0.6	11.2	5.0
X419918	BMGT-18-98-05	17.0	0.1	16.9	5.0
X419919	BMGT-18-98-06	12.6	1.8	10.8	5.1
X419920	Quartz Blank	NA	NA	NA	NA
X419921	BMGT-18-98-07	14.4	0.3	14.1	5.0
X419922	BMGT-18-98-08	14.5	0.6	13.9	5.0
X419923	BMGT-18-98-09	13.3	0.3	13.0	5.0
X419924	BMGT-18-98-10	12.3	0.8	11.5	5.0
X419925	BMGT-18-98-11	10.9	0.4	10.5	5.0
X419926	BMGT-18-99-01	12.5	0.0	12.5	5.0
X419927	BMGT-18-99-02	11.1	0.6	10.5	5.0
X419928	BMGT-18-99-03	21.6	0.2	21.4	5.0
X419929	BMGT-18-99-04A	16.6	1.0	15.6	5.0
X419930	BMGT-18-99-04B	9.6	0.0	9.6	5.0
X419931	Standard OREAS-603	NA	NA	NA	NA
X419932	BMGT-18-99-05	15.7	1.8	13.9	5.0
X419933	BMGT-18-99-06	9.9	0.0	9.9	5.0
X419934	BMGT-18-100-01	10.7	0.0	10.7	5.0

*Weight of standing water on top of sample when received. Water was decanted and discarded prior to preparing sample splits.

Bulk Sample Processing Weights

Client: Battery Minerals

File Name: 20187894 - Battery Minerals - Doyle - BMGT18 - Oct 2018

Total Number of Samples in this Report: 94

ODM Batch Number(s): 7934

ALS Tag #	Sample Number	Damp Weight (kg)			
		Total (as Rec'd)	Standing Water*	Settled Sample	
				Total	Tabling Split
X419935	BMGT-18-100-02	11.1	0.1	11.0	5.0
X419936	BMGT-18-100-03	10.2	0.0	10.2	5.0
X419937	BMGT-18-100-04	14.7	0.8	13.9	5.0
X419938	BMGT-18-100-05	15.4	0.0	15.4	5.0
X419939	BMGT-18-100-06	19.7	1.3	18.4	5.0
X419940	Quartz Blank	NA	NA	NA	NA
X419941	BMGT-18-100-07	13.2	0.0	13.2	5.0
X419942	BMGT-18-100-08	17.7	0.6	17.1	5.0
X419943	BMGT-18-100-09	9.7	0.0	9.7	5.0
X419944	BMGT-18-100-10	11.8	0.3	11.5	4.9
X419945	BMGT-18-100-11	16.9	0.1	16.8	4.9
X419946	BMGT-18-100-12	10.3	0.1	10.2	5.0
X419947	BMGT-18-101-01	9.8	0.0	9.8	4.9
X419948	BMGT-18-101-02	12.4	0.3	12.1	5.1
X419949	BMGT-18-101-03A	16.9	0.2	16.7	4.9
X419950	BMGT-18-101-03B	10.6	0.0	10.6	4.9
X419951	Standard OREAS-603	NA	NA	NA	NA
X419952	BMGT-18-101-04	17.4	1.6	15.8	4.9
X419953	BMGT-18-101-05	16.9	0.0	16.9	5.0
X419954	BMGT-18-101-06	14.7	0.8	13.9	5.1
X419955	BMGT-18-101-07	15.1	1.5	13.6	5.0
X419956	BMGT-18-101-08	17.1	0.0	17.1	4.9
X419957	BMGT-18-101-09	14.2	0.2	14.0	5.0
X419958	BMGT-18-101-10	15.8	0.0	15.8	4.9
X419959	BMGT-18-101-11	11.7	0.0	11.7	4.9
X419960	Quartz Blank	NA	NA	NA	NA
X419961	BMGT-18-101-12	14.5	0.0	14.5	5.1

*Weight of standing water on top of sample when received. Water was decanted and discarded prior to preparing sample splits.

Geochemical Split Weights and Moisture Content

Client: Battery Mineral Resources Ltd.

File Name: 20187894 - Battery Minerals - Doyle - BMGT18 - October 2018

Total Number of Samples in this Report: 94

ODM Batch Number(s): 7934

ALS Tag #	Sample Number	Geochemical Split Weight (g)		Moisture Content (%)
		Damp	Dry	
X419851	Standard 2.16% Co	NA	61.2	0.0
X419852	BMGT-18-44-08	1030.2	847.0	21.6
X419853	BMGT-18-45-01	1027.1	981.4	4.7
X419854	BMGT-18-45-02	1037.9	986.8	5.2
X419855	BMGT-18-45-03	1118.6	916.4	22.1
X419856	BMGT-18-45-04	1122.0	947.1	18.5
X419857	BMGT-18-45-05	1096.4	915.2	19.8
X419858	BMGT-18-45-06	1255.1	1058.8	18.5
X419859	BMGT-18-92-01	1098.0	942.8	16.5
X419860	Quartz Blank	NA	102.0	0.0
X419861	BMGT-18-92-02	1200.9	1003.9	19.6
X419862	BMGT-18-92-03	1004.7	864.4	16.2
X419863	BMGT-18-92-04	1067.9	891.6	19.8
X419864	BMGT-18-92-05	1160.3	976.9	18.8
X419865	BMGT-18-92-06	1207.2	1013.2	19.1
X419866	BMGT-18-92-07	1174.9	937.3	25.3
X419867	BMGT-18-92-08	1174.8	978.2	20.1
X419868	BMGT-18-92-09	1045.0	870.7	20.0
X419869	BMGT-18-92-10A	1105.1	888.8	24.3
X419870	BMGT-18-92-10B	1055.9	854.4	23.6
X419871	Standard 2.16% Co	NA	60.0	0.0
X419872	BMGT-18-93-01	1005.5	864.4	16.3
X419873	BMGT-18-93-02	956.6	801.9	19.3
X419874	BMGT-18-93-03	956.0	804.0	18.9
X419875	BMGT-18-93-04	1036.8	863.4	20.1
X419876	BMGT-18-94-01	1046.9	873.3	19.9
X419877	BMGT-18-95-01	980.3	920.3	6.5
X419878	BMGT-18-95-02	985.5	815.8	20.8
X419879	BMGT-18-95-03	1056.9	905.3	16.7
X419880	Quartz Blank	NA	128.9	0.0
X419881	BMGT-18-95-04	1086.4	892.4	21.7
X419882	BMGT-18-95-05	1051.8	897.5	17.2
X419883	BMGT-18-95-06	974.6	772.2	26.2
X419884	BMGT-18-95-07	1036.2	854.8	21.2
X419885	BMGT-18-95-08	979.4	801.0	22.3
X419886	BMGT-18-95-09	1001.7	825.3	21.4
X419887	BMGT-18-95-10	1032.6	808.7	27.7
X419888	BMGT-18-95-11	993.2	679.6	46.1
X419889	BMGT-18-95-12A	952.8	731.9	30.2
X419890	BMGT-18-95-12B	896.3	686.0	30.7
X419891	Standard 2.16% Co	NA	60.1	0.0
X419892	BMGT-18-96-01	1045.5	964.4	8.4
X419893	BMGT-18-96-02	1052.5	874.3	20.4
X419894	BMGT-18-96-03	1073.7	905.3	18.6
X419895	BMGT-18-96-04	994.7	804.6	23.6
X419896	BMGT-18-96-05	1044.1	873.3	19.6

Geochemical Split Weights and Moisture Content

Client: Battery Mineral Resources Ltd.

File Name: 20187894 - Battery Minerals - Doyle - BMGT18 - October 2018

Total Number of Samples in this Report: 94

ODM Batch Number(s): 7934

ALS Tag #	Sample Number	Geochemical Split Weight (g)		Moisture Content (%)
		Damp	Dry	
X419897	BMGT-18-96-06	1022.0	833.4	22.6
X419898	BMGT-18-96-07	1095.6	771.7	42.0
X419899	BMGT-18-96-08	1135.9	854.5	32.9
X419900	Quartz Blank	NA	125.1	0.0
X419901	BMGT-18-96-09	1026.9	860.0	19.4
X419902	BMGT-18-96-10	1029.4	809.8	27.1
X419903	BMGT-18-97-01	1086.1	971.0	11.9
X419904	BMGT-18-97-02	1017.5	845.4	20.4
X419905	BMGT-18-97-03	947.2	811.1	16.8
X419906	BMGT-18-97-04	926.4	751.8	23.2
X419907	BMGT-18-97-05	979.2	809.4	21.0
X419908	BMGT-18-97-06	996.7	673.9	47.9
X419909	BMGT-18-97-07A	1006.2	868.3	15.9
X419910	BMGT-18-97-07B	1048.3	904.2	15.9
X419911	Standard 2.16% Co	NA	60.5	0.0
X419912	BMGT-18-97-08	1004.9	756.5	32.8
X419913	BMGT-18-97-09	1081.7	851.5	27.0
X419914	BMGT-18-98-01	969.6	802.9	20.8
X419915	BMGT-18-98-02	998.3	813.0	22.8
X419916	BMGT-18-98-03	1031.6	706.2	46.1
X419917	BMGT-18-98-04	1025.9	759.2	35.1
X419918	BMGT-18-98-05	966.5	808.6	19.5
X419919	BMGT-18-98-06	985.1	775.0	27.1
X419920	Quartz Blank	NA	64.2	0.0
X419921	BMGT-18-98-07	980.5	737.9	32.9
X419922	BMGT-18-98-08	989.5	773.7	27.9
X419923	BMGT-18-98-09	1017.4	754.3	34.9
X419924	BMGT-18-98-10	1049.2	841.5	24.7
X419925	BMGT-18-98-11	977.1	777.7	25.6
X419926	BMGT-18-99-01	968.9	802.2	20.8
X419927	BMGT-18-99-02	968.1	722.2	34.0
X419928	BMGT-18-99-03	1038.8	860.2	20.8
X419929	BMGT-18-99-04A	1019.7	810.8	25.8
X419930	BMGT-18-99-04B	1001.4	795.8	25.8
X419931	Standard OREAS 603	NA	60.1	0.0
X419932	BMGT-18-99-05	981.3	829.9	18.2
X419933	BMGT-18-99-06	1038.1	844.8	22.9
X419934	BMGT-18-100-01	1024.1	966.1	6.0
X419935	BMGT-18-100-02	997.7	838.0	19.1
X419936	BMGT-18-100-03	1005.7	860.5	16.9
X419937	BMGT-18-100-04	1014.2	831.5	22.0
X419938	BMGT-18-100-05	972.8	822.0	18.3
X419939	BMGT-18-100-06	997.5	816.0	22.2
X419940	Quartz Blank	NA	121.4	0.0
X419941	BMGT-18-100-07	1048.7	862.1	21.6
X419942	BMGT-18-100-08	1037.7	836.7	24.0

Geochemical Split Weights and Moisture Content

Client: Battery Mineral Resources Ltd.

File Name: 20187894 - Battery Minerals - Doyle - BMGT18 - October 2018

Total Number of Samples in this Report: 94

ODM Batch Number(s): 7934

ALS Tag #	Sample Number	Geochemical Split Weight (g)		Moisture Content (%)
		Damp	Dry	
X419943	BMGT-18-100-09	1022.0	765.5	33.5
X419944	BMGT-18-100-10	1076.8	805.1	33.7
X419945	BMGT-18-100-11	1077.6	826.3	30.4
X419946	BMGT-18-100-12	1092.6	801.6	36.3
X419947	BMGT-18-101-01	1052.9	876.8	20.1
X419948	BMGT-18-101-02	969.3	804.2	20.5
X419949	BMGT-18-101-03A	1043.3	828.5	25.9
X419950	BMGT-18-101-03B	1021.2	828.3	23.3
X419951	Standard OREAS 603	NA	60.0	0.0
X419952	BMGT-18-101-04	1047.6	855.8	22.4
X419953	BMGT-18-101-05	1134.2	848.0	33.8
X419954	BMGT-18-101-06	1133.8	913.5	24.1
X419955	BMGT-18-101-07	1199.4	988.4	21.3
X419956	BMGT-18-101-08	1208.9	955.8	26.5
X419957	BMGT-18-101-09	1085.6	829.8	30.8
X419958	BMGT-18-101-10	1277.0	917.3	39.2
X419959	BMGT-18-101-11	1170.8	823.4	42.2
X419960	Quartz Blank	NA	122.0	0.0
X419961	BMGT-18-101-12	1246.6	925.0	34.8



Overburden Drilling Management Limited
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Laboratory Data Report

Client Information

Battery Mineral Resources Ltd.
Suite 5600 - 500 King street West
Toronto, ON
M5X 1C9

pedoyle56@icloud.com

Attention: Mr. Peter Doyle

Data-File Information

Date: May 13, 2019
Project name: BMGT-18

ODM batch number: 8069
Sample numbers: BMGT-18-09-01 to 09-07, 09-09 to 09-11, 15-01, 15-02A, 15-02B,
15-04, 15-06 to 15-10 and 15-13
Data file: 20198069 - Battery Minerals - Gowganda Tailings - May 2019

Number of samples in this report: 20
Number of samples processed to date: 20
Total number of samples in project: 20

Preliminary data:
Final data:
Revised data:

Samples Processed For: Silver, HMCs

Processing Specifications:

1. Submitted by client: Tailings samples representing 1.0 m core sections from rotasonic drill holes.
2. One 5 kg split processed from 20 selected samples.
3. All samples panned for silver, and fine-grained metallic indicator minerals.
4. Shaking table concentrates refined by heavy liquid separation at S.G. 3.3 to create heavy mineral concentrates (HMCs).

Notes

Mike Crawford
Laboratory Manager

Primary Sample Processing Weights and Descriptions

Client: Battery Mineral Resources Ltd.

File Name: 20198069 - Battery Minerals - Gowganda Tailings - May 2019

Total Number of Samples in this Report: 20

ODM Batch Number(s): 8069

Sample Number	Weight (kg damp)						Screening and Shaking Table Sample Descriptions											Class		
							Clasts (+2.0 mm)					Matrix (-2.0 mm)								
	Bulk	Archived Split	Geochem Split	Table Split	+2.0 mm Clasts	Table Feed	Size	Percentage				Distribution				Colour				
								V/S	GR	LS	OT	S/U	SD	ST	CY	ORG	SD		CY	
BMGT-18-09-01	11.2	5.1	1.2	4.9	0.0	4.9		No Clasts					S	FM	-	N	N	GG	NA	TAILINGS
BMGT-18-09-02	11.8	5.6	1.1	5.1	0.0	5.1		No Clasts					S	FM	-	N	N	GG	NA	TAILINGS
BMGT-18-09-03	12.6	6.4	1.1	5.1	0.0	5.1		No Clasts					S	FM	-	N	N	GG	NA	TAILINGS
BMGT-18-09-04	10.9	4.8	1.1	5.0	0.0	5.0		No Clasts					S	FM	-	N	N	GG	NA	TAILINGS
BMGT-18-09-05	13.0	6.9	1.2	4.9	0.0	4.9		No Clasts					S	FM	-	N	N	GG	NA	TAILINGS
BMGT-18-09-06	14.1	8.1	1.0	5.0	0.0	5.0		No Clasts					S	FM	-	N	N	GG	NA	TAILINGS
BMGT-18-09-07	17.1	11.1	1.1	4.9	0.0	4.9		No Clasts					S	FM	-	N	N	GG	NA	TAILINGS
BMGT-18-09-09	16.0	9.9	1.1	5.0	0.0	5.0		No Clasts					S	F	-	N	N	GG	NA	TAILINGS
BMGT-18-09-10	10.9	4.8	1.0	5.1	0.0	5.1		No Clasts					S	F	-	Y	N	GG	GG	TAILINGS
BMGT-18-09-11	8.7	2.7	1.1	4.9	0.0	4.9		No Clasts					S	FM	-	N	N	GG	NA	TAILINGS
BMGT-18-15-01	18.4	12.4	1.1	4.9	0.0	4.9		No Clasts					S	FM	-	N	N	GG	NA	TAILINGS
BMGT-18-15-02A	22.2	16.2	1.0	5.0	0.0	5.0		No Clasts					S	FM	-	N	N	GG	NA	TAILINGS
BMGT-18-15-02B	16.2	10.2	1.0	5.0	0.0	5.0		No Clasts					S	FM	-	N	N	GG	NA	TAILINGS
BMGT-18-15-04	18.1	12.0	1.1	5.0	0.0	5.0		No Clasts					S	FM	-	N	N	GG	NA	TAILINGS
BMGT-18-15-06	24.1	18.0	1.1	5.0	0.0	5.0		No Clasts					S	FM	-	N	N	GG	NA	TAILINGS
BMGT-18-15-07	12.4	6.3	1.1	5.0	0.0	5.0		No Clasts					S	FM	-	N	N	GG	NA	TAILINGS
BMGT-18-15-08	12.5	6.4	1.1	5.0	0.0	5.0		No Clasts					S	FM	-	N	N	GG	NA	TAILINGS
BMGT-18-15-09	12.2	6.2	1.0	5.0	0.0	5.0		No Clasts					S	FM	-	N	N	GG	NA	TAILINGS
BMGT-18-15-10	12.0	6.2	0.9	4.9	0.0	4.9		No Clasts					S	FM	-	N	N	GG	NA	TAILINGS
BMGT-18-15-13	5.8	0.3	1.0	4.5	0.0	4.5		No Clasts					S	FM	-	Y	N	GG	GG	TAILINGS

Silver Grain Summary

Client: Battery Mineral Resources Ltd.

File Name: 20198069 - Battery Minerals - Gowganda Tailings - May 2019

Total Number of Samples in this Report: 20

ODM Batch Number(s): 8069

Sample Number	Number of Visible Silver Grains				Nonmag HMC Weight (g)	Calculated PPB Visible Silver in HMC			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
BMGT-18-09-01	166	166	0	0	4.9	1	1	0	0
BMGT-18-09-02	366	366	0	0	5.1	7	7	0	0
BMGT-18-09-03	120	120	0	0	5.1	9	9	0	0
BMGT-18-09-04	200	200	0	0	5.0	4	4	0	0
BMGT-18-09-05	180	180	0	0	4.9	1	1	0	0
BMGT-18-09-06	298	298	0	0	5.0	7	7	0	0
BMGT-18-09-07	97	97	0	0	4.9	1	1	0	0
BMGT-18-09-09	7	7	0	0	5.0	<1	<1	0	0
BMGT-18-09-10	24	24	0	0	5.1	<1	<1	0	0
BMGT-18-09-11	106	106	0	0	4.9	<1	<1	0	0
BMGT-18-15-01	249	249	0	0	4.9	4	4	0	0
BMGT-18-15-02A	3100	3100	0	0	5.0	69	69	0	0
BMGT-18-15-02B	4450	4450	0	0	5.0	117	117	0	0
BMGT-18-15-04	328	328	0	0	5.0	6	6	0	0
BMGT-18-15-06	257	257	0	0	5.0	4	4	0	0
BMGT-18-15-07	34	34	0	0	5.0	<1	<1	0	0
BMGT-18-15-08	19	19	0	0	5.0	<1	<1	0	0
BMGT-18-15-09	14	14	0	0	5.0	<1	<1	0	0
BMGT-18-15-10	12	12	0	0	4.9	<1	<1	0	0
BMGT-18-15-13	25	25	0	0	4.5	<1	<1	0	0

Detailed Silver Grain Data

Client: Battery Mineral Resources Ltd.

File Name: 20198069 - Battery Minerals - Gowganda Tailings - May 2019

Total Number of Samples in this Report: 20

ODM Batch Number(s): 8069

Sample Number	Dimensions (μm)			Number of Silver Grains	Tabled Sample Weight (kg)	Calculated Silver Grade of Sample (ppm or g/t)	Metallic Minerals in Pan Concentrate
	Thickness	Width	Length				
BMGT-18-09-01	15	C	50	100	150	0.017	~1% undifferentiated Co/Fe arsenides (25-500 μm). SEM checks: 8 loellingite/arsenopyrite versus cobaltite candidates = 4 loellingite; 2 loellingite + Co; 1 loellingite + Ag, and 1 arsenopyrite + Co.
	54	C	100	500	9	0.037	
	101	C	500	1000	7	0.542	
					166	4.9		0.597
BMGT-18-09-02	15	C	50	100	200	0.022	~2% undifferentiated Co/Fe arsenides (25-500 μm).
	54	C	100	500	112	0.445	
	101	C	500	1000	40	2.978	
	90	C	1000	2000	14	3.706	
				366	5.1	7.151	
BMGT-18-09-03	15	C	50	100	50	0.006	~2% undifferentiated Co/Fe arsenides (25-500 μm).
	54	C	100	500	15	0.060	
	101	C	500	1000	30	2.233	
	90	C	1000	2000	25	6.618	
				120	5.1	8.916	
BMGT-18-09-04	15	C	50	100	100	0.011	~1% undifferentiated Co/Fe arsenides (25-250 μm).
	54	C	100	500	68	0.275	
	101	C	500	1000	27	2.050	
	90	C	1000	2000	5	1.350	
				200	5.0	3.687	
BMGT-18-09-05	15	C	50	100	150	0.017	~1% undifferentiated Co/Fe arsenides (25-250 μm).
	54	C	100	500	20	0.083	
	101	C	500	1000	10	0.775	
				180	4.9	0.875	
BMGT-18-09-06	15	C	50	100	150	0.017	~1% undifferentiated Co/Fe arsenides (25-250 μm).
	54	C	100	500	92	0.373	
	101	C	500	1000	44	3.341	
	90	C	1000	2000	12	3.240	
				298	5.0	6.971	
BMGT-18-09-07	15	C	50	100	50	0.006	~1% undifferentiated Co/Fe arsenides (25-250 μm).
	54	C	100	500	34	0.141	
	101	C	500	1000	12	0.930	
	90	C	1000	2000	1	0.276	
				97	4.9	1.352	
BMGT-18-09-09	15	C	50	100	5	0.001	~0.5% undifferentiated Co/Fe arsenides (25-250 μm).
	54	C	100	500	2	0.008	
					7	5.0		0.009
BMGT-18-09-10	15	C	50	100	20	0.002	~1% undifferentiated Co/Fe arsenides (25-250 μm).
	54	C	100	500	4	0.016	
					24	5.1		0.018
BMGT-18-09-11	15	C	50	100	100	0.012	~0.5% undifferentiated Co/Fe arsenides (25-250 μm).
	54	C	100	500	6	0.025	
					106	4.9		0.036
BMGT-18-15-01	15	C	50	100	200	0.023	~2% undifferentiated Co/Fe arsenides (25-500 μm).
	54	C	100	500	26	0.107	
	101	C	500	1000	13	1.007	
	90	C	1000	2000	10	2.755	
				249	4.9	3.893	

Detailed Silver Grain Data

Client: Battery Mineral Resources Ltd.

File Name: 20198069 - Battery Minerals - Gowganda Tailings - May 2019

Total Number of Samples in this Report: 20

ODM Batch Number(s): 8069

Sample Number	Dimensions (μm)			Number of Silver Grains	Tabled Sample Weight (kg)	Calculated Silver Grade of Sample (ppm or g/t)	Metallic Minerals in Pan Concentrate
	Thickness	Width	Length				
BMGT-18-15-02A	15	C	50	100	1500	0.171	~5% undifferentiated Co/Fe arsenides (25-500 μm).
	54	C	100	500	1000	4.050	
	101	C	500	1000	500	37.969	
	90	C	1000	2000	100	27.000	
					<u>3100</u>	5.0	69.190
BMGT-18-15-02B	15	C	50	100	2000	0.228	~5% undifferentiated Co/Fe arsenides (25-500 μm).
	54	C	100	500	1500	6.075	
	101	C	500	1000	750	56.953	
	90	C	1000	2000	200	54.000	
					<u>4450</u>	5.0	117.256
BMGT-18-15-04	15	C	50	100	200	0.023	~2% undifferentiated Co/Fe arsenides (25-500 μm).
	54	C	100	500	80	0.324	
	101	C	500	1000	40	3.038	
	90	C	1000	2000	8	2.160	
					<u>328</u>	5.0	5.544
BMGT-18-15-06	15	C	50	100	150	0.017	~2% undifferentiated Co/Fe arsenides (25-250 μm).
	54	C	100	500	70	0.284	
	101	C	500	1000	32	2.430	
	90	C	1000	2000	5	1.350	
					<u>257</u>	5.0	4.081
BMGT-18-15-07	15	C	50	100	20	0.002	~1% undifferentiated Co/Fe arsenides (25-250 μm).
	54	C	100	500	14	0.057	
					<u>34</u>	5.0	0.059
BMGT-18-15-08	15	C	50	100	10	0.001	~1% undifferentiated Co/Fe arsenides (25-250 μm).
	54	C	100	500	7	0.028	
	101	C	500	1000	2	0.152	
					<u>19</u>	5.0	0.181
BMGT-18-15-09	15	C	50	100	10	0.001	~1% undifferentiated Co/Fe arsenides (25-250 μm).
	54	C	100	500	3	0.012	
	101	C	500	1000	1	0.076	
					<u>14</u>	5.0	0.089
BMGT-18-15-10	15	C	50	100	10	0.001	~0.5% undifferentiated Co/Fe arsenides (25-250 μm).
	54	C	100	500	2	0.008	
					<u>12</u>	4.9	0.009
BMGT-18-15-13	15	C	50	100	20	0.003	Tr (~2000 grains) undifferentiated Co/Fe arsenides (25-250 μm).
	54	C	100	500	5	0.023	
					<u>25</u>	4.5	0.025

-2.0 mm Heavy Mineral Concentrate Processing Weights

Client: Battery Mineral Resources Ltd.

File Name: 20198069 - Battery Minerals - Gowganda Tailings - May 2019

Total Number of Samples in this Report: 20

ODM Batch Number(s): 8069

ALS Tag #	Sample Number	Weight of -2.0 mm Table Concentrate (g)				
		Total	Heavy Liquid Separation at S.G. 3.3			
			Lights S.G <3.2	HMC		
				Total	Mag	Non Mag
Y952607	BMGT-18-09-01	179.4	113.7	65.7	6.4	59.3
Y952608	BMGT-18-09-02	382.9	226.7	156.2	8.8	147.4
Y952609	BMGT-18-09-03	301.4	175.3	126.1	7.4	118.7
Y952610	BMGT-18-09-04	352.1	201.1	151.0	11.6	139.4
Y952611	BMGT-18-09-05	364.9	280.7	84.2	8.5	75.7
Y952612	BMGT-18-09-06	318.0	244.6	73.4	5.6	67.8
Y952613	BMGT-18-09-07	404.5	327.9	76.6	6.0	70.6
Y952614	BMGT-18-09-09	254.4	237.4	17.0	1.2	15.8
Y952615	BMGT-18-09-10	194.3	189.3	5.0	0.6	4.4
Y952616	BMGT-18-09-11	141.1	120.9	20.2	20.1	0.1
Y952617	BMGT-18-15-01	386.8	263.8	123.0	9.8	113.2
Y952618	BMGT-18-15-02A	410.5	312.8	97.7	10.4	87.3
Y952619	BMGT-18-15-02B	315.3	210.5	104.8	10.7	94.1
Y952620	BMGT-18-15-04	363.7	270.7	93.0	8.6	84.4
Y952621	BMGT-18-15-06	349.0	254.8	94.2	9.8	84.4
Y952622	BMGT-18-15-07	355.7	307.8	47.9	4.5	43.4
Y952623	BMGT-18-15-08	380.9	303.2	77.7	11.1	66.6
Y952624	BMGT-18-15-09	287.7	237.7	50.0	6.1	43.9
Y952625	BMGT-18-15-10	364.1	304.6	59.5	6.6	52.9
Y952626	BMGT-18-15-13	62.2	60.7	1.5	0.2	1.3

Appendix B

Gravity Processing Weights for the Selected 5 kg Sample Splits

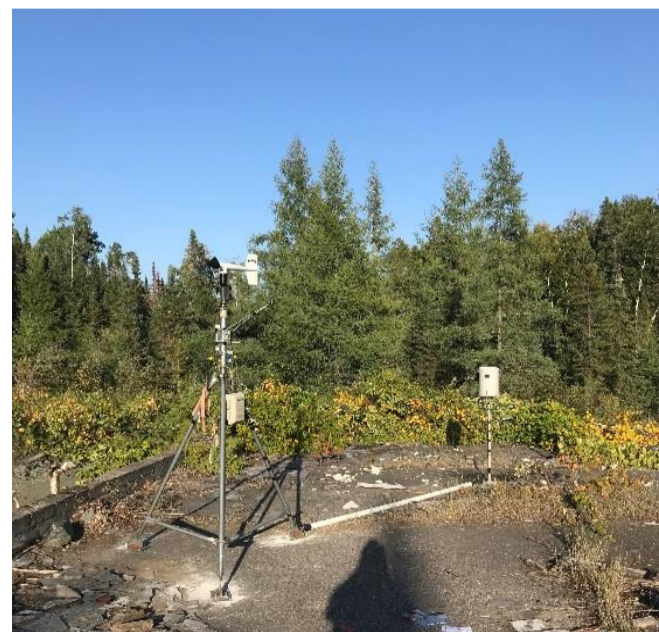
Story Environmental Inc. Battery Minerals Monthly Project Update

Month: September 2018

	Status/Work Completed	Upcoming Work
Project - General		
	SEI Received direction from BMR that the Island 27 work has been suspended.	
Surface Water and Hydrology		
	SEI sent a request for road/trail access improvements to CXS/Battery for McAra and Gowganda	Second round of surface water sampling in October
	The water quality analytical results were received for the first-round of sampling	
	Databases for surface water quality have been set up for each property	
Groundwater		
	Monitoring wells: drilling completed at McAra (one location: nest of three wells) and Gowganda (seven locations: nests of two or three wells, depending on location)	Monitoring wells to be developed, surveyed, and monitored in October
Air and Weather		
	Weather station set up at Gowganda property: issues with data logger, SEI ordered replacement	Completion of weather and air station set-up planned for first week of October
	Air quality station installed at Gowganda property: waiting on second station set-up before beginning program	
	Air quality station within town of Gowganda: SEI spoke with board members of the Gowganda Community Centre who agreed to the use of the property to set up station	
Terrestrial and Aquatics		
	Terrestrial desk-top work is ongoing	
	Licence to Collect Fish for Scientific Purposes was received from Ministry of Natural Resources and Forestry on 24 September 2018	Aquatics field work (fish, sediment, benthic) scheduled for month of October
Rehabilitation		
	Reconnaissance of existing openings was conducted on Gowganda property	SEI is waiting for CXS to have an excavator available/onsite to begin rehabilitation work (delayed until mid October)
	SEI is waiting for new BMR logo and sign off on Hazard Signage before signs are prepared and installed for Gowganda property	



Monitoring Well Installation



Weather Station at Gowganda Property

Story Environmental Inc. Battery Minerals Monthly Project Update

Month: October 2018

	Status/Work Completed	Upcoming Work
Project - General		
		SEI meeting with Warwick 1-2 November
Surface Water and Hydrology		
	Second round of surface water sampling completed	Third round of surface water sampling in November
	Surface water site on Bloom Lake (north of Gowganda site), was not sampled due to poor access	
Groundwater		
	Monitoring wells were developed, surveyed, and monitored	Second round of monitoring in November
Air and Weather		
	Weather station operational and collecting data	
	Air quality stations installed and running at Gowganda Property (exposure) and at Gowganda Community Centre (background)	
	SEI subcontracted and trained two individuals from Auld Reekie Lodge in Gowganda to complete the filter changes for the air stations (occurs every six days)	
Terrestrial and Aquatics		
	Terrestrial desk-top work is ongoing	
	Aquatics field work (fish, sediment, benthic) conducted	
Rehabilitation		
	Reconnaissance of known and unknown features with CXS	Rehabilitation of features
	SEI ordered Hazard Signage for Gowganda property	Hazard Signage to be installed once received from printer



Surface Water Sampling



Groundwater Monitoring (three wells on tailings protected by snow fence)



Mottled Sculpin from Miller Lake



Lake Whitefish from Togo Lake

Story Environmental Inc. Battery Mineral Resources Monthly Project Update

Month: November 2018

	Status/Work Completed	Upcoming Work
Project - General		
	SEI met with Warwick 1-2 November - review of SEI's work to date and Gowganda site visit.	
Surface Water and Hydrology		
	Third round of surface water sampling conducted.	Fourth round of surface water sampling in December
	Lake sites were not sampled at McAra due to unsafe ice conditions.	
Groundwater		
	Second round of monitoring was conducted.	Third round of monitoring in December.
	Slug tests to determine hydraulic conductivity of bedrock commenced .	Remaining slug tests will be completed in the spring.
Air and Weather		
	Weather station operational and collecting data	
	Air quality stations running at Gowganda Property (exposure) and at Gowganda Community Centre (background)	
	Staff from Auld Reekie Lodge in Gowganda has been hired to complete the filter changes for the air stations (occurs every six days). They have agreed to increase their insurance to complete this work and BMR will pay the additional premium.	
Terrestrial and Aquatics		
	Terrestrial desk-top work is ongoing	
Rehabilitation		
	Shaft (87691): open shaft was excavated and dewatered (down 5 metres) to obtain dimensions and internal shape. Temporary fencing installed around opening.	Rehab will commence in the spring.
	Notification signs (9 strategic locations) installed on the property to inform users that mine hazards are present and, in some cases, they are on private property.	
	Former Mill (Millerett) and Concentrator (Siscoe) reduced heights; covered areas with waste rock and contoured; removed and consolidated debris (wood, metal and garbage); metal to recycling; wood debris burned; and garbage to landfill.	Rehab will recommence in the spring.
	Investigated and assessed locations of 7 undocumented mine hazards.	Report to be prepared.
	Exposed 6 concrete caps to determine foundation (bedrock / overburden) and determine depth of collar.	Report to be prepared.
	Contacted geotechnical engineer to perform a dam safety inspection of tailings dams in accordance with new provincial requirements.	On hold until spring 2019
	Bonsall Adit	On hold until spring 2019
	Resolved Issues in AMIS Database	Prepare a report for ENDM in 2019 to resolve the discrepancies in the database.
	Temporary fencing installed around Open cut that is showing subsidence.	Install chain link around open cut in spring 2019

Photos



Surface Water Sampling at Site MC8



Miller Lake (Sampling Site GO2)



Dewatering Shaft (87691)



Demolition of Millerett Mill Foundations

Story Environmental Inc. Battery Mineral Resources Monthly Project Update

Month: December 2018

	Status/Work Completed/Ongoing	Upcoming Work
Project - General		
Surface Water and Hydrology		
	Fourth round of surface water sampling scheduled for December 2018 was rescheduled for 2019 when ice conditions will be safe	
Groundwater		
	Borehole logs for monitoring wells are being completed	Third round of monitoring rescheduled for end of January
		Remaining slug tests will be completed in the spring.
Air and Weather		
	Weather station operational and collecting data	
	Air quality stations running at Gowganda Property (exposure) and at Gowganda Community Centre (background)	
	Staff from Auld Reekie Lodge in Gowganda were hired to complete the filter changes for the air stations (occurs every six days). Their insurance was increased to complete this work.	
Terrestrial and Aquatics		
	Terrestrial desk-top work is ongoing	
Rehabilitation		
	Shaft 87691: Temporary fencing and signage installed around opening	Rehab will commence in the spring.
	Notification signs (hazard/private property): some signs have been taken down/are missing (of the 9 locations: 1 confirmed missing & 2 could not be located). KMZ file of sign locations attached (in email).	SEI to confirm with CXS re. installation details, missing signs, and possibly moving one of the signs
	Report for ENDM re. the discrepancies in the AMIS database is ongoing	
	Update Report for ENDM re. rehab activities undertaken on property is ongoing	

Photos



Property/Danger Sign: facing west where vehicles first enter Battery's (Millerett) property from intersection (groundwater wells marked with snow fence in center of photograph). Location 6 in KMZ.



Property/Caution Sign: facing north where vehicles first enter Battery's property from north. Location 9 in KMZ.



Danger/No Trespassing Sign: facing southwest where vehicles could enter Battery's (Miller O'Brien) property. Location 2 in KMZ.



Temporary Fencing Installed around Shaft