

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

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

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

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



Report on Continued Diamond Drilling at the Gowganda  
Transition Gold and Cobalt Project, Big Four Prospect,  
Haultain Township, Ontario, Canada

December 09, 2021

Prepared by:

Frank Ploeger, P.GEO  
Battery Mineral Resources Corp.

With contributions from:  
Peter Doyle, FAusIMM  
Sean Hicks, B.Sc.

Prepared For:

Battery Mineral Resources Corp. a Subsidiary of  
North American Cobalt Inc  
P.O. Box 219  
14579 Government Road  
Larder Lake, Ontario  
P0K 1L0 Canada

**TABLE OF CONTENTS**

**1. OVERVIEW.....4**

1.1 PROJECT NAME..... 4

1.2 SUMMARY ..... 4

1.3 ACTIVITIES UNDERTAKEN..... 5

**2. LOCATION DETAILS.....6**

2.1 PROPERTY & LOCATION..... 6

2.2 ACCESS ..... 7

2.3 MINING CLAIMS ..... 7

2.4 PROPERTY & EXPLORATION HISTORY..... 8

2.5 REGIONAL & LOCAL GEOLOGY ..... 12

2.6 TARGET OF INTEREST ..... 14

**3. DRILLING ..... 15**

3.1 PERMITS ..... 15

3.2 DRILLING ..... 15

3.3 GEOLOGY ..... 15

3.4 MINERALIZATION..... 16

3.5 SUMMARY & RECOMMENDATIONS..... 18

**4. REFERENCES CITED ..... 20**

**5. QUALIFICATIONS..... 22**

**6. INSTRUMENT SPECIFICATIONS ..... 24**

**7. APPENDIX..... 28**

**LIST OF APPENDICES**

- 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**

**LIST OF FIGURES AND TABLES**

Figure 1. Location of the Gowganda Project, Big Four Gold And Cobalt Prospect (Map data ©2019 Google)..... 6

Figure 2. Claim Map showing the BMR/Transition JV Gowganda Gold and Cobalt Property. Big Four location depicted by red triangle. .... 7

Figure 3. Regional Geology surrounding the Gowganda Gold and Cobalt Property, after McIlwaine (1978). .... 13

Figure 4. Geology of the Big Four Gold Prospect area (red triangle), area of diamond drilling (red circle); Geology after McIlwaine (1978) on LIDAR base..... 14

Figure 5. Drill Hole Location Plan on geology base, Gowganda Big Four Target..... 16

Figure 6. Comparison of cobaltite vein from GBF20-002 (31.05-31.27m, left) & slabbed sample R0368 at Gowganda Big Four Target. .... 17

Table 1. Gowganda Big Four Diamond Drilling Summary. .... 5  
Table 2. Diamond Drill Hole Summary for the 2020 Big Four Drill Program. .... 15  
Table 3. Table of Significant Assays from the 2020 Big Four Drilling Program. .... 17

---

## 1. OVERVIEW

### 1.1 PROJECT NAME

This project is known as the **Gowganda Transition Gold and Cobalt Project, Big Four Prospect**.

### 1.2 SUMMARY

Battery Mineral Resources Corp. continued a program of diamond drilling on the Big Four Prospect 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 Big Four Prospect forms part of the Gowganda Gold and Cobalt Property which consists of 286 unpatented mining claims covering approximately 6221.5 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 current work was conducted on cell claim 229871 (legacy claim L 4227354).

The work was carried out by G4 Drilling contractors between August 19 and 25, 2021. In order to provide safe mob and demobilization for the drill, the temporary MTO authorized access ramp was re-installed from Highway 560 to the bush road accessing the drill sites. 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. Four short holes totalling 193m were drilled (Table 1).

Historical accounts of the mineralization at the Big Four project (McIlwaine, 1978) state that:

“ A vein, carrying calcite, arsenopyrite, cobaltite, iron pyrites, and galena, was found on claim W.D. 962. It strikes N.14 E. and dips 30 E.”

Based on this premise, an initial diamond drill program was conducted in the summer of 2020 to intersect the relatively flat vein system at progressively deeper cuts with a series of paired, fanned/ “V” shaped drill patterns. Additional holes targeted a sulphide rich gossanous zone near the shaft and an oxidized outcrop knoll about 140m to the north. Overall, 19 holes totalling 2022m were drilled. The drilling revealed that the geometry of the vein zone was not as simple as stated in the historical records.

After modelling the data, it was decided to conduct a second short drill program under, and immediately adjacent to the shaft and pit to track the vein from it's point of

discovery. No cobalt values were noted in the XRF scans of the core, however, an assay of 0.20% Co and 13.35g/t Ag was returned over 0.08m at 12.4m in hole GBF21021.

All co-ordinates presented in this report are in datum: UTM NAD83, Zone 17N. All work was conducted under exploration permit **PR-19-000274**.

### 1.3 ACTIVITIES UNDERTAKEN

Program Dates	Number of Holes	Total Meters	Number of Samples Assayed
August 19- 25 <sup>th</sup> , 2021	4	193	49

***Table 1. Gowganda Big Four Diamond Drilling Summary.***

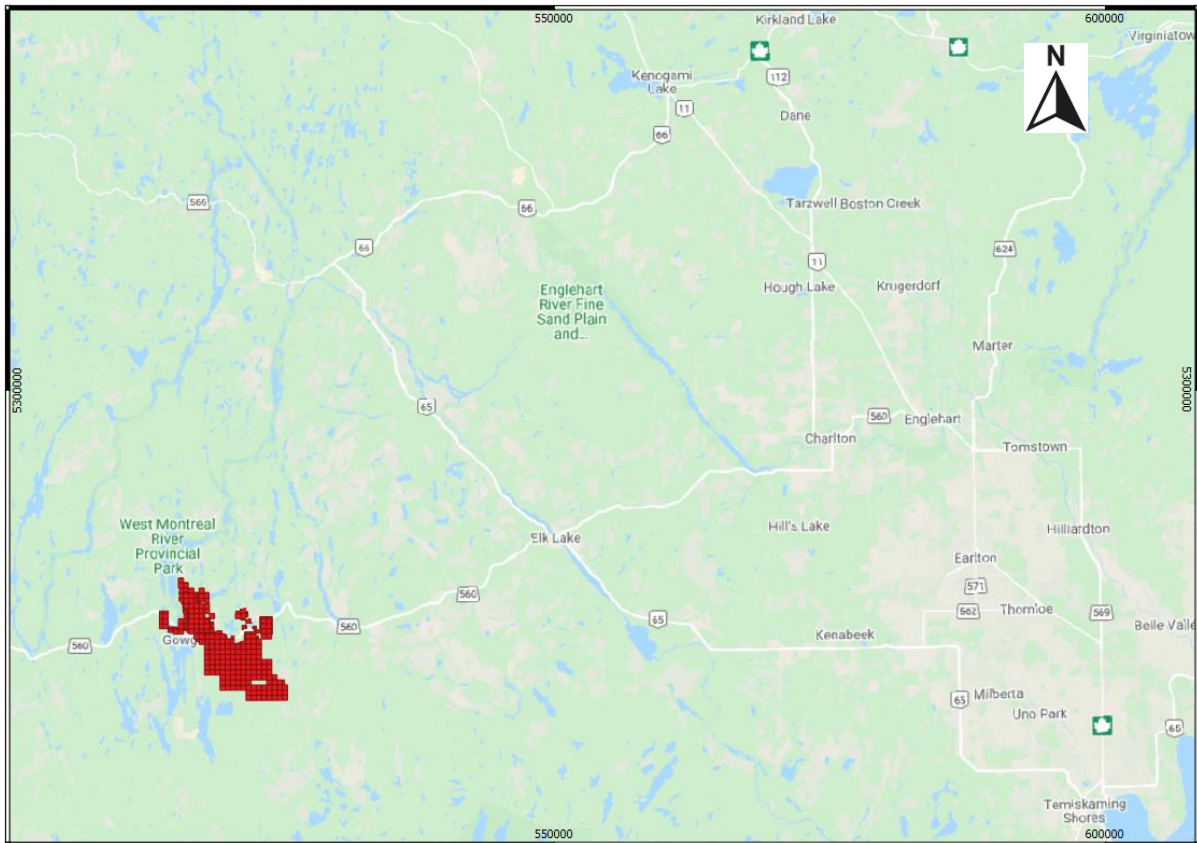
## 2. LOCATION DETAILS

### 2.1 PROPERTY & LOCATION

The Gowganda Gold and Cobalt Property, Big Four Gold Prospect 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 Resource Corp. dated March 2nd, 2019.

The project area consists of 286 unpatented mining claims covering approximately 6221.5 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.



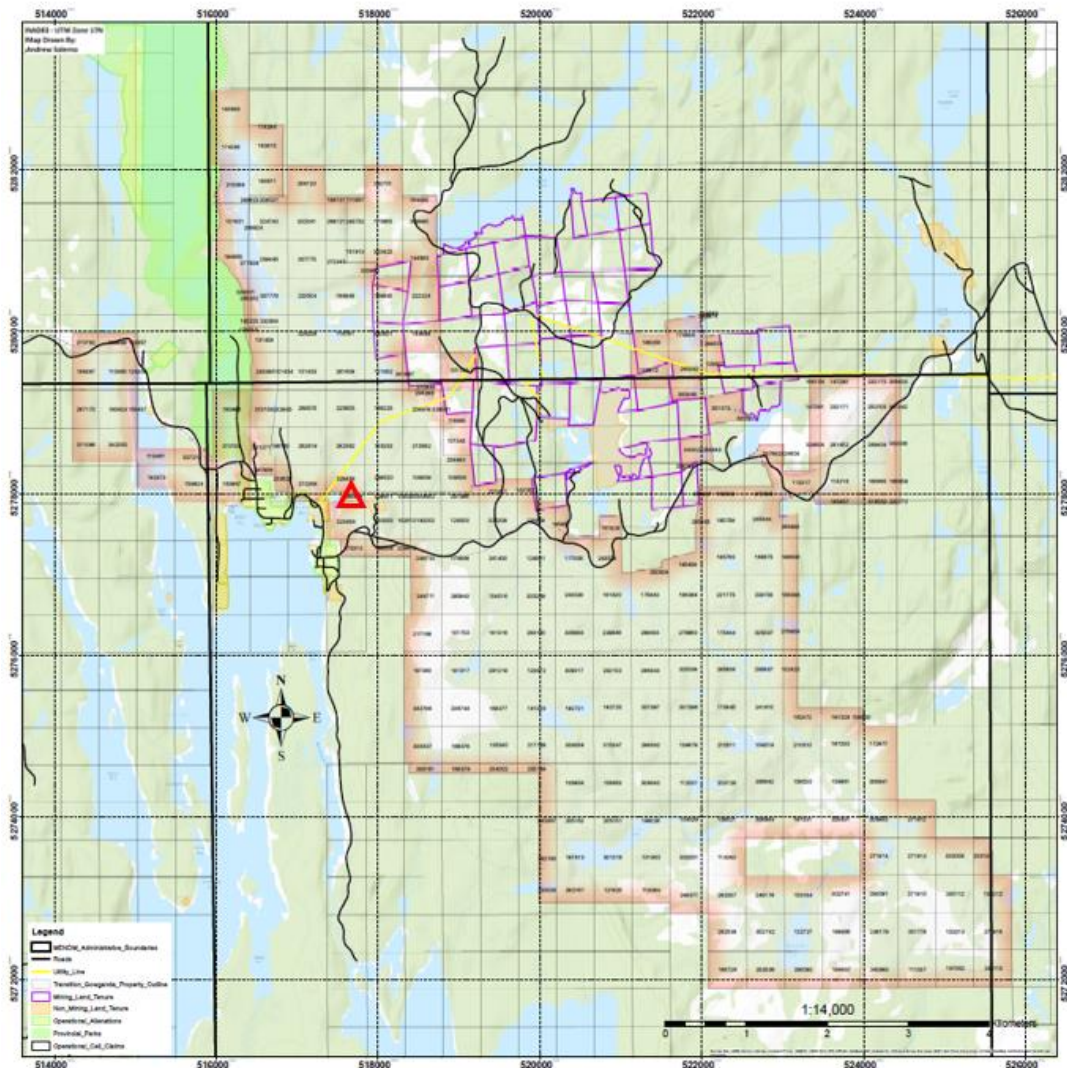
***Figure 1. Location of the Gowganda Project, Big Four Gold And Cobalt Prospect (Map data ©2019 Google)***

## 2.2 ACCESS

The Big Four Gold and Cobalt Prospect is easily accessed by a short (< 1km) ATV bush- road/ trail north of highway 560, between the village of Gowganda, Ontario and a microwave tower access road approximately 0.5 km to the east.

## 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 286 unpatented mining claims covering approximately 6221.5 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 Gold and Cobalt Property. Big Four location depicted by red 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 property. This is supplemented by data updated from the MNM assessment files and programs conducted on the property by Transition Metals.

The following is a summary of work completed on, or adjacent to, the Gowganda Gold and Cobalt Property

### **1920's:**

The original Big 4 claims were patented, however, there is little historical work recorded on these claims.

By 1926 property ownership was held by a number of parties; however, by 1929 an amalgamation of Capitol Silver Mines, Trethewey Silver and Cobalt Mines Limited resulted in the formation of a consolidated silver company called Castle Trethewey Mines Ltd. Production activities of the mine ceased around 1931 and were not renewed until 1948.

Starting in 1925, surface exploration and stripping at the former Hylands-Johnson-Gardiner property, located near the upper contact of the Nipissing Diabase in the Miller Lake Basin, resulted in the sinking of a 30.5 m shaft. In 1926, operations were taken over by Planta Mines Limited, a subsidiary of Noranda Mines Ltd., and the shaft was deepened to 87 m with an addition of 850 m of workings prior to the mine closure in April 1927. In 1952, the property was optioned to Gardiner-Johnson Property Syndicate, who dewatered the shaft, continued sampling and diamond drilling before the work was suspended.

### **1947 – 1950: Quebec Yellowknife Gold Mines Ltd.**

Completed geological mapping, trenching and three (3) diamond drill holes. Mapping and trenching delineated several vein-systems and one sample returned 8.41 oz Ag/t and 14.29% copper. Other mineralization noted on the property in the assessment files include cobaltite, bismuthinite and chalcopyrite.

### **1951 – 1953: Indore Gold Mines Limited**

Two diamond drill holes were completed in 1951 and an additional three (3) holes in 1953. One hole intersected an 18 cm interval containing 30% chalcopyrite that returned 10.25% copper and 0.68 oz/t silver. Several pits are located in the area south of Highway 560 with associated rubble piles containing carbonate-quartz vein material with bornite, chalcopyrite and pyrite.

### **1955: Ontario Geological Survey**

Moore (1955) mapped Haultain and northern Nicol townships covering the area of the claims at a scale of 1:31,680. Map 1955-03; AR64 part 5.

---

**1959: McIntyre Porcupine Mines**

The Castle Trethewey property was taken over by McIntyre Porcupine Mines and silver mining activities in the area continued until 1966.

**1961: Caesar Minerals Ltd.**

Completed seven (7) diamond drill holes, totalling 214 m, near the historical Big Four Showing, also referred to as the Banker Bay Occurrence, historically held by Tego Silver-Cobalt Mines Ltd. The showing includes a series of trenches and pits and a 25 ft (7.6 m) deep shaft located on the north side of radio tower hill north of Highway 560. In the main area of the shaft and a main pit, there is a 12.7 – 15.2 cm carbonate-quartz vein containing arsenopyrite, cobaltite, pyrite and galena cross-cutting Archean iron-formation. A pyritic/ sulphide iron formation with an Archean quartz porphyry footwall is located east of the shaft and an approximately 2 m wide sulphide iron formation becomes leaner, grading into siliceous iron formation to the north. A drilling program was conducted east of the trenching and pitting in an attempt to trace the iron formation under the Huronian Sediments. Field assay results by R. McDougall in 1968 returned: 40.6% sulphur and up to 10.8 oz Ag/t (336 g Ag).

**1967 - 1972: Siscoe Mines**

The Castle Trethewey property was optioned to United Siscoe Mines and mining was resumed in the vicinity of the Capital workings. United Siscoe Mine conducted a soil sampling program covering a large portion of the current property, then referred to as the Roy Ten Claim Group. Samples were collected on a sampling density of approximately one sample of the B- soil horizon every 100 x 200 ft (30.5 x 61.0 m) and analysed for silver, mercury and cobalt. Several silver anomalies were identified close to the known silver workings, but no follow up work was proposed.

**1971: Raylloyd Mines**

In 1971, Raylloyd Mines acquired a group of past producing silver claims once a part of McIntyre Porcupine Mines referred to by Siscoe as the Roy Ten Group from P. Mclean. They completed three (3) drillholes into a magnetic and IP target believed to be prospective for hosting nickel. This work was successful in confirming the presence of a large ultramafic (peridotite/ dunite) body in which no nickel mineralization was noted.

**1972: Siscoe Mines**

The mine in the Gowganda Area ceased production and the property was returned to McIntyre Porcupine Mines

**1973**

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 91,421,294 grams silver (2.67 million ounces of silver), 34,597 kilograms cobalt and 10,180 kg copper (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.

**1997: Lake Superior Resources**

Flew a Terraquest airborne VLF-EM, radiometric, and magnetic survey, with 100 m line-spacing at a 100 m altitude.

**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: Gold Bullion Development Corp.**

Castle Trethewey Mines Ltd. Property was acquired by Gold Bullion Development Corp. who completed preliminary metallurgical testing on composite sample of silver tailings material extracted from the tailings pond.

**1999 - 2008: Sherry Swain Prospecting**

In 1999, Sherry Swain, a Gowganda based prospector, staked the property. In 2006, Swain identified anomalous gold values associated with altered and deformed Archean greenstones located west of the historical silver workings. Between 2006 and 2008, small scale stripping of the altered volcanics and intrusives resulted in the identification of several additional zones of anomalous gold mineralization including a piece of silicified rock that returned 0.186 opt Au (Swain, 2009).

**2008: Norcanex Resources Ltd.**

---

Briefly optioned the property and undertook a high resolution airborne magnetic survey covering the property, however, the property was returned to the owner without completing any physical work.

**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 Big 4 prospect. 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. However, no work was done in the vicinity of the Big 4 showing.

**2017: Aldershot Resources Ltd.**

Between January and June 2017, Aldershot Resources Ltd. cut approximately 14.75 kilometers of grid line to accommodate both a walking magnetic survey and pole-dipole induced polarization survey which identified 2 resistivity features. Aldershot completed eleven (11) diamond Drill holes focusing on the strike extents of four of the known gold occurrences. Research included a structural review investigating the controls on gold mineralized quartz veins at the main showing around Trench 3. With an increase in the price of cobalt, a short program of prospecting and sampling was conducted to assess the property for cobalt potential. Following an evaluation of their exploration program, Aldershot Resources Ltd returned the property to Transition Metals in the fall of 2017 (Hart and Burden, 2018).

**2018: Battery Mineral Resources Corp.**

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

**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.**

Prospecting in Haultain and Nicol townships focused primarily around the Big Four showing (also known as, the Banker Bay Occurrence). A total of 43 samples were collected, 27 were sent for multi-element and gold assay and an additional 16 samples were sent for whole rock analysis.

**2020: Battery Mineral Resources Corp.**

Battery Mineral Resources Corp. performed a drill program on the property which consisted of four (4) diamond drill holes totalling 978 m testing extensions of the Haultain Gold Prospect.

**2020: Battery Mineral Resources Corp.**

---

A diamond drill program was conducted in the summer of 2020 to intersect the relatively flat vein system at progressively deeper cuts with a series of paired, fanned/“V” shaped drill patterns. Additional holes targeted a sulphide rich gossanous zone near the shaft and an oxidized outcrop knoll about 140m to the north. Overall, 19 holes totalling 2022m were drilled.

## 2.5 REGIONAL & LOCAL GEOLOGY

Geology and history of the Gowganda area is summarized by McIlwaine (1978) and references there-in.

### **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 vicinity of the Gowganda Gold and Cobalt Property, Paleoproterozoic sedimentary rocks of the Huronian Supergroup unconformably overlay older Archean granites, meta-volcanics and meta-sedimentary rocks of the Abitibi and/or Pontiac Sub-province of the Superior Craton. The Nipissing Diabase, Proterozoic in age, intrudes all lithologies in the region with the exception of the younger mafic dykes and sills.

Regional metamorphism reached lower to middle greenschist facies.

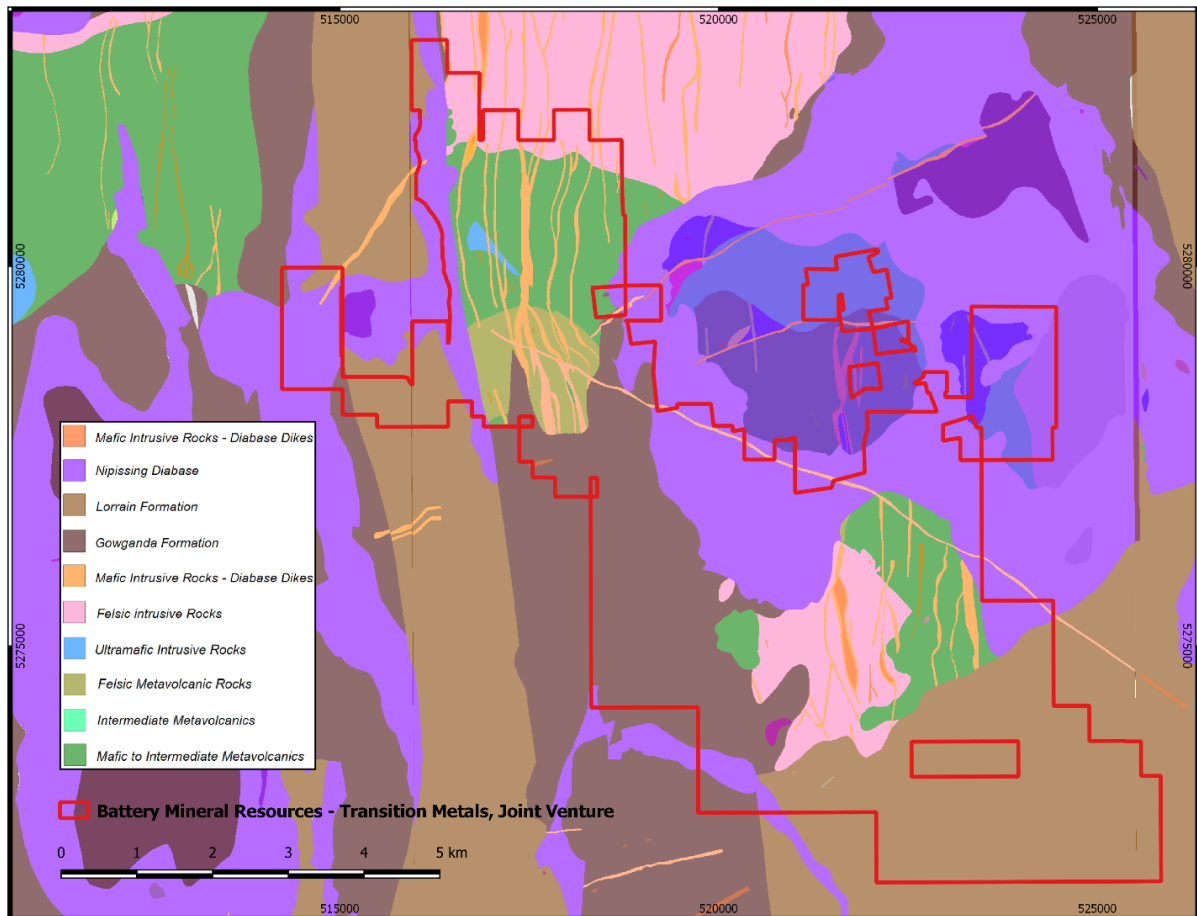
### **Property Scale Geology:**

The local geology of the Gowganda Gold and Cobalt Property, including the Big Four showing, is excerpted from a report by Collins (2010, Figure 3):

“An inlier of Archean rocks located in the northwestern portion of the Property, centered in western Haultain Township, consists of predominately of ultramafic, mafic, and intermediate to felsic volcanoclastic metavolcanic rocks interbedded chemical chert-magnetite oxide facies iron formation and clastic metasedimentary rocks (Collins 2010). A series of syn-tectonic gabbro, lamprophyre, and syenite dikes cross cut 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 swarm 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

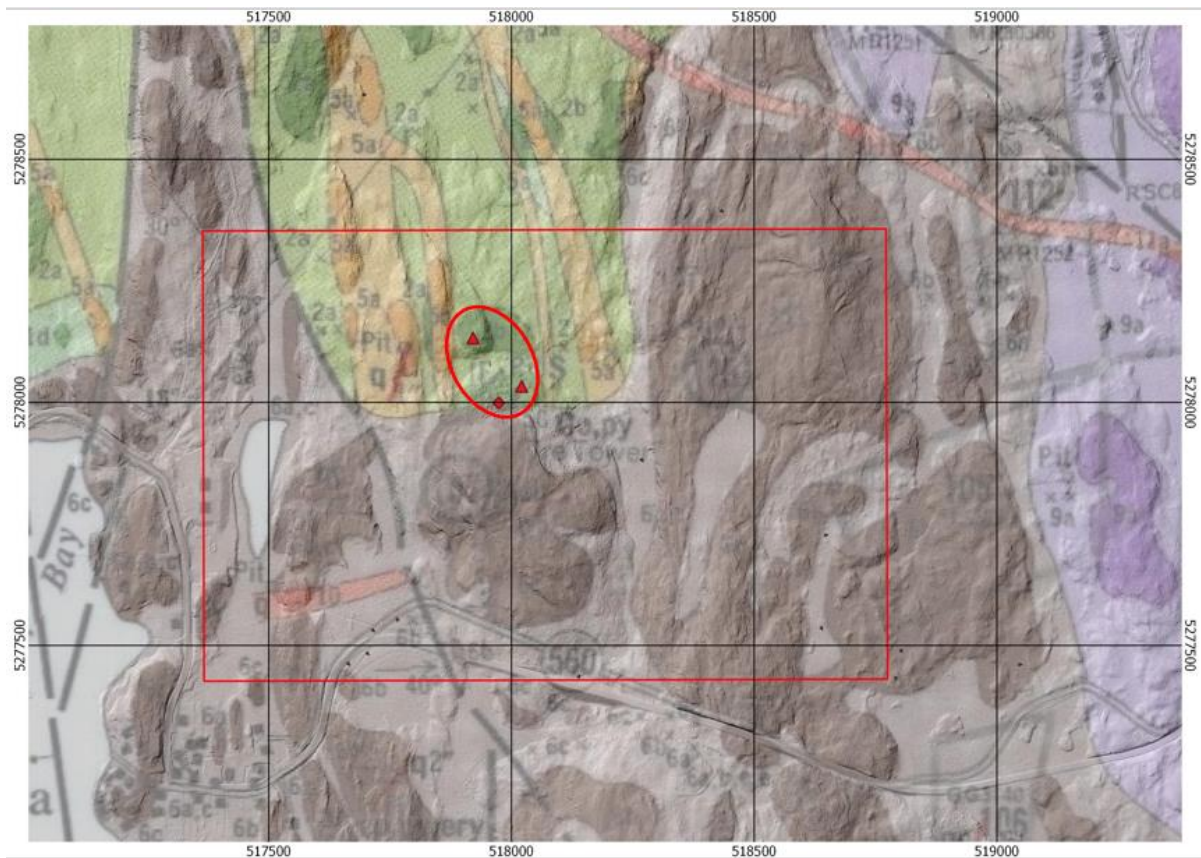
overlain by Proterozoic age Huronian Supergroup intruded by sills of Nipissing Gabbro (Collins 2010). The Cobalt Formation of the Huronian Supergroup consists of feldspathic arenite, feldspathic greywacke, and paraconglomerate of the Gowganda Formation and feldspathic and micaceous sandstones of the Lorrain Formation. Nipissing Gabbro sills are mainly composed of pyroxene gabbro with limited subophitic textures and occasional granophyric phases in the upper portions.”



**Figure 3. Regional Geology surrounding the Gowganda Gold and Cobalt Property, after McIlwaine (1978).**

### **Big Four Gold Prospect Geology**

The geology in the immediate vicinity of the Big Four Gold Prospect area is taken from McIlwaine (1978, Figure 4). The pits and shafts (red triangles) are located in a “U” shaped series of high weathering outcrops of Huronian sediments which enclose an embayment of Archaean mafic to felsic volcanics with interbeds of iron formation intruded by north- south trending Matachewan diabase dikes. The location of the area of the current (2021) drill campaign as well as the 2020 stripping, mapping, channel sampling and diamond drilling on the Big Four property is circled in red.



***Figure 4. Geology of the Big Four Gold Prospect area (red triangle), area of diamond drilling (red circle); Geology after McIlwaine (1978) on LIDAR base.***

## 2.6 TARGET OF INTEREST

The Big Four showing was originally drilled in 2020 but because of the steep slope, collars could not be ideally located and the holes failed to intersect the main vein system as intended. The current diamond drill program consisted of tightly spaced holes designed to intersect the relatively flat Co-bearing vein system under, and adjacent to the shaft/ pit in order to confirm the historical vein orientation. This vein was of particular interest because it closely mimicked the character of the McAra vein.

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

Permit for exploration drilling at the Gowganda Transition Gold and Cobalt Project, **PR-19-000274**

#### 3.2 DRILLING

Historical accounts of the mineralization at the Big Four project (McIlwaine, 1978) state that:

*“A vein, carrying calcite, arsenopyrite, cobaltite, iron pyrites, and galena, was found on claim W.D. 962. It strikes N.14 E. and dips 30 E.”*

Based on this premise, the 2020 diamond drill program (19 holes totalling 2022 m) was designed to intersect the relatively flat vein system at progressively deeper cuts. Additional holes targeted sulphide rich gossanous zones near the shaft and on an oxidized outcrop knoll about 140m to the north.

The current drilling, four short holes totalling 193m was carried out by G4 Drilling contractors between August 19 and 25, 2021. In order to provide safe mob and demobilization for the drill, the temporary MTO authorized access ramp was re-installed from Highway 560 to the bush road accessing the drill sites. 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. Table 2 provides a summary of the drilling and the collar information, and Figure 5, a plan view of the diamond drill hole traces. All work was conducted under exploration permit **PR-19-000274** on cell claim 229871.

<b>Big Four 2021 Drilling</b>					
<b>Hole ID</b>	<b>Easting</b>	<b>Northing</b>	<b>Azim</b>	<b>Dip</b>	<b>Length</b>
<b>GBF21019</b>	<b>517976</b>	<b>5278009</b>	<b>229.35</b>	<b>-43.79</b>	<b>30</b>
<b>GBF21020</b>	<b>517977</b>	<b>5278010</b>	<b>254.56</b>	<b>-45.21</b>	<b>70</b>
<b>GBF21021</b>	<b>517977</b>	<b>5278010</b>	<b>257.63</b>	<b>-64.73</b>	<b>42</b>
<b>GBF21022</b>	<b>517991</b>	<b>5278012</b>	<b>254.8</b>	<b>-49.17</b>	<b>51</b>

**Table 2. Diamond Drill Hole Summary for the 2020 Big Four Drill Program.**

#### 3.3 GEOLOGY

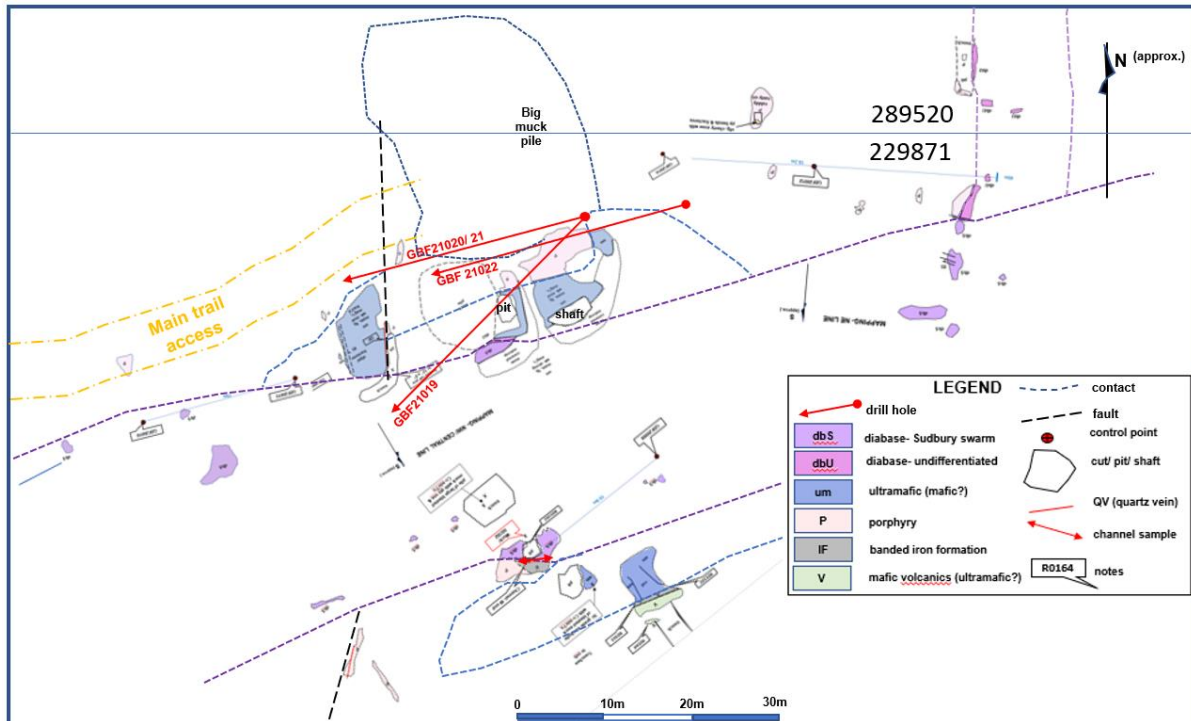
The main diabase dike, designated as Sudbury type during the initial logging, is dark greenish grey to grey black, very fine to fine-grained, massive, equigranular, and moderately magnetic. It is fresh with local very weak sericite +/- epidote +/- carbonate with trace sulphides.

The dominant host lithology to the north and south of the “Sudbury” diabase dike



consists of a variably altered and textured dacite/ porphyry that exhibits both intrusive and extrusive features. In places, it is distinctly fresh looking and porphyritic textured, while in others, it appears to be dacitic in composition and tuffaceous looking with cherty (tuff) lenses. Locally, the textures appear gradational from the porphyritic to the siliceous phases which could be interpreted as a progressive increase in pervasive alteration (silica- carbonate- pyrite+/- albite) of a porphyritic intrusive.

The dacitic unit hosts minor narrow lenses of banded iron formation and semi-massive sulphide zones. The iron formation generally is dark green to black, very fine



**Figure 5. Drill Hole Location Plan on geology base, Gowganda Big Four Target.**

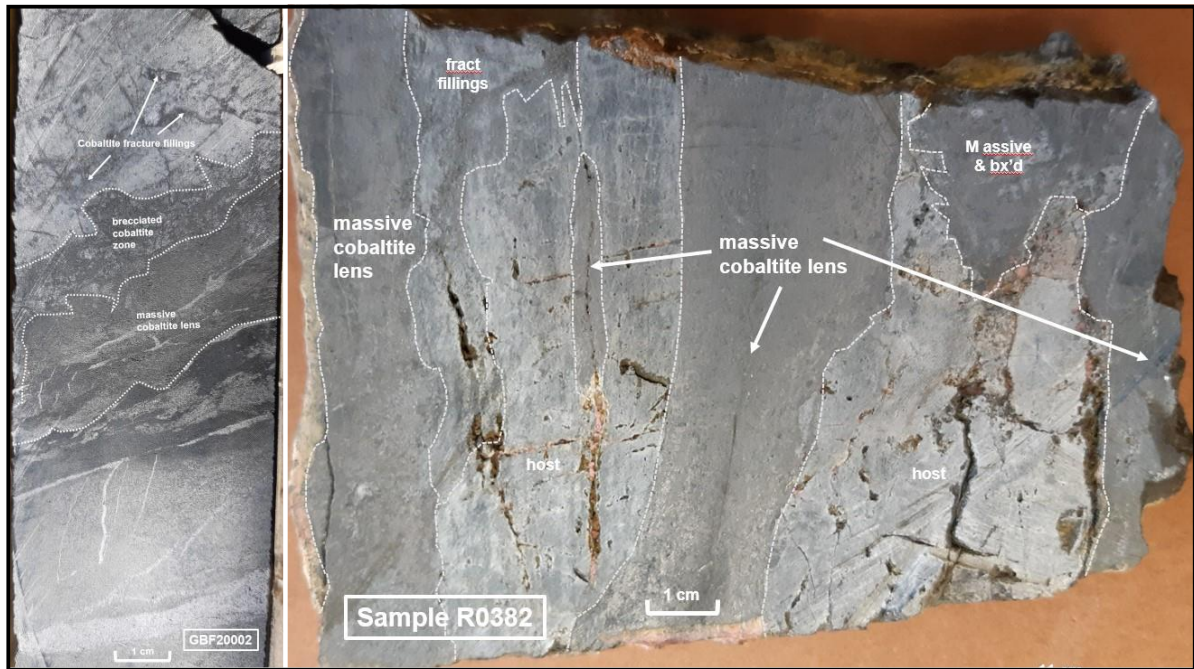
grained, well bedded/ laminated at 100 degrees and dipping 75N, and generally strongly magnetic. In places, the orientation of the beds varies suggesting possible primary slumping. Locally, the bedded magnetite layers appear to be relaced, or altered to, pyrrhotite and pyrite.

Intruding this suite are a variety of mafic to ultramafic and diabase dikes that are variably magnetic. Central to the area of the shaft and pits is an odd weakly to strongly magnetic, fine grained, green-grey lithology that was interpreted as a variably altered ultramafic rock. Because it is strongly magnetic in the walls of the shaft and north part of the main historic pit, it was mistakenly(?) identified as iron formation.

### 3.4 MINERALIZATION

Unlike the cobalt mineralization in the main Gowganda camp which is associated

with carbonate veins, mineralization at Big Four occurs as massive lenses and fracture fillings of cobaltite (Figure 6) similar to that at McAra.



**Figure 6. Comparison of cobaltite vein from GBF20-002 (31.05-31.27m, left) & slabbed sample R0368 at Gowganda Big Four Target.**

No Co mineralization was observed in logging nor were there any XRF hits in scanning the core, however, when the assays were returned from the lab, a few Co values above background were detected. Anomalous Cu values were generally associated with sulphide-rich lenses in the dacite/ porphyry while increased Ag content appears to coincide with elevated Co values. Table 3 summarizes the best assays of the 2021 drill program.

Hole ID	From	To	Width	Sample ID	Standard ID	Ag g/t	Co %	Cu ppm
GBF21019	24	25	1	19045		1.00	0.04	0.03
GBF21020	42.6	43.6	1	19059		0.95	0.01	0.10
GBF21021	11.6	12.4	0.8	19107		3.13	0.02	0.08
GBF21021	12.4	13.2	0.8	19108		13.35	0.20	0.44
GBF21021	22.2	22.8	0.6	19111		0.70	0.01	0.06
GBF21021	22.8	23.4	0.6	19112		0.72	0.00	0.05
GBF21022	11.8	12.8	1	19017		0.59	0.00	0.05
GBF21022	12.8	13.6	0.8	19018		1.37	0.00	0.07
GBF21022	13.6	14.4	0.8	19019		1.02	0.00	0.06

**Table 3. Table of Significant Assays from the 2020 Big Four Drilling Program.**

- 
- GBF21019** – Drilled directly under the pit (original showing); No significant results. Peak Co value from 24.0 m to 25.0 m at 0.04% Co.
- GBF21020** – Collared at same set up as 019 but targeting zone 10m to the north; Peak Interval from 42.6m – 43.6m at 0.01% Co with 0.10% Cu.
- GBF21021** – Drilled below 020 at the same azimuth; Best value of 0.20% Co from 12.4 m to 13.2 m with 1.35 g/t Ag and 0.44% Cu in a calcite fractured zone. Slightly anomalous Co and Cu values were returned up and down hole.
- GBF21022** – Collared about 12m behind (east of) 020/ 021. No significant Co intercepts but 0.06% Cu over 2.6m from 11.8- 14.4m.

### 3.5 SUMMARY & RECOMMENDATIONS

Historical accounts of the mineralization at the Big Four project (McIlwaine, 1978) state that:

*“A vein, carrying calcite, arsenopyrite, cobaltite, iron pyrites, and galena, was found on claim W.D. 962. It strikes N. 14 E. and dips 30 E.”*

Based on this premise, a 2020 diamond drill program was designed to intersect the relatively flat vein system at progressively deeper cuts. Overall, 19 holes totalling 2022m were drilled.

After modelling the data, it was determined that most holes were collared in, and around, and traversed through a central ENE trending diabase, thereby “diking out” the vein. The dominant host lithology to the north and south of the “Sudbury” diabase dike consists of a variably altered and textured dacite/ porphyry that exhibits both intrusive and extrusive features. The dacitic unit hosts narrow minor lenses of banded iron formation and semi- massive sulphide zones. Intruding this suite are a variety of mafic to ultramafic and diabase dikes that are variably magnetic.

Unlike the cobalt mineralization in the main Gowganda camp which is associated with carbonate veins, mineralization at Big Four occurs as massive lenses and fracture fillings of cobaltite similar to that at McAra. Hole GBF20002 from the 2020 drilling intersected the cobalt vein at 31.15m (Figure 6 left), however none of the current holes that were drilled directly under and adjacent to the surface features (pits, shaft) managed to cut the vein. This implies that it is closely constrained by certain host lithologies and of very limited strike extent. At the discovery pit, there is a 6m wide shallow dipping fracture/ vein zone constrained between a diabase dike to the south and dacite unit to the north which may define the strike limits of the Co zone.

The best Co value of 0.20% Co over 0.8m was obtained in hole GBF21021 which

---

did not occur in the same textural configuration as the core/ muck samples in Figure 6. This interval also corresponds to the best Ag assay while anomalous Cu intersections in hole GBF21022 occur in a unit of iron formation.

### **Recommendations**

It is recommended that:

- 1) all of the new drill data and the surface stripping, mapping and channel sampling be integrated into a revised 3-D model;
- 2) the lithologies be examined petrographically and analyzed chemically to determine the nature of the protolith and the chemistry and progression of overprinted alteration and to provide correct lithological IDs to the field names;
- 3) the major mineralized zones in the felsic rocks be modelled to determine the orientation of the zones and any potential Au, Ag, or Co enrichments;
- 4) no additional cobalt targeted drilling be performed around the Big Four showing.

---

#### 4. REFERENCES CITED

---

##### Main References

- 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.
- Hart, T.R. and Burden, S.J. 2018: 2017 Diamond Drilling Induced Polarization Survey and Prospecting Program in Haultain, Nicol, Milner, Van Hise and Lawson Townships: Gowganda, Ontario; dated December 31, 2018; Ministry of Northern Development, Mines and Forestry, assessment file; 59 p
- McIlwaine, W.H. 1978. Geology of the Gowganda Lake – Miller Lake Silver Area; Ontario Geological Survey, Geological Report 175, 185 p.
- 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.
- Swain, S. 2009. Mechanical Stripping/Prospecting 2009, Haultain/Nicol Twp., Larder Lake Div., Claim 1248799, Kirkland Lake Resident Geologist's file CO- 3510.

##### Additional References

- Andrews, A.J., Owsiacki, 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.
- Andrews, A.J., Masliwec, A., Morris, W.A., Owsiacki, L., and York, D., (1986b). The silver deposits at Cobalt and Gowganda, Ontario. II: An experiment in age determinations employing radiometric and paleomagnetic measurements: Canadian Journal of Earth Sciences, v.23 (10), p. 1507-1518.
- Google Earth Pro. (2019). *Location of the Gowganda Project*. 47°40'16.71"N, 80°43'46.78"W, eye alt 255.46km, Viewed November 19, 2019. <<http://www.google.com/earth/index.html>>.
- Hanych, W. (1999). *Roy Lacarte Property, Geological Evaluation*. Tyrrell Township, Timiskaming District, Northeastern Ontario.
- 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.
- Jambor, J.L. (1971). *The Nipissing Diabase*. The Canadian Mineralogist, 11(1):34-75

- 
- Joyce, J.K. (n.d.). *The Cobalt-Gowganda Silver Mining Area*. Retrieved from [https://www.davidkjoyceminerals.com/pagefiles/articles\\_cobaltgowganda.asp](https://www.davidkjoyceminerals.com/pagefiles/articles_cobaltgowganda.asp).
- 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.
- Lebrun, E., (2019). Gowganda Cobalt Exploration Project Site Visit. Internal Memo, SRK Consulting, p. 1-5.
- Lindsey, D.A. (1969). *Glacial Sedimentology of the Precambrian Gowganda Formation, Ontario, Canada*. GSA Bulletin, 80 (9): p. 1685-1702.
- Palmer, H. C.; Ernst, R. E.; Buchan, K. L. (2007). "Magnetic Fabric Studies of the Nipissing sill province and Senneterre dykes, Canadian shield, and Implications for Emplacement". *Canadian Journal of Earth Sciences. NRC Research Press* 44 (4): p. 507–528.
- Ploeger, F. (2018). *Gowganda – Capitol Shaft Trenching and Washing Program. Summary of Work*. Battery Mineral Resources.\* *Internal source may not be accessible to general public*
- Ploeger, F. (2019). *Gowganda Capitol Shaft Drilling: Preliminary Observations*. Battery Mineral Resources.\* *Internal source may not be accessible to general public*.
- Siddom, James P. (1999). *Differential Uplift of the Archean Basement North of the Sudbury Basin: Petrographic Evidence from the Matachewan Dyke Swarm (submitted in conformity with the requirements for the degree of M.Sc. Graduate Department of Geology University of Toronto thesis)*.
- Siemiakowska, K.M. (1977). *Geology of the Wakomata Lake Area, District of Algoma*. Ontario Division of Mines: Geoscience Report 151.

---

---

## 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 and mine geologist 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 from various public sources 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, December 09, 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 Vice President Exploration – Canada for Battery Mineral Resources Corp 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, December 09, 2021



## 6. INSTRUMENT SPECIFICATIONS

### Trimble GeoXT<sup>1</sup>



### STANDARD FEATURES

#### System

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

#### GPS

- Integrated high-performance GPS/SBAS1 receiver and L1 antenna
- Submeter real-time or 50 cm postprocessed accuracy

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

- 
- RTCM and CMR real-time correction support
  - TSIP and NMEA protocol support
  - EVEREST multipath rejection technology

#### Standard Software

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

#### Standard Accessories

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

### **OPTIONAL FEATURES**

#### Optional Software

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

#### Optional Accessories

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

- Geo Beaconreceiver
- Anti-glare screen protectors (2-pack)

## TECHNICAL SPECIFICATIONS

### Physical

Size .....	21.5 cm × 9.9 cm × 7.7 cm (8.5 in × 3.9 in × 3.0 in)
Weight .....	0.80 kg (1.76 lbs) with battery
Processor .....	520 MHz Marvell PXA-270 XScale processor
Memory .....	128 MB RAM and 1 GB internal Flash storage
Battery .....	Internal 7500 mAh lithium-ion 27.8 Watt-hours, rechargeable in unit
Power usage	
Low (no GPS or backlight) .....	1.8 Watts
Normal (with GPS and backlight <sup>3</sup> ) .....	2.6 Watts
High (with GPS, backlight <sup>3</sup> , Bluetooth, and wireless LAN) <sup>4</sup> .....	3.7 Watts

### Environmental

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

### Input/Output

Expansion .....	SD card slot (SD or SDHC storage cards)
Display .....	8.9 cm (3.5 in) VGA (480 x 640 pixel) TFT, 16-bit (65,536) colors LED back light
Interface .....	Touch screen, 10 hardware control keys, power status LED Audio system events, warnings, and notifications Soft Input Panel (SIP) virtual keyboard and handwriting recognition software
Audio .....	Microphone and speaker, record and playback utilities
I/O .....	USB 1.1 client via support module Serial via optional 9-pin RS-232 power/serial clip adaptor
Radios <sup>5</sup> .....	Bluetooth 1.2, Wireless LAN 802.11b/g

### GPS

Channels .....	14 (12 L1 code and carrier, 2 SBAS)
Integrated real-time .....	SBAS <sup>1</sup> (dual-channel tracking)
Update rate .....	1 Hz

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

Accuracy (HRMS)<sup>6</sup> after differential correction

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

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

---

---

## 7. 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**

Venture ID	Project	Cell ID(s)	Venture Type	Venture Status	Anniversary Date	Due Date	Optimum Work Report Submission Date	Holder	Area (ha)	Township/Area	Work Required	Work Applied	Available Consultation Reserve	Available Exploration Reserve	Total Approved Reserve	Plan/Permit
108672	Gowganda	41P10386	SCMC	Active	2021-11-15	2021-11-15	2021-06-15	(100) TRANSITION METALS CORP	5.11	HAULTAIN,NICOL	200	600				PR-21-00057, PL-20-000119
133622	Gowganda	41P10388	BCMC	Active	2021-11-15	2021-11-15	2021-06-15	(100) TRANSITION METALS CORP	6.33	HAULTAIN,NICOL	200	600				PL-20-000119
178834	Gowganda	41P10367	BCMC	Active	2021-11-15	2021-11-15	2021-06-15	(100) TRANSITION METALS CORP	18.63	HAULTAIN	200	600				PR-21-000057
186256	Gowganda	41P10366	BCMC	Active	2021-11-15	2021-11-15	2021-06-15	(100) TRANSITION METALS CORP	9.20	HAULTAIN	200	600				PR-21-000057
206247	Gowganda	41P106047	BCMC	Active	2021-11-15	2021-11-15	2021-06-15	(100) TRANSITION METALS CORP	2.66	NICOL	200	200				
264843	Gowganda	41P106028	BCMC	Active	2021-11-15	2021-11-15	2021-06-15	(100) TRANSITION METALS CORP	2.13	NICOL	200	200			230	230
265092	Gowganda	41P10387	BCMC	Active	2021-11-15	2021-11-15	2021-06-15	(100) TRANSITION METALS CORP	19.83	HAULTAIN,NICOL	200	600				PR-21-000057
289574	Gowganda	41P10368	BCMC	Active	2021-11-15	2021-11-15	2021-06-15	(100) TRANSITION METALS CORP	3.60	HAULTAIN	200	600				
319568	Gowganda	41P10348	BCMC	Active	2021-11-15	2021-11-15	2021-06-15	(100) TRANSITION METALS CORP	0.00	HAULTAIN	200	600				
343322	Gowganda	41P106027	BCMC	Active	2021-11-15	2021-11-15	2021-06-15	(100) TRANSITION METALS CORP	10.49	NICOL	200	200				
102422	Gowganda	41P106150	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.76	NICOL	400	600			231	231
109960	Gowganda	41P106172	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.76	NICOL	400	600				
109961	Gowganda	41P106211	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.76	NICOL	400	1,200				
111337	Gowganda	41P106313	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.77	NICOL	400	1,200				
113317	Gowganda	41P106050	BCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	15.99	NICOL	200	600			3,063	3,063
114216	Gowganda	41P106051	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.75	NICOL	400	1,200				
114383	Gowganda	41P106248	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.77	NICOL	400	1,200				
114384	Gowganda	41P106266	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.77	NICOL	400	1,200				
121625	Gowganda	41P106265	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.77	NICOL	400	600				
122727	Gowganda	41P106290	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.77	NICOL	400	1,200				
131900	Gowganda	41P106246	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.77	NICOL	400	1,200				
133025	Gowganda	41P106263	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.77	NICOL	400	600				
133212	Gowganda	41P106275	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.77	LAWSON,NICOL	400	1,200				
133213	Gowganda	41P106294	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.77	NICOL	400	1,200				
135340	Gowganda	41P106182	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.76	NICOL	400	1,200				
144693	Gowganda	41P10K340	BCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	18.38	HAULTAIN	200	600			941	941
144694	Gowganda	41P10K380	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	4.51	HAULTAIN	200	600			941	941
147290	Gowganda	41P10391	BCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	7.84	HAULTAIN,NICOL	200	600				PL-19-000141
147291	Gowganda	41P106010	BCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	5.88	NICOL	200	600				
150184	Gowganda	41P106270	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.77	NICOL	400	1,200				
158519	Gowganda	41P106189	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.76	NICOL	400	1,200			12,284	12,284
158520	Gowganda	41P106210	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.76	NICOL	400	1,200				
161342	Gowganda	41P106013	BCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	2.49	NICOL	200	600				
162472	Gowganda	41P106170	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.76	NICOL	400	800				
166158	Gowganda	41P10390	BCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	2.12	HAULTAIN,NICOL	200	600				
166659	Gowganda	41P106053	BCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	2.31	NICOL	200	600				
166660	Gowganda	41P106052	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.75	NICOL	400	1,200				
168377	Gowganda	41P106162	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.76	NICOL	400	1,200				
168378	Gowganda	41P106181	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.76	NICOL	400	1,200				
168379	Gowganda	41P106201	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.76	NICOL	400	800				
172977	Gowganda	41P106192	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.76	NICOL	400	1,200				
175844	Gowganda	41P106128	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.76	NICOL	400	1,200				
181317	Gowganda	41P106141	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.76	NICOL	400	1,200				
184492	Gowganda	41P10K300	BCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	2.73	HAULTAIN	200	600			437	437
186729	Gowganda	41P106308	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.77	NICOL	400	1,200				
187062	Gowganda	41P106314	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.77	NICOL	400	1,200				
187360	Gowganda	41P10F160	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.76	NICOL	400	1,200			874	874
191029	Gowganda	41P106171	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.76	NICOL	400	800				
191030	Gowganda	41P106191	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.76	NICOL	400	1,200				
191031	Gowganda	41P106230	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.77	NICOL	400	1,200				
195457	Gowganda	41P106071	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.75	NICOL	400	800				
197813	Gowganda	41P106244	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.77	NICOL	400	1,200				
198936	Gowganda	41P106291	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.77	NICOL	400	1,200				
198937	Gowganda	41P106311	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.77	NICOL	400	1,200				
205152	Gowganda	41P106224	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.77	NICOL	400	1,200				
210510	Gowganda	41P106190	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.76	NICOL	400	1,200			410	410
222224	Gowganda	41P10K360	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	18.33	HAULTAIN	200	600			940	940
232170	Gowganda	41P10392	BCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	7.69	HAULTAIN,NICOL	200	600				PL-19-000141
232171	Gowganda	41P106011	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.75	NICOL	400	1,200				
232172	Gowganda	41P106073	BCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	0.19	NICOL	200	600				
236744	Gowganda	41P10G161	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.76	NICOL	400	1,200				
237882	Gowganda	41P106029	BCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	7.11	NICOL	200	600				
241910	Gowganda	41P106169	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.76	NICOL	400	1,200			642	642
245112	Gowganda	41P106274	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.77	NICOL	400	1,200				
245113	Gowganda	41P106315	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.77	LAWSON,NICOL	400	1,200				
246178	Gowganda	41P106269	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP	21.77	NICOL	400	1,200				
246179	Gowganda	41P106292	SCMC	Active	2021-12-15	2021-12-15	2021-0									

326431	Gowganda	41P10G231	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP.	21.77	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
330051	Gowganda	41P10G247	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP.	21.77	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
330437	Gowganda	41P10F200	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
332336	Gowganda	41P10G033	BCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP.	2.40	NICOL	\$	200	\$	600	\$	-	\$	-	\$	-	
333009	Gowganda	41P10G254	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP.	21.77	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
340367	Gowganda	41P10G223	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP.	21.77	NICOL	\$	400	\$	800	\$	-	\$	-	\$	-	
340983	Gowganda	41P10G312	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP.	21.77	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
342798	Gowganda	41P10F180	SCMC	Active	2021-12-15	2021-12-15	2021-07-15	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
106953	Gowganda	41P10G205	SCMC	Active	2022-04-10	2022-04-10	2021-11-10	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
106954	Gowganda	41P10G204	SCMC	Active	2022-04-10	2022-04-10	2021-11-10	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
112031	Gowganda	41P10G207	SCMC	Active	2022-04-10	2022-04-10	2021-11-10	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
123872	Gowganda	41P10G143	SCMC	Active	2022-04-10	2022-04-10	2021-11-10	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
134529	Gowganda	41P10G227	SCMC	Active	2022-04-10	2022-04-10	2021-11-10	(100) TRANSITION METALS CORP.	21.77	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
139679	Gowganda	41P10G187	SCMC	Active	2022-04-10	2022-04-10	2021-11-10	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
158521	Gowganda	41P10G228	SCMC	Active	2022-04-10	2022-04-10	2021-11-10	(100) TRANSITION METALS CORP.	21.77	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
175845	Gowganda	41P10G168	SCMC	Active	2022-04-10	2022-04-10	2021-11-10	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
181318	Gowganda	41P10G163	SCMC	Active	2022-04-10	2022-04-10	2021-11-10	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	642	\$	642	
192720	Gowganda	41P10G165	SCMC	Active	2022-04-10	2022-04-10	2021-11-10	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
192721	Gowganda	41P10G164	SCMC	Active	2022-04-10	2022-04-10	2021-11-10	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
199226	Gowganda	41P10G226	SCMC	Active	2022-04-10	2022-04-10	2021-11-10	(100) TRANSITION METALS CORP.	21.77	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
203728	Gowganda	41P10G208	SCMC	Active	2022-04-10	2022-04-10	2021-11-10	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
205151	Gowganda	41P10G225	SCMC	Active	2022-04-10	2022-04-10	2021-11-10	(100) TRANSITION METALS CORP.	21.77	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
210511	Gowganda	41P10G188	SCMC	Active	2022-04-10	2022-04-10	2021-11-10	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
217169	Gowganda	41P10G183	SCMC	Active	2022-04-10	2022-04-10	2021-11-10	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
235189	Gowganda	41P10G203	SCMC	Active	2022-04-10	2022-04-10	2021-11-10	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	800	\$	-	\$	-	\$	-	
242102	Gowganda	41P10G145	SCMC	Active	2022-04-10	2022-04-10	2021-11-10	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
288540	Gowganda	41P10G186	SCMC	Active	2022-04-10	2022-04-10	2021-11-10	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
296343	Gowganda	41P10G146	SCMC	Active	2022-04-10	2022-04-10	2021-11-10	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
309317	Gowganda	41P10G144	SCMC	Active	2022-04-10	2022-04-10	2021-11-10	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
309339	Gowganda	41P10G184	SCMC	Active	2022-04-10	2022-04-10	2021-11-10	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
309340	Gowganda	41P10G206	SCMC	Active	2022-04-10	2022-04-10	2021-11-10	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
315347	Gowganda	41P10G185	SCMC	Active	2022-04-10	2022-04-10	2021-11-10	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
337396	Gowganda	41P10G167	SCMC	Active	2022-04-10	2022-04-10	2021-11-10	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
337397	Gowganda	41P10G166	SCMC	Active	2022-04-10	2022-04-10	2021-11-10	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
105006	Gowganda	41P10F060	BCMC	Active	2022-06-04	2022-06-04	2022-01-04	(100) TRANSITION METALS CORP.	1.20	NICOL	\$	200	\$	400	\$	-	\$	771	\$	771	PR-19-000274, PL-19-000140
162610	Gowganda	41P10F080	BCMC	Active	2022-06-04	2022-06-04	2022-01-04	(100) TRANSITION METALS CORP.	4.20	NICOL	\$	200	\$	400	\$	-	\$	2,312	\$	2,312	PR-19-000274, PL-19-000140
175313	Gowganda	41P10F098	BCMC	Active	2022-06-04	2022-06-04	2022-01-04	(100) TRANSITION METALS CORP.	6.16	NICOL	\$	200	\$	400	\$	-	\$	771	\$	771	PL-19-000140
192653	Gowganda	41P10F079	SCMC	Active	2022-06-04	2022-06-04	2022-01-04	(100) TRANSITION METALS CORP.	21.75	NICOL	\$	200	\$	400	\$	-	\$	12,327	\$	12,327	PR-19-000274, PL-19-000140
192654	Gowganda	41P10F099	SCMC	Active	2022-06-04	2022-06-04	2022-01-04	(100) TRANSITION METALS CORP.	21.75	NICOL	\$	400	\$	600	\$	-	\$	-	\$	-	PL-19-000140
229871	Gowganda	41P10F059	BCMC	Active	2022-06-04	2022-06-04	2022-01-04	(100) TRANSITION METALS CORP.	6.20	NICOL	\$	200	\$	400	\$	-	\$	\$270,881	\$	\$270,881	PR-19-000274, PL-19-000140
229872	Gowganda	41P10F100	BCMC	Active	2022-06-04	2022-06-04	2022-01-04	(100) TRANSITION METALS CORP.	1.94	NICOL	\$	200	\$	400	\$	-	\$	-	\$	-	PL-19-000140
288468	Gowganda	41P10F058	BCMC	Active	2022-06-04	2022-06-04	2022-01-04	(100) TRANSITION METALS CORP.	3.83	NICOL	\$	200	\$	400	\$	-	\$	3,082	\$	3,082	PR-19-000274, PL-19-000140
323856	Gowganda	41P10F078	SCMC	Active	2022-06-04	2022-06-04	2022-01-04	(100) TRANSITION METALS CORP.	21.75	NICOL	\$	200	\$	400	\$	-	\$	8,090	\$	8,090	PR-19-000274, PL-19-000140
301073	Gowganda	41P10G008	BCMC	Active	2022-06-06	2022-06-06	2022-01-06	(100) TRANSITION METALS CORP.	16.01	NICOL	\$	200	\$	600	\$	-	\$	60	\$	60	
331122	Gowganda	41P10G009	BCMC	Active	2022-06-06	2022-06-06	2022-01-06	(100) TRANSITION METALS CORP.	0.32	NICOL	\$	200	\$	600	\$	-	\$	-	\$	-	
340449	Gowganda	41P10G007	BCMC	Active	2022-06-06	2022-06-06	2022-01-06	(100) TRANSITION METALS CORP.	5.49	NICOL	\$	200	\$	600	\$	-	\$	35	\$	35	PR-21-000057
128000	Gowganda	41P10G061	SCMC	Active	2022-07-13	2022-07-13	2022-02-13	(100) TRANSITION METALS CORP.	21.75	NICOL	\$	400	\$	1,200	\$	-	\$	2,336	\$	2,336	PL-19-000140
128001	Gowganda	41P10G083	SCMC	Active	2022-07-13	2022-07-13	2022-02-13	(100) TRANSITION METALS CORP.	21.75	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
139969	Gowganda	41P10G063	SCMC	Active	2022-07-13	2022-07-13	2022-02-13	(100) TRANSITION METALS CORP.	19.51	NICOL	\$	200	\$	600	\$	-	\$	410	\$	410	
143162	Gowganda	41P10G043	BCMC	Active	2022-07-13	2022-07-13	2022-02-13	(100) TRANSITION METALS CORP.	5.87	NICOL	\$	200	\$	600	\$	-	\$	-	\$	-	
150502	Gowganda	41P10G048	BCMC	Active	2022-07-13	2022-07-13	2022-02-13	(100) TRANSITION METALS CORP.	8.31	NICOL	\$	200	\$	600	\$	-	\$	-	\$	-	
151753	Gowganda	41P10G121	SCMC	Active	2022-07-13	2022-07-13	2022-02-13	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	1,107	\$	1,107	
154516	Gowganda	41P10G102	SCMC	Active	2022-07-13	2022-07-13	2022-02-13	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
156388	Gowganda	41P10G110	SCMC	Active	2022-07-13	2022-07-13	2022-02-13	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	800	\$	-	\$	-	\$	-	
156389	Gowganda	41P10G107	SCMC	Active	2022-07-13	2022-07-13	2022-02-13	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
161819	Gowganda	41P10G065	BCMC	Active	2022-07-13	2022-07-13	2022-02-13	(100) TRANSITION METALS CORP.	7.65	NICOL	\$	200	\$	600	\$	-	\$	7,209	\$	7,209	
161820	Gowganda	41P10G105	SCMC	Active	2022-07-13	2022-07-13	2022-02-13	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
168675	Gowganda	41P10G089	SCMC	Active	2022-07-13	2022-07-13	2022-02-13	(100) TRANSITION METALS CORP.	21.75	NICOL	\$	400	\$	1,200	\$	-	\$	2,965	\$	2,965	
174668	Gowganda	41P10G081	SCMC	Active	2022-07-13	2022-07-13	2022-02-13	(100) TRANSITION METALS CORP.	21.75	NICOL	\$	400	\$	1,200	\$	-	\$	642	\$	642	
175843	Gowganda	41P10G106	SCMC	Active	2022-07-13	2022-07-13	2022-02-13	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	8,934	\$	8,934	
177006	Gowganda	41P10G084	SCMC	Active	2022-07-13	2022-07-13	2022-02-13	(100) TRANSITION METALS CORP.	21.75	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
181316	Gowganda	41P10G122	SCMC	Active	2022-07-13	2022-07-13	2022-02-13	(100) TRANSITION METALS CORP.	21.76	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
185759	Gowganda	41P10G068	SCMC	Active	2022-07-13	2022-07-13	2022-02-13	(100) TRANSITION METALS CORP.	21.75	NICOL	\$	400	\$	1,200	\$	-	\$	-	\$	-	
185760	Gowganda	41P10G088	SCMC	Active	2022-07-13	2022-07-13															

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																						
GBF21019	517976.283	5278009.153	30	229.35	-43.79	30m	NQ	41P10F59	N/A	229871	2021-08-20	2021-08-21	G4 Diamond Drilling	Canadian Exploration Services Ltd. 14579 Government Road Larder Lake, Ontario, Canada P0K 1L0	1.77	Left in Place	Metal Collar Cap	No	No	2021-08-21	2021-08-21	N.Kastek/R.Wells
GBF21020	517976.8594	5278010.0442	70	254.56	-45.21	70m	NQ	41P10F59	N/A	229871	2021-08-21	2021-08-21	G4 Diamond Drilling	Canadian Exploration Services Ltd. 14579 Government Road Larder Lake, Ontario, Canada P0K 1L0	2.24	Left in Place	Metal Collar Cap	No	No	2021-08-22	2021-08-22	N.Kastek/R.Wells
GBF21021	517977.2370	5278010.1593	42	257.63	-64.73	42m	NQ	41P10F59	N/A	229871	2021-08-21	2021-08-22	G4 Diamond Drilling	Canadian Exploration Services Ltd. 14579 Government Road Larder Lake, Ontario, Canada P0K 1L0	1.30	Left in Place	Metal Collar Cap	No	No	2021-08-22	2021-08-22	N.Kastek/R.Wells
GBF21022	517990.6358	5278012.0335	51	254.8	-49.17	51m	NQ	41P10F59	N/A	229871	2021-08-22	2021-08-22	G4 Diamond Drilling	Canadian Exploration Services Ltd. 14579 Government Road Larder Lake, Ontario, Canada P0K 1L1	1.78	Left in Place	Metal Collar Cap	No	No	2021-08-23	2021-08-23	N.Kastek/R.Wells









ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
 www.alsglobal.com/geochemistry

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 – D)  
 Plus Appendix Pages  
 Finalized Date: 13-SEP-2021  
 This copy reported on  
 16-SEP-2021  
 Account: BMRPLLBW

**CERTIFICATE SD21227999**

Project: Gowganda Transition –GBF21–019  
 P.O. No.: GBF21–019  
 This report is for 11 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
------------------------------	-----------------------------------	------------

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



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
 www.alsglobal.com/geochemistry

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

Page: 2 – A  
 Total # Pages: 2 (A – D)  
 Plus Appendix Pages  
 Finalized Date: 13-SEP-2021  
 Account: BMRPLLBW

Project: Gowganda Transition –GBF21–019

**CERTIFICATE OF ANALYSIS SD21227999**

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
19039		0.84	0.62	1.07	46.1	40	0.86	1.78	2.56	0.37	7.69	23.8	25	1.82	252	12.65
19040		0.98	0.64	1.36	33.1	50	0.84	1.07	2.40	0.28	6.99	29.5	29	1.84	292	12.30
19041		0.12	4.38	5.50	14.5	120	0.57	0.95	3.52	2.13	17.50	994	267	0.76	>10000	18.25
19042		2.15	0.80	0.65	20.1	30	1.03	0.81	2.28	0.20	7.26	21.1	18	1.27	187.0	18.90
19043		2.02	0.40	1.43	30.1	30	1.03	0.43	3.43	0.40	6.52	14.4	28	0.89	91.1	14.45
19044		1.97	0.38	1.28	7.0	50	0.84	0.46	3.41	0.14	20.7	43.2	73	0.68	209	15.55
19045		1.94	1.00	3.23	522	150	1.13	10.10	2.56	0.05	14.30	357	48	1.37	258	7.54
19046		2.03	0.04	8.72	4.8	580	1.85	0.11	1.11	<0.02	26.7	12.8	74	3.10	11.9	3.83
19047		2.04	0.02	7.17	3.4	560	1.07	0.08	0.77	<0.02	27.4	12.1	66	2.47	24.8	3.50
19048		1.74	0.13	8.26	5.0	710	1.31	0.08	0.60	<0.02	24.6	10.2	65	3.86	39.4	2.86
19049		1.47	0.16	8.19	4.2	520	1.43	0.11	0.45	0.02	14.55	11.8	54	2.67	309	2.87



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
 www.alsglobal.com/geochemistry

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

Page: 2 – B  
 Total # Pages: 2 (A – D)  
 Plus Appendix Pages  
 Finalized Date: 13-SEP-2021  
 Account: BMRPLLBW

Project: Gowganda Transition –GBF21–019

**CERTIFICATE OF ANALYSIS SD21227999**

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
19039		3.83	<0.05	0.4	0.082	0.09	3.9	5.8	2.17	921	3.03	0.27	0.4	21.4	290	102.0
19040		4.32	<0.05	0.4	0.080	0.10	3.5	5.7	2.26	926	3.49	0.53	0.4	22.0	280	56.2
19041		12.20	0.29	1.3	0.122	0.32	7.4	9.3	3.99	1000	4.28	1.20	5.2	>10000	460	14.4
19042		2.70	0.05	0.3	0.123	0.08	3.6	1.6	2.13	908	5.49	0.06	0.5	19.0	620	25.3
19043		4.67	0.05	0.4	0.056	0.09	3.5	8.2	2.24	638	2.61	0.62	0.3	10.6	540	48.1
19044		4.54	0.05	0.1	0.063	0.15	13.7	12.0	2.82	1460	4.74	0.21	0.3	54.1	360	35.3
19045		9.20	<0.05	1.3	0.038	0.80	6.9	35.7	1.94	673	55.0	0.41	1.9	68.1	330	46.1
19046		20.1	0.09	3.9	0.036	3.15	12.2	74.0	2.09	397	1.14	1.39	6.2	18.0	480	1.8
19047		16.65	0.08	3.1	0.031	2.22	13.9	63.9	1.66	300	1.42	1.36	4.8	15.8	640	2.4
19048		18.50	0.08	3.6	0.024	3.22	10.8	69.3	1.15	189	0.86	0.97	5.4	14.3	520	3.2
19049		19.70	0.08	3.5	0.037	2.45	6.0	54.1	1.32	187	0.64	2.80	4.2	17.1	410	2.7



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
 www.alsglobal.com/geochemistry

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

Page: 2 – C  
 Total # Pages: 2 (A – D)  
 Plus Appendix Pages  
 Finalized Date: 13-SEP-2021  
 Account: BMRPLLBW

Project: Gowganda Transition –GBF21–019

**CERTIFICATE OF ANALYSIS SD21227999**

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
19039		4.6	<0.002	3.08	1.21	1.6	1	0.6	30.6	<0.05	0.58	0.20	0.028	0.12	0.1	11
19040		4.6	<0.002	2.96	1.15	1.6	2	0.5	49.2	<0.05	0.61	0.17	0.029	0.09	0.1	12
19041		11.2	0.052	8.10	3.78	8.8	22	2.5	182.0	0.30	5.17	1.08	0.525	0.18	0.3	78
19042		4.9	0.004	2.51	0.52	1.8	4	1.1	11.9	<0.05	0.88	0.23	0.028	0.19	0.1	14
19043		3.4	<0.002	0.58	0.37	1.1	1	0.4	65.5	<0.05	0.22	0.11	0.025	0.04	0.2	10
19044		5.9	<0.002	0.91	0.21	9.4	1	0.4	28.0	<0.05	0.26	0.04	0.046	0.05	0.3	55
19045		28.1	<0.002	0.66	0.62	8.0	1	0.5	48.4	0.16	0.14	0.60	0.116	0.18	0.5	48
19046		101.0	<0.002	0.02	0.19	12.9	<1	1.1	136.0	0.50	<0.05	1.80	0.347	0.42	0.5	96
19047		80.8	<0.002	0.02	0.15	9.7	1	0.8	162.0	0.38	<0.05	1.49	0.277	0.31	0.5	78
19048		109.5	<0.002	0.08	0.17	10.4	<1	0.9	154.0	0.45	0.07	1.75	0.308	0.42	0.5	73
19049		79.0	<0.002	0.04	0.11	9.4	<1	0.7	138.0	0.35	<0.05	1.30	0.260	0.31	0.5	70

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



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
 www.alsglobal.com/geochemistry

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

Page: 2 – D  
 Total # Pages: 2 (A – D)  
 Plus Appendix Pages  
 Finalized Date: 13-SEP-2021  
 Account: BMRPLLBW

Project: Gowganda Transition –GBF21–019

<b>CERTIFICATE OF ANALYSIS SD21227999</b>
---

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 %
19039		0.3	5.1	150	17.4			71.4	97.9
19040		0.3	4.6	138	18.4				95.8
19041		2.5	9.7	144	52.1	1.610	4.65		
19042		0.1	7.5	139	10.8				
19043		0.2	5.7	143	12.3				
19044		0.4	8.0	98	6.2				
19045		0.4	8.9	55	53.7				
19046		0.8	15.3	42	160.0				
19047		0.6	14.2	32	126.0				
19048		0.6	13.2	23	148.5				
19049		0.7	8.1	28	132.5				



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
 www.alsglobal.com/geochemistry

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

Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 13-SEP-2021  
 Account: BMRPLLBW

Project: Gowganda Transition –GBF21–019

**CERTIFICATE OF ANALYSIS SD21227999**

	<b>CERTIFICATE COMMENTS</b>								
	<b>ANALYTICAL COMMENTS</b>								
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61								
	<b>LABORATORY ADDRESSES</b>								
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: 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:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<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						





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
 www.alsglobal.com/geochemistry

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 – D)  
 Plus Appendix Pages  
 Finalized Date: 11-SEP-2021  
 This copy reported on  
 16-SEP-2021  
 Account: BMRPLLBW

**CERTIFICATE SD21227996**

Project: Gowganda Transition –GBF21–020  
 P.O. No.: GBF21–020  
 This report is for 19 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
------------------------------	-----------------------------------	------------

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



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
 www.alsglobal.com/geochemistry

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

Page: 2 – A  
 Total # Pages: 2 (A – D)  
 Plus Appendix Pages  
 Finalized Date: 11-SEP-2021  
 Account: BMRPLLBW

Project: Gowganda Transition –GBF21–020

**CERTIFICATE OF ANALYSIS SD21227996**

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
19050		1.95	0.56	9.11	15.5	400	1.54	0.25	3.23	0.03	5.26	40.7	321	1.83	29.6	8.28
19051		2.21	0.95	1.43	30.7	40	1.18	1.10	4.93	0.22	5.98	58.4	59	0.62	319	19.65
19052		2.14	0.37	0.37	9.9	20	1.15	0.52	3.55	0.07	4.72	14.8	16	0.48	92.9	20.6
19053		2.15	1.01	1.10	32.1	20	1.47	0.99	3.02	0.23	5.36	18.8	41	1.03	157.5	20.6
19054		1.90	0.78	7.18	14.6	260	1.78	1.55	0.83	0.03	18.35	14.0	58	1.65	109.0	5.48
19055		0.98	0.36	6.45	8.6	80	0.66	0.26	4.48	3.15	24.2	13.3	29	0.71	69.4	3.30
19056		2.18	0.42	10.00	30.0	560	2.32	0.90	0.78	0.17	24.6	21.4	77	2.62	322	4.02
19057		1.91	0.30	7.54	71.1	310	1.35	1.00	2.73	0.05	27.5	54.4	64	1.59	171.5	6.06
19058		1.22	0.02	7.24	3.5	340	1.09	0.05	1.19	<0.02	25.9	8.9	62	2.17	18.8	2.76
19059		0.77	0.95	6.50	28.6	310	1.51	5.79	1.23	0.23	24.1	63.6	57	1.81	991	6.59
19060		0.90	0.89	7.52	22.0	350	1.49	5.61	1.09	0.10	28.8	61.4	69	2.27	761	7.36
19061		0.12	4.35	5.64	14.6	120	0.61	0.94	3.69	2.21	18.25	1010	285	0.82	>10000	18.60
19062		1.52	1.12	7.36	6.7	340	1.36	1.74	1.10	2.40	20.5	27.3	64	2.22	117.5	4.07
19063		1.98	0.26	7.64	5.2	300	1.21	1.42	1.58	0.17	28.0	24.4	66	1.83	153.0	3.95
19064		1.74	0.08	7.92	5.2	370	1.22	0.26	3.69	0.03	26.7	15.9	69	1.69	87.5	4.46
19065		2.01	0.08	8.16	5.2	270	0.94	0.21	2.02	0.03	22.1	15.4	53	1.32	47.7	4.96
19066		1.92	0.30	8.02	110.0	230	1.33	4.25	1.71	<0.02	12.35	75.1	36	1.42	49.8	2.77
260		1.96	0.03	7.37	3.5	280	1.11	0.09	1.36	<0.02	26.7	8.9	66	2.11	26.2	2.68
261		1.05	0.01	7.67	2.2	340	1.23	0.05	1.56	0.02	27.8	10.6	63	2.24	50.7	3.36



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
 www.alsglobal.com/geochemistry

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

Page: 2 – B  
 Total # Pages: 2 (A – D)  
 Plus Appendix Pages  
 Finalized Date: 11-SEP-2021  
 Account: BMRPLLBW

Project: Gowganda Transition –GBF21–020

**CERTIFICATE OF ANALYSIS SD21227996**

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
19050		19.20	0.05	0.4	0.056	1.37	2.5	110.5	4.17	1360	3.47	1.03	1.0	85.5	200	4.7
19051		4.47	0.05	0.2	0.077	0.10	3.3	16.0	3.10	1680	10.70	0.17	0.4	54.7	560	64.3
19052		1.81	0.07	0.1	0.050	0.04	2.4	3.1	2.34	2010	2.33	0.09	0.3	28.0	560	19.0
19053		3.45	0.06	0.2	0.078	0.03	2.7	17.7	2.77	1520	2.69	0.05	0.4	26.5	650	112.0
19054		16.70	0.05	3.2	0.055	1.48	7.3	75.5	2.40	539	1.24	1.03	5.0	22.4	400	16.8
19055		21.2	0.07	2.0	0.039	0.23	11.9	12.6	1.08	576	0.88	4.36	11.4	16.5	260	91.6
19056		26.1	0.05	5.4	0.081	2.79	10.0	79.6	1.79	294	4.49	2.49	8.4	20.8	620	298
19057		18.80	0.05	3.5	0.055	1.13	13.1	60.8	1.93	929	3.22	1.63	6.0	25.5	420	24.2
19058		16.65	<0.05	3.1	0.028	1.93	12.4	51.2	1.26	425	0.33	1.27	5.5	12.4	500	2.5
19059		16.80	0.05	3.1	0.082	1.17	11.5	64.6	2.23	607	2.53	1.32	4.6	43.3	320	74.8
19060		18.85	0.05	3.7	0.084	1.36	13.7	69.2	2.52	688	2.35	1.49	5.5	40.9	420	44.2
19061		12.65	0.21	1.4	0.125	0.33	8.1	10.3	4.18	1050	5.89	1.23	5.4	>10000	490	15.2
19062		18.40	0.05	3.5	0.058	1.73	9.5	59.9	2.11	578	0.54	1.74	5.9	39.1	480	573
19063		17.05	0.06	3.4	0.044	1.48	13.0	51.6	1.73	541	1.54	2.08	6.0	25.3	460	17.1
19064		20.5	<0.05	3.8	0.051	1.76	12.1	49.3	1.28	895	0.80	0.92	6.7	23.9	460	5.0
19065		20.1	<0.05	3.1	0.032	1.08	10.2	40.5	1.22	1200	2.31	2.73	4.2	21.5	370	5.9
19066		21.2	<0.05	2.8	0.020	0.85	5.7	23.3	0.91	436	26.8	4.24	2.5	31.4	290	7.2
260		17.40	<0.05	3.3	0.029	1.72	12.9	48.2	1.09	430	0.48	1.63	5.7	12.9	540	3.2
261		17.60	0.06	3.5	0.036	1.64	13.2	55.5	1.75	510	0.55	1.89	6.1	15.7	430	3.3



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
 www.alsglobal.com/geochemistry

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

Page: 2 – C  
 Total # Pages: 2 (A – D)  
 Plus Appendix Pages  
 Finalized Date: 11-SEP-2021  
 Account: BMRPLLW

Project: Gowganda Transition –GBF21–020

**CERTIFICATE OF ANALYSIS SD21227996**

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
19050		25.9	0.002	0.08	0.33	52.8	1	0.4	262	0.06	0.46	0.08	0.358	0.26	0.1	271
19051		3.4	0.003	2.36	0.66	14.4	2	0.5	45.6	<0.05	0.72	0.08	0.054	0.10	0.1	51
19052		1.3	<0.002	0.99	0.37	9.8	1	0.3	16.8	<0.05	0.29	0.08	0.013	0.02	0.1	23
19053		2.0	<0.002	1.82	0.86	8.0	2	0.4	16.5	<0.05	0.85	0.08	0.043	0.02	0.1	39
19054		48.9	<0.002	0.51	0.25	12.8	<1	0.8	160.5	0.41	0.59	1.61	0.272	0.23	0.5	88
19055		5.4	<0.002	0.17	0.22	9.5	1	0.6	156.0	0.27	2.99	7.86	0.206	0.05	0.6	64
19056		78.1	<0.002	0.17	0.29	19.0	1	1.7	187.0	0.65	0.28	2.31	0.463	0.40	0.8	136
19057		33.3	<0.002	0.50	0.62	16.4	1	1.1	211	0.49	0.12	1.61	0.310	0.23	0.5	102
19058		65.4	<0.002	0.01	0.15	10.4	<1	0.8	207	0.47	<0.05	1.64	0.295	0.31	0.4	78
19059		44.3	0.002	1.82	0.65	15.7	1	0.9	132.5	0.38	0.45	1.41	0.243	0.22	0.8	87
19060		49.5	<0.002	1.72	0.60	19.0	1	1.1	154.0	0.45	0.42	1.66	0.292	0.27	0.9	103
19061		11.9	0.055	8.37	3.23	9.1	24	2.5	185.0	0.33	4.64	1.08	0.543	0.18	0.4	80
19062		52.0	<0.002	0.05	0.26	12.0	1	1.1	156.5	0.49	<0.05	1.62	0.307	0.30	0.6	93
19063		50.0	<0.002	0.04	0.15	13.0	<1	0.9	205	0.49	0.05	1.73	0.319	0.26	0.7	86
19064		40.1	<0.002	0.03	0.28	14.1	1	1.2	324	0.56	<0.05	1.53	0.347	0.31	0.6	106
19065		32.7	<0.002	0.14	0.17	13.0	<1	0.7	296	0.35	0.05	1.26	0.250	0.17	0.4	84
19066		25.5	0.002	0.02	0.15	7.4	1	0.4	314	0.20	<0.05	0.80	0.182	0.17	0.4	49
260		57.0	<0.002	0.01	0.17	11.0	1	1.0	254	0.47	<0.05	1.73	0.302	0.26	0.5	73
261		57.3	<0.002	0.01	0.19	11.5	<1	0.8	256	0.50	<0.05	1.73	0.321	0.28	0.5	84



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
 www.alsglobal.com/geochemistry

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

Page: 2 – D  
 Total # Pages: 2 (A – D)  
 Plus Appendix Pages  
 Finalized Date: 11-SEP-2021  
 Account: BMRPLLBW

Project: Gowganda Transition –GBF21–020

**CERTIFICATE OF ANALYSIS SD21227996**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Cu-OG62	Ni-OG62	CRU-QC	PUL-QC
		W ppm	Y ppm	Zn ppm	Zr ppm	Cu %	Ni %	Pass2mm %	Pass75um %
		0.1	0.1	2	0.5	0.001	0.001	0.01	0.01
19050		0.8	13.5	118	13.2			74.5	93.0
19051		0.3	9.1	137	9.4				99.4
19052		0.2	7.3	66	4.8				
19053		0.3	8.6	112	6.2				
19054		1.0	11.4	50	130.0				
19055		3.7	15.2	655	67.5				
19056		2.2	17.4	83	209				
19057		0.8	14.3	86	138.5				
19058		0.7	11.9	43	125.5				
19059		0.8	11.9	97	120.5				
19060		0.9	15.0	75	149.0				
19061		2.4	9.8	147	53.4	1.635	4.66		
19062		0.8	11.4	425	141.5				
19063		0.9	14.1	53	139.0				
19064		0.9	14.8	60	149.0				
19065		0.7	11.4	67	112.5				
19066		0.6	7.0	33	93.8				
260		0.8	12.6	39	131.0				
261		0.8	14.0	50	144.5				



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
 www.alsglobal.com/geochemistry

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

Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 11-SEP-2021  
 Account: BMRPLLBW

Project: Gowganda Transition –GBF21–020

**CERTIFICATE OF ANALYSIS SD21227996**

	<b>CERTIFICATE COMMENTS</b>								
	<b>ANALYTICAL COMMENTS</b>								
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61								
	<b>LABORATORY ADDRESSES</b>								
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						



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
 www.alsglobal.com/geochemistry

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 – D)  
 Plus Appendix Pages  
 Finalized Date: 11-SEP-2021  
 This copy reported on  
 16-SEP-2021  
 Account: BMRPLBW

**CERTIFICATE SD21227994**

Project: Gowganda Transition –GBF21–021  
 P.O. No.: GBF21–021  
 This report is for 10 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
------------------------------	-----------------------------------	------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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	

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



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
 www.alsglobal.com/geochemistry

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

Page: 2 – A  
 Total # Pages: 2 (A – D)  
 Plus Appendix Pages  
 Finalized Date: 11-SEP-2021  
 Account: BMRPLLBW

Project: Gowganda Transition –GBF21–021

**CERTIFICATE OF ANALYSIS SD21227994**

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
19106		0.83	0.17	7.36	10.9	220	0.89	5.58	1.51	0.03	4.62	20.3	22	0.67	5.0	1.77
19107		1.41	3.13	3.02	371	90	1.45	3.20	3.14	5.53	6.66	189.5	17	1.61	841	16.15
19108		1.30	13.35	4.19	4020	60	0.94	230	4.45	7.32	8.59	2010	37	0.71	4380	5.92
19109		1.71	0.56	8.37	26.3	540	0.85	0.74	5.80	3.02	6.27	41.8	256	3.34	75.0	8.04
19110		1.74	0.20	8.69	12.9	310	0.93	0.62	4.70	0.14	2.88	42.2	287	1.60	47.1	8.36
19111		1.32	0.70	1.61	15.8	80	1.07	1.07	4.79	0.05	5.03	54.0	47	1.43	550	20.0
19112		1.24	0.72	1.30	27.1	20	0.83	4.72	4.42	0.06	4.65	48.6	29	0.80	521	15.95
19113		1.17	0.01	7.03	4.7	260	1.37	0.21	0.41	<0.02	13.90	21.1	61	1.43	6.9	5.41
19114		1.74	0.27	8.58	8.9	30	0.88	0.69	0.38	<0.02	14.75	10.3	45	0.27	16.6	2.50
19115		1.91	0.17	8.89	5.0	360	1.56	0.41	0.30	0.03	7.04	13.2	65	1.52	119.0	4.94





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
 www.alsglobal.com/geochemistry

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

Page: 2 – B  
 Total # Pages: 2 (A – D)  
 Plus Appendix Pages  
 Finalized Date: 11-SEP-2021  
 Account: BMRPLLBW

Project: Gowganda Transition –GBF21–021

**CERTIFICATE OF ANALYSIS SD21227994**

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
19106		18.30	<0.05	1.9	0.015	0.77	1.6	23.6	0.80	178	37.8	4.39	0.8	14.5	220	16.4
19107		8.06	0.07	0.9	0.126	0.19	3.5	16.8	2.24	1180	18.45	1.13	0.8	35.7	370	563
19108		10.15	0.05	0.9	0.096	0.20	4.9	23.2	1.20	707	791	2.15	0.6	505	230	2390
19109		15.65	0.06	0.6	0.101	1.76	4.6	68.2	4.49	1580	4.00	1.70	0.8	104.0	170	463
19110		16.25	0.05	0.4	0.066	1.15	1.2	78.1	4.24	1760	10.85	1.25	0.8	91.2	180	22.0
19111		3.73	0.08	0.2	0.072	0.18	2.6	16.4	3.59	2010	3.61	0.20	0.4	72.9	470	35.9
19112		3.97	0.06	0.4	0.080	0.04	2.5	18.0	2.93	1420	4.25	0.08	0.6	41.8	470	31.2
19113		20.6	<0.05	2.9	0.040	0.93	7.1	62.2	3.03	329	1.45	2.10	4.9	22.7	530	1.3
19114		18.35	0.05	3.3	0.012	0.19	5.5	27.0	1.32	164	4.66	7.11	6.4	17.0	420	4.0
19115		23.2	0.06	4.4	0.054	1.76	2.7	64.7	2.68	316	4.53	3.07	6.6	23.9	360	2.9



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
 www.alsglobal.com/geochemistry

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

Page: 2 – C  
 Total # Pages: 2 (A – D)  
 Plus Appendix Pages  
 Finalized Date: 11-SEP-2021  
 Account: BMRPLLBW

Project: Gowganda Transition –GBF21–021

**CERTIFICATE OF ANALYSIS SD21227994**

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
19106		17.5	<0.002	0.01	0.13	3.8	<1	0.3	370	0.06	<0.05	0.37	0.104	0.15	0.3	25
19107		8.4	0.007	4.02	1.18	3.5	3	0.6	102.0	0.06	1.70	0.29	0.067	0.12	0.4	25
19108		5.9	0.224	2.60	4.16	7.9	3	0.2	169.5	<0.05	0.98	0.23	0.083	0.96	1.6	44
19109		55.6	0.003	0.50	0.64	51.0	1	1.0	293	0.05	0.24	0.06	0.331	0.32	0.7	263
19110		25.7	0.004	0.13	0.54	51.7	<1	0.7	333	0.05	0.13	0.05	0.349	0.20	0.1	279
19111		7.6	0.002	4.61	0.38	12.3	5	0.4	42.8	<0.05	0.95	0.08	0.062	0.13	0.1	55
19112		1.7	0.002	2.69	0.57	5.5	2	0.4	21.3	<0.05	0.68	0.17	0.049	0.06	0.3	33
19113		34.9	<0.002	0.14	0.11	9.6	1	0.9	85.7	0.39	<0.05	1.47	0.284	0.12	0.5	74
19114		3.5	0.002	0.13	0.11	7.3	<1	0.9	45.7	0.36	0.14	1.58	0.259	0.03	1.3	57
19115		45.8	<0.002	0.06	0.16	13.7	<1	1.3	92.8	0.50	0.09	1.76	0.366	0.23	0.9	105



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
 www.alsglobal.com/geochemistry

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

Page: 2 – D  
 Total # Pages: 2 (A – D)  
 Plus Appendix Pages  
 Finalized Date: 11-SEP-2021  
 Account: BMRPLLBW

Project: Gowganda Transition –GBF21–021

**CERTIFICATE OF ANALYSIS SD21227994**

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	CRU-QC Pass2mm % 0.01	PUL-QC Pass75um % 0.01
19106		0.6	3.3	38	54.8	74.1	91.7
19107		0.3	7.6	1560	30.2		
19108		0.4	8.0	2240	31.5		
19109		0.9	15.6	937	15.2		
19110		1.4	15.1	146	9.2		
19111		0.4	10.1	78	7.8		
19112		0.3	8.2	63	16.3		
19113		1.7	8.1	49	119.5		
19114		0.4	9.3	23	124.5		
19115		2.3	10.7	44	178.5		



ALS Canada Ltd.  
2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: +1 604 984 0221 Fax: +1 604 984 0218  
www.alsglobal.com/geochemistry

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

Project: Gowganda Transition –GBF21–021

Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 11–SEP–2021  
Account: BMRPLLBW

**CERTIFICATE OF ANALYSIS SD21227994**

**CERTIFICATE COMMENTS**

**ANALYTICAL COMMENTS**

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.  
CRU–31 CRU–QC LOG–22 PUL–31  
PUL–QC SPL–21 WEI–21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
ME–MS61



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
 www.alsglobal.com/geochemistry

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 – D)  
 Plus Appendix Pages  
 Finalized Date: 14-SEP-2021  
 This copy reported on  
 16-SEP-2021  
 Account: BMRPLLBW

**CERTIFICATE SD21227989**

Project: Gowganda Transition –GBF21–022  
 P.O. No.: GBF21–022  
 This report is for 8 samples of Drill Core submitted to our lab in Sudbury, ON,  
 Canada on 27–AUG–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
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



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
 www.alsglobal.com/geochemistry

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

Page: 2 – A  
 Total # Pages: 2 (A – D)  
 Plus Appendix Pages  
 Finalized Date: 14-SEP-2021  
 Account: BMRPLLBW

Project: Gowganda Transition –GBF21–022

**CERTIFICATE OF ANALYSIS SD21227989**

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
19016		1.82	0.42	8.37	22.6	290	1.20	0.51	4.89	0.42	16.75	33.6	201	1.57	82.4	5.85
19017		2.05	0.59	2.12	16.8	60	0.68	1.01	3.46	0.12	4.84	12.6	15	0.56	482	15.00
19018		1.90	1.37	0.13	20.5	<10	0.58	1.44	4.34	0.19	2.69	6.3	10	0.30	686	23.3
19019		0.92	1.02	2.17	131.5	40	0.96	1.73	3.61	0.76	6.55	25.8	17	0.73	587	17.40
19020		0.76	0.96	2.66	116.5	40	0.99	1.39	3.23	1.64	11.30	11.6	17	0.90	485	16.30
19021		0.13	3.86	5.70	13.1	120	0.54	0.80	3.65	2.09	16.50	1020	277	0.76	>10000	18.75
19022		1.75	0.11	8.11	6.6	530	2.24	0.99	0.84	<0.02	22.2	22.4	62	2.56	69.2	3.99
19023		2.09	0.08	6.89	3.7	410	1.64	0.26	0.64	<0.02	21.8	27.2	56	1.91	74.5	2.87



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
 www.alsglobal.com/geochemistry

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

Page: 2 – B  
 Total # Pages: 2 (A – D)  
 Plus Appendix Pages  
 Finalized Date: 14-SEP-2021  
 Account: BMRPLLBW

Project: Gowganda Transition –GBF21–022

**CERTIFICATE OF ANALYSIS SD21227989**

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
19016		17.50	0.06	0.7	0.086	1.06	12.4	60.3	3.04	1070	0.91	2.41	0.8	58.8	170	89.7
19017		5.90	<0.05	0.5	0.056	0.19	2.3	6.9	2.55	1410	1.69	1.08	0.3	32.1	620	38.2
19018		1.31	0.06	<0.1	0.080	0.01	1.3	1.1	3.61	1800	2.65	0.04	0.1	18.7	780	36.2
19019		6.31	0.05	0.5	0.050	0.12	3.6	8.2	2.44	1240	5.05	1.10	0.3	18.2	540	326
19020		7.62	0.05	0.6	0.053	0.14	6.1	8.6	2.21	1130	1.96	1.27	0.4	16.2	530	669
19021		11.70	0.27	1.2	0.115	0.33	7.1	8.9	4.17	1040	4.10	1.23	5.0	>10000	480	14.7
19022		20.4	0.07	3.4	0.045	2.13	10.6	74.8	2.15	277	9.29	1.47	5.7	22.3	430	4.2
19023		16.35	0.06	2.8	0.033	1.86	9.8	60.4	1.57	192	4.08	1.28	5.0	17.8	460	3.3



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
 www.alsglobal.com/geochemistry

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

Page: 2 – C  
 Total # Pages: 2 (A – D)  
 Plus Appendix Pages  
 Finalized Date: 14-SEP-2021  
 Account: BMRPLLBW

Project: Gowganda Transition –GBF21–022

**CERTIFICATE OF ANALYSIS SD21227989**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
19016		32.4	<0.002	0.44	0.95	41.9	1	0.8	336	0.06	0.28	0.14	0.278	0.20	0.1	211
19017		6.4	<0.002	5.95	0.69	1.4	3	0.2	98.4	<0.05	0.94	0.13	0.034	0.07	0.1	12
19018		0.7	<0.002	9.70	0.81	0.4	3	0.2	13.5	<0.05	1.65	0.03	<0.005	0.09	0.1	5
19019		3.5	<0.002	7.22	1.09	1.3	1	0.2	105.0	<0.05	0.93	0.14	0.032	0.06	0.1	10
19020		4.2	<0.002	6.51	1.03	1.5	1	0.2	140.5	<0.05	0.78	0.17	0.040	0.07	0.1	12
19021		10.5	0.043	8.49	2.73	8.6	21	2.4	188.5	0.29	4.18	1.00	0.544	0.18	0.3	82
19022		68.8	0.002	0.28	0.20	12.9	<1	0.9	169.0	0.50	0.09	1.68	0.315	0.32	0.7	92
19023		66.4	<0.002	0.13	0.23	9.4	<1	0.8	162.5	0.42	0.19	1.47	0.284	0.27	0.5	70





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
 www.alsglobal.com/geochemistry

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

Page: 2 – D  
 Total # Pages: 2 (A – D)  
 Plus Appendix Pages  
 Finalized Date: 14-SEP-2021  
 Account: BMRPLLBW

Project: Gowganda Transition –GBF21–022

**CERTIFICATE OF ANALYSIS SD21227989**

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 %
19016		0.6	11.9	226	22.9			71.9	95.2
19017		0.4	5.8	98	18.1				95.8
19018		1.3	6.2	124	2.6				
19019		0.6	5.7	262	17.3				
19020		0.5	6.1	478	22.6				
19021		2.0	8.9	145	52.6	1.550	4.35		
19022		1.2	11.9	34	141.5				
19023		1.2	10.9	25	118.0				



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
 www.alsglobal.com/geochemistry

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

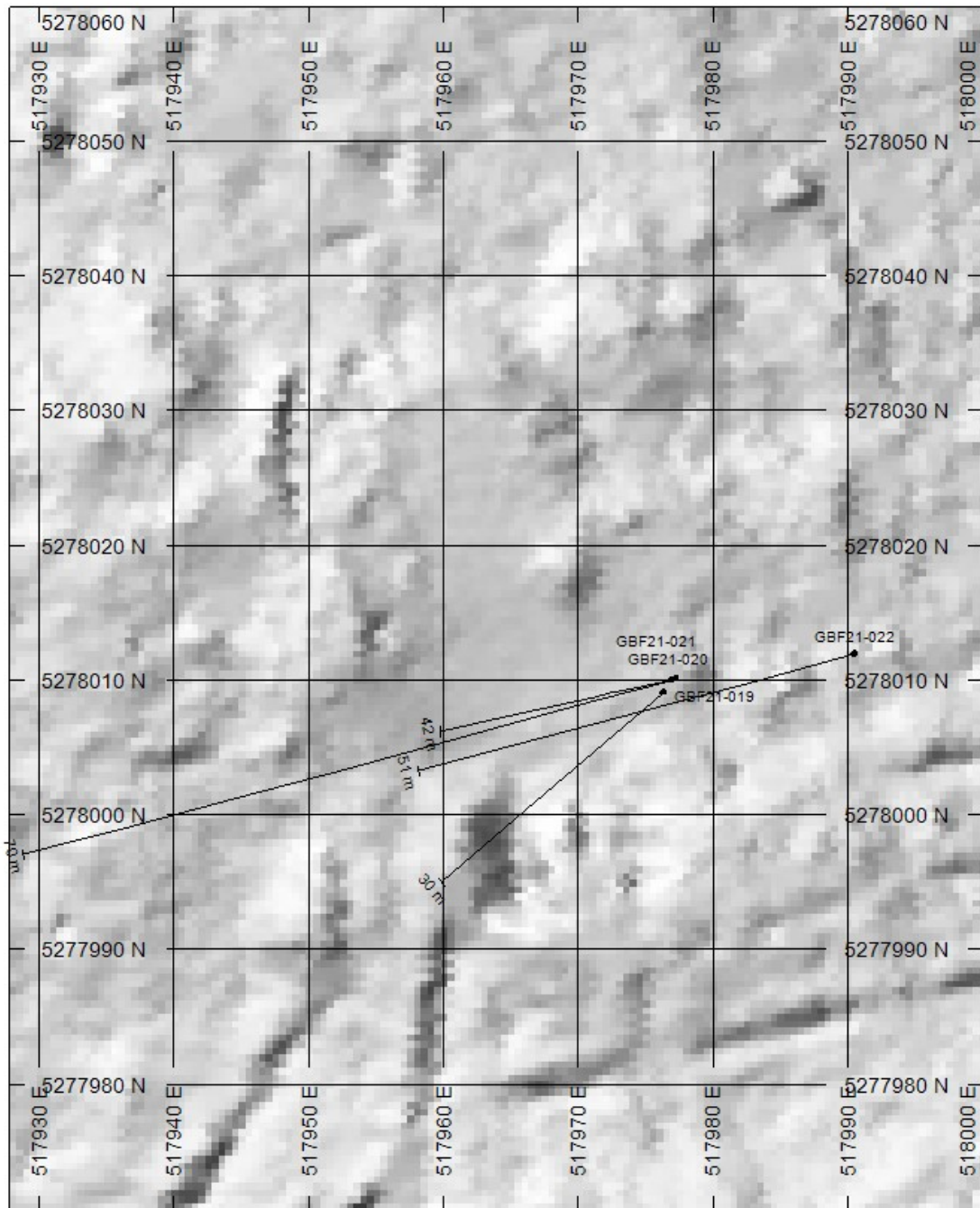
Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 14-SEP-2021  
 Account: BMRPLLBW

Project: Gowganda Transition –GBF21–022

**CERTIFICATE OF ANALYSIS SD21227989**

	<b>CERTIFICATE COMMENTS</b>								
	<b>ANALYTICAL COMMENTS</b>								
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61								
	<b>LABORATORY ADDRESSES</b>								
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: 15%;">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%;">Cu-OG62</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;">ME-OG62</td> <td style="width: 15%;">Ni-OG62</td> </tr> </table>	Cu-OG62	ME-MS61	ME-OG62	Ni-OG62				
Cu-OG62	ME-MS61	ME-OG62	Ni-OG62						





**HOLES PLOTTED**

TOTAL 4

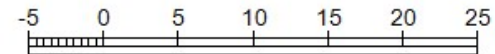
GBF21-019      GBF21-020      GBF21-021      GBF21-022

**PLAN SPECS:**

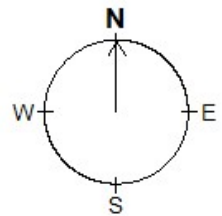
REF. PT. E, N      518000 m 5278000 m  
 EXTENTS              72.27 m    89.38 m

**SCALE 1 : 550**

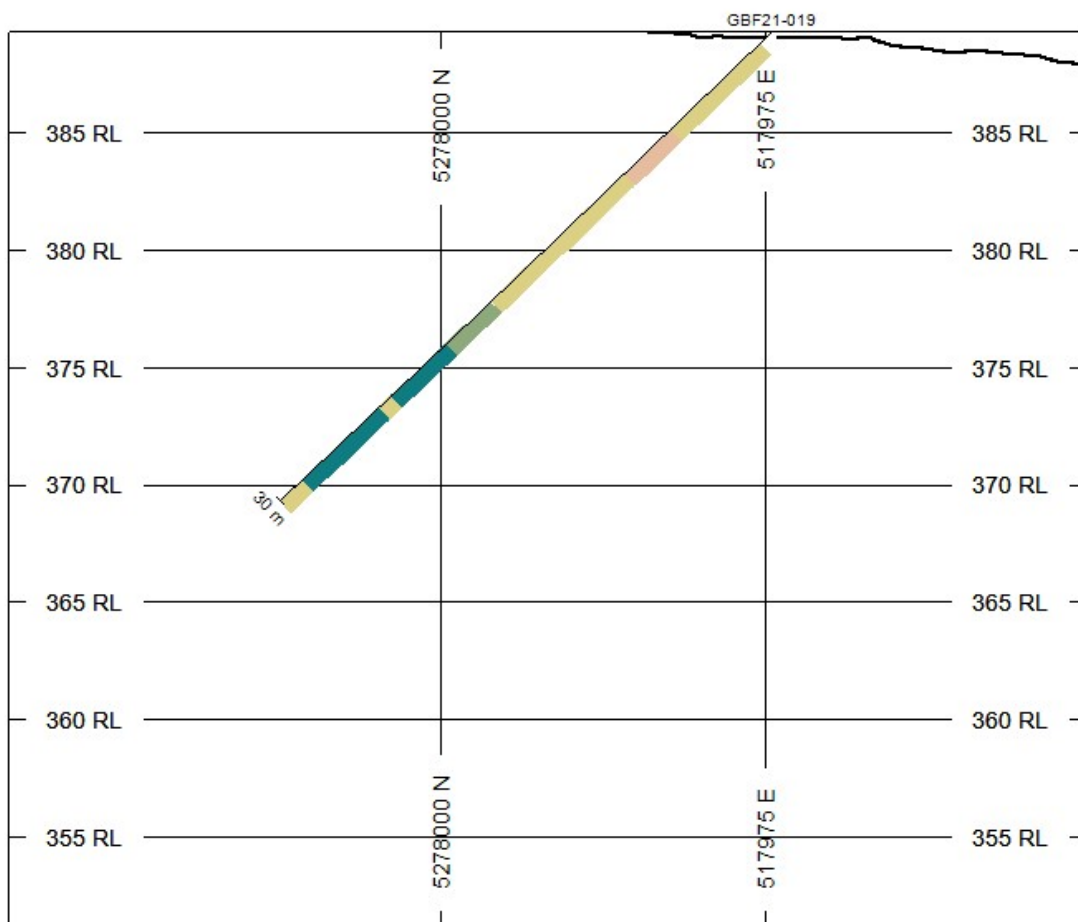
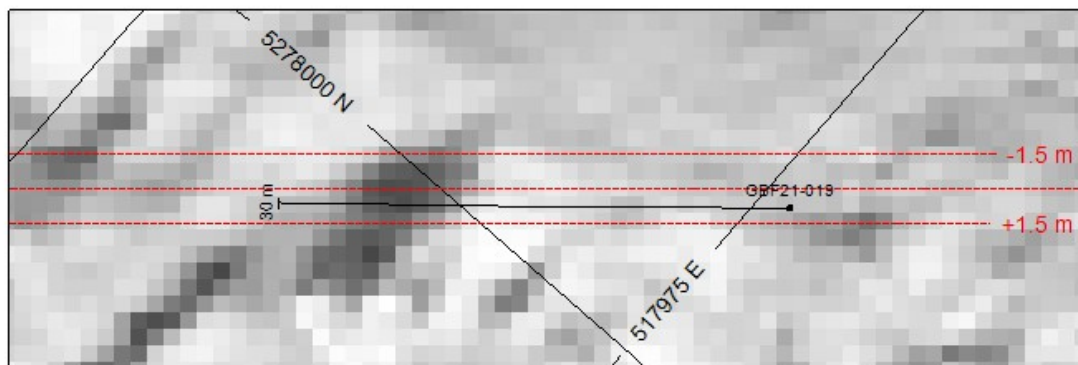
(m)



NAD83(2011) / UTM zone 17N



**Battery Mineral Resources Corp.**  
**Gowganda Transition - Big Four**  
**Diamond Drill Holes - Plan Map**  
**2021**



## HOLES PLOTTED

TOTAL 1

GBF21-019

### TOPOGRAPHY

— Topography.GRD

### ROCK CODES

Lithology

PAT



LABEL

Overburden

Dacite

Mafic Volcanic

Iron Formation

Ultramafic Volcanic

### ASSAYS

Ag\_(ppm)

Co\_(ppm)

L/R

R

L

TEXT

-----

-----

RANGE

Min 2

Min 500

## SECTION SPECS:

REF. PT. E, N 517968 m 5278003 m

EXTENTS 45.81 m 38.13 m

SECTION TOP, BOT 389.3 m 351.2 m

TOLERANCE +/- 1.485 m

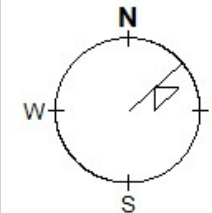
SCALE 1 : 350

(m)



NAD83(2011) / UTM zone 17N

AZIMUTH = 48.8°

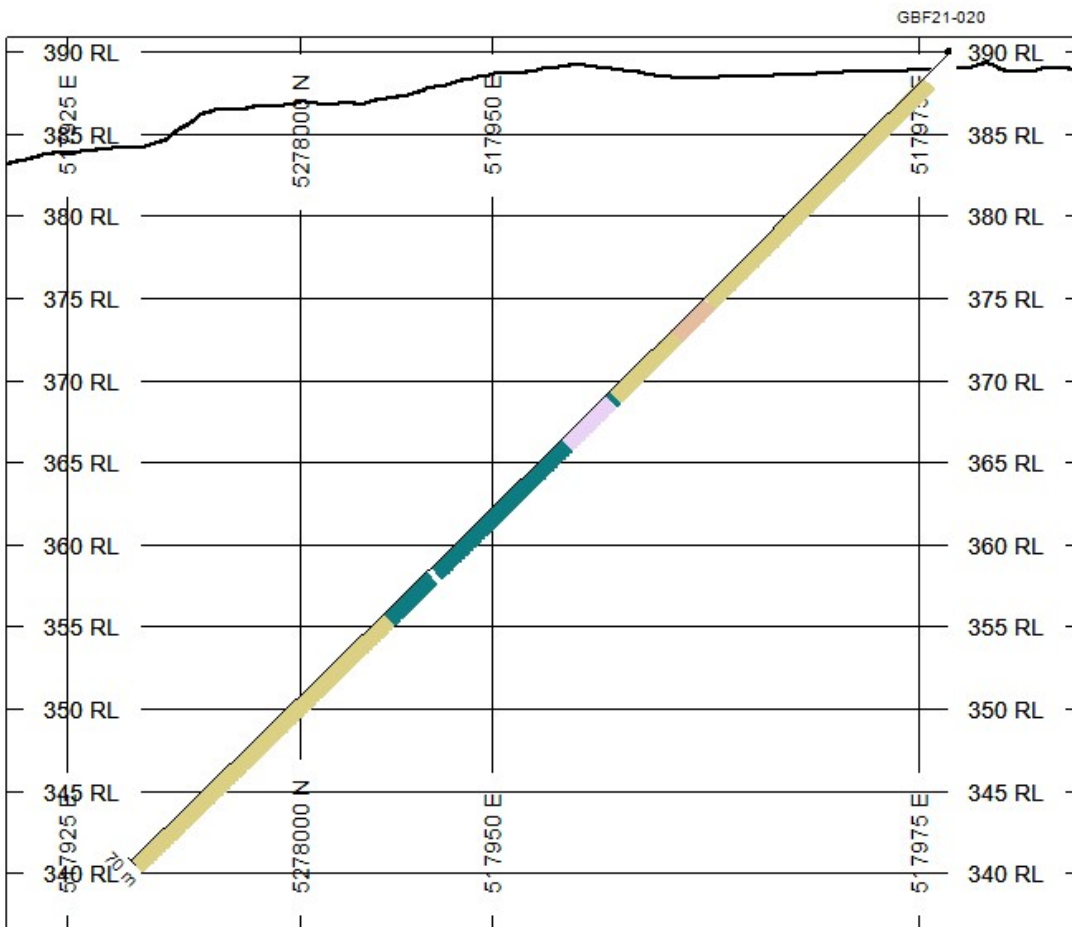
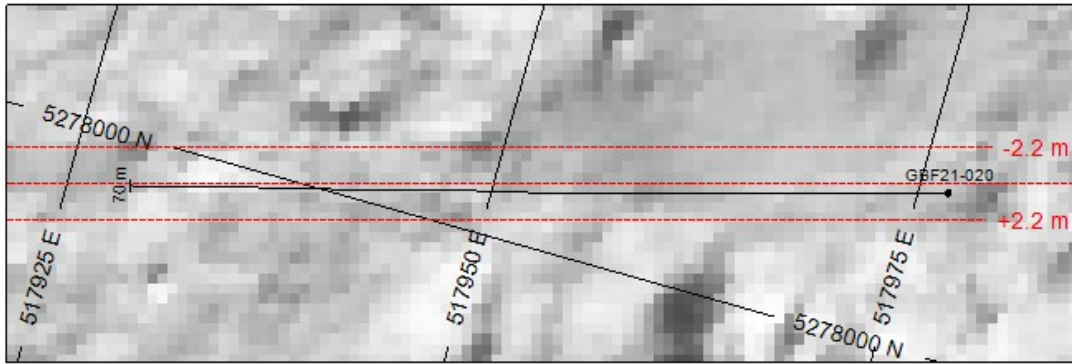


**Battery Mineral Resources Corp.**

**Gowganda Transition - Big Four**

**GBF21-019**

**Azimuth: 229.35 Dip: -43.79**



### HOLES PLOTTED

TOTAL 1  
GBF21-020

#### TOPOGRAPHY

— Topography.GRD

#### ROCK CODES

Lithology

#### PAT

Overburden  
Dacite  
Diabase, Sudbury Dyke  
Iron Formation  
Ultramafic Volcanic

#### LABEL

Overburden  
Dacite  
Diabase, Sudbury Dyke  
Iron Formation  
Ultramafic Volcanic

#### ASSAYS

Ag\_(ppm)  
Co\_(ppm)

#### L/R

R  
L

#### TEXT

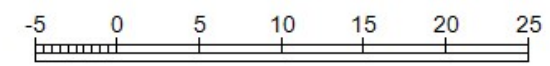
Min 2  
Min 500

### SECTION SPECS:

REF. PT. E, N 517953 m 5278004 m  
EXTENTS 65.45 m 54.46 m  
SECTION TOP, BOT 390.9 m 336.5 m  
TOLERANCE +/- 2.19 m

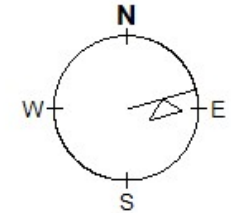
SCALE 1 : 500

(m)



NAD83(2011) / UTM zone 17N

AZIMUTH = 74.4°

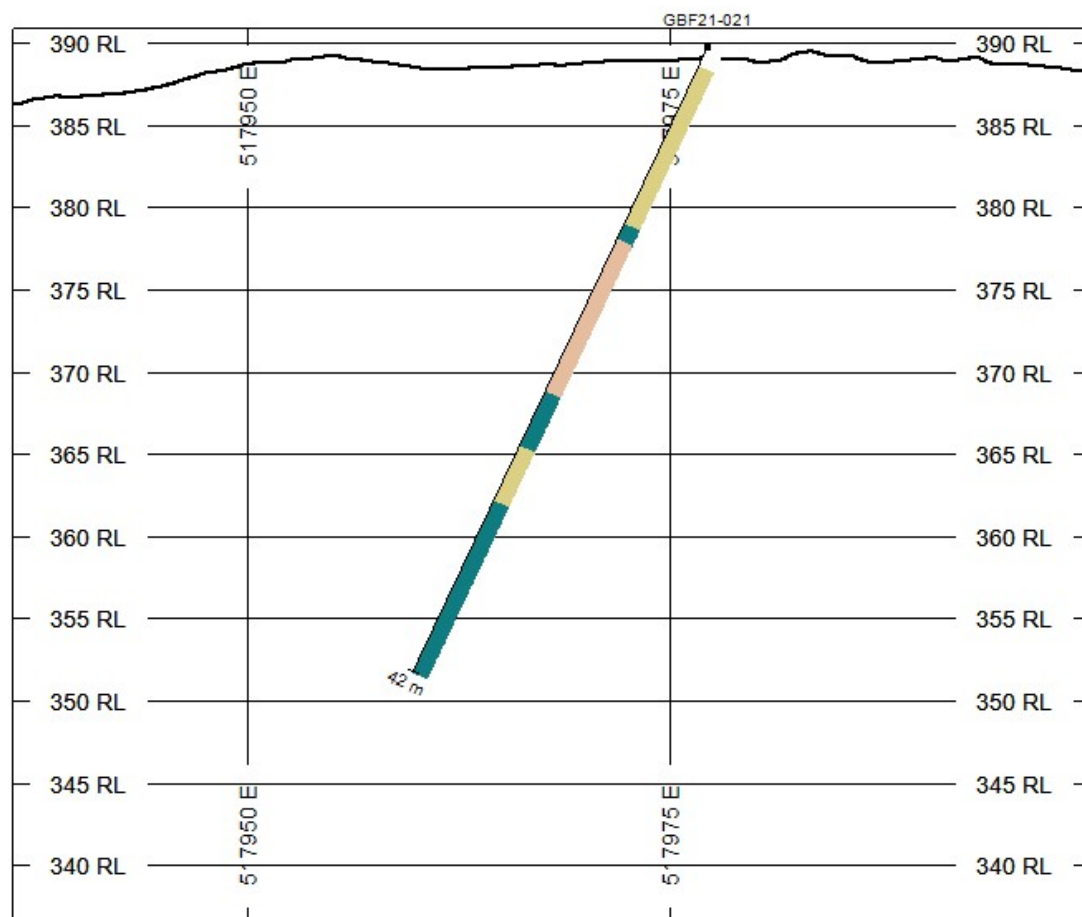
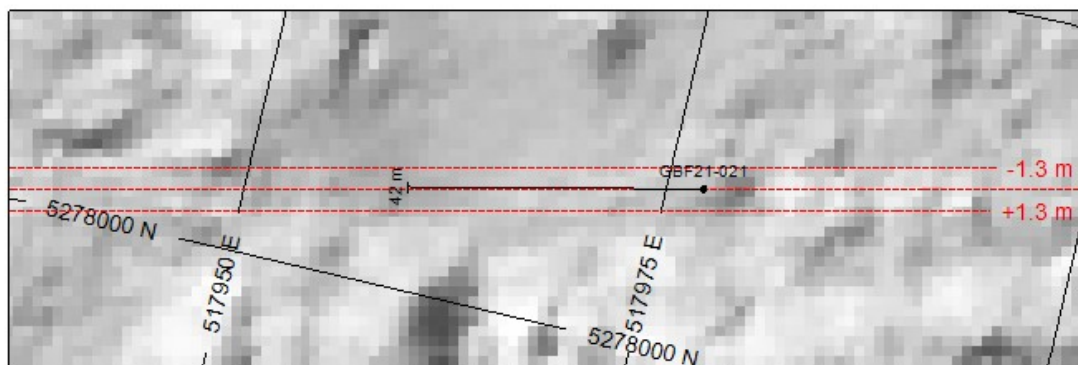


**Battery Mineral Resources Corp.**

**Gowganda Transition - Big Four**

**GBF21-020**

**Azimuth: 254.56 Dip: -45.21**



## HOLES PLOTTED

TOTAL 1

GBF21-021

### TOPOGRAPHY

— Topography.GRD

### ROCK CODES

Lithology

PAT

LABEL

	Overburden
	Dacite
	Iron Formation
	Ultramafic Volcanic

### ASSAYS

Ag\_(ppm)

Co\_(ppm)

L/R

R

L

TEXT

----- Min 2

----- Min 500

### SECTION SPECS:

REF. PT. E, N 517968 m 5278008 m

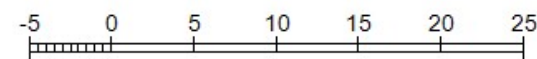
EXTENTS 65.45 m 54.46 m

SECTION TOP, BOT 390.9 m 336.5 m

TOLERANCE +/- 1.3 m

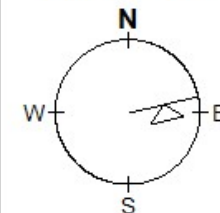
SCALE 1 : 500

(m)



NAD83(2011) / UTM zone 17N

AZIMUTH = 76.8°

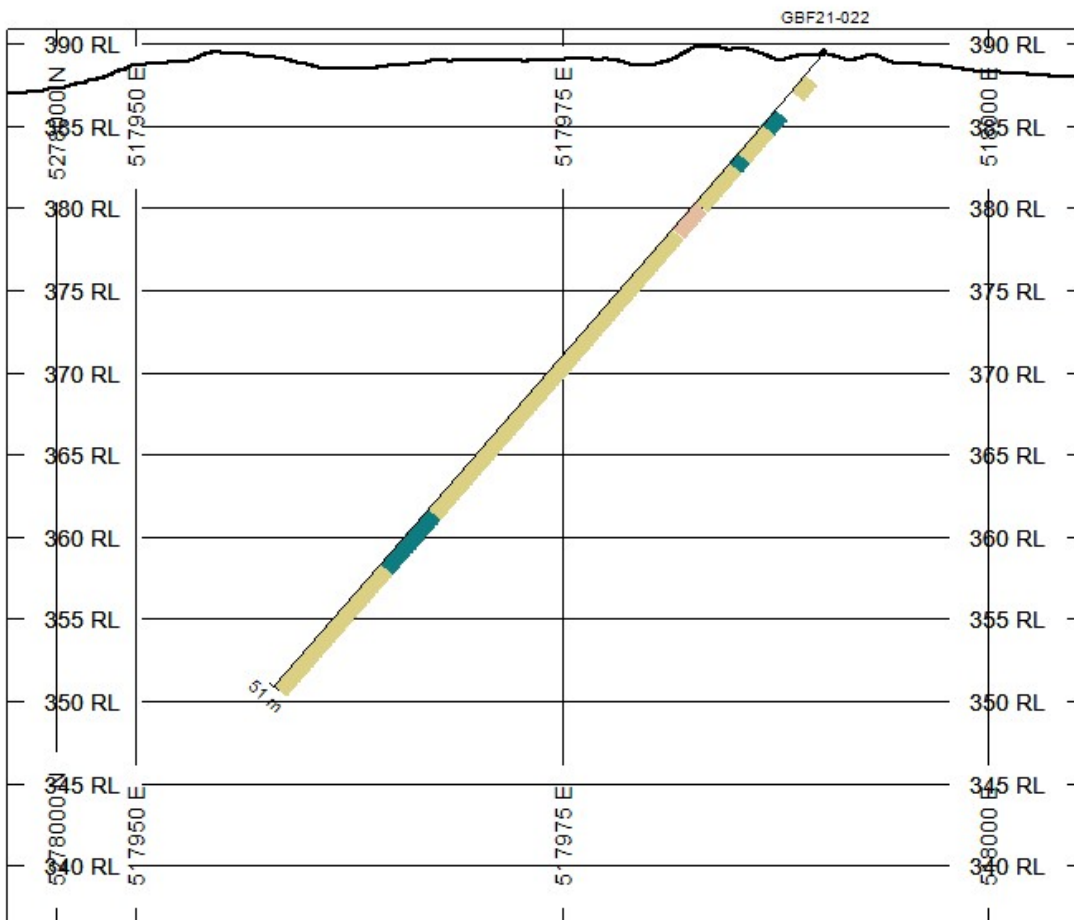
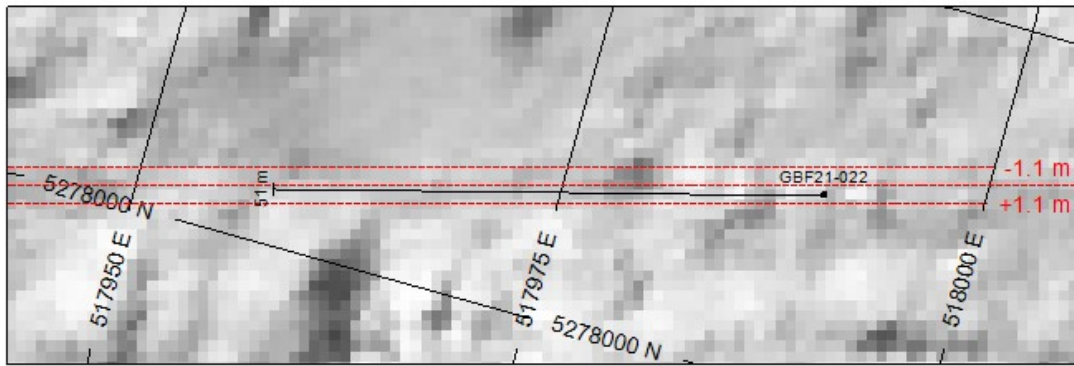


**Battery Mineral Resources Corp.**

**Gowganda Transition - Big Four**

**GBF21-021**

**Azimuth: 257.63 Dip: -64.73**



## HOLES PLOTTED

TOTAL 1  
GBF21-022

### TOPOGRAPHY

— Topography.GRD

### ROCK CODES

Lithology

PAT

LABEL

- Overburden
- Dacite
- Iron Formation
- Ultramafic Volcanic

### ASSAYS

Ag\_(ppm)  
Co\_(ppm)

L/R

R

L

TEXT

-----

-----

RANGE

Min 2

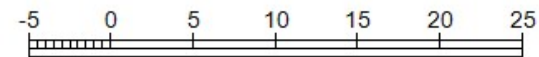
Min 500

### SECTION SPECS:

REF. PT. E, N 517974 m 5278008 m  
EXTENTS 65.45 m 54.46 m  
SECTION TOP, BOT 390.9 m 336.5 m  
TOLERANCE +/- 1.09 m

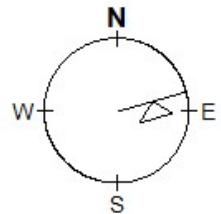
SCALE 1 : 500

(m)



NAD83(2011) / UTM zone 17N

AZIMUTH = 74.4°



**Battery Mineral Resources Corp.**

**Gowganda Transition - Big Four**

**GBF21-022**

**Azimuth: 254.80 Dip: -49.17**