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BATTERY

MINERAL RESOURCES

Report on Diamond Drilling at the Gowganda BMR/ Transition
Project, Gowganda East Target, Haultain Township, Ontario,
Canada

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1. OVERVIEW

1.1 PROJECT NAME

This project is known as the **Gowganda Transition Gold and Cobalt Project, Gowganda East Target.**

1.2 SUMMARY

Battery Mineral Resources Corp. conducted a program of diamond drilling on the Gowganda East Target which forms part of the area covered by a joint venture agreement between Battery Mineral Resources Corp. (BMR) and Transition Metals Corp., dated March 2nd, 2019.

The Gowganda East Target forms part of the Gowganda Gold and Cobalt Property which consists of 200 unpatented mining claims covering approximately 3601.15 Ha located in parts of Van Hise, Haultain, Milner, Nicol and Lawson Townships within the Larder Lake Mining Division in Northeastern Ontario. The property is centrally located about Highway 560 adjacent to the unorganized municipality of Gowganda, Ontario and approximately 100 kilometers east of the city of Timiskaming Shores, Ontario.

The work was carried out by G4 Drilling contractors between June 30th and August 19th, 2021. All of the planning, field preparation, logging and technical work was conducted by BMR/ CXS geologists and technicians; overall work was supervised by F Ploeger, and P Doyle of BMR.

Drilling at Gowganda East (Table 1) consisted of two complete drill holes GE21001/002 and 3 additional wedges (GE21001W1/ 001W2/ 001W3) drilled from the initial hole for a total of 2164.91m. Holes were collared adjacent to the Canada Silver Cobalt Works (CSCW)/ Transition claim boundary and targeted the projected on strike extension of the high grade Robinson Silver zone.

All co-ordinates presented in this report are in datum: UTM NAD83, Zone 17N. All work was conducted under exploration permits **PR-21-000056** and **PR-21-000057** on cell claims 108672 and 186256 (legacy claims L4259076 & L1225401).

1.3 ACTIVITIES UNDERTAKEN

Program Dates	Number of Holes	Total Meters	Number of Samples Assayed
June 30- August 19, 2021	2 (plus 3 wedges)	2164.91m	282 (plus 1 hi-grade silver)

Table 1. Gowganda Big Four Diamond Drilling Summary.

2. LOCATION DETAILS

2.1 PROPERTY & LOCATION

The Gowganda Gold and Cobalt Property, Gowganda East target area is registered to Transition Metals Corp. with the property subject to an option and joint venture agreement between Transition Metals Corp. and Battery Mineral Resources Corp. dated March 2nd, 2019.

The project area consists of 200 unpatented mining claims covering approximately 3601.15 Ha, located in parts of Van Hise, Haultain, Milner, Nicol and Lawson Townships, within the Larder Lake mining Division, and centrally located about highway 560 close to the unorganized municipality of Gowganda, Ontario (Figure 1).

The Project is nested amongst the major mining centres of: Kirkland Lake, 115 kilometers to the North; Timmins, 235 kilometers to the northwest; and Sudbury, 250 kilometers to the southwest. The closest major centre to Gowganda is the city of Timiskaming Shores located 100 kilometers to the east.

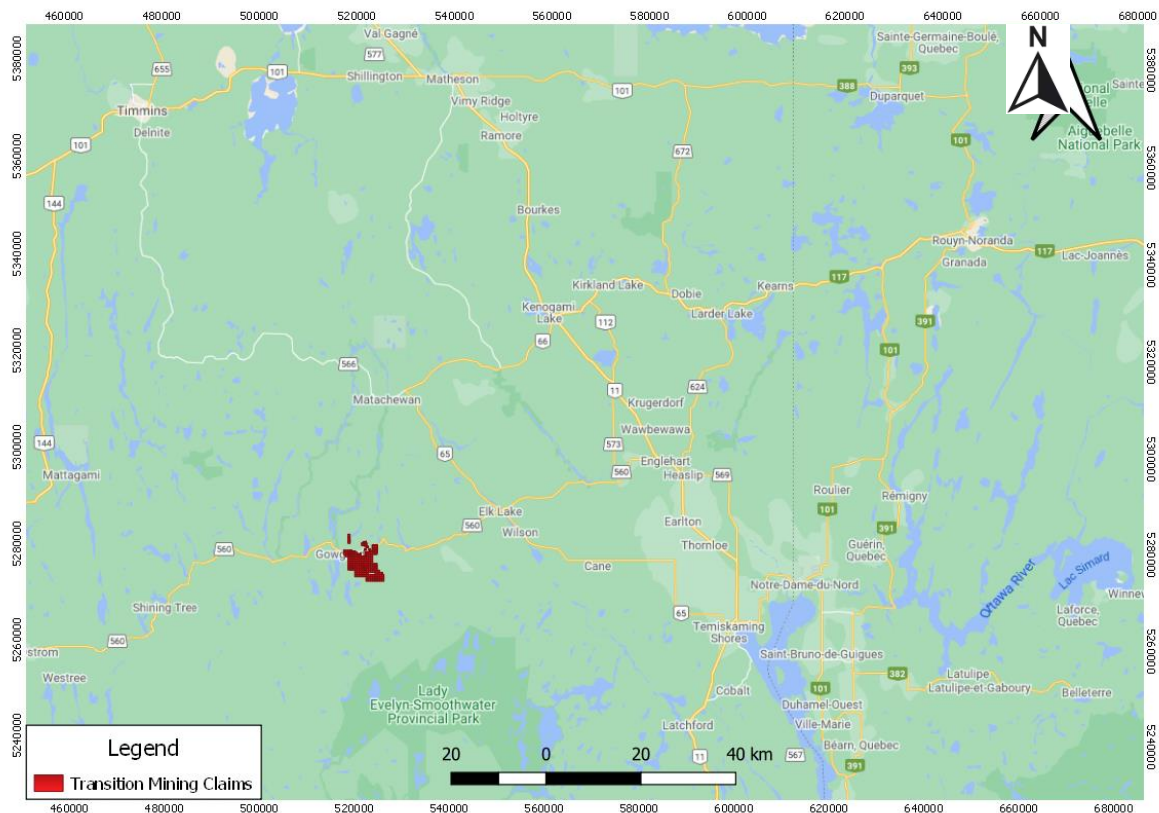


Figure 1. Location of the Gowganda Project, Gowganda East Target area (Map data ©2019 Google)

2.2 ACCESS

The Gowganda East target area is easily accessed via the Everett Lake road north of highway 560, about 2km east of Gowganda, Ontario and 2.5km east of the Miller Lake- O'brien minesite and tailings.

2.3 MINING CLAIMS

The Gowganda Gold and Cobalt Property, a joint venture between Battery Mineral Resources Corp. and Transition Metals Corp, is comprised of a total of 200 unpatented mining claims covering approximately 3601.15 Ha, located in Van Hise, Haultain, Milner, Nicol and Lawson Townships, within the Larder Lake Mining Division (Figure 2). A complete list of claims is provided in Appendix 1.

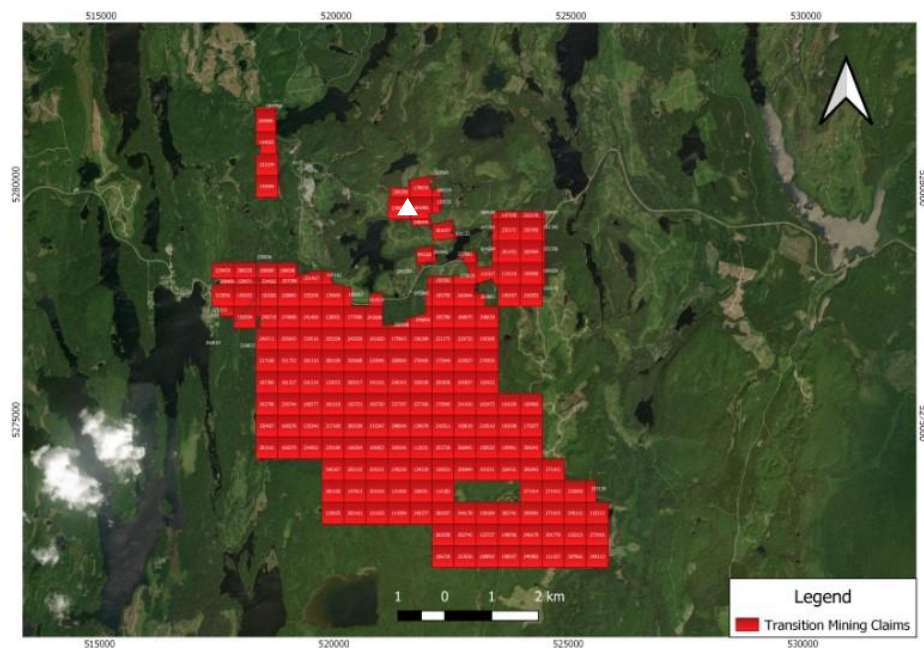


Figure 2. Claim Map showing the BMR/ Transition JV Gowganda Property, Gowganda East location at white triangle.

2.4 PROPERTY & EXPLORATION HISTORY

The early history of the region is summarized in a report prepared for the Ontario Geological Survey by McIlwaine (1978), however, there are numerous additional undocumented pits, trenches, and shafts on the overall property. Abundant additional information is available from the MNDM Kirkland Lake Resident Geologist's assessment files, AMIS reports, LiDAR images and MDI showings for work conducted on the Gowganda property.

The following is a summary of work completed on, or adjacent to, the Gowganda East target area.

1907- 1969: Following the discovery of silver in the town of Cobalt in 1903, prospectors migrated westwards until they discovered silver around Gowganda and Miller Lakes with ensuing production from several properties by 1910. By 1925, over 8.4 million ounces of silver had been produced mainly from the Miller Lake- O'Brien and Castle – Trethewey mines augmented by many lesser producers. By the end of 1969, McIlwaine (1978) reports total production of 60.2 million ounces of silver and 1.33 million pounds of cobalt had been produced from 18 major and minor operations. Production history (Table 2) is taken from McIlwaine (1978).

Gowganda Production					
Township	Mine	Silver (ounces)	Cobalt (pounds)	Nickel (pounds)	Copper (pounds)
Milner	Bartlett	20,219	18		
	Boyd Gordon	4,678			
	Mann	118,942			
	Reeve Dobie	88,584			
	South Bay	1,500			
	Welch	1,000			
Haultain	Bonsall	114,527			
	Capitol	10,837,181	209,474	18,826	
	Castle Trethewey	6,461,021	299,847		
	Miller Lake Everett	3,461			
	Millerett	611,822	5,000		
	Wigwam	896			
Nicol	Miller Lake O'Brien	40,736,585	785,700	13,248	72,946
	Morrison	719,201	22,018		
	Walsh	453,424	3,555		
Totals		60,173,041	1,325,612	32,074	72,946

Table 2: Production Figures for Gowganda Area Mines (from McIlwaine, 1978)

1952- 61: Castlebar Silver and Cobalt Mines Limited

Castlebar reports geological drilling and mapping conducted north of Babs Lake in the vicinity of the old Babs shaft in 1952. Ironically, in his report on the property, McVeigh recommended a series of deep holes targeting possible vein systems similar to those at the past producing mines in Gowganda near the upper contact of the Nipissing Diabase sill at a vertical depth of 244m (800feet), coincidentally, collared exactly where the current BMR holes were drilled.

Three holes were drilled along the northeast strike of a vein zone to the southeast of Babs Lake by Castlebar in 1959, just north of the current drilling. Apparently, several veins were reported in the logs but no assays were provided.

1973: Teme-Augama Anishnabai

The Teme-Augama Anishnabai first nation, exercised a land caution against development on Crown land covering approximately 10 000 square kilometres, mostly within the Temagami area, but extending northwards into the Gowganda area. The Attorney General of Ontario pursued legal action against the Band for this caution and the area was re- opened for exploration in 1998.

1978: Ontario Geological Survey

McIlwaine mapped the Haultain and Nicol Township areas at a scale of 1:31,680 between 1966-1968, producing GR 175 with Map 2349 and preliminary maps P0374 and P0518.

1979: Agnico Eagle Mines Ltd.

The remaining portion of the Castle Trethewey Mines Ltd. Property was optioned to Agnico Eagle Mines Ltd, and some ore was extracted from the area of the Castle No. 3 shaft. Between 1979 and 1989 a total of 101,024 tonnes were milled in the Cobalt mill producing 91,621,823 grams silver (2,945,710 million ounces of silver), 34,356 kilograms (75,742) cobalt, 10,039 kg (22,133lbs) copper and 10,887kg (24,001lbs) nickel (Kirkland Lake Resident Geologists Office files).

1997: Ontario Geological Survey

Conducted a high-density lake sediment and water geochemical survey focusing on the Gowganda area. 1336 lake water samples and 1172 lake sediments were taken. Anomalous metal values including Ag, As, Co, Cu, Pb and Zn were noted within the area.

2006: Temex Resources

Completed the purchase of the Miller Lake O'Brien Silver Property, and related assets and facilities from the Sandy K Mines, which included the former past producing Miller Lake O'Brien Mine (historical production of 40.7 million ounces of silver at an average grade of 22 ounces of silver per ton. Temex performed a preliminary assessment investigating revenue potential from processing the tailings for silver.

2008: Klondike Silver

In 2007-08, Klondike Silver completed a program of diamond drilling around Babs and Flatstone Lakes. Apart from rare narrow intercepts of anomalous cobalt mineralization, no significant silver or cobalt bearing veins were intersected.

2010 - 2018: Transition Metals Corp.

In 2010, Transition Metals Corp. optioned claims from S. Swain and staked additional claims peripheral to these. Between the time of acquiring the claims and 2018, Transition Metals performed extensive work on a series of gold showings designated as the Haultain Gold Prospect to the NW of the Gowganda East area. Work included stripping, mapping and channel sampling of several areas, diamond drilling, a Soil Gas Hydrocarbon test survey, an MMI soil sampling program and structural work. In 2013- 14 Transition conducted prospecting on claims south of Babs Lake east of the Robinson Ag showing, mapping felsic intrusives for possible gold mineralization.

2011-21: Canada Silver Cobalt Works

Between 2011 and 2021, Canada Silver Cobalt Works (CSCW) conducted extensive exploration programs including geophysical surveys, MMI, stripping/ sampling, mapping, and surface and underground drilling on the former Castle Trethewey minesite area. This resulted in two NI 43-101 reports in 2015 and 2020 with an update in 2021. Extensive diamond drill campaigns from numerous orientations targeting a high grade drill intercept (40944 ppm silver and 0.91% cobalt over 0.45m from 564.34- 564.79m in hole CA11-08) designated as the Robinson zone near the eastern CSCW claim boundary with BMR, were combined to generate the 2020 resource. The inferred mineral resource is 32,900 tonnes grading 7,325 g/t (equivalent) yielding 7,752,700 ounces (equivalent).

2018: Battery Mineral Resources Corp.

A high-resolution LiDAR survey was completed in June 2018 over much of the Gowganda Gold and Cobalt property used to identify and accurately locate outcrops and historical exploration features such as shafts, pits and trenches.

2019: Battery Mineral Resources Corp.

Battery Mineral Resources Corp. entered a joint venture option with Transition Metals Corp. on the Gowganda Gold and Cobalt Project.

2.5 REGIONAL & LOCAL GEOLOGY

The geology and history of the Gowganda area is summarized by McIlwaine (1978).

Overview:

Basement rocks of the Superior Craton are composed of a series of granite terranes variably covered by greenstone belts and sedimentary basins that represent the accretion of microcontinents during the Archean and can be further subdivided into sub-provinces. Much of the Archean Craton is unconformably overlain by Paleoproterozoic to Paleozoic siliciclastic rocks, forming irregular paleo-basins.

In the Gowganda area, Paleoproterozoic sedimentary rocks of the Huronian Supergroup unconformably overlie older Archean granites, meta-volcanics and meta-sedimentary rocks of the Abitibi and/or Pontiac Sub-province of the Superior Craton. Nipissing Diabase sills, Proterozoic in age, intrude all lithologies in the region with the exception of the younger mafic/ diabase dykes.

Regional metamorphism reached lower to middle greenschist facies.

Property Scale Geology:

The more detailed geology of the BMR/ Transition JV Property, including the Gowganda East target area, is excerpted from a report by Collins (2010, Figure 3):

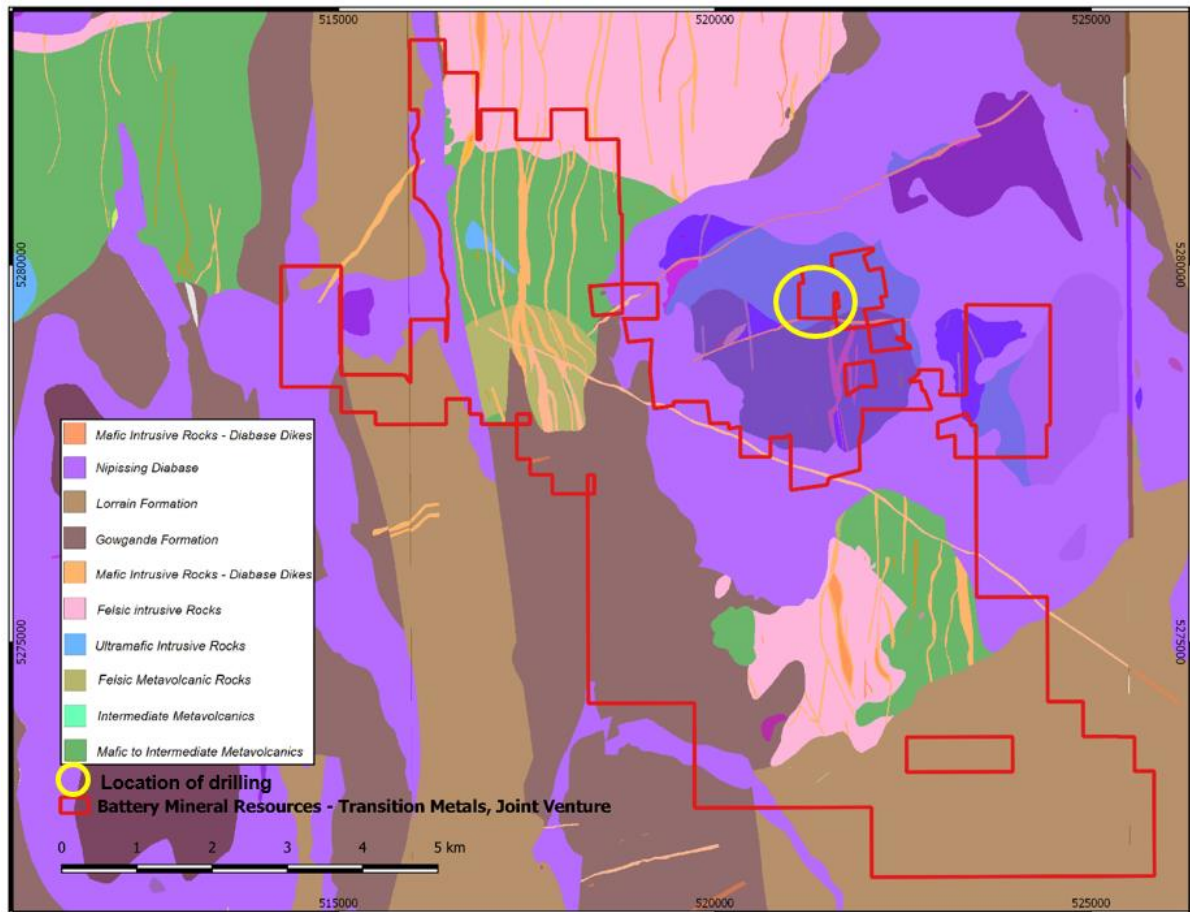


Figure 3. Regional Geology of the BMR/ Transition JV Property (after McIlwaine, 1978).

“An inlier of Archean rocks located in the northwestern portion of the Property, centered in western Haultain Township, consists predominately of ultramafic, mafic, and intermediate to felsic volcanoclastic metavolcanic rocks interbedded with chemical chert-magnetite oxide facies iron formation and clastic metasedimentary rocks (Collins 2010). A series of syn-tectonic gabbro, lamprophyre, and syenite dikes crosscut the metavolcanic and appear to be restricted to the area of the Jacobs Lake Fault. An intermediate to felsic body intrudes the southern portion of the inlier, and intermediate to felsic plutonic rocks of the Round Lake Batholith intrude the metavolcanic rocks along the north edge of the Property. North to northwest-trending Matachewan diabase dike swarms cut all younger units, and several northeast-trending Abitibi diabase dikes cross the Property. The Archean rocks are variably deformed and folded and cut by the northwest-trending Jacobs Lake fault. Regional metamorphism reached lower to middle greenschist facies.

In the southeastern portion of the Property, mainly in Nicol Township, the Archean rocks are overlain by Proterozoic age Huronian Supergroup intruded by sills of Nipissing Gabbro. The Cobalt Formation of the Huronian Supergroup consists of feldspathic arenite, feldspathic

2.6 TARGET OF INTEREST

The diamond drill program was designed to intersect the projected strike extension of the Robinson silver vein on the adjacent CSCW property for which Canada Silver Cobalt Works has established an NI 43-101 inferred resource of 32,900 tonnes grading 7,325 g/t (equivalent) yielding 7,752,700 ounces of silver (equivalent).

All of the planning, field preparation, logging and technical work was conducted by BMR/ CXS geologists and technicians; overall work was supervised by F Ploeger, and P Doyle of BMR.

3. DRILLING

3.1 PERMITS

Permits for exploration drilling at the Gowganda East BMR Transition JV target are **PR-21-000056 and PR-21-000057**.

3.2 DRILLING

The drill program on the Gowganda East target area was conceived to intersect the Robinson silver vein that is projected to cross the adjacent CSCW property boundary onto the BMR/ Transition JV property. Canada Silver Cobalt Works has established an NI 43-101 inferred resource of 32,900 tonnes grading 7,325 g/t (equivalent) yielding 7,752,700 ounces of silver (equivalent) on the hi-grade Robinson vein.

Drilling at Gowganda East consisted of two complete drill holes, GE21001/ 002 and three additional wedges (GE21001W1/ 001W2/ 001W3) drilled from the initial hole between June 30 and August 19, 2021, for a total of 2164.91m.

Table 3 provides a summary of the drilling and the collar information, and Figure 5, a plan view of the diamond drill hole location. All work was conducted under exploration permits **PR-21-000056 and PR-21-000057** on cell claims 108672 and 186256 (legacy claims L4259076 & L1225401).

Hole ID	Easting	Northing	azim	dip	depth/ from- to	footage drilled
GE21001	521230	5279440	358	-55	0.0- 613.0	613.00
GE21002	521230	5279440	357	-63	0.0- 703.5	703.50
GE21001W1	521230	5279440	357	-54	268.0- 582.0	314.00
GE21001W2	521230	5279440	0.68	-53.19	249.34- 417.75	168.41
GE21001W3	521230	5279440	359.8	-53.2	234.0- 600.0	366.00
TOTALS						2164.91

Table 3. Diamond Drill Hole/Wedge Summary for the 2021 Gowganda East Drill Program.

Pilot holes GE21001/ 002 were drilled semi- parallel to the BMR/ CSCW boundary to attempt to intersect the Robinson vein, subsequently, it was decided that GE21001 was better suited to act as the mother hole for the wedges. GE21001W1 was set at 268m and directed left and up; W2 (249.34m) was directed up and right but was abandoned after the wedge was dislodged and blocked the hole. As a result, GE21001W3 was set above at 234.0m and directed up and right.

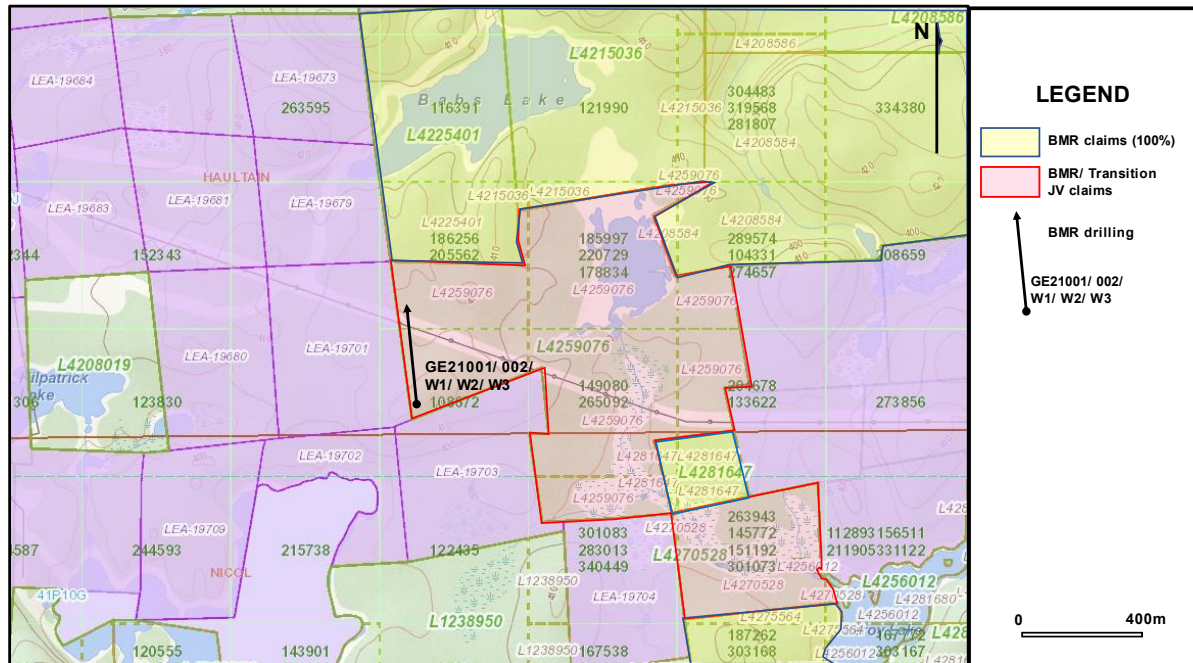


Figure 5. Drill Hole Location Plan, Gowganda East Target

3.3 GEOLOGY

Drill hole GE21001 is collared in feldspathic greywacke of the Coleman member of the Cobalt Group, entering the Archean volcanics, a sequence of mafic to intermediate flows and tuffs with interbedded sedimentary units and minor ultramafic/ komatiitic lenses, through an unconformable contact at 51.50m (42.1m vertical). Similarly, hole GE21002 penetrated Huronian sediments to an initial unconformity with the Archean at 50.25m (46.6m vertical), traversed about 8m of mafic volcanics and re-entered the Coleman sediments from 58.20- 63.35m (56.4m vertical) before cutting a second unconformity (Figure 6) and re- entering the main package of Archean volcanics. The discrepancy in elevations of the volcanics between holes and the doubled unconformity in hole GE21002 suggest steep, uneven Archean topographic relief.

A late Precambrian age, east northeast trending diabase dike cuts the greywacke and the underlying volcanics at downhole depths of 109.10- 152.34m and 137.15- 170.47m in holes GE21001 and GE21002, respectively. The upper contacts of the Nipissing Diabase sill were intersected at 442.0m (357.6m vertical) in hole GE21001 and 409.60m (365.0m vertical) in GE21002. Both holes remained in diabase to the end of the hole, the former to 613m, the latter to 703.5m (626.8m vertical), indicating a minimum thickness of about 262m for the Nipissing Diabase sill.

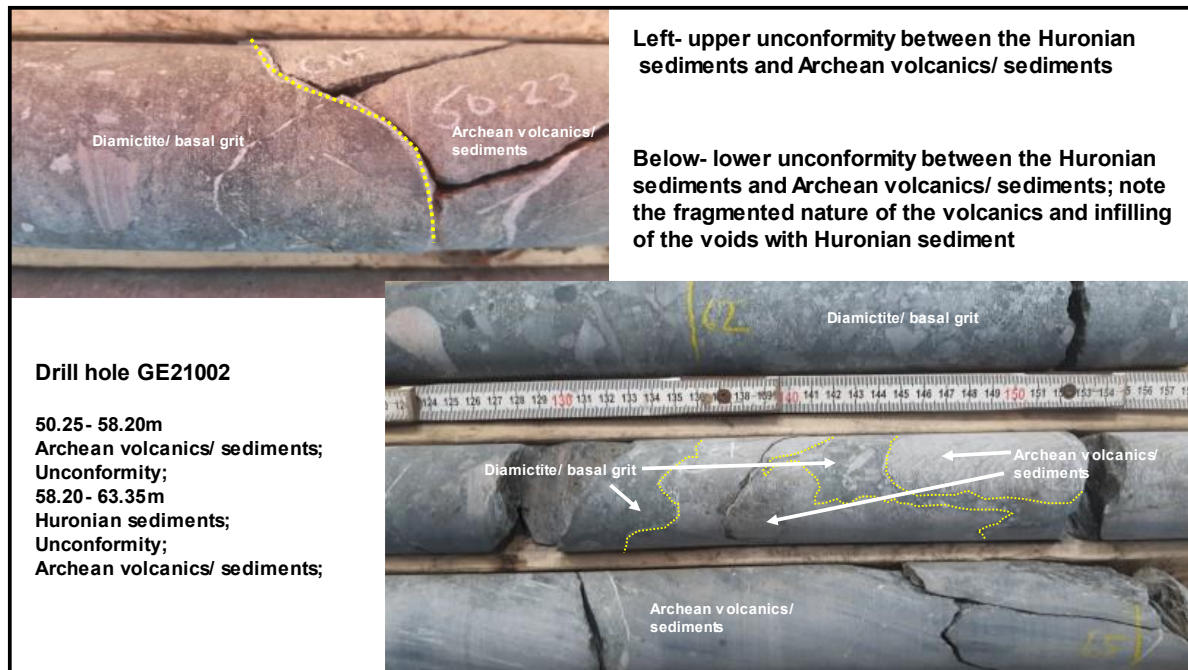


Figure 6. Core photos illustrating the nature of the double unconformity in hole GE21002 suggesting significant topographic relief of the Archean basement.

3.4 MINERALIZATION

The Cobalt and Gowganda Districts of northern Ontario define a Canadian type-locality for silver-cobalt vein deposits, which are also known as arsenide silver-cobalt veins, nickel-cobalt-native silver veins, five-elements vein deposit or Ag-Ni-Co-As-Bi vein deposits, even though not all five elements are always present, and even though some of these deposits also contain uranium. (Cole/ SRK, 2020)

McIlwaine describes the mineralization in the Gowganda Camp as follows:

Most of the known occurrences in the map-area are hosted by Nipissing Diabase and less commonly by Gowganda Formation and Early Precambrian metavolcanics. The mineralization is in vertical to steeply dipping calcite and quartz calcite veins. The veins are narrow, ranging from fractures to 1 m (3 feet); they occur as single veins or more commonly as bifurcating or multiple branching vein systems.

Mineralized veins in the Miller Lake area are located in the top half of the Miller Lake diabase basin with the most productive veins occurring in the western margin. Petruk (1971a) states the ore veins occur at right angles to the contact between the diabase and metavolcanics, in joints, both planar and cylindroidal, and in faults crosscutting the cylindroidal joints. Orebodies are most common at vein intersections; both veins may or may not have ore but the ore zones may be at different horizons (Petruk 1971a, p.102). Petruk (1971a) suggests the average size of an ore vein is 2.5 to 5 cm (1 to 2 inches) wide with horizontal and vertical dimensions of 30 to 60 m (100 to 200 feet).

All BMR holes and wedges intersected significant silver mineralization, including visible silver, except wedge 2 which was abandoned before reaching the target depth. Table 4 presents the significant assays.

Hole Number	Sample Number	From (m)	To (m)	Sample Width (m)	Co (%)	Ag (g/t)	Cu (%)
GE21001	R3811	441.00	442.00	1.00	0.00	3.04	500
GE21001	R3814	444.00	444.50	0.50	0.03	9.81	1735
GE21001	R3819	501.50	502.50	1.00	0.10	0.19	172
GE21001	R3822	502.50	503.00	0.50	0.11	0.16	46
GE21001	R3823	503.00	504.00	1.00	0.03	0.12	44
GE21001	R3824	504.00	504.50	0.50	0.03	0.21	52
GE21001	R3843	516.25	517.25	1.00	0.00	4.25	132
GE21001	R3844	517.25	517.75	0.50	0.00	4.22	143
GE21001	R3845	517.75	518.25	0.50	0.00	8.43	139
GE21001	R3847	518.90	519.40	0.50	0.18	13948.00	185
GE21001	R3848	519.40	520.00	0.60	0.01	9.25	96
GE21001	R3849	520.00	521.00	1.00	0.00	17.25	84
GE21001	OR	516.25	521.00	4.10		1709.00	
GE21001	R3852	549.75	550.25	0.50	0.03	13.45	106
GE21001W1	R3944	429.00	430.00	1.00	0.01	5.32	1185
GE21001W1	R3945	430.00	431.00	1.00	0.01	5.52	913
GE21001W1	R3949	455.90	456.40	0.50	0.05	31.20	431
GE21001W1	R3952	468.00	469.00	1.00	0.00	2.63	101
GE21001W1	R3953	469.00	470.00	1.00	0.00	401.00	288
GE21001W1	R3955	470.00	470.50	0.50	0.00	390.00	210
GE21001W1	R3957	470.50	471.00	0.50	0.00	550.00	156
GE21001W1	R3959	471.00	472.00	1.00	0.00	88.40	109
GE21001W1	R3962	472.00	473.00	1.00	0.01	62.40	142
GE21001W1	OR	469.00	473.00	4.00		255.45	
GE21001W1	R3988	564.00	564.60	0.60	0.08	8.92	515
GE21001W3	19068	424.00	425.00	1.00	0.01	3.92	0.11
GE21001W3	19069	425.00	426.00	1.00	0.01	4.70	0.14
GE21001W3	19078	441.65	442.15	0.50	0.37	15.25	0.01
GE21001W3	19085	458.00	459.00	1.00	0.01	3.05	0.02
GE21001W3	19091	554.50	555.50	1.00	0.01	25.60	0.02
GE21001W3	19092	555.50	556.20	0.70	0.01	2.65	0.01
GE21001W3	19093	556.20	556.90	0.70	0.03	239.00	0.07
GE21001W3	OR	554.50	556.90	2.40		81.15	
GE21002	R3867	177.20	178.00	0.80	0.01	4.24	3720

GE21002	R3868	193.00	194.00	1.00	0.01	8.25	249
GE21002	R3869	194.00	195.00	1.00	0.05	0.95	394
GE21002	R3877	251.20	252.00	0.80	0.01	1.92	2120
GE21002	R3898	474.30	475.40	1.10	0.01	430.00	270
GE21002	R3924	690.50	691.50	1.00	0.04	4.23	1370

Table 4. Table of Significant Assays from the 2020 Big Four Drilling Program.

Silver mineralization generally occurs as described in the literature, as narrow high grade veins up to 3-4cm with native silver along the vein contacts, in fractures in the quartz- carbonate vein material, or in fractures in the diabase up to 0.5m in the walls of the veins (13,948 g/t Ag, GE21001 518.90m, Figure 7, left). Another mineralized zone higher up in the same hole (501.0m) comprises a series of strong white calcite veins (50%) over 7.0m with intermittent anomalous Co values detected with the portable XRF; it returned an assay of 0.10% Co over 1.5m but no significant silver (Figure 7A).

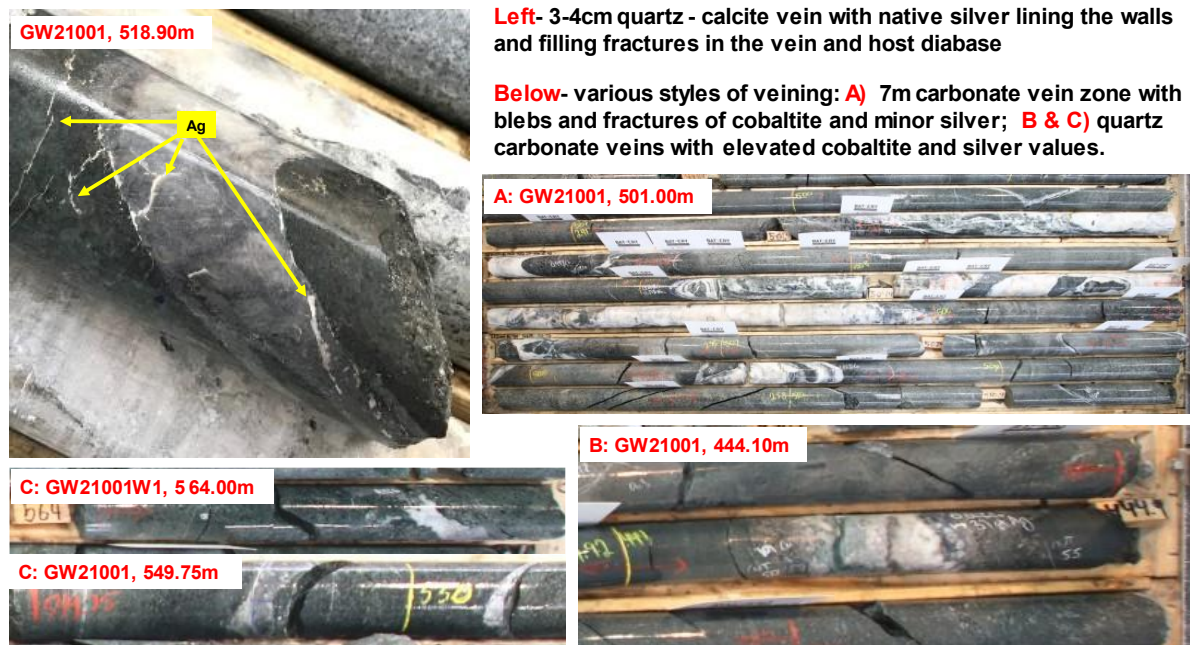


Figure 7. Various styles of veining at Gowganda East Target.

GE21001 – The best cobalt values were obtained from the carbonate veined zone of Figure 7A which returned 0.10% Co over 1.5m from 501.50m, and an assay of 0.18% Co over 0.5m at 518.90m which coincides with the highest silver value of the program, 13948 g/t Ag (Figure 7 Left).

GE21001W1 – In hole GE21001W1, the best intersection returned 255.45 g/t silver

over 4.0m from 469.0 to 473.0m in a leading 6cm calcite vein and a zone of threadlike silver- filled fractures in the diabase. There is no cobalt mineralization associated with the silver zone, however, there are 2cm calcite stringers at 456.20 and 564.30m with Co and Ag assays of 0.05%/ 31.20g/t and 0.08%/ 8.92g/t, respectively.

GE21001W2 – There were no significant assays in this hole as the wedge became dislodged and blocked access to the hole.

GE21001W3 – The best cobalt assay of the drill program, 0.37% Co and 15.25g/t Ag over 0.5m, was obtained from a 3cm wide calcite vein mineralized with small spherules of cobaltite at 441.70m while a silver assay of 81.15 g/t over 2.40m from 554.50m was associated with a 2 cm arsenopyrite- bearing vein and barren looking diabase that contained widely disseminated silver needles thought to be arsenopyrite.

GE21002 – In hole GE21-002, the best intersection, 430.00 g/t Ag over 1.1m from 474.30m coincides with a zone of fine calcite veinlets and fractures that contain fine threads/ fillings and smears of silver. There were, however, anomalous cobalt (0.05%), silver (8.25g/t), and copper values (0.37%) in the volcanic package above the diabase.

Summary and Recommendations

The drill program on the Gowganda East target area was designed to intersect the Robinson silver vein that was projected to cross the CSCW property boundary onto the BMR/ Transition JV claims. This vein was central to an NI 43-101 inferred resource of 32,900 tonnes grading 7,325 g/t (equivalent) yielding 7,752,700 ounces of silver (equivalent).

Drilling at Gowganda East consisted of two complete drill holes GE21001/ 002 and three additional wedges (GE21001W1/ 001W2/ 001W3) drilled from the initial pilot hole. The holes were drilled by G4 Drilling contractors between June 30 and August 19, 2021, for a total of 2164.91m.

Both drill holes collared in feldspathic greywacke of the Coleman member of the Cobalt Group, entering the Archean volcanics, a sequence of mafic to intermediate flows and tuffs with interbedded sedimentary units and minor ultramafic/ komatiitic lenses, through an unconformable contact. Hole GE21002 penetrated Huronian sediments to an initial unconformity with the Archean, traversed about 8m of mafic volcanics and re-entered the Coleman sediments before passing through a second unconformity into the main package of Archean volcanics. The nature of the uncon-

formable contacts suggests steep, uneven topographic relief in the Archean basement.

A late Precambrian age, east northeast trending diabase dike that was intersected in both holes, cuts the greywacke and the underlying volcanics. The upper contacts of the Nipissing Diabase sill were intersected at 442.0m (357.6m vertical) in hole GE21001 and 409.60m (365.0m vertical) in GE21002. Both holes remained in diabase to the end of the hole, the former to 613m, the latter to 703.5m (626.8m vertical), indicating a minimum thickness of about 262m for the Nipissing Diabase sill.

The mineralization in the Cobalt and Gowganda areas generally occurs as five-element vein (Ag-Ni-Co-As-Bi) deposits, even though not all five elements are always present. In the Gowganda Camp most of the known occurrences are hosted by Nipissing Diabase and less commonly by Gowganda Formation and Early Precambrian metavolcanics. The mineralization is in vertical to steeply dipping calcite and quartz calcite veins ranging from fractures to 1 m (3 feet), as single veins or more commonly as bifurcating or multiple branching vein systems. Ore veins commonly propagate at right angles to the contact between the diabase and metavolcanics, in joints, both planar and cylindroidal, and in faults crosscutting the cylindroidal joints with the best orebodies found at vein intersections;

At Gowganda East, all holes and wedges intersected significant silver mineralization, including visible silver, except wedge 2 which was abandoned before reaching the target depth. The best values were encountered in veins and fractures near the upper contact of the Nipissing Diabase sill as is typical of the main Gowganda Camp.

The best silver and cobalt values were obtained in holes GE21001/ 002 and wedges GE21001W1 and 001W3) as follow:

GE21001 –the heavily carbonate veined zone returned 0.10% Co over 1.5m from 501.50m, and an assay of 0.18% Co over 0.5m at 518.90m which coincides with the highest silver value of the program, **13948 g/t Ag**.

GE21001W1 –255.45 g/t silver over 4.0m from 469.0 to 473.0m in a leading 6cm calcite vein and a zone of threadlike silver- filled fractures in the diabase, and Co and Ag assays of 0.05%/ 31.20g/t and 0.08%/ 8.92g/t, in 2cm calcite stringers at 456.20m and 564.30m, respectively.

GE21001W2 –no significant assays as the wedge became dislodged and blocked access.

GE21001W3 –0.37% Co and 15.25g/t Ag over 0.5m at 441.70m from a 3cm wide calcite vein mineralized with small spherules of cobaltite, and a silver assay of 81.15

g/t over 2.40m from 554.50m associated with a 2 cm arsenopyrite- bearing vein and barren looking diabase that contained widely disseminated silver needles (arsenopyrite).

GE21002 –430.00 g/t Ag over 1.1m from 474.30m coincides with a zone of calcite veinlets and fractures that contain fine threads/ fillings and smears of silver. Also, there were anomalous cobalt (0.05%), silver (8.25g/t), and copper values (0.37%) in the volcanic package above the diabase.

Recommendations

It is recommended that:

- 1) Two additional wedges be drilled upwards from hole GE21002;
- 2) all of the drill data be integrated into a 3-D model to establish the geometry of the veining;
- 3) using the model, determine if there is a single or multiple vein sets;
- 4) once the modelling is completed and the orientation of the veins is defined, a drill program with wedges be developed to intersect the vein zones at an optimum angle.

4. REFERENCES CITED

References

Cole, G., Protulipac, C., and Lebrun, E. (SRK), 2020. Technical Report on Cobalt Exploration Assets in Canada: National Instrument 43-101 Standards of Disclosure for Mineral Projects Technical Report for Battery Mineral Resources Corp. (BMR) by SRK Consulting (Canada) Inc. (SRK).

Collins, J.G. 2010. Report of Physical Work Haultain Township, Larder Lake Mining; Ministry of Northern Development, Mines and Forestry, assessment file, Work Report W1080.02552.

McIlwaine, W.H. 1978. Geology of the Gowganda Lake – Miller Lake Silver Area; Ontario Geological Survey, Geological Report 175, 185 p.

Petruk, W. (1971a). General characteristics of the deposits. In “Silver-Arsenide Deposits of the Cobalt- Gowganda Region, Ontario (L. G. Berry, ed). The Canadian Mineralogist, 11, p. 76-107.

Rachidi, E. (GoldMinds Geoservices Inc.) 2020, NI 43-101 Technical Report Mineral Resource Estimate for Castle East, Robinson Zone, Ontario, Canada; prepared for Canada Silver Cobalt works, 140p.

Additional References

Andrews, A.J., Owsiacski, L., Kerrich, R., and Strong, D.F., (1986a). The silver deposits at Cobalt and Gowganda, Ontario. I: Geology, petrography, and whole-rock geochemistry: Canadian Journal of Earth Sciences, v.23 (10), p. 1480-1506.

Hitzman, M.W., Bookstrom, A. A., Slack, J. F., and Zientek, M. L. (2016). Cobalt—Styles of Deposits and the Search for Primary Deposits: USGS Open-File Report 2017–1155, 53 p.

Kerrich, R., Strong, D.F., Andrews, A.J., and Owsiacski, L., (1986). The silver deposits at Cobalt and Gowganda, Ontario. III: Hydrothermal regimes and source reservoirs—evidence from H, O, C, and Sr isotopes and fluid inclusions: Canadian Journal of Earth Sciences, v.23 (10), p. 1519-1550.

Moore, E.S. 1955. Geology of the Miller Lake Portion of the Gowganda Silver Area; Ontario Department of Mines Annual Report 64, part 5, 45 p.

5. 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 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.
- 4) That I have practiced my profession as a mineral exploration geologist, mine geologist and geological consultant for a period of about 45 years.
- 5) I am currently employed full time as Exploration Manager for Battery Mineral Resources Corp. and was directly involved in the planning and execution of the exploration program documented in this report. This document is based on information various public documents and my personal observations during 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, November 9, 2021

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 6, 2021

6. APPENDIX

APPENDIX 1: MINING CLAIMS CELL LIST

APPENDIX 2: DRILL HOLE METADATA

APPENDIX 3: DRILL HOLE TEXT LOGS

APPENDIX 4: CERTIFICATES OF ANALYSES

APPENDIX 5: ASSAY DATA

APPENDIX 6: CROSS SECTION GRAPHIC LOGS AND ASSAYS

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Hole ID	mEasting	nNorthing	Elevation(m)	Azimuth	Dip	Depth (m)	Drill Core Diameter	Cell Number (Provincial Grid)	Lease Number	Mining Claim Number	Drilling Start Date	Drilling End Date	Drilling Contractor	Storage	Overburden Thickness(m)	Casing	Cap Method	Abandoned	Artesian Conditions	Log Start Date	Log Completion Date	Log Author
	Datum: UTM NAD 83, Zone 17N																					
GE21-001	521229.6949	5279440.204	419.56	358.07	-54.83	613	NQ	41P10	N/A	186256	2021-06-30	2021-07-08	G4 Diamond Drilling	Canadian Exploration Services Ltd. 14579 Government Road Larder Lake, Ontario, Canada P0K 1L0	1.96	Left in Place	Metal Collar Cap	No	No	2021-07-01	2021-07-12	R.Wells/N.Kastek
GE21-001W1	521229.6949	5279440.204	419.56	357.82	-54.14	582	NQ	41P10	N/A	186256	2021-07-28	2021-08-02	G4 Diamond Drilling	Canadian Exploration Services Ltd. 14579 Government Road Larder Lake, Ontario, Canada P0K 1L0	34.21	Left in Place	Metal Collar Cap	No	No	2021-07-29	2021-08-10	R.Wells/N.Kastek
GE21-001W2	521229.6949	5279440.204	419.56	0.68	-53.19	417.75	NQ	41P10	N/A	186256	2021-08-10	2021-08-13	G4 Diamond Drilling	Canadian Exploration Services Ltd. 14579 Government Road Larder Lake, Ontario, Canada P0K 1L0	56.54	Left in Place	Metal Collar Cap	No	No	2021-08-12	2021-08-13	S.Hicks/B.Piche
GE21-001W3	521229.6949	5279440.204	419.56	359.8	-53.2	600	NQ	41P10	N/A	186256	2021-08-15	2021-08-19	G4 Diamond Drilling	Canadian Exploration Services Ltd. 14579 Government Road Larder Lake, Ontario, Canada P0K 1L0	70.69	Left in Place	Metal Collar Cap	No	No	2021-08-16	2021-08-20	S.Hicks/B.Piche
GE21-002	521229.6949	5279440.204	419.56	356.96	-62.96	703.5	NQ	41P10	N/A	186256	2021-07-19	2021-07-27	G4 Diamond Drilling	Canadian Exploration Services Ltd. 14579 Government Road Larder Lake, Ontario, Canada P0K 1L0	3.20	Left in Place	Metal Collar Cap	No	No	2021-07-20	2021-07-27	R.Wells/N.Kastek

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ID	Latitude	Longitude	Elevation	View	Orientation	Grade	Bedrock	Structure	Color	Texture	Notes	Scale	Depth	Angle	Dip	Strike	Slip	Sense					
GE2100101	31356	315	1.42	Yes	Intermediate	D	gray	fa	massive	Intermediate volcanic rock. Dark grey, fine grained, moderately magnetic. Unit is competent. Mafic inclusions is visible at 15-40 DfCA. Dissected and sub-parallel rounded volcanic (teardrop) inclusions. Occasional quartz veins. Lower contact is sharp at 45 DfCA. Mafic inclusions dark gray, fine grained, moderately magnetic. Unit is hard and competent. Mafic inclusions of elongated white crystals, as well as foliation along cleavage is visible at 30 DfCA.	isolated or forming	chlorite alteration	vk mod	sv	0.1	vac	0.1						
GE2100102	31497	3345	19.53	Yes	Vm mafic volcanic	D	gray	fg	massive	Intermediate Felsic to Intermediate Volcanics, Crystal Tufts, and Siltstones (Siltstones and Sandstones) unit is a large package comprised predominantly of very fine grained to siltstone, bedded felsic to intermediate volcanic (siltstones) and medium grained, massive crystalline tufts (sandstone) along with very siliceous (charly) siltstones and a couple igneous mafic flows. The felsic to intermediate volcanic (siltstones) are medium gray, very fine to fine grained, bedded (5-25 DfCA) and range from non- to weakly magnetic. The crystal tufts (sandstone) are medium to dark gray, medium grained and massive with poorly sorted, rounded to angular crystals (feldspar) and weakly magnetic. The siltstone/charly range from dark gray to a creamy brown color, are aphanitic and bedded (20-30 DfCA) and display evidence of folding and soft sediment deformation (hanging towards lower contact). Unit is hard and competent with numerous blocky to broken sections (i.e. 263-268 m) and very weak chlorite alteration along slip surfaces and sporadic weak pervasive carbonate alteration (mainly associated with veins). Trace fine grained disseminated pyrite and minor vein/factor associated with pyrite throughout but predominantly in the fine grained volcanic and/or siltstones with an increase in clay towards lower contact. Unit appears to be cut by multiple vein sets, set of high-angle (50-70 DfCA), sub-to mm-scale bore white calcite stringers, low-angle (15-30 DfCA) calcite veins which appear to fracture host rock in sections (i.e. 280-290 m), set of low-angle (15-30 DfCA) calcite veins which appear to fracture host rock in sections (i.e. 280-290 m), and two discontinuous quartz-rich calc-alkaline veins with minor galena along vein margins and adjacent fracture (230 m). 30 cm slab with significant OH, thin veining and aphanitic, up to 1.25 m (200 DfCA) @ 238.07 m. Last 10 meters of unit appear to be intertorted mafic and intermediate flows with the lower contact defined by presence of bedding (bedding/veins/v. 7) at 35 DfCA.	isolated or forming	carbonate alteration	vk	sv	0.1	vac	0.3	vac	2				
GE2100103	31451	409.3	74.80	Yes	Thuff amorph	M	cream	vfa	amorph	Intermediate Felsic to Intermediate Volcanics, Crystal Tufts, and Siltstones (Siltstones and Sandstones) unit is a large package comprised predominantly of very fine grained to siltstone, bedded felsic to intermediate volcanic (siltstones) and medium grained, massive crystalline tufts (sandstone) along with very siliceous (charly) siltstones and a couple igneous mafic flows. The felsic to intermediate volcanic (siltstones) are medium gray, very fine to fine grained, bedded (5-25 DfCA) and range from non- to weakly magnetic. The crystal tufts (sandstone) are medium to dark gray, medium grained and massive with poorly sorted, rounded to angular crystals (feldspar) and weakly magnetic. The siltstone/charly range from dark gray to a creamy brown color, are aphanitic and bedded (20-30 DfCA) and display evidence of folding and soft sediment deformation (hanging towards lower contact). Unit is hard and competent with numerous blocky to broken sections (i.e. 263-268 m) and very weak chlorite alteration along slip surfaces and sporadic weak pervasive carbonate alteration (mainly associated with veins). Trace fine grained disseminated pyrite and minor vein/factor associated with pyrite throughout but predominantly in the fine grained volcanic and/or siltstones with an increase in clay towards lower contact. Unit appears to be cut by multiple vein sets, set of high-angle (50-70 DfCA), sub-to mm-scale bore white calcite stringers, low-angle (15-30 DfCA) calcite veins which appear to fracture host rock in sections (i.e. 280-290 m), set of low-angle (15-30 DfCA) calcite veins which appear to fracture host rock in sections (i.e. 280-290 m), and two discontinuous quartz-rich calc-alkaline veins with minor galena along vein margins and adjacent fracture (230 m). 30 cm slab with significant OH, thin veining and aphanitic, up to 1.25 m (200 DfCA) @ 238.07 m. Last 10 meters of unit appear to be intertorted mafic and intermediate flows with the lower contact defined by presence of bedding (bedding/veins/v. 7) at 35 DfCA.	foliated	silica alteration	mod	sv	0.01	sv	0.02	he	0.01	vac	1	vac	0.1
GE2100104	409.3	421.1	11.75	Yes	Lam lamprophyre	D	gray	fmg	massive	Lamprophyre dark grey, fine to medium grained, massive, Unit is benign and competent. Unit is weak to moderately magnetic before and strongly magnetic post 445.5m. Weak carbonate and chlorite alteration. Veins are present at mid-level carbonate veins and up to 20 cm wide calcite veins (i.e. 427.8 m), intersecting at moderate angles between 40 and 50 DfCA. Dissected pyrite is present within the larger vein and the upper contact. Unit is hard and competent. Mafic inclusions of elongated white crystals, as well as foliation along cleavage is visible at 30 DfCA.	massive	carbonate alteration	vk	sv	0.1	vac	0.1	vac	0.1	vac	0.2		
GE2100105	421.05	452	10.95	Yes	Sil siltstone	M	gray	vfa	bedded/foliated	Intermediate Felsic to Intermediate Volcanics, Crystal Tufts, and Siltstones (Siltstones and Sandstones) unit is a large package comprised predominantly of very fine grained to siltstone, bedded felsic to intermediate volcanic (siltstones) and medium grained, massive crystalline tufts (sandstone) along with very siliceous (charly) siltstones and a couple igneous mafic flows. The felsic to intermediate volcanic (siltstones) are medium gray, very fine to fine grained, bedded (5-25 DfCA) and range from non- to weakly magnetic. The crystal tufts (sandstone) are medium to dark gray, medium grained and massive with poorly sorted, rounded to angular crystals (feldspar) and weakly magnetic. The siltstone/charly range from dark gray to a creamy brown color, are aphanitic and bedded (20-30 DfCA) and display evidence of folding and soft sediment deformation (hanging towards lower contact). Unit is hard and competent with numerous blocky to broken sections (i.e. 263-268 m) and very weak chlorite alteration along slip surfaces and sporadic weak pervasive carbonate alteration (mainly associated with veins). Trace fine grained disseminated pyrite and minor vein/factor associated with pyrite throughout but predominantly in the fine grained volcanic and/or siltstones with an increase in clay towards lower contact. Unit appears to be cut by multiple vein sets, set of high-angle (50-70 DfCA), sub-to mm-scale bore white calcite stringers, low-angle (15-30 DfCA) calcite veins which appear to fracture host rock in sections (i.e. 280-290 m), set of low-angle (15-30 DfCA) calcite veins which appear to fracture host rock in sections (i.e. 280-290 m), and two discontinuous quartz-rich calc-alkaline veins with minor galena along vein margins and adjacent fracture (230 m). 30 cm slab with significant OH, thin veining and aphanitic, up to 1.25 m (200 DfCA) @ 238.07 m. Last 10 meters of unit appear to be intertorted mafic and intermediate flows with the lower contact defined by presence of bedding (bedding/veins/v. 7) at 35 DfCA.	foliated	silica alteration	vk	sv	0.1	vac	0.1	vac	0.1				
GE2100106	432	436.7	4.68	Yes	Vm mafic tuft	D	gray	fm	massive	Mafic, Crystal Tuft. Lower contact is rhyolitic/faulted	massive	carbonate alteration	vk	sv	0.1	vac	0.1	vac	0.01				
GE2100107	436.67	456.2	19.48	Yes	Di Diabase	M	gray	me	massive	Intermediate Felsic to Intermediate Volcanics, Crystal Tufts, and Siltstones (Siltstones and Sandstones) unit is a large package comprised predominantly of very fine grained to siltstone, bedded felsic to intermediate volcanic (siltstones) and medium grained, massive crystalline tufts (sandstone) along with very siliceous (charly) siltstones and a couple igneous mafic flows. The felsic to intermediate volcanic (siltstones) are medium gray, very fine to fine grained, bedded (5-25 DfCA) and range from non- to weakly magnetic. The crystal tufts (sandstone) are medium to dark gray, medium grained and massive with poorly sorted, rounded to angular crystals (feldspar) and weakly magnetic. The siltstone/charly range from dark gray to a creamy brown color, are aphanitic and bedded (20-30 DfCA) and display evidence of folding and soft sediment deformation (hanging towards lower contact). Unit is hard and competent with numerous blocky to broken sections (i.e. 263-268 m) and very weak chlorite alteration along slip surfaces and sporadic weak pervasive carbonate alteration (mainly associated with veins). Trace fine grained disseminated pyrite and minor vein/factor associated with pyrite throughout but predominantly in the fine grained volcanic and/or siltstones with an increase in clay towards lower contact. Unit appears to be cut by multiple vein sets, set of high-angle (50-70 DfCA), sub-to mm-scale bore white calcite stringers, low-angle (15-30 DfCA) calcite veins which appear to fracture host rock in sections (i.e. 280-290 m), set of low-angle (15-30 DfCA) calcite veins which appear to fracture host rock in sections (i.e. 280-290 m), and two discontinuous quartz-rich calc-alkaline veins with minor galena along vein margins and adjacent fracture (230 m). 30 cm slab with significant OH, thin veining and aphanitic, up to 1.25 m (200 DfCA) @ 238.07 m. Last 10 meters of unit appear to be intertorted mafic and intermediate flows with the lower contact defined by presence of bedding (bedding/veins/v. 7) at 35 DfCA.	massive	carbonate alteration	vk	sv	0.01	vac	0.01	vac	0.01				
GE2100108	456.15	456.2	0.05	Yes	Vb Carbonate Vein	L	white	vfa	vein/veining	Amorphous Chlorite-Carbonate Vein: 25 cm wide carbonate vein intersecting the core at 20 DfCA. Vein includes 50% of host diabase and the rest of the core suggests that it might be two narrow parallel veins that occasionally merge. Vein includes 25 cm (10 m) and 20 cm (10 m) wide calcite veins. Lower contact is sharp at 20 DfCA.	vein/veining	carbonate alteration	vstr	sv	5	sv	0.1	vac	0.66				
GE2100109	456.19	469.2	12.99	Yes	Di Diabase	M	gray	me	massive	Intermediate Felsic to Intermediate Volcanics, Crystal Tufts, and Siltstones (Siltstones and Sandstones) unit is a large package comprised predominantly of very fine grained to siltstone, bedded felsic to intermediate volcanic (siltstones) and medium grained, massive crystalline tufts (sandstone) along with very siliceous (charly) siltstones and a couple igneous mafic flows. The felsic to intermediate volcanic (siltstones) are medium gray, very fine to fine grained, bedded (5-25 DfCA) and range from non- to weakly magnetic. The crystal tufts (sandstone) are medium to dark gray, medium grained and massive with poorly sorted, rounded to angular crystals (feldspar) and weakly magnetic. The siltstone/charly range from dark gray to a creamy brown color, are aphanitic and bedded (20-30 DfCA) and display evidence of folding and soft sediment deformation (hanging towards lower contact). Unit is hard and competent with numerous blocky to broken sections (i.e. 263-268 m) and very weak chlorite alteration along slip surfaces and sporadic weak pervasive carbonate alteration (mainly associated with veins). Trace fine grained disseminated pyrite and minor vein/factor associated with pyrite throughout but predominantly in the fine grained volcanic and/or siltstones with an increase in clay towards lower contact. Unit appears to be cut by multiple vein sets, set of high-angle (50-70 DfCA), sub-to mm-scale bore white calcite stringers, low-angle (15-30 DfCA) calcite veins which appear to fracture host rock in sections (i.e. 280-290 m), set of low-angle (15-30 DfCA) calcite veins which appear to fracture host rock in sections (i.e. 280-290 m), and two discontinuous quartz-rich calc-alkaline veins with minor galena along vein margins and adjacent fracture (230 m). 30 cm slab with significant OH, thin veining and aphanitic, up to 1.25 m (200 DfCA) @ 238.07 m. Last 10 meters of unit appear to be intertorted mafic and intermediate flows with the lower contact defined by presence of bedding (bedding/veins/v. 7) at 35 DfCA.	broken	carbonate alteration	vsk	sv	0.01	vac	0.01	vac	0.01				
GE2100110	465.18	470.7	1.12	Yes	Vb Sil siltstone	L	white	vfa	vein/veining	Amorphous Chlorite-Carbonate Vein: 25 cm wide carbonate vein intersecting the core at 20 DfCA. Vein includes 50% of host diabase and the rest of the core suggests that it might be two narrow parallel veins that occasionally merge. Vein includes 25 cm (10 m) and 20 cm (10 m) wide calcite veins. Lower contact is sharp at 20 DfCA.	vein/veining	carbonate alteration	vtr	sv	0.5	py	0.1	vac	2				
GE2100111	470.7	564.3	93.60	Yes	Vb Quartz Carbonate Vein	M	gray	me	massive	Amorphous Chlorite-Carbonate Vein: 25 cm wide carbonate vein intersecting the core at 20 DfCA. Vein includes 50% of host diabase and the rest of the core suggests that it might be two narrow parallel veins that occasionally merge. Vein includes 25 cm (10 m) and 20 cm (10 m) wide calcite veins. Lower contact is sharp at 20 DfCA.	broken	carbonate alteration	vsk	sv	0.01	vac	0.01	vac	0.01				
GE2100112	564.3	564.3	0.04	Yes	Di Diabase	M	gray	me	massive	Intermediate Felsic to Intermediate Volcanics, Crystal Tufts, and Siltstones (Siltstones and Sandstones) unit is a large package comprised predominantly of very fine grained to siltstone, bedded felsic to intermediate volcanic (siltstones) and medium grained, massive crystalline tufts (sandstone) along with very siliceous (charly) siltstones and a couple igneous mafic flows. The felsic to intermediate volcanic (siltstones) are medium gray, very fine to fine grained, bedded (5-25 DfCA) and range from non- to weakly magnetic. The crystal tufts (sandstone) are medium to dark gray, medium grained and massive with poorly sorted, rounded to angular crystals (feldspar) and weakly magnetic. The siltstone/charly range from dark gray to a creamy brown color, are aphanitic and bedded (20-30 DfCA) and display evidence of folding and soft sediment deformation (hanging towards lower contact). Unit is hard and competent with numerous blocky to broken sections (i.e. 263-268 m) and very weak chlorite alteration along slip surfaces and sporadic weak pervasive carbonate alteration (mainly associated with veins). Trace fine grained disseminated pyrite and minor vein/factor associated with pyrite throughout but predominantly in the fine grained volcanic and/or siltstones with an increase in clay towards lower contact. Unit appears to be cut by multiple vein sets, set of high-angle (50-70 DfCA), sub-to mm-scale bore white calcite stringers, low-angle (15-30 DfCA) calcite veins which appear to fracture host rock in sections (i.e. 280-290 m), set of low-angle (15-30 DfCA) calcite veins which appear to fracture host rock in sections (i.e. 280-290 m), and two discontinuous quartz-rich calc-alkaline veins with minor galena along vein margins and adjacent fracture (230 m). 30 cm slab with significant OH, thin veining and aphanitic, up to 1.25 m (200 DfCA) @ 238.07 m. Last 10 meters of unit appear to be intertorted mafic and intermediate flows with the lower contact defined by presence of bedding (bedding/veins/v. 7) at 35 DfCA.	broken	carbonate alteration	vsk	sv	0.01	vac	0.01	vac	0.01				
GE2100113	564.3	582	17.67	Yes	Di Diabase	M	gray	me	massive	Mafic, volcanic: light to medium gray becoming darker towards top, fine to medium grained, sometimes exhibiting an equigranular interlock texture due to medium grained chlorite, massive to weakly foliated mafic volcanic. Unit is hard, competent and non-magnetic save the last 1.5 m at lower contact. Unit is cut by two reddish brown porphyritic dikes (veinlets) with medium to coarse grained, rounded to sub-angular plagioclase phenocrysts, 20 and 25 cm (10 m) wide calcite veins (i.e. 275.5 m and 277.8 m). Significant pervasive carbonate alteration with localized pale green (spinel/clay) alteration often associated with veins, localized red staining of quartz-rich calc-alkaline veins (i.e. 293.9 m), very weak localized pervasive carbonate alteration and minor pervasive fine grained mafic mineral (sericite) blebbling. Trace fine grained disseminated pyrite at upper contact (increase from 720 m) with sections ranging from 10 to 20 m (200 DfCA) @ 564.3 m. Last 10 meters of unit appear to be intertorted mafic and intermediate flows with the lower contact defined by presence of bedding (bedding/veins/v. 7) at 35 DfCA. Consistent veining up to ~ 2.95 m of unit with at least two distinct vein sets, one to cm-scale quartz veins above 40 DfCA with the thicker veins thin to approximately 1 mm (10 m) and non-magnetic lower 10 m (10 m) containing quartz (veinlets) (i.e. 50 DfCA @ 263.2 m, 250 DfCA @ 283.6 m), the second set cut the core before 30 DfCA and appear to be calcite rich with significant vein parallel chlorite, several pale green veinlets also cut unit sporadically throughout appearing to be quartz rich or perhaps some type of foliation. Majority of the thicker (5 cm) quartz veins are barren (i.e. 70 DfCA @ 293.4 m, 40 DfCA @ 287.4 m), small set of cm-scale calcite-rich dike bearing veins 279.28 m (25-35 DfCA) contain specular hematite and a red stained rich vein with locally abundant quartz. Unit is hard and competent. Mafic inclusions of elongated white crystals, as well as foliation along cleavage is visible at 30 DfCA.	broken	carbonate alteration	vsk	sv	0.1	vac	0.1	vac	0.1				
GE2100114	249.34	305.9	56.54	Yes	Vm mafic volcanic	M	green	fm	massive	Pyrophyllite medium to dark grey, very fine grained matrix with fine to coarse grained, rounded to angular plagioclase phenocrysts, massive and porphyritic texture (fine possible dike crystal tufts). Unit is non-magnetic, hard and competent. Weak pervasive carbonate alteration and fine localized reddish lead alteration (Pb-Cr). Trace fine to medium grained sub-to mm-scale pyrite and several mm- to cm-scale calcite veins (i.e. 80-82 DfCA). Lower contact is sharp at 82 DfCA.	massive	chlorite alteration	vk	sv	0.1	vac	1	vac	0.1				
GE2100115	305.88	308.6	2.73	Yes	Gss stony/dk	D	gray	me	massive	Mafic volcanic: medium gray, fine to medium grained with visible fine grained feldspar grains at upper contact with texture becoming more cryptic. 2 cm (10 m) unit is massive and non-magnetic lower 10 m (10 m) containing quartz (veinlets) (i.e. 50 DfCA @ 315-317 m). Pervasive carbonate alteration throughout, along with fine weep white crystals (sericite), localized patchy but pervasive carbonate alteration (i.e. 315-317 m). Trace fine grained disseminated pyrite with numerous localized patches of increased pyrite (1%) where it is observed as medium to coarse grained euhedral to subhedral grains (i.e. 311 and 311.15 m). Minor mm- to cm-scale calcite veins with the thicker veins containing minor quartz, two apparent vein sets, one @ 40-60 DfCA with the second set ranging from 20-30 DfCA and tend to be more calcite and chlorite-rich. 5 cm quartz veins with trace pyrite and localized vein margins (45 DfCA @ 311.5 m), two discontinuous quartz-rich calc-alkaline veins with minor galena along vein margins and adjacent fracture (230 m). 30 cm slab with significant OH, thin veining and aphanitic, up to 1.25 m (200 DfCA) @ 318.07 m. Last 10 meters of unit appear to be intertorted mafic and intermediate flows with the lower contact defined by presence of bedding (bedding/veins/v. 7) at 35 DfCA.	massive	chlorite alteration	vk	sv	0.1	vac	1	vac	0.1				
GE2100116	308.6	330.9	22.32	Yes	Vm mafic volcanic	M	green	fm	massive	Mafic volcanic: medium gray, fine to medium grained with visible fine grained feldspar grains at upper contact with texture becoming more cryptic. 2 cm (10 m) unit is massive and non-magnetic lower 10 m (10 m) containing quartz (veinlets) (i.e. 50 DfCA @ 315-317 m). Pervasive carbonate alteration throughout, along with fine weep white crystals (sericite), localized patchy but pervasive carbonate alteration (i.e. 315-317 m). Trace fine grained disseminated pyrite with numerous localized patches of increased pyrite (1%) where it is observed as medium to coarse grained euhedral to subhedral grains (i.e. 309-311 m, 318 m). Minor mm- to cm-scale calcite veins with the thicker veins containing mostly quartz, two apparent vein sets, one @ 40-60 DfCA with the second set ranging from 20-30 DfCA and tend to be more calcite and chlorite-rich. 5 cm quartz veins with trace pyrite and localized vein margins (45 DfCA @ 311.5 m), two discontinuous quartz-rich calc-alkaline veins with minor galena along vein margins and adjacent fracture (230 m). 30 cm slab with significant OH, thin veining and aphanitic, up to 1.25 m (200 DfCA) @ 318.07 m. Last 10 meters of unit appear to be intertorted mafic and intermediate flows with the lower contact defined by presence of bedding (bedding/veins/v. 7) at 35 DfCA.	massive	chlorite alteration	vk	sv	0.1	vac	1	vac	0.1				
GE2100117	330.92	401.7	70.73	Yes	Thuff amorph	M	gray	fm	interbedded	Intermediate Felsic to Intermediate Volcanics, Crystal Tufts, and Siltstones (Siltstones and Sandstones) unit is a large package comprised predominantly of very fine grained to siltstone, bedded felsic to intermediate volcanic (siltstones) and medium grained, massive crystalline tufts (sandstone) along with very siliceous (charly) siltstones and a couple igneous mafic flows. The felsic to intermediate volcanic (siltstones) are medium gray, very fine to fine grained, bedded (5-25 DfCA) and range from non- to weakly magnetic. The crystal tufts (sandstone) are medium to dark gray, medium grained and massive with poorly sorted, rounded to angular crystals (feldspar) and weakly magnetic. The siltstone/charly range from dark gray to a creamy brown color, are aphanitic and bedded (20-30 DfCA) and display evidence of folding and soft sediment deformation (hanging towards lower contact). Unit is hard and competent with numerous blocky to broken sections (i.e. 263-268 m) and very weak chlorite alteration along slip surfaces and sporadic weak pervasive carbonate alteration (mainly associated with veins). Trace fine grained disseminated pyrite and minor vein/factor associated with pyrite throughout but predominantly in the fine grained volcanic and/or siltstones with an increase in clay towards lower contact. Unit appears to be cut by multiple vein sets, set of high-angle (50-70 DfCA), sub-to mm-scale bore white calcite stringers, low-angle (15-30 DfCA) calcite veins which appear to fracture host rock in sections (i.e. 280-290 m), set of low-angle (15-30 DfCA) calcite veins which appear to fracture host rock in sections (i.e. 280-290 m), and two discontinuous quartz-rich calc-alkaline veins with minor galena along vein margins and adjacent fracture (230 m). 30 cm slab with significant OH, thin veining and aphanitic, up to 1.25 m (200 DfCA) @ 238.07 m. Last 10 meters of unit appear to be intertorted mafic and intermediate flows with the lower contact defined by presence of bedding (bedding/veins/v. 7) at 35 DfCA.	foliated	chlorite alteration	vk	sv	0.1	sv	0.01	vac	2	vac	1		
GE2100118	401.65	408.6	6.96	Yes	Lam lamprophyre	M	gray	me	massive	Lamprophyre medium to dark gray, very fine grained matrix with fine to coarse grained, rounded to angular plagioclase phenocrysts, massive and porphyritic texture (fine possible dike crystal tufts). Unit is non-magnetic, hard and competent. Weak pervasive carbonate alteration and fine localized reddish lead alteration (Pb-Cr). Trace fine to medium grained sub-to mm-scale pyrite and several mm- to cm-scale calcite veins (i.e. 80-82 DfCA). Lower contact is sharp at 82 DfCA.	massive	carbonate alteration	vk	sv	0.1	vac	0.1	vac	0.1				
GE2100119	408.6	417.8	9.35	Yes	Sil siltstone	M	pink grey	vfa	general	Mafic volcanic: medium gray, fine to medium grained with visible fine grained feldspar grains at upper contact with texture becoming more cryptic. 2 cm (10 m) unit is massive and non-magnetic lower 10 m (10 m) containing quartz (veinlets) (i.e. 50 DfCA @ 315-317 m). Pervasive carbonate alteration throughout, along with fine weep white crystals (sericite), localized patchy but pervasive carbonate alteration (i.e. 315-317 m). Trace fine grained disseminated pyrite with numerous localized patches of increased pyrite (1%) where it is observed as medium to coarse grained euhedral to subhedral grains (i.e. 309-311 m, 318 m). Minor mm- to cm-scale calcite veins with the thicker veins containing mostly quartz, two apparent vein sets, one @ 40-60 DfCA with the second set ranging from 20-30 DfCA and tend to be more calcite and chlorite-rich. 5 cm quartz veins with trace pyrite and localized vein margins (45 DfCA @ 311.5 m), two discontinuous quartz-rich calc-alkaline veins with minor galena along vein margins and adjacent fracture (230 m). 30 cm slab with significant OH, thin veining and aphanitic, up to 1.25 m (200 DfCA) @ 318.07 m. Last 10 meters of unit appear to be intertorted mafic and intermediate flows with the lower contact defined by presence of bedding (bedding/veins/v. 7) at 35 DfCA.	foliated/foliat	carbonate alteration	vk	sv	1	sv	0.1	vac	0.1				
GE2100120	408.6	417.8	9.35	Yes	Sil siltstone	M	pink grey	vfa	general	Mafic volcanic: medium gray, fine to medium grained with visible fine grained feldspar grains at upper contact with texture becoming more cryptic. 2 cm (10 m) unit is massive and non-magnetic lower 10 m (10 m) containing quartz (veinlets) (i.e. 50 DfCA @ 315-317 m). Pervasive carbonate alteration throughout, along with fine weep white crystals (sericite), localized patchy but pervasive carbonate alteration (i.e. 315-317 m). Trace fine grained disseminated pyrite with numerous localized patches of increased pyrite (1%) where it is observed as medium to coarse grained euhedral to subhedral grains (i.e. 309-311 m, 318 m). Minor mm- to cm-scale calcite veins with the thicker veins containing mostly quartz, two apparent vein sets, one @ 40-60 DfCA with the second set ranging from 20-30 DfCA and tend to be more calcite and chlorite-rich. 5 cm quartz veins with trace pyrite and localized vein margins (45 DfCA @ 311.5 m), two discontinuous quartz-rich calc-alkaline veins with minor galena along vein margins and adjacent fracture (230 m). 30 cm slab with significant OH, thin veining and aphanitic, up to 1.25 m (200 DfCA) @ 318.07 m. Last 10 meters of unit appear to be intertorted mafic and intermediate flows with the lower contact defined by presence of bedding (bedding/veins/v. 7) at 35 DfCA.	foliated/foliat	carbonate alteration	vk	sv	1	sv	0.1	vac	0.1				
GE2100121	306.88	329.2	22.27	Yes	Vm mafic volcanic	M	green	fm	massive	Pyrophyllite medium to dark grey, very fine grained matrix with fine to coarse grained, rounded to angular plagioclase phenocrysts, massive and porphyritic texture (fine possible dike crystal tufts). Unit is non-magnetic, hard and competent. Weak pervasive carbonate alteration and fine localized reddish lead alteration (Pb-Cr). Trace fine to medium grained sub-to mm-scale pyrite and several mm- to cm-scale calcite veins (i.e. 80-82 DfCA). Lower contact is sharp at 82 DfCA.	massive	chlorite alteration	vk	sv	0.1	vac	1	vac	0.1				
GE2100122	330.92	401.7	70.73	Yes	Thuff amorph	M	gray	fm	interbedded	Intermediate Felsic to Intermediate Volcanics, Crystal Tufts, and Siltstones (Siltstones and Sandstones) unit is a large package comprised predominantly of very fine grained to siltstone, bedded felsic to intermediate volcanic (siltstones) and medium grained, massive crystalline tufts (sandstone) along with very siliceous (charly) siltstones and a couple igneous mafic flows. The felsic to intermediate volcanic (siltstones) are medium gray, very fine to fine grained, bedded (5-25 DfCA) and range from non- to weakly magnetic. The crystal tufts (sandstone) are medium to dark gray, medium grained and massive with poorly sorted, rounded to angular crystals (feldspar) and weakly magnetic. The siltstone/charly range from dark gray to a creamy brown color, are aphanitic and bedded (20-30 DfCA) and display evidence of folding and soft sediment deformation (hanging towards lower contact). Unit is hard and competent with numerous blocky to broken sections (i.e. 263-268 m) and very weak chlorite alteration along slip surfaces and sporadic weak pervasive carbonate alteration (mainly associated with veins). Trace fine grained disseminated pyrite and minor vein/factor associated with pyrite throughout but predominantly in the fine grained volcanic and/or siltstones with an increase in clay towards lower contact. Unit appears to be cut by multiple vein sets, set of high-angle (50-70 DfCA), sub-to mm-scale bore white calcite stringers, low-angle (15-30 DfCA) calcite veins which appear to fracture host rock in sections (i.e. 280-290 m), set of low-angle (15-30 DfCA) calcite veins which appear to fracture host rock in sections (i.e. 280-290 m), and two discontinuous quartz-rich calc-alkaline veins with minor galena along vein margins and adjacent fracture (230 m). 30 cm slab with significant OH, thin veining and aphanitic, up to 1.25 m (200 DfCA) @ 238.07 m. Last 10 meters of unit appear to be intertorted mafic and intermediate flows with the lower contact defined by presence of bedding (bedding/veins/v. 7) at 35 DfCA.	massive	chlorite alteration	vk	sv	0.1	vac	1	vac	0.1				
GE2100123	328.15	399.9	70.77	Yes	Thuff amorph	M	gray	fm	interbedded	Lamprophyre dark grey, fine to medium grained and weakly magnetic, with strong magnetism in areas. Large biotite presence [CPN], grain size is fine-medium grained and green olivine increases with increasing depth to a medium grain size. Rock is unaltered and unmetamorphosed. Unit is competent and is to vertical. Lower contact observed at 20 DfCA.	massive	carbonate alteration	vk	sv	0.1	vac	2	vac	0.1				
GE2100124	399.92	407.8	7.87	Yes	Lam lamprophyre	D	gray	fm	massive	Intermediate Felsic to Intermediate Volcanics, Crystal Tufts, and Siltstones (Siltstones and Sandstones) unit is a large package comprised predominantly of very fine grained to siltstone, bedded felsic to intermediate volcanic (siltstones) and medium grained, massive crystalline tufts (sandstone) along with very siliceous (charly) siltstones and a couple igneous mafic flows. The felsic to intermediate volcanic (siltstones) are medium gray, very fine to fine grained, bedded (5-25 DfCA) and range from non- to weakly magnetic. The crystal tufts (sandstone) are medium to dark gray, medium grained and massive with poorly sorted, rounded to angular crystals (feldspar) and weakly magnetic. The siltstone/charly range from dark gray to a creamy brown color, are aphanitic and bedded (20-30 DfCA) and display evidence of folding and soft sediment deformation (hanging towards lower contact). Unit is hard and competent with numerous blocky to broken sections (i.e. 263-268 m) and very weak chlorite alteration along slip surfaces and sporadic weak pervasive carbonate alteration (mainly associated with veins). Trace fine grained disseminated pyrite and minor vein/factor associated with pyrite throughout but predominantly in the fine grained volcanic and/or siltstones with an increase in clay towards lower contact. Unit appears to be cut by multiple vein sets, set of high-angle (50-70 DfCA), sub-to mm-scale bore white calcite stringers, low-angle (15-30 DfCA) calcite veins which appear to fracture host rock in sections (i.e. 280-290 m), set of low-angle (15-30 DfCA) calcite veins which appear to fracture host rock in sections (i.e. 280-290 m), and two discontinuous quartz-rich calc-alkaline veins with minor galena along vein margins and adjacent fracture (230 m). 30 cm slab with significant OH, thin veining and aphanitic, up to 1.25 m (200 DfCA) @ 238.07 m. Last 10 meters of unit appear to be intertorted mafic and intermediate flows with the lower contact defined by presence of bedding (bedding/veins/v. 7) at 3													

021002	260.55	277.4	16.80	Vm mafic volcanic	M	black grey	fine massive	mafic	mafic	chlorite alteration	wk mod	qv	3	vb	1	vc	1		
021002	277.35	278.1	0.75	Vp Quartz Carbonate vein	L	cream white	fg win/veining	quartz carbonate	mafic	hematite alteration	wk	qv	2	hr	1	vp	85	vb	2
021002	278.1	294.6	16.45	Vd intermediate volcanic	M	black grey	fmg massive	intermediate	mafic	chlorite alteration	wk mod	qv	1	vc	1	vb	1		
021002	294.55	299.1	4.56	Gv intermediate rock (undifferentiated)	L	cream grey	vfr homogeneous	intermediate	mafic	alteration	mod	qv	1	vb	1	vc	1		
021002	299.1	305.7	6.60	Vm ultramafic volcanic	D	black grey	fg massive	ultramafic	mafic	chlorite alteration	mod talc alteration wk	qv	1	vc	10				
021002	305.7	312.2	6.50	Gv felsic rock (undifferentiated)	L	cream grey	fmg massive	felsic	mafic	alteration	str	qv	1	vc	10				
021002	312.2	311.4	1.16	Vm ultramafic volcanic	D	black grey	fg massive	ultramafic	mafic	chlorite alteration	mod talc alteration wk	qv	1	vc	10				
021002	313.35	324	10.65	Gv felsic rock (undifferentiated)	M	cream grey	fmg massive	felsic	mafic	alteration	mod	qv	1	vc	1				
021002	324	333.5	9.49	Vm ultramafic volcanic	D	black grey	fg foliated	ultramafic	mafic	chlorite alteration	mod	qv	3	vb	5	vc	5		
021002	333.48	333.8	0.32	Gv felsic rock (undifferentiated)	M	cream grey	fmg massive	felsic	mafic	alteration	mod	qv	1	vc	1				
021002	333.79	334	0.19	Vm ultramafic volcanic	D	black grey	fg massive	ultramafic	mafic	chlorite alteration	mod	qv	1	vc	1				
021002	333.97	334.8	0.83	Gv felsic rock (undifferentiated)	M	cream grey	fmg massive	felsic	mafic	alteration	wk mod	qv	1	vc	1				
021002	334.82	388.4	53.58	Grb andite	M	brown grey	fine massive	andite	mafic	epidote alteration	mod dr potassic mod dr	qv	1	op	1	sp	1		
021002	388.4	388.5	0.11	Vein	M	green olive	fmg win/veining	vein	mafic	epidote alteration	mod dr potassic mod dr	qv	1	op	1	sp	1		
021002	388.5	394	5.55	Grb andite	M	green olive	fine massive	andite	mafic	epidote alteration	mod dr potassic mod dr	qv	1	op	1	sp	1		
021002	394.04	395.3	1.29	Gv intermediate rock (undifferentiated)	M	cream grey	vfr homogeneous	intermediate	mafic	alteration	wk	qv	1	vc	1				
021002	395.31	409.6	14.26	Grb andite	M	green olive	fine massive	andite	mafic	epidote alteration	mod dr potassic mod dr	qv	1	op	1	sp	1		
021002	409.10	700	292.41	Dv Diabase	M	grey	fmg massive	diabase	mafic	alteration	wk	qv	1	vc	1				

6. APPENDIX

APPENDIX 1: MINING CLAIMS CELL LIST

APPENDIX 2: DRILL HOLE METADATA

APPENDIX 3: DRILL HOLE TEXT LOGS

APPENDIX 4: CERTIFICATES OF ANALYSES

APPENDIX 5: ASSAY DATA

APPENDIX 6: CROSS SECTION GRAPHIC LOGS AND ASSAYS



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To: NORTH AMERICAN COBALT – BATTERY
 MINERALS RESOURCES
 THE PACIFIC BUILDING
 SUITE 400, 744 WEST HASTINGS STREET
 VANCOUVER BC V6C 1A5

Page: 1
 Total # Pages: 2 (A)
 Plus Appendix Pages
 Finalized Date: 15-OCT-2021
 This copy reported on
 1-NOV-2021
 Account: BMRPLLBW

CERTIFICATE SD21268224

Project: Gowganda East-GE21-001

This report is for 1 sample of Drill Core submitted to our lab in Sudbury, ON, Canada on 5-OCT-2021.

The following have access to data associated with this certificate:

PETER DOYLE KAJAL MAKWANA	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS
------------------------------	-----------------------------------	------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Aq-CON01	Ag Concentrate	

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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VANCOUVER BC V6C 1A5

Project: Gowganda East-GE21-001

Page: 2 – A
Total # Pages: 2 (A)
Plus Appendix Pages
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Account: BMRPLLBW

CERTIFICATE OF ANALYSIS SD21268224

Sample Description	Method Analyte Units LOD
R3847	Ag-CON01 Ag ppm 0.7 13948.0



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Project: Gowganda East-GE21-001

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 15-OCT-2021
Account: BMRPLLBW

CERTIFICATE OF ANALYSIS SD21268224

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Ag-CON01 FND-02



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To: NORTH AMERICAN COBALT – BATTERY
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Page: 1
 Total # Pages: 3 (A – D)
 Plus Appendix Pages
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 26-AUG-2021
 Account: BMRPLLBW

CERTIFICATE SD21186456

Project: Gowganda East-GE21-001
 P.O. No.: GE21-001
 This report is for 79 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 19-JUL-2021.
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
--	-----------------------------------	-----------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-QC	Crushing QC Test
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	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
Aq-OG62	Ore Grade Ag – Four Acid	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Co-OG62	Ore Grade Co – Four Acid	
Cu-OG62	Ore Grade Cu – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	
Aq-GRA21	Ag 30g FA-GRAV finish	WST-SIM
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM

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: NORTH AMERICAN COBALT – BATTERY
 MINERALS RESOURCES
 THE PACIFIC BUILDING
 SUITE 400, 744 WEST HASTINGS STREET
 VANCOUVER BC V6C 1A5

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 Finalized Date: 19–AUG–2021
 Account: BMRPLLBW

Project: Gowganda East–GE21–001

CERTIFICATE OF ANALYSIS SD21186456

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
R3776		1.90	0.04	7.16	1.2	80	1.76	0.13	0.24	<0.02	88.3	12.3	80	0.43	245	2.52
R3777		1.03	0.03	8.72	0.5	20	0.73	0.06	0.23	<0.02	23.4	5.6	89	0.05	54.0	1.10
R3778		1.68	1.57	7.56	9.0	520	1.13	4.27	2.11	0.21	46.9	36.8	47	0.95	1980	5.43
R3779		0.47	0.55	8.13	22.2	1120	1.02	0.28	0.74	5.43	48.9	21.3	18	1.09	122.5	3.56
R3780		0.56	0.44	8.31	23.0	1180	1.03	0.17	0.76	5.01	42.5	12.9	18	1.12	74.2	2.69
R3781		0.12	4.34	5.89	14.2	130	0.63	0.89	3.63	2.19	18.20	1050	288	0.81	>10000	19.30
R3782		0.93	0.60	7.31	13.2	880	0.92	0.36	1.08	0.04	47.0	30.3	22	1.58	209	5.07
R3783		2.16	0.08	7.58	1.3	40	0.19	0.07	11.20	0.06	8.30	41.1	604	0.11	64.5	7.20
R3784		2.17	0.17	7.29	1.7	70	0.21	0.07	7.06	9.56	13.15	66.0	347	0.26	22.1	8.54
R3785		1.13	0.17	7.23	3.7	130	0.75	0.22	6.59	0.09	32.1	60.8	58	0.27	62.8	9.85
R3786		0.93	0.09	7.42	4.0	190	0.79	0.12	6.06	0.08	39.6	63.4	59	0.58	49.3	9.76
R3787		0.94	0.01	3.17	0.5	50	0.11	0.04	3.80	0.02	3.11	19.3	165	0.08	19.7	3.12
R3788		1.02	0.01	7.10	0.3	50	0.24	0.04	4.22	0.02	5.85	38.0	307	0.17	5.2	6.37
R3789		1.72	0.01	1.37	0.5	80	0.06	0.03	1.37	<0.02	1.21	6.7	95	0.06	2.3	1.40
R3790		0.82	0.07	6.68	1.0	20	0.41	0.16	4.88	0.02	4.57	41.2	312	0.41	46.2	6.40
R3791		1.02	0.05	7.03	2.4	40	0.30	0.07	7.62	0.06	8.07	39.8	292	0.16	97.9	6.41
R3792		1.02	0.02	4.12	0.4	450	0.15	0.04	3.76	0.02	2.67	19.6	184	0.07	23.9	3.68
R3793		1.97	0.01	6.62	1.0	110	0.22	0.04	8.17	0.03	6.76	30.9	243	0.28	37.5	5.35
R3794		2.00	0.04	6.04	7.4	1990	2.09	0.14	8.19	0.06	231	37.6	236	1.57	66.2	5.91
R3795		1.92	0.24	6.65	2.9	70	0.42	0.13	5.28	0.03	29.7	52.9	455	0.27	93.7	8.09
R3796		1.98	0.02	7.91	1.3	200	0.62	0.08	5.43	0.02	17.80	27.0	548	0.25	45.0	4.62
R3797		1.87	0.06	6.91	7.0	80	1.79	0.18	4.99	0.02	38.0	37.0	392	0.74	66.3	5.31
R3798		1.31	0.06	6.40	6.4	140	2.24	0.24	7.02	0.04	51.1	57.8	473	1.33	63.7	8.24
R3799		0.63	0.05	6.57	1.7	80	1.01	0.07	6.95	0.03	34.7	40.6	513	0.92	56.3	7.48
R3800		0.86	0.05	6.44	1.5	70	1.14	0.06	7.29	0.03	27.7	40.0	499	1.04	79.8	7.80
R3801		0.12	4.25	5.56	14.5	120	0.58	0.95	3.42	2.14	17.15	1005	279	0.80	>10000	18.85
R3802		0.93	0.07	5.06	2.1	80	2.18	0.05	14.50	<0.02	74.1	23.3	278	0.85	86.2	6.59
R3803		0.93	0.11	4.01	6.3	10	0.96	0.19	8.65	0.02	8.04	18.9	25	1.44	25.6	5.99
R3804		0.96	0.36	7.09	6.8	330	0.33	0.66	5.84	0.07	8.45	37.8	69	0.49	126.0	10.50
R3805		1.47	1.16	2.59	50.5	90	0.50	2.57	1.82	0.06	8.73	57.3	50	1.72	224	4.76
R3806		1.76	2.85	1.12	16.6	30	0.26	5.49	1.32	0.05	1.40	19.4	38	0.25	246	2.58
R3807		1.10	0.54	6.79	1.9	110	0.69	0.88	3.26	0.20	15.60	25.0	77	1.41	685	11.30
R3808		1.04	0.13	7.33	5.3	40	1.07	0.12	2.40	<0.02	24.2	12.8	15	0.40	197.0	3.73
R3809		1.03	0.10	7.18	2.0	80	1.38	0.03	1.50	<0.02	34.9	9.5	25	0.92	52.1	4.98
R3810		0.98	2.64	5.55	37.4	370	1.97	0.44	1.92	0.31	99.3	20.6	53	3.04	999	5.81
R3811		1.83	3.04	7.20	400	20	0.49	0.41	0.99	10.05	27.8	26.7	26	0.08	500	1.71
R3812		1.69	1.78	7.59	312	20	0.76	0.56	0.90	4.65	24.7	129.5	92	0.28	282	4.72
R3813		1.94	1.33	7.88	109.0	200	0.67	0.14	6.16	0.39	13.85	38.1	97	1.34	115.5	7.39
R3814		0.88	9.81	6.16	775	110	0.69	2.51	6.93	0.51	23.1	257	60	1.06	1735	6.14
R3815		2.15	1.02	7.75	85.3	280	0.41	0.08	6.61	0.15	12.40	41.1	103	1.82	116.0	7.73



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Project: Gowganda East-GE21-001

CERTIFICATE OF ANALYSIS SD21186456

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
R3776		15.80	0.17	3.7	0.016	0.45	43.4	24.8	1.39	180	1.12	4.76	5.7	34.3	610	4.3
R3777		13.60	0.12	4.4	0.006	0.31	9.4	9.0	0.63	87	0.16	8.20	7.1	14.0	880	10.0
R3778		17.55	0.22	4.5	0.117	5.38	20.3	17.3	1.16	564	2.71	0.10	6.5	55.8	960	345
R3779		17.10	0.24	4.7	0.096	5.96	21.6	11.9	0.87	268	1.82	0.05	6.4	31.3	820	754
R3780		18.05	0.24	4.8	0.091	6.08	18.2	11.6	0.86	263	1.83	0.05	6.5	24.7	800	785
R3781		12.45	0.36	1.4	0.127	0.37	7.9	10.3	4.27	1060	5.11	1.27	5.3	>10000	490	19.6
R3782		16.15	0.22	4.7	0.051	4.20	20.2	17.8	1.31	329	2.76	0.04	5.9	68.3	610	65.4
R3783		16.75	0.08	0.9	0.063	0.17	3.5	14.9	5.41	1240	1.00	1.68	1.2	120.0	230	4.6
R3784		15.55	0.09	1.2	0.057	0.26	6.2	77.6	7.26	1360	0.29	1.73	2.0	225	260	691
R3785		18.50	0.13	3.0	0.063	0.63	15.0	34.7	4.16	1220	1.63	2.58	9.4	67.6	680	57.9
R3786		19.30	0.14	3.1	0.078	0.90	18.6	31.7	3.88	1280	1.18	2.50	10.0	58.1	730	37.0
R3787		6.21	0.06	0.3	0.016	0.06	1.2	19.1	2.13	565	1.24	0.92	0.6	44.2	90	1.3
R3788		12.90	0.08	0.5	0.034	0.15	2.2	40.1	4.66	981	1.08	2.20	1.1	88.5	160	2.0
R3789		2.59	0.05	0.1	0.007	0.04	0.5	7.4	0.79	230	2.10	0.46	0.3	16.2	40	0.5
R3790		15.80	0.08	0.8	0.036	0.04	1.4	37.3	5.33	751	24.8	2.11	1.5	105.5	170	3.1
R3791		12.45	0.07	0.6	0.047	0.14	3.4	32.7	4.62	1120	5.16	2.08	1.1	111.0	230	6.7
R3792		7.35	0.05	0.3	0.016	0.06	1.1	17.3	2.47	586	1.41	1.43	0.5	47.4	90	0.7
R3793		12.10	0.07	0.4	0.033	0.41	2.7	20.8	3.74	980	0.73	1.51	0.9	70.1	220	1.2
R3794		16.55	0.39	10.1	0.067	1.47	99.0	23.9	5.40	1090	0.51	1.62	11.9	235	5380	8.1
R3795		14.50	0.12	1.3	0.055	0.18	12.7	28.1	6.89	1340	0.41	2.20	1.8	236	570	6.5
R3796		16.30	0.09	1.5	0.035	0.48	8.1	15.4	3.69	792	0.22	3.42	1.2	92.8	290	3.9
R3797		15.35	0.12	1.8	0.042	0.20	17.6	18.2	4.60	915	0.36	4.11	6.7	165.5	820	5.2
R3798		13.10	0.14	1.2	0.060	0.43	24.0	36.2	7.08	1400	0.14	2.31	6.8	233	870	6.3
R3799		11.90	0.11	0.7	0.056	0.24	18.6	32.2	5.95	1160	0.14	2.48	2.7	160.0	410	3.5
R3800		12.00	0.09	0.9	0.062	0.24	13.8	32.3	6.15	1200	0.52	2.31	3.4	190.0	540	5.6
R3801		11.95	0.33	1.4	0.123	0.33	7.5	9.8	4.12	1030	6.04	1.24	5.2	>10000	450	19.5
R3802		8.31	0.15	0.5	0.142	0.29	35.2	24.0	2.86	1520	0.89	2.62	1.4	135.5	160	4.9
R3803		9.54	0.10	0.6	0.114	0.03	3.0	65.0	3.30	1260	1.32	1.21	1.2	35.1	220	15.3
R3804		17.20	0.07	0.9	0.130	0.99	3.5	31.1	4.25	2610	0.56	2.29	1.8	58.4	230	75.9
R3805		8.64	0.08	0.5	0.265	0.48	4.2	19.8	2.17	827	6.52	1.05	1.3	43.8	100	210
R3806		3.70	0.06	0.1	0.181	0.08	0.6	6.6	1.15	519	4.72	0.48	0.3	14.3	30	875
R3807		17.30	0.09	1.1	0.114	0.30	7.8	28.1	3.93	1880	2.53	3.19	1.9	65.9	280	69.4
R3808		16.70	0.09	2.4	0.057	0.13	12.6	40.3	1.70	366	0.72	4.76	3.3	15.8	450	4.7
R3809		18.35	0.12	2.1	0.070	0.43	16.1	70.3	2.61	395	1.55	3.96	4.4	32.4	550	2.7
R3810		16.35	0.21	3.8	0.080	0.83	40.9	41.7	3.81	924	0.94	2.92	5.3	74.8	2560	75.3
R3811		15.25	0.13	3.1	0.036	0.04	12.7	14.7	0.74	242	1.96	5.90	5.9	197.5	590	5860
R3812		19.60	0.12	3.1	0.034	0.07	10.4	46.5	2.41	471	2.84	4.74	4.7	100.5	610	1880
R3813		15.30	0.10	1.5	0.054	1.21	6.6	47.3	4.39	1460	0.45	2.40	2.5	98.1	280	95.8
R3814		14.25	0.11	2.1	0.101	0.64	10.4	41.6	3.33	1440	2.81	2.39	3.8	95.5	440	1620
R3815		15.10	0.12	1.4	0.050	1.97	6.3	31.7	4.47	1580	0.44	1.54	2.3	102.0	260	10.9



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		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
R3776		16.3	<0.002	0.05	0.10	9.9	1	1.3	99.8	0.50	<0.05	8.94	0.225	0.11	3.1	63
R3777		2.0	<0.002	<0.01	0.10	5.4	1	0.5	31.6	0.63	<0.05	10.30	0.273	<0.02	1.4	39
R3778		90.7	0.002	3.05	0.40	9.6	2	1.7	41.5	0.43	0.31	2.65	0.337	0.98	0.8	71
R3779		80.6	0.002	1.34	0.42	10.0	1	1.5	41.6	0.43	0.22	2.65	0.386	0.57	1.2	79
R3780		68.7	0.002	0.48	0.29	9.8	1	1.6	41.7	0.43	0.13	2.83	0.380	0.56	1.3	74
R3781		12.6	0.052	8.46	3.65	9.5	25	2.8	198.5	0.32	4.88	1.24	0.551	0.22	0.4	84
R3782		83.2	0.003	2.67	0.29	8.8	3	0.8	34.5	0.43	0.52	2.95	0.298	0.51	0.8	59
R3783		2.9	<0.002	0.03	0.34	34.7	1	0.9	456	0.08	<0.05	0.30	0.333	0.02	0.1	207
R3784		5.0	<0.002	0.09	0.20	33.5	1	1.0	553	0.12	<0.05	0.50	0.351	0.04	0.3	200
R3785		22.7	0.003	0.15	0.05	41.3	<1	0.8	179.5	0.55	<0.05	2.40	0.774	0.14	0.6	294
R3786		37.2	0.002	0.14	0.05	44.4	1	0.9	200	0.58	<0.05	2.59	0.823	0.24	0.8	312
R3787		1.4	<0.002	0.02	<0.05	13.8	<1	0.2	54.0	<0.05	<0.05	0.13	0.135	<0.02	<0.1	79
R3788		2.3	<0.002	0.02	0.15	27.7	<1	0.3	96.6	0.07	<0.05	0.25	0.284	<0.02	0.1	166
R3789		1.1	<0.002	0.01	<0.05	5.3	<1	<0.2	20.1	<0.05	<0.05	0.06	0.057	<0.02	<0.1	35
R3790		1.1	0.013	0.31	0.28	24.1	1	0.6	45.8	0.07	0.08	0.54	0.269	0.02	0.2	163
R3791		3.0	0.002	0.13	1.04	28.4	1	0.4	136.0	0.07	<0.05	0.28	0.287	0.02	0.1	168
R3792		1.0	<0.002	0.15	<0.05	15.4	<1	0.2	57.3	<0.05	<0.05	0.14	0.149	<0.02	<0.1	95
R3793		10.1	<0.002	0.02	0.08	27.5	<1	0.3	148.5	0.06	<0.05	0.22	0.263	0.04	0.1	153
R3794		50.6	<0.002	0.28	0.18	24.3	1	1.8	556	0.51	<0.05	14.00	0.634	0.20	2.6	144
R3795		4.1	<0.002	0.09	0.12	32.3	1	0.4	138.0	0.11	<0.05	1.68	0.356	0.02	0.4	192
R3796		8.6	<0.002	0.05	0.16	21.2	<1	0.4	357	0.08	<0.05	1.23	0.241	0.05	0.4	123
R3797		4.9	<0.002	0.39	0.17	15.9	1	0.5	243	0.27	<0.05	1.51	0.260	0.03	0.5	122
R3798		12.6	<0.002	0.20	0.29	26.4	<1	0.5	443	0.29	<0.05	1.15	0.337	0.06	0.3	202
R3799		6.8	<0.002	0.03	0.31	28.1	<1	0.3	262	0.13	<0.05	0.54	0.280	0.04	0.2	163
R3800		7.0	<0.002	0.02	0.57	26.4	<1	0.4	294	0.14	<0.05	0.67	0.287	0.03	0.2	162
R3801		11.5	0.048	8.15	4.19	9.0	23	2.7	188.0	0.33	4.83	1.13	0.545	0.20	0.4	82
R3802		7.2	<0.002	0.02	0.84	29.1	<1	1.5	124.5	0.06	0.05	0.34	0.180	0.03	0.3	127
R3803		2.3	0.005	0.03	0.80	17.4	<1	0.4	28.7	0.08	<0.05	0.31	0.272	0.02	0.1	143
R3804		24.7	0.004	0.08	0.55	29.6	<1	0.7	92.6	0.10	<0.05	0.49	0.414	0.08	0.1	202
R3805		26.2	0.005	0.04	0.47	11.8	<1	0.5	31.7	0.06	<0.05	1.24	0.182	0.13	0.2	86
R3806		2.9	0.003	0.04	0.23	4.8	<1	0.3	13.7	<0.05	<0.05	0.16	0.050	0.03	0.1	33
R3807		12.5	0.003	0.07	0.34	26.3	<1	0.8	61.8	0.12	<0.05	0.47	0.444	0.06	0.5	209
R3808		1.7	0.002	0.05	0.24	9.2	<1	1.5	130.5	0.27	<0.05	1.96	0.202	<0.02	0.6	54
R3809		11.2	0.002	0.01	0.40	9.0	<1	0.7	81.2	0.34	<0.05	2.04	0.251	0.05	0.5	74
R3810		45.6	0.002	0.19	0.80	11.3	<1	1.7	70.4	0.27	<0.05	10.15	0.358	0.22	2.4	82
R3811		0.8	0.010	0.33	7.64	7.0	<1	0.3	31.8	0.58	0.06	3.78	0.211	0.02	1.1	46
R3812		2.8	0.004	0.18	2.80	14.8	<1	0.5	34.2	0.45	<0.05	4.22	0.258	0.02	1.8	90
R3813		40.6	0.005	0.09	4.84	36.0	<1	0.6	127.5	0.18	<0.05	1.89	0.394	0.26	0.6	233
R3814		28.7	0.003	0.26	7.59	24.5	<1	0.6	82.9	0.29	0.10	2.81	0.345	0.16	1.3	161
R3815		69.6	0.004	0.08	6.73	36.6	<1	0.7	145.5	0.17	<0.05	1.74	0.377	0.45	0.5	231



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CERTIFICATE OF ANALYSIS SD21186456

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Co-OG62	Cu-OG62	Ni-OG62	Ag-GRA21	Au-ICP21	Au-GRA21	CRU-QC	PUL-QC
		W	Y	Zn	Zr	Ag	Co	Cu	Ni	Ag	Au	Au	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	ppm	%	%
		0.1	0.1	2	0.5	1	0.0005	0.001	0.001	5	0.001	0.05	0.01	0.01
R3776		0.6	14.4	21	131.5						0.001		75.4	98.8
R3777		0.2	9.5	10	158.5						0.001			96.8
R3778		0.9	11.4	132	175.0						0.026			
R3779		0.7	11.4	1910	187.5						0.004			
R3780		0.7	11.7	1840	196.0						0.002			
R3781		2.5	9.8	157	58.5			1.650	4.65		0.226			
R3782		0.9	12.8	87	176.0						0.007			
R3783		0.3	12.2	82	29.0						0.001			
R3784		0.2	12.6	922	42.7						0.002			
R3785		0.3	21.0	177	110.0						<0.001			
R3786		0.3	24.9	160	117.5						<0.001			
R3787		0.2	4.9	34	5.9						0.001			
R3788		0.3	9.2	74	12.9						<0.001			
R3789		0.2	1.9	13	2.9						0.001			87.6
R3790		1.7	16.9	102	24.0						0.005			91.0
R3791		0.4	11.5	81	20.5						<0.001			
R3792		0.2	5.1	37	9.0						<0.001			
R3793		0.3	9.6	51	14.6						0.001			
R3794		2.3	27.7	121	363						<0.001			
R3795		0.3	14.4	94	51.5						0.001			
R3796		0.2	7.9	60	51.4						<0.001			
R3797		0.2	9.5	109	69.5						<0.001			
R3798		0.2	13.7	138	51.4						<0.001			
R3799		0.3	10.6	94	27.0						0.002			89.5
R3800		0.3	11.4	102	31.8						0.001			90.3
R3801		2.5	9.8	150	57.3			1.625	4.64		0.329			
R3802		2.8	60.1	51	16.8						0.002			
R3803		0.2	14.8	97	25.2						0.001			
R3804		0.3	15.0	230	35.2						0.001			
R3805		0.7	5.8	96	22.0						0.016			
R3806		0.3	1.9	45	6.2						0.011			
R3807		0.3	17.6	183	43.5						0.001			
R3808		0.5	9.6	26	98.0						0.001			
R3809		0.6	8.6	38	86.9						0.001			
R3810		0.4	17.4	213	170.5						0.025			
R3811		0.2	9.8	2590	118.0						0.011			
R3812		0.3	11.8	1250	121.5						0.005			
R3813		0.3	15.2	170	58.8						0.003			
R3814		0.3	18.8	206	82.7						0.006			88.8
R3815		0.3	14.5	98	54.5						0.004		72.7	90.3



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CERTIFICATE OF ANALYSIS SD21186456

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
R3816		0.96	3.04	6.67	176.0	60	0.79	1.01	11.80	0.09	50.2	94.6	107	0.53	606	6.80
R3817		1.99	0.09	8.36	4.5	200	0.28	0.05	7.88	0.07	8.64	37.2	140	1.89	115.5	6.52
R3818		1.31	0.10	6.88	80.9	130	1.40	0.17	8.41	0.06	10.40	51.6	228	2.01	126.5	6.85
R3819		0.77	0.19	3.62	1320	20	1.06	3.33	6.15	<0.02	13.00	963	78	1.59	171.5	4.40
R3820		1.04	0.15	3.61	1620	10	1.11	3.31	6.97	<0.02	14.05	1180	118	1.76	61.9	4.38
R3821		<0.02	0.77	7.35	8.9	260	1.06	0.07	5.58	0.79	33.9	>10000	183	0.72	1935	7.44
R3822		0.72	0.16	8.12	1480	100	2.43	2.85	5.17	<0.02	11.65	1100	189	2.13	45.6	5.67
R3823		1.82	0.12	8.64	447	160	2.25	1.41	4.79	<0.02	7.63	294	232	1.82	43.9	5.45
R3824		1.11	0.21	3.15	390	20	0.85	1.97	11.05	<0.02	25.7	251	71	1.24	52.3	3.61
R3825		0.36	0.01	0.10	3.2	20	0.08	0.03	34.9	0.02	1.14	5.8	4	<0.05	2.4	0.16
R3826		0.89	0.11	2.01	178.0	10	1.33	1.64	20.0	<0.02	56.6	103.5	38	0.69	2.1	2.40
R3827		1.70	0.05	1.66	67.1	10	1.45	0.63	21.4	<0.02	53.5	32.3	50	0.60	11.2	1.84
R3828		0.89	0.08	8.47	159.0	100	2.42	0.61	7.57	0.02	14.05	74.8	184	2.27	55.9	5.82
R3829		1.05	0.05	6.89	134.5	60	1.59	0.43	4.27	<0.02	8.03	59.6	196	2.25	83.6	6.16
R3830		1.36	0.11	8.51	95.4	240	2.58	0.12	9.38	0.04	11.20	36.4	225	2.52	137.0	4.97
R3831		0.89	0.13	7.56	168.5	170	2.52	0.33	9.73	<0.02	13.00	38.9	280	2.69	133.5	4.26
R3832		0.96	0.13	6.65	863	60	1.46	2.04	6.12	<0.02	12.75	592	222	2.22	41.9	5.69
R3833		1.93	0.09	9.07	60.2	170	0.69	0.12	7.41	0.08	9.61	39.5	225	1.06	98.9	5.36
R3834		1.88	0.08	8.35	10.7	200	0.27	0.06	7.64	0.14	8.52	35.5	256	1.47	93.5	5.58
R3835		2.00	0.08	8.42	12.5	180	0.22	0.06	7.79	0.10	9.10	35.8	288	0.78	96.3	6.13
R3836		2.08	0.07	8.64	28.2	180	0.29	0.06	7.68	0.11	10.30	37.1	233	0.91	85.3	6.50
R3837		2.05	0.11	8.14	42.2	170	0.29	0.06	7.88	0.13	9.36	37.6	259	1.14	94.8	6.30
R3838		2.00	0.27	7.36	92.8	140	0.27	0.06	8.20	0.17	8.82	40.2	232	1.49	95.2	6.80
R3839		0.38	0.95	6.31	227	70	0.92	0.58	8.49	0.27	17.25	92.5	211	1.77	244	6.48
R3840		0.56	0.93	6.33	286	70	0.79	0.63	8.40	0.17	17.45	117.5	215	1.72	220	6.46
R3841		0.12	3.99	5.40	13.5	110	0.47	0.77	3.44	1.91	16.15	967	270	0.66	>10000	17.85
R3842		1.86	1.06	7.66	82.9	160	0.26	0.06	7.08	0.34	8.58	46.2	282	0.86	103.5	7.26
R3843		1.76	4.25	7.63	110.0	160	0.43	0.07	6.49	0.12	16.05	49.3	118	0.98	131.5	8.70
R3844		0.91	4.22	7.02	105.0	140	0.44	0.07	6.03	0.08	17.60	48.2	20	0.81	142.5	8.39
R3845		0.98	8.43	6.90	87.5	100	0.48	0.07	5.37	0.08	22.6	42.8	17	0.75	138.5	8.25
R3846		1.16	1.28	7.08	110.0	170	0.22	0.05	6.83	0.07	9.96	45.1	245	0.82	114.0	6.65
R3847		0.79	>100	6.76	4420	110	0.58	15.85	9.15	0.04	42.3	1775	253	1.12	185.0	5.56
R3848		1.27	9.25	7.12	108.5	140	0.23	0.08	7.27	0.08	8.54	50.1	340	0.78	96.0	6.27
R3849		2.07	17.25	7.42	83.3	130	0.16	0.07	7.32	0.10	8.23	44.5	279	0.65	83.9	5.85
R3850		0.89	1.53	7.40	104.0	160	0.19	0.05	7.37	0.07	8.82	45.8	295	0.86	90.1	5.95
R3851		0.96	1.85	7.07	114.5	90	1.38	0.26	7.98	0.03	24.6	45.6	282	1.42	226	5.76
R3852		0.94	13.45	6.92	2830	60	1.15	140.5	6.55	0.06	31.7	336	357	2.20	105.5	7.04
R3853		0.86	3.37	7.35	305	130	0.66	0.54	7.03	0.31	11.70	67.4	356	1.66	90.8	6.06
R3854		0.97	0.25	7.42	13.9	150	1.06	0.39	8.33	0.10	14.55	38.4	344	2.22	83.5	5.20



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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
R3816		17.80	0.15	1.4	0.123	0.63	21.6	39.4	3.45	1130	6.99	2.63	2.4	100.0	270	287
R3817		15.15	0.10	1.0	0.047	1.66	4.3	57.0	4.95	1160	0.32	1.59	1.7	131.5	180	8.8
R3818		12.70	0.09	1.3	0.078	1.15	5.5	54.9	6.01	1520	0.53	1.66	2.0	181.5	210	19.5
R3819		7.98	0.09	0.5	0.138	0.12	5.7	112.0	2.45	1020	16.60	1.14	0.8	177.0	100	18.3
R3820		6.76	0.07	0.4	0.152	0.08	6.3	107.5	2.68	1180	13.60	1.19	0.6	165.0	70	19.2
R3821		19.55	0.12	3.2	0.060	0.69	17.2	7.9	3.87	996	2.99	2.26	21.7	>10000	1490	20.0
R3822		15.80	0.09	1.6	0.094	0.87	6.0	80.3	2.68	1090	10.50	2.93	2.7	332	290	15.9
R3823		16.00	0.09	1.1	0.080	1.45	3.6	77.0	2.62	1000	5.40	3.01	1.8	171.0	190	13.9
R3824		7.19	0.10	0.4	0.192	0.22	11.1	86.4	1.88	1870	11.90	0.83	0.5	84.9	70	11.3
R3825		0.28	0.07	<0.1	0.006	0.01	1.3	2.0	1.76	137	0.14	0.03	0.1	7.2	70	0.9
R3826		4.34	0.15	0.2	0.493	0.07	22.2	44.1	1.15	3020	10.70	0.71	0.3	42.7	50	12.7
R3827		3.28	0.13	0.2	0.331	0.13	21.6	51.3	0.91	3060	4.18	0.50	0.3	31.5	30	3.7
R3828		15.15	0.08	1.4	0.108	0.82	7.7	81.3	3.12	1400	1.29	3.04	2.4	131.5	260	5.6
R3829		11.85	0.06	0.7	0.104	0.50	4.0	106.5	3.78	964	0.95	2.37	1.2	109.0	130	4.8
R3830		13.80	0.07	0.9	0.055	1.73	6.1	73.5	3.35	1580	0.30	1.60	1.6	141.0	170	6.3
R3831		12.00	0.09	0.8	0.086	1.29	7.7	80.2	2.84	1560	0.31	2.13	1.2	169.5	120	31.2
R3832		11.30	0.08	0.5	0.164	0.52	6.0	92.9	3.18	1220	7.63	2.39	0.8	158.5	90	11.8
R3833		13.85	0.10	0.8	0.044	2.18	5.0	45.7	4.55	1150	0.33	1.66	1.4	141.5	150	7.6
R3834		13.35	0.11	0.8	0.034	2.32	4.0	41.2	5.22	1270	0.40	1.16	1.3	148.5	140	8.7
R3835		13.15	0.09	0.9	0.035	2.05	4.3	35.4	5.48	1280	0.26	1.16	1.4	146.0	160	3.0
R3836		14.80	0.10	1.1	0.045	2.08	5.2	36.3	5.01	1280	0.33	1.38	1.8	129.5	210	3.4
R3837		13.75	0.10	1.0	0.042	2.06	4.7	38.7	5.24	1290	0.25	1.43	1.7	149.5	190	6.9
R3838		13.00	0.08	0.9	0.039	1.54	4.4	41.1	5.35	1300	0.24	1.45	1.5	149.0	160	15.1
R3839		13.30	0.06	0.8	0.074	0.69	8.3	47.2	4.42	1220	1.99	2.05	1.3	134.0	130	97.0
R3840		12.90	0.05	0.8	0.075	0.69	8.6	44.5	4.48	1300	4.41	1.94	1.1	132.0	120	82.3
R3841		11.25	0.18	1.2	0.116	0.31	6.7	8.0	3.90	984	4.93	1.17	4.7	>10000	440	13.2
R3842		13.85	0.09	1.0	0.049	1.87	3.9	30.9	5.53	1470	0.32	1.41	1.5	148.5	180	44.4
R3843		16.75	0.10	1.5	0.068	1.69	7.2	26.5	4.11	1590	0.82	1.94	2.5	84.8	270	9.2
R3844		16.85	0.05	1.7	0.071	1.44	8.0	23.0	3.29	1590	0.49	2.15	2.8	63.0	300	7.7
R3845		17.10	0.06	2.6	0.066	1.13	10.7	19.2	2.74	1380	0.95	2.46	4.0	50.1	480	20.5
R3846		13.35	0.05	1.0	0.048	1.74	4.3	27.6	4.93	1330	0.25	1.22	1.5	143.5	170	7.6
R3847		12.45	0.09	1.0	0.163	1.48	18.2	31.7	4.53	1920	0.42	1.43	1.2	401	130	15.7
R3848		12.55	0.05	0.9	0.043	1.48	3.8	27.6	5.93	1300	0.23	1.05	1.3	174.5	150	6.8
R3849		13.00	0.05	0.8	0.039	1.40	3.6	26.3	5.11	1140	0.25	1.14	1.3	150.0	150	4.3
R3850		13.25	0.05	0.9	0.039	1.60	3.9	31.7	5.27	1260	0.24	1.19	1.3	162.5	140	7.5
R3851		14.75	0.08	0.8	0.087	1.19	10.9	49.2	4.46	1400	0.48	1.95	1.2	146.0	130	214
R3852		14.25	0.09	0.8	0.133	0.66	12.8	70.6	5.53	1200	14.85	2.21	1.3	174.0	140	94.1
R3853		12.50	0.05	0.9	0.073	1.37	5.2	35.2	5.73	1370	0.54	1.55	1.3	179.5	140	110.5
R3854		12.10	0.05	0.6	0.095	1.69	6.6	43.1	5.44	1360	0.24	1.42	0.9	175.0	110	36.1



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		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
R3816		30.5	0.006	0.13	2.64	35.3	<1	0.6	86.0	0.17	<0.05	1.94	0.382	0.13	1.2	193
R3817		62.4	0.003	0.06	0.52	35.5	<1	0.5	125.5	0.12	<0.05	1.20	0.298	0.37	0.3	202
R3818		50.1	0.003	0.07	0.62	43.1	<1	0.5	87.1	0.14	0.08	1.73	0.343	0.25	0.6	238
R3819		6.8	0.003	0.10	1.43	11.8	1	0.2	26.1	0.05	<0.05	0.62	0.130	0.06	0.3	91
R3820		4.7	0.003	0.09	1.44	15.3	<1	0.2	25.6	<0.05	<0.05	0.48	0.110	0.04	0.2	94
R3821		20.7	0.002	2.67	1.95	18.8	1	1.4	404	1.23	<0.05	2.90	1.045	0.09	0.6	150
R3822		42.2	0.004	0.15	1.16	37.3	1	0.6	80.9	0.19	0.07	2.19	0.419	0.22	0.7	257
R3823		36.4	0.004	0.07	0.79	32.0	<1	0.5	99.1	0.13	0.06	1.01	0.311	0.30	0.4	219
R3824		11.3	0.003	0.03	0.79	17.2	<1	0.2	49.8	<0.05	<0.05	0.48	0.098	0.07	0.2	81
R3825		0.4	0.002	<0.01	0.12	0.4	1	<0.2	80.6	<0.05	<0.05	0.07	0.006	<0.02	0.1	3
R3826		4.2	0.003	0.01	0.51	16.7	1	<0.2	68.9	<0.05	<0.05	0.31	0.054	0.04	0.1	51
R3827		7.0	0.002	0.01	0.43	15.9	1	<0.2	67.8	<0.05	<0.05	0.22	0.048	0.04	0.1	41
R3828		39.5	0.005	0.07	0.41	41.2	<1	0.5	101.5	0.16	0.05	1.96	0.384	0.17	0.6	238
R3829		23.7	0.002	0.05	0.54	26.1	<1	0.3	51.0	0.08	<0.05	1.03	0.191	0.12	0.3	142
R3830		79.9	0.004	0.06	0.93	34.7	<1	0.4	119.0	0.11	<0.05	1.23	0.277	0.40	0.3	188
R3831		59.8	0.003	0.05	0.97	34.0	<1	0.4	96.9	0.09	0.05	0.95	0.206	0.28	0.3	160
R3832		25.6	0.003	0.05	0.79	22.3	<1	0.3	44.0	0.06	0.05	0.68	0.147	0.12	0.3	127
R3833		85.7	0.003	0.05	0.61	32.2	<1	0.4	107.5	0.10	<0.05	1.16	0.245	0.41	0.3	169
R3834		90.7	0.003	0.05	0.49	32.9	<1	0.4	101.0	0.09	<0.05	1.02	0.226	0.44	0.3	166
R3835		84.1	0.004	0.06	0.66	35.0	<1	0.4	101.5	0.10	<0.05	1.17	0.254	0.40	0.3	180
R3836		87.3	0.003	0.06	1.23	35.0	<1	0.5	114.5	0.14	<0.05	1.46	0.315	0.39	0.4	202
R3837		82.2	0.003	0.06	2.74	35.2	<1	0.5	104.5	0.12	<0.05	1.29	0.282	0.36	0.4	194
R3838		60.7	0.003	0.06	6.64	36.0	<1	0.4	97.6	0.11	<0.05	1.15	0.271	0.29	0.3	194
R3839		38.1	0.002	0.08	11.95	37.1	1	0.5	85.3	0.10	<0.05	0.91	0.246	0.13	0.6	188
R3840		34.9	0.004	0.08	9.21	33.2	1	0.5	76.6	0.09	<0.05	0.86	0.241	0.15	0.7	185
R3841		10.3	0.050	8.01	3.44	7.9	22	2.3	182.0	0.31	4.74	1.01	0.514	0.15	0.3	77
R3842		78.8	<0.002	0.07	9.76	40.0	1	0.4	105.5	0.11	<0.05	1.10	0.289	0.33	0.4	206
R3843		74.4	<0.002	0.09	16.50	42.4	1	0.6	134.5	0.18	<0.05	1.76	0.412	0.36	0.6	255
R3844		54.1	<0.002	0.09	16.20	40.9	1	0.6	138.5	0.20	<0.05	1.87	0.464	0.28	0.6	275
R3845		53.6	0.002	0.12	13.25	36.5	1	0.8	112.5	0.30	<0.05	2.94	0.521	0.20	1.2	230
R3846		72.6	<0.002	0.05	13.80	31.0	1	0.4	110.5	0.11	<0.05	1.03	0.269	0.30	0.3	193
R3847		72.0	0.002	0.07	101.0	34.9	1	0.4	93.5	0.10	<0.05	1.04	0.222	0.22	0.5	160
R3848		66.1	<0.002	0.04	8.46	36.6	1	0.4	105.5	0.09	<0.05	0.86	0.242	0.27	0.3	181
R3849		54.4	<0.002	0.05	6.55	33.1	1	0.4	111.5	0.10	<0.05	0.87	0.232	0.26	0.3	172
R3850		65.4	<0.002	0.05	15.50	37.3	1	0.3	109.0	0.10	<0.05	0.92	0.232	0.29	0.3	178
R3851		56.9	<0.002	0.05	10.95	34.2	<1	0.4	86.0	0.09	<0.05	0.86	0.210	0.19	0.7	164
R3852		24.9	<0.002	0.03	6.51	32.7	<1	0.4	56.8	0.10	<0.05	0.84	0.225	0.12	0.5	172
R3853		66.2	<0.002	0.07	3.88	35.7	<1	1.3	99.7	0.09	<0.05	0.88	0.230	0.23	0.3	169
R3854		90.9	<0.002	0.03	0.66	33.4	1	0.3	87.7	0.07	<0.05	0.65	0.176	0.25	0.2	149



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 Account: BMRPLLW

Project: Gowganda East-GE21-001

CERTIFICATE OF ANALYSIS SD21186456

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Co-OG62	Cu-OG62	Ni-OG62	Ag-GRA21	Au-ICP21	Au-GRA21	CRU-QC	PUL-QC
		W	Y	Zn	Zr	Ag	Co	Cu	Ni	Ag	Au	Au	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	ppm	%	%
		0.1	0.1	2	0.5	1	0.0005	0.001	0.001	5	0.001	0.05	0.01	0.01
R3816		0.4	69.8	72	58.7						0.006			
R3817		0.2	11.7	56	38.3						0.006			
R3818		0.2	12.8	60	53.3						0.010			
R3819		0.1	16.8	37	19.6						0.008			92.6
R3820		0.1	18.6	40	14.5						0.009			88.1
R3821		1.9	20.6	128	142.0		NSS		NSS		NSS			
R3822		0.5	13.0	42	62.4						0.015		77.9	
R3823		0.4	8.4	48	42.7						0.012			
R3824		0.1	32.8	29	14.4						0.004			
R3825		<0.1	2.4	5	1.5						0.002			
R3826		0.1	85.0	18	9.1						0.003			
R3827		0.1	82.4	14	7.1						0.005			
R3828		0.4	16.0	51	56.5						0.013			
R3829		0.2	9.0	53	29.9						0.011			
R3830		0.2	11.4	44	37.8						0.014			
R3831		0.2	10.1	41	28.9						0.027			
R3832		0.2	15.7	45	20.5						0.024			
R3833		0.2	10.0	57	33.4						0.020			
R3834		0.2	10.0	70	31.4						0.017			
R3835		0.2	10.8	69	35.6						0.012			
R3836		0.3	12.4	77	45.1						0.006			
R3837		0.2	11.7	77	40.1						0.012			
R3838		0.2	11.1	90	36.9						0.009			
R3839		0.2	16.6	152	30.5						0.007			
R3840		0.2	17.0	114	28.7						0.006			
R3841		2.3	10.0	135	49.4			1.640	4.72		0.218			
R3842		0.2	12.7	171	39.5						0.008			
R3843		0.3	17.8	89	57.0						0.004			
R3844		0.4	20.3	68	65.5						0.001			
R3845		0.3	25.7	69	94.9						0.003			
R3846		0.2	13.0	70	37.2						0.009			
R3847		0.2	37.7	56	38.7	>1500				>10000		<0.05		
R3848		0.2	11.3	71	32.1						0.006			
R3849		0.2	10.7	68	32.4						0.006			
R3850		0.2	11.1	62	33.1						0.005			
R3851		0.2	24.2	54	32.3						0.005			
R3852		0.3	24.6	153	31.4						0.009			
R3853		0.3	11.2	176	31.9						0.003			
R3854		0.2	11.3	70	23.4						0.005			



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Project: Gowganda East-GE21-001

CERTIFICATE OF ANALYSIS SD21186456

	CERTIFICATE COMMENTS												
	ANALYTICAL COMMENTS												
Applies to Method:	NSS is non-sufficient sample. ALL METHODS												
Applies to Method:	REEs 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. <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%;">LOG-22</td> <td style="width: 33%;">LOG-24</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	LOG-24	PUL-31	PUL-QC	SPL-21	WEI-21				
CRU-31	CRU-QC	LOG-22	LOG-24										
PUL-31	PUL-QC	SPL-21	WEI-21										
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Ag-GRA21</td> <td style="width: 33%;">Ag-OG62</td> <td style="width: 33%;">Au-GRA21</td> <td style="width: 33%;">Au-ICP21</td> </tr> <tr> <td>Co-OG62</td> <td>Cu-OG62</td> <td>ME-MS61</td> <td>ME-OG62</td> </tr> <tr> <td>Ni-OG62</td> <td></td> <td></td> <td></td> </tr> </table>	Ag-GRA21	Ag-OG62	Au-GRA21	Au-ICP21	Co-OG62	Cu-OG62	ME-MS61	ME-OG62	Ni-OG62			
Ag-GRA21	Ag-OG62	Au-GRA21	Au-ICP21										
Co-OG62	Cu-OG62	ME-MS61	ME-OG62										
Ni-OG62													



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CERTIFICATE SD21207348

Project: Gowganda Transition-GE21-001W1

This report is for 60 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 9-AUG-2021.

The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
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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
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	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
Aq-OG62	Ore Grade Ag – Four Acid	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Co-OG62	Ore Grade Co – Four Acid	
Cu-OG62	Ore Grade Cu – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	
Au-ICP21	Au 30g FA ICP-AES Finish	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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Project: Gowganda Transition–GE21–001W1

CERTIFICATE OF ANALYSIS SD21207348

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 %
R3933		1.06	0.06	7.67	4.5	80	0.22	0.04	6.74	0.05	7.80	40.9	63	0.13	125.0	6.96
R3934		1.30	0.24	6.14	2.8	60	1.59	0.05	10.45	<0.02	111.5	33.2	335	1.35	293	7.73
R3935		1.03	0.13	8.35	9.0	140	0.36	0.28	7.31	0.04	18.10	34.7	45	0.32	19.1	7.69
R3936		0.99	0.24	3.98	25.2	10	2.20	0.72	4.18	0.02	6.74	26.5	34	1.36	89.6	6.21
R3937		1.62	0.20	7.55	2.2	240	1.08	0.37	1.74	<0.02	21.0	29.5	96	3.32	44.9	5.95
R3938		1.80	0.09	1.93	1.4	250	0.37	0.05	0.78	0.03	9.57	12.1	79	3.08	18.6	2.31
R3939		0.79	1.12	2.27	3.3	140	0.87	0.47	2.02	0.07	24.2	18.8	227	2.82	36.0	3.80
R3940		0.92	0.25	2.77	3.7	160	1.08	0.54	2.17	0.08	16.35	22.0	246	4.62	31.2	4.14
R3941		0.12	4.08	5.49	13.8	120	0.51	0.88	3.51	2.01	16.80	986	277	0.78	>10000	18.15
R3942		1.60	0.73	2.50	4.5	90	0.61	1.28	1.43	0.03	7.83	22.9	79	1.02	95.2	4.67
R3943		1.33	0.65	6.53	4.7	50	4.31	0.19	1.81	<0.02	54.6	25.9	239	1.75	657	5.34
R3944		1.54	5.32	8.04	93.8	410	0.86	0.22	0.42	9.37	40.9	60.4	24	0.33	1185	2.20
R3945		2.02	5.52	7.81	146.5	200	1.15	0.16	0.44	18.50	38.5	60.5	91	1.18	913	2.86
R3946		1.94	1.35	7.72	76.8	210	0.76	0.17	0.72	10.40	46.4	29.4	52	1.13	211	2.05
R3947		1.75	0.76	7.81	45.3	390	0.78	0.19	6.13	2.31	32.6	59.0	110	2.57	400	7.26
R3948		1.59	0.73	7.94	647	250	0.33	0.38	7.21	0.14	11.95	46.4	151	0.87	133.5	7.27
R3949		0.98	31.2	7.54	2960	190	0.59	138.0	7.90	0.05	43.3	491	108	1.35	431	6.74
R3950		2.06	0.45	7.77	447	210	0.33	0.27	7.44	0.28	10.15	43.5	161	1.06	104.0	6.35
R3951		1.73	0.50	8.31	296	200	0.45	0.63	7.46	0.61	16.60	41.6	98	0.68	108.5	6.85
R3952		2.13	2.63	8.32	226	210	0.31	0.12	7.96	0.13	10.45	43.1	231	0.83	100.5	6.11
R3953		1.84	>100	7.52	482	190	0.41	0.68	10.60	0.14	35.9	39.6	172	0.79	288	6.12
R3954		0.50	0.35	0.08	2.0	20	<0.05	0.01	31.9	<0.02	0.86	0.7	2	<0.05	2.6	0.11
R3955		0.96	>100	8.46	194.5	280	0.33	0.19	7.55	0.16	10.45	41.9	187	0.78	210	6.15
R3956		0.72	1.01	0.09	1.2	20	<0.05	0.04	31.4	<0.02	1.09	1.1	2	0.05	2.4	0.12
R3957		1.14	>100	8.01	524	270	0.37	0.16	7.27	0.32	11.45	44.5	239	0.90	156.0	6.57
R3958		0.70	1.09	0.09	1.8	20	0.06	0.01	32.3	<0.02	1.11	0.7	1	<0.05	1.3	0.11
R3959		1.03	88.4	8.38	371	250	0.40	0.08	7.53	0.26	12.35	44.7	168	0.80	108.5	7.21
R3960		1.17	>100	8.32	351	250	0.36	0.08	7.36	0.30	12.00	43.8	170	0.77	115.5	6.96
R3961		<0.02	0.85	6.90	2.5	240	1.05	0.06	5.51	0.78	36.6	>10000	165	0.70	1865	6.98
R3962		2.04	62.4	8.18	355	270	0.43	0.11	6.98	0.72	14.50	58.6	101	1.01	142.0	7.54
R3963		2.07	1.25	7.87	455	260	0.46	0.10	7.16	0.31	16.45	48.9	101	0.95	143.0	7.96
R3964		1.50	0.78	8.01	270	280	0.48	0.17	6.45	0.51	16.20	46.8	80	0.79	126.5	8.04
R3965		1.47	0.99	7.89	248	240	0.42	0.14	6.78	0.10	14.45	48.6	46	0.81	169.0	8.18
R3966		0.92	1.49	6.95	348	170	0.63	2.87	8.28	0.42	38.6	98.9	18	0.84	209	7.80
R3967		1.87	1.76	7.45	134.5	210	0.56	0.09	6.23	0.18	15.50	50.7	46	1.18	182.0	8.24
R3968		1.95	0.47	7.80	147.5	240	0.42	0.08	6.96	0.14	14.25	52.6	53	1.12	166.0	8.00
R3969		2.12	0.32	7.87	119.5	260	0.38	0.07	7.04	0.10	12.25	47.8	60	1.26	148.0	7.69
R3970		2.10	0.31	7.70	128.0	250	0.79	0.08	7.08	0.49	12.95	48.4	51	1.34	169.0	7.45
R3971		1.54	0.28	6.44	145.0	70	1.22	0.16	3.55	0.02	12.45	46.2	55	4.38	293	7.51
R3972		1.66	0.19	7.90	83.0	230	0.66	0.10	7.24	0.20	14.05	50.5	51	1.39	176.0	7.60



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To: NORTH AMERICAN COBALT – BATTERY
 MINERALS RESOURCES
 THE PACIFIC BUILDING
 SUITE 400, 744 WEST HASTINGS STREET
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CERTIFICATE OF ANALYSIS SD21207348

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
R3933		15.75	0.06	0.8	0.043	0.26	3.0	28.0	4.41	1200	0.56	2.76	1.5	77.0	230	7.2
R3934		14.75	0.15	1.2	0.113	0.15	55.1	35.1	4.45	1340	0.43	2.34	5.7	142.5	850	4.0
R3935		21.4	0.09	0.9	0.089	0.49	7.5	26.8	3.94	1340	0.83	2.90	2.2	71.9	370	16.3
R3936		10.75	0.10	0.7	0.104	0.07	2.4	75.6	3.38	875	2.09	1.11	1.3	35.7	220	28.8
R3937		18.60	0.08	1.9	0.093	1.11	8.8	32.9	3.26	828	6.04	4.60	4.5	47.5	410	87.1
R3938		5.43	<0.05	0.3	0.021	0.66	4.5	18.3	1.55	346	5.28	0.76	1.0	19.3	80	80.5
R3939		6.18	0.06	0.7	0.059	0.59	11.5	27.2	3.59	594	26.1	0.79	2.8	127.5	440	50.8
R3940		8.02	0.07	0.6	0.054	0.85	7.6	27.7	4.03	615	19.35	1.14	2.7	129.5	260	49.0
R3941		12.55	0.23	1.3	0.121	0.32	7.7	9.3	3.96	1000	5.38	1.19	5.3	>10000	450	13.8
R3942		6.93	0.11	0.4	0.261	0.34	3.6	22.8	2.21	747	8.34	0.84	0.9	26.1	140	95.0
R3943		24.5	0.12	3.6	0.083	0.13	22.9	72.8	3.53	566	2.61	3.38	5.4	83.8	950	4.9
R3944		18.65	0.07	4.2	0.052	1.15	20.8	25.0	0.91	296	4.26	5.68	6.2	42.0	670	933
R3945		20.9	0.08	3.7	0.048	0.50	17.0	61.6	1.81	509	5.08	5.25	4.5	64.8	580	1860
R3946		19.45	0.09	3.4	0.023	0.48	17.9	49.1	1.35	474	6.26	5.43	5.1	44.5	890	875
R3947		22.5	0.10	2.0	0.067	1.33	16.4	33.5	3.96	1440	2.46	2.64	2.7	91.2	370	258
R3948		16.80	0.08	1.2	0.053	1.85	5.4	37.7	4.59	1600	0.35	1.74	2.0	117.0	210	52.0
R3949		15.75	0.11	1.1	0.136	1.47	15.7	49.9	4.30	1560	17.80	1.90	1.8	120.5	190	384
R3950		14.40	0.06	1.1	0.042	1.60	4.5	35.0	4.70	1380	0.39	1.34	1.7	130.0	190	33.7
R3951		17.05	0.07	1.9	0.050	1.64	7.8	34.5	3.77	1320	0.54	1.78	2.7	95.3	320	35.3
R3952		14.50	0.07	1.0	0.042	1.61	4.7	37.1	5.04	1340	0.26	1.23	1.5	138.0	180	16.4
R3953		14.80	0.08	1.0	0.077	1.37	15.0	46.0	4.44	1520	0.64	1.68	1.5	117.5	170	49.4
R3954		0.27	0.10	<0.1	<0.005	0.02	1.1	1.1	1.67	111	0.13	0.03	0.1	1.3	80	1.2
R3955		16.15	0.06	1.1	0.050	1.80	4.6	41.5	4.26	1400	0.26	1.53	1.7	122.5	200	33.3
R3956		0.29	0.09	<0.1	<0.005	0.02	1.4	0.2	2.38	116	0.05	0.03	0.1	1.4	80	0.7
R3957		16.10	0.07	1.2	0.052	1.75	5.0	41.9	4.35	1610	0.24	1.53	1.8	125.5	200	40.6
R3958		0.27	<0.05	<0.1	<0.005	0.02	1.5	0.2	1.40	116	0.05	0.04	0.1	0.7	70	0.9
R3959		16.25	0.05	1.4	0.052	1.70	5.6	33.7	4.32	1480	0.34	1.55	2.1	111.0	230	36.6
R3960		16.15	0.07	1.3	0.051	1.72	5.4	34.4	4.26	1460	0.30	1.51	2.0	113.5	220	39.7
R3961		18.65	0.14	3.3	0.056	0.65	19.1	6.6	3.57	929	2.51	2.12	21.1	>10000	1370	18.3
R3962		16.25	0.06	1.6	0.055	1.79	6.6	34.3	4.27	1680	0.34	1.77	2.3	130.0	260	44.2
R3963		16.25	0.06	1.7	0.058	1.64	7.7	34.3	4.15	1630	0.41	1.78	2.6	106.0	290	24.4
R3964		17.50	0.07	1.8	0.060	1.73	7.9	40.6	3.93	1730	0.36	2.11	2.7	101.0	300	55.6
R3965		16.55	0.07	1.5	0.057	1.64	6.8	35.8	4.22	1680	0.32	1.79	2.4	103.0	270	24.5
R3966		18.40	0.09	2.0	0.078	1.15	17.5	33.8	3.58	1500	1.13	1.88	3.0	87.6	350	35.0
R3967		16.85	0.07	1.6	0.061	1.38	7.2	48.8	4.55	1680	0.37	1.79	2.4	104.5	270	33.9
R3968		16.50	0.06	1.5	0.059	1.42	6.7	42.2	4.41	1720	0.33	1.72	2.2	109.5	250	34.7
R3969		15.85	0.06	1.4	0.048	1.64	5.5	32.7	4.49	1520	0.36	1.55	2.1	113.0	230	10.2
R3970		15.80	0.06	1.3	0.054	1.52	6.0	39.3	4.43	1450	0.31	1.61	2.0	118.5	220	27.4
R3971		13.80	<0.05	1.1	0.084	0.45	5.8	137.5	5.38	1030	0.64	1.74	1.6	106.0	180	18.8
R3972		16.50	0.07	1.5	0.059	1.70	6.8	34.8	4.52	1570	0.37	1.58	2.1	125.0	250	6.8



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CERTIFICATE OF ANALYSIS SD21207348

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
R3933		5.8	<0.002	0.26	0.12	31.3	1	0.3	129.5	0.09	<0.05	0.39	0.351	0.03	0.1	189
R3934		6.3	<0.002	0.04	0.56	26.0	1	1.5	248	0.23	<0.05	1.02	0.297	0.03	0.6	159
R3935		12.4	0.002	0.05	0.30	31.3	<1	0.7	188.5	0.12	<0.05	1.38	0.442	0.05	0.2	219
R3936		3.6	0.004	0.13	0.31	17.8	<1	0.3	24.1	0.08	<0.05	0.33	0.302	0.03	0.1	143
R3937		28.4	0.002	0.01	0.32	13.7	<1	1.9	129.0	0.33	<0.05	1.24	0.309	0.33	0.5	114
R3938		30.8	0.002	0.01	0.15	7.0	<1	0.4	25.2	<0.05	<0.05	0.56	0.112	0.25	0.6	47
R3939		32.9	0.007	0.01	0.58	9.5	<1	0.4	57.2	0.10	<0.05	0.88	0.142	0.22	0.2	68
R3940		47.6	0.004	0.01	0.72	12.4	<1	0.4	75.8	0.10	<0.05	0.76	0.178	0.33	0.4	85
R3941		11.7	0.046	8.18	2.87	8.6	22	2.5	182.0	0.31	4.27	1.06	0.516	0.17	0.3	77
R3942		14.2	0.005	0.02	0.31	10.8	<1	0.6	29.9	<0.05	<0.05	0.54	0.129	0.11	0.1	64
R3943		2.9	0.004	0.10	0.50	15.0	<1	0.9	57.8	0.35	0.05	3.77	0.299	0.04	1.6	98
R3944		21.2	0.003	0.89	4.96	9.8	1	0.3	77.7	0.49	0.11	3.47	0.269	0.12	1.1	55
R3945		12.0	0.006	0.65	3.55	14.7	1	0.2	91.5	0.35	0.20	3.23	0.271	0.07	1.2	91
R3946		13.6	0.004	0.23	1.50	10.2	1	0.2	73.4	0.37	0.10	3.50	0.252	0.07	1.7	69
R3947		47.0	<0.002	0.30	2.80	30.9	1	1.2	190.0	0.17	0.05	1.90	0.368	0.35	0.8	196
R3948		75.5	<0.002	0.07	7.98	37.1	1	0.5	137.5	0.14	<0.05	1.33	0.328	0.39	0.4	212
R3949		76.5	0.002	0.14	11.90	33.3	1	0.4	113.0	0.13	0.07	1.25	0.274	0.34	0.7	175
R3950		66.0	0.002	0.05	8.51	37.6	<1	0.4	129.5	0.12	<0.05	1.11	0.279	0.36	0.4	190
R3951		69.5	0.002	0.07	5.92	35.8	1	0.6	143.5	0.20	<0.05	1.92	0.408	0.37	0.6	219
R3952		76.1	<0.002	0.06	6.21	39.6	1	0.4	142.5	0.10	<0.05	1.11	0.277	0.39	0.3	188
R3953		67.2	<0.002	0.06	9.80	43.3	1	0.5	128.5	0.11	<0.05	1.03	0.269	0.34	0.4	186
R3954		0.5	<0.002	<0.01	0.18	0.4	<1	<0.2	77.8	<0.05	<0.05	0.06	0.005	<0.02	0.1	2
R3955		72.2	0.002	0.06	12.35	38.0	1	0.5	152.0	0.12	<0.05	1.13	0.295	0.44	0.4	198
R3956		0.8	<0.002	<0.01	0.08	0.4	<1	<0.2	75.4	<0.05	<0.05	0.07	0.006	<0.02	0.1	2
R3957		69.1	<0.002	0.05	18.35	38.9	1	0.5	151.0	0.13	<0.05	1.18	0.318	0.46	0.4	210
R3958		0.6	<0.002	<0.01	0.08	0.4	1	<0.2	75.1	<0.05	<0.05	0.06	0.005	<0.02	0.1	2
R3959		76.1	0.002	0.07	9.31	39.0	1	0.6	158.0	0.14	<0.05	1.37	0.363	0.41	0.4	225
R3960		71.8	<0.002	0.07	9.23	39.1	1	0.5	159.0	0.14	<0.05	1.42	0.356	0.42	0.5	219
R3961		19.6	<0.002	2.53	1.73	18.9	1	1.5	396	1.17	<0.05	2.59	0.969	0.09	0.6	140
R3962		82.8	0.002	0.08	12.20	40.4	1	0.6	164.0	0.16	<0.05	1.66	0.379	0.46	0.6	229
R3963		79.0	0.002	0.07	9.71	40.6	1	0.7	153.5	0.18	<0.05	1.84	0.415	0.40	0.6	239
R3964		63.7	0.002	0.10	11.20	39.8	<1	0.7	168.0	0.20	<0.05	1.79	0.438	0.43	0.6	249
R3965		77.3	<0.002	0.09	6.74	43.7	1	0.6	165.0	0.16	0.05	1.61	0.400	0.39	0.5	252
R3966		57.6	0.002	0.10	5.76	43.3	1	0.7	139.0	0.22	<0.05	2.26	0.436	0.26	0.8	244
R3967		61.7	0.002	0.09	3.97	43.8	1	0.7	145.0	0.17	<0.05	1.63	0.420	0.34	0.5	257
R3968		69.7	0.002	0.09	4.05	44.4	1	0.6	162.0	0.16	<0.05	1.63	0.391	0.35	0.5	250
R3969		79.1	<0.002	0.08	4.02	41.7	1	0.6	165.0	0.15	<0.05	1.38	0.381	0.40	0.4	241
R3970		66.0	0.002	0.08	2.85	41.5	1	0.5	157.5	0.15	<0.05	1.38	0.349	0.36	0.4	227
R3971		26.3	<0.002	0.07	0.48	35.5	1	0.5	71.0	0.11	<0.05	1.14	0.268	0.14	0.4	182
R3972		78.8	<0.002	0.09	1.11	43.6	1	0.7	163.5	0.15	<0.05	1.56	0.363	0.39	0.5	232



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CERTIFICATE OF ANALYSIS SD21207348

Sample Description	Method Analyte Units LOD	ME–MS61	ME–MS61	ME–MS61	ME–MS61	Ag–OG62	Co–OG62	Cu–OG62	Ni–OG62	Au–ICP21	CRU–QC	PUL–QC
		W	Y	Zn	Zr	Ag	Co	Cu	Ni	Au	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	%	%
		0.1	0.1	2	0.5	1	0.0005	0.001	0.001	0.001	0.01	0.01
R3933		0.4	13.1	86	27.5					<0.001	74.9	92.6
R3934		2.5	34.2	73	42.8					<0.001		90.7
R3935		0.3	18.7	79	31.4					<0.001		
R3936		0.5	19.8	106	24.2					0.001		
R3937		1.5	11.0	109	73.9					0.001		
R3938		0.4	5.0	68	12.9					<0.001		
R3939		1.5	6.7	112	24.9					<0.001		
R3940		0.6	7.9	124	24.4					0.002		
R3941		2.4	9.7	139	49.7			1.645	4.69	0.226		
R3942		0.6	5.1	78	13.9					0.005		
R3943		0.3	22.8	62	145.0					0.009		
R3944		0.5	10.8	2680	167.5					0.029		
R3945		0.4	11.9	5360	144.5					0.005		
R3946		0.4	11.5	3650	137.5					0.001		
R3947		0.4	15.1	934	71.9					0.007		
R3948		0.3	13.9	97	44.0					0.004		
R3949		0.3	29.3	81	40.9					0.008		
R3950		0.2	12.1	131	38.3					0.003		
R3951		0.3	17.8	231	66.1					0.003		
R3952		0.3	12.2	77	37.2					0.004		
R3953		0.2	59.2	95	36.2	401				0.004		
R3954		<0.1	2.0	5	1.5					0.001		
R3955		0.2	13.3	101	42.4	390				0.004		
R3956		<0.1	2.2	4	1.4					<0.001		
R3957		0.3	13.9	145	45.2	550				0.005		
R3958		<0.1	2.1	5	1.5					0.001		
R3959		0.3	15.3	122	49.3					0.002		
R3960		0.3	15.1	126	48.6	176				0.003		
R3961		1.7	19.6	119	132.0		NSS		NSS	NSS		
R3962		0.3	16.7	258	56.2					<0.001		
R3963		0.4	18.5	148	62.0					0.004		
R3964		0.4	18.1	203	62.8					0.002		
R3965		0.3	17.2	94	53.3					0.002		
R3966		0.4	58.8	171	73.8					0.114		
R3967		0.4	17.9	125	54.7					0.002		
R3968		0.3	16.5	108	53.5					0.001		
R3969		0.3	15.4	87	48.7					0.001		
R3970		0.3	15.1	228	48.6					<0.001		
R3971		0.2	13.4	134	41.5					0.007		91.5
R3972		0.3	16.3	140	53.4					<0.001	73.5	90.0



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		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
R3973		1.92	0.15	7.62	89.9	200	0.89	0.08	5.68	0.15	11.00	47.1	244	2.97	102.5	6.73
R3974		1.31	0.11	6.38	137.0	50	1.71	0.17	1.73	0.06	6.51	69.9	302	9.92	174.5	8.85
R3975		0.91	0.02	0.24	2.0	20	0.10	0.02	33.3	0.02	1.30	2.1	7	0.14	4.4	0.26
R3976		1.71	0.09	8.04	48.6	210	1.45	0.08	4.27	0.05	9.23	41.4	306	4.66	126.5	6.56
R3977		2.12	0.12	7.49	47.2	290	0.43	0.10	7.40	0.16	9.04	45.9	318	1.60	106.5	6.64
R3978		2.43	0.12	7.08	49.2	260	0.28	0.07	6.99	0.24	10.35	47.3	278	1.17	112.5	6.71
R3979		0.57	0.08	6.80	65.1	150	0.28	0.05	4.16	1.13	7.53	42.4	275	3.94	43.5	6.54
R3980		0.87	0.14	7.31	67.2	180	0.25	0.05	4.53	1.21	8.19	42.7	282	3.40	49.0	6.22
R3981		0.12	4.02	5.54	14.6	120	0.62	0.93	3.52	2.04	16.75	985	258	0.77	>10000	18.25
R3982		1.76	0.08	7.30	76.9	220	0.29	0.04	6.07	0.25	9.52	45.9	316	2.63	26.4	6.00
R3983		1.84	0.27	7.48	89.5	140	0.57	0.05	7.01	0.24	9.32	46.3	335	1.33	90.3	5.78
R3984		1.52	0.27	6.39	163.5	50	1.27	0.21	9.70	0.27	30.9	74.9	275	2.81	114.0	6.95
R3985		1.14	0.28	7.80	87.5	160	0.60	0.07	7.14	0.07	9.03	45.8	339	1.87	108.5	5.65
R3986		1.42	0.25	7.02	88.0	130	0.85	0.11	8.78	0.16	20.5	52.0	324	2.04	102.5	6.22
R3987		2.11	0.62	7.41	235	120	0.25	0.13	7.34	0.18	7.59	43.0	310	1.18	114.5	5.51
R3988		1.21	8.92	7.52	6470	60	1.12	657	4.82	0.19	14.30	836	323	2.50	515	6.48
R3989		2.19	0.27	7.58	178.0	260	0.35	0.99	7.28	0.09	7.64	48.1	357	0.88	73.3	5.68
R3990		2.06	0.19	7.56	178.5	200	0.26	4.07	7.09	0.22	7.10	48.3	350	1.14	67.1	5.53
R3991		2.22	0.13	7.45	108.5	150	0.22	0.18	7.86	0.13	7.25	46.1	353	0.53	66.0	5.63
R3992		1.26	0.13	7.11	196.5	190	0.22	0.20	6.77	0.19	6.88	45.0	356	1.39	60.2	5.49



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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
R3973		14.80	0.07	1.2	0.048	1.48	4.9	88.2	6.40	1440	0.33	1.68	1.7	151.5	160	201
R3974		13.20	0.06	0.9	0.156	0.27	2.6	244	9.89	1440	0.32	1.30	1.4	161.0	140	48.2
R3975		0.53	<0.05	0.1	<0.005	0.04	1.5	3.6	2.06	144	<0.05	0.06	0.1	4.8	80	4.4
R3976		14.15	0.05	1.0	0.058	1.44	4.1	102.0	6.53	1460	0.19	2.09	1.4	158.5	160	14.4
R3977		13.60	0.05	0.9	0.073	1.85	4.0	44.4	6.04	1560	0.21	1.33	1.4	172.5	150	29.3
R3978		13.75	0.06	1.1	0.046	1.80	4.7	34.9	5.76	1680	0.23	1.32	1.5	164.0	160	27.8
R3979		12.55	0.06	0.8	0.041	0.96	3.3	105.0	7.67	1660	0.19	2.04	1.3	162.5	130	277
R3980		12.15	0.06	0.9	0.040	1.10	3.6	94.3	7.19	1630	0.18	2.09	1.3	153.5	140	816
R3981		12.10	0.21	1.3	0.120	0.32	7.6	10.0	4.02	999	5.00	1.19	5.1	>10000	450	13.8
R3982		12.80	0.06	1.0	0.042	1.41	4.0	87.3	6.50	1740	0.22	1.71	1.5	196.0	160	178.0
R3983		13.40	0.07	0.9	0.044	1.75	4.4	48.4	5.90	1300	0.17	1.34	1.4	189.5	150	38.3
R3984		15.80	0.07	0.8	0.131	0.44	13.7	55.0	4.76	1810	2.24	1.82	1.0	151.0	110	101.5
R3985		13.50	0.06	0.9	0.040	2.02	4.3	54.1	5.60	1240	0.56	1.40	1.4	178.0	150	10.7
R3986		14.40	0.07	0.8	0.088	1.49	9.4	53.2	5.52	1840	0.77	1.32	1.3	175.5	140	98.0
R3987		12.95	0.06	0.8	0.035	1.07	3.4	61.3	5.69	1290	0.21	1.76	1.2	159.0	130	365
R3988		12.55	<0.05	0.7	0.075	0.49	6.6	94.2	6.35	1080	3.00	2.73	1.1	225	110	51.2
R3989		13.30	0.06	0.8	0.035	1.83	3.5	37.5	5.94	1340	0.20	1.08	1.3	180.5	120	29.6
R3990		13.00	0.06	0.7	0.037	1.61	3.2	46.2	5.93	1250	0.26	1.21	1.2	173.0	120	50.0
R3991		13.15	0.05	0.8	0.035	1.28	3.2	26.1	5.89	1240	0.22	0.99	1.3	182.0	130	10.0
R3992		12.80	0.05	0.7	0.033	1.43	3.1	54.6	6.18	1660	0.19	1.33	1.2	180.5	130	74.9



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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	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
R3973		63.4	<0.002	0.07	0.95	41.3	1	0.5	109.0	0.12	<0.05	1.24	0.312	0.33	0.4	222
R3974		18.6	<0.002	0.05	0.50	40.7	<1	0.4	34.5	0.10	<0.05	0.93	0.281	0.09	0.3	207
R3975		1.9	<0.002	<0.01	0.06	1.1	1	<0.2	81.8	<0.05	<0.05	0.10	0.013	0.02	0.1	6
R3976		56.0	<0.002	0.06	0.49	38.6	1	0.4	113.5	0.10	<0.05	0.98	0.260	0.31	0.3	194
R3977		79.4	<0.002	0.05	0.70	39.7	1	0.4	129.5	0.10	<0.05	0.97	0.258	0.40	0.3	193
R3978		78.1	<0.002	0.06	1.24	44.3	1	0.4	128.5	0.11	<0.05	1.13	0.267	0.38	0.4	204
R3979		33.7	<0.002	0.05	1.13	34.9	<1	0.3	90.9	0.09	<0.05	0.78	0.222	0.23	0.3	171
R3980		36.6	<0.002	0.06	1.13	37.2	1	0.4	99.4	0.09	<0.05	0.88	0.239	0.24	0.3	173
R3981		11.6	0.051	8.09	2.89	9.4	21	2.6	186.0	0.31	4.27	1.08	0.523	0.18	0.3	79
R3982		60.9	<0.002	0.04	1.34	41.2	<1	0.4	114.5	0.11	<0.05	1.00	0.278	0.30	0.3	202
R3983		71.6	<0.002	0.05	1.07	37.2	1	0.4	102.5	0.09	<0.05	0.88	0.245	0.31	0.3	180
R3984		23.5	0.002	0.04	1.58	32.5	1	0.4	54.0	0.07	<0.05	0.82	0.188	0.09	0.6	182
R3985		87.9	0.002	0.05	1.50	38.8	<1	0.4	82.2	0.10	<0.05	0.91	0.238	0.32	0.3	176
R3986		69.2	<0.002	0.04	1.28	38.9	1	0.4	86.2	0.09	<0.05	0.95	0.226	0.27	0.4	177
R3987		42.2	<0.002	0.03	4.72	36.9	<1	0.3	114.5	0.08	<0.05	0.83	0.216	0.21	0.3	167
R3988		24.0	<0.002	0.08	24.3	35.5	1	0.3	52.4	0.07	<0.05	0.76	0.193	0.10	0.3	157
R3989		72.7	<0.002	0.03	2.51	38.2	1	0.3	108.0	0.09	<0.05	0.85	0.207	0.36	0.3	168
R3990		60.1	<0.002	0.04	1.88	35.3	1	0.3	113.0	0.08	<0.05	0.83	0.206	0.32	0.3	166
R3991		46.9	<0.002	0.04	1.22	36.9	1	0.3	119.0	0.08	<0.05	0.84	0.213	0.25	0.3	165
R3992		55.6	<0.002	0.04	3.75	34.6	1	0.3	105.0	0.09	<0.05	0.75	0.210	0.31	0.3	166



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CERTIFICATE OF ANALYSIS SD21207348

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	Co–OG62 Co % 0.0005	Cu–OG62 Cu % 0.001	Ni–OG62 Ni % 0.001	Au–ICP21 Au ppm 0.001	CRU–QC Pass2mm % 0.01	PUL–QC Pass75um % 0.01
R3973		0.2	12.9	167	42.3					0.008		
R3974		0.2	10.4	274	33.3					0.013		
R3975		<0.1	3.0	9	2.8					0.001		
R3976		0.2	11.1	173	35.2					0.010		
R3977		0.2	11.4	124	33.0					0.005		
R3978		0.4	12.5	134	37.0					0.005		
R3979		0.2	9.3	557	29.1					0.002		
R3980		0.2	10.0	558	33.2					0.001		
R3981		2.5	10.0	139	48.6			1.645	4.66	0.258		
R3982		0.2	12.0	181	36.7					0.002		
R3983		0.2	10.7	139	33.3					<0.001		
R3984		0.3	24.6	190	29.4					<0.001		
R3985		0.2	10.8	78	32.3					0.004		
R3986		0.2	19.8	114	31.1					0.001		
R3987		0.1	10.2	111	29.6					0.001		
R3988		0.2	9.0	185	25.5					0.040		
R3989		0.2	9.6	80	29.7					0.001		
R3990		0.2	9.1	138	28.2					0.001		
R3991		0.2	9.5	73	29.4					0.001		
R3992		0.1	9.0	146	27.5					<0.001		



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CERTIFICATE COMMENTS									
	ANALYTICAL COMMENTS								
Applies to Method:	NSS is non-sufficient sample. ALL METHODS								
Applies to Method:	REEs 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. <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%;">LOG-22</td> <td style="width: 33%;">LOG-24</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	LOG-24	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-22	LOG-24						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Ag-OG62</td> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Co-OG62</td> <td style="width: 33%;">Cu-OG62</td> </tr> <tr> <td>ME-MS61</td> <td>ME-OG62</td> <td>Ni-OG62</td> <td></td> </tr> </table>	Ag-OG62	Au-ICP21	Co-OG62	Cu-OG62	ME-MS61	ME-OG62	Ni-OG62	
Ag-OG62	Au-ICP21	Co-OG62	Cu-OG62						
ME-MS61	ME-OG62	Ni-OG62							



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CERTIFICATE SD21227985

Project: Gowganda Transition-GE21-001W2
 P.O. No.: GE21-001W2
 This report is for 20 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 28-AUG-2021.
 The following have access to data associated with this certificate:

PETER DOYLE KAJAL MAKWANA	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS
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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
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	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	

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 SD21227985

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
R3993		1.79	0.16	6.77	29.7	50	0.22	1.44	6.73	0.04	8.84	50.0	34	0.08	129.0	6.87
R3994		0.89	0.10	5.29	15.1	30	2.82	0.52	7.37	0.04	48.2	94.4	464	1.76	116.5	9.07
R3995		1.46	0.14	6.77	3.4	60	1.49	0.25	8.75	0.03	44.7	45.5	442	1.20	95.0	7.11
R3996		1.01	0.10	7.39	3.5	1350	0.28	0.16	7.05	0.40	8.24	42.8	392	0.33	30.0	6.41
R3997		1.19	0.25	7.07	9.4	220	0.41	0.15	5.95	0.36	12.80	37.6	168	0.22	72.4	6.07
R3998		1.04	0.26	6.47	4.7	110	0.61	0.20	5.84	1.90	28.8	37.4	164	0.11	49.5	6.31
R3999		0.39	0.52	6.57	17.0	10	0.94	1.04	5.19	0.04	11.20	39.4	78	2.10	15.1	9.60
R4000		0.48	0.45	6.52	13.0	10	1.01	0.97	4.50	<0.02	9.29	40.0	77	2.24	16.1	9.86
R19001		0.12	4.43	5.59	17.6	120	0.58	1.01	3.65	2.27	18.05	1000	278	0.83	>10000	18.45
R19002		1.07	0.17	6.93	3.6	160	0.43	0.23	3.91	0.05	6.80	33.9	66	0.90	79.8	9.16
R19003		0.98	0.25	6.68	3.7	430	0.26	0.37	6.85	3.72	9.16	39.6	101	0.68	392	7.81
R19004		1.06	0.33	3.27	7.6	20	0.53	0.62	1.12	<0.02	15.60	14.8	39	0.41	82.6	3.31
R19005		1.87	0.24	5.83	2.1	50	0.47	0.59	0.55	<0.02	28.7	11.4	34	0.41	58.3	3.23
R19006		0.93	0.16	7.75	2.5	90	0.89	0.23	1.22	<0.02	41.6	16.2	30	0.72	132.5	3.70
R19007		1.11	0.12	6.78	1.5	20	1.22	0.10	6.53	0.02	42.8	15.2	17	0.49	3390	4.23
R19008		1.60	0.67	6.73	8.4	70	1.28	1.06	4.69	0.13	52.2	29.7	136	0.98	266	4.55
R19009		0.82	0.63	7.39	3.1	140	1.38	1.12	3.08	0.03	42.0	17.8	47	1.47	359	3.25
R19010		1.90	0.36	7.45	1.6	50	1.42	0.11	3.47	<0.02	66.0	19.4	78	1.74	713	5.15
R19011		1.12	0.08	7.13	11.3	50	1.03	0.03	0.42	<0.02	30.2	65.2	16	0.41	279	2.80
R19012		1.91	0.01	8.18	1.1	30	1.44	0.01	0.75	<0.02	48.6	14.0	17	0.48	31.2	3.17



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CERTIFICATE OF ANALYSIS SD21227985

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
R3993		14.40	<0.05	0.7	0.043	0.14	3.4	23.9	4.09	1210	1.05	2.00	1.5	68.3	240	4.9
R3994		14.45	0.07	1.6	0.086	0.08	20.6	52.7	8.62	1460	0.06	1.43	6.7	325	1320	7.3
R3995		14.85	0.08	1.0	0.067	0.15	21.6	31.3	5.49	1140	0.32	2.80	3.2	174.0	400	3.8
R3996		14.05	<0.05	0.9	0.046	0.51	3.0	30.5	5.53	1280	0.17	2.50	1.4	114.0	210	172.0
R3997		15.60	<0.05	0.7	0.039	0.33	5.8	26.1	4.02	1240	1.81	3.11	1.6	87.9	220	36.5
R3998		13.90	0.06	0.8	0.055	0.26	10.5	23.9	4.78	1230	0.73	2.80	2.4	123.0	390	51.8
R3999		16.50	0.05	1.2	0.171	0.05	4.4	82.1	5.68	1280	0.39	1.82	2.1	60.8	270	101.5
R4000		17.15	0.05	1.2	0.175	0.04	3.6	86.1	5.87	1270	0.26	1.70	2.0	62.7	290	101.5
R19001		13.20	0.20	1.3	0.123	0.32	8.1	10.3	4.15	1040	6.26	1.21	5.5	>10000	470	15.1
R19002		15.20	<0.05	1.0	0.117	0.51	2.6	22.8	4.18	1680	0.84	3.18	2.0	61.2	250	336
R19003		15.65	0.05	1.1	0.119	1.00	3.5	30.1	5.03	2070	0.50	2.47	2.0	60.6	270	150.0
R19004		9.18	<0.05	1.3	0.111	0.06	7.3	14.8	1.35	375	29.3	1.85	2.0	21.7	340	12.0
R19005		12.30	<0.05	1.4	0.067	0.14	14.0	16.9	1.24	355	1.40	3.83	3.6	19.3	420	19.2
R19006		17.10	<0.05	2.1	0.050	0.31	20.7	22.2	1.88	535	2.07	5.74	5.4	26.3	620	201
R19007		18.90	0.05	3.4	0.149	0.07	19.3	32.3	2.01	799	0.38	4.30	4.9	36.5	540	3.8
R19008		15.80	0.06	2.4	0.058	0.27	26.7	20.4	3.33	757	24.2	4.24	5.8	83.2	710	279
R19009		17.55	0.08	3.3	0.096	0.51	20.6	23.0	2.30	561	18.10	5.72	5.4	55.9	740	70.5
R19010		17.05	0.07	2.0	0.100	0.17	34.7	52.9	3.40	579	1.04	4.38	5.6	68.0	790	3.7
R19011		16.50	<0.05	2.0	0.023	0.19	14.9	24.6	1.17	218	0.87	4.86	4.4	23.1	430	1.5
R19012		19.30	0.05	2.5	0.022	0.13	23.9	27.4	1.58	291	0.70	5.86	5.2	20.4	530	2.0



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Project: Gowganda Transition-GE21-001W2

CERTIFICATE OF ANALYSIS SD21227985

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
R3993		2.9	<0.002	0.04	0.62	30.5	1	0.3	158.0	0.10	<0.05	0.34	0.347	<0.02	0.1	187
R3994		3.4	<0.002	0.16	0.37	22.8	1	0.6	154.0	0.35	<0.05	1.59	0.359	<0.02	0.5	187
R3995		6.0	<0.002	0.04	0.42	28.1	1	0.6	252	0.14	0.09	0.76	0.286	0.02	0.4	144
R3996		11.0	<0.002	0.05	0.34	31.8	1	0.2	394	0.09	<0.05	0.35	0.319	0.04	0.1	178
R3997		7.9	0.002	0.16	0.39	31.1	1	0.3	140.0	0.09	<0.05	0.49	0.311	0.03	0.2	166
R3998		6.0	<0.002	0.07	0.41	31.0	1	0.3	107.0	0.11	<0.05	6.73	0.318	0.03	0.7	165
R3999		4.0	<0.002	0.11	0.21	31.4	1	0.4	35.3	0.12	<0.05	0.52	0.431	0.02	0.2	207
R4000		4.1	<0.002	0.09	0.20	32.4	1	0.4	32.3	0.13	0.05	0.47	0.425	0.02	0.2	214
R19001		12.3	0.049	8.23	3.11	9.5	23	2.6	184.0	0.34	4.96	1.10	0.536	0.17	0.4	80
R19002		15.8	<0.002	0.03	0.30	31.8	<1	0.5	77.8	0.13	<0.05	0.42	0.427	0.06	0.1	199
R19003		29.6	<0.002	0.11	0.32	33.1	1	1.0	91.5	0.12	<0.05	0.46	0.428	0.10	0.1	203
R19004		2.1	0.014	0.01	0.16	7.2	<1	0.8	47.6	0.14	<0.05	2.14	0.140	0.02	0.5	53
R19005		3.9	<0.002	0.01	0.13	6.3	1	1.2	105.5	0.28	<0.05	1.77	0.184	0.03	0.5	44
R19006		8.2	<0.002	0.02	0.25	8.8	<1	1.9	175.5	0.45	<0.05	2.49	0.261	0.07	0.7	61
R19007		2.3	<0.002	0.34	0.28	10.6	1	0.5	99.0	0.40	<0.05	2.91	0.235	0.02	0.8	65
R19008		9.9	0.005	0.07	0.46	11.8	1	1.7	162.0	0.42	<0.05	2.42	0.271	0.07	0.6	92
R19009		15.3	0.003	0.07	0.29	10.8	1	1.5	247	0.38	0.06	2.56	0.297	0.09	0.7	84
R19010		8.6	<0.002	0.08	0.35	11.1	1	0.8	124.5	0.40	<0.05	2.58	0.288	0.04	0.7	82
R19011		6.9	<0.002	0.10	0.22	8.3	1	0.3	81.1	0.38	0.07	2.37	0.215	0.03	0.6	55
R19012		3.0	<0.002	0.01	0.23	9.7	<1	0.4	90.7	0.45	<0.05	2.66	0.264	0.02	0.7	66



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CERTIFICATE OF ANALYSIS SD21227985

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	Cu-OG62 Cu %	Ni-OG62 Ni %	CRU-QC Pass2mm %	PUL-QC Pass75um %
R3993		0.2	13.2	86	27.2			70.6	91.8
R3994		0.3	15.3	202	67.1				91.5
R3995		1.2	16.5	90	34.9				
R3996		0.2	12.1	175	33.0				
R3997		0.3	12.3	144	25.5				
R3998		0.3	25.5	532	29.5				
R3999		0.3	14.8	166	47.1				
R4000		0.3	13.5	165	42.7				
R19001		2.4	10.3	147	52.3	1.605	4.60		
R19002		0.3	14.2	164	34.3				
R19003		0.4	15.8	1150	36.5				
R19004		0.8	5.6	55	56.6				
R19005		0.9	7.0	57	54.7				
R19006		1.3	9.2	72	75.4				
R19007		0.2	16.4	61	131.5				
R19008		0.6	11.1	120	90.2				
R19009		0.4	11.3	47	127.0				
R19010		0.3	12.6	52	92.5				
R19011		1.1	8.1	32	80.6				
R19012		0.4	12.1	44	96.3				

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



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CERTIFICATE OF ANALYSIS SD21227985

	CERTIFICATE COMMENTS								
	ANALYTICAL COMMENTS								
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61								
	LABORATORY ADDRESSES								
Applies to Method:	<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%;">LOG-22</td> <td style="width: 17%;">LOG-24</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	LOG-24	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	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%;">Cu-OG62</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;">ME-OG62</td> <td style="width: 17%;">Ni-OG62</td> </tr> </table>	Cu-OG62	ME-MS61	ME-OG62	Ni-OG62				
Cu-OG62	ME-MS61	ME-OG62	Ni-OG62						



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CERTIFICATE SD21227975

Project: Gowganda Transition-GE21-001W3
 P.O. No.: GE21-001W3PEV
 This report is for 65 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 28-AUG-2021.
 The following have access to data associated with this certificate:

PETER DOYLE KAJAL MAKWANA	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS
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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
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	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
Aq-OG62	Ore Grade Ag – Four Acid	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Co-OG62	Ore Grade Co – Four Acid	
Cu-OG62	Ore Grade Cu – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	
As-OG62	Ore Grade As – Four Acid	

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 SD21227975

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 %
19013		1.09	0.03	7.00	14.8	170	0.23	0.04	7.59	0.05	8.06	40.7	259	0.23	22.4	6.07
19014		1.50	0.16	7.28	4.4	40	0.25	0.08	5.32	0.03	49.7	49.8	34	0.12	177.0	8.51
19015		1.50	0.13	6.88	1.6	80	0.22	0.04	6.73	0.03	15.55	40.1	31	0.13	128.5	6.81
19016		1.99	0.04	6.80	1.8	160	0.76	0.03	5.04	0.03	60.5	36.3	437	1.38	77.5	7.94
19017		1.88	0.10	6.60	2.3	70	1.05	0.04	5.66	<0.02	111.5	33.2	420	1.17	223	8.00
19018		2.05	0.14	7.28	7.6	280	0.72	0.13	7.32	0.75	32.1	46.4	284	0.44	78.4	6.27
19019		0.34	0.62	5.75	6.5	40	0.31	0.09	8.40	1.15	9.86	34.7	101	0.10	109.5	5.00
19020		0.38	0.35	5.88	22.3	50	0.35	0.29	9.24	1.31	8.10	51.5	93	0.08	179.0	5.47
19021		0.07	>100	4.31	692	230	0.75	60.1	0.65	25.6	32.0	10.3	29	2.70	5140	2.23
19022		0.93	1.65	6.78	22.1	110	0.38	0.32	6.36	12.75	6.95	39.1	73	0.19	165.5	7.38
19023		2.00	0.27	7.25	4.5	90	0.31	0.28	5.66	3.04	9.12	42.4	50	0.12	50.6	7.59
19024		1.00	0.10	7.11	4.9	90	0.36	0.10	5.58	0.20	10.55	45.1	69	0.12	54.0	7.99
19025		0.76	0.01	0.19	0.5	20	0.06	0.02	31.5	0.05	1.10	1.5	2	0.08	8.4	0.26
19026		2.03	0.11	6.44	5.2	120	0.43	0.11	6.03	0.11	16.80	49.9	5	0.08	77.1	11.30
19027		1.04	0.17	5.80	12.3	70	1.19	0.33	3.21	0.02	6.70	40.4	156	2.79	176.0	9.86
19028		1.95	0.10	7.21	10.4	260	0.43	0.12	4.52	0.02	10.80	43.3	58	1.33	71.0	11.30
19029		0.88	0.17	7.44	6.2	190	0.88	0.85	1.48	<0.02	31.6	10.7	26	0.28	143.0	2.66
19030		1.16	0.34	2.85	5.1	40	0.30	1.55	0.69	<0.02	15.00	9.2	20	0.26	96.5	1.75
19031		0.92	0.04	7.20	1.9	70	0.66	0.06	0.74	<0.02	27.2	13.0	16	0.43	37.5	2.90
19032		0.90	0.07	3.71	0.8	40	0.28	0.13	0.42	<0.02	16.90	5.8	17	0.19	16.4	1.49
19033		0.87	0.03	7.76	2.3	220	0.85	0.07	0.96	<0.02	27.1	15.7	23	1.12	34.8	4.27
19034		1.72	0.09	5.64	3.1	190	2.30	0.30	3.56	<0.02	88.1	42.2	383	5.40	28.0	7.72
19035		1.37	0.12	5.88	3.3	320	2.03	0.55	3.60	<0.02	51.8	44.9	392	7.86	50.3	8.83
19036		1.11	0.21	6.53	4.0	210	2.27	0.20	3.39	0.02	84.5	43.1	337	4.62	64.9	8.32
19037		0.82	0.05	7.66	2.2	30	0.92	0.01	0.72	<0.02	53.9	12.9	19	0.47	112.5	2.76
19038		0.88	0.11	7.39	5.6	20	1.07	0.22	0.49	0.02	74.3	15.8	25	0.42	1120	3.27
19067		1.78	0.66	6.89	165.0	130	1.14	1.20	1.23	<0.02	79.9	98.4	21	0.21	214	1.38
19068		2.28	3.92	6.97	91.1	60	1.18	0.27	0.40	11.95	45.6	58.1	18	0.67	1090	2.30
19069		1.86	4.70	7.42	139.5	170	1.03	0.70	0.57	19.80	51.4	78.7	19	0.68	1350	3.18
19070		1.73	3.95	7.25	65.9	40	1.06	0.37	0.85	10.20	48.7	34.4	36	0.53	554	2.22
19071		1.56	1.54	7.40	51.9	830	1.17	0.16	0.68	3.34	40.7	28.5	83	1.86	147.0	3.75
19072		1.01	0.68	7.10	538	240	0.56	0.05	5.68	0.39	15.20	39.5	82	2.51	178.0	6.51
19073		2.09	0.27	7.30	66.9	410	0.40	0.08	6.23	0.09	14.45	45.1	103	1.61	106.5	7.63
19074		2.11	0.20	7.31	185.0	320	0.59	0.19	5.39	0.24	15.65	48.8	109	2.04	105.5	7.98
19075		0.81	<0.01	0.10	1.3	20	0.05	0.01	32.7	<0.02	1.04	0.9	2	0.06	1.8	0.14
19076		2.13	0.38	7.24	386	390	0.42	0.16	6.22	0.28	15.45	46.3	98	2.05	131.5	7.59
19077		1.21	2.04	6.49	852	200	0.69	1.67	8.28	0.62	35.2	56.2	76	1.20	486	6.11
19078		0.99	15.25	6.20	>10000	190	0.83	1240	8.71	0.18	42.6	3660	73	1.34	106.0	6.42
19079		0.45	0.85	7.48	624	280	0.49	3.68	6.53	0.08	16.70	59.6	93	1.33	169.0	7.76
19080		0.55	0.96	7.12	642	260	0.42	2.13	6.43	0.07	15.45	54.2	91	1.27	212	7.67



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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
19013		13.95	<0.05	0.5	0.047	0.52	3.3	17.8	4.37	1040	0.38	1.85	1.3	73.2	210	2.3
19014		19.05	0.15	1.7	0.067	0.10	24.7	31.6	3.90	1210	0.82	1.54	4.2	68.2	610	3.4
19015		16.30	0.10	1.5	0.052	0.19	6.2	29.5	3.90	1160	0.83	1.89	2.6	65.7	410	3.2
19016		13.65	0.14	0.7	0.053	0.52	30.3	33.6	5.75	1100	0.22	2.64	1.1	136.0	180	2.0
19017		16.95	0.18	1.2	0.083	0.23	68.9	35.6	4.66	964	0.26	2.59	3.2	179.0	470	2.8
19018		13.95	0.13	0.8	0.042	0.34	16.0	28.1	4.83	1310	0.19	2.81	4.9	107.5	580	157.0
19019		12.20	0.09	0.7	0.038	0.16	4.3	17.1	3.29	970	2.01	2.64	1.4	79.2	180	17.3
19020		11.45	0.07	0.6	0.039	0.16	3.4	20.0	3.66	1090	4.62	2.83	1.3	86.9	190	65.2
19021		22.5	0.18	2.6	5.39	0.68	16.0	21.1	0.20	238	4.58	0.44	8.0	60.5	570	1035
19022		15.70	0.09	0.8	0.071	0.23	2.8	36.8	4.04	1690	0.94	3.10	1.4	85.9	190	758
19023		16.05	0.08	0.8	0.075	0.11	3.7	40.4	4.12	1300	0.46	3.12	1.8	78.5	280	138.0
19024		14.65	0.10	0.8	0.067	0.17	4.4	36.4	4.37	1350	0.49	3.04	1.8	95.6	340	15.2
19025		0.54	0.13	0.1	0.005	0.02	1.3	1.8	3.55	154	0.11	0.08	0.1	2.0	80	2.6
19026		19.55	0.06	1.0	0.089	0.56	6.8	24.0	3.29	1730	0.34	1.45	2.6	34.4	400	25.6
19027		14.80	0.07	0.8	0.129	0.22	2.7	69.1	5.65	1180	0.93	1.30	1.5	57.0	210	17.4
19028		17.70	0.07	0.9	0.149	0.72	4.4	42.2	4.51	2120	0.54	2.34	2.2	46.3	370	18.4
19029		21.1	0.14	2.1	0.041	0.44	16.3	12.3	0.90	268	0.25	5.02	1.6	17.1	380	5.3
19030		6.43	0.10	1.0	0.040	0.11	6.9	8.5	0.69	237	14.10	1.82	1.6	9.5	210	6.9
19031		15.20	0.15	3.0	0.030	0.18	12.9	19.5	1.65	404	1.03	5.48	4.8	14.1	550	3.9
19032		7.38	0.10	1.1	0.020	0.09	7.9	8.2	0.71	197	1.21	2.69	2.2	8.4	250	11.1
19033		19.55	0.12	2.1	0.044	0.84	11.8	48.6	2.42	579	0.66	4.47	4.9	22.1	620	1.9
19034		15.75	0.18	2.5	0.062	1.16	42.2	75.4	7.50	893	0.85	2.31	9.8	321	1230	2.9
19035		16.00	0.15	2.4	0.052	2.43	25.3	77.1	7.29	842	1.40	2.08	9.0	317	1280	3.7
19036		17.95	0.19	2.3	0.131	0.89	42.4	79.7	6.50	887	2.40	2.77	9.5	217	1390	3.9
19037		16.55	0.18	2.3	0.020	0.13	27.2	23.1	1.50	288	0.26	5.46	4.8	21.4	510	2.0
19038		20.1	0.18	3.5	0.037	0.05	39.8	19.8	1.68	324	0.82	5.33	5.3	46.7	470	4.2
19067		14.30	0.17	3.7	0.033	0.81	39.5	14.3	0.57	147	3.15	5.14	5.4	43.0	610	6.4
19068		15.55	0.14	3.5	0.044	0.19	23.2	21.6	0.97	349	2.95	5.21	5.3	36.4	570	1410
19069		16.55	0.15	4.0	0.083	0.47	24.5	26.9	1.16	355	3.06	5.40	4.9	58.1	860	3050
19070		16.55	0.16	3.8	0.141	0.17	23.3	22.2	1.09	290	3.11	5.64	5.4	45.0	630	3820
19071		20.2	0.18	2.6	0.037	2.09	18.9	58.0	2.41	566	1.55	3.85	3.0	57.2	590	905
19072		17.15	0.13	1.6	0.051	0.95	6.7	41.6	3.87	1220	0.52	2.28	2.6	98.9	380	72.8
19073		15.50	0.11	1.5	0.057	1.84	6.4	37.0	4.27	1420	0.34	1.62	2.3	99.7	260	26.8
19074		17.65	0.13	1.5	0.068	1.88	6.8	40.3	4.40	1410	1.27	1.52	2.3	103.0	250	353
19075		0.31	0.13	<0.1	<0.005	0.02	1.2	1.2	2.56	132	0.06	0.04	0.1	1.0	80	2.4
19076		15.60	0.12	1.6	0.058	2.02	7.2	33.4	4.17	1580	0.79	1.42	2.4	92.8	260	44.6
19077		17.55	0.12	1.5	0.088	1.08	15.2	38.7	3.48	1460	6.93	2.26	2.4	82.4	290	503
19078		16.95	0.10	1.5	0.155	1.00	15.7	44.4	3.42	1610	2.33	2.03	2.3	97.5	250	101.0
19079		15.70	0.05	1.6	0.050	1.91	7.1	38.5	4.23	1540	0.38	1.62	2.5	91.5	270	32.5
19080		15.45	0.05	1.6	0.060	1.90	6.6	37.4	4.12	1520	0.39	1.62	2.5	91.3	270	31.6



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CERTIFICATE OF ANALYSIS SD21227975

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
19013		12.4	<0.002	0.04	0.08	33.1	1	0.4	167.5	0.07	<0.05	0.30	0.304	0.07	0.1	171
19014		1.7	0.004	0.81	0.19	31.0	2	0.7	172.0	0.25	0.12	1.20	0.645	<0.02	0.3	225
19015		4.2	0.003	0.17	0.15	30.9	1	0.4	153.0	0.15	0.05	0.56	0.462	0.02	0.1	189
19016		17.6	<0.002	0.02	0.43	31.0	1	0.5	219	0.07	0.06	0.26	0.266	0.09	0.2	158
19017		7.0	<0.002	0.04	0.60	26.3	1	0.8	115.0	0.15	0.07	0.61	0.298	0.03	0.7	146
19018		7.2	<0.002	0.12	0.37	28.2	1	0.3	565	0.14	0.07	0.72	0.310	0.04	0.2	181
19019		3.1	<0.002	0.24	0.24	24.9	1	0.3	142.0	0.08	0.05	0.71	0.278	0.02	0.1	142
19020		3.2	0.003	0.47	0.48	26.4	1	0.3	132.5	0.07	0.07	0.53	0.293	0.02	0.1	143
19021		28.2	<0.002	2.12	86.7	4.3	34	5.9	465	0.59	41.9	6.66	0.215	1.72	2.4	33
19022		4.4	<0.002	0.42	0.78	29.8	1	0.4	81.3	0.08	0.16	0.27	0.306	0.03	0.1	166
19023		1.0	<0.002	0.09	0.25	32.8	<1	0.3	114.0	0.11	<0.05	0.35	0.408	0.02	0.1	195
19024		2.9	<0.002	0.04	0.22	35.0	1	0.4	107.5	0.11	<0.05	0.53	0.396	<0.02	0.1	185
19025		0.9	<0.002	0.01	0.08	0.7	1	<0.2	69.1	<0.05	<0.05	0.07	0.012	0.02	0.1	4
19026		11.5	0.002	0.11	0.44	39.2	1	0.6	165.0	0.15	<0.05	0.54	0.855	0.06	0.1	501
19027		11.0	<0.002	0.08	0.42	27.2	<1	0.4	36.0	0.09	0.05	0.30	0.361	0.06	0.1	182
19028		23.6	0.002	0.08	0.42	32.7	<1	0.8	83.8	0.13	<0.05	0.43	0.497	0.08	0.2	227
19029		8.3	<0.002	0.05	0.15	5.0	<1	0.5	373	0.10	<0.05	1.69	0.162	0.04	0.6	41
19030		3.0	0.007	0.02	1.39	4.4	<1	0.4	59.7	0.13	<0.05	1.17	0.116	0.02	0.3	35
19031		4.2	<0.002	0.01	0.23	8.9	<1	1.7	141.0	0.41	<0.05	2.22	0.273	0.03	0.6	65
19032		1.8	<0.002	<0.01	0.12	4.2	<1	0.9	77.1	0.17	<0.05	1.03	0.127	0.02	0.3	31
19033		17.5	<0.002	0.01	0.21	11.2	<1	2.9	119.5	0.39	<0.05	1.66	0.279	0.09	0.5	77
19034		56.4	<0.002	<0.01	0.36	18.7	<1	1.3	116.0	0.40	<0.05	2.20	0.360	0.27	0.5	142
19035		115.0	<0.002	0.01	0.38	18.6	1	1.1	101.0	0.39	<0.05	2.40	0.382	0.57	0.6	154
19036		46.6	<0.002	0.02	0.41	21.5	<1	0.8	160.0	0.29	<0.05	3.54	0.399	0.21	0.8	165
19037		2.7	<0.002	0.02	0.22	9.2	<1	0.3	80.9	0.39	<0.05	2.28	0.258	<0.02	0.5	65
19038		0.9	<0.002	0.17	0.28	11.3	1	0.2	63.5	0.41	<0.05	2.72	0.268	<0.02	0.8	80
19067		11.8	<0.002	0.06	0.58	6.7	<1	0.3	59.8	0.43	0.08	2.65	0.232	0.06	1.0	41
19068		6.5	0.004	0.64	1.95	8.3	1	0.4	86.9	0.43	0.12	3.04	0.225	0.08	1.0	46
19069		12.1	0.004	1.38	3.30	10.2	3	0.5	85.3	0.39	0.18	3.66	0.262	0.10	1.2	60
19070		3.3	0.003	0.38	2.45	10.9	1	0.3	54.9	0.43	0.12	3.38	0.255	0.03	1.1	61
19071		42.7	0.002	0.14	1.49	13.8	<1	0.5	107.0	0.21	0.05	2.09	0.292	0.24	0.8	108
19072		34.4	0.002	0.08	2.58	32.4	1	0.6	118.5	0.28	0.05	1.81	0.329	0.32	0.6	189
19073		81.2	<0.002	0.08	2.07	38.4	1	0.6	149.5	0.16	0.05	1.65	0.374	0.36	0.5	217
19074		77.5	0.002	0.08	4.10	36.1	1	0.6	123.5	0.16	<0.05	1.56	0.381	0.36	0.7	226
19075		0.9	<0.002	<0.01	0.08	0.3	<1	<0.2	72.5	<0.05	<0.05	0.07	0.007	0.02	0.1	2
19076		89.4	<0.002	0.08	4.99	38.6	1	0.7	151.5	0.17	<0.05	1.66	0.375	0.41	0.5	225
19077		48.4	0.005	0.11	5.24	31.1	1	0.4	111.0	0.16	<0.05	1.69	0.288	0.19	1.0	163
19078		45.0	<0.002	0.13	11.80	25.1	1	0.4	106.5	0.18	<0.05	1.59	0.274	0.19	0.9	156
19079		86.0	<0.002	0.07	4.60	37.6	1	0.7	130.0	0.18	<0.05	1.78	0.395	0.36	0.6	233
19080		73.0	<0.002	0.08	4.43	35.9	1	0.7	131.0	0.18	<0.05	1.73	0.385	0.38	0.6	234



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	As-OG62	Co-OG62	Cu-OG62	Ni-OG62	CRU-QC	PUL-QC
		W	Y	Zn	Zr	Ag	As	Co	Cu	Ni	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%
		0.1	0.1	2	0.5	1	0.001	0.0005	0.001	0.001	0.01	0.01
19013		0.3	11.8	68	19.5						72.7	92.5
19014		0.6	28.3	102	78.9							90.6
19015		0.4	18.7	93	47.6							
19016		0.7	13.8	81	21.7							
19017		1.0	17.3	76	45.0							
19018		0.2	15.9	248	33.7							
19019		0.2	11.2	315	24.6							
19020		0.2	10.4	345	19.4							
19021		12.5	6.2	3920	90.3	124						
19022		0.2	10.8	3130	26.8							
19023		0.2	14.2	873	30.6							
19024		0.2	13.4	152	30.6							
19025		0.1	2.6	15	1.9							
19026		0.5	20.3	150	41.9							
19027		0.2	15.6	161	31.6							
19028		0.3	19.0	229	33.5							
19029		0.7	4.6	33	81.2							
19030		0.6	4.4	29	38.7							
19031		1.1	9.3	55	118.5							
19032		0.6	4.1	26	48.3							
19033		1.0	10.3	64	84.3							
19034		0.4	16.7	116	103.0							
19035		0.5	15.6	98	101.0							
19036		0.2	18.4	111	89.2							
19037		0.3	9.9	49	92.1							
19038		0.3	11.3	54	141.5							94.6
19067		0.4	14.1	11	152.0							90.2
19068		0.3	10.5	3730	142.0							
19069		0.4	12.7	7190	166.0							
19070		0.3	10.6	3870	153.5							
19071		0.3	8.7	1330	102.5							
19072		0.3	14.7	178	57.1							
19073		0.3	15.6	78	56.1							
19074		0.3	15.8	131	55.3							
19075		0.1	2.2	5	1.7							
19076		0.3	15.8	140	58.8							
19077		0.3	45.3	254	58.8							
19078		0.3	33.7	149	54.4		2.68					
19079		0.3	17.3	83	58.4							88.8
19080		0.3	17.0	79	57.2						71.1	86.9



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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
19081		0.12	4.58	5.57	17.9	120	0.66	1.12	3.61	2.13	17.95	1000	273	0.82	>10000	18.40
19082		1.55	0.45	7.82	387	220	0.45	0.43	6.54	0.58	15.90	55.5	139	1.26	117.5	7.60
19083		1.61	1.85	7.69	770	200	0.42	13.40	7.35	0.12	17.35	115.5	131	1.19	130.5	7.54
19084		0.88	1.10	7.86	152.5	220	0.45	0.28	6.85	0.09	13.85	47.6	154	1.19	119.0	7.03
19085		1.79	3.05	6.11	412	100	0.47	3.74	14.40	0.59	61.3	115.5	86	0.83	167.5	5.70
19086		1.95	0.22	6.87	374	80	1.20	0.84	7.50	0.06	18.00	108.5	51	2.06	194.5	6.98
19087		1.89	0.18	8.53	49.4	190	0.29	0.18	7.86	0.23	10.40	43.6	163	0.83	103.0	5.97
19088		1.39	0.30	6.54	86.8	240	0.87	0.33	5.96	0.25	11.35	47.8	242	3.82	183.0	6.41
19089		1.27	0.20	7.98	93.2	210	0.82	0.17	7.84	0.14	10.50	49.8	273	1.21	135.5	6.27
19090		0.89	0.42	6.78	84.9	110	0.76	0.15	10.75	0.22	38.1	46.6	246	1.27	262	5.69
19091		1.60	25.6	7.14	380	120	0.23	0.29	7.84	0.16	8.66	51.8	358	0.82	182.5	6.26
19092		1.97	2.65	7.68	326	150	0.28	0.14	8.33	0.14	9.04	53.4	376	1.01	103.0	6.43
19093		1.35	>100	6.96	>10000	130	0.64	64.2	6.66	0.21	10.50	311	377	1.80	671	7.18
19094		1.60	0.83	6.98	208	110	0.21	0.21	7.87	0.09	8.30	50.9	361	0.55	74.5	6.14
19095		1.72	0.48	7.36	137.5	100	0.22	0.21	8.18	0.09	8.47	50.3	376	0.64	70.8	6.02
19096		2.09	0.09	7.63	72.7	130	0.50	0.11	7.19	0.08	6.70	48.6	368	1.52	64.7	5.46
19097		2.22	0.12	7.55	131.0	150	2.00	0.11	8.45	0.08	8.19	54.7	390	3.27	110.5	5.24
19098		1.94	0.11	6.27	68.4	90	1.50	0.31	10.50	0.03	7.97	46.9	296	3.74	115.5	4.77
19099		0.85	0.10	7.85	35.2	130	2.09	0.21	7.67	<0.02	9.55	42.7	372	4.21	136.0	5.60
19100		1.01	0.10	7.05	35.6	110	1.81	0.20	10.15	0.05	13.50	39.6	331	3.82	140.5	4.93
19101		0.02	0.85	7.20	3.6	250	1.05	0.11	5.78	0.80	39.1	>10000	176	0.77	1905	7.32
19102		2.02	0.04	6.28	16.4	40	1.80	0.15	9.85	0.02	19.55	66.4	321	3.45	84.2	5.52
19103		1.83	0.10	5.51	22.3	30	1.36	0.21	10.40	0.13	20.6	44.2	284	3.79	622	5.38
19104		1.98	0.10	8.24	42.1	130	2.23	0.22	8.08	<0.02	8.97	41.4	393	2.79	182.0	4.60
19105		2.11	0.11	6.63	32.2	90	1.30	0.12	5.78	<0.02	5.19	44.9	329	4.70	186.0	5.96



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CERTIFICATE OF ANALYSIS SD21227975

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
19081		12.30	0.22	1.4	0.130	0.32	7.4	10.6	4.09	1020	6.05	1.21	5.3	>10000	470	14.7
19082		16.50	0.07	1.5	0.067	1.93	6.8	35.7	4.45	1350	1.05	1.73	2.4	122.0	260	34.0
19083		16.35	<0.05	1.5	0.062	1.79	7.0	36.4	4.32	1440	1.41	1.79	2.3	106.5	250	25.4
19084		15.75	0.06	1.3	0.056	1.87	6.3	40.7	4.48	1400	0.32	1.49	2.1	114.5	220	35.0
19085		15.10	0.12	1.0	0.107	1.01	24.7	33.6	3.25	1550	5.58	1.53	1.7	86.1	200	205
19086		15.30	0.06	1.6	0.123	0.55	8.1	77.2	3.95	1100	1.56	2.28	2.4	98.8	270	16.0
19087		15.20	0.05	1.1	0.042	1.67	4.6	37.2	4.50	1280	0.25	1.48	1.7	122.0	180	21.8
19088		12.40	0.05	0.9	0.107	0.82	4.9	111.5	6.74	1270	0.20	1.66	1.3	142.0	140	58.6
19089		14.85	0.05	1.1	0.044	1.76	4.7	41.9	5.31	1380	0.21	1.44	1.7	149.0	170	21.1
19090		12.90	0.10	0.9	0.137	1.39	14.8	36.3	5.24	1950	0.54	1.36	1.4	153.5	160	47.6
19091		12.85	<0.05	0.9	0.046	1.06	3.9	37.2	6.61	1340	0.16	1.31	1.4	210	150	54.8
19092		13.45	0.05	0.9	0.045	1.28	3.9	36.0	6.76	1310	0.18	1.20	1.5	202	160	53.0
19093		12.25	0.05	0.9	0.082	1.25	5.0	47.7	5.97	1230	11.15	1.71	1.4	178.5	140	22.8
19094		12.70	<0.05	0.9	0.039	1.18	3.6	24.0	6.46	1260	0.20	1.06	1.4	182.0	150	9.6
19095		12.85	<0.05	0.9	0.040	1.03	3.7	24.8	6.40	1200	0.27	1.10	1.4	176.5	150	7.0
19096		12.45	<0.05	0.7	0.031	2.24	2.9	44.9	6.15	1120	0.14	1.15	1.1	193.0	120	3.3
19097		12.50	<0.05	0.7	0.040	1.72	4.1	66.2	5.52	1270	0.13	1.47	1.1	237	130	11.6
19098		10.60	<0.05	0.6	0.095	0.66	3.7	90.2	4.02	2110	0.13	2.01	0.9	168.5	100	48.8
19099		14.30	<0.05	0.7	0.163	0.83	4.7	115.0	5.14	1720	0.23	2.52	1.0	191.0	120	14.6
19100		12.60	<0.05	0.6	0.185	0.71	7.0	100.5	4.45	2050	0.19	2.37	1.0	175.0	110	22.8
19101		20.3	0.12	3.5	0.063	0.69	18.4	8.1	3.81	989	3.38	2.22	23.1	>10000	1450	23.0
19102		13.30	<0.05	0.6	0.276	0.20	8.7	128.5	5.21	1960	0.48	2.25	0.8	192.5	100	8.7
19103		10.85	<0.05	0.5	0.306	0.21	9.4	122.5	4.82	1970	0.46	1.83	0.7	171.5	90	8.1
19104		13.05	<0.05	0.8	0.109	1.15	4.8	82.6	3.99	1380	0.09	3.00	1.2	198.0	140	3.7
19105		12.00	<0.05	0.6	0.086	0.72	2.3	147.0	5.89	1480	0.13	2.01	0.9	186.0	100	2.4



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CERTIFICATE OF ANALYSIS SD21227975

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
19081		11.6	0.050	8.18	3.16	8.7	24	2.6	183.5	0.33	4.64	1.12	0.524	0.18	0.4	79
19082		81.0	<0.002	0.09	9.89	37.6	1	0.7	134.0	0.17	<0.05	1.68	0.369	0.41	0.6	219
19083		81.6	<0.002	0.07	9.86	37.9	1	0.6	128.5	0.16	<0.05	1.63	0.377	0.35	0.6	228
19084		87.6	<0.002	0.07	7.10	37.6	1	0.6	136.5	0.15	<0.05	1.48	0.335	0.39	0.5	218
19085		48.2	<0.002	0.08	5.16	35.2	2	0.5	100.5	0.12	<0.05	1.22	0.253	0.20	0.7	153
19086		28.3	<0.002	0.09	0.55	34.8	1	0.5	82.1	0.17	<0.05	1.71	0.361	0.14	0.6	212
19087		66.8	<0.002	0.06	0.60	31.7	1	0.5	133.5	0.12	0.05	1.15	0.270	0.37	0.4	178
19088		38.0	<0.002	0.06	0.51	32.3	1	0.4	80.8	0.09	0.05	0.96	0.218	0.19	0.4	163
19089		81.4	<0.002	0.07	0.85	38.3	1	0.5	130.5	0.12	<0.05	1.18	0.271	0.39	0.4	190
19090		65.7	<0.002	0.06	0.95	41.6	1	0.4	90.9	0.10	0.05	0.98	0.236	0.23	0.5	168
19091		40.6	<0.002	0.04	32.7	36.5	1	0.4	127.0	0.10	<0.05	0.92	0.242	0.20	0.3	182
19092		54.3	<0.002	0.04	8.85	38.6	1	0.4	126.5	0.10	<0.05	0.99	0.254	0.26	0.3	186
19093		60.2	<0.002	0.07	171.0	36.1	1	0.3	83.0	0.09	<0.05	1.00	0.234	0.25	0.4	174
19094		45.1	<0.002	0.04	2.64	36.8	1	0.3	109.0	0.10	<0.05	0.92	0.237	0.25	0.3	180
19095		43.4	<0.002	0.04	1.89	37.3	1	0.4	110.0	0.10	<0.05	0.98	0.240	0.22	0.3	180
19096		81.2	<0.002	0.04	0.17	33.6	1	0.3	88.3	0.08	<0.05	0.75	0.201	0.42	0.3	159
19097		64.6	<0.002	0.04	0.34	35.2	1	0.3	80.9	0.08	<0.05	0.79	0.208	0.35	0.3	163
19098		30.5	<0.002	0.03	0.21	28.8	1	0.3	77.4	0.07	<0.05	0.63	0.163	0.15	0.2	129
19099		28.2	<0.002	0.03	0.11	30.7	1	0.3	70.2	0.07	<0.05	0.68	0.196	0.16	0.3	162
19100		32.7	<0.002	0.03	0.11	30.5	1	0.3	73.7	0.07	<0.05	0.67	0.180	0.15	0.3	145
19101		21.8	<0.002	2.56	2.13	19.5	2	1.5	411	1.29	<0.05	2.75	1.015	0.10	0.7	146
19102		10.7	<0.002	0.01	0.11	28.4	2	0.4	43.5	0.06	<0.05	0.66	0.156	0.04	0.3	141
19103		11.0	<0.002	0.07	0.20	27.3	1	0.3	45.2	0.05	<0.05	0.57	0.140	0.05	0.2	121
19104		29.4	<0.002	0.05	0.11	34.6	1	0.4	89.2	0.08	<0.05	0.72	0.220	0.21	0.3	177
19105		18.8	<0.002	0.04	0.11	29.1	1	0.3	62.2	0.07	<0.05	0.52	0.172	0.14	0.2	141



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CERTIFICATE OF ANALYSIS SD21227975

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	As-OG62	Co-OG62	Cu-OG62	Ni-OG62	CRU-QC	PUL-QC
		W	Y	Zn	Zr	Ag	As	Co	Cu	Ni	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%
		0.1	0.1	2	0.5	1	0.001	0.0005	0.001	0.001	0.01	0.01
19081		2.3	10.2	142	57.8				1.625	4.66		
19082		0.3	16.7	232	56.2							
19083		0.3	21.7	90	53.3							
19084		0.3	15.7	75	48.5							
19085		0.3	87.7	233	40.6							
19086		0.4	17.9	88	56.7							
19087		0.2	12.2	117	39.3							
19088		0.2	12.4	310	32.1							
19089		0.2	13.5	115	39.6							
19090		0.2	43.3	130	34.3							
19091		0.2	10.9	110	34.0							
19092		0.2	11.5	103	34.6							
19093		0.2	10.6	139	33.7	239	3.47					
19094		0.2	10.6	68	32.6							
19095		0.2	11.0	62	32.9							
19096		0.2	8.9	66	26.9							
19097		0.2	9.2	93	28.0							
19098		0.2	10.2	78	21.6							
19099		0.3	9.6	80	25.9							
19100		0.3	12.0	101	24.2							
19101		1.7	23.2	126	145.5			2.03		2.23		
19102		0.3	18.6	92	21.6							
19103		0.3	17.1	141	19.6							
19104		0.3	9.5	77	29.1							
19105		0.2	6.4	90	23.3							



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CERTIFICATE OF ANALYSIS SD21227975

	CERTIFICATE COMMENTS								
	ANALYTICAL COMMENTS								
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61								
	LABORATORY ADDRESSES								
Applies to Method:	<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%;">LOG-22</td> <td style="width: 33%;">LOG-24</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	LOG-24	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	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%;">As-OG62</td> <td style="width: 33%;">Co-OG62</td> <td style="width: 33%;">Cu-OG62</td> </tr> <tr> <td>ME-MS61</td> <td>ME-OG62</td> <td>Ni-OG62</td> <td></td> </tr> </table>	Ag-OG62	As-OG62	Co-OG62	Cu-OG62	ME-MS61	ME-OG62	Ni-OG62	
Ag-OG62	As-OG62	Co-OG62	Cu-OG62						
ME-MS61	ME-OG62	Ni-OG62							



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CERTIFICATE SD21207351

Project: Gowganda Transition – GE21-002

This report is for 78 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 9-AUG-2021.

The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
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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
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	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
Aq-OG62	Ore Grade Ag – Four Acid	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Co-OG62	Ore Grade Co – Four Acid	
Cu-OG62	Ore Grade Cu – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	
Au-ICP21	Au 30g FA ICP-AES Finish	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 SD21207351

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 %
R3855		0.77	0.02	5.94	1.5	80	1.22	0.14	5.25	<0.02	27.8	47.2	705	0.54	40.9	7.70
R3856		1.09	0.03	7.31	1.6	210	0.97	0.14	5.10	0.02	55.2	32.4	208	0.75	66.9	5.51
R3857		1.32	0.16	6.82	1.5	140	1.32	0.19	6.81	0.02	60.3	34.2	165	1.28	360	5.16
R3858		2.05	0.47	6.20	19.3	60	0.77	0.25	3.44	0.24	9.14	89.1	553	1.36	260	9.38
R3859		0.92	0.56	6.00	21.1	30	0.75	0.27	4.53	0.42	15.05	71.0	475	1.37	264	8.02
R3860		0.92	0.52	5.39	17.7	30	0.72	0.24	4.57	0.53	16.20	62.3	461	1.42	233	7.78
R3861		0.12	3.97	5.38	15.0	110	0.60	0.93	3.42	2.02	16.60	958	255	0.79	>10000	17.70
R3862		1.15	0.37	3.05	10.7	30	0.76	0.55	9.31	<0.02	248	139.5	1300	0.84	22.6	9.46
R3863		2.17	0.17	3.54	16.1	10	0.53	0.23	4.83	0.17	8.60	113.5	1450	2.23	153.0	8.98
R3864		1.80	0.16	3.61	16.2	20	0.39	0.20	5.67	0.05	8.06	108.5	1440	2.08	88.1	8.98
R3865		0.99	0.35	7.10	3.2	250	0.67	0.70	5.64	0.11	32.9	56.5	67	0.79	73.5	9.38
R3866		1.45	0.45	6.09	7.2	40	0.61	0.58	0.91	0.09	15.10	15.8	25	0.06	583	0.95
R3867		1.40	4.24	8.18	38.4	180	1.09	22.5	0.56	0.03	31.7	110.5	62	0.52	3720	3.50
R3868		1.88	8.25	8.01	28.4	840	1.41	4.98	0.54	0.03	45.7	139.5	117	2.15	249	5.42
R3869		2.02	0.95	7.45	553	710	1.18	3.42	0.37	0.02	24.9	516	134	1.98	394	5.23
R3870		2.13	0.60	7.81	18.8	710	1.59	1.70	0.24	0.17	48.8	36.2	71	1.89	417	5.51
R3871		1.87	0.25	7.62	7.9	980	1.40	0.66	0.19	0.13	53.6	25.1	15	1.33	237	3.07
R3872		1.96	0.02	7.34	2.0	220	0.54	0.15	4.16	0.02	21.2	37.0	273	0.24	30.3	5.20
R3873		1.56	0.05	1.98	1.0	10	0.43	0.14	17.20	<0.02	27.3	24.9	344	0.21	12.0	2.98
R3874		1.50	0.06	1.18	1.4	<10	0.32	0.12	21.0	<0.02	36.2	21.9	316	0.09	32.7	2.07
R3875		0.48	<0.01	0.08	0.2	10	0.07	0.02	29.9	<0.02	0.97	0.9	6	<0.05	1.2	0.13
R3876		0.98	0.14	2.92	21.7	10	1.02	0.33	11.85	<0.02	25.9	86.6	419	0.67	483	5.94
R3877		1.55	1.92	2.94	34.7	<10	0.83	8.80	8.36	2.74	12.15	106.0	445	0.27	2120	6.74
R3878		0.92	0.03	5.23	3.4	140	0.49	0.15	5.52	0.03	11.50	41.4	1090	0.57	44.0	6.86
R3879		0.47	0.49	5.71	11.6	110	0.52	29.4	3.14	<0.02	13.65	38.9	252	0.73	599	6.15
R3880		0.58	1.45	5.04	23.0	110	0.48	81.5	3.14	<0.02	13.10	77.3	243	0.82	976	7.52
R3881		0.11	3.99	5.44	13.6	110	0.61	0.96	3.44	2.07	16.95	974	254	0.78	>10000	17.95
R3882		1.55	0.47	2.34	19.2	10	0.18	1.70	1.58	<0.02	7.41	24.9	138	0.80	72.1	3.90
R3883		0.96	1.34	5.91	69.3	20	0.61	12.20	2.31	0.03	16.25	84.0	726	2.05	166.0	12.25
R3884		1.37	0.06	6.50	8.4	60	0.51	0.15	4.08	<0.02	6.59	51.3	364	1.43	46.2	10.75
R3885		1.27	0.05	4.92	12.2	100	0.96	0.12	5.48	0.03	13.30	53.2	1370	3.89	76.1	11.40
R3886		1.68	0.87	6.30	9.3	50	0.62	2.37	1.51	0.02	25.3	10.4	26	0.10	77.8	1.56
R3887		1.86	0.30	6.29	7.4	30	0.60	0.53	1.10	<0.02	27.1	6.4	27	0.05	45.7	0.96
R3888		1.30	0.15	5.30	8.5	290	1.42	1.73	4.58	<0.02	12.55	35.5	498	2.39	118.5	8.55
R3889		0.84	2.34	7.92	16.8	390	0.26	0.15	6.53	2.55	9.38	44.1	300	0.22	161.0	6.73
R3890		1.31	0.19	7.61	8.6	960	0.34	0.12	5.33	0.45	8.89	44.0	169	0.38	26.6	7.66
R3891		1.06	1.07	7.40	32.4	580	0.25	0.17	5.83	1.94	8.21	54.9	154	0.13	151.0	6.78
R3892		1.01	0.17	7.44	8.1	100	0.33	0.10	7.72	0.82	17.20	48.3	44	0.26	101.5	8.25
R3893		0.91	0.14	7.41	6.2	190	0.41	0.06	10.55	0.14	24.4	40.4	119	0.60	103.5	5.85
R3894		1.05	0.09	7.30	8.3	130	0.42	0.06	9.67	0.07	22.0	42.1	230	0.72	131.5	5.85



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CERTIFICATE OF ANALYSIS SD21207351

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
R3855		15.80	0.06	1.8	0.065	0.29	14.5	50.3	4.10	1300	0.98	1.73	3.3	271	440	1.9
R3856		18.95	0.09	2.1	0.047	0.32	25.9	43.7	3.98	890	0.42	3.24	2.7	152.5	830	3.6
R3857		18.35	0.09	2.1	0.124	0.25	26.7	61.4	4.25	1220	0.36	2.73	3.1	131.0	880	4.9
R3858		14.50	0.06	0.9	0.070	0.24	4.2	96.1	8.87	1280	1.15	1.21	1.5	271	230	74.3
R3859		13.95	0.06	1.1	0.070	0.09	7.6	86.4	7.57	1180	0.93	1.25	2.2	235	290	78.8
R3860		12.85	0.05	0.8	0.072	0.09	8.0	88.1	7.60	1120	1.21	0.94	1.6	224	220	57.7
R3861		12.05	0.21	1.3	0.116	0.31	7.6	10.5	3.89	975	5.31	1.17	5.4	>10000	450	13.5
R3862		10.10	0.16	0.5	0.235	0.07	188.5	40.1	6.68	1160	0.35	0.57	0.8	674	160	23.0
R3863		8.37	<0.05	0.5	0.034	0.05	4.1	82.4	13.40	1580	0.48	0.12	0.8	728	140	39.9
R3864		8.94	<0.05	0.6	0.039	0.12	3.9	58.0	12.95	1460	0.18	0.23	0.7	693	160	115.0
R3865		18.85	0.08	2.6	0.071	1.19	15.7	41.5	4.02	1380	2.25	1.97	9.5	59.4	630	436
R3866		14.20	<0.05	2.0	0.025	0.08	6.7	4.7	0.42	99	2.81	4.83	2.5	9.5	540	139.0
R3867		19.50	0.06	3.6	0.088	0.46	14.5	37.3	2.11	228	92.4	5.34	6.1	46.9	630	58.2
R3868		20.3	0.10	3.8	0.109	3.94	19.3	75.8	3.15	333	4.03	0.88	7.0	103.0	1030	335
R3869		17.70	0.08	3.3	0.077	3.71	10.8	86.8	3.37	308	11.40	0.70	6.4	136.5	1030	192.5
R3870		17.80	0.11	3.9	0.071	4.63	20.2	55.0	2.46	245	2.23	0.47	6.6	72.7	770	78.1
R3871		16.70	0.12	4.6	0.025	5.55	23.2	31.7	1.54	141	2.91	0.26	6.8	35.9	700	50.5
R3872		17.75	0.06	1.6	0.033	0.42	9.9	34.4	4.49	872	0.74	2.98	1.9	122.5	420	2.2
R3873		8.79	0.06	0.2	0.291	0.02	12.5	41.9	2.59	2920	1.31	0.03	0.4	190.5	70	1.8
R3874		4.25	0.07	0.2	0.376	0.01	16.9	24.2	1.69	3430	0.52	0.02	0.2	113.0	50	1.0
R3875		0.33	<0.05	<0.1	<0.005	0.01	1.1	2.1	3.51	141	0.10	0.03	0.1	1.4	60	0.6
R3876		10.95	<0.05	0.4	0.079	0.01	14.0	40.4	5.61	2140	1.10	0.06	1.0	478	70	9.7
R3877		10.45	<0.05	0.7	0.099	0.01	6.5	18.5	9.76	1740	0.79	0.05	1.2	662	170	1330
R3878		12.10	<0.05	0.9	0.051	0.21	5.6	27.9	5.92	998	1.61	2.09	1.2	147.0	200	4.9
R3879		13.00	<0.05	1.0	0.182	0.30	6.2	22.1	3.02	701	1.16	2.85	1.1	71.8	230	17.8
R3880		11.95	0.05	0.9	0.201	0.25	6.0	24.6	2.87	694	1.53	2.49	1.0	109.5	220	37.7
R3881		12.40	0.21	1.2	0.121	0.31	7.7	10.0	3.92	976	5.23	1.18	5.4	>10000	440	14.1
R3882		5.72	<0.05	0.4	0.031	0.05	3.4	19.9	1.98	405	3.72	0.77	0.5	70.0	120	12.2
R3883		15.50	0.10	0.8	0.141	0.07	8.0	85.9	7.85	1300	20.4	0.86	1.5	201	180	31.7
R3884		13.30	0.07	0.9	0.124	0.24	2.8	43.0	6.85	1200	2.36	2.26	1.2	179.5	170	10.3
R3885		12.50	0.05	1.1	0.123	0.30	6.3	68.7	7.58	1580	1.80	1.05	2.1	188.5	230	21.3
R3886		12.40	0.05	2.1	0.068	0.07	13.1	6.6	0.71	272	16.60	4.74	1.4	25.2	380	122.0
R3887		11.05	<0.05	2.3	0.038	0.06	13.9	3.5	0.34	158	45.4	5.11	1.5	13.2	560	28.2
R3888		10.35	0.06	0.6	0.241	0.68	5.4	49.1	3.99	1060	7.31	1.41	1.0	101.5	180	1.7
R3889		13.20	0.05	0.8	0.042	0.70	4.0	42.5	4.69	1970	0.69	2.92	1.4	87.1	220	1765
R3890		15.95	0.06	0.7	0.066	0.92	3.5	75.1	4.68	2340	0.55	2.82	1.4	79.8	220	47.8
R3891		13.70	0.05	0.7	0.101	0.88	3.1	47.3	4.53	2180	0.45	3.20	1.5	108.0	230	120.0
R3892		18.05	0.05	1.8	0.075	0.75	8.6	34.6	3.69	1280	0.57	2.16	2.9	83.1	310	64.5
R3893		13.95	0.07	1.0	0.051	1.28	10.2	34.4	4.21	1220	0.30	1.70	1.5	114.5	870	29.5
R3894		13.20	0.08	1.0	0.082	1.14	8.6	40.7	5.06	1270	0.29	1.59	1.6	149.0	160	24.5



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CERTIFICATE OF ANALYSIS SD21207351

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		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
R3855		9.3	<0.002	0.07	0.14	27.2	1	0.7	98.3	0.22	<0.05	2.22	0.439	0.07	0.8	187
R3856		7.0	<0.002	0.23	0.13	18.4	<1	0.7	323	0.14	<0.05	3.55	0.406	0.03	0.8	127
R3857		6.1	<0.002	0.15	0.10	18.7	1	0.7	281	0.16	<0.05	3.15	0.378	0.03	0.8	125
R3858		6.5	<0.002	1.08	0.70	27.9	1	0.4	38.3	0.09	0.10	0.50	0.375	0.05	0.5	197
R3859		3.0	<0.002	0.48	0.57	31.3	2	0.5	45.3	0.12	0.07	2.09	0.362	0.02	0.8	187
R3860		3.0	0.002	0.40	0.48	28.6	1	0.4	44.5	0.09	0.05	0.53	0.315	0.02	0.6	165
R3861		11.6	0.048	7.98	3.38	9.4	21	2.8	181.0	0.30	4.51	1.08	0.518	0.17	0.4	77
R3862		1.1	<0.002	0.66	0.42	16.4	2	1.2	62.7	<0.05	0.08	0.62	0.150	<0.02	2.1	100
R3863		3.5	<0.002	0.28	0.21	20.0	1	0.2	19.5	<0.05	<0.05	0.20	0.187	0.03	0.2	112
R3864		6.2	0.002	0.20	0.15	21.1	1	0.3	22.1	<0.05	<0.05	0.18	0.191	0.04	0.4	116
R3865		48.2	0.002	0.10	0.10	40.2	1	0.8	192.0	0.51	<0.05	2.50	0.730	0.30	1.6	292
R3866		1.0	<0.002	0.25	0.18	2.5	<1	0.5	159.0	0.10	<0.05	5.43	0.095	<0.02	0.8	16
R3867		10.4	0.007	1.08	0.14	11.4	2	1.2	120.5	0.45	0.14	2.72	0.316	0.10	1.8	92
R3868		74.0	0.002	1.70	0.22	15.5	2	1.9	55.9	0.40	4.92	1.98	0.421	0.29	0.6	110
R3869		64.9	<0.002	1.25	0.31	15.1	1	1.9	43.0	0.35	0.59	1.77	0.398	0.22	0.6	112
R3870		85.2	0.002	2.62	0.16	12.4	4	1.1	40.1	0.40	0.57	2.64	0.343	0.34	0.8	81
R3871		91.6	0.003	1.18	0.12	9.1	4	0.5	47.0	0.44	0.22	3.00	0.323	0.35	0.9	58
R3872		7.7	<0.002	0.27	0.07	19.6	1	0.5	247	0.11	<0.05	1.27	0.308	0.05	0.4	127
R3873		0.7	<0.002	0.05	0.19	14.4	<1	0.2	53.5	<0.05	<0.05	0.24	0.063	<0.02	0.2	70
R3874		0.3	<0.002	0.21	0.15	13.0	1	<0.2	69.6	<0.05	<0.05	0.21	0.049	<0.02	0.1	44
R3875		0.2	<0.002	<0.01	0.08	0.2	1	<0.2	70.7	<0.05	<0.05	0.06	0.005	<0.02	0.2	1
R3876		1.0	<0.002	0.18	0.44	12.8	1	0.4	49.7	<0.05	0.05	0.40	0.098	<0.02	0.2	74
R3877		0.4	<0.002	0.85	0.23	13.8	2	0.4	35.4	0.06	0.09	0.24	0.198	<0.02	0.2	84
R3878		5.8	<0.002	0.02	0.17	30.5	1	0.3	121.5	0.06	<0.05	0.67	0.253	0.03	0.3	148
R3879		8.6	<0.002	0.19	0.29	18.9	1	0.4	134.0	0.06	0.07	1.01	0.197	0.03	0.4	103
R3880		7.9	<0.002	0.44	0.45	18.4	2	0.3	116.0	0.05	0.16	1.04	0.175	0.03	0.5	126
R3881		11.7	0.051	8.04	3.06	9.5	22	2.6	183.0	0.30	4.16	1.11	0.517	0.18	0.4	77
R3882		2.9	0.002	0.07	0.14	8.6	<1	0.2	16.6	<0.05	<0.05	0.45	0.097	0.02	0.1	51
R3883		3.9	0.007	0.04	0.34	33.8	<1	0.4	15.9	0.07	<0.05	0.27	0.287	0.02	0.2	155
R3884		7.6	0.002	0.01	0.26	31.5	<1	0.6	40.6	0.08	<0.05	0.26	0.281	0.03	0.1	173
R3885		17.5	0.002	0.03	0.89	39.8	1	0.8	69.3	0.13	<0.05	0.51	0.341	0.11	0.2	200
R3886		1.2	0.006	0.02	0.20	3.0	<1	0.3	230	0.09	<0.05	2.02	0.108	0.02	0.6	25
R3887		0.8	0.017	0.01	0.11	1.7	<1	0.4	183.5	0.10	0.13	2.13	0.092	0.02	0.6	10
R3888		21.3	0.004	0.01	0.81	24.6	<1	0.7	36.4	0.06	<0.05	0.21	0.235	0.06	0.1	130
R3889		21.5	0.002	0.09	0.68	35.3	1	0.4	365	0.08	<0.05	0.31	0.356	0.10	0.1	180
R3890		25.6	<0.002	0.02	0.77	31.2	1	0.5	248	0.09	<0.05	0.25	0.339	0.13	0.2	188
R3891		16.7	<0.002	0.09	1.11	36.7	1	0.5	236	0.09	<0.05	0.31	0.358	0.08	0.2	172
R3892		37.7	0.002	0.10	0.28	40.4	1	0.7	258	0.19	<0.05	1.96	0.450	0.17	0.8	256
R3893		68.3	<0.002	0.06	0.36	35.9	1	0.4	120.0	0.10	<0.05	1.15	0.258	0.30	0.5	177
R3894		57.0	<0.002	0.06	0.62	40.4	1	0.5	107.0	0.12	<0.05	1.10	0.279	0.25	0.6	188



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		W	Y	Zn	Zr	Ag	Co	Cu	Ni	Au	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	%	%
		0.1	0.1	2	0.5	1	0.0005	0.001	0.001	0.001	0.01	0.01
R3855		0.4	17.8	113	65.2					<0.001	78.8	92.6
R3856		0.6	13.6	86	84.0					0.008		89.8
R3857		0.5	21.4	79	83.7					0.001		
R3858		0.2	14.8	309	33.3					0.001		
R3859		0.2	14.6	260	45.2					<0.001		
R3860		0.2	13.2	292	32.3					0.001		
R3861		2.1	10.2	134	51.7			1.620	4.62	0.218		
R3862		0.1	16.5	196	18.8					0.001		
R3863		0.2	7.4	227	20.2					0.001		
R3864		0.1	7.6	246	22.2					<0.001		
R3865		0.2	22.1	158	100.5					<0.001		
R3866		1.3	5.8	26	74.0					0.001		
R3867		0.7	9.3	65	141.0					0.009		
R3868		0.8	15.2	67	158.0					0.406		
R3869		0.7	10.5	62	140.0					0.006		
R3870		0.6	14.0	74	161.5					0.009		
R3871		0.6	12.5	52	185.0					0.001		
R3872		0.3	11.5	93	61.9					0.001		
R3873		0.3	32.9	36	9.3					0.049		
R3874		0.3	39.2	26	5.5					0.013		
R3875		<0.1	2.3	5	1.5					<0.001		
R3876		0.5	7.0	55	12.7					<0.001		
R3877		0.4	6.3	1340	27.3					0.003		
R3878		0.1	10.1	92	38.7					<0.001		
R3879		0.2	10.6	75	37.3					0.019		
R3880		0.6	12.3	75	33.6					0.053		
R3881		2.3	10.3	137	52.8			1.640	4.64	0.226		
R3882		0.2	4.8	57	15.0					<0.001		
R3883		0.6	10.2	250	25.7					0.004		
R3884		0.3	12.5	137	32.1					0.015		
R3885		0.4	15.7	171	37.5					0.241		
R3886		2.2	4.1	24	78.2					0.012		
R3887		4.3	3.9	30	84.2					0.012		
R3888		0.4	10.8	97	22.1					0.001		
R3889		0.3	12.7	714	22.5					0.001		
R3890		0.3	11.3	297	22.1					0.001		
R3891		0.3	10.9	548	22.6					0.001		
R3892		0.3	20.4	277	64.3					0.001		
R3893		0.2	19.1	78	37.6					0.002		89.3
R3894		0.2	25.0	60	38.6					0.006	74.8	90.3



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CERTIFICATE OF ANALYSIS SD21207351

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
R3895		1.33	0.33	7.91	57.1	230	0.79	0.07	3.61	0.14	7.36	42.2	244	3.47	142.0	6.43
R3896		1.39	0.71	6.21	45.5	110	1.08	0.05	2.31	0.18	13.35	34.1	266	4.65	355	7.13
R3897		0.95	0.72	7.43	87.4	160	0.22	0.04	7.85	0.12	8.08	48.8	297	0.70	104.0	6.13
R3898		2.29	>100	6.74	179.5	130	0.51	0.32	7.30	0.72	10.70	67.6	298	1.49	270	6.70
R3899		0.86	1.45	7.45	74.8	120	0.58	0.27	7.74	0.15	13.10	58.4	290	1.02	103.0	5.99
R3900		1.08	1.44	7.51	60.1	120	0.50	0.18	7.92	0.14	12.60	52.5	301	1.00	104.5	6.06
R3901		0.12	4.15	5.59	16.0	120	0.63	0.96	3.56	2.11	16.95	1000	276	0.81	>10000	18.40
R3902		0.77	0.11	7.20	16.7	80	0.68	0.10	11.30	0.30	36.1	44.3	254	0.99	136.5	5.25
R3903		1.14	0.36	7.77	10.4	130	0.44	0.20	8.09	0.16	12.80	44.5	238	0.65	149.5	6.13
R3904		1.86	0.25	6.71	125.0	110	0.66	0.58	9.08	0.14	36.1	90.8	17	0.96	165.0	7.57
R3905		1.41	0.15	7.91	34.2	100	0.60	0.16	8.38	0.06	20.1	52.0	82	0.98	172.5	6.39
R3906		1.36	0.20	8.02	23.0	100	0.67	0.17	7.42	0.10	18.50	46.0	118	1.35	157.0	6.12
R3907		1.70	0.22	6.50	71.2	80	0.41	0.03	4.84	0.32	7.94	46.5	219	6.10	102.5	6.62
R3908		0.99	0.13	6.49	78.4	90	0.58	0.02	2.70	0.17	7.48	43.5	260	7.12	5.6	7.05
R3909		1.07	0.16	7.33	37.7	260	0.50	0.08	5.84	0.25	8.26	51.0	263	1.64	125.0	6.96
R3910		2.14	0.21	7.51	16.7	290	0.37	0.04	6.28	0.27	9.16	50.9	273	1.66	94.8	6.56
R3911		1.50	0.11	6.71	14.3	240	0.29	0.03	6.67	0.25	8.58	48.0	229	3.01	85.2	6.04
R3912		2.02	0.12	7.42	21.3	190	0.53	0.03	4.72	0.42	8.48	52.2	266	4.03	116.0	6.46
R3913		1.96	0.14	6.66	6.9	140	0.60	0.05	5.65	0.33	8.93	47.2	214	5.11	240	6.36
R3914		1.66	0.09	7.24	1.5	190	0.35	0.05	5.44	0.14	8.69	49.4	251	3.88	71.5	6.43
R3915		2.29	0.09	7.25	1.2	170	0.35	0.03	4.78	0.09	8.72	50.0	258	4.89	61.3	6.69
R3916		2.04	0.12	7.09	5.9	150	0.38	0.05	6.29	0.08	10.40	49.2	225	3.48	78.1	6.46
R3917		1.73	0.15	7.21	37.3	190	0.63	0.07	5.98	0.10	10.30	52.2	229	3.29	134.5	6.84
R3918		1.31	0.16	6.36	50.4	50	1.71	0.20	7.32	0.86	15.15	43.6	168	3.90	59.2	5.77
R3919		0.83	0.16	7.38	4.4	140	0.76	0.07	6.28	0.10	11.95	46.1	212	1.92	124.5	6.48
R3920		1.14	0.16	7.42	4.3	150	0.74	0.07	6.44	0.11	12.60	47.4	211	1.93	140.0	6.55
R3921		<0.02	0.75	7.08	2.6	250	1.07	0.06	5.57	0.84	36.8	>10000	166	0.70	1835	7.14
R3922		1.17	0.15	7.03	3.3	130	0.34	0.06	5.93	0.10	11.00	67.8	206	2.85	165.0	6.90
R3923		1.96	0.17	7.65	183.5	90	0.96	0.51	6.52	0.06	12.25	135.5	202	1.57	51.6	5.57
R3924		1.98	4.23	7.99	614	30	1.64	23.0	2.89	<0.02	8.19	415	232	2.28	1370	7.11
R3925		0.53	0.01	0.10	3.5	10	0.07	0.09	32.3	<0.02	1.03	3.7	3	<0.05	2.8	0.15
R3926		2.15	0.18	7.04	13.5	200	0.80	0.24	6.68	0.13	12.25	49.1	189	2.02	138.5	6.38
R3927		1.88	0.22	6.67	27.7	160	0.71	0.11	5.48	1.48	12.55	48.7	168	3.87	109.5	6.76
R3928		1.95	0.14	7.56	10.1	270	0.85	0.08	5.98	0.11	11.80	48.7	193	2.87	119.5	6.54
R3929		1.36	0.20	6.60	293	90	1.65	1.35	4.12	0.03	13.20	178.5	168	5.19	97.7	7.31
R3930		1.75	0.08	6.10	51.3	120	0.94	0.10	3.14	0.03	10.40	62.7	187	5.69	54.2	7.88
R3931		0.97	0.22	6.65	42.5	170	0.54	0.13	5.44	1.19	10.55	53.1	160	3.54	85.4	7.06
R3932		1.11	0.22	7.08	28.7	230	0.49	0.09	4.91	1.56	19.45	53.3	169	3.12	111.5	7.46



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CERTIFICATE OF ANALYSIS SD21207351

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		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
R3895		14.30	0.06	0.9	0.065	1.28	3.2	110.5	6.57	1390	0.21	2.07	1.5	152.5	150	250
R3896		11.75	0.08	0.7	0.119	0.56	6.5	145.0	7.37	1280	0.30	1.79	1.1	144.5	110	172.0
R3897		13.05	0.05	0.9	0.037	1.18	3.7	27.4	5.96	1320	0.53	1.09	1.4	181.0	150	16.9
R3898		13.30	0.06	0.9	0.055	1.04	5.1	46.6	6.36	1460	0.49	1.73	1.3	190.5	140	236
R3899		14.45	0.06	0.9	0.049	1.19	6.2	36.0	5.41	1140	0.61	1.49	1.3	169.0	130	58.1
R3900		14.10	0.06	0.9	0.047	1.19	5.7	35.8	5.60	1160	0.45	1.46	1.3	171.5	130	77.7
R3901		12.15	0.23	1.3	0.124	0.32	7.7	10.5	4.06	1000	5.51	1.21	5.5	>10000	460	13.7
R3902		12.80	0.08	0.8	0.125	1.16	14.5	33.4	4.56	1740	0.25	1.51	1.3	167.0	130	85.2
R3903		14.10	0.06	1.4	0.052	1.05	5.4	29.5	4.74	1160	0.41	1.47	2.0	130.5	200	10.6
R3904		16.40	0.09	1.4	0.139	0.82	14.5	34.9	3.70	1370	0.80	1.81	2.3	79.7	260	221
R3905		14.35	0.06	0.9	0.074	1.00	8.5	36.1	5.26	1360	0.47	1.54	1.2	144.0	120	108.0
R3906		14.15	0.07	0.8	0.096	1.11	7.6	45.3	5.49	1440	0.37	1.78	1.3	156.0	140	47.7
R3907		11.70	0.05	0.7	0.035	0.56	3.6	122.0	8.38	1560	0.26	1.98	1.2	213	120	859
R3908		11.40	0.08	0.8	0.040	0.61	3.1	157.5	8.94	1540	0.27	2.17	1.3	210	140	977
R3909		12.65	0.07	0.9	0.060	1.69	3.6	73.4	6.80	1340	0.96	1.42	1.5	211	170	99.4
R3910		13.05	0.07	1.0	0.046	2.13	4.1	50.3	6.34	1410	0.51	1.29	1.6	209	160	104.0
R3911		11.70	0.06	0.9	0.038	1.68	3.9	62.4	6.53	1460	0.20	1.25	1.4	189.0	140	153.5
R3912		12.60	0.07	0.9	0.048	1.50	4.0	98.3	7.16	1330	0.22	1.60	1.5	204	160	395
R3913		11.40	0.05	0.9	0.042	1.28	4.1	127.5	6.77	1400	0.22	1.34	1.3	183.0	150	114.0
R3914		12.55	0.06	1.0	0.042	1.83	4.0	90.8	6.62	1280	0.38	1.38	1.6	199.5	170	248
R3915		12.60	0.07	1.0	0.035	1.78	3.9	104.5	7.04	1240	0.23	1.38	1.6	195.0	170	409
R3916		12.85	0.07	1.0	0.042	1.60	4.7	89.6	6.43	1350	0.33	1.43	1.6	188.5	170	854
R3917		12.90	0.07	1.1	0.055	1.72	4.6	76.2	6.82	1390	0.24	1.55	1.7	204	180	58.8
R3918		12.00	0.10	1.0	0.147	0.66	7.4	107.5	4.86	1380	0.57	1.81	1.5	158.5	170	175.0
R3919		13.80	0.12	1.2	0.054	1.84	5.7	48.2	5.36	1320	0.35	1.50	1.8	181.0	200	8.4
R3920		14.30	0.11	1.2	0.053	1.93	6.1	48.7	5.40	1340	0.34	1.50	1.9	185.5	200	8.5
R3921		19.35	0.12	3.4	0.068	0.67	18.2	7.4	3.65	940	2.75	2.17	21.8	>10000	1410	18.3
R3922		13.10	0.07	1.1	0.047	1.78	5.1	70.7	6.19	1340	0.44	1.15	1.8	199.5	190	130.5
R3923		14.50	0.09	1.3	0.071	1.06	6.2	65.2	4.29	1060	1.45	2.65	1.9	175.0	210	17.9
R3924		19.45	0.09	1.3	0.189	0.22	3.8	134.0	5.44	819	158.0	3.03	2.0	233	210	28.2
R3925		0.34	<0.05	<0.1	<0.005	0.01	1.2	2.0	1.87	142	0.57	0.04	0.1	3.5	60	0.7
R3926		13.35	0.06	1.2	0.055	1.80	6.0	43.6	5.03	1290	1.00	1.35	1.9	190.0	200	6.7
R3927		12.60	0.08	1.1	0.061	1.35	5.7	114.0	6.17	1380	0.32	1.30	1.7	179.0	190	280
R3928		14.00	0.08	1.2	0.050	1.91	5.8	67.6	5.36	1290	0.31	1.43	1.8	202	210	9.3
R3929		13.30	0.15	1.2	0.089	0.77	5.8	166.0	7.06	1340	2.35	1.49	1.7	270	180	33.9
R3930		13.50	0.16	1.1	0.078	1.02	5.0	154.5	8.37	1140	0.54	1.21	1.7	203	180	69.2
R3931		13.30	0.09	1.3	0.070	1.58	4.8	85.1	6.90	1400	0.37	1.17	1.9	198.5	190	663
R3932		14.00	0.10	1.3	0.058	1.77	9.7	75.8	6.75	1780	0.34	1.28	2.0	212	220	202



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		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
R3895		47.3	<0.002	0.04	0.76	30.9	1	0.4	107.0	0.10	<0.05	0.79	0.239	0.30	0.3	183
R3896		27.5	<0.002	0.05	0.59	28.0	1	0.3	52.3	0.07	<0.05	0.61	0.185	0.15	0.2	152
R3897		50.2	<0.002	0.04	4.97	37.2	1	0.4	114.0	0.10	<0.05	0.87	0.244	0.26	0.3	184
R3898		54.3	<0.002	0.07	14.35	39.5	1	0.4	83.1	0.09	<0.05	0.95	0.239	0.24	0.4	184
R3899		55.7	<0.002	0.05	4.07	37.2	1	0.4	103.0	0.09	<0.05	0.82	0.227	0.24	0.4	176
R3900		54.6	<0.002	0.05	4.21	37.5	<1	0.4	106.0	0.09	<0.05	0.82	0.229	0.24	0.4	180
R3901		12.1	0.050	8.20	2.95	9.5	22	2.6	191.0	0.31	4.45	1.14	0.529	0.17	0.4	80
R3902		59.3	<0.002	0.08	0.83	38.7	1	0.4	93.4	0.09	<0.05	0.96	0.215	0.18	0.4	162
R3903		48.5	<0.002	0.08	0.60	36.7	1	0.5	113.5	0.14	<0.05	1.73	0.291	0.21	0.6	190
R3904		43.9	0.003	0.07	3.45	44.8	1	0.5	102.0	0.16	<0.05	1.60	0.370	0.21	0.8	233
R3905		46.4	<0.002	0.06	0.50	36.2	1	0.4	99.0	0.08	<0.05	1.40	0.214	0.20	0.5	169
R3906		48.0	<0.002	0.04	0.81	32.9	1	0.4	96.7	0.09	<0.05	0.83	0.223	0.22	0.4	161
R3907		29.6	<0.002	0.03	0.69	30.1	1	0.3	67.4	0.08	<0.05	0.80	0.199	0.12	0.3	146
R3908		28.5	<0.002	0.02	0.77	29.3	1	0.4	66.2	0.09	<0.05	0.84	0.216	0.14	0.3	158
R3909		78.9	<0.002	0.04	0.45	33.4	1	0.7	103.5	0.10	<0.05	0.97	0.243	0.30	0.4	173
R3910		89.1	0.002	0.04	0.56	34.0	1	0.5	138.5	0.11	<0.05	0.98	0.258	0.41	0.4	180
R3911		75.1	<0.002	0.04	0.88	31.8	<1	0.4	123.0	0.09	<0.05	0.89	0.224	0.36	0.3	157
R3912		66.5	<0.002	0.05	0.92	33.7	<1	0.4	111.5	0.10	<0.05	1.01	0.257	0.33	0.3	179
R3913		56.4	<0.002	0.06	0.47	31.1	1	0.4	91.1	0.09	<0.05	0.92	0.234	0.25	0.3	161
R3914		71.9	<0.002	0.06	0.50	32.8	1	0.4	109.5	0.11	<0.05	0.98	0.268	0.33	0.4	181
R3915		72.6	<0.002	0.06	0.43	33.2	<1	0.4	108.5	0.11	<0.05	1.01	0.264	0.33	0.4	185
R3916		62.8	<0.002	0.06	0.23	34.1	1	0.4	109.5	0.11	<0.05	1.04	0.259	0.30	0.4	179
R3917		74.3	<0.002	0.04	0.46	37.0	1	0.6	124.5	0.12	<0.05	1.15	0.275	0.31	0.4	187
R3918		32.6	<0.002	0.05	0.44	30.1	<1	0.5	76.0	0.11	<0.05	1.11	0.241	0.13	0.4	165
R3919		75.5	<0.002	0.06	0.36	33.5	1	0.5	113.5	0.13	<0.05	1.35	0.296	0.37	0.4	193
R3920		77.0	<0.002	0.06	0.32	34.8	<1	0.5	117.5	0.13	<0.05	1.33	0.300	0.38	0.4	198
R3921		21.0	<0.002	2.53	2.10	17.5	1	1.5	414	1.24	<0.05	2.69	0.988	0.10	0.7	143
R3922		79.8	0.002	0.06	0.45	31.9	<1	0.5	99.8	0.13	<0.05	1.28	0.283	0.35	0.4	182
R3923		43.3	0.003	0.04	0.41	30.1	1	0.7	72.2	0.14	<0.05	1.44	0.306	0.20	0.8	210
R3924		5.2	0.205	0.19	0.59	27.1	1	0.9	31.3	0.15	0.24	1.27	0.321	0.35	1.5	393
R3925		0.2	<0.002	<0.01	0.08	0.3	1	<0.2	82.5	<0.05	<0.05	0.07	0.006	<0.02	0.1	4
R3926		74.2	0.002	0.07	0.34	31.9	1	0.6	122.0	0.14	<0.05	1.37	0.308	0.36	0.4	194
R3927		60.5	<0.002	0.07	0.62	31.1	<1	0.5	102.0	0.12	<0.05	1.25	0.280	0.24	0.4	179
R3928		81.9	<0.002	0.06	0.58	34.0	1	0.6	135.5	0.13	<0.05	1.35	0.311	0.38	0.4	201
R3929		39.8	0.022	0.03	1.27	32.6	1	0.6	66.5	0.13	<0.05	1.26	0.278	0.15	0.5	178
R3930		45.4	<0.002	0.03	0.59	29.5	1	0.6	68.4	0.13	<0.05	1.15	0.268	0.18	0.5	185
R3931		71.6	0.002	0.06	0.81	30.5	1	0.6	102.0	0.14	<0.05	1.49	0.281	0.35	0.5	181
R3932		82.1	0.002	0.07	1.02	32.1	1	0.6	115.5	0.14	<0.05	1.54	0.307	0.38	0.6	194



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To: NORTH AMERICAN COBALT – BATTERY
 MINERALS RESOURCES
 THE PACIFIC BUILDING
 SUITE 400, 744 WEST HASTINGS STREET
 VANCOUVER BC V6C 1A5

Page: 3 – D
 Total # Pages: 3 (A – D)
 Plus Appendix Pages
 Finalized Date: 27-AUG-2021
 Account: BMRPLLBW

Project: Gowganda Transition – GE21-002

CERTIFICATE OF ANALYSIS SD21207351

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Co-OG62	Cu-OG62	Ni-OG62	Au-ICP21	CRU-QC	PUL-QC
		W	Y	Zn	Zr	Ag	Co	Cu	Ni	Au	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	%	%
		0.1	0.1	2	0.5	1	0.0005	0.001	0.001	0.001	0.01	0.01
R3895		0.2	9.7	186	32.3					0.009		
R3896		0.3	8.5	246	25.7					0.007		
R3897		0.2	10.4	79	33.3					0.005		
R3898		0.2	11.8	322	33.1	430				0.006		
R3899		0.2	14.0	85	32.4					<0.001		
R3900		0.2	13.5	85	32.0					<0.001		
R3901		2.7	10.3	140	53.5			1.635	4.65	0.214		
R3902		0.2	33.9	148	31.9					0.001		
R3903		0.2	13.8	77	49.6					0.004		
R3904		0.3	42.5	93	52.0					0.001	79.0	
R3905		0.2	15.8	58	34.2					<0.001		
R3906		0.2	16.4	99	30.3					0.003		
R3907		0.2	9.1	237	27.5					0.001		
R3908		0.2	8.8	195	29.8					0.001		
R3909		0.2	10.5	130	35.3					0.001		
R3910		0.2	10.9	140	35.9					0.001		
R3911		0.2	10.1	136	31.1					0.001		
R3912		0.2	10.0	225	34.4					0.001		
R3913		0.2	10.1	204	31.7					0.001		
R3914		0.2	10.4	139	36.2					<0.001		
R3915		0.2	10.8	146	36.5					0.001		
R3916		0.2	11.7	114	36.4					0.001		
R3917		0.2	12.1	112	39.4					<0.001		
R3918		0.2	14.2	305	37.9					0.002		
R3919		0.3	12.7	94	43.1					0.002		
R3920		0.2	13.4	93	43.6					0.002		
R3921		1.7	21.1	122	140.5		2.04		2.23	NSS		
R3922		0.2	12.7	104	41.4					0.001		
R3923		0.4	11.6	74	45.4					0.002		
R3924		0.4	8.2	80	47.8					0.020		
R3925		<0.1	2.2	3	1.8					<0.001		
R3926		0.3	12.5	89	43.4					0.001		
R3927		0.3	12.7	532	40.7					0.001		
R3928		0.2	12.7	100	43.5					0.001		
R3929		0.2	12.7	104	41.5					0.004		
R3930		0.2	11.7	120	40.1					0.001		
R3931		0.3	12.4	465	47.8					0.001		
R3932		0.3	13.8	603	48.0					0.005		



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Page: Appendix 1
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 Finalized Date: 27-AUG-2021
 Account: BMRPLBW

Project: Gowganda Transition – GE21-002

CERTIFICATE OF ANALYSIS SD21207351

CERTIFICATE COMMENTS									
	ANALYTICAL COMMENTS								
Applies to Method:	NSS is non-sufficient sample. ALL METHODS								
Applies to Method:	REEs 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. <table border="0" style="width: 100%;"> <tr> <td>CRU-31</td> <td>CRU-QC</td> <td>LOG-22</td> <td>LOG-24</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	LOG-24	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-22	LOG-24						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. <table border="0" style="width: 100%;"> <tr> <td>Ag-OG62</td> <td>Au-ICP21</td> <td>Co-OG62</td> <td>Cu-OG62</td> </tr> <tr> <td>ME-MS61</td> <td>ME-OG62</td> <td>Ni-OG62</td> <td></td> </tr> </table>	Ag-OG62	Au-ICP21	Co-OG62	Cu-OG62	ME-MS61	ME-OG62	Ni-OG62	
Ag-OG62	Au-ICP21	Co-OG62	Cu-OG62						
ME-MS61	ME-OG62	Ni-OG62							

6. APPENDIX

APPENDIX 1: MINING CLAIMS CELL LIST

APPENDIX 2: DRILL HOLE METADATA

APPENDIX 3: DRILL HOLE TEXT LOGS

APPENDIX 4: CERTIFICATES OF ANALYSES

APPENDIX 5: ASSAY DATA

APPENDIX 6: CROSS SECTION GRAPHIC LOGS AND ASSAYS

6. APPENDIX

APPENDIX 1: MINING CLAIMS CELL LIST

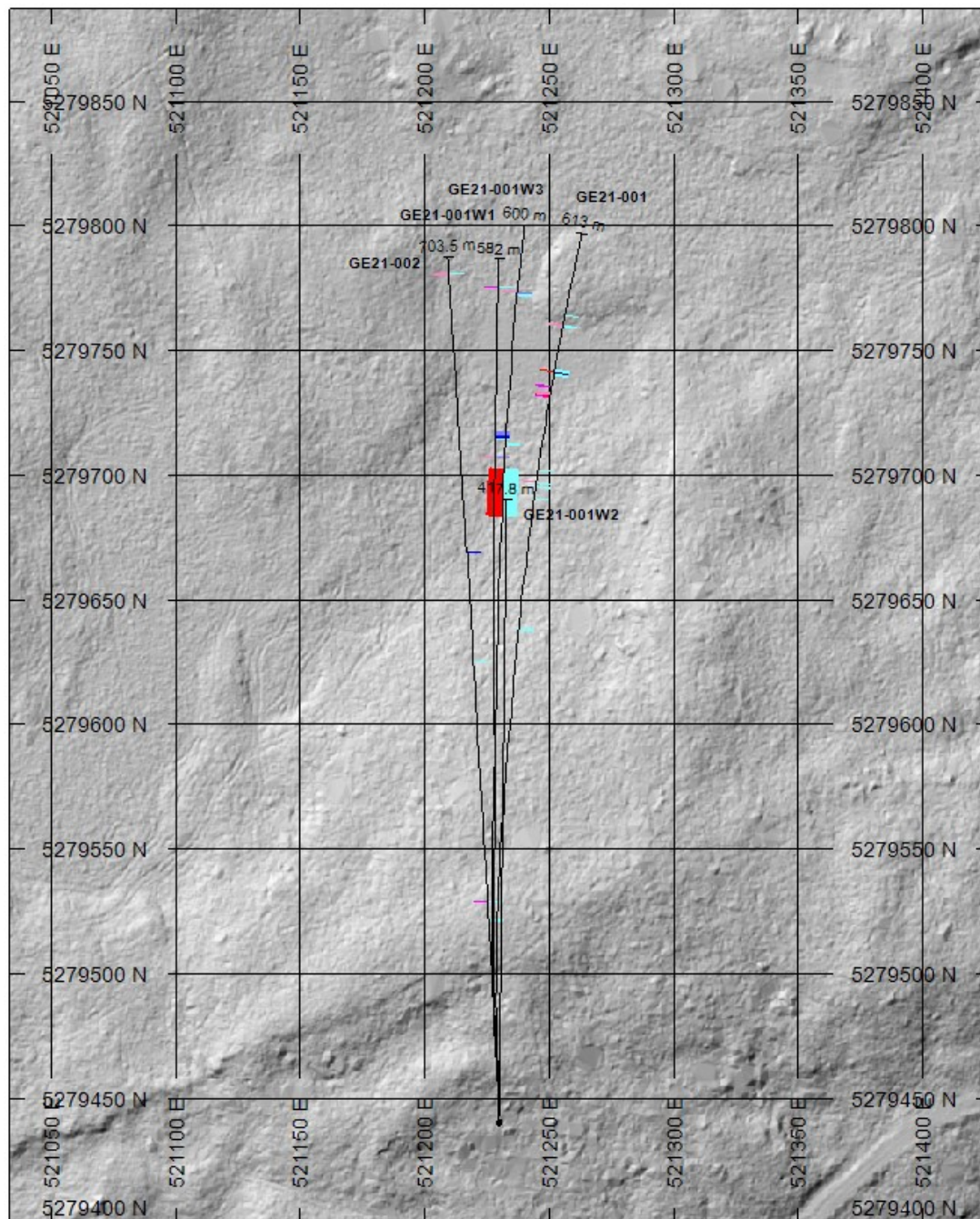
APPENDIX 2: DRILL HOLE METADATA

APPENDIX 3: DRILL HOLE TEXT LOGS

APPENDIX 4: CERTIFICATES OF ANALYSES

APPENDIX 5: ASSAY DATA





APPENDIX 6: CROSS SECTION GRAPHIC LOGS AND ASSAYS






HOLES PLOTTED

TOTAL 5

GE21-001 GE21-001W1 GE21-001W2 GE21-001W3
 GE21-002

NUMBER BANDS	L/R	PATTERN	RANGE
Ag_(ppm)	L		2 to 30
			30 to 300
			300 to 3000
			3000 to 30000

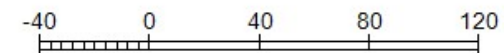
NUMBER BANDS	L/R	PATTERN	RANGE
Co_(ppm)	R		200 to 500
			500 to 1000
			1000 to 10000

PLAN SPECS:

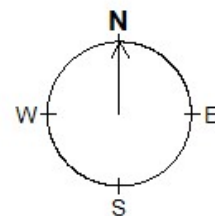
REF. PT. E, N 521200 m 5279000 m
 EXTENTS 394.2 m 487.5 m

SCALE 1 : 3000

(m)



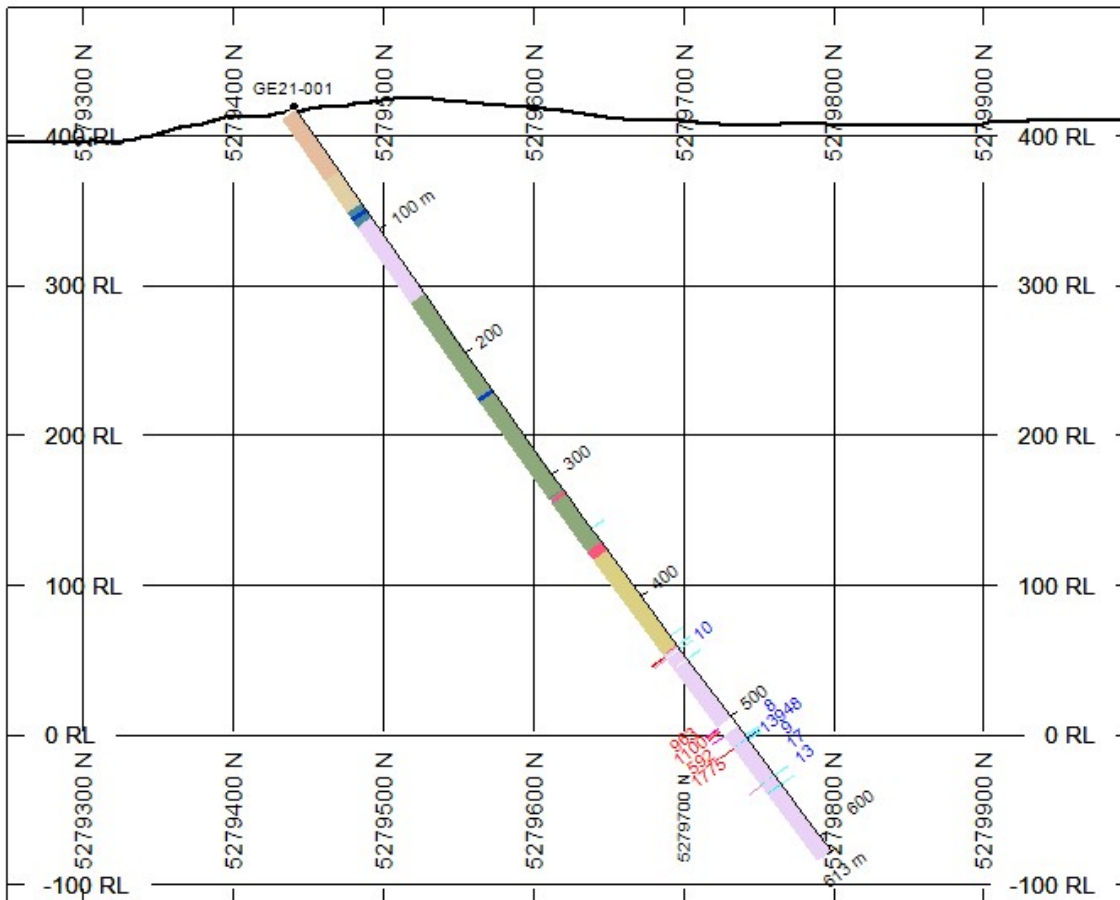
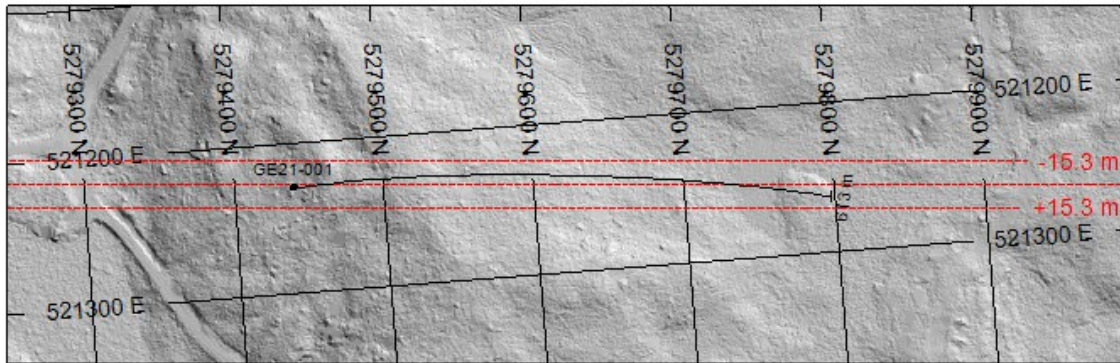
NAD83(2011) / UTM zone 17N



Battery Mineral Resources Corp.

Gowganda East - Transition

Diamond Drill Holes - Plan Map



HOLES PLOTTED

TOTAL 1
GE21-001

TOPOGRAPHY

— Topography.GRD

NUMBER BANDS	LR	PATTERN	RANGE
Ag_(ppm)	R		2 to 30 3000 to 30000

NUMBER BANDS	LR	PATTERN	RANGE
Co_(ppm)	L		200 to 500 500 to 1000 100 to 10000

ROCK CODES

Lithology

PAT	LABEL	PAT	LABEL
	Overburden		Felsic to Intermediate Tufts
	Siltstone		Lamprophyre
	Argillite		Porphyry Dyke
	Quartz-Carbonate Vein		Felsic Dyke
	Cobalt Vein		Mafic Dyke
	Silver Vein		Nipissing Diabase
	Intermediate Volcanics		Gabbro
	Mafic Volcanics		Fault
	Ultramafic Volcanics		

ASSAYS

Ag_(ppm)

Co_(ppm)

LR TEXT RANGE

R

L

Min 7

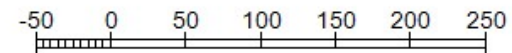
Min 500

SECTION SPECS:

REF. PT. E, N 521242 m 5279624 m
EXTENTS 750.2 m 599.1 m
SECTION TOP, BOT 485.6 m -113.5 m
TOLERANCE +/- 15.3 m

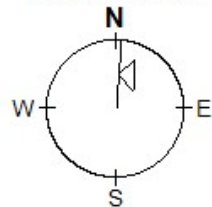
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(m)



NAD83(2011) / UTM zone 17N

AZIMUTH = 4.4°

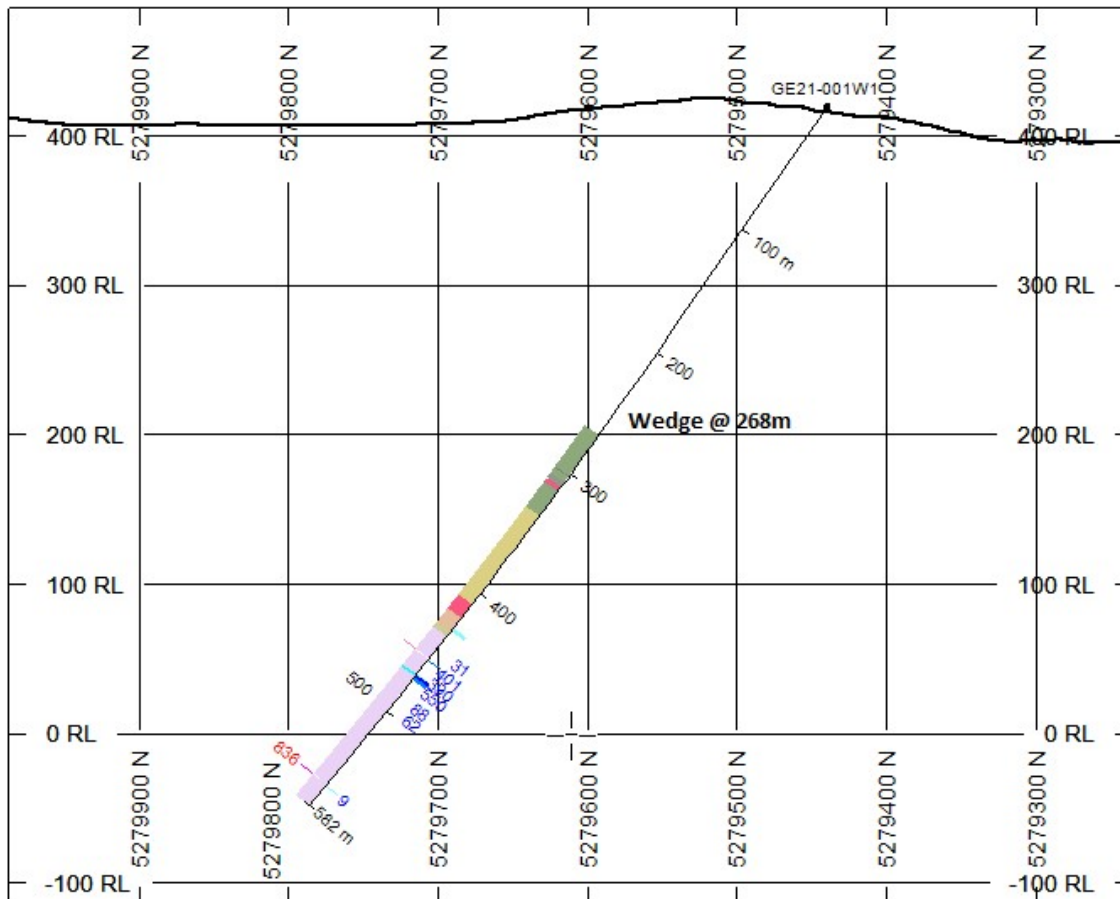
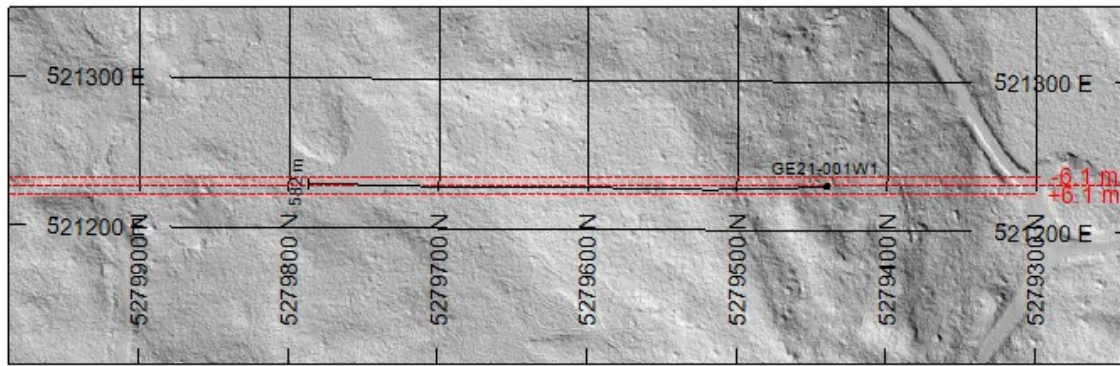


Battery Mineral Resource Corp.

Gowganda East - Transition

GE21-001

Azimuth: 358.07 Dip: -54.83



HOLES PLOTTED

TOTAL 1

GE21-001W1

TOPOGRAPHY

— Topography GRD

NUMBER BANDS	L/R	PATTERN	RANGE
Aq_(ppm)	R		2 to 30
			30 to 300
			300 to 3000

NUMBER BANDS	L/R	PATTERN	RANGE
Co_(ppm)	L		200 to 500
			500 to 1000

ROCK CODES	PAT	LABEL
Lithology		Siltstone
		Quartz-Carbonate Vein
		Carbonate Vein
		Silver Vein
		Intermediate Volcanics
		Mafic Volcanics
		Felsic to Intermediate Tuffs
		Mafic Tuff
		Lamprophyre
		Porphyr/Dyke
		Ni-plating Diabase
		Fault

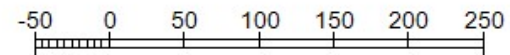
ASSAYS	L/R	TEXT	RANGE
Aq_(ppm)	R		Min 7
Co_(ppm)	L		Min 500

SECTION SPECS:

REF. PT. E, N 521229 m 5279612 m
 EXTENTS 750.2 m 599.1 m
 SECTION TOP, BOT 485.6 m -113.5 m
 TOLERANCE +/- 6.1 m

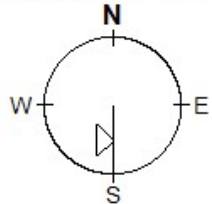
SCALE 1 : 5500

(m)



NAD83(2011) / UTM zone 17N

AZIMUTH = 179.6°

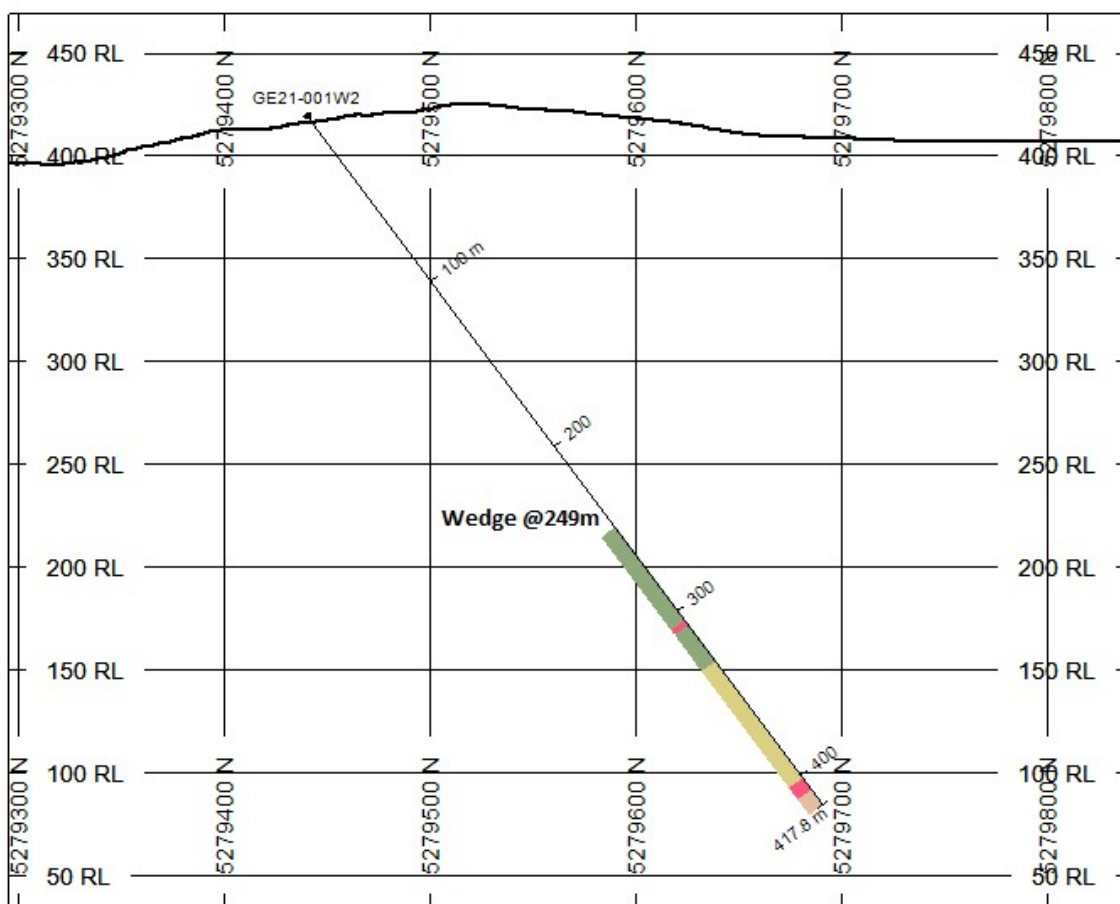
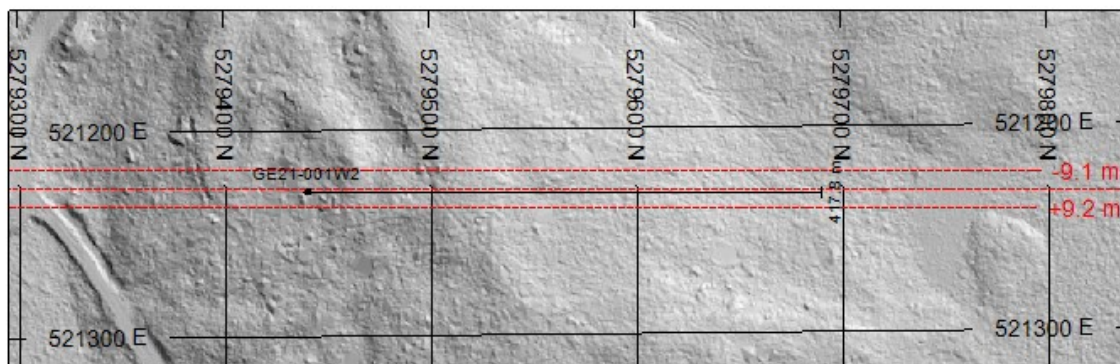


Battery Mineral Resource Corp.

Gowganda East - Transition

GE21-001W1

Azimuth: 357.82 Dip: -54.14



HOLES PLOTTED

TOTAL 1
GE21-001W2

TOPOGRAPHY

— Topography.GRD

ROCK CODES

Lithology

PAT LABEL

- Siltstone
- Mafic Volcanics
- Felsic to Intermediate Tuffs
- Lamprophyre
- Porphyry Dyke

ASSAYS

Ag_(ppm)

Co_(ppm)

L/R TEXT RANGE

R --- Min 7

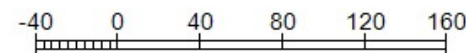
L --- Min 500

SECTION SPECS:

REF. PT. E, N 521230 m 5279568 m
EXTENTS 545.6 m 435.7 m
SECTION TOP, BOT 469.3 m 33.56 m
TOLERANCE +/- 9.15 m

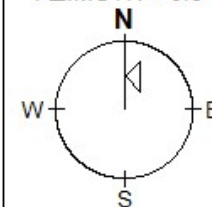
SCALE 1 : 4000

(m)



NAD83(2011) / UTM zone 17N

AZIMUTH = 0.6°

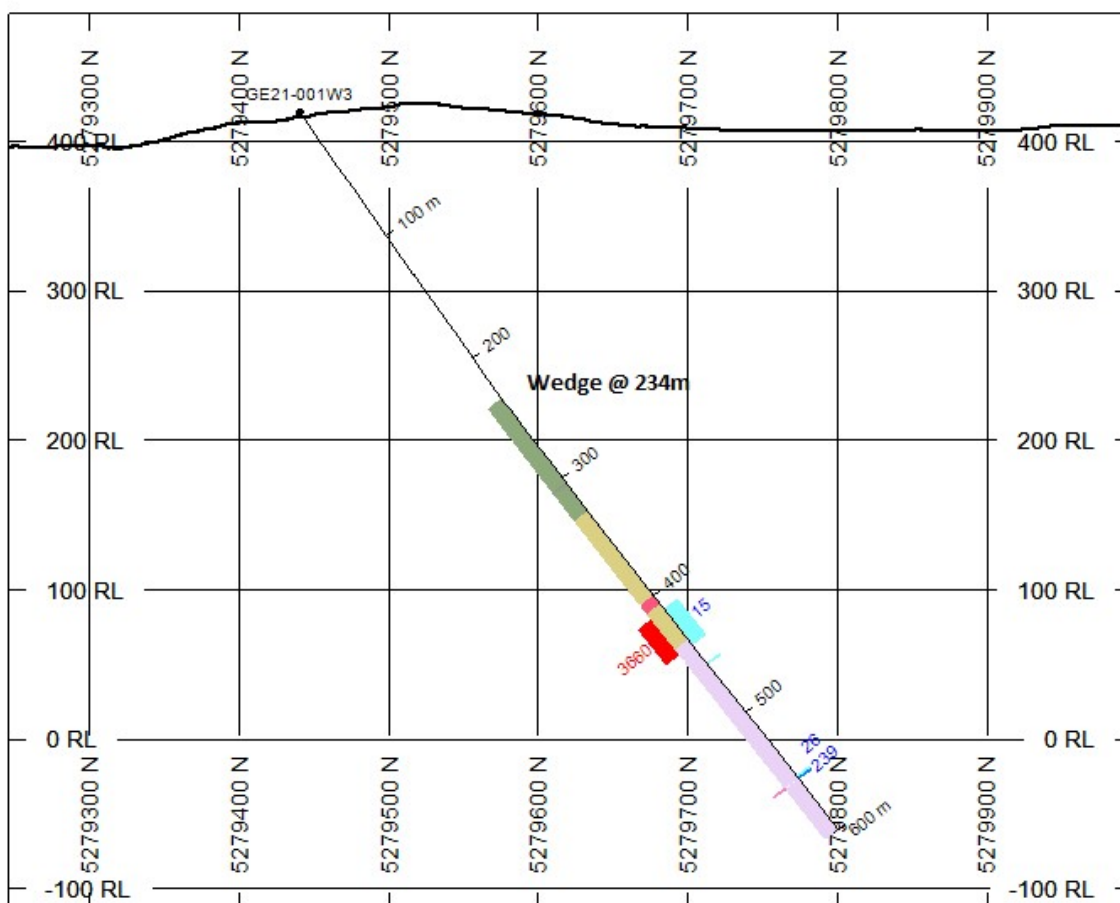
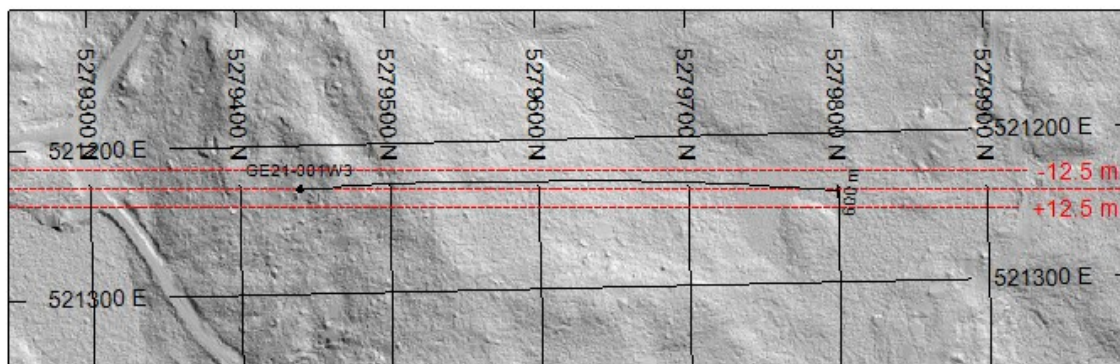


Battery Mineral Resource Corp.

Gowganda East - Transition

GE21-001W2

Azimuth: 0.68 Dip: -53.19



HOLES PLOTTED

TOTAL 1

GE21-001W3

TOPOGRAPHY

— Topography.GRD

NUMBER BANDS	L/R	PATTERN	RANGE
Ag_(ppm)	R		2 to 30
			30 to 300

NUMBER BANDS	L/R	PATTERN	RANGE
Co_(ppm)	L		200 to 500
			1000 to 10000

ROCK CODES

Lithology

PAT	LABEL
	Quartz-Carbonate Vein
	Intermediate Volcanics
	Mafic Volcanics
	Felsic to Intermediate Tuffs
	Lamprophyre
	Nipissing Diabase

ASSAYS

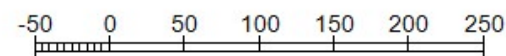
L/R	TEXT	RANGE
R		Min 7
L		Min 500

SECTION SPECS:

REF. PT. E, N 521234 m 5279621 m
 EXTENTS 750.2 m 599.1 m
 SECTION TOP, BOT 485.6 m -113.5 m
 TOLERANCE +/- 12.5 m

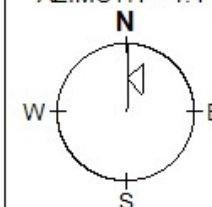
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(m)



NAD83(2011) / UTM zone 17N

AZIMUTH = 1.4°

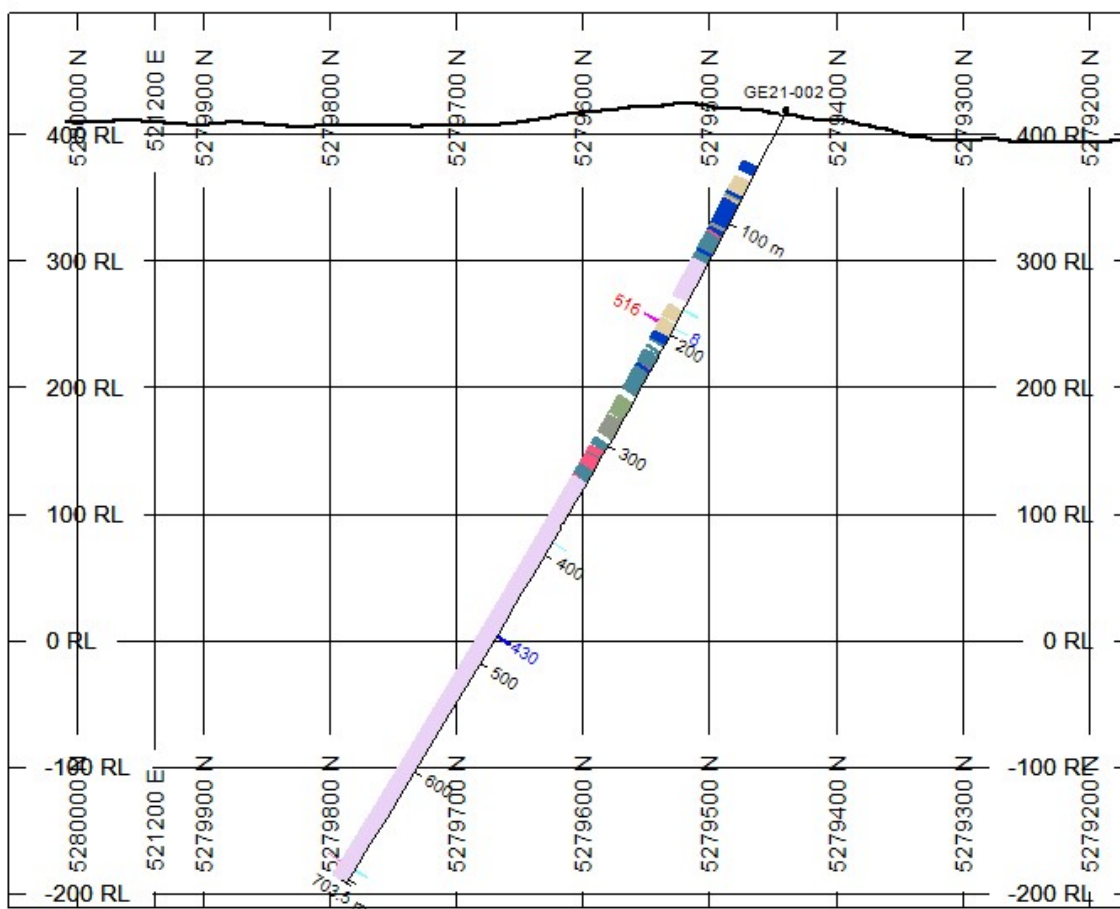
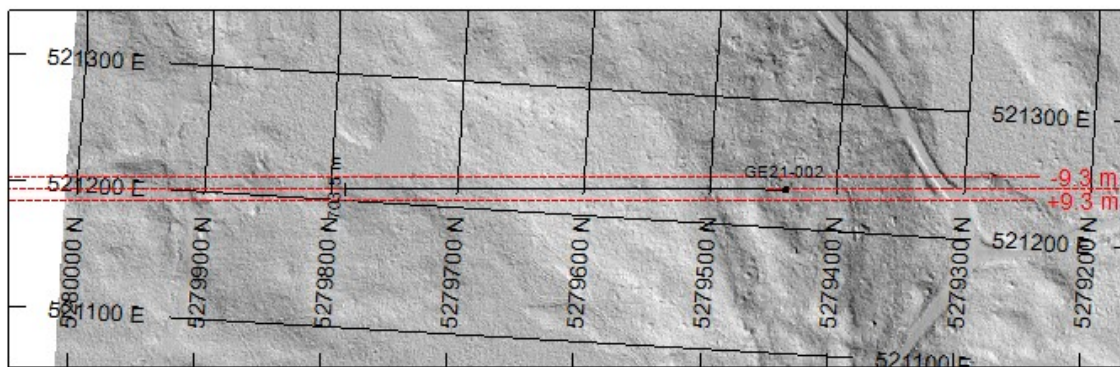


Battery Mineral Resource Corp.

Gowganda East - Transition

GE21-001W3

Azimuth: 359.80 Dip: -53.20



HOLES PLOTTED

TOTAL 1

GE21-002

TOPOGRAPHY

Topography.GRD

NUMBER BANDS	LR	PATTERN	RANGE
Ag_(ppm)	R		2 to 30 300 to 3000

NUMBER BANDS	LR	PATTERN	RANGE
Co_(ppm)	L		200 to 500 500 to 1000

ROCK CODES	PAT	LABEL
Ultralogy		Overburden
		Siltstone
		Argillite
		Quartz-Carbonate Vein
		Intermediate Volcanics
		Mafic Volcanics
		Ultramafic Volcanics
		Felsic Dyke
		Mafic Dyke
		Nipissing Diabase
		Gabbro

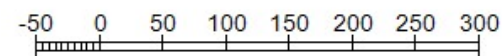
ASSAYS	LR	TEXT	RANGE
Ag_(ppm)	R	-----	Min 7
Co_(ppm)	L	-----	Min 500

SECTION SPECS:

REF. PT. E, N 521220 m 5279611 m
 EXTENTS 886.6 m 708 m
 SECTION TOP, BOT 496.5 m -211.5 m
 TOLERANCE +/- 9.3 m

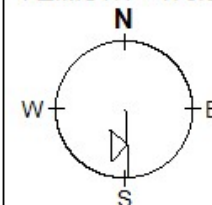
SCALE 1 : 6500

(m)



NAD83(2011) / UTM zone 17N

AZIMUTH = 176.5°



Battery Mineral Resource Corp.

Gowganda East - Transition

GE21-002

Azimuth: 356.96 Dip: -62.96