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BATTERY

MINERAL RESOURCES

Report on the 2022 Diamond Drilling at the McAra Project,
Dufferin Township, Ontario, Canada

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1. OVERVIEW

1.1 PROJECT NAME

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

1.2 SUMMARY

The McAra Project has been the focus of intense exploration for base metals and cobalt. With over 5000 meters of cobalt-oriented drilling, a narrow but very high-grade vein of massive cobaltite has been outlined with grades ranging from 1-14 % Co.

From January 5th to 27th, 2022, Battery Mineral Resources Ltd. (BMR) undertook a diamond drilling campaign comprising seven holes (including 1 abandoned hole after 15m) totalling 1145.37 meters. The holes were drilled to test a possible plunge to the west of the main cobalt resource, and to further explore for a possible extension of the cobalt mineralization of the South Zone area. The drilling was completed by G4 Drilling (Forage G4) of Val-d'Or, Quebec with support services provided by Canadian Exploration Services (CXS) of Larder Lake, Ontario. A total of 488 samples including standards, duplicates, and blanks, were sent to ALS laboratories in Sudbury Ontario for analysis. Project mechanics were supervised by Frank Ploeger, P. Geo.

Each drill pad was cleared and leveled by CXS, and a sump was made to capture tailings from each hole and backfilled once drilling was complete. Core was brought to the G4 lodgings at the tourist camp in Gowganda and retrieved daily by CXS geologists to be logged in the CXS processing facility in Larder Lake. Core samples were then transported by BMR to the ALS Lab in Sudbury, Ontario for analysis.

The 2022 winter drilling program was designed to test the projected down-plunge extension of the main NE-striking cobalt mineralized zone and to define the boundaries of the South Zone for possible inclusion into an upgraded 43-101 compliant resource.

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

1.3 PHYSICAL ACTIVITIES UNDERTAKEN

Work Performed	Dates	Total Holes Drilled / Samples Taken
Diamond Drilling	January 6 to 27, 2022	7 holes
Assaying	February 19 to April 7, 2022	488 samples

Table 1: Drill Program Details

2. LOCATION DETAILS

2.1 LOCATION

The McAra property comprises approximately 25,000ha nestled amongst 3 major mining centres and is located approximately 100km north of Sudbury, 120km south of Timmins and 110km southwest of Kirkland Lake, Ontario. The closest major centre by highway is the Town Of Timiskaming Shores, 100km to the east- northeast (Figure 1).



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

2.2 ACCESS

Access to the property can be made via HWY 560 west from Elk Lake, Ontario for 23 km to Beauty Lake road. Beauty Lake road can be taken for ~49 km south to an ~2 km long bush road that provides truck access to the drill sites.

2.3 MINING CLAIMS

As of September 2021, the 100% BMR McAra property comprised 1233 cells (24,553 ha) and one lease (382.091ha) in Browning, Dufferin, Leckie, Leith, Leonard, North Williams, Ogilvie, and Ray townships (Figure 2). The area of exploration drilling reported here was confined to small part of the property in Dufferin township on lease LEA-108325 (Figure 3). The McAra project area is 100% owned by BMR and the complete list of claims is given in Appendix 1.

Cell Number	Provincial Grid Cell ID	Ownership of Land	Township
LEA-108325	41P07E085	Battery Mineral Resources Limited	Dufferin

Table 2: Mining Lands and Cells Information

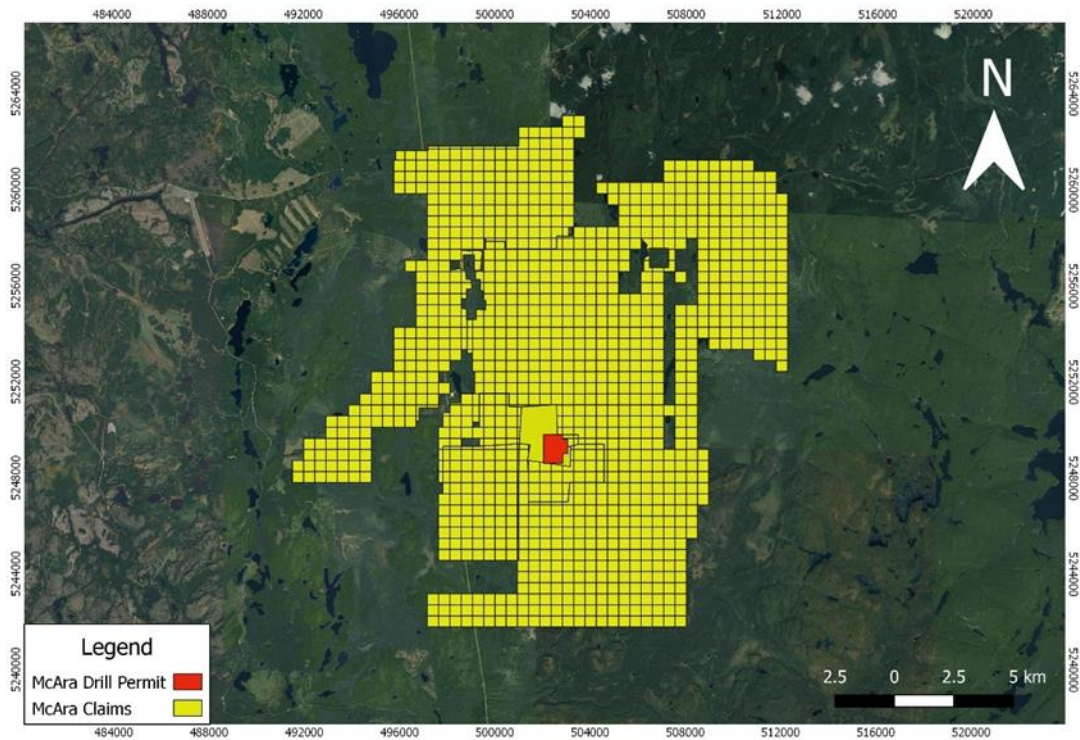


Figure 2: BMR’s broader McAra project area (yellow squares), drill permit boundary (red squares)

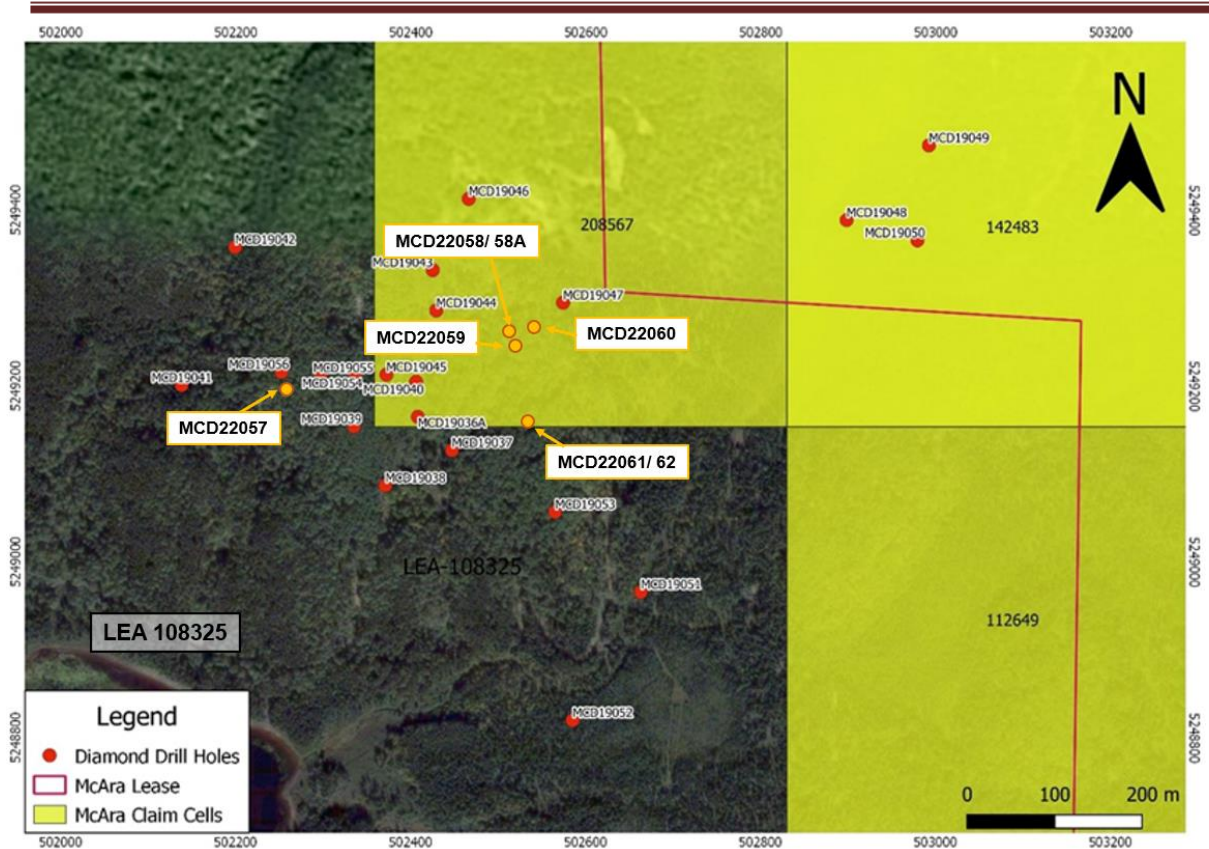


Figure 3: Detailed Claim Map with Drill Hole Locations

2.4 PROPERTY & EXPLORATION HISTORY

The following project history and exploration history was taken in part from Page (2018), who compiled information from Randall (2007), Robinson (2006), Anderson (2005), Pringle (2016) and SRK (Cole, G, et al 2020).

PROPERTY & EXPLORATION HISTORY

The McAra project area has been trenched and sampled, extensively drilled between 1996 and 2019, and evaluated with magnetic, electromagnetic, and IP geophysical methods.

Falconbridge Nickel

Falconbridge Nickel explored for base metal VMS deposits in the mid-1980s in the nearby Sheard, Browning, and Amyot Townships. The highest amplitude conductors interpreted from airborne data were evaluated with ground geophysical surveys and drill tested with poor results (Randall, 2007).

Roy Annett

The Annett #2 and Annett #1 zones are located to the northeast of McAra Lake, 400m

and 500m meters respectively, and were power washed, trenched, and sampled. Interpretations from geological mapping suggested that Annett #1 comprised an approximately 30 m wide and over 1,000 m long mineralized zone. The Annett # 2 zone was estimated to be 25 m wide and longer than 400 m in strike length. Samples taken by Minescape Exploration Inc. in the trenched areas in 1997 contained up to 1.48 % Zn and 3.5.g/t Au, along with anomalous Ag and Cu values (Hunter, 1998 in Randall, 2007).

Wallbridge Mining Company

Wallbridge conducted a helicopter AEM and AMAG survey over their property in January 1998, at a flight line direction of 70° and a line spacing of 100 m. This survey outlined three widely spaced conductors; the McAra Lake, Kite Lake, and Theodore Lake anomalies. Magnetic data indicated that the Archean rocks trend N20E and span approximately 4 km to the south and ultimately beyond the survey area. Diabase dikes that trend SSE are prominent in the contoured magnetic data, whereas north-trending diabase dikes have a comparatively weak magnetic signature (Randall, 2007).

In February 1998, IPIRES II and HLEM surveys were flown on north-south oriented lines at 100 m spacing over the area. The IPIRES survey defined a 600-m long chargeability anomaly over the Annett # 1 and # 2 mineralized zones. HLEM data, however, did not outline the conductive horizons, owing to the survey direction that was subparallel with host rock orientation (Randall, 2007).

Wallbridge and Mustang Minerals

Wallbridge and Mustang Minerals Corp. sampled 1 meter long, continuous intervals from an east-west striking trench, which contained an average of 2.1% Cu, 1.1% Zn, 0.7% Pb, 34 g/t Ag and 0.03 g/t Au over 9 m. In January 2003, Mustang contracted Quantec Geoscience Inc. to conduct MAG, HLEM and IP/RES surveys over the area, with a 1,050 m long, N30W lines spaced 50-100 m apart (totaling approximately 20 line-km; Warne et al, 2003). Magnetic data were collected at 25 m intervals, and the HLEM survey included 440 Hz, 1760 Hz and 3520 Hz frequencies with a 150-m cable. Parameters for the pole-dipole IPIRES survey were $n=1$ to 8 and $a=50$ m along secant chained survey lines.

The HLEM data outlined moderate amplitude, 4-20 m wide conductor that is flanked by highly resistive rocks over a strike length of 1 km. The resistive anomaly may be due to silicification of the host rocks or primary lithology. The north-south oriented conductor is interpreted to dip 20-70° to the west and plunges to the south. The conductor axis occurs ~50 west of the mineralized trench and curves to the west at its northern limit. The IP data outlined a 600-m diameter ovoid shaped resistivity anomaly (100,000+ ohm-metres), indicating the corresponding rocks are strongly silicified. Chargeability anomalies ranging from 20 to 30 V are coincident with the HLEM survey data. However, additional untested chargeability anomalies are present over a 300-m distance both to the east and west of the conductor axis.

Liberty Mineral Exploration Inc.

Liberty Mineral Exploration Inc. conducted MMI geochemical sampling, but results are not available (Liberty Mineral Exploration Inc., 2005).

Liberty Cobalt Inc.

Liberty Cobalt Inc. contracted a ground magnetic survey from Vision Exploration in 2005, covering mining claims 1223344 and 1212541 (pre-2018 claim numbers). Vision cut 19.8 km of survey lines and completed 9.3 line-km of magnetometer readings. Five lines spaced 100 m apart were picketed every 25 meters and the total magnetic field was measured every 12.5 meters on each line. The survey utilized a GEM GSMT-19 magnetometer that was synchronized with an identical base station to diurnally correct the data acquired on the lines, resulting in 1.0 nT data resolution. These data outline the magnetic cobalt veins and indicate similar untested magnetic anomalies occur in the area (Anderson, 2005).

Northern Sun Mining Inc.

Northern Sun completed limiting prospecting and survey work on the property in 2014 (Mathieu, 2015), but failed to expose the high-grade cobaltite in the main trench.

2016-2019: Battery Mineral Resources Ltd.

BMR conducted a grass roots prospecting campaign at the McAra project from July 1, 2018, to July 31, 2018. The prospecting work was non-continuous over the reported time interval due to forest fires and was focused on finding mineralized zones in areas prospective for hosting cobalt deposits, namely Archean rocks and the contacts between the Nipissing gabbro and Huronian sediments. AMIS and MDI locations were also checked for significant cobalt occurrences.

BMR contracted Precision GeoSurveys Inc. to conduct regional scale Airborne mag and radiometric surveys in 2016 and 2018. LiDAR was also flown over all properties in 2018 and contracted through Airborne Imaging Inc. Ground magnetometer, spectrometer, 2D IP, and 3D IP were contracted to Canadian Exploration Services Limited.

Battery Mineral Resources completed three phases of drilling comprising thirty-five holes totaling 6088.3 meters (2017- 2018) to define a 43-101 compliant cobalt resource, and twenty-one additional holes totalling 4398 meters (2019) to explore the immediate area for additional cobalt mineralized zones including five oriented holes that were used to better define the previously known, NE-striking cobalt mineralized zone for updating of a 43-101 compliant resource.

2.5 REGIONAL & LOCAL GEOLOGY

The McAra project is in a 65 km² Archean inlier to the Huronian Basin. Archean basement in the area was deposited in an extensional volcanic arc-back arc setting, and later deformed during arc inversion that resulted in tight folding and steep dips of rocks (e.g., Mercier-Langevin et al., 2014 and references therein). The Huronian Basin over-

lies Archean rocks and comprises Paleoproterozoic sediments with maximum estimated thickness of 12 km, and an estimated thickness of 6 km near Cobalt, Ontario (Young et al., 2001). Post-dating Huronian rock deposition, Nipissing dike-sill complexes intruded basement and overlying sediments at ~2219 Ma. Following this, basin inversion during the Penokean Orogeny at ~1800 Ma resulted in mild deformation of Huronian Rocks in the project area (Potter and Taylor, 2009).

Archean rocks at McAra comprise aphanitic mafic flows, coarse-grained mafic flows, mafic intrusives (mainly gabbro) variably sulfide-rich and altered metasediments (argillites, greywackes, cherts), and late mafic dykes (either Nipissing or Sudbury related). The rock package is NW trending and dips 45-65 degrees to the SW. Strain was partitioned into the more ductile sediments that resulted in tight folding.

2.6 MINERAL DEPOSIT TYPES

Geological/ geophysical exploration and diamond drilling at McAra between 1996 and 2010 was focused on further exploring the potential of the exhalative base metal showing that had been stripped on surface whereas BMR concentrated on delineating cobalt mineralized zones after acquiring the property in 2016.

Models of primary cobalt deposits, apart from those in the Central African Copperbelt, are not well defined in the existing literature (e.g., Hitzman et al., 2016). Kerrich et al. (1986), Andrews et al. (1986a), and Andrews et al. (1986b) undertook detailed geological and geochemical studies of the Ag-Co veins of the historic Cobalt and Gowganda camps and concluded that saline to hypersaline basin brines transported metals to deposition sites, and that these metals were sourced from Huronian Basin aquifers. Ag-Co veins were also interpreted to form directly above sulfide-bearing, Archean metasedimentary rocks (Potter and Taylor, 2009).

Hendrickson (2020) suggests that “The McAra deposit shares a similar basin margin setting and metal assemblage with the five-element vein deposits at the Cobalt and Gowganda camps, and fluid inclusion data (Lindsay et al. 2020) suggest they were all deposited by fluids of similar temperatures and salinities. The presence of mafic-siliciclastic VMS deposit that contains anomalous cobalt concentrations indicates the Archean stratigraphy was the cobalt source for the deposit at McAra. Data and interpretations presented here support a model whereby Paleoproterozoic oxidized basin brines circulated through regional scale basement faults and Huronian sub-basins intruded by Nipissing Gabbro sills. The brines then leached metals from the cobalt enriched VMS plumbing system and deposited the cobalt-rich zones along pre-existing deposit-scale synvolcanic faults upon assimilation of sulfur from the immediately adjacent massive sulfide deposit. Post-dating five-element vein formation, late Nipissing or Sudbury swarm dikes intruded along the same fault systems that controlled Archean basin development, VMS deposit formation, and cobalt deposit formation. Partial erosion of the Huronian basin then exposed the Archean basement hosting the McAra cobalt deposit.”

Considering that both Proterozoic Ag-Co veins and Archean mineralized zones at McAra are hosted in the Huronian Basin and are closely linked to the basement massive sulfide deposits, it is possible that cobalt minerals at McAra also formed from saline basin brine circulation into structural traps as is envisioned for Ag-Co deposits at the Gowganda and Cobalt camps.

2.7 TARGET OF INTEREST

The focus of drilling at the McAra Project was to identify possible cobalt mineralized zones which fall outside the current resource. The 2022 winter drilling program was specifically designed to test the projected down-plunge extension of the main NE-striking cobalt mineralized zone and to define the boundaries of the South Zone for possible inclusion into an updated 43-101 compliant resource.

Cobalt zones at McAra appear to be spatially related to sulfide-rich metasediments that may have been the sulfur source for cobaltite. In addition, the main cobalt zone is superimposed on a stratiform, VMS-style copper deposit. Thus, the cobalt mineralizing fluid is interpreted to have exploited the same syn-volcanic fault that controlled deposition of the stratiform chalcopyrite, although the timing of the cobalt mineralization remains unclear. The model of proximity to massive sulfides and pre-existing and cross-cutting synvolcanic faults formed the basis for exploration in the McAra area.

The interpreted South Zone roughly parallels the sedimentary unit that is sporadically mineralized with pyrite and minor sphalerite, chalcopyrite, and galena. Previous drilling has indicated that there may be two parallel mineralized zones, the strongest of which is a cataclastic/ brecciated zone, and the other, a quartz- carbonate vein zone.

3. DRILLING

3.1 PERMITS

Permit for exploration drilling at the McAra project is PR-21-00243

3.2 DRILLING

The drill was mobilized to McAra on January 6th and by January 27th, 2022, seven holes totaling 1145.37 m (Table 3, Figure 4) had been completed. One hole was drilled to test the down plunge projection of the previously defined cobalt resource, and six holes targeted the projected strike and depth potential of the South Zone. The drilling was contracted to G4 Forage (G4) of Val-d'Or, Quebec, and support services provided by Canadian Exploration Services (CXS) of Larder Lake, Ontario. A total of 488 samples including standards, duplicates, and blanks, were sent to ALS laboratories in Sudbury Ontario for analysis. Project mechanics were supervised by Frank Ploeger, P. Geo. Metadata, text logs and cross sections are presented in Appendix 2,3 & 6.

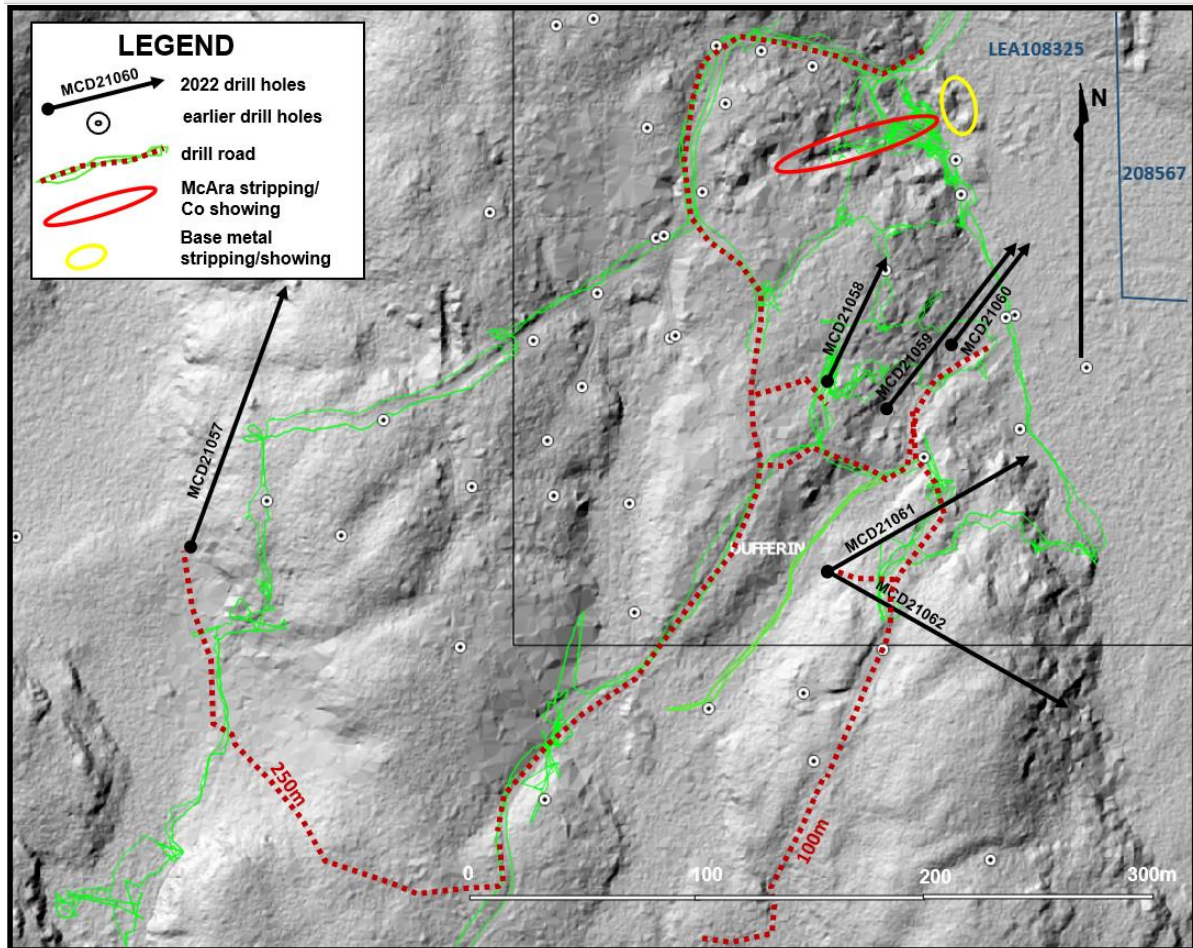


Figure 4: Drill Hole Location plan on LiDAR base

Each drill pad was cleared and leveled by CXS, and a sump was made to capture cuttings from each hole and backfilled once drilling was complete. Core was brought to the G4 lodgings at the tourist camp in Gowganda and retrieved daily by CXS geologists to be logged in the CXS processing facility in Larder Lake. Core samples were then transported by BMR to the ALS Lab in Sudbury, Ontario for analysis.

Dr. Erwann Lebrun of SRK Consulting conducted a review of BMR’s historical drilling including the oriented core and structural data from the 2019 drilling. He generated a new 3D geological model used for resource estimation and suggested that BMR test for the possible down plunge extension of the main zone. He interpreted the South Zone as a possible structure parallel with the main cobalt zone rather than a separate north south striking structure. Therefore, the holes into the South Zone were partially intended to confirm the strike of the zone and the possibility of including it in an updated resource model.

McAra Drilling							
Hole ID	East	North	azim	dip	length (m)	samples	Comments
MCD21057	502209	5249199	21.18	-56.19	300	98	test down plunge - main zone
MCD21058	502502	5249276	24.6	-51.12	150	66	test gap of south and main zones
MCD21058A	502502	5249276	25.55	-51.06	15	13	abandoned
MCD21059	502525	5249257	39.93	-49.54	140.37	52	test gap of south and main zones
MCD21060	502552	5249282	40.15	-43.75	90	40	test south zone up plunge
MCD21061	502511	5249157	61.37	-60.09	201	108	test south zone gap between M06-29 & MCD19047
MCD21062	502512	5249156	121.82	-60.38	249	111	test south zone down plunge
Totals:	7 holes				1145.37	488	

Table 3: Collar data on holes drilled by BMR in 2022; all samples were assayed.

3.3 INTERPRETATION

Seven holes aggregating 1145.37m were drilled on BMR’s McAra property by G4 Drilling of Val D’or between January 6 and 27, 2022. The core was retrieved daily and logged and processed at the CXS facility in Larder Lake. A total of 488 samples including standards, duplicates, and blanks, were sent to ALS laboratories in Sudbury Ontario for assaying. Significant assays are provided in Table 4; complete assay results and certificates are appended (Appendix 4 and 5).

Hole Number	From (m)	To (m)	Sample Interval	Sample Number	Ag (g/T)	Co (ppm)	Zn (ppm)
MCD22057	77.00	78.00	1.00	20694	1.26	4	1975
MCD22058	63.00	63.50	0.50	20802	0.86	138	985
MCD22058	71.00	72.00	1.00	20811	1.87	53	2720

MCD22059	30.00	30.50	0.50	21306	0.31	48	2510
MCD22059	51.00	52.00	1.00	21312	1.46	65	1135
MCD22059	52.00	53.00	1.00	21313	1.02	67	5160
MCD22059	53.00	54.00	1.00	21314	0.57	55	2500
MCD22059	54.00	55.00	1.00	21315	0.36	49	3150
MCD22059	55.00	56.00	1.00	21316	0.88	56	6030
MCD22059	56.00	57.00	1.00	21317	0.73	104	1675
MCD22059	57.00	58.00	1.00	21318	0.49	63	415
MCD22059	58.00	59.00	1.00	21319	3.92	145	2180
MCD22059	59.00	60.00	1.00	21322	1.59	161	2060
MCD22059	60.00	61.00	1.00	21323	0.51	54	1805
MCD22059	61.00	62.00	1.00	21324	4.00	189	1485
MCD22059	62.00	63.00	1.00	21326	5.20	193	924
MCD22059	63.00	64.00	1.00	21327	7.24	117	3950
MCD22059	64.00	65.00	1.00	21328	1.56	32	3080
MCD22059	65.00	66.00	1.00	21329	1.09	12	4090
MCD22059	66.00	67.00	1.00	21330	0.95	14	1115
MCD22059	67.00	68.00	1.00	21331	1.48	30	534
MCD22059	68.00	69.00	1.00	21332	1.58	53	1175
OR	51.00	69.00	18.00				2359
including	58.00	64.00	8.00		2.96	128	1812
MCD22059	74.75	75.25	0.50	21339	2.86	104	249
MCD22060	28.00	29.00	1.00	21354	2.25	128	269
MCD22060	29.00	29.50	0.50	21355	3.61	204	48
MCD22060	36.00	37.00	1.00	21365	4.55	101	376
MCD22060	37.00	38.00	1.00	21366	3.44	92	782
MCD22060	38.00	39.00	1.00	21367	1.48	20	2980
MCD22060	39.00	40.00	1.00	21368	2.70	87	713
MCD22060	40.00	41.00	1.00	21369	7.80	66	1920
MCD22060	41.00	42.00	1.00	21370	3.08	52	5060
MCD22060	42.00	43.00	1.00	21371	2.47	40	7630
MCD22060	43.00	43.84	0.84	21372	1.28	45	4500
MCD22060	60.50	61.00	0.50	21384	0.97	59	2840
MCD22060	61.70	62.25	0.55	21386	1.63	121	155
MCD22060	77.70	78.70	1.00	21391	0.16	134	46
MCD22061	112.00	112.50	0.50	20883	2.24	104	205
MCD22061	135.00	136.00	1.00	20909	0.94	99	141

MCD22061	136.00	137.00	1.00	20910	4.75	81	700
MCD22061	147.00	147.50	0.50	20923	2.76	48	88
MCD22061	147.50	148.10	0.60	20924	2.05	511	74
MCD22061	153.00	153.90	0.90	20931	0.22	25	1185
MCD22061	153.90	154.50	0.60	20932	2.93	900	357
MCD22061	185.00	186.00	1.00	20948	5.76	24	7010
MCD22061	186.00	187.00	1.00	20949	13.10	11	620
MCD22061	187.00	188.00	1.00	20950	5.78	35	760
MCD22061	188.00	189.00	1.00	20951	8.98	36	12250
or	185.00	189.00	4.00		8.41		5160
MCD22061	189.00	190.00	1.00	20952	2.23	36	2390
MCD22061	190.00	191.00	1.00	20953	1.77	46	1570
MCD22062	125.25	126.00	0.75	20979	0.83	123	222
MCD22062	246.90	247.50	0.60	21066	0.29	34	1715

Table 4: Significant assays from McAra 2022 drill program.

The first hole of the program, MCD22057, was designed to test for a possible down plunge extension of the zone hosting the main cobalt resource. The hole did not return any significant cobalt assays nor intersect the projected main structure.

Holes MCD22058/ 058A/ 059/ 060 targeted the gap between the inferred South Zone and the main zone in anticipation that the host structure continued and possibly strengthened towards the main zone. Hole MCD22058A was abandoned after the initial down hole survey revealed excessive deviation from the intended direction. All remaining 3 holes yielded anomalous Co, Ag and Zn values. In the re-collared hole MCD22058, 138ppm Co were returned from a possible structure at the contact between the massive gabbro/ flow and greywacke.

An 8.0m wide zone starting at 58.0m in hole MCD22059 averaged 2.96g/t Ag, 128ppm Co and 0.18% Zn in an argillite unit mineralized with semi massive pyrite that appears, in part, to be fragmented and/ or fracture filling. Likewise, hole MCD22060 returned anomalous Co assays associated with pyritic zones at 29.0m, 37.0m and 62.0m as well as 134ppm Co in a quartz- carbonate vein zone at 78.0m. The hole also contains a 5.84m wide Ag (3.22g/t), Zn (3343ppm) and Pb (3484ppm) enriched zone between 38.0 and 43.84m.

Holes MCD22061/ 062 were collared on the same pad but designed to test the depth and down plunge extents of the South Zone, respectively. The former intersected anomalous Co- bearing zones at 112.0m, 148.0m and 154.0m, the upper zone (104ppm) on a quartz stringer, the middle intercept (511ppm) in foliated cherty arsenopyrite rich sediments, and the lower zone (900ppm) along a 10cm wide cataclastic/ brecciated quartz vein which probably corresponds to the South Zone structure. A 4.0m long section starting at 185.0m returned 8.41 g/t Ag and 5160 ppm Zn.

In hole MCD22062, a slightly anomalous Co value (123ppm) is centred on narrow quartz stringers at 126.0m. At 192.0m, there is a 20cm wide foliated and brecciated quartz zone that is well mineralized with arsenopyrite (1.6% As) which probably constitutes the South Zone structure.

3.4 SUMMARY AND RECOMMENDATIONS

Seven holes aggregating 1145.37m were drilled on BMR's McAra property by G4 Drilling of Val D'or between January 6 and 27, 2022. One hole was drilled to test the down plunge projection of the previously defined cobalt resource, and six holes targeted the projected strike and depth potential of the South Zone. The interpreted South Zone roughly parallels the sedimentary unit that is sporadically mineralized with pyrite and minor sphalerite, chalcopyrite, and galena. Previous drilling has indicated that there may be two parallel mineralized zones, the strongest of which is a cataclastic/ brecciated zone, and the other, a quartz- carbonate vein zone.

The core was retrieved daily and logged and processed at the Canadian Exploration Services facility in Larder Lake. A total of 489 samples including standards, duplicates, and blanks, were sent to ALS laboratories in Sudbury Ontario for assaying.

The first hole (MCD22057) was designed to test for a possible down plunge extension of the zone hosting the main cobalt resource but did not return any significant cobalt assays nor intersect the projected main structure.

Holes MCD22058/ 058A (abandoned)/ 059/ 060 targeted the gap between the inferred South Zone and the main zone; All 3 holes yielded anomalous Co, Ag and Zn values that were generally associated with quartz carbonate stringers and fragmented pyritic zones.

Holes MCD22061/ 062 were collared on the same pad but designed to test the depth and down plunge extents of the South Zone, respectively. The former intersected anomalous Co- bearing zones at 112.0m, 148.0m and 154.0m and the latter, a slightly anomalous Co value at 126.0m. The values are centred on narrow quartz stringers and cataclastic/ quartz breccia zones.

Following the 2022 drill program at McAra, it is recommended that:

- The new drill holes be incorporated into the McAra geological model;
- The model be re-evaluated to include the South Zone as a resource;
- The cataclastic structure at the core of the South Zone appears to coincide with the point of inflection of the MaxMin anomaly which implies a connection between the two features; this possible connection should be more closely examined;
- A new detailed ground magnetometer and MaxMin survey be conducted over the South Zone and integrated into the 3D IP survey results to attempt to distinguish the lithologies, structures, exhalative zones, and Co mineralization;
- Additional drilling may be warranted to confirm the geometry of the South Zone and expand the possible resource.

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5. QUALIFICATIONS

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 restricted 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, April 12, 2022

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, April 12, 2022

6. INSTRUMENT SPECIFICATIONS

Trimble GeoXT¹



STANDARD FEATURES

System

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

GPS

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

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

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- 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 ³)	2.6 Watts
High (with GPS, backlight ³ , Bluetooth, and wireless LAN) ⁴	3.7 Watts

Environmental

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

Input/Output

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

GPS

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

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

Accuracy (HRMS)⁶ after differential correction

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

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

7. APPENDIX

- APPENDIX 1: MINING CELLS INFORMATION**
- APPENDIX 2: DRILL HOLE METADATA**
- APPENDIX 3: DRILL HOLE TEXT LOGS**
- APPENDIX 4: CERTIFICATES OF ANALYSIS**
- APPENDIX 5: ASSAY DATA**
- APPENDIX 6: PLAN MAPS AND CROSS SECTIONS**

Hole ID	mEasting	nNorthing	Elevation (m)	Azimuth	Dip	Depth (m)	Drill Core Diameter	Cell Number (Provincial Grid)	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																				
MCD22057	502208.84	5249198.68	387	21.18	-56.19	300	NQ	41P07E026	LEA-108325	2022-01-06	2022-01-13	G4 Diamond Drilling	Canadian Exploration Services Ltd. 14579 Government Road Larder Lake, Ontario, Canada POK1X0	7.24	Left in Place	Metal Collar Cap	No	No	2022-01-09	2022-01-16	S.Hicks/K.Makwana
MCD22058A	502502.06	5249275.64	396	25.55	-51.06	15	NQ	41P07E026	208567	2022-01-14	2022-01-14	G4 Diamond Drilling	Canadian Exploration Services Ltd. 14579 Government Road Larder Lake, Ontario, Canada POK1X0	5.19	Left in Place	Metal Collar Cap	No	No	2022-01-16	2022-01-16	S.Hicks/K.Makwana
MCD22058	502502.06	5249275.64	396	24.6	-51.12	150	NQ	41P07E026	208567	2022-01-15	2022-01-16	G4 Diamond Drilling	Canadian Exploration Services Ltd. 14579 Government Road Larder Lake, Ontario, Canada POK1X0	3.51	Left in Place	Metal Collar Cap	No	No	2022-01-17	2022-01-19	S.Hicks/K.Makwana
MCD22059	502524.51	5249256.52	390	39.93	-49.54	140.37m	NQ	41P07E026	208567	2022-01-17	2022-01-18	G4 Diamond Drilling	Canadian Exploration Services Ltd. 14579 Government Road Larder Lake, Ontario, Canada POK1X0	5.6	Left in Place	Metal Collar Cap	No	No	2022-03-03	2022-03-04	S.Hicks/K.Makwana
MCD22060	502552.15	5249281.59	386	40.15	-43.75	90	NQ	41P07E026	208567	2022-01-18	2022-01-19	G4 Diamond Drilling	Canadian Exploration Services Ltd. 14579 Government Road Larder Lake, Ontario, Canada POK1X0	9.18	Left in Place	Metal Collar Cap	No	No	2022-03-06	2022-03-07	S.Hicks/K.Makwana
MCD22061	502510.64	5249157.12	401	61.37	-60.09	3.14	NQ	41P07E026	208567	2022-01-19	2022-01-22	G4 Diamond Drilling	Canadian Exploration Services Ltd. 14579 Government Road Larder Lake, Ontario, Canada POK1X0	3.14	Left in Place	Metal Collar Cap	No	No	2022-01-29	2022-02-01	S.Hicks/K.Makwana
MCD22062	502511.56	5249156.15	401	121.82	-60.38	249	NQ	41P07E026	208567	2022-01-22	2022-01-25	G4 Diamond Drilling	Canadian Exploration Services Ltd. 14579 Government Road Larder Lake, Ontario, Canada POK1X0	2.68	Left in Place	Metal Collar Cap	No	No	2022-02-02	2022-02-05	S.Hicks/K.Makwana

Hole_ID	mFrom	mTo	Interval (m)	Lithology	Hue	Colour	Lith1_Grain size	Lith1_Texture	Lithology. Colour. Grain Size. Texture. Structure. Alteration. Mineralization. Veining. Lower Contact	Structure	Alteration 1	Alt1_Int	Alteration 2	Alt2_Int	Alteration 3	Alt3_Int	Mineral1	Min1 %	Mineral2	Min2 %	Mineral3	Min3 %	Vein1	Vein1 %	Vein2	Vein2 %						
MCD22057	0	7.24	7.24	Oou overburden general																												
MCD22057	7.24	25.81	18.57	Vvm mafic volcanic	D	Green Grey	fg	weakly foliated	Mafic Volcanics: dark grey to green grey, fine grained and massive looking but with a weakly defined foliation (60 DTCA) which is defined by micaceous minerals (ch/bt?) or perhaps amp. Unit is non-magnetic, hard but fairly blocky throughout becoming more broken towards lower contact. Weak pervasive chlorite alteration giving unit a slight greenish hue and moderate localized red alteration (Fe/K) predominantly associated with calcite veinlets and pale green alteration of carbonate veins, possible minor biotite or amphibole alteration. Trace fine grained vein associated with very trace and localized very fine grained disseminated cpy+py associated with calcite veinlets (i.e. 17.25m) and fine grained molybdenite bleb in a green altered qtz-vein (25.05m @ 20 DTCA; XRF: 0.63% Mo). Significant veining throughout the unit with two primary vein sets; cm-scale pale green altered and often blotchy looking carb-veins which are most often fabric parallel; cm-scale calcite veinlets +/- qtz which are often brecciated, red altered (Fe/K) and sometimes displaced ~1cm (i.e. 17.25m), these veins range from 20-60 DTCA (i.e. 1cm red altered qtz-carb-veinlet @ 10.18m @ 20 DTCA; 2cm brecciated qtz-rich qtz-carb veinlet which is red altered @17.25m @ 60 DTCA). Lower contact is faulted and broken.	weakly foliated	chlorite alteration	wk	potassic	wk mod			py	0.1	cp	0.01						vqc	1	vcb	1			
MCD22057	25.81	29.91	4.10	Fault	D	Green Grey	fg	blocky	Fault/Brittle Zone: meter-scale of broken to rubbly mafic volcanics ending at 28.86m (24cm lost) with mm-scale randomly oriented and red stained calcite veinlets/stringers appear to brecciated volcanic fragments. 28.86m to lower contact is slightly more competent however volcanics remain blocky to broken with several fabric parallel (~60 DTCA) cm-scale pale green altered qtz-veins +/- calcite locally with minor pinkish red alteration (Fe/K) and a 3cm green qtz-rich vein which has a more pistachio green colour (epidote) at 29.23m. Lower contact is sharp @ 55 DTCA.	broken	chlorite alteration	wk	potassic	wk	epidote alteration	v wk								vqz	0.1	vcb	0.1					
MCD22057	29.91	30.81	0.90	Gfu felsic rock (undifferentiated)	M	Pink Orange	mg	massive	Felsic Dyke: medium pink orange, medium grained, massive and non-magnetic. Unit is hard but quite blocky to broken. 15cm interval at (30.67m to LC) which is a darker pink red colour, finer grained and brecciated with mm-scale calcite veinlets observed, interval may be fault gouge at lower contact or an alteration halo of the intruding felsic dyke. Lower contact is sharp at 40 DTCA.	massive														vcb	0.1							
MCD22057	30.81	39.16	8.35	Vvm mafic volcanic	D	Green Grey	fg	blocky	Mafic Volcanics: medium to dark grey to green grey, fine grained and weakly foliated (60-70 DTCA) which is defined by micas (ch/bt/amp?). Unit is non-magnetic and consistently blocky throughout. Minor pervasive chlorite alteration giving unit a greenish hue, possible weak biotite alteration, weak patchy carbonate alteration associated with calcite veining, minor localized red alteration (Fe/K) associated with calcite veins/breccia veins and minor localized pale green (epidote?) alteration of most qtz-veins throughout unit which are often quite blotchy looking. Very trace, very fine grained vein associated with py. Two primary vein sets observed; significant pale green altered qtz-veins which are fabric parallel (60-70 DTCA) and red altered often brecciated calcite veins; series of mm-scale, cross-cutting vuggy red altered calcite veins at upper contact (20 DTCA and 70 DTCA); brecciated qtz-carb vein with minor green and red alteration (37.8m @ 65 DTCA); 10cm brecciated interval with yellowish green alteration and deep red alteration emanating from fractures (37.06m). Lower contact is faulted and broken to rubbly.	weakly foliated	chlorite alteration	wk	potassic	wk mod	epidote alteration	v wk	py	0.1									vqz	1	vcb	0.1		
MCD22057	39.16	40	0.85	Fault Breccia	M	Grey	mfg	fragmental or as fragments	Fault Breccia: medium grey, healed clast supported fault breccia with fine to coarse grained angular fragments of mafic volcanics likely caused by the intruding felsic dyke that follows. Minor chlorite and calcite alteration/fracture fill with weak pervasive light pinkish red alteration (Fe/K). Lower contact is sharp but undulatory ~20 DTCA.	fault breccia	potassic	wk mod	chlorite alteration	wk mod	carbonate alteration	v wk									vcb	0.1						
MCD22057	40	41.35	1.35	Gfu felsic rock (undifferentiated)	M	Pink Orange	mg	brecciated	Felsic Dyke: medium pink orange, medium grained, massive and non-magnetic. Unit is hard but relatively brecciated as it is cut by mm-to cm-scale calcite breccia veins which are often vuggy and run from subparallel to ~60 DTCA. Very trace, blebby brassy silvery mineral (nickeline?) observed in the calcite breccia (40.5m; XRF: 1.16% Ni, 0.10% Co). Lower contact is sharp but undulatory and appears to be ~15-20 DTCA.	massive								ni	0.1	co	0.1				vcb	1						
MCD22057	41.35	45.37	4.02	Fault Breccia	M	Grey	mfg	fragmental or as fragments	Fault Breccia: medium grey, healed fault breccia resembling that above the felsic dyke (39.16-40m). Unit is fragmental with fine to coarse grained angular fragments of mafic volcanics which are significantly chloritized. Unit is non-magnetic, hard but very blocky to broken throughout with significant rubble ~43.15m with a minor mud component and 2cm red coloured fault gouge (42.88m @ 40 DTCA) immediately followed by two cross-cutting 1cm qtz-rich qtz-carb veins. Minor deep red alteration along fractures and slip surfaces with significant pale green alteration/fracture fill. Sporadic and randomly oriented qtz-stringers/veinlets throughout unit often altered green (epidote?); two subparallel (40 DTCA) calcite-rich qtz-carb veinlets towards lower contact with significant deep red and pale green alteration followed by a 10cm brecciated predominantly green altered qtz-vein with deep red fractures which appears to delineate the lower contact which is sharp @ 70 DTCA.	fault breccia	chlorite alteration	wk mod	potassic	wk mod	epidote alteration	mod										vqc	1	vqz	0.1			
MCD22057	45.37	73.86	28.49	Vvm mafic volcanic	D	Green Grey	fg	weakly foliated	Mafic Volcanics: medium grey to green grey, fine grained and massive looking with a weakly defined foliation (50-60 DTCA) flattening to ~10 DTCA from 68-71m. Unit is non-magnetic, hard and competent but slightly blocky for first 3m. Possible intercalated sediments (siliceous siltstones) throughout unit (i.e. ~68-70m) and several sub-meter scale felsic granitic dykes (i.e. 69.08m with UC @ 60 DTCA and LC 10 DTCA; 65.75m @ 45 DTCA) which resemble the larger pink orange felsic dykes intersected uphole. Weak pervasive chlorite alteration throughout unit (possible bt?), localized pervasive carbonate alteration associated with calcite veinlets, significant pale green alteration of qtz-veins (epidote/sericite?) throughout unit (i.e. ~59m, 61.7m) with a 10cm band of strong pervasive green and cream coloured alteration (sericite?) straddling 52m, localized deep red alteration associated with veining and fractures with an interval of blotchy deep red alteration from 66-70m. Trace vein associated sulphides throughout with blebby ga, sph, cpy all observed sporadically (i.e. blebby ga associated with green altered qtz-breccia at 46.55m; XRF: 1.93% Pb; minor sph-ga along vein margins of green altered qtz-vein at 64m; XRF: 1.8% Zn, 0.8% Pb; blebby fracture fill ga at 57.74m; XRF: 1.91% Pb; blebby sph-py with anomalous Co in calcite stringer at 62.36m; XRF: 1.71% Zn, 0.01% Co). Significant veining observed throughout unit with sections of the volcanics appearing completely brecciated by mm-scale veinlets/stringers especially towards upper contact of hole; sporadic mm-to cm-scale green altered often blotchy looking qtz-veins which are predominantly fabric parallel (50-60 DTCA) which often have mm-scale stringers associated with them giving a brecciated appearance; almost constant mm-scale calcite stringers throughout unit; two perpendicular cm-scale (2-5cm) white qtz-veins with trace sph and minor at 57m and 57.26m; 1cm calcite vein with very minor red alteration along vein margins and trace blebby sph-ga (62.15m @ 25 DTCA; XRF: 0.57% Zn, 0.56% Pb); 1cm orange pink dykelet with a 1-2cm offset observed towards lower contact (71.35m @ 10 DTCA). Lower 1-2m of unit is very deformed and appears to be tectonic (possibly result of intruding dyke) as the mafic volcanics are slightly brecciate with a healed blocky texture as the foliations are visually offset/displaced, pervasive light grey alteration with a shallow foliation (~15-20 DTCA) and orange red alteration or possible dyke fragments within last 25cm of unit. Lower contact is @ 60 DTCA.	weakly foliated	chlorite alteration	wk	potassic	wk mod	epidote alteration	wk	sp	0.1	ga	0.1	co	0.01							vqz	2	vcb	1

MCD22057	73.86	82.04	8.19	Gfu felsic rock (undifferentiated)	M	Pink Orange	fmg	brecciated	Felsic Dyke: light to medium pink orange colour, cryptic medium grained massive texture which appears to be overprinted by alteration likely due to the intense healed fracturing observed throughout the unit, a significant qtz component of the dyke becomes more visible towards lower contact. Unit is non-magnetic, hard but quite blocky with a broken to rubbly interval from 76.9-77.5m and even the more competent intervals are very heavily fractured, although healed. The unit may consist of two separate felsic dykes or encompass a meter-scale clast/inclusion of the adjacent mafic volcanics as the interval from 78m to 79.3m resembles the tectonic/brecciated mafic volcanics at the lower contact of the previous unit; shallow foliation (10-20 DTCA) with visible faulting/offsets, light grey alteration with several red to orange red alteration blebs and/or dyke fragments towards the lower section of this interval. The lower contact of first dyke is 40 DTCA which is also the upper contact of the second dyke at 79.33m. Distinct vuggy brecciated interval of contrasting light salmon pink and deep blood red alteration and increased calcite fracture fill from 80.6-81m, structure appears to have an orientation of ~20-40 DTCA. Minor chlorite alteration/fracture filling observed with matt black mineral (ch?) often coating fractures, trace localized calcite sometimes replacing the chlorite as fracture fill and localized deep red (hematite?) alteration. Very trace fracture controlled py or observed along slip surfaces, very trace fracture controlled sph+/ga (i.e. 77.67m; XRF: 0.84% Zn, 0.43% Pb). Thin brecciated calcite vein with an increase in deep red alteration (80.54m @ 70 DTCA). Lower contact is broken and rubbly.	chlorite alteration	carbonate alteration	hematite alteration	wk	py	0.01	vcb	0.1							
MCD22057	82.04	98.52	16.48	Vm mafic volcanic	D	Green Grey	fg	weakly foliated	Mafic Volcanics: medium to dark grey to green grey, fine grained with a weakly defined foliation (60-70 DTCA) which is defined by micaceous minerals (ch/bt?) or possibly amphibole. Unit is non-magnetic, hard and competent with a couple minor short blocky sections (i.e. 97.73m) with another associated with a small 15cm pinkish orange felsic dyke at 96.64m (contacts at 70 DTCA) and a small fold observed in an altered qtz-vein (93.14m). Weak pervasive chlorite alteration giving unit a slight greenish hue, possible minor pervasive biotite/amphibole alteration, localized pale green alteration of qtz-veins (ep/ser/ch?), very minor localized pinkish red alteration of qtz-veins (i.e. 93.14m). Trace to minor vein associated sulphides (py-sph-gar/-cpy) throughout unit. Significant pale green altered qtz-veins which are predominantly fabric parallel (60-70 DTCA) but with several exhibiting a steep fabric parallel upper contact but with a shallower lower contact (40-50 DTCA) (i.e. 5cm pistachio green altered qtz-vein with steep UC and shallow LC @ 91.26m) with sporadic and randomly oriented cross-cutting mm-scale veinlets/stringers (i.e. blebby cpy in mm-scale veinlet at 85.09m @ 55 DTCA; XRF: 1.58% Cu) with a 1cm non-green altered fabric parallel qtz-vein with minor blebby cpy-ga and anomalous Ni and Ag (95.3m @ 75 DTCA; XRF: 0.88% Pb, 0.6% Cu, 0.01% Ni with 68g/t Ag); 1cm green altered fabric parallel qtz-vein (86.89m @ 70 DTCA; XRF: 1.01% Pb, 0.82% Zn); 2-3cm green altered brecciated qtz-carb vein with a 40 DTCA UC and a 70 DTCA LC with minor sph+/cpy (88.53m; XRF: 2.42% Zn, 0.21% Cu); 3cm weakly brecciated and offset green altered qtz-vein with minor sph (90.2m @ 70 DTCA; XRF: 1.22% Zn). Lower contact is sharp @ 50 DTCA.	weakly foliated	chlorite alteration	biotite alteration	epidote alteration	wk	sv	0.1	sp	0.1	ga	0.1	vqz	1	vqc	0.1
MCD22057	98.52	99.49	0.97	Gfu felsic rock (undifferentiated)	M	Pink Orange	fg	massive	Felsic Dyke: medium pink orange, fine grained and massive granitic dyke. Unit is non-magnetic, hard and competent. Very fine grained white micaceous looking specs which may indicate weak pervasive sericite (muscovite?) alteration. Unit is cut by randomly oriented sub- to mm-scale qtz veinlets/stringers which are often vuggy. Lower contact is sharp undulatory at a much lower angle than the upper contact (25 DTCA).	massive	sericite alteration	v wk												
MCD22057	99.49	117.5	18.01	Vm mafic volcanic	D	Grey	fg	weakly foliated	Mafic Volcanics: dark grey, fine grained and weakly foliated (60-70 DTCA) which appears to be defined by micas (ch/bt?) or possibly amphiboles. Unit is non-magnetic, hard and competent. Weak pervasive chlorite alteration with possible biotite/amphibole alteration, minor localized pale green alteration of qtz-veins (ser/ep?) throughout unit and deep red alteration along 25cm granitic dyke margins at 108.76m and proximal mm-scale qtz-veinlets. Very trace, fine grained, blebby vein associated py predominantly associated with cross-cutting sub-mm- to mm-scale calcite veinlets/stringers and very trace sph+/cpy associated with felsic dykelets and green altered qtz-veins. Several cm-scale (2-4cm) light pink and fine grained felsic dykelets cutting unit at 65 DTCA with a 25cm pinkish red medium grained felsic dyke with significant calcite fracture filling, upper contact is at 40 DTCA and lower contact is broken (faulted). Numerous cm-scale pale green altered, blotchy looking qtz-veins which are predominantly fabric parallel and numerous cross-cutting sporadically oriented (15-70 DTCA) mm-scale calcite veinlets/stringers; 6cm green altered qtz vein with slightly brighter green (ep?) and unusual texture relative to other veins with coliform textured vein margins (111.43m @ 75 DTCA). Lower contact appears interbedded parallel to the prevalent fabric (60-70 DTCA)	weakly foliated	chlorite alteration	potassic	epidote alteration	wk	py	0.1	sp	0.1		vqz	1	vcb	0.1	
MCD22057	117.5	126.38	8.88	Sag argillite	D	Grey Black	vfgfg	bedded/bedding general	Argillites/Siltstones with Minor Mafic Volcanics: dark grey black, aphanitic and thinly laminated to bedded (50-70 DTCA) with a couple sub-meter-scale, lighter grey, fine grained and weakly foliated mafic volcanics (i.e. 120.38-120.66m, 121.26-121.73m) and some minor pinkish buff coloured cm-scale cherty layers/beds (i.e. 122.2-122.32m), possible interflow sediments. Unit is non-magnetic, hard and competent with broken to rubbly section associated with a mafic volcanic interval at 121.72m. Very minor pervasive chlorite alteration, significant pale greenish alteration (ser/ep?) of qtz-veins and localized beds/bands also prevalent in a cm-scale interval of convoluted bedding from 119.18-119.49m, weak localized pinkish red alteration associated with calcite veining proximal to a mafic volcanic interval (120.14-120.3m). Very trace vein associated py. Significant pale green altered, blotchy qtz-veins throughout unit which are predominantly fabric parallel with several low-angle (15-25 DTCA) cross-cutting calcite veinlets (i.e. 117.9m @ 15 DTCA) often with minor blebby py with a couple high angle sub-cm-scale cross-cutting calcite veinlets towards lower contact (i.e. 124.83m @ 70 DTCA). Minor siliceous/cherty component towards lower contact which appears slightly interbedded. Contact is fabric parallel at 70 DTCA.	foliated	chlorite alteration	epidote alteration	wk mod	potassic	v wk	py	0.1		vqz	1	vcb	0.1		
MCD22057	126.38	133.22	6.84	Sct chert	L	Grey	fg	weakly foliated	Cherty Metasediments (Quartz Arenite?): light grey, fine grained and massive looking but with a weakly defined foliation (60 DTCA). Unit is non-magnetic, hard and siliceous and competent but slightly blocky from upper contact to 129m. Very weak and localized chlorite alteration observed in fractures and along slip surfaces. Trace fracture controlled blebby py throughout with very trace fracture controlled ga (i.e. 127.64m; XRF: 0.76% Pb). 1cm calcite vein (126.69m @ 85 DTCA) associated with blocky interval and a 5mm qtz-vein (128.81m @ 40 DTCA). Minor chloritic fractures throughout unit. Lower contact is sharp @ 60 DTCA.	weakly foliated	chlorite alteration	v wk	py	0.1										

MCD22057	133.22	140.44	7.22	Vvm mafic volcanic	D	Grey	fg	weakly foliated	Mafic Volcanics: medium to dark grey, fine grained and weakly foliated (60-70 DTCA) with a sub-meter-scale interval of light grey cherty metasediments (136.54-137.37m) which remain fabric parallel. Unit is non-magnetic, hard and competent becoming slightly blocky towards lower contact. Weak pervasive chlorite alteration and localized carbonate alteration along fracture/slip surfaces with trace vein associated and fracture controlled blebby py. Several pale green altered qtz-veins often with a blotchy looking texture (i.e. 138.69m @ 60 DTCA); shallow angled 1cm calcite veinlet at upper contact with significant chl (133.4m @ 15 DTCA); 5cm pinkish white, fine grained felsic dyke (possible altered qtz-vein) with fine grained weakly foliated qtz-ribbons (136.32m @ 60 DTCA); 6cm pale green altered and slightly brecciated qtz-vein (139.98m @ 60 DTCA). Lower contact is shar @ 25 DTCA.	weakly foliated	chlorite alteration	wk	epidote alteration	v wk	py	0.1			vqz	0.1						
MCD22057	140.44	145.49	5.06	Gfu felsic rock (undifferentiated)	L	Pink	mg	blocky	Felsic Dyke: light to medium pink, medium grained, massive and equigranular. Unit is non-magnetic, hard but blocky and broken throughout. Very weak black chloritic alteration observed along slip surfaces and very trace very fine grained fracture controlled py. Several mm-scale qtz-veins proximal to upper contact at 40 DTCA; 6cm qtz-carb-vein at upper contact which appears barren and has an upper contact at 70 DTCA with a chloritic slip as a lower contact at 40 DTCA; 2cm brecciated calcite-rich brecciated qtz-carb vein delineating the lower contact which is fractured but sharp @ 40 DTCA.	broken	chlorite alteration	v wk						vqc	0.1							
MCD22057	145.49	167.08	21.59	Vvm mafic volcanic	D	Green Grey	fg	weakly foliated	Mafic Volcanics: medium to dark grey with a faint greenish hue, fine grained with a weakly defined foliation (50-60 DTCA) defined by micaceous minerals (chl/bt?) or possibly amphiboles. Unit is non-magnetic, hard and competent. Weak pervasive chlorite alteration, minor pale green alteration of qtz-veins throughout with a half meter of pale green and cream coloured qtz-veins at 163m, very localized faint pinkish orange alteration of qtz to qtz-carb veins (i.e. 156.28m, 166.2m). Very trace vein associated py and very localized minor sph (i.e. 2cm pinkish red and green altered qtz-carb vein at 166.19m @ 55 DTCA; XRF: 0.22% Zn). Significant cm-scale pale green altered blotchy qtz-veins which are predominantly fabric parallel and locally brecciated (i.e. 156.16m @ 40 DTCA); 3cm pink and green altered qtz-carb vein (156.26m @ 60 DTCA); 10cm green altered and slightly brecciated qtz vein (158.18m @ 60 DTCA); 40cm interval of significant pale green altered and fabric parallel qtz-veins at 163.25m; 1cm undulatory calcite vein with pink and green altered vein margins (166.96m @ 60 DTCA). Lower contact appears slightly interbedded as the volcanics appear to begin incorporating minor metasediments ~ 167.1m.	weakly foliated	chlorite alteration	wk	epidote alteration	wk mod	potassic	v wk	py	0.1			vqz	1	vqc	0.1		
MCD22057	167.08	168.83	1.75	Sgw greywacke	M	Grey	fg	bedded/b edding general	Greywacke: medium grey, fine grained, thinly laminated to bedded metasediments (60 DTCA) with possible feldspar or qtz porphyroblasts which bedding appears to wrap around (i.e. 167.32m). Unit is non-magnetic, hard and competent. Weak light grey alteration observed in some bands/beds (sericite?) while others display a dark brown red colour likely result of weak hematite alteration. Very trace disseminated py with very few fabric parallel pale green altered qtz-veins. Lower contact is sharp @ 60 DTCA.		sericite alteration	wk	hematite alteration	v wk												
MCD22057	168.83	170.3	1.47	Sif iron formation general	D	Grey Black	vfg	massive	Iron Formation: dark black with a purplish red hue in spots, aphanitic and massive with the fabric only apparent in a 5cm interval of garnetiferous metasediments (argillites) at 70.08m. Unit is strongly magnetic, hard and competent with a blocky to broken upper contact and a short broken to rubby section at 169.8m. Moderate pervasive hematite alteration observed as purplish red staining and very weak carbonate alteration proximal to calcite veinlets/stringers. Minor medium grained blebby py along with minor vein associated subhedral to blebby py locally with anomalous Ni (i.e. 169.42m; XRF: 0.12% Ni). Minor mm-scale calcite veining throughout predominantly at 60 DTCA but with multiple sporadic and randomly oriented stringers as well. Lower contact is sharp @ 70 DTCA.	massive	hematite alteration	mod	carbonate alteration	v wk	py	1	ni	0.01		vcb	0.1					
MCD22057	170.3	172.72	2.42	Sag argillite	D	Grey	vfg/fg	bedded/b edding general	Argillites: dark grey to grey black, aphanitic to fine grained, and laminated to bedded (~60 DTCA). Unit is predominantly non-magnetic with a couple 1-2cm bands of moderate to strongly magnetic iron formation (i.e. 171.35m, 171.55m). Argillites are garnetiferous with multiple beds/layers being completely replaced by medium to coarse grained subhedral pinkish purple garnets which appear to be secondary. Weak pervasive chlorite alteration, weak patchy purple red hematite alteration with significant fine and medium grained, blebby, fabric parallel and fracture controlled py throughout. Lower contact is sharp @ 55 DTCA.	foliated	chlorite alteration	wk	hematite alteration	wk	argillic alteration	py	1									
MCD22057	172.72	198.4	25.68	Vvm mafic volcanic	D	Grey	fg	weakly foliated	Mafic Volcanics: dark grey to green grey, fine grained groundmass with fine grained amphiboles defining the weak fabric/foliation (60-70 DTCA). Unit is non-magnetic, hard and competent with a broken to rubby section at 177.78m. A couple intervals appear to be quite siliceous and more banded with faint pinkish red alteration of localized bands, they may represent silicified intervals of the mafic volcanics or perhaps they are sub-meter-scale interbeds of cherty metasediments, the largest is from 178.63-179.4m. Another 20cm interval of possible intercalated metasediments, from 177-177.2m, exhibits the faint pinkish red staining along with convoluted bedding and greenish yellow felsic veinlets (qtz?). Weak pervasive chlorite alteration, possible weak sporadic amphibole alteration as fine grained amphibole are observed defining the foliation in localized intervals/bands (coarser grained flows?) with minor pale green alteration of blotchy textured qtz-veins often observed anastomosing (i.e. 182.75m). Very trace vein associated py-sph-ga+/cpy. Significant cm-scale (1-2cm) pale green altered carb to qtz-carb veins which are blotchy in appearance and often observed anastomosing in core with trace sph (i.e. 182.8m; XRF: 1.82% Zn); multiple mm-scale cross-cutting qtz-veinlets throughout with trace blebby sph-ga all ~30 DTCA (i.e. 182.69m @ 30 DTCA; XRF: 1.95% Pb; 183.2m @ 30 DTCA; XRF: 2.0% Zn, 0.61% Pb); 1cm low angle calcite vein with trace fine grained py+/cpy followed by a cm-scale breccia vein which appears to fracture and break the host rock (20 DTCA @ 177.58m); 2cm calcite breccia vein with trace subhedral py along vein margins (186.28m @ 30 DTCA). Lower contact is shar @ 80 DTCA.	weakly foliated	chlorite alteration	wk	potassic	v wk	epidote alteration	v wk	sp	0.1	ga	0.1	py	0.1	vqc	1	vcb	0.1
MCD22057	198.4	200.91	2.51	Fault	D	Black	vfg	blocky	Fault/Argillites: the unit is centered around a fault ~198.84m, where 5cm of black argillic material is significantly fractured and healed at 60 DTCA with minor calcite fracture fill is bounded by blocky to broken core. The fault is also bounded by ~1m of black, aphanitic and bedded/foliated argillites with faint light grey patchy alteration banding perhaps representing relic bedding. The black argillites taper off ~199.5m back into the medium to dark grey mafic volcanics. Lower contact is sharp @ 80 DTCA.	broken	argillic alteration	mod	chlorite alteration	wk												
MCD22057	200.91	203.32	2.41	Gfu felsic rock (undifferentiated)	M	Pink	fg	massive	Felsic Dyke: medium pink, fine grained and massive looking but with a very weakly defined foliated (55 DTCA) defined by the mafic minerals (bt/amp?). Unit is non-magnetic, hard but blocky and broken throughout. Very minor calcite+/chl alteration observed along slip surfaces and very trace, very fine grained disseminated py associated with the fine grained mafic minerals. Lower contact is shar at 65 DTCA followed by a 5cm block of heavily fractured dyke with significant calcite fracture filling before the actual lower contact which is faulted and broken, possibly ~60 DTCA.	weakly foliated	carbonate alteration	v wk	chlorite alteration	v wk												

MCD22057	203.32	210.41	7.09	Vm mafic volcanic	D	Grey	fmg	foliated	Mafic Volcanics: dark grey, fine grained and weakly foliated. Foliation begins shallow ~25 DTCA at upper contact but gradually steepens to 60-70 DTCA by 207m. Unit is non-magnetic, hard and competent throughout. Weak pervasive chlorite alteration with a meter-scale interval of strong epidote alteration of qtz-veins from 206-209m, the qtz veins (+/- calcite locally) are fabric parallel and up to 50cm (i.e. 207-48m). Epidote alteration may accentuate the foliation as unit appears to be more banded throughout ep-alteration and towards lower contact (possible metasediment component). Trace fine grained vein associated py. Intense veining (ep-altered) from 206-210m, predominantly the fabric parallel qtz-veins with a secondary set which remain unaltered and cross-cut the earlier set (i.e. 206.79m @ 50 DTCA). Lower contact is sharp @ 50 DTCA.	foliated	chlorite alteration	wk	epidote alteration	str	py	0.1	vqz	20	vqc	1				
MCD22057	210.41	212.37	1.97	Sag argillite	D	Grey Black	vfg	bedded/b edding general	Intercalated Argillites and Cherty Metasediments: upper portion of unit (UC to 211.39m) consists of dark grey black, aphanitic, thinly laminated to bedded argillites (60-70 DTCA). The argillites contain garnetiferous layers/beds where medium to coarse grained subhedral pinkish purple garnets (i.e. 210.68m) and significant fabric parallel blebby to semi-massive py+/cpy with localized layers/beds with significant fabric parallel blebby aspy as well as a 5cm layers/bed of jet black argillites with fine grained acicular aspy at 211.23m. The unit transitions to medium grey with purplish red bands/beds of cherty metasediments which are thinly laminated (50-70 DTCA) with very trace fracture controlled py. Weak pervasive chlorite alteration throughout with argillic alteration in the upper portion of the unit. Lower contact appears interbedded but is fabric parallel ~60 DTCA.	foliated	chlorite alteration	wk	argillic alteration	wk	py	2	as	1						
MCD22057	212.37	221.38	9.01	Vm mafic volcanic	M	Grey	fmg	foliated	Mafic Volcanics: medium grey, fine to medium grained with a weak foliated which appears to be defined by amphiboles (30-50 DTCA). Unit is hard, competent and non-magnetic save for a mm-scale qtz-veinlet with a 5mm mgt alteration halo (217.25m @ 50 DTCA). Weak pervasive chlorite alteration with a patchy white (feldspar/sericite?) alteration which gives the mafic volcanics a more of a coarse grained flow texture and accentuates the amphiboles (i.e. 214-214.7m). Significant very fine grained and blebby vein associated py which is prevalent in numerous cm-scale (up to 50cm) qtz-veins locally with minor calcite, the py gives the veins a distinct speckled texture. The py-bearing speckled qtz-veins have a very feint greenish hue and often appear folded and convoluted; 25cm interval of an apparent convoluted qtz-vein with no sharp distinct contacts (80 DTCA?) which anastomoses along with significant coarse grained py emanating from fractures within the vein (213.35m); 8cm pale green altered qtz-vein with very minor calcite and very fine grained disseminated py giving vein a speckled texture (213.66m @ 30 DTCA); 35cm altered qtz-vein with significant very fine grained disseminated py giving vein a speckled texture, vein appears to fold or meander with an upper contact at (219.10m @ ~25 DTCA; a couple mm-scale cross-cutting barren qtz-veins between 217-218m at 25-30 DTCA. Lower contact appears slightly interbedded as the volcanics begin to look more banded and have a metasediments component. Contact is fabric parallel between 221-222m.	foliated	chlorite alteration	wk	carbonate alteration	v wk	py	1			vqz	1	vqc	0.1		
MCD22057	221.38	228.57	7.19	Sag argillite	M	Grey Black	vfgfg	bedded/b edding general	Argillites: dark grey black, aphanitic and thinly laminated to bedded (60-70 DTCA) with a 20cm interval where bedding flattens to 30 DTCA (227m). Several sub-meter intervals are a lighter grey with minor cream coloured bands (sericite?) and represent short greywacke interbeds (i.e. UC to 222m, 223.5-224.1m). Unit is non-magnetic save for an altered calcite vein which is moderate to strongly magnetic (222.9-223.35m), unit is hard and competent. Weak pervasive chlorite alteration, moderate pervasive carbonate alteration halo (10-15cm) to the above mentioned calcite vein and minor argillic alteration and localized medium to coarse grained subhedral pinkish purple garnets in localized layers/beds of the argillites (i.e. 223.69-223.79m), also the unit appears to become harder and more siliceous towards lower contact beginning ~227m. Minor vein associated py throughout and fine to medium grained, blebby fabric parallel and finely disseminated py+/cpy from 225-225.5m. Minor sub-cm-scale, fabric parallel qtz to t-carb veinlets throughout with several larger cm-scale calcite veins; 12cm altered calcite vein with fine grained disseminated py giving vein a speckled texture (221.87m @ 50 DTCA); 5cm calcite vein with very minor qtz and a 2cm calcite alteration halo, vein has significant epidote which is forming radially (222.64m @ 30 DTCA); 50cm interval of strong pervasive clcite alteration with a vein although the contact of the vein and the alteration halo is cryptic and difficult to discern, the vein is moderate to strongly magnetic with significant blebby and finely disseminated py giving the vein a speckled texture, the orientation of the alteration halo is fabric parallel however the vein appears to be shallower ~30 DTCA (223m). Lower contact is sharp @ 45 DTCA.	foliated	chlorite alteration	wk	carbonate alteration	wk mod	sericite alteration	v wk	py	1		vcb	2			
MCD22057	228.57	229.32	0.75	Gfu felsic rock (undifferentiated)	L	Pink	mrg	weakly foliated	Felsic Dyke: light pink, medium to coarse grained and weakly foliated (60 DTCA) defined by elongated mafics (~1cm). Dyke is non-magnetic, hard and competent with very trace blebby fracture controlled py and minor pink alteration also emanating from fractures (Fe/K?). Lower contact is sharp @ 60 DTCA.	foliated														
MCD22057	229.32	231.73	2.41	Vm mafic volcanic	D	Grey	vfg	weakly foliated	Mafic Volcanics (Argillites?): dark grey, very fine grained and very weakly foliated ~60 DTCA. Unit is non-magnetic, hard, competent and very siliceous. Possible minor argillic component at upper contact as unit is slightly more banded/laminated. Very weak pervasive chlorite alteration, weak to moderate pervasive silica alteration. Trace vein associated py with only minor veining; 10cm ale green altered qtz-vein with very minor calcite and fine grained disseminated py (229.48m @ 50 DTCA); couple cm-scale calcite blotches with significant chl and blebby to finely disseminated py between 213-231.5m. Lower contact is sharp and appears fabric parallel (~45 DTCA).	weakly foliated	chlorite alteration	wk	carbonate alteration	v wk	silica alteration	wk mod	py	0.1		vqc	0.1	vcb	0.1	
MCD22057	231.73	236.52	4.80	Vqc Quartz Carbonate Vein	L	Pink Brown	fg	brecciate	Quartz-Carbonate-Breccia Zone: meter-scale brecciated host rock which is a light pinkish buff, very fine grained and strongly silicified, appears to be altered mafic volcanics. Unit is non-magnetic, hard and siliceous but consistently blocky to broken throughout with some more rubbly sections (i.e. 232.85-233.4m). The main vein appears to be a 10cm, pale yellowish green qtz-rich vein with significant dark green, cm-scale chloritized wall rock fragments at an angle of 40-50 DTCA. The majority of the breccia veins are calcite-rich averaging ~1cm in thickness with an orientation of 20-40 DTCA; 3cm qtz-rich vein with ale green (ep?) vein margins intersects the unit at 70 DTCA (234.3m). The feint pinkish brown alteration is pervasive throughout the unit (Fe/K?) with only trace sporadic pale green alteration of the more qtz-rich veins. The majority of the breccia veins appear barren with only very trace, fine grained blebby py+/cpy and anomalous Co (i.e. 233.05m; XRF: 0.38% Cu, 0.02% Co; 236.21m; XRF: 0.28% Cu, 0.04% Co). Lower contact is sharp at 25 DTCA followed by a faulted broken interval.	vein/veining	potassic	mod	epidote alteration	wk	py	0.1	co	0.1	cp	0.1	vcb	5	vqc	2
MCD22057	236.52	240.2	3.68	Vm mafic volcanic	D	Grey	vfgfg	weakly foliated	Mafic Volcanics: dark grey, aphanitic to fine grained and weakly foliated (50-70 DTCA). Unit is non-magnetic, hard and competent save for a blocky interval at upper contact. 20cm light pink, coarse grained felsic dyke (238.98m @ 45 DTCA) cut by a barren 2cm qtz vein (55 DTCA). Weak pervasive chlorite alteration and localized pale green alteration (ep/ser?) of qtz-veins and pervasively in a sub-meter interval from 238-239.7m. Trace vein associated py with a couple cm-scale ale green altered qtz-carb-veins (i.e. 238.67m @ 55 DTCA). Lower contact is sharp @ 55 DTCA.	weakly foliated	chlorite alteration	v wk	sericite alteration	v wk	py	0.01			vqc	0.1				

MCD22058	3.51	63.07	59.56	Ggb gabbro	D	Green	mcb	massive	Coarse Grained Flow (Mafic Subvolcanics?): medium to dark green, medium to coarse grained and massive looking as unit appears to be one large homogeneous looking unit/flow but with a weakly defined foliation which is define by coarse grained blotchy chlorite (~75 DTCA), foliation becomes more apparent proximal to intruding veins/dykes and visible kink-folds/crenulations observed locally (i.e. 28.53m, 29.2m). Unit is non-magnetic, hard and competent with several blocky intervals and a blocky to broken interval straddling a cm-scale calcite vein at 17.12m. Weak to moderate pervasive chlorite alteration observed as medium to coarse grained chl-eyes/blotches, minor sporadic sericite alteration observed as very fine grained white specks often foliated with localized pinkish red staining of a more strongly foliated to banded interval from 28.52-29m. Trace vein associated blebby py+/-cpy throughout with localized vein and dyke associated ga locally associated with anomalous Ag (i.e. 22.11m; XRF: 0.48% Pb with 33g/t Ag). Three cm-scale (5-10cm) light pinkish, medium to coarse grained felsic dykes intersected between 20-22.25m which cross-cut the unit at 20-30 DTCA, very trace fine grained py-ga+/-cpy with anomalous Ag in the dyke at 22.07m which has a 2cm calcite vein delineating the upper contact; 2cm pink altered felsic dykelet with significant disseminated blebby cpy (32.7m @ 15 DTCA). Minor veining throughout with two distinct species; a set of qtz-rich fabric parallel veins (60-75 DTCA) with trace blebby py+/- cpy (i.e. 45.9m @ 65 DTCA; XRF: 0.13% Cu); set of mm- to cm-scale calcite veins (+/- qtz) which cut at lower angles (25-35 DTCA) with blebby py+/-cpy+/-sph locally reddish brown altered (Fe?); 1cm calcite vein with minor chl and reddish brown staining with trace ga+/-sph (10.18m @ 35 DTCA); 3cm foliated calcite vein+/-qtz with significant chl minor reddish brown staining (10.95m @ 35 DTCA); 3cm calcite vein in a broken up interval with trace blebby py-cpy (17.12m @ 25 DTCA; XRF: 0.66% Cu). Unit begins to fine towards lower contact (~55m), likely the chilled flow margin along with significant fracture controlled py from 59m to LC and shallow mm-scale qtz-carb veinlets (i.e. 59.5m @ 10 DTCA). Lower contact appears to be interbedded as a short sub-meter interval of metasediments (greywacke) at 60.83m where significant (1-2%) fabric parallel to semi-massive py with minor aspy (60.89m; XRF: 0.66% As) is observed. Lower contact is sharp @ 60 DTCA.	weakly foliated	chlorite alteration	wk mod	sericite alteration	wk	sv	0.1	py	0.1	ga	0.1	vcb	1	vqc	0.1
MCD22058	63.07	68.71	5.64	Sgw greywacke	M	Green Grey	vfgfg	bedded - graded	Greywacke: medium grey with very faint greenish hue, very fine to fine grained, thinly laminated to bedded with bedding remaining consistent ~75 DTCA. Unit is weak to moderately magnetic with a strongly magnetic interval from 65.33-65.63m, and unit is hard and competent. Moderate pervasive chlorite and sericite alteration with a 5cm band of strong pervasive sericite alteration at 64.8m with two intervals of minor graphite alteration observed as graphitic argillites; 12cm of argillites at upper contact with significant blebby py followed by ~10cm of semi-massive to massive sulphides (py+/-po+/-cpy+/-sph); 30cm interval of graphitic argillites and iron formation (strongly magnetic) from 65.33-65.63m with significant (3-5%) blebby fabric parallel to semi-massive sulphides (py+/-po+/-cpy). Significant fabric parallel and fracture controlled py throughout unit (~1%) and patchy siliceous intervals with a coupe possible blebby qtz-veins (i.e. 3cm at 63.82m @ 70 DTCA). Lower contact is sharp @ 75 DTCA.	foliated	chlorite alteration	wk mod	sericite alteration	wk mod	graphitic alteration	wk	py	1	cp	0.1	po	0.1	vqz	0.1
MCD22058	68.71	69.9	1.20	Vvm mafic volcanic	M	Green	fg	massive	Mafic Volcanics (Coarse Grained Flow?): medium green, fine grained and massive, unit may be a finer grained portion of the coarse grained flow from uphole. Unit is non-magnetic, hard and competent. Weak pervasive chlorite alteration. Lower contact is sharp @ 80 DTCA.	massive	chlorite alteration	wk												
MCD22058	69.9	80.48	10.58	Sag argillite	D	Black	vfgfg	bedded - graded	Argillites: dark grey (greywackes) grading into the black graphitic argillites, aphanitic to very fine grained and thinly laminated to bedded (70-80 DTCA). Unit is non-magnetic, hard but blocky throughout. 30cm interval of mafic volcanics from 71-71.33m. Weak to moderate pervasive chlorite alteration with moderate to strong graphitic alteration. Significant fracture controlled py throughout (~1%) with significant (1-3%) blebby fabric parallel sulphides (py+/-cpy+/-sph) to vuggy semi-massive sulphides towards lower contact. Rubby section at 70.4m adjacent to a barren 1cm calcite vein (75 DTCA). Lower contact is sharp @ 80 DTCA.	foliated	chlorite alteration	wk	graphitic alteration	wk mod	py	2	sp	0.1	cp	0.1	vcb	0.1		
MCD22058	71.72	74.71	2.99	Sct chert	M	Purple Grey	vfgfg	bedded - graded	Cherty Metasediments: light to medium grey with localized purple hued beds/layers, aphanitic to fine grained and thinly laminated to bedded (~80 DTCA) often with micro folds (crenulations) observed. Unit is non-magnetic, hard and siliceous and competent with a minor blocky lower contact. Localized chlorite alteration in some darker grey beds/layers and white speckled sericite also localized to specific beds/layers with some localized beds appearing to be vuggy or pitted (i.e. 73.21m). Significant fracture controlled py throughout (~1%) with minor blebby fabric parallel and finely disseminated py. Couple of 1cm fabric parallel qtz-veins. Lower contact is sharp @ 35 DTCA.	foliated	sericite alteration	wk	chlorite alteration	v wk	py	1				vqz	0.1			
MCD22058	74.71	74.88	0.18	Vqc Quartz Carbonate Vein	L	White	vfg	vein/veining	Quartz-Carbonate Vein: white to cream coloured calcite vein with lesser medium grey qtz in a 18cm qtz carb vein. Vein is predominantly barren with minor py-sph observed along slightly foliated lower vein margin (XRF: 0.26% Zn) and in adjacent wall rock. Lower contact is sharp @ 40 DTCA.	vein/veining				py	0.1	sp	0.1							
MCD22058	74.88	75.62	0.75	Sct chert	M	Purple Grey	vfgfg	bedded - graded	Cherty Metasediments: light to medium grey with localized purple hued beds, aphanitic to fine grained and thinly laminated to bedded (70-80 DTCA). Unit is non-magnetic, hard and siliceous with minor localized sericite alteration and minor fracture controlled blebby py. Lower contact is sharp @ 70 DTCA.	foliated	sericite alteration	v wk			py	0.1			vqz	0.1				
MCD22058	75.62	80.47	4.85	Sgw greywacke	L	Grey	fg	bedded - graded	Greywacke: light to medium grey, very fine to fine grained and thinly laminated to bedded (60-70 DTCA). Unit is non-magnetic, hard and competent. Weak pervasive sericite alteration observed as white specks throughout unit with very weak localized chlorite alteration associated with fractures. Trace to minor (~1%) fabric parallel disseminations but predominantly fracture controlled with some localized coarse grained blebby py (i.e. 78.64m, 79.33m) and trace aspy in localized beds/layers (i.e. 78.22m; XRF: 1.71% As). Lower contact is sharp @ 60 DTCA.	foliated	sericite alteration	wk	chlorite alteration	v wk	py	1	as	0.1						
MCD22058	80.47	80.5	0.04	Vcb Carbonate Vein	L	White	vfg	blocky	Calcite Vein: 6cm white brecciated calcite vein with trace py and possible dark brown red hematized chloritic wall rock fragments. Calcite vein cuts the hole at 80.24m @ 75 DTCA. The half-meter uphole the calcite vein consist of altered metasediments with portion resembling the cherty intervals and some more closely resembling the black argillites, significant blebby fracture controlled py (1-10%) almost becoming semi-massive ~79.9m is paired with minor qtz an calcite blebs fracture fill from 80m to the calcite vein. Adjacent to the calcite vein down hole are brecciated cherty metasediments and broken to rubby core at 80.41m which delineates the lower contact.	vein/veining	chlorite alteration	wk	hematite alteration	wk	py	5			vcb	2				

MCD22059	17.9	51.43	33.53	Ggb gabbro	M	Grey	mcg	massive	Coarse Grained Flow (Mafic Subvolcanic?); medium grey, medium to coarse grained becoming finer grained towards lower contact (~43m). Unit looks massive and appears to be one homogeneous unit/flow but does have a weakly defined foliation (50-60 DTCA) and proximal to localized veins unit is more strongly foliated/banded (i.e. 18.95m, 42.55m). Unit is non-magnetic, hard and competent. Moderate pervasive chlorite alteration observed as medium to coarse grained chlorite eyes/blotches which become finer grained along with unit ~43m, weak patchy pervasive carbonate alteration proximal to veins. Trace vein associated sulphides, predominantly cpy-py with localized sph-ga. Minor sporadically oriented, thin 1-2mm calcite veinlets/stringers throughout with several cm-scale Qtz carb veins; 1cm brecciated calcite vein with well foliated/banded 1.0cm halo in adjacent wall rock (19.31m @ 70 DTCA); 1cm light pink altered Qtz-vein with trace cpy+/-py (29.32m @ 35 DTCA; XRF: 0.3% Cu); 1cm foliated/sheared Qtz-carb vein with trace ga (30m @ 15 DTCA; XRF: 0.33% Pb); 3-5cm Qtz-carb vein with an unusual shape, possibly intersection between two cross-cutting veins, vein contains fine grained blebby sph and is truncated by a fracture (30.25m @ 45 DTCA; 9.09% Zn); ~1cm foliated/sheared Qtz-carb vein with trace ga (32.18m @ 20 DTCA; XRF: 0.75% Pb); 5cm Qtz-vein with very trace amounts of calcite and 3-5cm bulbous Qtz blebs emanating from primary vein with trace sph-mo (39.19m @ 60 DTCA; XRF: 0.26% Zn, 0.54% Mo); 5mm wispy calcite veinlet with trace py-sph-ga that anastomoses along core axis for ~2m (45.4m @ 15 DTCA; XRF: 0.13% Zn, 0.13% Pb). Towards lower contact unit is much finer grained and appears to transition into very thinly laminated and possibly crenulated (~80 DTCA) mafic volcanics, possibly an interbedded contact with the underlying sediments. Lower contact is fabric parallel at ~80 DTCA.	weakly foliated	chlorite alteration	mod	carbonate alteration	v wk	cp	0.1	sp	0.1	ga	0.1	vqc	1	vcb	0.1
MCD22059	51.43	55.87	4.44	Sct chert	M	Grey	vfg	bedded/b edding general	Cherty Metasediments: thin alternating medium to light grey buff and dark grey beds/laminae (60-80 DTCA) of very fine grained to aphanitic cherty metasediments and siltstones. Unit is non-magnetic, hard and siliceous but slightly blocky. Weak yellowish green sericite alteration appears to be emanating from fractures throughout but most prevalent between 53-55m. Significant fracture controlled sulphides (py-cpy-sph-ga) throughout (~1% (i.e. 51.74m; XRF: 0.79% Zn, 0.16% Cu; 52.27m; XRF: 1.91% Pb) with the majority of the fractures appearing to be replaced entirely by py, multiple beds/layers of fabric parallel blebby to semi-massive sulphides, predominantly py (i.e. 53m, 55.08m). A couple 1-2cm Qtz-veins near upper contact which are fabric parallel (~70 DTCA) with a 1-2cm brecciated catadaseite veinlet which appears to be almost entirely replaced by sph with blebby py and black heavily chloritized fragments (54.45m @ 15 DTCA; XRF: 4.51% Zn, 0.74% Pb). Lower contact is fabric parallel at 55 DTCA.	laminated	sericite alteration	wk			py	2	cp	0.1	sp	0.1	vqc	0.1		
MCD22059	55.87	64.11	8.24	Sag argillite	D	Grey Black	vfg	bedded/b edding general	Argillites: dark grey to black, aphanitic argillites with minor light to medium grey cherty sediment interbeds/laminae as unit is thinly bedded/laminated with a couple thicker more massive looking argillite beds (i.e. 57-57.75m). Bedding ranges from 60-80 DTCA with some beds to exhibiting soft sediment deformation as bedding is convoluted and can flatten to ~20 DTCA. Unit exhibits patchy moderate to strong magnetism. Weak to moderate graphite alteration observed along slip surfaces throughout the argillites and weak pervasive pale greenish sericite alteration localized to specific beds of the cherty metasediments. Significant blebby fabric parallel to semi-massive sulphides throughout unit, up to 20% in places, predominantly py but with significant amounts of sph+cpy+ga+sp+aspy (i.e. 56.64m; XRF: 2.53% Zn, 0.2% Pb; 61.35m; XRF: 8.74% Zn, 0.24% Cu, 0.20% Pb), with significant fracture controlled sulphides also observed consistently throughout unit. Semi-massive sulphides are commonly accompanied by large vugs. A couple fabric parallel 2-3cm thick sulphide-bearing Qtz-veins (i.e. 61.92m, 63.26m). Lower contact is fabric parallel 70 DTCA.	laminated	graphitic alteration	mod	sericite alteration	wk	py	10	sp	1	cp	0.1	vqc	0.1		
MCD22059	64.11	84.08	19.97	Sct chert	L	Grey	vfg	bedded/b edding general	Cherty Metasediments: light to medium grey with some beds exhibiting a faint pinkish to purple hue, aphanitic to fine grained and thinly bedded/laminated with a thicker meter-scale bed from 71-72.2m. Bedding/laminae range from 60-70 DTCA, unit is non-magnetic, hard, very siliceous and competent with several meter-scale blocky intervals (i.e. 69-71m, 74-81m). Minor weak pale yellowish green sericite alteration observed locally with very strong pervasive sericitization from 76.3-76.6m where ~20cm of core is lost and moderate pervasive sericite alteration from 78-80m which appears to be associated with increase in aspy, faint pinkish orange alteration of localized cherty beds as well as cross cutting mm-scale Qtz-veins between 65-70m, 40cm garnetiferous bed with significant fine to medium grained pinkish purple garnets. Significant fracture controlled and fabric parallel blebby cpy+/-py with several intervals of significant (~1%) finely disseminated and fracture controlled aspy (i.e. 68.6m; XRF: 6.67% As; 79.97m; XRF: 3.32% As), sulphides emanating from fractures are often very coarse grained and blebby predominantly py+/-cpy with localized vein associated sph (79.58m; XRF: 2.43% Zn), 30cm interval of semi-massive py+/-cpy straddling 75m which with significant discontinuous Qtz-blebs (mineralized breccia?). Very minor thin 1-2mm calcite veinlets stringers throughout with only a couple cm-scale Qtz to Qtz-carb veins; 3cm foliated/sheared Qtz-carb vein with significant chlorite (73.68m @ 55 DTCA); 5cm fabric parallel Qtz-vein with minor fine grained subhedral py and sph rimming vein margins (79.58m @ 75 DTCA). Towards lower contact (~82m) the reddish hued cherts increase and the sediments in general become much darker (grey black) which may be a result of an intermixing with the underlying mafic volcanics, bedding also steepens to almost perpendicular to coarse axis. Lower contact appears to be interbedded and is fabric parallel @ 85 DTCA.	laminated	sericite alteration	wk mod	potassic	wk	py	3	as	1	cp	0.1	vqc	0.1		
MCD22059	84.08	101.48	17.40	Vvm mafic volcanic	D	Grey	vfg	massive	Mafic Volcanics: medium to dark grey, aphanitic to fine grained and weakly foliated (60-80 DTCA) but often appear massive. Unit is non-magnetic, hard and competent with several blocky intervals (i.e. 88-89m, 100-101m). Weak pervasive patchy sericite alteration observed as very fine grained white specks which often define weak foliation, pale greenish alteration observed locally in Qtz-carb veins (i.e. 85.79m), red staining of veining (Fe/K?) also observed locally (i.e. 84.25m, 99.43m), light grey alteration from 100-101m where unit is heavily fracture/veined almost brecciated. Trace vein associated py+/-cpy throughout. Unit is significantly veined with multiple cross-cutting vein sets, predominantly by Qtz-carb veins/stringers with various different orientations; 3cm pale green altered Qtz-carb vein with trace py-cpy-sph (85.79m @ 40 DTCA); 1cm Qtz-carb veinlet (91.15m @ 30 DTCA); 2cm Qtz-vein (92.16m @ 50 DTCA); 3cm pale green sericitized Qtz-vein (94.36m @ 85 DTCA); 3cm pale green and cream altered Qtz vein with trace cpy-sph (94.64m @ 70 DTCA; XRF: 0.18% Zn, 0.11% Cu) followed by a 1cm Qtz-vein with trace blebby mo (94.68m @ 55 DTCA; XRF: 0.43% Mo); 1cm Qtz-carb vein with minor red staining along vein margins (96.45m @ 15 DTCA); 3cm brecciated Qtz-carb vein (97.89m @ 80 DTCA). Lower contact is sharp @ 85 DTCA.	weakly foliated	sericite alteration	wk	potassic	wk	py	0.1					vqc	3	vqc	0.1

MCD22059	101.48	104.67	3.19	Sct chert	M	Pink Grey	vfg	bedded/b edding general	Cherty Metasediments: medium grey with reddish pink beds, aphanitic to very fine grained, thinly bedded/laminated (70-80 DTCA). Unit is non-magnetic, hard and siliceous with a blocky from upper contact to 102m. Weak pervasive sericite alteration observed in localized beds, reddish pink staining of localized beds (Fe/K?). Trace fracture controlled and very fine grained fabric controlled py with very trace localized fabric parallel aspy. Lower contact is sharp and fabric parallel @ 75 DTCA.	laminated	sericite alteration	wk	potassic	wk mod	py	0.1	as	0.1								
MCD22059	104.67	140.37	35.70	Vvm mafic volcanic Oou overburden general	M	Grey	vfgfg	massive	Mafic Volcanics: medium grey, aphanitic to very fine grained, massive looking but weakly foliated (60-80 DTCA). Unit is non-magnetic, hard and competent with several blocky to broken intervals (i.e. 108-108.5m) becoming blocky to broken at lower contact. Weak pervasive chlorite alteration observed along slip surfaces, intermittent weak pervasive sericite alteration observed as very fine grained white specks which often define foliation, localized pale green (ser/ep/chl?) alteration of localized veins (i.e. 110.37m), localized red staining of veins (Fe/K?) (i.e. 113-114m). Very trace vein associated py throughout. Unit is significantly veined (~3%) and is cut by multiple different vein sets; significant thin 1.2mm calcite veinlets/stringers which cut the unit sporadically at various orientations often giving unit a brecciated appearance in intervals of concentrated thin veining (i.e. 116-116.5m); two subparallel 1cm qtz-veins in a blocky to broken up interval (108.05m @ 30 DTCA); 1cm red altered qtz-carb vein (110.75m @ 20 DTCA); 4cm qtz-carb vein with significant red alteration and trace py (113.12m @ 70 DTCA); 1cm pale green altered qtz-vein (115.95m @ 20 DTCA); 2cm brecciated calcite vein (116.05m @ 60 DTCA); 2cm qtz-carb vein (128.58m @ 57 DTCA); 4cm barren qtz-carb vein (129.4m @ 50 DTCA); 5cm pale green qtz-carb vein (146.46m @ 65 DTCA). EOH	weakly foliated	sericite alteration	wk mod	potassic	v wk	chlorite alteration	v wk	py	0.1		vqc	3	vcb	0.1			
MCD22060	0	9.18	9.18																							
MCD22060	9.18	27.78	18.60	Ggb gabbro	D	Grey	mg	massive	Coarse Grained Flow (Subvolcanic?): dark grey, medium grained, massive to weakly foliated (70-80 DTCA) which is more apparent towards lower contact and in short localized 5-10cm intervals/bands (i.e. 20.65m, . Unit is non-magnetic, hard and competent. Light pink 9cm felsic dyke with trace py (19.56m @ 70 DTCA). Weak pervasive chlorite alteration observed along slip surfaces and as medium grained chlorite eyes/blotches which define foliation. Trace vein associated py/-cpy with localized trace sph. Very minor mm-scale qtz-carb veining with two primary sets observed, a shallower set ranging 5-20 DTCA and a steeper set ranging from 40-70 DTCA; 1cm qtz-carb vein (17.72m @ 60 DTCA); 1cm qtz-carb vein with trace blebby py/-sph (18.8m @ 10 DTCA; XRF: 0.11% Zn); two cross-cutting thin qtz-carb veinlets with trace sph/+g (21.16m @ 20 DTCA; XRF: 1.59% Zn, 0.14% Pb); 8mm qtz-carb vein with trace blebby py-cpy/-sph (24.03m @ 70 DTCA; XRF: 0.52% Zn, 0.37% Cu). Around 25m unit begins to appear more foliated which may be a result of a more sedimentary component resulting in an interbedded contact. Lower contact is fabric parallel at 70 DTCA.	weakly foliated	chlorite alteration	wk mod					py	0.1	sp	0.1	vqc	0.1				
MCD22060	27.78	36.43	8.65	Sct chert	M	Grey	vfg	bedded/b edding general	Cherty Metasediments: light to medium grey with pale cream to reddish purple beds/laminae, aphanitic to very fine grained and thinly bedded/laminated with bedding remaining relatively steep (70-90 DTCA) save from 31-32m where bedding shallows to 35 DTCA. Unit is non-magnetic, hard, very siliceous and competent becoming blocky around 35m with a broken up interval at 35-25m. Weak intermittent pale yellowish green sericite alteration observed in localized beds/laminae with moderate pervasive sericite alteration associated with the broken up interval from 34.4-35.5m. Significant fracture controlled and cm-scale bands of blebby fabric parallel to semi-massive py/+cpy/-ga (3-5%) with >10cm intervals of semi-massive sulphides between 29-30m. Very little veining observed but one 3cm pale green altered and vuggy qtz-vein (35.10m @ 70 DTCA) with trace sph. At 36m unit transitions into graphitic argillites with significant py/+cpy (1-2%) before a faulted lower contact. Fault: small fault where ~40cm of core is lost. Fault consists of very broken up and rubbly argillic fragments with significant fault gouge/mud observed. Significant py observed in rubbly fragments (~1%). No confident orientation of fault can be determined.	laminated	sericite alteration	wk mod	argillic alteration	wk			py	10	cp	0.1	vqz	0.1				
MCD22060	36.43	36.7	0.28	Fault	D	Grey Black	vfgfg	blocky		broken	argillic alteration	mod			py	1										
MCD22060	36.7	55.12	18.42	Sct chert	M	Purple Grey	vfgfg	bedded/b edding general	Cherty Metasediments: unit is medium grey with pink to purple hued beds/laminae, aphanitic to very fine grained and thinly bedded/laminated (70-80 DTCA). Significant argillic component in first 1.5m of unit which is dark grey to black, aphanitic with significant fabric parallel py/+cpy (1-3%). Unit is non-magnetic, hard and very siliceous. Minor fracture controlled py/+ga/+aspy (i.e. 38.4m; XRF: 2.28% Pb, 0.22% As) with localized beds/laminae with minor fine grained subhedral py/+aspy. Unit is very blocky and broken up from 40-46m where almost 1m of core is lost (fault?), at upper portion of this interval cherty metasediments are pervasively altered a pink red colour and are heavily fractured/brecciated with significant fracture controlled sulphides (py-ga-sph-aspy/-cpy) observed throughout this broken interval (i.e. 40.14m; XRF: 3.16% Zn, 3.27% Pb; 42.25m; XRF: 19.05% Zn, 2.82% Pb; 43.28m; 7.30% Zn, 0.13% Pb); semi-massive sulphides (py/-cpy) from 46.6-47 have a brecciated appearance and resemble a cataclaste with significant discontinuous qtz-blebs and black altered fragments. 2cm qtz-vein observed before broken rubbly interval with minor blebby cpy/+aspy/-ga (39.3m @ 25 DTCA; XRF: 4.38% Cu, 0.35% As, 0.15% Pb); several thin 1-3mm qtz-veins in lower section of unit with localized blebby sulphides (py/+cpy); 2cm vuggy and pink altered qtz-vein with trace py (50.4m @ 30 DTCA); possible thick fabric parallel qtz-vein from 47.41-48.11m with increased fracture controlled py/+cpy/+aspy (1-3%), internal fabric/textures in possible vein give the impression this may be silica enrichment rather than a vein. Towards lower contact unit appears to begin having a minor mafic volcanic component.	laminated	sericite alteration	v wk					py	5	sp	1	ga	0.1	vqz	0.1	vqc	0.1
MCD22060	55.12	60.3	5.18	Vvm mafic volcanic	D	Grey	vfg	foliated	Mafic Volcanics: dark grey, aphanitic to very fine grained and weakly foliated with short intervals of general component.	weakly foliated	chlorite alteration	v wk	sericite	wk	py	0.1			vqc	0.1						
MCD22060	60.3	74.58	14.28	Sct chert	M	Purple	vfgfg	bedded/b edding general	Cherty Metasediments: light to medium grey often with a purplish hue and locally with pervasive sericite alteration.	laminated	sericite	wk mod	potassic	wk	py	3	as	0.1	cp	0.1	vqz	0.1				
MCD22060	74.58	90	15.42	Vvm mafic volcanic Oou overburden general	D	Grey	vfg	foliated	Mafic Volcanics: dark grey, aphanitic to very fine grained and massive to very weakly foliated (60-70 DTCA).	weakly foliated	sericite alteration	v wk	potassic	wk mod	co	0.1	py	0.1		vqz	2					
MCD22061	0	3.14	3.14																							
MCD22061	3.14	47.1	43.96	Ggb gabbro	D	Grey	mvg	massive	Coarse Grained Flow (Mafic Volcanics/Subvolcanics): medium to dark grey, medium to coarse grained and massive looking as unit appears to be fairly homogeneous and resembles one massive unit/flow, however unit is very weakly foliated (50-60 DTCA) and is more strongly foliated locally appearing to be associated with veining (i.e. 12-13m; 24.55-25.4m). Unit is non-magnetic, hard and competent throughout. Weak to moderate pervasive chlorite alteration observed as medium to coarse grained chlorite eyes/blotches and along vein margins, sporadic and localized weak but pervasive sericite alteration observed as very fine grained white specks and trace localized epidote alteration associated with veins (i.e. 26.4m). Trace vein associated sulphides throughout, predominantly fine grained blebby py-cpy with localized sph-mo (i.e. 11.47m; XRF: 0.37% Mo; 38.84m; XRF: 0.72% Zn). Consistent but minor mm- to cm-scale qtz-vein throughout which appear to have two distinct orientations which are often altered a pale green colour (ser/ep?); fabric parallel set ranging from 50-60 DTCA; shallower set with very thin mm-scale (1-2mm) to cm-scale qtz-veins ranging from 10-30 DTCA; 1cm calcite vein at 44.9m (60 DTCA). Lower contact is sharp 40 DTCA.	weakly foliated	chlorite alteration	wk mod	sericite alteration	v wk	epidote alteration	v wk	cp	0.1	sp	0.1	mo	0.1	vqz	1	vcb	0.1

MCD22061	47.1	47.51	0.41	Gfu felsic rock (undifferentiated)	L	Pink	vfg	vein/veining	Felsic Dyke: light pink feldspar (k-spar/alternated plag/Qtz?) with large medium grey lathes of Qtz, felsic dyke resembles a pegmatite. Dyke is non-magnetic, hard and competent with minor chlorite alteration along vein margins and very trace fine grained blebby py/-cpx. Upper contact is delineated by a 1cm calcite vein with significant chl and has an orientation of 40 DTCA while the sharp lower contact is at 20 DTCA.	chlorite alteration	v	wk	cp	0.1	py	0.1	vcb	0.1							
MCD22061	47.51	82.25	34.74	Ggb gabbro	D	Grey	mcc	massive	Coarse Grained Flow (Mafic Volcanics/Subvolcanics): medium to dark grey, medium to coarse grained and massive looking as unit appears to be fairly homogeneous and resembles one massive unit/flow, however unit is very weakly foliated (50-60 DTCA) and is more strongly foliated locally appearing to be associated with veining (i.e. ~48m, 70.5-71.5m). Unit is non-magnetic, hard and competent throughout. Weak to moderate pervasive chlorite alteration observed as medium to coarse grained chlorite eyes/blotches and along vein margins localized pervasive possible sericite alteration giving intervals a lighter grey to white colour (i.e. 60-61m, 66.5-68.5m). localized red orange alteration of Qtz-veins (i.e. 79.7m). Trace vein associated sulphides throughout predominantly observed as fine grained subhedral to blebby py-cpx with localized sph associated with a 5cm light pink felsic dykelet (i.e. 57.87m @ 40 DTCA). Minor cm-scale Qtz-veins locally with a pale green alteration (ser?) observed with two distinct orientations; cm-scale fabric parallel Qtz-veins locally with trace amounts of calcite and often with a noticeable increase in the adjacent wall rocks foliation intensity (i.e. 61.22m @ 50 DTCA; 70.91m @ 45 DTCA); shallow set of ~1cm Qtz veins with trace py/-cpx ranging from 15-30 DTCA (i.e. 51.15m, 51.35m, 62.85m, 65.15m); 8cm pale green Qtz vein (54.12m @ 30 DTCA); 3-4cm pale green altered Qtz-vein with a diffuse texture and significant very fine grained disseminated py (i.e. 61.45m @ 15 DTCA). Short 20cm interval of significant Qtz-veining (at least 6 veins) several are brecciated while most have a pale green alteration at 57.6m followed by an 8 cm light pink felsic dykelet with trace fine grained subhedral py and sph (57.91 @ 40 DTCA); 2-3cm Qtz-vein with orange red alteration (Fe/K?) which is being cross-cut by a fracture displacing the vein slightly. Lower contact appears gradational as the unit becomes finer grained and loses the coarse grained chlorite spotting between 82-83m paired with a better defined foliation giving the unit a more banded/laminated appearance.	weakly foliated	chlorite alteration	wk mod	sericite alteration	v	wk	cp	0.1	py	0.1	sp	0.1	vqz	1	vqc	0.1
MCD22061	82.25	95.79	13.54	Vvm mafic volcanic	M	Grey	vfgfg	foliated	Mafic Volcanics: medium grey, very fine to fine grained and moderately foliated, foliation remains consistent ~70 DTCA only steepening to ~80 DTCA towards upper contact from 85-87m. Unit is non-magnetic, hard and competent with a slight blocky interval from 91-92.5m. Weak pervasive chlorite alteration observed locally as defining the foliation and along slip surfaces, minor sporadic sericite alteration most commonly associated with veining. Trace vein associated and fracture controlled py with localized fabric parallel blebby py (i.e. 90.36m) with very trace localized vein associated sph (i.e. 85.56m @ 50 DTCA; XRF: 0.75% Zn). Minor mm- to cm-scale Qtz to Qtz-carb veins throughout predominantly cross-cutting the fabric at 20-40 DTCA in upper portion of unit as they appear to steepen to 50-70 DTCA towards lower contact where the veinlets often exhibit pinkish red staining (Fe/K?); 2cm calcite vein (87.91m @ 90 DTCA) followed by dark black cm-scale graphitic zone bounded by a folded and faulted 1 cm calcite vein (88.01m @ 40 DTCA); 10cm Qtz-vein with trace cpx (88.7m @ 45 DTCA) followed by 10cm zone of strong veining perpendicular to core axis with trace py-sph; 3cm barren Qtz-vein at 70 DTCA (91.8m). Small pinkish red felsic vein with trace very fine grained py dykelet 84.85 @ 70 DTCA and a 35cm pinkish orange felsic dyke with a 30 DTCA upper contact and lower contact oriented at 40 DTCA. Lower contact may be slightly interbedded with the underlying metasediments but remains fabric parallel at 80 DTCA.	foliated	chlorite alteration	wk mod	sericite alteration	v	wk	py	0.1	sp	0.1	cp	0.1	vqz	1	vcb	0.1
MCD22061	95.79	101.34	5.55	Sgw greywacke	M	Grey	fg	bedded/bedding general	Greywackes with Argillite Interbeds: medium grey, fine grained and thinly laminated to bedded 60-80 DTCA with minor dark grey to black, aphanitic to very fine grained argillites (i.e. 99-99.4m, 100.2-100.5m). Unit is non-magnetic, hard and competent with a slightly blocky interval from 98.3-100.46m. Weak localized sericite/-epidote alteration observed predominantly in veins but also in adjacent wall rock, very weak localized chlorite alteration associated with veining and along slip surfaces, localized pinkish red alteration of Qtz to Qtz-carb veinlets (i.e. 98.46m). Minor py throughout predominantly observed as vein associated and fracture controlled with a 10cm band of semi-massive py in an argillite bed at 100.41m and as finely disseminated py from 100.65m to LC. Two cm-scale (2-4cm) calcite veins with varying orientations with significant chlorite and sericite alteration and minor blebby py (96.52m @ 20 DTCA; 96.75m @ 60 DTCA); 4cm intervals of brecciated mm-scale calcite veinlets at 75 DTCA with significant red staining (Fe/K?) at 98.47m. Lower contact is sharp @ 85 DTCA.	foliated	sericite alteration	wk	chlorite alteration	wk	py	1	vcb	0.1							
MCD22061	101.34	112.15	10.81	Sct chert	L	Grey	vfgfg	bedded/bedding general	Cherty Metasediments with Greywacke Interbeds: light to medium grey with localized pinkish purple hues (cherts), aphanitic to fine grained and thinly laminated to bedded cherty metasediments (60-70 DTCA) with several meter-scale intervals of more deformed/convoluted metasediments (i.e. 102.4-105.1m, 108-110m) with evidence of extensional deformation/shearing (i.e. boudinage @ 104.24m), these more deformed intervals appear to be less cherty and more closely resemble greywackes (possible altered volcanics?). Weak to moderate pervasive chlorite alteration which is stronger in the more deformed intervals observed along vein margins and as medium to coarse grained sheared spots/blotches, weak intermittent sericite alteration associated with veining and localized mm-scale beds/laminae. Trace py throughout increasing slightly towards lower contact, py is predominantly observed associated with veining or fracture controlled, can be seen rimming the boudinaged structures (i.e. 104.22m) with py increasing downhole where it is also observed as finely disseminated subhedral to blebby and as fabric parallel blebs, localized blebby cpx-sph also observed between 108m and lower contact (i.e. 110.76m). Minor mm-scale Qtz to Qtz-carb veining throughout, appear fabric parallel and deformed in the convoluted greywacke intervals and are otherwise sporadic with varying orientations. Unit appears to transition into a more greywacke dominated unit towards lower contact which is sharp @ 15 DTCA.	foliated	chlorite alteration	wk mod	sericite alteration	wk	py	0.1	cp	0.1	sp	0.1	vqc	0.1	vqz	0.1	
MCD22061	112.15	112.3	0.15	Cobalt Vein	L	White	vfg	vein/veining	Cobalt-Bearing Quartz Vein: 2cm white Qtz-vein (15 DTCA) which appears to undulate slightly. Vein appears barren save for a 1cm thick off shooting Qtz-vein which has medium to coarse grained blebby cobaltite (XRF: 1.30% Co, 1.82% As). Vein appears unaltered and no significant alteration is observed in the adjacent wall rock. Lower contact is sharp @ 15 DTCA.	vein/veining	co	0.1													

MCD22061	112.3	119.35	7.05	Sgw greywacke	M	Grey	fg	bedded/b edding general	<p>Greywackes: medium grey with some darker grey to black intervals (i.e. 117-118m) and some lighter grey intervals (i.e. 118.12-118.32m, 118.77-119.16m), fine grained and thinly laminated to bedded (60-70 DTCA). Unit is non-magnetic, hard and competent with several minor blocky intervals (i.e. 114.6-115m, ~117m). Weak pervasive chlorite alteration which increases in the darker intervals and locally observed as medium to coarse grained foliated/sheared spots (i.e. 118.4m), minor sporadic sericite alteration associated with veining, patchy pervasive carbonate alteration in lighter grey intervals and proximal to calcite veinlets (i.e. 119m). Trace vein associated and fracture controlled sulphides throughout predominantly py/-cpy with trace localized sph and Bi (i.e. 113.23m; XRF: 0.18% Zn; 115.4m: XRF: 0.17% Bi) with a localized asp-rich bed/laminae at 116.31m. Very minor veining through predominantly observed as mm-scale fabric parallel veinlets with several pale green altered qtz-veins (ser/ep?) with trace fine grained py/-cpy (i.e. 117.63m @ 40 DTCA); mm-scale undulating qtz-carb veinlet at upper contact with the same orientation as the cobalt-bearing vein above with significant blebby py and trace cpy-sph (112.49m @ 15 DTCA). Lower contact is slightly broken but appears sharp @ 40 DTCA.</p>	foliated	chlorite alteration	sericite alteration	carbonate alteration	wk	py	1	cp	0.1	as	0.1	vqc	0.1		
MCD22061	119.35	130.87	11.52	Sct chert	M	Grey	vfgfg	bedded/b edding general	<p>Cherty Metasediments with Greywacke Interbeds: plight to medium grey with varying shades of brownish red (i.e. 122m) to pinkish purple (i.e. 124.4m), aphanitic to fine grained and well laminated to thinly bedded ranging from 40-50 DTCA at upper contact a gradationally steepening to 60-70 DTCA by around 123m. Unit is non-magnetic, hard but with a meter-scale blocky to broken brittle zone/fault (i.e. 120-123m) and a short rubby section at 129.1m which may indicate a small fault. Weak pervasive chlorite alteration observed along slip surfaces and in localized darker grey intervals which appear more banded/laminated with more deformation (i.e. 124.5-125m), significant silica alteration (cherts) throughout and intermittent minor pervasive sericite alteration associated with veins and observed as very fine grained white specs (i.e. 128-129m). Minor vein associated and fracture controlled py often observed as very fine grained disseminated py in localized veins (i.e. 2cm qtz-vein at 120.12m @ 60 DTCA) but predominantly as fine to medium grained blebby py locally as fabric parallel blebby to semi-massive py (i.e. 122.23m), localized aspy associated with localized qtz-veins or as mm-scale fabric parallel subhedral to blebby aspy-rich layers, associated with chloritic fractures or as very fine grained, disseminated and fabric parallel acicular grains increasing to 1-2% in short intervals (i.e. 124.54-125m; XRF: 5.22 As) almost becoming semi-massive at lower contact (XRF: 5.86% As). Minor veining throughout with several fabric parallel qtz-veins often altered to a pale green colour (ser?) (i.e. 127.04m @ 65 DTCA), numerous mm-scale veinlets/stringers at steep angles but cross-cutting bedding in lower portion of unit; 1cm brecciated calcite vein following a possible small fault (129.14m @ 60 DTCA); 1cm calcite-chlorite veinlet/fracture fill (130m @ 40 DTCA). Lower contact is sharp and delineated by a mm-scale calcite-chlorite veinlet at 40 DTCA.</p>	foliated	chlorite alteration	sericite alteration	silica alteration	wk	py	0.1	as	0.1	vqz	0.1	vcb	0.1		
MCD22061	130.87	139.08	8.22	Sct chert	L	Grey	vfg	bedded/b edding general	<p>Cherts (Sulphide Zone): light grey to white, aphanitic appearing massive but with a weakly defined fabric (bedding/foliation?) which ranges between 50-70 DTCA. Unit is non-magnetic, hard and very siliceous but consistently blocky to broken throughout (brittle zone). Moderate to strong pervasive silica alteration (silica flooding?) as unit looks like a large diffuse qtz-vein, very minor localized chlorite alteration observed along slip surfaces and infilling fractures, significant calcite alteration/veining. Significant sulphides throughout (3-5% predominantly as steeply oriented bands of blebby py/-cpy to semi-massive bands (60-80 DTCA) which appear to be replacing calcite veins or are strongly calcite and chlorite altered, trace fine to medium anhedral blebs of py with localized bands of very finely disseminated py-cpy-apsy (i.e. 135.7m; XRF: 5% As, 0.67% Cu) with a sub-meter scale brownish red very fine grained interval of very fine grained to semi-massive aspy (1-3%) from 134.5-135.1m. Significant calcite veining throughout (possibly alteration) which has been entirely replaced by sulphides; 1cm undulating qtz-vein (136.36m @ 15 DTCA) with minor py and trace sph-ga (XRF: 0.3% Zn, 0.22% Pb). Lower contact is broken up and rubby (faulted?) with a possible orientation of 60 DTCA.</p>	foliated	silica alteration	carbonate alteration	chlorite alteration	mod str	py	3	as	1	cp	0.1	vcb	2	vqz	0.1
MCD22061	139.08	147.53	8.45	Sct chert	M	Grey Purple	vfgfg	bedded/b edding general	<p>Cherty Metasediments: medium grey with brownish red to purply hues, aphanitic to fine grained and thinly laminated to bedded ranging from 60-70 DTCA at upper contact but flattening to ~15 DTCA at 143 before sharply steepening again to 50 DTCA at 144.3m, this may be a result of soft sediment deformation or possibly evidence of a fold. Unit is non-magnetic, hard and siliceous but slightly blocky throughout with a broken interval ~144m. Very weak localized chlorite alteration observed along slip surfaces and fracture filling with weak localized pervasive carbonate alteration associated with small calcite veinlets. Significant vein associated and fracture controlled py throughout with localized beds/layers exhibiting medium to coarse grained blebby py as well as finely disseminated py (~1%), minor aspy throughout unit predominantly seen as very fine grained (pin prick) disseminated aspy up to 1% in localized layers where it also appears to be associated with minor sph-ga (i.e. 144.9m; XRF: 0.37% Zn, 0.11% Pb). Significant mm-scale calcite veinlets throughout often occurring in small sets of 2-5 parallel stringers at various orientations with an interval of significant sporadic and randomly oriented calcite stringers which give the unit a fractured/brecciated appearance, this interval appears to be associated with the soft sediment deformation/folding (143-145.3m); couple cm-scale fabric parallel qtz-veins with fine grained subhedral to blebby; 5cm qtz-vein with minor blebby py associated with cross-cutting fractures with minor blebby aspy along vein margins (141.1m @ 70 DTCA). Lower contact is sharp @ 40 DTCA.</p>	foliated	carbonate alteration	chlorite alteration		wk	py	1	as	1		vcb	1	vqz	0.1	
MCD22061	147.53	148.05	0.53	Coz Cobalt Zone	M	Grey	vfgfg	bedded/b edding general	<p>Cobalt Zone in Cherty Metasediments: short 50cm interval of light to medium grey to buff and reddish hue cherty metasediments. Upper contact is delineated by a chloritic slip with significant aspy and anomalous Ag (XRF: 390g/t Ag), the first 10cm contain 1-3% finely disseminated aspy observed as fine grained acicular crystals as well as fine grained blebby grains, anomalous Co appears to be associated with localized aspy-rich layers/beds with trace ga (i.e. 147.67m; XRF: 9.5% As, 0.13% Co, 0.17% Pb; 148m; XRF: 2.3% As, 0.02% Co). Unit is cut by 1cm anastomosing qtz-carb veinlet sub-parallel to core axis with significant chlorite and coarse grained blebby py. Lower contact is fabric parallel at 55 DTCA.</p>	foliated					co	0.1	as	1	py	0.1	vqc	0.1		
MCD22061	148.05	153.94	5.89	Sct chert	M	Grey Purple	vfgfg	bedded/b edding general	<p>Cherty Metasediments: medium grey with brownish red to purply hues, aphanitic to fine grained and thinly laminated to bedded ranging from 60-70 DTCA. Unit is non-magnetic, hard, siliceous and competent becoming blocky towards lower contact ~152.5m. Very weak localized chlorite alteration observed along slip surfaces with weak patchy but pervasive carbonate alteration proximal to calcite veinlets. Trace vein associated and fracture controlled py throughout with a short interval (149-149.5m) with a couple cm-scale bands of blebby to semi-massive py; localized fracture controlled and vein associated aspy (i.e. 150.23m; XRF: 4.5% As) locally with anomalous Co (i.e. 150.41m; XRF: 1.78% As, 0.01% Co), minor sph observed in the blocky interval towards lower contact associated with chlorite-calcite veinlets (i.e. 153.47m; XRF: 0.51% Zn). Minor sporadic and randomly oriented mm-scale calcite stringers/veinlets which increase in magnitude towards lower contact (~151.8m) and appear most abundant in the blocky to broken section (possible tension or shear fractures?). Lower contact is sharp @ 50 DTCA.</p>	foliated	carbonate alteration	chlorite alteration		wk	py	0.1	as	0.1	co	0.1	vcb	0.1		

MCD22061	153.94	154.23	0.29	Coz Cobalt Zone	L	White Grey	fg	vein/veining	Cobalt-Bearing Quartz Cataclastic Zone: unit is centered around a 10cm brecciated quartz-vein (cataclastic) with significant Co and anomalous Ni, Pb and Ag (154.06m; XRF: 2.33% Co, 0.31% Ni, 0.24% Pb with 34g/t Ag). The cobaltite is medium grained blebby and observed in the qtz along chloritized wall rock fragments. The cataclastic zone has an upper contact at 30 DTCA but with a lower contact ~50 DTCA. The 10cm between the cataclastic and the upper contact is heavily brecciated by sph-bearing calcite veinlets while the 10cm after the cataclastic appear slightly altered and brecciated but with no visible veining. The lower contact is delineated by a small slip/fault with ~1cm of fault gouge/mud at 60 DTCA.	vein/veining	chlorite alteration	wk	co	1	sv	0.1	ga	0.1				
MCD22061	154.23	163.22	9.00	Sgw greywacke	L	Grey	fg	bedded/b edding general	Greywackes: light to medium grey, fine grained and thinly laminated to bedded (50-60 DTCA). Unit is non-magnetic, hard and competent but slightly blocky throughout. Minor orange red alteration at upper contact likely associated with the brecciated unit above or the small slip and minor light grey to white alteration observed throughout sometimes creating banding of foliated spots (sericite?). Significant py throughout observed as vein associated and fracture controlled as well as finely euh- to subhedral disseminated py, ~1% in first 4m and only in localized beds/layers for the remainder of the unit; minor localized aspy predominantly fracture controlled but also observed disseminated in host rock proximal to small veinlets (i.e. 157.48m); trace blebby fracture controlled cpy. Very minor mm-scale veinlets throughout predominantly qtz-rich. Around 162.15m unit appears to become thinly bedded with dark grey layers while the bedding increases to ~8 DTCA, may indicate a stronger siltstone component reflecting and interbedded contact. Contact is fabric parallel at 85 DTCA.	foliated	sericite alteration	wk	py	1	as	0.1	cp	0.1	vqz	0.1		
MCD22061	163.22	192.58	29.36	Sct chert	M	Grey Purple	vfgfg	bedded/b edding general	Cherty Metasediments: medium grey often with a brownish red to purple hue with several dark grey to black interbeds (possible argillites), aphanitic to fine grained and thinly laminated to bedded. Unit is non-magnetic, hard, siliceous and competent with a couple blocky to broken intervals (i.e. 166.5-167m, ~183m). Minor localized sericite alteration observed as very fine grained white specks and several intervals with a light whitish grey banding (carb/ser?) (i.e. 161-174.25). Significant py throughout observed as vein associated and fracture controlled and locally as finely disseminated to fabric parallel py often associated with minor aspy (i.e. 179-180m), minor aspy-rich intervals (up to ~1%) that appear to be associated with veins and fractures (i.e. 165.3-165.7m, 179-179.5m); from ~185m to lower contact significant sph-py+/-aspy+/-ga is observed with roughly 2-3% sulphides (i.e. 185.14m; XRF: 5.48% Zn, 0.11% Pb; 186.1m; XRF: 1.85% Pb). Very little veining throughout unit with several mm- to cm-scale qtz-carb veinlets locally brecciated (i.e. 165.82m @ 50 DTCA); 2cm qtz-vein in blocky to broken interval with significant blebby py (165.7m @ 20 DTCA). Lower contact appears to be sharp @ 70 DTCA and is delineated by a 1cm calcite veinlet.	foliated	sericite alteration	wk	py	1	sp	1	as	0.1	vqz	0.1	vqc	0.1
MCD22061	192.58	201	8.42	Gmu mafic rock (undifferentiated) Oou overburden	D	Grey	fmg	massive	Mafic Intrusive: dark grey with slight greenish hue, fine to medium grained, massive and equigranular. At upper contact unit is foliated for ~1m, the foliation grades into banded alteration of the same orientation (60 DTCA) before grading into a massive and homogeneous mafic intrusive. Unit is non-magnetic, hard and competent with a couple blocky to broken intervals (i.e. 95.5-96m). Minor pervasive chlorite and biotite alteration. Trace vein associated py with localized trace vein associated sph+/-ga (i.e. 195.9m @ 40 DTCA; XRF: 0.35% Pb, 0.21% Zn). Minor qtz-carb veinlets throughout observed at various orientations all with trace amounts of ga-sph; veins at 40 DTCA (i.e. 195.93m; XRF: 0.35% Pb, 0.21% Zn); several veins subparallel to core axis with trace sph (i.e. 194.1m @ 5 DTCA; XRF: 0.25% Zn); veins at 20 DTCA (i.e. 198.46m; 1.4% Pb, 0.17% Zn). EOH	weakly foliated	chlorite alteration	wk	biotite alteration	v wk	sp	0.1	ga	0.1	py	0.1	vqc	1
MCD22062	0	2.68	2.68	general																		
MCD22062	2.68	10.04	7.36	Ggb gabbro	D	Grey	mfg	massive	Coarse Grained Flow (Mafic Volcanics/Subvolcanics): medium to dark grey, medium to coarse grained with a weakly defined foliation (40-50 DTCA). Unit is non-magnetic, hard and competent with a blocky to broken interval near surface (6-8m) with a brown rusty colour coating blocky/fragments, possible near surface fault. Moderate pervasive chlorite alteration observed as coarse grained spots/blotches, weak pervasive sericite alteration in upper portion of unit observed as fine grained white specks with a pervasive lighter grey alteration of the host rock straddling 7m which may be related to a 2cm qtz-carb vein (7.14m @ 70 DTCA). Short half meter interval of trace fine grained disseminated py from 9.5m to 1.0m. Lower contact is sharp @ 50 DTCA.	weakly foliated	chlorite alteration	mod	sericite alteration	v wk	py	0.1			vqc	0.1		
MCD22062	10.04	39.72	29.68	Ggb gabbro	D	Grey	mg	massive	Coarse Grained Flow (Fresh): medium to dark grey, medium grained, massive and equigranular but with a very weakly defined foliation (40-50 DTCA) with a meter interval from 32-33m where unit has a better developed foliation at 25 DTCA. Unit is non-magnetic, hard and competent throughout. Very weak pervasive chlorite alteration, localized weak sericite alteration and localized pervasive pale yellow green epidote +/- sericite alteration (i.e. 15.55m, 16.6-17.1m), the latter with a minor cpy association (XRF: 0.83% Cu). Trace vein associated cpy and sph which is observed as very fine grained sulphides along vein margins (i.e. 32.3m @ 40 DTCA; XRF: 0.26% Cu; 34.87m @ 40 DTCA; XRF: 0.12% Zn). Very minor qtz-carb veining throughout with several 1-2cm qtz to qtz carb veinlets with trace sulphides (mentioned above) and a 3cm qtz-carb vein at 38.03m (50 DTCA). throughout unit there are several chloritized fractures and sub-mm-scale veinlets along with several felsic segregations which appear to be plagioclase alteration halos along fractures (i.e. 36.7m). Lower contact is sharp 50 DTCA.	weakly foliated	chlorite alteration	v wk	sericite alteration	v wk	epidote alteration	wk	cp	0.1	sp	0.1	vqc	0.1

MCD22062	39.72	100.14	60.42	Ggb gabbro	M	Grey	mcg	massive	Coarse Grained Flow (Mafic Volcanics/Subvolcanics): medium to dark grey, medium to coarse grained, appearing massive but with a weakly defined foliation which is defined by coarse grained chlorite spots/blotches ranging from 30-50 DTCA. Unit is non-magnetic, hard and competent becoming blocky towards lower contact ~95m. Moderate to strong pervasive chlorite alteration observed as coarse grained spotting/blotches and along veins margins and slip surfaces, weak localized pervasive carbonate alteration proximal to calcite veinlets (i.e. 49.54m), very minor and localized pinkish red staining (Fe/K?) along vein margins (i.e. 60.5m, 87.21m). Very trace vein associated sulphides (py-cpy-sph-ga) although the veins throughout the unit are predominantly barren. Minor mm- to cm-scale qtz-carb and calcite veinlets throughout with two major orientations observed 40-60 DTCA and a shallower set ranging from 5-20 DTCA; 2cm foliated/sheared qtz vein with significant black chloritic seams (44.34m @ 20 DTCA); 1cm qtz-carb vein with minor fine grained disseminated cpy (49.69m @ 40 DTCA; XRF: 1.52% Cu); 5mm calcite veinlet with trace blebby ga (51.42m @ 50 DTCA; XRF: 0.34% Pb); 2cm foliated qtz-carb vein (57.27m @ 50 DTCA); 1.2cm qtz-carb vein with trace ga-py-sph and red staining along vein margins with multiple off-shooting, mm-scale calcite veinlets which brecciate the host rock (60.7m @ 5 DTCA; XRF: 0.24% Pb); 2-3 cm anastomosing qtz-carb vein at very low angle (subparallel to 5 DTCA) which stretches down the core from 61.1-63m with very trace sulphides (cpy-ga-sph; XRF: 1.12% Zn, 0.12% Pb); 10cm pinkish orange felsic dykelet (76.02m @ 50 DTCA); 4cm slightly brecciated and pink orange stained qtz-carb vein (79.62m @ 70 DTCA); 1cm qtz-carb vein (80.3m @ 20 DTCA); 1cm qtz-carb vein with reddish orange stained vein margins (87.22m @ 50 DTCA); 2cm qtz-carb vein with minor red staining (88.06m @ 25 DTCA); 3cm barren qtz vein (94.87m @ 60 DTCA); 20cm light pink fine grained felsic dyke with very fine grained sparkly crystals (sericite/muscovite?) (98.18m @ 60 DTCA). Lower contact was arbitrarily assigned once core became blocky and broken ~ 100.12m.	weakly foliated	chlorite alteration	mod str	sericite alteration	v wk	hematite alteration	v wk	cp	0.1	sp	0.1	ga	0.1	vqc	1	vqc	0.1
MCD22062	100.14	108	7.86	Ggb gabbro	D	Grey	mg	blocky	Coarse Grained Flow (Brittle Zone/Faulted): blocky and broken brittle zone of the coarse grained flow described above although the coarse grained texture appears to be overprinted by alteration. Significant veining throughout unit as it is cut/brecciated by cm-scale qtz to qtz-carb veins. Weak chlorite alteration observed along slip surfaces with very weak localized carbonate alteration as very fine thin calcite stringers/fracture fillings are also observed, minor red and pink staining of along vein margin of qtz vein (106.55m). No sulphides observed. Veining throughout unit is sporadic and randomly oriented with vein orientations ranging from 10 to 60 DTCA; 2cm qtz-vein (103.78m @ 40 DTCA); 3cm qtz-vein (104m @ 40 DTCA); 5cm cluster of three 2cm qtz-veins (60 DTCA) with multiple mm-scale off shooting veins at 104.15m; 1cm undulating qtz-vein (104.95m @ 20 DTCA); 5cm qtz-vein (105.55m @ 40 DTCA); 2cm brecciated qtz-vein (106.1m @ 60 DTCA); 5cm qtz-carb vein with a 1cm parallel vein or altered vein margin which is brecciated and staining pink and red (106.55m @ 20 DTCA) 2cm qtz-carb vein (107.76m @ 10 DTCA). Lower contact arbitrarily assigned at 108m where the core becomes competent again.	broken	chlorite alteration	v wk	carbonate alteration	v wk	hematite alteration	v wk						vqc	10	vqc	0.1	
MCD22062	108	122.8	14.80	Vvm mafic volcanic	D	Grey	vfgfg	foliated	Mafic Volcanics: dark grey, aphanitic to fine grained with a moderately defined foliation/bedding (30-50 DTCA). Unit is non-magnetic, hard and competent with several blocky to broken intervals (i.e. 114.63m, 120m to LC). At the upper contact the unit appears to resemble the coarse grained flow with coarse grained chlorite spots but begins to become more strongly foliated after ~1m until it is very well foliated by 110m which may represent some intermixing between the two flows. Weak pervasive chlorite alteration seen defining the foliation and along slip surfaces, weak localized red staining (Fe/K?) associated with veining throughout and very minor carbonate alteration proximal to calcite stringers/veinlets. Very trace vein associated py. Minor cross-cutting mm-scale calcite stringers/veinlets throughout with only a couple cm-scale calcite veinlets often stained red, veinlets increasing in magnetite down hole (119.5-121.5m); 1cm calcite vein with minor red staining (110.9m @ 50 DTCA); 5cm band of calcite veining (119.74m @ 40-60 DTCA); 4cm calcite vein with minor red alteration (121.18m @ 45 DTCA). Lower contact is sharp @ 30 DTCA.	foliated	chlorite alteration	wk	carbonate alteration	v wk	hematite alteration	wk	py	0.1				vcb	1	vqc	0.1	
MCD22062	122.8	127.32	4.52	Sgw greywacke	M	Grey	fg	bedded/b edding general	Greywackes: light to medium grey with a darker grey interbed of mafic volcanics (123.84-124.66m), fine grained and bedded with bedding between 30-40 DTCA. Unit is non-magnetic, hard but quite blocky and becoming more broken toward lower contact (~125.54m), very weak chlorite alteration observed along slip surfaces with localized weak pervasive carbonate alteration associated with calcite veining. Volcanic interbed is cut by a 6cm medium to coarse grained, red orange felsic dyke with trace blebby py. Localized blebby vein associated py-/cpy associated with a 1-2cm low angle qtz-rich qtz-carb vein (125.4m @ 10 DTCA) and anomalous Co associated with a 1-2cm parallel qtz-vein (125.85m @ 15 DTCA; XRF: 0.01% Co); minor sporadic mm-scale calcite to qtz-carb stringers/veinlets throughout unit. Lower contact is broken up at 127.32m.	foliated	chlorite alteration	v wk	carbonate alteration	wk			co	0.1	py	0.1	vqc	1	vcb	0.1		
MCD22062	127.32	135.44	8.12	Sct chert	M	Red Grey	vfg	bedded/b edding general	Cherty Metasediments: medium grey with faint reddish hues, aphanitic to very fine grained and thinly laminated to bedded (50-60 DTCA). Unit is non-magnetic, hard and siliceous but blocky to broken throughout. Possible localized Fe/K? alteration of localized of localized brecciated qtz-carb veinlets (i.e. 132m, 132.66m). Very trace vein associated and fracture controlled py save for the first meter of unit where trace to 1% fracture controlled py is observed, localized sph-ga associated with red altered brecciated qtz-carb veins (132.1m @ 20 DTCA; XRF: 0.22% Zn; 132.66m @ 25 DTCA; XRF: 0.64% Zn, 0.31% Pb). Minor veining throughout unit. Lower contact is broken and blocky delineated by a small fault with significant fault gouge/mud (35 DTCA), the fault itself is also delineated by a 2cm qtz-carb veinlet also at 35 DTCA.	foliated	hematite alteration	wk					py	0.1	sp	0.1	ga	0.1	vqc	0.1		
MCD22062	135.44	142.51	7.07	Sag argillite	D	Grey	vfgfg	interbedded	Argillites Interbedded with Cherty Metasediments: light to medium grey with purplish hued, aphanitic to fine grained cherty metasediments interbedded with dark grey to grey black, aphanitic to very fine grained argillites/siltstones. Bedding ranges from 15-40 DTCA with some convoluted intervals perhaps evidence of soft sediment deformation (i.e. 138.2m). Unit is predominantly non-magnetic with a moderate to strongly magnetic sulphide-rich argillic interval from 139-141m likely due to mgt and possible po along. Unit is hard and competent with a blocky to broken section at lower contact. Very weak and localized chlorite alteration observed along slip surfaces and weak pervasive carbonate alteration which appears to be associated with the magnetic interval and red staining of localized veins. Trace vein associated, fracture controlled py in the cherty metasediments increasing in the last two meters (137-138.85m) with very minor fabric parallel disseminated blebs of py, significant (3-5%) fabric parallel blebby and semi-massive sulphides (py-po-asp+/-cpy) in the argillic layer (138.85-141m). Around 141m the sulphides decrease in magnitude but the argillites become garnetiferous (~141.65m) which also coincides with shallow undulating bedding (5-15 DTCA). Very minor veining throughout with a couple 1cm qtz-carb veins ranging from 40-60 DTCA. Lower contact is sharp at 20 DTCA.	foliated	chlorite alteration	v wk	carbonate alteration	wk	hematite alteration	v wk	py	2	po	0.1	as	0.1	vqc	0.1		



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 This copy reported on
 17-MAR-2022
 Account: BMRPLLBW

CERTIFICATE SD22041348

Project: McAra Resource – MCD22-057
 P.O. No.: MCD22-057
 This report is for 98 samples of 1/2 Core submitted to our lab in Sudbury, ON, Canada on 17-FEB-2022.
 The following have access to data associated with this certificate:

PETER DOYLE FRANK PLOEGER	SEAN HICKS	KAJAL MAKWANA
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
Aq-OG62	Ore Grade Ag – Four Acid	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

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

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

Signature: 
 Saa Traxler, Director, North Vancouver Operations



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CERTIFICATE OF ANALYSIS SD22041348

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
20673		1.07	0.10	6.34	22.0	100	0.31	0.13	5.81	1.72	3.88	75.4	1030	0.57	163.5	8.15
20674		1.17	0.42	6.96	9.8	140	1.80	0.32	3.53	0.34	14.20	42.9	749	4.25	42.1	4.30
20675		0.49	<0.01	0.17	1.0	20	0.09	0.02	31.8	0.02	1.36	1.2	6	0.08	7.4	0.17
20676		1.46	0.06	7.29	5.9	1970	0.96	0.23	4.35	0.07	8.04	55.8	1270	1.59	7.1	7.72
20677		1.43	0.07	6.95	22.9	790	0.82	0.28	4.70	0.06	8.73	65.4	1170	1.01	17.1	7.03
20678		1.52	0.13	5.58	8.9	130	2.04	0.39	5.50	0.07	9.17	52.7	869	1.49	26.1	8.18
20679		0.88	1.35	7.52	59.3	460	0.95	13.05	2.66	0.26	3.44	14.7	76	1.07	673	1.27
20680		1.09	0.27	6.08	64.1	1920	0.86	1.47	4.50	0.67	4.14	13.5	61	1.08	25.6	1.21
20681		0.11	4.41	5.47	14.6	120	0.58	0.78	3.44	2.23	19.25	995	267	0.74	>10000	18.05
20682		2.29	0.13	7.24	35.2	150	1.53	0.66	3.92	0.04	15.95	67.0	642	0.27	829	5.78
20683		1.99	0.11	7.24	25.0	320	1.77	0.54	5.25	0.23	21.2	54.5	228	0.61	272	6.95
20684		2.29	0.10	6.05	54.5	110	3.24	0.56	6.10	0.15	17.70	55.9	553	2.61	241	8.28
20685		2.44	0.08	6.36	84.2	40	9.55	0.30	6.31	0.03	10.40	52.0	284	1.53	38.2	7.35
20686		2.29	0.10	6.26	51.6	40	3.80	0.36	7.28	0.42	8.34	47.6	347	3.65	20.5	7.69
20687		1.78	0.39	8.02	30.8	60	3.13	0.80	4.56	0.59	22.3	32.4	218	0.71	141.0	4.17
20688		1.90	0.35	7.37	52.6	110	1.26	0.92	5.89	0.14	12.40	44.4	182	0.39	107.5	7.74
20689		2.33	0.07	7.28	63.4	100	1.21	0.32	7.47	0.03	17.80	42.4	162	0.21	17.7	8.47
20690		1.56	0.17	7.31	170.5	110	1.32	0.37	4.24	0.04	43.1	56.9	195	0.23	238	6.00
20691		1.81	0.04	8.02	12.7	170	0.49	0.06	0.43	<0.02	14.60	4.7	12	0.13	76.0	0.47
20692		2.14	0.06	7.29	10.0	60	0.61	0.08	0.37	<0.02	22.0	4.9	14	0.10	30.7	0.66
20693		2.17	0.13	6.75	3.0	100	0.50	0.15	0.40	0.43	18.95	1.6	17	0.14	62.0	0.42
20694		2.27	1.26	7.21	16.0	140	0.65	1.87	0.67	11.00	19.85	4.2	13	0.16	258	0.44
20695		2.03	0.10	7.98	70.9	100	1.56	0.44	4.50	0.07	19.50	53.6	188	0.28	101.5	8.74
20696		2.19	0.07	8.34	54.9	190	1.03	0.18	1.77	0.02	14.00	23.4	63	0.18	116.0	2.81
20697		2.10	0.14	7.93	11.4	140	0.88	0.08	0.69	0.36	12.75	4.4	8	0.27	28.5	1.09
20698		2.00	0.22	6.80	12.6	190	0.66	0.15	0.43	0.02	38.0	4.3	19	0.21	32.1	0.51
20699		0.61	0.32	7.98	81.0	70	2.24	0.88	3.27	0.28	17.25	45.3	189	0.37	177.5	5.79
20700		0.57	0.33	8.01	82.9	70	2.43	1.00	3.66	0.52	21.6	51.2	217	0.35	193.5	5.80
20701		0.11	4.24	5.50	15.8	120	0.57	0.76	3.45	2.17	18.60	992	264	0.74	>10000	18.10
20702		1.11	2.43	6.67	8.6	190	1.23	3.68	8.50	0.13	3.35	51.3	357	0.33	146.0	7.93
20703		0.95	0.46	7.62	30.6	230	1.02	1.49	4.57	0.10	7.95	43.4	433	1.01	72.8	5.10
20704		0.95	0.29	6.76	9.6	130	0.73	0.33	6.95	2.04	3.50	54.3	420	1.00	178.0	7.70
20705		2.10	0.17	5.88	5.3	80	0.81	0.31	9.05	0.21	3.07	53.7	394	1.40	96.3	7.01
20706		2.03	0.19	6.97	8.5	70	0.72	0.35	6.91	0.10	13.20	55.3	387	0.64	68.2	7.36
20707		0.86	0.04	7.51	1.7	420	0.91	0.09	1.42	0.34	34.2	2.3	10	2.13	14.2	2.01
20708		1.76	0.15	6.71	38.7	250	1.69	0.60	5.34	0.05	8.54	37.9	246	0.72	109.0	5.46
20709		1.20	0.13	6.74	11.4	420	1.20	0.49	4.04	0.30	12.65	19.0	185	1.18	113.0	3.80
20710		1.15	0.08	5.71	7.1	30	0.16	0.04	8.86	0.07	2.95	51.3	377	0.28	100.5	6.32
20711		2.25	0.05	6.61	2.6	80	0.14	0.09	8.45	0.17	3.52	54.9	439	0.62	63.5	7.62
20712		2.32	0.09	2.58	28.9	<10	0.19	0.12	6.49	0.04	7.28	30.4	164	0.23	67.0	34.9



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		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
20673		10.70	0.06	0.6	0.043	0.61	1.6	22.5	4.07	1695	1.62	2.80	0.7	280	130	64.5
20674		15.05	0.07	1.8	0.043	1.64	5.8	35.4	2.46	832	0.94	3.21	6.7	180.0	90	6.6
20675		0.46	0.05	0.1	<0.005	0.03	1.6	4.8	2.54	132	0.17	0.08	0.2	1.9	60	0.5
20676		12.70	0.07	0.4	0.051	0.77	3.2	44.5	4.32	1555	0.26	3.40	0.8	280	140	2.5
20677		12.65	0.05	0.3	0.049	0.61	3.5	30.2	3.81	1420	1.72	3.47	0.8	261	130	1.9
20678		12.15	0.07	0.4	0.058	0.87	3.8	38.8	6.34	1545	3.52	2.02	1.0	278	180	2.4
20679		11.10	0.09	4.8	0.014	3.24	1.5	7.5	0.39	262	0.53	5.17	7.5	41.1	20	28.5
20680		10.45	0.09	4.1	0.011	3.48	1.8	10.6	0.33	393	0.44	4.57	6.6	43.3	20	29.7
20681		12.50	0.23	1.3	0.120	0.31	7.7	11.0	3.94	998	5.48	1.18	4.9	>10000	460	14.8
20682		13.05	0.09	1.8	0.050	0.80	6.2	23.2	3.35	1205	3.24	4.35	5.3	253	240	5.4
20683		16.75	0.12	2.4	0.068	0.80	8.6	53.9	3.90	1345	1.14	3.32	4.7	146.0	560	5.4
20684		14.15	0.10	0.7	0.072	0.74	7.0	47.8	5.84	1630	1.96	2.35	1.7	243	360	6.2
20685		12.65	0.08	0.4	0.062	0.51	4.7	62.2	5.85	4420	16.45	2.08	0.9	124.5	140	3.3
20686		15.60	0.07	0.4	0.051	0.49	4.2	41.9	5.13	2580	3.55	2.05	0.9	119.5	140	49.9
20687		17.65	0.14	2.9	0.037	0.29	7.1	34.6	2.43	1100	17.75	5.32	16.7	69.4	490	31.6
20688		20.1	0.12	1.1	0.082	0.56	5.0	22.4	2.95	1895	19.20	3.20	3.4	123.0	280	88.5
20689		25.2	0.10	0.8	0.093	0.39	8.1	17.3	3.23	1935	35.7	2.27	2.2	141.0	230	4.5
20690		15.40	0.11	1.2	0.060	0.43	20.1	13.2	2.97	1545	18.25	4.52	4.4	132.0	220	20.9
20691		14.20	0.11	3.7	0.016	0.68	5.9	4.1	0.34	84	1.44	7.78	7.4	15.8	210	9.0
20692		14.10	0.11	2.9	0.009	0.24	9.6	9.2	0.52	78	1.82	6.34	6.1	9.8	160	9.2
20693		12.15	0.07	2.9	0.005	0.39	8.2	4.3	0.16	57	2.52	6.00	6.0	3.4	190	63.2
20694		14.40	0.10	2.8	0.054	0.67	9.0	5.0	0.22	61	2.33	6.47	5.6	8.5	170	1155
20695		21.3	0.11	1.3	0.091	0.50	8.3	35.0	3.31	1965	9.58	3.78	3.2	154.5	250	6.9
20696		16.90	0.12	2.2	0.031	1.00	5.8	7.4	1.26	697	3.23	6.57	5.5	55.6	190	7.7
20697		16.95	0.10	2.9	0.018	1.15	5.8	21.4	0.87	150	0.81	6.73	5.8	12.1	180	4.7
20698		12.20	0.12	2.8	<0.005	0.94	18.6	4.6	0.13	80	6.17	5.51	5.9	6.3	160	37.2
20699		20.9	0.14	2.1	0.064	0.30	5.9	36.8	2.62	1210	6.42	4.93	6.4	107.0	200	60.2
20700		20.1	0.14	2.1	0.064	0.31	7.5	32.5	2.82	1210	4.91	4.81	5.1	106.0	180	76.5
20701		12.75	0.25	1.3	0.123	0.32	7.7	11.2	3.96	1005	4.90	1.19	4.9	>10000	460	14.4
20702		14.00	0.09	0.4	0.056	0.60	1.3	27.1	5.31	1820	1.22	1.43	0.9	169.5	140	278
20703		13.35	0.13	2.7	0.039	1.41	3.0	40.6	4.29	1125	18.40	3.67	4.2	171.5	80	9.9
20704		12.95	0.10	0.4	0.052	0.60	1.3	27.8	5.06	1710	0.56	2.07	1.0	136.0	150	37.3
20705		12.10	0.08	0.4	0.047	0.39	1.1	38.2	6.12	1475	24.6	1.38	0.8	179.0	130	12.0
20706		14.50	0.09	1.1	0.059	0.23	5.3	50.2	4.99	1470	1.16	2.82	1.3	147.0	500	8.5
20707		18.50	0.14	3.4	0.030	1.59	17.7	39.6	0.63	339	1.55	2.82	5.3	4.0	270	22.3
20708		15.45	0.11	2.6	0.040	1.55	3.4	52.4	3.02	938	1.71	2.29	4.6	80.6	90	14.2
20709		16.10	0.13	2.3	0.051	1.71	5.2	45.4	2.08	627	2.42	2.94	3.7	54.7	60	24.3
20710		13.35	0.08	0.3	0.038	0.16	1.1	14.2	3.80	1335	0.72	0.66	0.7	155.5	120	4.2
20711		13.25	0.08	0.5	0.046	0.49	1.3	31.4	4.35	1550	0.65	1.07	0.8	156.0	140	3.2
20712		5.56	0.59	0.2	0.027	0.01	2.7	8.0	5.33	3250	0.14	0.03	0.3	155.5	110	2.3



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CERTIFICATE OF ANALYSIS SD22041348

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
20673		22.8	<0.002	0.13	0.36	51.9	1	1.2	37.1	0.05	<0.05	0.09	0.267	0.15	<0.1	225
20674		55.3	<0.002	0.01	0.24	30.8	1	4.9	98.8	1.96	<0.05	4.62	0.185	0.19	1.8	141
20675		0.7	<0.002	0.01	<0.05	0.6	2	<0.2	72.5	<0.05	<0.05	0.09	0.013	<0.02	0.2	3
20676		20.3	<0.002	0.08	0.27	54.9	1	0.7	139.5	0.06	<0.05	0.11	0.319	0.08	0.2	265
20677		16.1	<0.002	0.09	0.24	51.8	1	0.6	149.5	0.05	0.05	0.11	0.295	0.07	0.1	248
20678		20.0	<0.002	0.03	0.25	46.7	1	3.5	79.6	0.06	<0.05	0.17	0.267	0.08	0.4	242
20679		82.3	<0.002	0.09	0.22	5.0	2	1.4	44.8	1.24	0.47	8.37	0.042	0.52	0.9	59
20680		80.2	<0.002	0.05	0.27	3.6	1	1.2	53.2	1.11	0.05	6.45	0.034	0.55	0.8	62
20681		11.5	0.045	8.06	3.37	9.0	22	2.6	184.5	0.31	4.23	1.13	0.532	0.19	0.4	78
20682		24.3	0.002	0.32	0.24	38.6	1	2.0	86.7	0.49	0.05	2.45	0.362	0.14	0.9	207
20683		19.8	<0.002	0.21	0.46	39.4	1	1.8	153.0	0.30	<0.05	1.94	0.596	0.14	0.7	270
20684		12.0	<0.002	0.04	0.43	37.4	1	4.5	190.0	0.12	<0.05	0.48	0.279	0.04	0.3	217
20685		12.1	<0.002	0.01	0.38	43.1	1	2.4	328	0.06	<0.05	0.15	0.272	0.02	0.1	216
20686		15.0	<0.002	0.01	0.50	47.5	<1	1.9	457	0.05	<0.05	0.10	0.288	0.02	0.1	225
20687		9.9	<0.002	0.17	0.39	32.7	1	11.0	78.3	5.87	0.12	4.62	0.306	0.09	3.3	166
20688		25.3	<0.002	0.11	0.45	38.8	1	5.5	320	0.72	<0.05	1.16	0.405	0.21	1.3	235
20689		16.4	0.003	0.02	0.61	43.0	1	5.5	532	0.22	<0.05	0.34	0.458	0.13	0.6	267
20690		15.2	0.002	0.09	0.33	39.9	1	5.0	173.0	0.66	0.05	1.68	0.416	0.11	1.6	219
20691		23.6	<0.002	0.03	0.15	2.1	<1	1.3	63.2	0.85	<0.05	7.91	0.048	0.12	1.7	16
20692		7.1	<0.002	0.05	0.16	2.3	<1	1.7	60.3	0.81	<0.05	6.68	0.035	0.04	1.8	14
20693		12.4	<0.002	0.03	0.13	1.7	1	1.2	59.5	0.67	<0.05	6.31	0.036	0.07	1.7	8
20694		20.0	<0.002	0.17	0.15	1.9	1	1.1	63.6	0.62	0.10	5.84	0.037	0.12	1.5	11
20695		17.8	0.002	0.06	0.29	45.6	1	9.1	172.5	0.63	0.06	1.08	0.496	0.17	1.5	285
20696		31.0	<0.002	0.06	0.15	14.9	1	2.9	67.9	0.92	<0.05	3.98	0.185	0.17	1.7	99
20697		26.8	<0.002	0.02	0.22	2.1	1	1.4	51.1	0.72	<0.05	6.14	0.035	0.14	2.1	17
20698		36.1	<0.002	0.03	0.13	2.4	<1	1.3	55.4	0.68	<0.05	6.24	0.042	0.19	1.9	10
20699		7.1	<0.002	0.11	0.22	33.5	1	8.2	82.1	1.87	0.06	3.25	0.334	0.11	2.4	194
20700		10.3	<0.002	0.19	0.25	35.5	1	8.0	80.2	1.38	0.06	4.20	0.314	0.11	2.8	193
20701		11.4	0.044	8.01	3.32	9.1	23	2.8	184.5	0.32	4.11	1.15	0.529	0.19	0.4	78
20702		46.8	<0.002	0.06	0.31	48.5	2	2.8	148.0	0.07	0.18	0.13	0.294	0.29	0.1	231
20703		59.8	<0.002	0.02	0.21	27.2	1	2.5	61.7	0.55	0.17	5.83	0.175	0.34	1.7	124
20704		41.9	<0.002	0.08	0.23	47.5	1	0.7	81.4	0.06	0.07	0.12	0.311	0.17	0.1	237
20705		35.6	<0.002	0.07	0.46	41.8	1	3.2	61.2	0.05	<0.05	0.12	0.258	0.21	<0.1	212
20706		12.5	<0.002	0.17	0.61	44.9	1	2.5	128.0	0.08	0.05	0.57	0.348	0.10	0.2	247
20707		65.2	<0.002	0.02	0.56	0.9	1	1.1	121.5	0.50	<0.05	6.61	0.058	0.29	1.8	3
20708		61.0	<0.002	0.04	0.23	27.0	1	1.0	45.0	0.62	<0.05	5.99	0.170	0.32	2.0	119
20709		64.4	<0.002	0.05	0.12	18.4	1	1.6	54.2	0.45	0.08	5.46	0.127	0.37	1.9	88
20710		12.0	<0.002	0.04	0.94	40.1	1	0.3	148.0	0.05	<0.05	0.15	0.250	0.11	<0.1	195
20711		32.6	<0.002	0.04	0.87	49.6	1	0.5	113.5	0.06	0.06	0.12	0.306	0.18	<0.1	237
20712		0.4	<0.002	1.18	0.89	71.1	1	0.4	9.4	<0.05	0.15	0.05	0.113	0.06	<0.1	176



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Sample Description	Method Analyte Units LOD	ME–MS61	ME–MS61	ME–MS61	ME–MS61	Ag–OG62	Cu–OG62	Ni–OG62	Au–ICP21	CRU–QC	PUL–QC
		W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Cu %	Ni %	Au ppm	Pass2mm %	Pass75um %
		0.1	0.1	2	0.5	1	0.001	0.001	0.001	0.01	0.01
20673		0.7	14.1	417	9.9					72.3	96.0
20674		0.7	28.0	70	15.3						96.2
20675		0.4	2.7	3	2.5						
20676		1.0	14.1	108	7.9						
20677		0.8	14.1	96	7.2						
20678		1.0	15.0	103	13.4						
20679		0.5	9.5	10	108.0						
20680		0.5	9.4	9	95.3						
20681		2.4	9.4	140	51.7		1.620	4.63			
20682		1.0	19.0	74	54.4						
20683		2.5	26.3	115	92.6						
20684		1.6	17.5	132	21.2						
20685		0.9	15.2	120	10.5						
20686		0.7	15.6	120	7.0						
20687		1.5	35.2	167	54.5						
20688		1.2	34.7	102	21.8						
20689		1.3	35.2	81	13.2						
20690		1.4	27.8	69	28.4						
20691		0.4	12.2	8	99.2						
20692		0.7	10.6	11	77.1						
20693		0.4	8.9	90	78.2						
20694		0.4	9.1	1975	74.4						
20695		1.2	33.1	110	22.3						
20696		0.7	13.1	37	56.3						
20697		0.8	11.8	40	78.0						
20698		0.4	11.3	7	75.6						
20699		1.4	26.0	107	32.5						
20700		1.2	30.8	144	30.6						
20701		2.2	9.4	139	52.0		1.620	4.56			
20702		4.2	12.5	86	6.6						
20703		0.4	16.5	58	69.0						
20704		0.5	14.4	441	8.6						
20705		3.0	10.5	95	9.8					72.5	
20706		1.6	14.7	70	31.3						
20707		0.5	11.9	65	123.5						
20708		0.6	23.7	60	58.6						
20709		0.3	18.4	147	55.6						
20710		0.2	10.3	61	6.8						
20711		0.6	13.0	93	10.0						91.7
20712		0.9	42.1	65	10.0					75.0	89.7



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		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
20713		2.32	0.07	6.97	133.0	70	0.23	0.13	5.84	0.17	4.73	58.2	783	5.58	48.3	13.70
20714		2.25	0.10	6.25	81.2	50	0.23	0.21	6.03	0.24	4.04	60.7	994	4.10	91.7	15.10
20715		2.20	0.27	6.48	27.2	40	0.42	0.56	8.10	2.57	4.38	70.1	494	0.54	133.5	9.13
20716		1.38	0.30	6.41	75.8	50	0.61	0.33	6.53	0.48	5.26	86.3	701	1.06	178.0	11.40
20717		1.93	0.05	6.47	47.1	280	1.39	0.13	4.75	0.05	22.5	32.3	555	1.05	39.0	4.65
20718		2.66	0.07	5.79	34.1	170	0.60	0.11	8.93	0.20	2.54	71.2	849	1.74	51.8	8.19
20719		1.10	0.02	5.51	20.8	120	1.13	0.08	9.12	0.17	2.76	63.1	759	0.82	8.3	8.01
20720		1.31	0.04	5.78	20.4	140	1.09	0.11	8.84	0.25	2.91	62.8	768	1.00	8.0	8.10
20721		0.11	4.07	5.46	14.0	120	0.60	0.85	3.50	2.06	17.05	980	272	0.75	>10000	18.15
20722		3.11	0.10	6.80	67.4	110	0.71	0.19	11.20	0.21	6.85	54.7	954	0.86	171.5	7.44
20723		2.90	0.07	6.25	85.5	20	1.22	1.39	13.30	0.21	3.00	51.7	952	0.17	46.2	7.95
20724		2.68	0.08	5.93	133.5	30	0.41	0.18	12.10	0.12	3.66	55.8	924	0.24	67.9	7.56
20725		0.58	<0.01	0.08	0.7	20	0.06	0.01	33.4	0.02	0.98	1.0	7	<0.05	1.6	0.12
20726		2.64	0.07	6.04	229	80	0.26	0.09	11.15	0.21	3.44	57.3	862	0.63	48.2	6.88
20727		1.44	0.10	5.78	381	60	0.35	0.13	10.85	0.22	4.15	53.3	630	0.55	58.4	6.53
20728		1.59	0.39	6.00	7450	70	0.27	0.52	5.03	0.12	8.22	56.3	161	2.60	502	16.45
20729		1.50	0.11	8.67	1060	70	0.34	0.14	7.45	0.16	9.01	58.2	205	2.23	109.0	7.92
20730		2.11	0.10	7.84	585	120	0.30	0.11	7.77	0.23	9.16	48.4	191	2.82	96.6	8.49
20731		2.50	0.13	7.72	247	90	0.51	0.09	8.39	0.21	8.76	48.3	185	2.12	133.5	9.10
20732		2.16	0.09	7.20	175.5	80	0.35	0.05	7.67	0.19	9.88	46.3	244	1.36	128.0	9.24
20733		2.18	0.07	8.23	515	80	0.33	0.08	6.25	0.13	8.76	50.8	205	2.09	107.0	9.24
20734		2.05	0.06	7.46	375	90	0.29	0.07	6.88	0.16	7.26	48.6	187	2.28	98.0	8.77
20735		2.21	0.16	7.76	332	80	0.28	0.07	6.68	0.48	7.39	52.5	191	1.32	174.0	8.76
20736		1.92	0.11	7.52	156.0	70	0.24	0.04	6.53	0.35	6.81	49.5	193	1.10	110.0	8.32
20737		2.28	0.13	7.34	249	80	0.35	0.04	8.58	0.25	8.16	47.1	162	1.67	147.5	8.63
20738		2.08	0.10	8.08	188.5	100	0.21	0.04	7.33	0.24	8.40	48.9	182	1.79	127.0	8.83
20739		0.69	0.10	7.85	933	120	0.21	0.07	8.71	0.23	7.45	47.3	163	1.53	114.5	7.19
20740		0.79	0.13	7.79	662	130	0.18	0.08	8.89	0.24	7.39	44.5	170	1.54	158.0	7.33
20741		0.12	4.03	5.45	13.8	120	0.54	0.87	3.47	2.05	17.40	983	271	0.76	>10000	18.10
20742		1.71	0.13	6.65	311	50	0.21	0.09	11.45	0.24	5.94	40.7	131	0.62	124.0	7.17
20743		2.48	0.13	4.11	284	10	0.33	0.13	16.55	0.15	4.94	42.5	89	0.20	157.0	7.70
20744		1.84	0.04	8.05	199.0	70	0.26	0.07	8.22	0.16	9.16	52.6	179	3.11	34.8	8.24
20745		1.90	0.09	8.08	213	100	0.29	0.06	6.15	0.33	8.04	52.3	210	4.85	105.0	7.52
20746		2.71	0.27	7.59	369	70	0.41	0.13	6.24	0.46	8.64	50.4	202	2.33	193.0	11.40
20747		2.53	0.29	7.98	210	120	0.31	0.10	6.07	0.31	8.33	52.9	213	2.50	255	9.76
20748		2.44	0.13	7.97	123.0	150	0.35	0.08	5.59	0.77	6.30	52.5	227	0.97	112.5	7.87
20749		2.61	0.07	7.46	58.2	250	0.84	0.04	4.46	0.24	38.1	30.6	149	2.52	60.1	4.56
20750		2.51	0.09	7.73	48.0	240	1.17	0.05	5.24	0.13	28.4	37.3	162	2.41	84.5	4.55
20751		2.57	0.09	8.40	76.5	180	0.27	0.06	6.97	0.16	7.45	53.1	229	0.80	98.2	6.38
20752		2.46	0.15	8.24	67.4	310	0.61	0.23	5.27	0.20	8.48	49.1	247	1.14	175.5	7.42



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Sample Description	Method Analyte Units LOD	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
20713		13.30	0.07	0.4	0.059	0.45	1.8	37.4	3.77	3880	0.50	1.16	0.8	286	150	4.6
20714		11.55	0.07	0.4	0.053	0.34	1.6	23.0	3.87	4020	0.50	1.06	0.8	305	150	5.1
20715		16.50	0.07	0.5	0.098	0.39	1.9	66.8	5.06	2320	1.63	1.13	1.8	321	140	232
20716		12.60	0.07	0.3	0.093	0.46	2.3	45.4	4.47	2020	6.22	1.14	0.7	315	120	233
20717		13.25	0.14	2.2	0.048	1.59	9.4	42.9	2.70	1010	2.09	2.18	4.2	143.0	80	7.0
20718		10.15	0.13	0.3	0.047	0.79	0.9	49.2	6.13	1730	0.46	0.78	0.8	346	130	9.4
20719		10.00	0.10	0.5	0.047	0.58	1.0	48.9	6.65	1615	3.61	0.89	1.6	294	120	7.1
20720		9.87	0.13	0.5	0.052	0.64	1.1	49.8	6.61	1620	3.07	0.91	1.6	293	120	33.4
20721		11.00	0.22	1.1	0.124	0.32	7.0	9.7	4.00	998	4.40	1.19	4.5	>10000	470	12.8
20722		11.30	0.07	0.5	0.046	0.47	3.0	26.1	4.69	1760	0.81	0.74	1.4	304	180	3.8
20723		11.40	0.09	0.4	0.073	0.14	1.2	19.2	3.71	1860	1.12	0.77	0.8	236	130	3.8
20724		11.10	0.07	0.5	0.049	0.23	1.6	22.8	4.14	1740	10.80	0.81	0.8	240	140	4.6
20725		0.20	0.05	<0.1	<0.005	0.01	1.3	1.1	1.63	119	0.06	0.03	0.1	1.9	70	<0.5
20726		10.60	0.06	0.4	0.049	0.43	1.4	35.5	5.04	1765	0.58	1.04	0.8	243	140	3.5
20727		10.80	0.06	0.4	0.041	0.38	1.6	36.3	5.33	1680	0.50	1.25	1.0	250	220	1.0
20728		12.55	0.11	0.4	0.054	0.42	3.1	46.4	3.08	2790	1.22	0.69	1.8	155.5	260	3.3
20729		16.85	0.08	0.7	0.071	0.46	3.3	91.2	3.00	1650	0.70	1.22	2.5	196.5	320	3.2
20730		15.85	0.09	0.8	0.073	0.73	3.4	39.5	3.56	1700	2.24	1.18	2.5	128.5	330	1.9
20731		16.00	0.07	0.6	0.068	0.55	3.2	37.4	3.94	1745	31.2	1.18	2.4	108.0	340	2.5
20732		15.35	0.07	0.6	0.067	0.52	3.7	33.7	4.32	1620	4.11	0.96	2.4	90.3	340	1.5
20733		15.95	0.09	0.6	0.054	0.54	3.2	66.7	4.52	1545	2.06	1.45	2.4	129.0	340	1.5
20734		15.50	0.07	0.5	0.068	0.48	2.6	26.7	4.51	1490	0.71	1.04	2.2	133.0	310	1.9
20735		15.90	0.09	0.4	0.063	0.45	2.7	34.0	4.60	1550	0.55	1.30	2.2	140.5	300	91.6
20736		15.10	0.06	0.5	0.060	0.44	2.4	42.6	4.12	1545	0.52	1.51	2.2	138.0	310	30.5
20737		14.40	0.07	0.8	0.067	0.49	3.1	44.6	4.64	1520	9.51	1.22	2.0	133.5	280	12.2
20738		15.35	0.08	0.8	0.061	0.68	3.0	45.1	4.75	1485	0.34	1.37	2.1	135.0	310	6.4
20739		15.40	0.08	0.5	0.057	0.74	2.7	41.8	4.62	1310	0.52	0.99	2.1	138.0	310	5.3
20740		14.70	0.08	0.4	0.064	0.77	2.7	35.9	4.66	1320	0.35	0.97	2.0	135.5	320	4.4
20741		11.05	0.19	1.1	0.120	0.32	7.2	8.3	3.95	988	4.54	1.18	4.5	>10000	470	12.9
20742		12.75	0.05	0.6	0.059	0.31	2.2	29.7	6.14	1420	0.83	0.44	1.7	139.0	270	5.2
20743		8.92	<0.05	0.5	0.055	0.09	1.9	16.3	6.92	1650	20.2	0.27	1.1	207	240	0.8
20744		15.40	0.06	0.6	0.065	0.50	3.5	36.9	3.69	1765	3.84	1.16	2.4	158.5	400	2.5
20745		17.00	0.06	0.8	0.074	0.70	2.9	34.8	2.66	1830	3.69	1.70	2.5	142.5	340	5.1
20746		15.15	0.08	0.8	0.108	0.45	3.3	32.7	3.11	2640	0.87	1.50	2.2	136.5	290	7.0
20747		16.55	0.06	0.9	0.091	0.77	3.2	30.8	2.87	2400	0.88	1.28	2.2	160.0	250	7.2
20748		16.65	0.07	0.7	0.070	0.94	2.2	32.8	2.34	2560	0.39	2.11	2.2	158.0	290	35.1
20749		16.60	0.10	2.5	0.062	1.08	18.2	21.0	1.25	1350	1.27	2.45	4.1	88.8	190	25.0
20750		17.25	0.12	2.1	0.075	1.11	13.4	23.0	1.47	1235	1.83	2.42	4.5	107.5	210	10.6
20751		16.95	0.07	0.6	0.076	0.59	2.7	20.8	2.13	1720	0.47	2.07	2.2	161.5	290	4.3
20752		17.35	0.07	0.6	0.081	1.12	3.8	58.3	2.55	1705	0.42	2.12	2.3	158.0	270	13.1



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Sample Description	Method Analyte Units LOD	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	
		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
20713		30.6	<0.002	0.40	1.24	49.1	1	0.8	57.7	0.05	0.07	0.10	0.295	0.20	<0.1	265
20714		17.8	<0.002	0.81	1.58	47.2	1	0.6	56.2	0.05	0.10	0.11	0.278	0.14	<0.1	252
20715		13.8	<0.002	0.11	0.70	49.6	1	5.3	82.3	0.12	0.28	0.11	0.308	0.12	0.1	238
20716		20.7	<0.002	0.21	0.56	49.4	2	0.8	48.3	0.05	0.06	0.09	0.271	0.11	<0.1	234
20717		65.8	<0.002	0.03	0.49	26.0	<1	2.8	72.3	0.59	0.05	6.91	0.154	0.37	2.4	113
20718		51.7	<0.002	0.01	0.53	44.2	<1	1.1	83.4	0.06	0.06	0.10	0.252	0.29	<0.1	210
20719		34.1	<0.002	<0.01	0.40	40.6	<1	1.5	81.1	0.20	<0.05	0.36	0.243	0.18	0.2	202
20720		41.1	<0.002	<0.01	0.39	42.8	<1	1.5	79.9	0.21	<0.05	0.41	0.249	0.21	0.2	204
20721		10.2	0.049	7.89	2.95	8.6	19	2.3	180.0	0.29	4.22	0.99	0.522	0.17	0.3	79
20722		25.8	<0.002	0.07	1.16	45.4	1	1.4	158.5	0.08	0.09	0.56	0.291	0.14	0.1	230
20723		4.2	<0.002	0.04	1.66	40.3	<1	9.3	140.0	<0.05	0.05	0.08	0.245	0.07	<0.1	216
20724		9.5	0.002	0.03	2.04	40.8	<1	2.0	177.0	0.09	0.06	0.35	0.236	0.09	0.1	196
20725		0.3	<0.002	<0.01	0.07	0.3	1	<0.2	81.1	<0.05	<0.05	0.05	0.005	<0.02	0.1	2
20726		20.9	0.002	0.05	1.50	41.2	<1	0.5	100.5	0.05	0.08	0.10	0.289	0.13	<0.1	216
20727		24.2	<0.002	0.34	1.27	36.4	1	0.8	73.8	0.06	0.10	0.11	0.303	0.14	<0.1	203
20728		29.2	0.002	3.88	6.67	39.4	1	0.6	70.8	0.12	0.13	0.19	0.423	0.21	<0.1	234
20729		25.2	<0.002	0.49	1.91	41.7	1	0.8	119.5	0.16	0.08	0.24	0.582	0.16	0.1	294
20730		43.4	0.002	0.56	1.16	40.9	1	0.9	133.5	0.16	0.09	0.24	0.564	0.29	0.1	277
20731		32.8	0.002	0.63	1.00	39.8	1	1.7	137.5	0.15	0.06	0.24	0.563	0.23	0.1	284
20732		32.5	0.002	0.32	1.00	42.3	<1	0.9	123.5	0.15	0.06	0.24	0.553	0.21	0.1	280
20733		36.2	0.002	0.37	1.43	40.6	1	0.9	133.5	0.15	0.14	0.24	0.573	0.22	<0.1	279
20734		22.6	<0.002	0.16	2.70	32.7	1	0.5	141.0	0.14	0.10	0.18	0.494	0.24	0.1	254
20735		18.4	0.002	0.35	2.37	35.1	1	0.6	141.5	0.14	0.09	0.20	0.506	0.21	<0.1	257
20736		14.7	<0.002	0.13	2.14	30.2	1	0.5	129.0	0.14	<0.05	0.18	0.494	0.14	<0.1	253
20737		31.5	<0.002	0.47	2.38	34.0	1	1.8	117.5	0.12	0.07	0.21	0.439	0.20	<0.1	226
20738		42.0	0.002	0.18	2.33	36.6	1	0.5	117.5	0.13	<0.05	0.23	0.487	0.24	0.1	253
20739		57.1	0.002	0.46	1.79	35.3	1	0.6	124.0	0.13	0.07	0.21	0.486	0.31	<0.1	240
20740		56.8	<0.002	0.59	1.70	33.4	1	0.6	118.5	0.13	0.08	0.21	0.486	0.36	<0.1	240
20741		10.5	0.050	7.91	2.79	8.5	20	2.4	179.5	0.28	4.07	1.00	0.519	0.16	0.3	78
20742		17.9	<0.002	0.29	1.32	28.2	1	2.1	58.2	0.11	0.05	0.18	0.406	0.14	<0.1	208
20743		2.1	<0.002	0.54	1.27	15.6	1	3.6	32.3	0.07	0.11	0.10	0.268	0.06	<0.1	130
20744		34.1	<0.002	0.06	1.35	34.0	<1	1.5	123.5	0.15	<0.05	0.23	0.535	0.22	0.1	252
20745		24.3	0.002	0.10	2.32	34.4	<1	1.1	116.5	0.16	<0.05	0.22	0.581	0.30	<0.1	274
20746		24.6	0.002	1.21	2.01	39.7	1	1.2	85.5	0.41	0.30	0.33	0.511	0.20	0.1	261
20747		29.9	0.002	0.98	3.02	38.6	1	0.8	92.1	0.15	0.14	0.30	0.552	0.43	0.1	274
20748		20.5	0.002	0.21	2.20	38.3	1	1.0	99.2	0.15	0.05	0.18	0.603	0.29	0.1	304
20749		37.5	0.002	0.06	1.34	25.7	<1	1.6	114.0	0.41	<0.05	3.88	0.382	0.26	1.3	167
20750		48.1	<0.002	0.08	1.04	28.1	<1	2.0	120.0	0.41	<0.05	4.49	0.417	0.30	1.2	189
20751		12.4	0.002	0.08	1.70	39.2	1	0.6	143.5	0.14	<0.05	0.23	0.610	0.15	0.1	294
20752		29.2	0.002	0.23	1.88	39.7	1	0.8	134.5	0.15	<0.05	0.18	0.628	0.33	0.1	308



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Sample Description	Method Analyte Units LOD	ME–MS61	ME–MS61	ME–MS61	ME–MS61	Ag–OG62	Cu–OG62	Ni–OG62	Au–ICP21	CRU–QC	PUL–QC
		W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Cu %	Ni %	Au ppm	Pass2mm %	Pass75um %
		0.1	0.1	2	0.5	1	0.001	0.001	0.001	0.01	0.01
20713		1.6	19.4	79	14.2						88.2
20714		0.5	17.8	96	11.3						89.1
20715		1.3	15.9	763	13.8						
20716		0.7	13.6	241	7.3						
20717		0.5	23.1	54	57.4						
20718		0.4	11.1	120	5.9						
20719		0.5	13.9	96	7.5						
20720		0.5	13.5	121	7.6						
20721		2.0	9.2	140	49.8		1.635	4.71			
20722		2.1	12.5	134	17.0						
20723		1.0	10.6	93	11.8						
20724		3.1	13.1	81	12.1						
20725		<0.1	2.1	4	1.2						
20726		1.3	11.7	113	7.1						
20727		2.6	12.3	121	8.6				0.006		
20728		3.5	24.2	80	12.8				0.030		
20729		4.1	23.1	96	20.4				0.005		
20730		3.7	21.3	98	16.6						
20731		3.1	22.3	94	19.3						
20732		0.9	23.6	108	20.5						
20733		1.2	21.6	104	20.1						
20734		0.3	18.2	97	12.6						
20735		0.5	18.2	201	10.6						
20736		1.5	16.8	166	11.2						
20737		4.0	18.6	117	13.2						
20738		0.7	19.1	137	11.7						
20739		1.4	17.7	163	9.1						
20740		1.5	17.8	180	8.7						
20741		2.0	9.4	136	46.3		1.640	4.68			
20742		8.2	14.1	246	12.8						
20743		16.9	11.4	259	13.8						
20744		2.7	20.2	140	16.6						
20745		1.7	16.4	187	19.9						
20746		1.1	22.7	279	31.4						
20747		0.8	20.6	196	31.4						
20748		1.1	18.7	311	18.7						
20749		0.2	24.4	122	89.3						
20750		0.3	22.8	92	70.0						
20751		0.2	19.3	107	12.9						93.4
20752		0.5	18.6	127	13.6					70.3	90.7



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		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
20753		1.92	0.20	7.83	218	50	1.35	0.67	2.34	0.05	7.38	78.3	236	1.06	140.0	6.57
20754		1.25	0.06	7.14	107.0	110	0.98	0.67	4.54	0.05	6.28	83.3	196	0.88	106.5	8.19
20755		2.11	0.04	7.67	82.7	30	0.97	0.26	6.32	0.02	10.15	51.7	196	0.84	167.0	6.69
20756		1.83	0.11	8.18	129.5	50	1.12	0.63	7.38	<0.02	23.1	65.8	200	2.24	543	4.98
20757		1.64	0.11	7.95	188.5	110	1.10	0.54	2.65	0.17	9.97	80.2	254	1.57	205	5.64
20758		2.02	0.11	8.00	246	160	0.34	0.06	5.76	0.22	6.12	52.9	232	2.96	122.0	5.35
20759		0.77	0.10	6.96	2.7	550	1.74	1.86	3.85	0.12	15.25	22.0	122	2.17	24.9	3.57
20760		0.98	0.06	6.92	2.4	520	2.11	0.27	3.70	0.10	15.70	20.7	119	2.13	21.8	3.32
20761		0.06	>100	4.27	684	270	0.81	54.8	0.64	24.5	30.3	9.1	32	2.60	5240	2.21
20762		2.79	0.32	7.03	45.8	160	0.27	0.13	9.20	0.19	7.57	38.2	176	1.26	335	8.58
20763		2.54	0.43	7.18	133.0	300	0.30	0.13	7.22	0.27	8.31	45.1	175	3.02	494	8.68
20764		1.76	0.14	8.14	13.8	340	0.35	0.09	7.12	0.17	7.61	46.1	198	3.75	183.0	5.91
20765		1.23	0.11	7.54	12.4	630	0.95	0.12	6.68	0.18	69.7	45.6	264	1.87	124.5	5.58
20766		1.86	0.18	6.33	52.8	240	0.62	0.18	9.53	0.15	29.8	38.3	184	1.77	244	6.93
20767		1.94	0.06	6.02	106.5	430	1.22	0.11	6.37	0.14	88.2	44.7	401	2.15	76.6	5.95
20768		2.65	0.13	8.10	343	390	0.31	0.13	4.84	0.16	6.78	43.9	238	3.74	146.5	6.87
20769		2.16	0.19	7.35	9.7	60	0.90	0.15	7.85	0.09	7.23	46.5	180	0.42	263	8.47
20770		2.10	0.11	7.55	6.9	700	1.42	0.08	6.90	0.18	62.2	46.2	124	2.24	142.5	9.32

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CERTIFICATE OF ANALYSIS SD22041348

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
20753		18.85	0.12	0.8	0.082	0.31	2.8	146.5	3.14	1085	3.18	3.36	2.6	155.0	310	13.2
20754		17.55	0.08	0.7	0.086	0.68	2.2	122.0	4.04	1440	2.26	2.21	2.2	133.0	290	2.9
20755		18.70	0.09	0.7	0.086	0.28	4.1	113.5	3.56	1245	0.31	2.51	2.2	135.0	300	4.8
20756		21.4	0.10	1.0	0.207	0.34	12.2	110.0	2.63	784	0.70	1.97	2.4	130.5	340	4.3
20757		19.20	0.11	0.9	0.084	0.56	3.9	123.0	2.79	1125	1.43	3.37	2.7	162.5	350	20.0
20758		19.10	0.10	0.7	0.071	0.70	2.0	40.9	1.96	1525	0.75	2.05	2.6	152.5	320	19.8
20759		18.65	0.11	2.6	0.056	1.53	5.7	21.9	1.08	688	26.9	2.87	5.2	57.9	160	13.8
20760		18.70	0.13	3.1	0.048	1.60	5.7	19.1	1.01	637	5.46	2.99	5.5	54.1	150	11.0
20761		21.1	0.17	2.4	5.11	0.69	15.2	20.5	0.19	235	4.58	0.44	7.4	60.2	560	1045
20762		14.90	0.06	0.7	0.091	0.50	2.9	28.8	4.01	1960	1.31	0.92	2.0	111.5	260	4.3
20763		16.40	0.06	0.8	0.111	0.96	3.5	37.2	3.87	1905	2.21	1.10	2.0	114.0	280	8.3
20764		18.45	0.07	0.7	0.088	1.04	2.8	31.1	3.04	1610	5.17	1.70	2.2	98.4	310	4.6
20765		17.60	0.16	1.7	0.062	1.05	31.1	34.5	4.17	1330	0.61	2.54	3.1	195.5	940	10.6
20766		14.95	0.06	0.9	0.070	0.81	13.4	47.7	4.96	1940	0.56	1.41	2.0	159.0	500	10.5
20767		14.65	0.11	2.3	0.056	0.94	38.9	77.6	6.32	1430	0.66	1.34	3.4	364	1390	5.9
20768		19.20	0.07	1.0	0.078	1.35	2.4	65.1	2.97	1970	1.94	1.66	2.2	120.5	320	8.0
20769		17.00	0.05	0.7	0.075	0.22	2.7	24.7	3.92	1815	3.05	2.07	2.0	118.5	270	3.1
20770		19.90	0.10	4.2	0.097	1.06	27.6	30.7	3.05	1840	2.99	2.28	15.5	80.6	2590	12.7

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CERTIFICATE OF ANALYSIS SD22041348

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
20753		6.6	0.002	0.06	1.23	36.0	1	0.9	57.3	0.18	<0.05	0.34	0.604	0.09	0.2	288
20754		13.6	<0.002	0.06	1.15	33.8	1	0.7	49.2	0.14	<0.05	0.17	0.517	0.23	0.1	264
20755		4.8	0.002	0.14	1.45	39.2	1	0.8	65.5	0.14	<0.05	0.20	0.555	0.03	0.1	270
20756		2.8	0.002	0.13	1.37	33.8	1	0.9	61.5	0.16	<0.05	0.18	0.599	0.05	0.1	307
20757		15.4	0.003	0.08	1.45	30.8	1	0.7	90.3	0.17	<0.05	0.18	0.678	0.19	0.1	298
20758		16.4	0.002	0.08	3.79	34.0	1	0.9	132.0	0.16	<0.05	0.17	0.630	0.23	<0.1	303
20759		49.1	0.002	0.03	0.12	18.6	1	2.6	85.0	0.58	<0.05	5.35	0.320	0.33	1.9	136
20760		48.9	<0.002	0.03	0.10	16.8	1	2.4	80.3	0.63	<0.05	5.62	0.301	0.34	2.4	129
20761		27.1	<0.002	2.12	83.6	3.9	32	5.5	459	0.59	37.2	5.92	0.215	1.64	2.3	33
20762		27.0	0.002	1.00	1.57	36.8	2	1.1	120.0	0.13	0.25	0.21	0.501	0.22	0.1	255
20763		56.2	0.003	2.13	2.41	36.2	2	1.3	131.0	0.13	0.31	0.22	0.497	0.48	0.1	250
20764		39.1	0.004	0.56	2.06	42.2	1	0.8	238	0.14	0.06	0.19	0.573	0.37	0.1	294
20765		30.5	<0.002	0.53	1.81	38.9	1	0.9	631	0.19	<0.05	2.84	0.529	0.22	0.6	243
20766		38.7	<0.002	1.59	4.39	34.1	1	0.8	233	0.13	0.08	1.10	0.424	0.31	0.3	219
20767		40.3	<0.002	0.64	3.01	25.1	1	0.8	202	0.21	<0.05	4.27	0.443	0.35	1.1	178
20768		40.9	0.002	1.77	4.12	38.4	1	0.7	187.0	0.15	0.05	0.16	0.589	0.68	0.1	313
20769		10.2	0.002	0.18	1.33	42.6	1	3.7	136.5	0.12	<0.05	0.17	0.503	0.14	0.1	274
20770		34.1	0.002	0.26	0.41	35.5	1	3.3	375	0.89	<0.05	1.52	1.265	0.20	0.4	217



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CERTIFICATE OF ANALYSIS SD22041348

Sample Description	Method Analyte Units LOD	ME–MS61	ME–MS61	ME–MS61	ME–MS61	Ag–OG62	Cu–OG62	Ni–OG62	Au–ICP21	CRU–QC	PUL–QC
		W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Cu %	Ni %	Au ppm	Pass2mm %	Pass75um %
		0.1	0.1	2	0.5	1	0.001	0.001	0.001	0.01	0.01
20753		1.5	19.9	47	21.8						
20754		1.0	21.4	63	14.8						
20755		1.3	26.4	45	15.0						
20756		1.7	32.6	38	32.3						
20757		1.3	22.5	83	28.1						
20758		0.3	16.6	103	19.6						
20759		0.3	23.4	73	58.2						
20760		0.3	25.0	61	73.8						
20761		11.4	6.1	4050	83.1	117					
20762		1.0	19.7	139	18.2						
20763		1.2	17.9	217	25.1						
20764		1.4	17.4	124	20.2						
20765		1.3	19.4	118	63.2						
20766		1.8	16.6	114	40.6						
20767		1.4	18.6	101	89.4						
20768		2.3	17.2	112	31.8						
20769		1.0	19.9	92	17.3						
20770		1.1	36.1	141	183.5						

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CERTIFICATE OF ANALYSIS SD22041348

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	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.

Ag–OG62	Au–ICP21	Cu–OG62	ME–MS61
ME–OG62	Ni–OG62		



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CERTIFICATE SD22041355

Project: McAra Resource – MCD22-058
 P.O. No.: MCD22-058
 This report is for 66 samples of 1/2 Core submitted to our lab in Sudbury, ON, Canada on 17-FEB-2022.
 The following have access to data associated with this certificate:

PETER DOYLE FRANK PLOEGER	SEAN HICKS	KAJAL MAKWANA
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

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

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Signature: 
 Saa Traxler, Director, North Vancouver Operations



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CERTIFICATE OF ANALYSIS SD22041355

Sample Description	Method	WEI–21	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Units		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
LOD		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
20784		1.56	0.25	7.14	17.5	70	1.37	0.25	5.84	0.91	8.07	50.1	156	0.84	177.5	9.49
20785		1.07	0.31	7.13	14.2	50	2.25	0.31	5.80	0.91	10.60	48.2	141	0.81	143.0	9.69
20786		1.62	0.17	6.08	17.8	30	1.37	0.26	8.21	0.43	7.23	46.2	222	1.08	151.5	8.28
20787		2.35	0.11	7.23	2.4	180	0.44	0.22	6.74	0.26	5.56	47.4	284	2.14	102.0	8.25
20788		2.32	0.16	7.18	2.3	250	3.77	0.33	7.03	0.27	5.89	46.8	294	2.75	134.0	8.41
20789		2.37	0.44	7.55	3.1	270	8.75	2.78	6.25	0.33	14.30	37.2	247	4.17	305	6.83
20790		1.70	0.20	6.94	4.7	130	4.40	0.51	6.19	0.35	5.61	46.9	356	1.92	173.5	8.48
20791		1.05	3.58	6.75	18.0	30	5.16	9.60	6.03	0.37	8.06	37.8	171	0.86	448	6.63
20792		1.60	0.39	6.81	10.0	120	3.58	0.74	5.68	0.50	7.58	41.4	165	1.23	228	8.08
20793		2.01	0.23	6.85	7.6	130	2.65	0.31	5.90	0.84	9.64	48.3	198	1.15	175.5	8.18
20794		1.56	2.64	7.73	4.5	150	7.19	33.1	6.65	1.02	6.55	52.3	221	3.12	425	8.45
20795		2.39	0.11	7.60	68.4	150	0.75	0.20	5.87	0.24	21.8	46.5	155	1.84	87.6	8.24
20796		1.57	0.17	8.47	153.5	200	0.51	0.13	5.03	0.22	7.24	50.7	200	2.95	148.0	7.98
20797		0.99	0.41	8.41	687	210	0.65	0.24	2.91	0.35	9.54	50.2	182	3.57	155.0	7.08
20798		1.46	0.17	6.83	35.7	120	0.91	0.09	3.73	0.55	36.8	36.8	344	2.04	72.3	5.84
20799		0.88	0.10	6.79	15.0	100	1.09	0.04	4.85	0.16	41.9	41.6	408	2.38	47.0	6.11
20800		1.02	0.09	6.41	13.5	100	1.11	0.04	4.63	0.15	39.8	38.3	413	2.23	42.1	5.82
20801		0.07	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
20802		0.99	0.86	7.13	22.1	310	0.69	0.79	2.06	2.45	27.0	137.5	216	5.02	176.0	11.70
20803		1.51	0.32	7.39	21.8	320	0.83	0.38	3.87	0.41	17.15	34.2	126	4.83	152.0	5.92
20804		1.42	0.16	7.40	185.0	230	1.76	0.30	2.24	0.26	42.2	15.7	60	4.55	40.3	3.87
20805		2.40	0.98	7.17	310	240	0.70	0.45	2.95	0.69	19.30	64.6	132	4.83	306	10.30
20806		2.31	0.44	8.11	139.5	290	0.38	0.25	4.93	0.10	7.52	51.5	149	5.31	185.5	7.51
20807		2.34	0.52	7.40	63.9	280	0.37	0.23	3.98	0.14	6.19	51.1	154	4.26	199.5	6.93
20808		2.03	0.51	7.61	29.9	210	0.77	0.17	4.26	0.25	19.10	50.4	239	2.62	144.5	6.50
20809		2.01	0.67	6.59	51.1	120	1.09	0.14	3.36	1.14	36.4	44.9	425	2.04	450	7.14
20810		1.74	1.13	7.20	42.0	220	1.10	0.43	1.22	1.12	21.3	75.9	170	1.97	387	12.15
20811		2.10	1.87	7.61	52.8	180	0.83	0.31	0.68	6.52	43.9	53.2	250	2.27	347	9.14
20812		1.90	1.02	7.33	110.0	310	0.69	0.13	0.86	0.39	35.7	26.8	73	3.87	143.0	5.27
20813		1.72	1.02	7.57	386	340	0.55	0.18	1.17	0.60	31.3	40.9	105	4.71	168.5	5.07
20814		1.59	0.94	8.33	346	210	0.94	0.10	6.29	1.03	14.00	47.7	135	2.60	161.5	6.26
20815		1.96	0.68	7.87	603	260	0.45	0.15	2.78	0.16	18.95	57.8	163	2.71	134.5	7.30
20816		1.92	0.43	8.64	482	240	0.41	0.06	4.69	0.63	7.17	58.7	188	3.73	141.5	7.70
20817		2.23	0.72	7.85	934	320	0.73	0.20	5.06	0.11	6.83	45.7	157	5.63	146.0	7.11
20818		2.27	1.02	7.79	1885	240	0.59	0.20	5.96	0.22	7.08	56.8	147	4.44	150.0	7.94
20819		0.65	0.93	8.03	1515	370	0.48	0.22	4.12	0.20	7.75	58.5	169	4.62	121.5	7.13
20820		0.61	0.97	8.08	1445	390	0.51	0.20	4.10	0.29	7.63	55.0	174	4.61	134.5	6.93
20821		0.12	4.36	5.72	14.9	120	0.58	0.85	3.66	2.34	17.85	1045	282	0.77	>10000	19.15
R2960		1.61	2.73	5.08	846	170	0.30	0.84	4.00	0.28	17.55	81.2	113	3.23	413	16.00
20822		1.16	0.39	7.86	370	490	0.51	0.18	2.95	0.56	52.0	20.7	100	4.24	69.9	3.96



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CERTIFICATE OF ANALYSIS SD22041355

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		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
20784		16.50	0.09	0.9	0.077	0.43	2.8	53.5	4.40	1895	1.86	2.85	2.2	79.6	300	91.9
20785		16.75	0.08	0.7	0.089	0.32	4.2	68.4	4.52	1810	17.35	2.92	2.3	75.4	280	404
20786		14.65	0.06	0.5	0.055	0.18	2.8	64.7	5.01	1520	2.16	2.39	1.5	104.0	210	21.1
20787		15.30	0.08	0.7	0.054	0.76	1.8	37.4	4.71	1515	0.41	1.76	1.7	121.5	230	16.0
20788		14.90	0.08	0.5	0.078	1.11	2.0	34.2	4.78	1585	6.23	1.43	1.6	125.0	220	13.4
20789		17.85	0.09	1.0	0.092	1.21	4.3	36.2	3.90	1435	3.59	1.62	5.1	93.7	210	14.5
20790		15.40	0.11	0.5	0.077	0.80	1.8	57.4	4.79	1670	0.72	2.25	1.9	123.0	220	12.2
20791		15.30	0.08	0.8	0.107	0.21	2.8	51.3	3.56	1460	20.6	3.19	4.0	84.0	220	223
20792		15.80	0.08	0.9	0.079	0.67	2.5	48.5	4.14	1615	0.37	2.21	2.8	83.9	300	35.0
20793		16.10	0.09	0.8	0.074	0.73	3.7	61.8	4.30	1550	2.82	2.24	2.2	99.2	320	50.8
20794		19.30	0.08	0.6	0.236	0.72	2.4	98.9	4.38	1530	14.30	1.47	3.3	111.0	230	118.5
20795		17.85	0.10	0.9	0.071	0.82	8.1	40.7	3.45	1570	3.44	2.18	4.5	114.5	570	4.4
20796		19.05	0.09	0.7	0.080	1.01	2.5	44.3	2.36	2000	0.97	2.00	2.5	124.5	310	8.5
20797		19.15	0.12	1.1	0.077	1.11	3.6	62.2	2.05	1470	1.96	2.73	1.7	85.1	340	14.7
20798		16.55	0.09	2.9	0.051	0.40	17.2	89.3	4.21	1105	0.48	2.23	3.6	96.5	860	16.2
20799		16.65	0.11	3.1	0.039	0.27	19.3	113.5	5.46	1260	0.19	1.65	4.1	120.5	980	26.0
20800		15.65	0.11	2.9	0.037	0.27	18.3	106.5	5.20	1200	0.21	1.57	3.9	116.5	910	21.8
20801		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
20802		19.20	0.13	1.7	0.349	1.40	11.5	83.0	2.28	1220	2.64	1.23	2.9	113.0	430	25.9
20803		18.10	0.09	1.2	0.079	1.53	6.6	36.8	1.93	1365	2.09	1.33	3.1	71.2	360	13.2
20804		18.20	0.14	3.5	0.064	1.35	19.9	50.1	0.70	1060	2.11	1.92	6.2	29.7	610	9.2
20805		17.05	0.09	1.5	0.132	1.33	8.5	50.0	1.72	1595	2.28	1.32	2.5	109.5	350	16.7
20806		17.70	0.08	0.4	0.080	1.75	2.7	30.2	3.07	1725	0.57	1.33	2.2	105.0	310	14.2
20807		18.00	0.09	0.4	0.084	1.55	2.2	36.1	2.50	1540	0.49	1.66	2.2	110.5	310	14.9
20808		18.55	0.08	1.3	0.070	0.97	8.0	59.0	3.63	1455	1.69	2.17	2.8	125.5	530	39.5
20809		16.85	0.11	3.2	0.184	0.47	18.7	123.5	4.75	1200	0.78	2.27	3.9	123.5	880	79.3
20810		22.3	0.12	2.7	0.321	0.92	8.9	107.5	2.67	1285	2.09	2.16	4.3	117.0	610	130.5
20811		20.6	0.14	3.3	0.626	1.06	22.1	88.2	2.10	944	2.68	3.10	4.0	114.0	680	210
20812		17.75	0.11	3.5	0.082	1.99	19.5	53.1	1.14	665	2.42	2.79	3.7	51.4	560	26.2
20813		16.65	0.13	2.2	0.097	2.33	14.8	50.6	1.44	666	1.98	2.26	3.7	70.6	390	38.6
20814		18.00	0.09	1.0	0.099	1.10	5.8	67.4	2.48	1345	1.04	2.32	2.5	112.5	310	12.3
20815		17.10	0.08	1.4	0.106	1.35	8.0	54.4	2.28	1545	1.12	3.13	2.8	129.5	370	13.4
20816		18.30	0.08	0.6	0.082	1.38	2.6	73.8	2.75	2060	0.42	2.36	2.3	146.5	350	32.4
20817		18.35	0.09	0.5	0.107	1.76	2.6	46.6	2.69	1900	0.78	1.79	2.1	125.0	330	17.2
20818		17.65	0.07	0.6	0.115	1.22	2.9	35.0	3.22	2160	0.58	1.88	2.0	123.0	300	21.5
20819		18.35	0.08	0.5	0.135	1.55	3.2	53.1	2.84	1950	0.52	2.52	2.3	120.5	330	18.6
20820		18.35	0.07	0.5	0.128	1.63	3.1	51.7	2.85	1945	0.47	2.62	2.3	119.0	330	18.9
20821		13.20	0.22	1.3	0.146	0.34	7.5	9.8	4.21	1065	5.23	1.25	5.1	>10000	480	14.1
R2960		19.35	0.15	1.3	0.169	0.78	8.4	54.8	2.18	1250	2.57	0.93	1.9	141.5	240	44.4
20822		23.8	0.09	4.1	0.078	2.02	25.6	66.3	2.02	872	1.56	2.68	4.0	51.5	860	8.8



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To: NORTH AMERICAN COBALT – BATTERY
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 SUITE 400, 744 WEST HASTINGS STREET
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CERTIFICATE OF ANALYSIS SD22041355

Sample Description	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61
	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
Method Analyte Units LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
20784	28.9	<0.002	0.07	0.26	50.5	1	6.6	76.1	0.13	<0.05	0.21	0.551	0.23	0.1	311
20785	21.4	0.002	0.07	0.49	49.0	2	13.9	67.7	0.13	<0.05	0.20	0.547	0.22	0.1	307
20786	10.4	<0.002	0.04	0.18	37.5	1	3.6	34.0	0.09	<0.05	0.15	0.376	0.10	0.1	226
20787	50.8	<0.002	0.02	0.19	45.2	1	2.5	108.5	0.11	<0.05	0.16	0.459	0.30	<0.1	270
20788	91.0	0.003	0.04	0.19	44.4	1	13.4	91.4	0.10	<0.05	0.15	0.439	0.51	<0.1	261
20789	117.0	<0.002	0.05	0.25	38.9	1	27.2	120.5	2.65	0.08	1.49	0.377	0.67	1.5	219
20790	53.4	<0.002	0.03	0.15	39.0	1	22.7	84.6	0.18	<0.05	0.15	0.436	0.37	0.1	265
20791	17.4	0.002	0.10	0.20	35.4	1	32.9	38.7	0.95	0.30	0.56	0.380	0.24	0.5	211
20792	53.8	<0.002	0.06	0.22	43.6	1	13.8	80.3	0.19	<0.05	0.25	0.481	0.32	0.1	270
20793	48.5	<0.002	0.04	0.23	42.9	1	13.6	94.5	0.14	<0.05	0.35	0.483	0.33	0.1	265
20794	67.9	0.002	0.17	0.36	49.5	1	23.2	111.0	1.30	0.70	0.16	0.471	0.48	0.1	262
20795	51.1	0.002	0.11	1.98	38.3	1	2.3	146.5	0.37	<0.05	0.60	0.560	0.41	0.2	243
20796	43.8	0.002	0.35	3.20	38.4	1	1.2	144.0	0.20	0.09	0.20	0.595	0.56	0.1	279
20797	58.4	0.002	2.82	4.16	80.2	2	1.1	183.0	0.11	0.60	0.32	0.462	2.14	0.1	276
20798	19.6	<0.002	0.63	1.14	22.5	1	0.9	284	0.24	0.07	2.48	0.289	0.29	0.6	130
20799	10.3	<0.002	0.08	1.02	21.2	1	0.9	420	0.27	<0.05	2.82	0.309	0.17	0.7	121
20800	9.5	<0.002	0.07	0.97	19.2	1	0.9	405	0.26	<0.05	2.57	0.288	0.15	0.6	115
20801	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
20802	95.5	0.006	7.61	2.80	35.1	6	2.0	111.0	0.22	0.94	1.74	0.386	0.93	0.5	200
20803	71.3	<0.002	2.98	3.58	31.6	2	2.5	145.0	0.66	0.31	1.30	0.423	0.98	0.8	209
20804	94.1	<0.002	1.00	2.31	14.5	1	2.9	153.0	1.24	0.44	4.17	0.271	0.69	1.5	98
20805	84.4	0.007	5.48	3.27	30.3	4	1.8	117.0	0.18	0.79	1.49	0.366	0.84	0.4	183
20806	82.6	<0.002	4.14	4.11	42.5	1	1.7	132.5	0.14	0.33	0.20	0.561	1.31	0.1	281
20807	47.3	<0.002	4.09	3.42	39.3	1	1.5	121.5	0.13	0.41	0.15	0.564	1.22	0.1	283
20808	49.9	0.003	2.87	2.95	44.3	1	1.3	195.0	0.19	0.39	0.98	0.522	0.65	0.3	234
20809	17.4	0.006	1.65	1.98	22.2	2	1.8	216	0.25	0.12	2.54	0.309	0.40	0.7	119
20810	38.8	0.009	4.35	3.72	32.2	6	3.7	67.4	0.29	0.36	2.04	0.556	1.40	0.6	218
20811	35.4	0.012	3.53	1.54	23.3	4	3.0	74.0	0.29	0.40	3.45	0.311	0.63	0.9	134
20812	80.0	0.003	3.06	2.91	19.3	1	1.6	91.8	0.28	0.31	3.41	0.279	1.24	0.9	115
20813	79.7	0.004	2.57	3.59	21.9	3	1.8	81.9	0.31	0.49	3.16	0.328	1.32	0.8	145
20814	42.9	0.003	1.34	5.23	35.5	1	1.2	86.1	0.18	0.55	1.10	0.463	0.92	0.3	233
20815	53.5	0.002	2.19	8.84	42.1	2	1.3	123.5	0.22	0.37	1.63	0.480	1.27	0.4	241
20816	67.1	0.002	0.57	8.58	44.7	<1	0.9	132.0	0.15	0.16	0.23	0.632	0.68	0.1	305
20817	60.0	0.002	3.17	11.25	45.4	1	1.7	151.0	0.13	0.27	0.18	0.583	1.37	0.1	296
20818	64.0	<0.002	3.38	11.05	55.5	1	1.6	158.0	0.13	0.64	0.24	0.546	1.32	0.1	287
20819	53.9	0.002	2.85	8.80	46.2	1	1.0	177.5	0.14	0.58	0.20	0.623	1.56	0.1	302
20820	58.9	0.002	2.72	8.24	44.8	1	1.4	176.0	0.14	0.59	0.19	0.624	1.64	0.1	303
20821	10.6	0.052	8.24	3.37	9.2	24	2.6	191.0	0.30	4.47	1.04	0.558	0.19	0.3	82
R2960	36.5	0.033	>10.0	8.94	24.4	9	1.2	54.6	0.17	0.94	1.50	0.241	15.75	0.4	134
20822	70.9	0.003	0.57	2.78	15.2	<1	1.2	135.0	0.30	0.21	5.28	0.354	1.35	1.0	136

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



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To: NORTH AMERICAN COBALT – BATTERY
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CERTIFICATE OF ANALYSIS SD22041355

Sample Description	Method Analyte Units LOD	ME–MS61	ME–MS61	ME–MS61	ME–MS61	Cu–OG62	Ni–OG62	Au–ICP21	CRU–QC	PUL–QC
		W	Y	Zn	Zr	Cu	Ni	Au	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	%	%	ppm	%	%
		0.1	0.1	2	0.5	0.001	0.001	0.001	0.01	0.01
20784		1.0	22.7	310	18.1				75.2	95.2
20785		1.1	23.1	335	15.9					94.6
20786		1.1	17.9	175	15.4					
20787		0.7	17.3	98	14.7					
20788		1.2	17.3	134	12.4					
20789		0.8	37.9	134	15.5					
20790		0.6	17.3	129	13.2					
20791		0.9	24.6	145	20.8					
20792		3.0	23.7	171	24.9					
20793		7.4	18.6	247	23.2					
20794		112.0	19.0	253	16.0					
20795		1.0	24.0	132	29.2					
20796		0.8	18.9	139	20.6					
20797		0.9	18.6	196	39.4			0.010		
20798		0.7	14.2	266	112.5			0.002		
20799		0.5	14.5	115	123.5			0.003		
20800		0.5	13.5	112	117.5					
20801		NSS	NSS	NSS	NSS					
20802		0.9	19.8	985	69.3			0.021		
20803		0.7	18.5	205	35.6			0.010		
20804		1.2	21.0	165	139.0			0.029		
20805		3.3	17.5	311	58.4			0.022		
20806		4.7	19.3	121	10.0			0.017		
20807		4.3	17.3	116	9.0			0.020		
20808		1.3	18.6	152	50.5			0.032		
20809		1.0	14.6	473	124.0			0.056		
20810		3.2	22.9	493	109.5			0.021		
20811		3.0	16.9	2720	141.0			0.025		
20812		3.7	15.3	152	143.0			0.058	73.9	
20813		2.3	14.7	270	84.1			0.038		
20814		1.7	18.1	405	33.0			0.034		
20815		1.7	17.6	126	49.5			0.057		
20816		1.3	21.0	266	11.1			0.068		
20817		4.3	19.8	102	11.6			0.221		
20818		1.7	20.3	146	12.2			0.157		
20819		1.4	20.3	147	10.3			0.351		
20820		1.4	20.9	171	10.1					
20821		2.7	9.5	144	56.2	1.650	4.72			
R2960		1.1	12.6	140	55.9			0.442		93.7
20822		2.6	13.4	213	164.5			0.012	76.9	91.7



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CERTIFICATE OF ANALYSIS SD22041355

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
20823		2.10	0.26	7.22	438	350	0.50	0.08	1.44	0.70	46.3	19.0	173	2.10	59.1	4.76
20824		2.07	0.32	7.89	671	310	0.49	0.08	1.63	0.95	28.3	17.7	194	4.17	55.7	6.17
20825		0.56	0.01	0.12	1.8	30	<0.05	0.02	33.9	0.02	1.16	0.8	5	0.05	5.3	0.16
20826		1.95	0.30	7.58	555	280	0.44	0.08	2.94	1.43	26.6	24.8	206	3.27	47.9	5.02
20827		1.86	0.19	8.05	535	420	0.53	0.04	1.14	0.33	20.9	17.4	96	5.61	18.6	2.75
20828		2.05	0.33	7.76	2750	410	0.55	0.10	2.14	0.06	23.5	20.9	96	4.86	49.9	4.49
20829		2.03	0.54	8.09	1630	260	0.49	0.13	4.64	0.29	14.85	44.3	127	6.25	231	7.45
20830		1.81	0.41	8.30	234	190	0.47	0.06	2.11	0.23	8.04	55.6	66	1.70	150.0	2.77
20831		2.07	0.64	8.06	1895	250	0.56	0.11	5.35	1.56	7.83	50.7	112	3.26	146.0	7.87
20832		1.66	0.45	7.13	393	100	0.33	0.11	7.17	0.47	4.90	52.7	112	1.02	237	10.40
20833		1.94	0.56	7.53	124.5	140	0.39	0.17	6.61	0.45	5.52	57.8	120	1.51	268	9.54
20834		1.08	0.29	8.13	68.3	20	1.09	0.36	10.50	2.22	4.18	41.7	93	0.73	72.9	6.42
20835		1.58	0.16	7.23	51.2	90	0.69	0.29	7.01	0.44	5.00	52.2	119	1.06	69.3	9.00
20836		1.61	0.59	7.55	174.0	90	0.63	0.63	6.45	0.65	6.72	55.4	119	1.63	152.0	9.25
20837		2.09	0.83	7.39	57.7	60	0.73	0.72	7.58	1.04	5.33	50.4	110	1.11	243	10.30
20838		2.05	0.15	7.52	13.6	70	0.29	0.23	8.28	0.19	5.41	52.5	117	0.58	127.5	10.70
20839		1.03	0.24	7.56	120.5	270	0.33	0.25	7.36	0.19	5.21	55.0	114	2.09	152.5	8.65
20840		1.09	0.27	7.87	120.5	270	0.33	0.24	8.26	0.26	5.19	54.8	123	2.37	181.5	8.90
20841		0.12	4.28	5.64	13.7	120	0.54	0.81	3.60	2.20	17.40	1025	275	0.77	>10000	18.80
20842		2.67	0.38	6.90	48.3	330	0.59	0.52	9.13	0.43	5.50	44.2	114	1.46	239	9.36
20843		2.46	1.18	7.07	94.5	50	0.70	0.58	6.39	1.18	13.80	51.1	149	0.41	638	9.17
20844		2.03	0.44	7.08	27.1	60	2.31	2.01	6.86	0.11	15.40	51.6	119	0.49	171.5	8.88
20845		1.83	0.08	7.45	22.8	120	0.74	0.20	6.40	0.13	15.55	52.0	122	0.64	58.0	9.91
20846		2.00	0.07	6.97	16.0	110	0.96	0.20	6.42	0.13	13.85	45.8	119	0.68	119.0	9.29
20847		1.27	0.09	7.69	8.7	280	0.66	0.39	5.68	0.14	14.75	52.6	137	1.97	75.0	9.58
20848		2.01	0.06	6.85	15.6	90	0.70	0.12	6.69	0.08	13.90	41.9	110	0.63	59.7	8.51



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CERTIFICATE OF ANALYSIS SD22041355

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
20823		20.0	0.12	3.4	0.050	1.45	23.9	76.5	1.72	1370	2.87	3.09	3.8	56.7	720	26.5
20824		19.55	0.09	3.2	0.062	1.39	15.0	81.5	2.17	1760	2.60	2.53	3.6	57.4	580	33.8
20825		0.32	<0.05	0.1	0.012	0.02	1.3	1.4	1.66	125	0.28	0.05	0.1	<0.2	80	0.8
20826		18.60	0.07	2.7	0.073	1.43	13.2	63.5	2.37	1235	1.38	2.81	3.1	71.2	420	53.3
20827		19.05	0.08	2.6	0.044	2.39	11.0	65.1	1.22	699	2.43	2.36	2.7	38.4	500	20.7
20828		18.65	0.08	2.8	0.041	2.20	11.9	55.3	1.49	955	1.95	2.22	3.0	39.8	520	13.6
20829		21.6	0.07	1.1	0.089	1.47	6.3	74.1	2.89	1575	1.01	1.46	2.7	92.3	390	35.1
20830		21.6	0.08	1.0	0.075	1.58	3.1	48.3	0.98	763	1.18	4.82	2.6	57.3	470	96.8
20831		19.35	0.07	0.7	0.097	1.41	3.2	58.2	3.04	1655	0.82	2.31	1.9	78.1	360	174.5
20832		17.80	0.06	0.6	0.083	0.67	1.7	37.2	4.55	2010	0.26	2.08	1.3	87.2	280	49.7
20833		17.50	0.07	0.5	0.095	0.72	2.0	41.2	4.46	2020	0.25	2.35	1.4	93.3	290	50.1
20834		18.85	0.05	0.5	0.077	0.17	1.6	45.0	3.36	1590	0.26	2.04	1.0	72.5	230	97.4
20835		16.50	0.08	0.5	0.070	0.58	1.6	40.1	4.66	1950	0.24	2.03	1.3	97.7	290	26.7
20836		18.10	0.05	0.5	0.085	0.51	2.8	66.5	4.65	1875	16.65	2.46	1.2	97.7	310	56.5
20837		16.50	0.09	0.5	0.065	0.48	1.9	61.2	4.58	2150	1.92	1.87	1.3	89.8	290	82.3
20838		17.35	0.06	0.6	0.092	0.36	2.0	24.7	3.76	1950	0.25	1.96	1.3	89.8	270	2.9
20839		17.85	0.05	0.5	0.072	1.12	1.9	22.2	3.64	1875	0.28	1.91	1.3	96.1	270	7.2
20840		18.40	<0.05	0.5	0.076	1.15	1.9	22.6	3.78	1935	0.30	1.69	1.3	100.0	270	9.7
20841		12.60	0.21	1.4	0.132	0.33	7.3	8.8	4.13	1045	5.29	1.23	4.9	>10000	470	13.4
20842		13.85	0.10	0.4	0.074	1.01	1.8	28.1	4.02	2230	0.28	1.49	1.1	79.5	270	15.8
20843		15.15	0.09	0.9	0.075	0.30	5.3	31.0	3.65	1655	0.80	2.84	1.9	98.2	380	103.0
20844		17.50	0.09	1.0	0.079	0.30	5.6	28.8	3.17	1785	0.73	2.42	3.8	66.3	450	22.2
20845		16.20	0.08	1.1	0.076	0.41	5.5	27.7	3.62	2190	0.34	2.64	3.9	73.3	490	1.4
20846		15.35	0.10	1.0	0.074	0.41	5.0	20.9	3.48	2140	0.36	2.78	3.6	67.5	470	1.1
20847		17.15	0.09	1.0	0.081	0.86	5.0	27.8	3.36	2080	0.49	2.84	4.1	77.3	520	2.2
20848		14.85	0.10	0.9	0.065	0.30	5.0	22.5	3.56	1895	0.33	2.88	3.6	65.2	430	0.9



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CERTIFICATE OF ANALYSIS SD22041355

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
20823		53.3	<0.002	0.51	3.78	14.7	1	0.6	101.0	0.26	0.16	3.91	0.364	1.06	1.0	130
20824		65.5	<0.002	0.52	5.08	15.0	<1	0.8	101.0	0.24	0.09	3.28	0.351	0.99	0.9	132
20825		0.5	<0.002	0.01	0.08	0.4	<1	<0.2	82.1	<0.05	<0.05	0.08	0.010	<0.02	0.5	3
20826		57.2	0.002	0.41	4.16	20.6	1	0.8	102.5	0.20	0.08	2.48	0.319	0.89	0.7	136
20827		99.8	<0.002	0.24	2.24	10.6	<1	0.6	103.5	0.18	0.05	2.44	0.284	1.12	0.6	103
20828		81.9	<0.002	1.10	8.29	19.2	1	0.9	109.5	0.20	0.11	2.79	0.382	1.30	0.7	160
20829		63.7	<0.002	0.93	6.20	40.8	1	1.0	124.0	0.16	0.05	0.86	0.580	1.38	0.2	278
20830		53.7	0.002	0.08	1.53	54.0	1	1.3	86.5	0.16	<0.05	0.30	0.772	0.49	0.1	352
20831		62.7	<0.002	0.28	2.40	48.9	1	0.8	125.5	0.12	<0.05	0.33	0.610	0.50	0.1	323
20832		23.5	<0.002	0.11	1.48	46.5	1	0.6	86.7	0.08	<0.05	0.11	0.533	0.24	<0.1	298
20833		34.7	<0.002	0.06	1.32	50.5	1	1.5	143.5	0.08	<0.05	0.12	0.568	0.30	<0.1	313
20834		6.5	<0.002	0.04	0.52	35.8	<1	3.2	51.6	0.06	<0.05	0.10	0.435	0.08	<0.1	246
20835		35.0	0.002	0.04	0.80	46.1	1	4.9	123.5	0.08	<0.05	0.11	0.541	0.22	<0.1	307
20836		21.7	0.017	0.06	1.16	46.6	<1	2.4	128.5	0.07	0.19	0.10	0.525	0.19	<0.1	306
20837		15.1	0.003	0.39	1.36	47.4	2	5.0	51.6	0.08	0.14	0.10	0.525	0.21	<0.1	301
20838		13.6	<0.002	0.17	0.89	51.5	1	2.8	154.0	0.07	<0.05	0.10	0.541	0.15	<0.1	311
20839		63.3	<0.002	0.33	0.70	48.8	1	1.9	130.5	0.08	<0.05	0.11	0.551	0.38	<0.1	307
20840		67.5	<0.002	0.38	0.79	48.7	1	1.7	143.5	0.08	<0.05	0.11	0.560	0.40	<0.1	316
20841		10.4	0.051	7.89	3.22	8.7	21	2.6	188.5	0.31	4.42	1.06	0.551	0.19	0.3	81
20842		47.1	<0.002	0.33	0.62	38.9	1	2.9	167.0	0.08	<0.05	0.10	0.500	0.28	<0.1	280
20843		9.4	0.002	1.20	2.10	37.1	2	1.9	83.9	0.13	0.13	0.61	0.481	0.15	0.1	250
20844		11.3	<0.002	0.23	0.77	39.1	1	8.7	168.0	0.24	0.08	0.46	0.643	0.16	0.1	274
20845		22.9	<0.002	0.10	0.60	42.1	1	2.9	172.0	0.25	<0.05	0.50	0.691	0.17	0.1	294
20846		17.8	<0.002	0.11	0.63	38.3	1	6.2	170.5	0.23	<0.05	0.44	0.658	0.16	0.1	275
20847		32.5	<0.002	0.08	0.49	42.3	<1	1.6	203	0.26	0.05	0.48	0.740	0.26	0.1	310
20848		10.1	0.002	0.07	0.59	38.2	1	1.3	140.0	0.23	<0.05	0.43	0.631	0.07	0.1	269



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CERTIFICATE OF ANALYSIS SD22041355

Sample Description	Method Analyte Units LOD	ME–MS61	ME–MS61	ME–MS61	ME–MS61	Cu–OG62	Ni–OG62	Au–ICP21	CRU–QC	PUL–QC
		W ppm	Y ppm	Zn ppm	Zr ppm	Cu %	Ni %	Au ppm	Pass2mm %	Pass75um %
		0.1	0.1	2	0.5	0.001	0.001	0.001	0.01	0.01
20823		2.0	13.4	218	131.5			0.025		
20824		1.6	11.9	256	126.0			0.017		
20825		<0.1	2.1	5	2.0					
20826		1.5	10.2	419	101.0			0.013		
20827		3.1	8.1	126	97.0			0.011		
20828		4.4	13.0	52	105.0			0.324		
20829		2.4	21.2	149	40.1			0.207		
20830		2.5	22.4	77	32.1			0.015		
20831		2.2	21.8	454	18.5			0.109		
20832		1.6	22.2	173	10.4			0.023		
20833		1.5	22.0	195	9.6			0.006		
20834		2.7	17.2	583	10.0			0.024		
20835		24.8	20.4	165	9.3			0.009		
20836		2.4	21.2	199	8.3			0.110		
20837		2.4	20.7	317	11.1			0.102		
20838		1.2	23.8	120	9.0					
20839		1.7	20.8	97	8.0					
20840		1.6	21.6	119	7.8					
20841		4.9	9.2	142	55.5	1.640	4.73			
20842		1.6	20.7	156	8.3					
20843		1.8	18.4	358	35.4					
20844		6.0	20.7	81	30.9					
20845		2.8	22.2	99	37.6					
20846		2.6	20.5	93	35.0					
20847		1.9	21.6	109	34.1					
20848		2.9	20.2	71	31.5					



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CERTIFICATE SD22041359

Project: McAra Resource – MCD22-058A
 P.O. No.: MCD22-058A
 This report is for 13 samples of 1/2 Core submitted to our lab in Sudbury, ON, Canada on 17-FEB-2022.
 The following have access to data associated with this certificate:

PETER DOYLE FRANK PLOEGER	SEAN HICKS	KAJAL MAKWANA
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
Aq-OG62	Ore Grade Ag – Four Acid	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES

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, Director, North Vancouver Operations



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CERTIFICATE OF ANALYSIS SD22041359

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
20771		2.05	0.19	7.10	2.2	170	2.19	0.26	7.24	0.30	6.70	44.9	199	2.27	137.0	8.59
20772		2.38	0.21	7.10	1.8	150	0.36	0.16	6.95	0.37	7.35	46.7	198	1.68	208	8.97
20773		2.00	0.19	7.02	3.0	140	1.26	0.22	7.01	0.34	7.10	45.8	211	1.11	134.0	8.94
20774		1.58	0.20	6.93	3.7	140	1.41	0.18	6.18	0.63	7.13	47.3	160	0.89	156.5	9.56
20775		0.49	<0.01	0.07	0.2	10	0.06	0.01	32.0	0.02	0.93	0.7	3	<0.05	1.8	0.13
20776		1.08	0.29	6.83	8.1	110	1.12	0.41	5.51	0.51	8.66	44.8	174	1.04	175.0	9.83
20777		1.38	0.59	6.86	12.4	50	1.23	0.47	6.33	0.63	9.09	45.0	169	0.90	233	9.13
20778		1.06	0.27	6.81	2.8	150	1.91	0.34	6.52	0.34	7.51	48.9	163	1.03	172.0	9.57
20779		0.62	0.22	6.95	2.0	200	3.36	0.32	6.67	0.31	7.24	45.7	150	1.46	162.0	9.49
20780		0.67	0.26	7.02	2.1	200	3.24	0.32	6.70	0.33	7.49	45.1	155	1.41	193.5	9.64
20781		0.06	>100	4.26	669	520	0.71	58.3	0.64	25.8	32.0	9.1	34	2.66	5080	2.13
20782		2.18	0.35	7.22	2.5	170	0.86	0.39	7.03	0.37	8.12	47.2	157	1.67	171.0	9.64
20783		2.27	0.24	7.06	1.8	140	0.52	0.25	6.86	0.32	7.63	48.1	162	1.46	189.5	9.74



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
20771		15.40	0.05	0.6	0.072	0.87	2.3	33.7	4.08	1500	8.07	1.69	2.0	81.4	280	5.9
20772		15.00	0.05	0.8	0.068	0.75	2.6	30.9	4.29	1700	0.51	1.67	2.0	79.8	300	12.1
20773		15.00	<0.05	0.7	0.071	0.83	2.5	32.5	4.42	1730	1.44	1.90	2.0	83.3	280	50.6
20774		15.50	<0.05	0.8	0.086	0.76	2.4	32.1	4.49	2070	0.77	2.11	2.1	78.0	310	48.0
20775		0.24	<0.05	<0.1	<0.005	0.01	1.0	1.3	1.75	118	0.07	0.03	0.1	0.5	70	1.3
20776		15.50	<0.05	0.7	0.077	0.53	3.3	68.4	4.84	1915	3.93	2.59	2.2	80.2	310	92.8
20777		15.30	<0.05	0.6	0.092	0.39	3.5	57.7	4.49	1755	33.2	2.75	2.0	75.9	290	455
20778		15.55	<0.05	0.7	0.083	0.69	2.6	37.9	4.39	1865	61.2	2.02	2.1	78.7	290	47.1
20779		15.00	<0.05	0.7	0.079	0.84	2.5	32.0	4.07	1740	4.13	1.71	2.1	72.0	290	20.5
20780		15.05	<0.05	0.6	0.085	0.87	2.6	31.6	4.08	1790	1.79	1.68	2.1	71.0	290	18.4
20781		20.1	0.11	2.4	5.42	0.69	15.9	18.2	0.19	230	4.33	0.43	7.5	55.3	560	1015
20782		16.30	<0.05	0.7	0.085	0.78	2.8	27.6	4.28	1775	0.82	1.59	2.3	76.7	320	13.3
20783		15.85	<0.05	0.7	0.078	0.78	2.6	25.9	4.41	1820	0.58	1.82	2.2	78.1	310	16.7

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

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 Account: BMRPLLBW

Project: McAra Resource – MCD22–058A

CERTIFICATE OF ANALYSIS SD22041359

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
20771		57.8	<0.002	0.03	0.24	47.3	1	15.5	103.5	0.12	<0.05	0.19	0.509	0.43	0.1	284
20772		58.4	0.002	0.08	0.29	50.4	<1	1.5	112.5	0.13	<0.05	0.20	0.509	0.35	0.1	281
20773		51.4	<0.002	0.03	0.19	50.9	<1	4.2	79.9	0.12	<0.05	0.20	0.498	0.34	0.1	287
20774		45.1	0.002	0.05	0.22	49.5	1	5.7	89.9	0.13	<0.05	0.21	0.556	0.31	0.1	312
20775		0.3	<0.002	0.01	0.08	0.4	1	<0.2	78.4	<0.05	<0.05	0.05	0.006	<0.02	0.1	2
20776		31.7	0.002	0.07	0.26	51.8	<1	6.5	72.8	0.14	<0.05	0.20	0.577	0.27	0.1	316
20777		27.4	<0.002	0.07	0.77	51.6	<1	6.5	87.6	0.12	<0.05	0.19	0.530	0.29	0.1	297
20778		43.5	0.003	0.07	0.34	50.8	1	9.2	113.5	0.13	<0.05	0.19	0.542	0.29	0.1	311
20779		64.0	<0.002	0.04	0.27	51.1	<1	15.2	98.3	0.12	<0.05	0.20	0.573	0.39	0.1	310
20780		66.9	<0.002	0.05	0.26	50.6	1	15.0	98.9	0.13	<0.05	0.19	0.572	0.40	0.1	313
20781		28.5	<0.002	2.08	86.7	4.2	35	5.6	454	0.56	41.9	6.35	0.213	1.59	2.4	33
20782		60.5	<0.002	0.04	0.49	53.2	<1	4.3	104.5	0.14	0.09	0.23	0.590	0.34	0.1	322
20783		51.9	<0.002	0.09	0.34	50.8	<1	2.1	109.0	0.13	<0.05	0.21	0.560	0.34	0.1	315



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CERTIFICATE OF ANALYSIS SD22041359

Sample Description	Method Analyte Units LOD	ME–MS61 W ppm 0.1	ME–MS61 Y ppm 0.1	ME–MS61 Zn ppm 2	ME–MS61 Zr ppm 0.5	Ag–OG62 Ag ppm 1	CRU–QC Pass2mm % 0.01	PUL–QC Pass75um % 0.01
20771		1.1	20.0	118	13.5		75.5	95.8
20772		2.9	21.7	132	14.3			93.9
20773		1.0	19.6	148	16.8			
20774		0.6	21.9	242	23.8			
20775		<0.1	2.1	4	1.3			
20776		1.0	23.6	206	18.0			
20777		1.0	22.7	229	16.6			
20778		0.8	22.6	145	16.2			
20779		1.2	21.4	140	14.7			
20780		1.0	21.7	144	14.9			
20781		11.8	6.3	4060	88.2	118		
20782		13.4	23.2	143	18.7			
20783		0.7	22.5	140	16.0			



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CERTIFICATE OF ANALYSIS SD22041359

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 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.
Ag–OG62 ME–MS61 ME–OG62



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CERTIFICATE SD22064788

Project: McAra Resource-MCD22-059
 P.O. No.: MCD22-059
 This report is for 52 samples of 1/2 Core submitted to our lab in Sudbury, ON, Canada on 15-MAR-2022.
 The following have access to data associated with this certificate:

PETER DOYLE FRANK PLOEGER	SEAN HICKS	KAJAL MAKWANA
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
Aq-OG62	Ore Grade Ag – Four Acid	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
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, Director, North Vancouver Operations



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Project: Mc Ara Resource–MCD22–059

CERTIFICATE OF ANALYSIS SD22064788

Sample Description	Method	WEI–21	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Units		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
LOD		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
21301		1.35	0.10	7.16	4.0	20	1.70	0.14	4.07	<0.02	5.29	35.7	342	1.28	73.7	5.39
21302		0.84	0.03	6.07	1.5	10	1.19	0.14	5.04	<0.02	5.08	27.9	204	1.85	36.6	6.37
21303		2.06	0.09	8.08	3.0	290	2.37	0.27	7.00	0.11	4.99	44.9	293	5.08	114.5	7.59
21304		2.13	0.10	7.87	2.8	190	2.07	0.33	7.60	0.20	4.26	47.2	290	2.01	51.0	7.35
21305		2.23	0.11	7.21	8.8	140	1.77	0.23	5.48	0.70	6.02	53.2	271	2.32	89.1	8.06
21306		0.98	0.31	7.47	5.6	20	0.72	0.37	11.25	9.56	8.68	48.0	183	0.87	145.0	6.48
21307		2.00	0.12	6.91	1.3	110	0.34	0.23	5.57	0.36	4.56	60.4	197	1.81	109.0	8.40
21308		2.17	0.13	6.81	3.4	110	2.38	0.37	6.42	0.33	4.54	58.5	176	2.91	122.5	8.72
21309		1.09	0.43	6.61	6.0	160	5.38	6.77	5.55	0.21	4.85	47.7	142	4.64	61.1	7.41
21310		2.22	0.19	6.81	2.0	120	1.29	0.45	6.76	0.34	5.57	56.4	161	1.34	140.0	8.86
21311		2.91	0.43	7.54	219	180	0.40	0.12	6.11	0.69	6.60	53.7	188	1.71	198.5	9.33
21312		2.55	1.46	6.57	327	160	0.57	0.47	3.21	3.49	15.05	64.7	144	3.58	244	9.65
21313		2.39	1.02	7.09	258	150	0.47	0.34	2.30	17.05	8.39	66.9	186	3.01	173.5	9.03
21314		2.36	0.57	7.79	126.5	240	0.45	0.20	3.21	8.27	6.97	54.9	193	2.50	144.5	8.83
21315		2.49	0.36	8.15	161.0	180	0.53	0.09	2.06	14.10	13.30	48.6	183	2.08	74.5	8.48
21316		2.33	0.88	7.31	121.5	210	0.64	0.32	1.17	28.0	22.5	55.7	114	3.72	163.5	10.15
21317		2.69	0.73	7.19	47.1	200	0.70	0.75	0.68	5.19	23.0	103.5	149	4.11	485	13.15
21318		2.35	0.49	8.00	30.3	370	0.79	0.34	0.47	1.06	48.3	63.3	62	4.48	163.5	5.19
21319		1.10	3.92	6.22	34.1	140	0.74	0.93	0.41	5.16	29.9	144.5	101	3.36	406	14.90
21320		1.20	1.36	6.59	51.1	150	0.66	0.98	0.39	4.29	35.4	146.5	94	3.50	566	13.75
21321		0.11	4.14	5.60	14.4	70	0.59	0.82	3.51	2.20	18.20	987	286	0.74	>10000	18.50
21322		2.40	1.59	5.62	26.2	140	1.01	1.43	0.51	4.72	27.4	160.5	143	3.37	584	17.75
21323		2.19	0.51	7.37	19.8	250	1.03	0.64	1.09	4.00	35.9	54.3	109	4.35	193.5	7.28
21324		2.20	4.00	4.91	320	40	0.70	4.25	0.23	4.16	8.72	188.5	123	1.32	1645	21.7
21325		0.75	0.01	0.16	0.4	40	0.13	0.03	33.1	0.03	1.25	1.2	3	0.08	7.0	0.23
21326		2.13	5.20	5.31	176.0	50	0.83	1.78	0.28	2.79	10.25	193.0	122	0.67	1760	19.30
21327		1.88	7.24	6.98	676	120	0.92	4.16	0.29	12.25	31.6	116.5	109	1.88	4510	12.05
21328		2.08	1.56	7.91	32.4	250	0.97	0.18	0.31	9.26	47.8	31.7	63	3.29	184.5	5.33
21329		2.11	1.09	7.01	245	250	0.67	0.11	0.28	12.35	41.7	11.6	42	3.24	119.0	3.87
21330		2.23	0.95	8.14	771	320	0.70	0.08	0.35	3.29	34.8	14.3	43	4.19	128.0	4.98
21331		2.18	1.48	7.39	1120	220	0.73	0.15	0.48	1.53	33.7	29.7	70	2.90	173.5	7.64
21332		1.91	1.58	7.84	9970	480	0.92	0.18	0.78	3.43	14.45	52.8	145	5.64	169.5	7.37
21333		1.63	1.48	7.75	8530	350	0.52	0.14	2.33	1.29	13.10	58.3	166	5.67	144.5	6.22
21334		2.58	1.28	7.67	1395	260	0.56	0.10	3.53	2.16	6.51	50.4	183	3.35	144.0	6.69
21335		2.14	1.21	8.02	896	210	0.45	0.08	3.19	0.89	6.31	50.9	194	2.48	137.5	6.16
21336		2.52	1.14	8.34	1065	240	0.39	0.07	3.31	0.28	6.74	52.5	179	3.92	162.0	6.81
21337		2.33	0.96	7.64	1460	400	0.51	0.20	3.93	0.28	7.16	46.9	168	6.02	155.0	6.65
21338		1.81	1.03	7.79	3880	370	0.54	0.30	1.37	0.78	8.31	81.8	185	5.34	188.0	9.66
21339		0.55	2.86	4.93	588	130	0.39	0.48	0.26	0.80	8.81	104.0	137	3.08	464	23.0
21340		0.70	3.36	4.94	612	100	0.33	0.45	0.26	0.51	9.03	103.0	128	2.92	563	23.0



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Project: Mc Ara Resource-MCD22-059

CERTIFICATE OF ANALYSIS SD22064788

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
21301		11.70	0.10	0.7	0.062	0.07	2.5	106.5	3.57	651	0.47	3.54	1.1	116.0	200	1.5
21302		15.15	0.08	0.5	0.077	0.03	2.3	116.5	4.77	1125	0.47	2.12	0.8	100.5	150	1.2
21303		14.15	0.08	0.5	0.069	1.49	1.9	67.5	4.99	1305	8.54	1.48	1.5	158.0	230	4.0
21304		14.00	0.08	0.5	0.053	0.86	1.5	72.5	5.01	1280	2.71	1.65	1.4	166.0	190	5.8
21305		14.20	0.10	0.9	0.059	0.52	2.0	96.9	5.57	1645	0.29	2.24	1.6	200	210	121.0
21306		15.90	0.10	0.5	0.055	0.18	3.9	52.6	4.72	1390	1.96	1.20	1.2	159.0	190	614
21307		13.95	0.09	0.4	0.048	0.51	1.5	85.4	5.94	1630	0.25	1.84	1.4	243	210	24.6
21308		13.80	0.09	0.7	0.059	0.60	1.6	62.1	5.74	1545	5.71	1.51	1.4	241	210	11.5
21309		13.55	0.09	0.9	0.088	0.79	1.9	57.5	4.98	1365	151.5	1.55	1.8	192.5	190	17.8
21310		14.30	0.09	0.9	0.076	0.66	1.9	40.1	5.38	1545	33.0	1.41	1.6	216	250	7.7
21311		14.80	0.07	0.7	0.084	1.06	2.3	29.4	4.74	1835	2.14	1.73	1.7	166.0	260	84.5
21312		14.45	0.10	1.1	0.114	0.85	6.1	49.2	2.76	1325	19.35	1.50	2.0	120.5	290	235
21313		16.05	0.09	1.0	0.173	0.84	3.3	52.8	2.49	1290	6.46	2.64	1.8	120.0	280	348
21314		16.40	0.10	0.9	0.152	1.16	2.5	46.1	2.34	1860	1.19	2.03	1.6	110.5	280	320
21315		17.00	0.09	1.3	0.087	1.03	5.4	61.7	2.15	1875	0.94	2.99	2.3	93.9	360	655
21316		16.25	0.12	1.8	0.126	1.16	9.3	62.6	1.92	1020	1.25	2.36	2.9	98.1	380	1045
21317		21.0	0.13	2.0	0.505	1.70	11.4	77.7	1.92	909	2.12	1.14	2.3	125.0	320	343
21318		19.40	0.15	4.3	0.161	2.61	23.6	34.2	0.47	203	2.00	1.81	2.8	68.8	500	35.7
21319		14.45	0.17	2.6	0.506	1.61	14.5	45.4	0.68	359	3.03	1.54	1.8	162.0	300	34.0
21320		15.55	0.16	2.7	0.430	1.77	17.1	46.6	0.69	361	3.05	1.66	1.9	140.5	340	37.0
21321		11.25	0.26	1.3	0.129	0.32	7.2	10.6	4.04	1005	4.78	1.21	4.8	>10000	480	13.2
21322		10.75	0.19	2.5	0.511	1.43	12.9	38.2	0.56	311	5.01	1.34	1.8	252	230	31.6
21323		18.75	0.13	2.7	0.508	1.89	19.0	66.6	1.28	567	3.56	1.23	2.0	79.3	440	35.2
21324		14.40	0.15	1.6	0.413	0.38	4.0	68.6	1.33	723	3.47	1.50	2.1	243	210	830
21325		0.45	0.07	0.1	0.005	0.03	1.3	2.1	2.05	116	0.11	0.05	0.2	1.6	80	1.7
21326		12.35	0.14	1.9	0.178	0.22	4.8	54.9	1.00	552	5.44	2.53	2.7	229	230	1130
21327		18.45	0.12	2.7	0.653	0.92	15.4	63.7	1.42	663	3.06	2.90	3.6	125.0	370	1970
21328		16.65	0.12	3.9	0.155	2.05	23.8	60.3	1.12	543	1.88	2.87	4.4	52.2	620	1625
21329		14.50	0.11	3.6	0.184	2.09	21.4	51.7	1.03	577	1.35	2.50	3.6	24.2	620	1770
21330		17.25	0.12	4.0	0.096	2.41	17.3	63.9	1.33	788	1.39	2.41	4.1	30.8	790	529
21331		16.05	0.12	2.9	0.100	1.82	16.8	59.4	1.39	1025	1.28	2.68	3.3	71.9	530	399
21332		16.75	0.12	1.5	0.126	2.86	5.5	75.9	1.74	1245	0.90	1.77	2.5	96.6	440	736
21333		16.55	0.11	0.8	0.075	2.51	4.7	68.7	2.19	1465	0.57	1.98	2.4	114.0	360	223
21334		16.05	0.12	0.4	0.095	1.91	2.3	42.7	2.75	2060	0.40	2.41	2.1	125.5	330	206
21335		16.75	0.09	0.5	0.094	1.44	2.1	42.8	2.34	1740	0.34	3.44	2.2	122.0	340	47.3
21336		17.90	0.10	0.4	0.090	1.64	2.4	71.3	2.87	1930	0.27	2.70	2.2	114.0	330	26.7
21337		17.50	0.13	0.6	0.074	3.38	2.6	41.2	2.62	1670	0.37	2.00	2.2	105.5	330	56.6
21338		17.60	0.13	0.4	0.092	2.98	3.2	58.3	1.69	966	0.35	2.05	2.0	123.5	410	127.0
21339		13.15	0.16	1.6	0.112	0.89	3.6	61.1	1.60	912	3.19	0.83	2.7	216	250	313
21340		12.90	0.13	2.1	0.118	0.92	3.6	58.4	1.46	826	3.60	0.90	2.8	217	310	375



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CERTIFICATE OF ANALYSIS SD22064788

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
21301		4.1	<0.002	0.02	0.17	32.9	<1	7.5	60.3	0.08	<0.05	0.14	0.349	0.04	0.3	221
21302		2.2	<0.002	0.01	0.25	28.1	<1	1.4	27.2	0.05	<0.05	0.10	0.231	0.03	0.1	158
21303		72.0	0.002	0.03	0.21	34.2	<1	5.6	105.0	0.10	<0.05	0.13	0.397	0.54	0.1	230
21304		42.7	<0.002	0.01	0.18	34.8	<1	4.6	128.5	0.09	<0.05	0.12	0.375	0.32	<0.1	220
21305		35.5	<0.002	0.03	0.27	27.0	<1	3.2	147.0	0.34	<0.05	0.42	0.383	0.24	0.2	228
21306		7.9	0.002	0.17	0.28	30.8	1	0.8	45.3	0.08	<0.05	0.14	0.338	0.06	0.1	193
21307		33.0	<0.002	0.03	0.26	28.2	1	0.9	108.5	0.08	<0.05	0.11	0.361	0.20	<0.1	222
21308		35.0	<0.002	0.04	0.37	31.4	<1	8.7	76.2	0.09	<0.05	0.13	0.395	0.25	<0.1	239
21309		79.8	0.002	0.02	0.51	29.6	<1	13.2	77.2	0.17	<0.05	0.15	0.336	0.43	0.1	196
21310		35.2	0.006	0.02	0.48	26.0	<1	6.5	95.4	0.11	<0.05	0.18	0.421	0.28	0.1	242
21311		61.9	0.002	0.64	3.96	40.9	1	1.5	98.3	0.11	0.23	0.19	0.470	0.52	<0.1	266
21312		50.1	0.006	4.06	6.53	31.9	3	1.3	99.1	0.14	1.02	0.95	0.376	1.16	0.3	208
21313		21.3	0.023	4.05	4.62	42.5	5	1.5	122.5	0.13	1.25	0.44	0.454	2.31	0.2	266
21314		43.9	0.013	2.73	4.02	41.3	3	1.0	120.0	0.12	0.72	0.30	0.453	1.44	0.1	286
21315		38.0	0.002	1.17	2.53	33.3	2	1.0	142.5	0.15	0.20	0.83	0.534	1.28	0.2	244
21316		37.8	0.008	5.37	3.98	28.4	5	1.4	98.7	0.21	0.78	1.73	0.372	2.74	0.5	174
21317		91.6	0.036	8.46	4.42	35.3	10	2.2	48.9	0.16	1.10	1.56	0.327	1.05	0.5	190
21318		75.4	0.007	3.69	2.07	13.2	6	1.6	72.1	0.21	0.32	4.17	0.215	1.66	1.1	75
21319		59.9	0.033	>10.0	2.24	13.5	15	2.0	44.9	0.14	0.71	3.09	0.160	0.99	0.9	75
21320		68.5	0.028	9.73	2.69	13.1	13	2.1	47.5	0.14	0.72	3.41	0.164	1.04	1.0	71
21321		10.6	0.049	8.22	2.85	8.9	22	2.5	186.0	0.30	4.51	1.05	0.537	0.16	0.3	81
21322		51.7	0.077	>10.0	1.91	19.4	19	2.4	48.9	0.14	0.92	3.32	0.178	0.82	1.0	102
21323		92.3	0.011	4.25	2.82	22.5	6	1.8	75.6	0.17	0.21	3.72	0.199	1.07	0.9	118
21324		20.8	0.043	>10.0	16.70	22.1	20	2.3	18.4	0.17	0.66	2.00	0.232	0.75	0.6	128
21325		1.2	<0.002	0.04	0.06	0.5	1	<0.2	93.6	<0.05	<0.05	0.10	0.011	<0.02	0.2	3
21326		8.9	0.113	>10.0	13.25	20.6	23	2.7	35.1	0.20	0.58	2.78	0.227	1.35	0.8	105
21327		36.7	0.038	8.03	6.71	19.6	9	3.3	50.9	0.28	0.32	3.02	0.289	2.28	0.8	127
21328		76.0	0.004	2.84	2.48	14.3	2	2.8	65.6	0.32	0.20	3.88	0.297	1.08	0.9	97
21329		79.1	<0.002	1.70	2.06	9.7	1	1.3	64.8	0.29	0.14	3.84	0.222	1.02	0.9	70
21330		96.2	<0.002	2.02	2.77	13.0	1	1.5	59.4	0.31	0.15	3.89	0.277	1.11	0.9	91
21331		66.6	0.002	4.60	4.88	18.6	1	1.4	70.3	0.25	0.34	2.88	0.270	1.38	0.7	120
21332		106.0	<0.002	4.48	20.2	30.2	1	1.4	89.9	0.18	0.49	1.15	0.465	1.50	0.3	218
21333		78.5	0.002	3.08	14.85	47.1	2	1.1	125.5	0.16	0.86	0.51	0.554	1.22	0.1	268
21334		56.3	0.002	2.48	6.63	46.3	1	1.1	113.0	0.13	0.47	0.16	0.583	0.89	0.1	302
21335		44.8	0.002	1.94	5.97	42.1	1	0.8	144.0	0.14	0.39	0.18	0.610	0.62	0.1	306
21336		62.5	<0.002	2.31	5.89	44.8	1	0.6	141.5	0.13	0.45	0.19	0.611	0.74	0.1	315
21337		89.9	0.003	3.63	5.60	38.6	2	1.7	119.0	0.14	0.26	0.22	0.584	2.05	0.1	292
21338		77.0	0.002	5.98	9.33	51.3	3	2.2	94.9	0.12	0.30	0.15	0.540	1.61	0.1	300
21339		39.9	0.055	>10.0	14.75	20.5	14	2.5	17.2	0.19	0.84	1.79	0.301	0.60	0.5	134
21340		36.2	0.066	>10.0	14.90	18.0	14	2.5	19.3	0.20	0.90	2.43	0.271	0.58	0.6	115



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		W	Y	Zn	Zr	Ag	Cu	Ni	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	ppm	%	%	%	%
		0.1	0.1	2	0.5	1	0.001	0.001	0.01	0.01
21301		3.8	7.2	41	18.0				72.0	97.5
21302		1.3	9.2	72	14.1					93.9
21303		1.1	14.3	75	13.1					
21304		1.3	13.5	84	9.9					
21305		0.8	22.0	233	20.7					
21306		2.3	16.2	2510	13.2					
21307		0.5	13.6	150	10.2					
21308		0.6	13.4	120	18.0					
21309		0.8	15.2	105	25.9					
21310		0.5	16.2	118	25.6					
21311		0.8	18.3	267	17.8					
21312		1.2	17.9	1135	42.0					
21313		2.2	16.4	5160	32.2					
21314		1.2	19.0	2500	27.7					
21315		2.0	17.0	3150	46.6					
21316		0.6	16.2	6030	69.0					
21317		0.7	20.9	1675	74.1					
21318		0.7	11.0	415	162.0					
21319		5.6	9.6	2180	95.1					
21320		1.0	10.2	1770	105.5					
21321		2.4	9.1	142	49.0		1.625	4.72		
21322		1.8	10.8	2060	88.0					
21323		1.2	13.8	1805	102.5					
21324		1.4	10.2	1485	59.7					
21325		<0.1	2.3	11	1.9					
21326		1.6	13.6	924	72.9					
21327		2.2	14.2	3950	103.5					
21328		3.3	14.4	3080	155.5					
21329		3.3	10.8	4090	145.0					
21330		3.5	16.8	1115	158.5					
21331		2.3	13.7	534	118.5					
21332		2.6	16.7	1175	57.4					
21333		2.1	18.3	474	23.9					
21334		1.9	19.1	535	9.2					
21335		0.7	18.7	327	11.2					
21336		1.7	20.3	142	8.8					
21337		4.8	17.2	166	14.8					
21338		4.4	18.3	267	11.4					
21339		3.3	9.7	249	60.7					95.1
21340		3.2	9.9	176	74.4				76.5	97.0



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		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
21341		0.06	>100	4.54	719	550	0.77	60.3	0.64	26.9	31.6	9.8	31	2.60	5180	2.27
21342		2.19	1.22	7.57	340	400	0.80	0.13	2.30	1.16	53.0	22.2	73	5.47	64.5	4.96
21343		0.93	0.96	7.51	1950	340	0.53	0.15	1.75	1.31	50.7	20.3	116	5.39	92.0	5.66
21344		2.34	1.14	7.77	6270	440	0.75	0.15	1.35	1.64	44.6	25.8	164	5.28	73.2	6.97
21345		2.48	1.00	8.25	3150	410	0.73	0.07	1.28	0.76	23.1	28.7	261	7.59	44.5	5.09
21346		2.00	0.83	8.16	3360	450	0.58	0.04	0.60	1.10	20.9	20.5	223	6.15	31.2	3.87
21347		2.23	0.70	7.85	2570	370	0.51	0.06	1.65	0.75	22.8	24.3	107	6.44	34.1	4.12
21348		1.16	0.26	7.66	14.5	140	2.67	4.78	6.82	0.55	8.65	50.4	114	1.43	102.0	8.00
21349		1.91	0.32	7.86	140.5	140	0.76	0.35	4.64	0.38	39.4	50.3	114	0.36	158.0	5.64
21350		2.10	0.12	7.54	9.8	110	1.03	0.27	6.33	0.27	23.1	43.4	124	1.07	103.0	7.70
21351		1.36	0.16	7.43	5.4	290	1.46	0.39	6.22	0.30	5.94	46.8	121	1.32	150.0	8.34
21352		2.20	0.20	7.60	8.0	120	0.28	0.26	8.13	0.54	5.50	46.7	116	0.89	154.0	8.72

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		Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
		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
21341		20.5	0.16	2.6	5.52	0.69	15.6	22.4	0.19	235	4.61	0.46	7.3	62.7	600	1050
21342		17.10	0.13	3.4	0.087	2.26	24.7	62.3	2.04	875	1.65	1.87	3.8	64.7	820	179.0
21343		16.85	0.14	3.5	0.051	2.32	21.9	51.8	1.64	774	1.12	0.90	3.8	66.9	880	174.5
21344		17.55	0.13	3.4	0.056	2.44	22.1	82.6	1.78	1400	1.26	1.34	2.9	73.2	700	245
21345		18.05	0.12	2.7	0.040	2.89	10.0	75.7	1.30	1200	1.41	1.03	2.1	79.2	470	206
21346		18.40	0.10	2.7	0.049	3.10	9.6	67.9	0.96	663	0.84	1.29	1.8	56.1	470	128.5
21347		17.40	0.13	2.4	0.042	2.52	10.4	60.6	1.07	827	1.51	1.58	2.3	44.9	540	109.0
21348		17.15	0.11	0.7	0.071	0.82	2.9	37.0	4.13	1515	33.0	1.98	3.2	85.2	280	17.3
21349		16.50	0.13	3.0	0.038	0.82	19.3	64.1	2.99	1040	0.55	4.25	4.1	50.7	1120	9.7
21350		15.65	0.12	1.4	0.074	0.60	9.0	44.6	3.85	1525	0.37	3.18	2.3	73.9	620	18.0
21351		16.70	0.06	0.5	0.072	1.14	2.1	36.6	4.01	1690	0.60	2.43	1.4	81.8	300	8.8
21352		16.90	0.06	0.5	0.064	0.50	1.8	30.7	3.83	1880	0.28	2.27	1.3	88.0	290	13.7

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		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
21341		29.1	<0.002	2.22	86.9	4.2	32	5.9	473	0.55	42.0	6.43	0.222	1.65	2.4	35
21342		77.9	0.002	2.29	3.25	16.7	1	1.1	126.5	0.27	0.26	5.20	0.317	1.07	1.1	137
21343		88.2	<0.002	2.99	6.22	15.0	1	1.1	87.6	0.25	0.14	5.53	0.356	1.09	1.0	149
21344		87.8	<0.002	3.23	9.26	14.4	1	1.0	96.7	0.19	0.24	4.21	0.338	1.23	1.0	129
21345		116.0	<0.002	1.96	4.92	20.0	1	0.8	90.9	0.14	0.11	2.82	0.313	1.08	0.7	145
21346		117.5	<0.002	1.41	3.55	15.9	1	0.8	66.4	0.11	0.05	2.72	0.302	0.98	0.8	126
21347		90.8	0.002	1.38	3.01	14.8	1	0.7	96.4	0.15	<0.05	2.52	0.314	0.78	0.7	133
21348		45.6	0.004	0.15	0.47	46.2	1	10.3	142.0	1.62	0.11	0.44	0.525	0.37	0.3	290
21349		22.5	<0.002	0.16	1.50	27.4	<1	1.0	74.2	0.25	0.05	3.00	0.505	0.27	0.8	206
21350		31.7	<0.002	0.05	0.26	41.8	<1	3.2	146.0	0.14	<0.05	1.26	0.535	0.20	0.4	277
21351		59.8	0.002	0.06	0.52	43.7	<1	7.9	149.0	0.09	<0.05	0.14	0.548	0.40	<0.1	309
21352		24.5	<0.002	0.11	0.44	41.9	1	0.9	117.0	0.08	<0.05	0.13	0.536	0.16	<0.1	298

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		W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Cu %	Ni %	Pass2mm %	Pass75um %
		0.1	0.1	2	0.5	1	0.001	0.001	0.01	0.01
21341		11.7	6.1	4250	84.7	116				
21342		1.5	15.3	381	144.5					
21343		2.9	16.5	431	147.0					
21344		2.5	14.4	621	123.0					
21345		3.1	9.9	348	94.8			84.7		
21346		5.2	9.0	414	94.6					
21347		4.3	9.5	253	88.5					
21348		78.8	24.7	167	17.8					
21349		3.2	18.2	120	110.0					
21350		1.7	21.8	135	49.8					
21351		7.4	20.7	116	11.6					
21352		1.9	20.4	168	9.0					

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



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Project: McAra Resource-MCD22-059

CERTIFICATE OF ANALYSIS SD22064788

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



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CERTIFICATE SD22064791

Project: McAra Resource-MCD22-060
 P.O. No.: MCD22-060
 This report is for 40 samples of 1/2 Core submitted to our lab in Sudbury, ON, Canada on 15-MAR-2022.
 The following have access to data associated with this certificate:

PETER DOYLE FRANK PLOEGER	SEAN HICKS	KAJAL MAKWANA
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
Aq-OG62	Ore Grade Ag – Four Acid	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	
As-OG62	Ore Grade As – Four Acid	

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

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

Signature: 
 Saa Traxler, Director, North Vancouver Operations



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CERTIFICATE OF ANALYSIS SD22064791

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
21353		2.20	1.24	7.41	155.0	170	0.58	0.21	4.69	0.68	8.13	67.9	231	2.24	274	11.45
21354		2.34	2.25	6.53	255	90	0.63	0.87	0.64	0.64	9.57	127.5	142	2.61	300	16.70
21355		1.40	3.61	4.16	491	30	0.26	1.05	0.29	0.06	15.90	204	132	1.06	1500	26.6
21356		1.52	0.59	7.89	171.0	230	0.79	0.16	1.92	1.31	9.04	60.8	207	4.23	170.5	9.03
21357		1.63	1.01	6.87	360	160	0.75	0.53	0.73	0.23	19.35	85.5	174	3.39	423	10.95
21358		0.90	0.43	7.68	66.8	320	0.99	0.12	0.84	1.43	49.0	19.1	43	3.78	79.0	4.08
21359		1.00	0.57	8.02	119.5	300	0.85	0.23	0.90	0.62	28.6	41.6	123	4.26	199.5	6.96
21360		1.00	0.71	7.75	117.0	280	0.88	0.29	0.89	0.23	29.6	50.8	119	4.36	213	8.42
21361		0.11	4.03	5.42	13.9	80	0.57	0.82	3.51	2.02	17.10	956	274	0.70	>10000	18.20
21362		2.10	0.78	7.94	212	300	0.75	0.17	1.02	0.54	18.10	48.2	149	4.26	213	6.10
21363		2.13	0.57	7.40	322	370	0.51	0.16	2.67	0.24	8.96	43.4	153	3.94	159.5	7.63
21364		1.72	0.94	8.16	87.2	360	1.09	0.40	1.09	0.35	11.05	56.5	196	5.16	262	8.58
21365		1.60	4.55	6.52	151.5	70	0.70	3.98	0.30	1.24	29.6	100.5	87	1.36	4160	11.55
21366		2.16	3.44	7.07	283	120	0.77	0.73	0.35	2.95	26.3	92.1	129	1.62	2100	9.68
21367		1.99	1.48	7.42	1070	260	0.89	0.20	0.35	9.95	36.6	20.4	47	2.80	779	4.32
21368		2.19	2.70	6.94	3200	70	0.94	0.46	0.40	2.16	70.8	87.0	65	1.09	2960	5.22
21369		1.74	7.80	6.75	2350	80	1.21	0.19	0.38	5.28	10.70	66.3	102	1.19	457	11.40
21370		1.61	3.08	7.23	1415	190	1.11	0.16	0.41	14.75	11.60	52.4	153	2.41	338	10.40
21371		1.84	2.47	7.41	549	250	1.32	0.16	0.38	23.2	16.30	40.2	122	2.86	307	6.18
21372		1.70	1.28	7.13	824	270	1.15	0.18	0.42	13.70	28.7	45.2	106	4.93	160.0	5.66
21373		1.57	0.82	8.23	1435	620	0.75	0.16	3.58	0.18	10.70	47.1	180	7.56	126.5	6.86
21374		2.02	0.84	8.00	1160	440	0.57	0.14	4.49	0.35	8.00	47.9	168	3.11	119.5	7.42
21375		0.49	0.01	0.09	4.5	20	0.05	0.02	32.4	0.02	0.99	1.1	2	<0.05	2.4	0.19
21376		2.17	1.72	6.09	1360	180	0.51	0.54	1.20	0.32	9.32	85.8	157	2.91	155.0	17.50
21377		2.09	2.59	1.00	441	20	0.22	0.34	2.35	0.48	9.82	43.9	86	0.49	303	10.90
21378		2.23	1.52	6.76	697	410	0.67	0.59	2.80	0.59	43.5	22.2	126	3.25	119.5	4.50
21379		0.89	0.38	8.08	1390	550	0.66	0.08	2.19	0.28	30.2	19.4	204	5.58	60.3	6.55
21380		0.55	0.42	7.86	1770	560	0.67	0.09	2.13	0.17	31.3	22.6	193	5.33	56.2	6.74
21381		0.06	>100	4.43	704	730	0.77	61.2	0.65	25.6	30.7	9.2	34	2.54	5260	2.21
21382		1.15	0.36	8.10	304	540	0.67	0.08	2.07	0.44	24.4	17.7	183	4.75	51.0	4.35
21383		1.15	0.75	7.64	162.5	650	1.03	0.22	2.98	0.22	60.1	35.1	133	2.54	160.5	8.07
21384		1.20	0.97	5.79	331	200	0.44	0.34	0.82	9.51	21.6	59.1	177	1.97	549	12.65
21385		1.71	0.57	7.71	451	670	0.56	0.38	2.02	1.25	10.50	41.8	191	4.88	318	7.43
21386		1.67	1.63	4.29	3400	130	0.38	0.59	0.31	0.75	17.75	120.5	128	3.82	520	23.7
21387		1.38	1.09	6.84	5760	220	0.55	0.32	0.54	0.13	32.9	63.1	58	3.68	216	12.10
21388		2.37	0.36	8.10	3510	680	0.63	0.11	1.39	0.36	43.3	21.2	174	4.87	50.9	4.39
21389		2.62	0.58	7.78	>10000	380	0.51	0.19	3.52	0.18	26.3	27.1	224	3.41	59.5	6.92
21390		2.50	0.27	7.41	3210	590	0.48	0.06	3.33	0.18	19.80	22.6	232	3.78	33.5	4.91
21391		2.58	0.16	7.70	253	30	1.88	0.37	7.67	<0.02	6.24	133.5	118	1.20	237	6.41
21392		1.19	0.07	8.14	97.5	90	1.72	0.21	3.61	0.02	6.38	48.8	155	1.79	219	8.08



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CERTIFICATE OF ANALYSIS SD22064791

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
21353		15.45	0.10	0.8	0.086	0.77	3.5	52.5	4.06	1570	0.91	2.24	1.9	161.0	270	1130
21354		15.30	0.14	1.5	0.103	0.76	4.0	82.5	1.58	712	1.70	2.09	2.0	197.0	280	799
21355		12.60	0.17	1.3	0.141	0.25	6.0	55.5	1.19	591	2.02	1.39	2.1	322	210	329
21356		16.45	0.06	0.8	0.195	1.49	3.6	69.2	1.82	1165	0.63	1.95	1.6	124.5	280	248
21357		14.90	0.10	2.0	0.123	0.96	7.9	71.5	1.46	882	1.83	2.27	2.1	123.0	300	105.0
21358		16.20	0.09	3.8	0.081	1.66	24.6	57.2	1.03	609	1.05	2.52	3.2	28.3	710	400
21359		17.15	0.10	1.9	0.113	1.64	15.1	71.7	1.65	888	1.08	2.60	2.5	70.1	460	95.1
21360		16.75	0.10	1.9	0.103	1.59	16.1	70.9	1.58	893	1.06	2.30	2.3	80.6	440	68.2
21361		10.55	0.26	1.2	0.113	0.31	6.6	9.4	3.99	980	4.53	1.19	4.6	>10000	470	12.8
21362		16.45	0.08	1.8	0.141	1.89	6.8	70.0	1.39	780	0.86	2.43	2.4	107.0	440	44.7
21363		14.40	0.08	0.5	0.075	1.72	3.6	54.2	2.78	1605	0.42	2.33	2.2	91.6	340	204
21364		16.50	0.08	0.4	0.072	2.05	4.9	88.9	2.45	1065	0.84	2.42	2.0	116.5	330	224
21365		15.60	0.11	2.4	0.399	0.40	13.7	77.2	1.61	665	2.52	3.17	3.3	123.5	400	511
21366		16.45	0.11	2.3	0.169	0.65	12.6	70.8	1.42	525	2.22	3.67	2.6	125.0	370	1220
21367		15.15	0.09	3.5	0.217	1.82	17.2	65.5	1.43	626	1.16	3.15	4.4	31.2	680	2890
21368		14.05	0.11	3.0	0.169	0.58	37.1	81.5	1.83	795	3.17	3.64	4.0	36.3	550	3410
21369		15.50	0.09	1.7	0.274	0.79	4.3	83.8	2.56	954	1.72	2.99	2.8	104.5	420	5700
21370		17.00	0.07	0.9	0.420	1.26	4.6	114.5	3.31	1210	1.20	1.99	2.0	115.5	290	2160
21371		14.65	0.08	1.9	0.334	1.89	6.2	96.9	2.51	877	1.34	2.61	2.9	80.4	370	7140
21372		15.75	0.09	2.1	0.147	1.64	12.5	77.2	1.94	709	1.91	2.18	3.0	76.5	370	1560
21373		18.55	0.10	0.6	0.109	3.48	4.4	65.4	2.76	1860	0.35	1.18	2.5	106.5	340	66.6
21374		15.30	0.09	0.5	0.129	2.26	3.1	48.1	3.47	2160	0.26	2.33	2.1	106.0	320	105.0
21375		0.24	<0.05	<0.1	<0.005	0.02	1.1	1.3	2.43	143	0.06	0.03	0.1	1.0	70	2.7
21376		14.10	0.14	1.3	0.101	1.51	3.5	57.6	1.87	1345	1.68	1.12	2.5	178.0	300	161.5
21377		3.46	0.06	0.3	0.108	0.08	5.2	7.5	0.74	739	1.26	0.04	0.6	97.2	270	98.2
21378		14.60	0.09	2.8	0.063	1.84	20.9	55.0	2.04	1080	1.60	1.43	2.9	57.7	700	123.5
21379		17.75	0.08	3.1	0.044	2.46	13.8	77.2	1.62	1485	0.99	1.34	3.3	60.4	600	93.5
21380		16.60	0.09	2.8	0.048	2.51	14.4	71.6	1.69	1460	0.83	1.24	3.1	68.7	590	79.3
21381		19.30	0.14	2.4	5.29	0.70	15.3	20.4	0.19	233	4.28	0.46	7.2	58.9	580	1035
21382		18.05	0.09	2.7	0.047	2.61	10.4	66.9	1.16	1020	1.04	1.62	2.9	48.3	570	43.6
21383		18.20	0.11	2.9	0.120	1.33	26.2	66.5	3.17	1080	1.22	3.29	4.7	48.6	1120	36.7
21384		18.35	0.11	1.8	1.170	0.83	8.0	48.8	2.18	997	5.16	2.08	3.6	108.0	270	68.6
21385		16.05	0.10	0.4	0.108	2.90	4.3	39.6	2.53	1100	0.32	2.76	2.1	94.5	310	43.3
21386		14.60	0.16	1.6	0.266	0.94	6.8	53.4	1.09	825	3.48	0.48	2.8	222	230	119.5
21387		16.30	0.12	3.0	0.127	2.17	14.9	64.4	1.39	779	2.20	1.88	4.1	95.9	520	78.2
21388		17.45	0.10	3.1	0.059	2.97	21.1	57.2	1.41	830	0.93	1.90	3.0	50.8	720	51.0
21389		17.55	0.09	2.1	0.057	1.99	13.1	49.0	2.00	1360	1.34	0.92	2.3	83.7	410	24.4
21390		17.00	0.09	2.1	0.041	2.92	8.3	47.7	1.89	1475	0.78	1.01	2.2	73.4	390	26.8
21391		16.15	0.06	0.5	0.056	0.16	2.8	87.4	3.77	855	0.95	3.65	1.2	82.4	280	6.8
21392		19.75	0.07	0.6	0.084	0.45	2.6	92.9	4.53	1120	0.34	3.64	1.6	104.5	350	2.0



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CERTIFICATE OF ANALYSIS SD22064791

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
21353		38.7	0.009	2.52	5.91	43.8	3	0.9	100.5	0.14	0.62	0.54	0.472	0.36	0.2	264
21354		42.6	0.026	>10.0	10.45	34.8	10	1.5	44.1	0.16	1.45	1.72	0.256	0.63	0.4	188
21355		12.6	0.011	>10.0	22.1	25.1	13	1.8	11.2	0.17	0.85	1.57	0.228	0.31	0.4	137
21356		67.3	0.003	3.46	4.34	40.0	3	1.3	97.5	0.11	0.40	0.32	0.446	0.83	0.1	280
21357		53.8	0.015	7.62	3.77	39.6	8	1.1	75.4	0.16	1.06	2.20	0.269	0.63	0.6	178
21358		77.0	<0.002	2.34	2.05	8.9	2	1.0	103.0	0.26	0.34	4.21	0.216	0.99	0.9	71
21359		73.7	0.003	3.45	2.92	31.7	2	1.6	101.5	0.17	0.59	2.12	0.402	1.06	0.5	205
21360		75.9	0.004	5.03	3.87	31.3	3	1.6	92.9	0.17	0.81	2.06	0.378	1.26	0.5	195
21361		10.0	0.050	8.07	2.82	8.3	21	2.3	182.0	0.27	4.28	1.01	0.518	0.16	0.3	78
21362		90.1	0.003	3.39	2.21	39.2	2	1.2	121.0	0.18	0.99	1.52	0.406	1.00	0.4	236
21363		64.0	<0.002	3.72	5.19	39.8	1	1.6	108.0	0.14	1.00	0.45	0.530	1.28	0.1	255
21364		83.9	0.003	4.56	4.58	47.1	2	2.4	95.7	0.12	0.62	0.25	0.567	1.80	0.1	302
21365		15.8	0.024	8.61	8.28	21.2	10	2.8	54.3	0.26	0.45	3.24	0.259	1.64	0.8	109
21366		31.9	0.030	8.02	6.79	25.3	10	2.9	62.4	0.19	0.29	2.50	0.281	0.48	0.7	139
21367		72.1	<0.002	2.14	3.16	11.5	1	1.6	63.7	0.34	0.13	3.97	0.266	1.00	1.0	84
21368		21.1	0.002	1.52	5.25	14.7	1	1.8	47.7	0.33	0.32	3.44	0.294	0.71	0.8	101
21369		9.1	0.007	6.84	11.40	35.3	3	1.1	53.2	0.20	0.69	1.27	0.333	2.32	0.4	158
21370		33.1	0.032	4.64	5.12	45.9	3	1.1	51.2	0.14	0.36	0.71	0.382	1.46	0.3	236
21371		63.4	0.006	2.74	4.28	27.3	2	1.3	58.3	0.23	0.24	2.41	0.338	1.62	0.5	178
21372		70.2	0.012	3.16	4.35	24.1	2	1.2	77.9	0.25	0.30	3.23	0.270	2.27	0.8	128
21373		126.5	<0.002	3.20	6.39	43.5	2	2.0	125.0	0.16	0.41	0.50	0.576	1.82	0.1	292
21374		96.4	<0.002	2.98	5.08	48.8	1	1.3	156.5	0.12	0.63	0.23	0.588	1.34	0.1	305
21375		0.8	<0.002	0.02	0.07	0.4	1	<0.2	78.2	<0.05	<0.05	0.06	0.007	<0.02	0.1	2
21376		74.0	0.023	>10.0	4.84	31.7	10	1.9	70.3	0.17	0.98	1.28	0.398	0.84	0.3	188
21377		4.2	<0.002	9.66	4.11	6.3	3	0.9	18.9	<0.05	0.73	0.42	0.043	0.15	0.3	27
21378		69.1	<0.002	1.51	2.89	15.6	1	1.0	111.5	0.19	0.55	4.80	0.307	0.60	0.9	126
21379		93.2	<0.002	2.56	3.14	14.6	1	0.8	137.0	0.22	0.07	3.68	0.355	0.95	0.9	132
21380		98.5	<0.002	2.86	3.37	15.0	1	0.8	127.5	0.22	0.09	3.76	0.338	0.93	0.9	129
21381		28.2	<0.002	2.16	86.0	4.1	34	5.5	462	0.55	41.1	6.11	0.219	1.62	2.4	33
21382		96.2	0.002	1.46	2.13	12.4	<1	0.8	109.0	0.19	<0.05	2.95	0.320	1.00	0.8	116
21383		39.7	0.009	2.27	3.02	27.7	2	1.6	273	0.29	0.10	3.52	0.513	0.57	0.9	197
21384		33.8	0.045	7.85	3.51	34.0	7	2.1	49.8	0.27	0.46	2.72	0.381	0.43	0.7	187
21385		87.7	0.002	3.96	3.25	41.5	4	3.0	79.5	0.13	0.22	0.29	0.576	1.26	0.2	277
21386		47.4	0.055	>10.0	6.52	20.6	17	1.7	26.3	0.22	1.40	2.11	0.258	0.76	0.5	118
21387		92.7	0.020	8.49	8.25	12.5	6	1.4	74.3	0.32	0.90	3.61	0.265	1.02	0.9	82
21388		130.0	<0.002	1.64	7.82	13.2	1	0.9	118.0	0.20	0.41	4.54	0.330	1.28	0.9	119
21389		66.6	<0.002	3.30	20.3	19.5	1	0.8	134.0	0.14	0.37	2.31	0.282	0.82	0.6	136
21390		80.5	<0.002	1.66	6.87	17.7	<1	0.7	139.5	0.14	0.11	2.12	0.283	1.18	0.6	126
21391		5.9	<0.002	0.05	0.22	39.6	1	0.9	70.2	0.07	<0.05	0.11	0.495	0.06	0.1	292
21392		8.2	0.002	0.04	0.29	49.6	1	1.5	101.5	0.11	<0.05	0.12	0.634	0.14	0.1	360



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CERTIFICATE OF ANALYSIS SD22064791

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	As-OG62	Cu-OG62	Ni-OG62	CRU-QC	PUL-QC
		W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	As %	Cu %	Ni %	Pass2mm %	Pass75um %
		0.1	0.1	2	0.5	1	0.001	0.001	0.001	0.01	0.01
21353		1.2	20.1	293	27.4					72.2	86.4
21354		0.9	15.5	269	63.8						96.9
21355		0.7	20.7	48	57.8						
21356		0.7	16.7	544	27.8						
21357		0.9	16.6	126	84.2						
21358		0.6	13.1	616	168.5						
21359		0.5	18.3	298	81.1						
21360		0.6	17.9	137	77.5						
21361		2.0	8.7	136	53.7			1.670	4.78		
21362		0.9	17.5	282	71.7						
21363		0.5	20.7	254	19.2						
21364		1.5	20.8	237	11.4						
21365		2.0	12.6	376	104.0						
21366		2.0	15.6	782	95.8						
21367		3.1	15.4	2980	159.5						
21368		2.1	19.5	713	132.0						
21369		2.7	12.9	1920	77.2						
21370		2.7	13.7	5060	34.4						
21371		2.6	16.2	7630	71.9						
21372		3.1	16.4	4500	85.7						
21373		2.4	21.9	215	20.0						
21374		0.9	21.6	230	10.7						
21375		<0.1	2.5	6	1.4						
21376		1.1	15.1	149	42.7						
21377		0.4	6.3	165	16.2						
21378		1.1	12.2	218	125.0						92.5
21379		1.7	12.3	123	127.0						95.1
21380		1.6	11.6	101	119.0						
21381		11.8	6.0	4180	87.7	120					
21382		3.1	9.9	170	110.0						
21383		2.7	21.4	96	126.0						
21384		5.8	20.4	2840	75.7						
21385		2.0	18.4	408	11.3						
21386		2.5	12.2	155	68.4						
21387		2.8	15.0	66	144.0						
21388		2.0	12.3	121	131.0						
21389		2.2	10.1	76	87.5		1.350				
21390		1.7	8.5	92	83.4						
21391		2.3	13.3	46	10.9						
21392		1.8	17.8	58	10.9						



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CERTIFICATE OF ANALYSIS SD22064791

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



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CERTIFICATE SD22041362

Project: McAra Resource – MCD22-061
 P.O. No.: MCD22-061
 This report is for 108 samples of 1/2 Core submitted to our lab in Sudbury, ON, Canada on 17-FEB-2022.
 The following have access to data associated with this certificate:

PETER DOYLE FRANK PLOEGER	SEAN HICKS	KAJAL MAKWANA
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Co-OG62	Ore Grade Co – Four Acid	
Cu-OG62	Ore Grade Cu – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	
Zn-OG62	Ore Grade Zn – Four Acid	
As-OG62	Ore Grade As – Four Acid	

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

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

Signature: 
 Saa Traxler, Director, North Vancouver Operations



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CERTIFICATE OF ANALYSIS SD22041362

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
20849		0.99	0.36	6.69	6.7	70	5.42	2.88	2.46	1.20	24.5	13.8	147	2.39	36.5	2.61
20850		1.02	0.20	7.36	9.6	60	4.62	0.52	6.64	0.18	7.71	41.0	287	3.08	61.4	6.69
20851		2.09	0.12	7.36	5.2	310	0.84	0.33	7.16	0.11	5.47	50.9	210	3.64	87.4	7.11
20852		2.11	0.13	6.43	22.8	160	2.46	0.57	5.67	0.20	4.46	64.6	161	4.65	51.2	8.51
20853		1.84	0.10	5.68	88.8	120	0.90	0.31	5.56	0.19	11.80	41.2	127	1.42	129.5	7.91
20854		2.02	0.22	6.40	127.0	80	0.30	0.15	5.79	0.54	5.39	56.2	146	1.06	196.5	8.26
20855		2.07	0.13	6.76	80.3	80	0.45	0.13	6.20	0.33	4.82	57.0	182	1.20	89.3	8.61
20856		2.03	0.14	7.17	122.5	50	3.24	0.17	4.64	0.40	10.65	38.3	125	1.21	63.9	6.04
20857		1.98	0.08	6.47	126.5	50	1.06	0.16	6.26	0.19	5.32	62.7	168	1.55	45.1	9.00
20858		2.68	0.12	7.19	139.5	130	0.55	0.12	6.94	0.18	6.11	56.1	189	1.54	140.0	9.38
20859		1.06	0.14	7.30	153.0	150	0.34	0.12	5.95	0.10	5.70	53.6	201	1.00	173.0	8.76
20860		1.31	0.17	6.85	139.0	140	0.31	0.11	5.48	0.11	5.80	49.6	193	0.97	256	8.25
20861		0.12	4.06	5.45	12.6	120	0.56	0.92	3.57	2.07	17.45	988	275	0.73	>10000	18.15
20862		2.40	0.17	7.84	93.0	230	0.37	0.16	4.77	0.11	9.32	46.0	209	2.92	205	8.24
20863		2.37	0.21	7.36	178.0	120	0.37	0.21	4.04	0.08	15.15	43.9	172	2.60	278	7.83
20864		2.51	0.12	7.41	119.0	200	0.37	0.09	4.59	0.35	5.67	46.0	207	2.36	137.5	7.02
20865		2.39	0.11	7.76	198.0	280	0.54	0.53	4.40	0.19	6.64	58.8	223	2.24	93.8	7.52
20866		2.46	0.20	8.13	126.0	240	0.54	0.31	4.86	0.24	10.95	54.0	193	2.47	126.5	7.66
20867		2.23	0.39	7.54	111.5	310	0.70	0.33	1.60	0.17	30.3	54.2	99	3.26	256	7.11
20868		1.66	0.51	7.29	115.5	250	0.83	0.26	1.23	0.94	22.4	46.8	109	1.57	280	5.07
20869		1.09	0.25	7.23	183.5	250	1.00	0.29	2.48	0.22	9.33	59.7	158	1.40	167.0	7.49
20870		1.42	0.22	7.71	204	180	0.74	0.15	5.02	0.17	9.43	54.8	166	1.39	151.5	6.85
20871		2.14	0.22	8.28	327	190	0.54	0.10	5.77	0.55	7.40	60.3	181	1.26	150.5	7.82
20872		2.30	0.18	7.95	264	200	0.48	0.08	6.28	0.24	12.80	51.8	159	1.67	140.5	7.35
20873		1.98	0.25	7.94	252	160	2.08	0.52	4.21	0.56	6.37	55.8	183	2.78	95.4	6.75
20874		2.00	0.22	8.08	373	170	0.88	0.48	6.40	0.19	8.01	65.4	160	1.51	120.5	8.16
20875		0.54	<0.01	0.14	3.6	20	0.05	0.01	31.3	<0.02	0.99	1.3	4	0.05	2.0	0.20
20876		2.21	0.28	7.35	885	270	0.52	0.18	4.63	0.28	17.05	47.1	134	2.27	134.5	6.67
20877		1.96	0.17	7.96	1090	280	0.81	0.10	3.83	0.17	45.6	14.4	47	5.38	43.6	4.07
20878		1.91	0.21	7.25	103.0	390	0.97	0.08	2.85	0.30	43.1	13.6	41	3.18	52.9	4.44
20879		0.76	0.44	7.60	202	440	1.14	0.08	2.30	1.32	44.5	15.7	39	5.20	52.8	4.90
20880		0.92	0.23	7.76	178.5	460	1.18	0.07	2.77	0.73	44.3	12.4	42	4.99	21.8	4.59
20881		0.02	0.75	6.91	2.0	250	1.12	0.06	5.49	0.72	37.4	>10000	178	0.69	1845	7.09
20882		2.10	0.25	7.84	85.8	330	0.95	0.09	2.54	0.13	47.0	36.1	40	5.48	46.1	4.09
20883		0.90	2.24	7.30	344	300	1.23	1.33	1.25	0.48	35.1	103.5	49	4.36	2300	5.66
20884		1.08	0.85	7.62	895	310	1.18	1.63	3.09	0.26	21.1	47.4	130	4.11	309	7.02
20885		2.03	0.60	8.33	4480	370	0.89	0.89	3.52	0.35	8.12	70.1	195	3.92	133.0	7.59
20886		2.22	0.26	8.27	1265	190	1.65	0.75	3.35	0.20	7.24	54.0	199	3.52	165.5	7.41
20887		2.58	0.37	7.96	844	200	1.32	1.69	4.96	0.16	6.86	52.0	186	3.94	255	7.67
20888		2.17	0.35	8.31	1320	240	1.48	0.91	4.16	0.12	7.54	53.3	185	3.03	181.5	7.33

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Sample Description	Method Analyte Units LOD	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
20849		20.8	0.14	1.5	0.036	0.29	6.0	59.9	1.61	1090	1.21	4.14	18.3	49.9	100	266
20850		16.70	0.11	0.8	0.078	0.44	2.6	127.0	5.07	1325	4.68	2.28	4.7	149.0	170	24.6
20851		14.60	0.11	0.6	0.070	1.35	2.1	101.0	5.39	1130	0.76	0.99	1.5	209	200	33.6
20852		12.70	0.10	0.6	0.067	0.73	1.5	118.0	6.49	1415	0.82	1.4	293	190	3.4	
20853		15.35	0.09	1.2	0.094	0.82	4.6	90.5	4.80	933	0.38	1.36	2.5	148.5	350	1.6
20854		13.50	0.09	0.5	0.080	0.59	1.8	37.9	5.54	1435	0.23	1.59	1.5	201	210	22.6
20855		14.15	0.08	0.7	0.068	0.53	1.6	37.4	5.64	1505	13.70	1.68	1.7	217	220	21.3
20856		15.15	0.11	2.6	0.055	0.50	3.4	49.3	4.09	987	3.09	2.92	8.7	154.0	150	26.7
20857		14.30	0.09	0.7	0.078	0.45	1.7	61.9	5.95	1565	1.03	1.80	1.8	247	220	2.1
20858		14.15	0.10	0.8	0.080	0.82	2.1	32.0	5.32	1675	0.38	1.62	1.9	202	250	3.0
20859		14.70	0.09	0.6	0.062	0.92	2.0	25.4	3.71	1490	0.21	2.62	1.7	158.0	260	1.6
20860		14.05	0.10	0.6	0.068	0.86	2.0	24.0	3.51	1430	0.19	2.42	1.7	147.5	250	1.6
20861		11.20	0.36	1.2	0.123	0.32	7.0	9.2	4.05	1000	5.38	1.20	4.8	>10000	470	12.6
20862		15.75	0.10	0.6	0.073	1.34	3.7	40.3	2.99	1250	0.44	2.23	2.0	169.0	280	4.4
20863		15.55	0.10	1.2	0.072	0.76	5.8	38.1	1.63	1005	1.24	2.05	2.4	129.5	320	7.1
20864		15.70	0.08	0.6	0.075	1.11	1.8	36.5	1.70	1275	0.50	2.00	1.9	136.5	300	4.2
20865		16.00	0.10	0.6	0.088	1.34	2.3	41.3	2.48	1330	2.07	2.89	1.9	140.0	290	2.3
20866		16.95	0.11	0.7	0.098	1.54	4.2	32.3	2.72	1600	1.01	2.39	2.4	124.0	330	18.1
20867		17.10	0.13	2.2	0.085	1.77	14.0	50.0	1.52	893	2.07	2.59	3.3	96.6	440	16.8
20868		17.05	0.16	1.6	0.088	1.43	9.8	54.6	1.54	671	1.09	3.34	2.9	85.2	360	95.7
20869		19.80	0.11	0.8	0.077	1.23	3.3	85.7	2.64	1300	2.09	2.20	2.8	122.0	390	10.8
20870		17.40	0.11	0.7	0.071	1.12	3.4	35.1	2.23	1760	0.77	2.43	2.6	125.5	390	9.9
20871		17.00	0.08	0.6	0.086	1.33	2.6	33.1	2.67	2030	0.34	2.27	2.1	141.0	310	19.3
20872		16.60	0.11	1.0	0.079	1.36	4.7	27.4	2.76	1625	0.49	1.67	2.5	118.0	360	12.7
20873		17.40	0.11	0.6	0.088	1.29	2.5	93.2	3.99	944	0.36	2.17	2.2	134.5	300	75.8
20874		17.00	0.11	0.7	0.081	1.31	3.1	58.3	4.23	1620	0.63	1.67	2.2	127.5	310	18.8
20875		0.36	0.09	0.1	0.011	0.02	1.1	1.8	3.03	173	0.10	0.04	0.1	1.2	80	<0.5
20876		16.80	0.09	1.4	0.102	1.80	6.8	35.7	2.34	1555	0.64	1.42	3.0	95.8	370	6.9
20877		17.40	0.10	3.7	0.069	1.35	22.3	27.7	0.90	1000	1.31	2.11	5.7	22.5	680	14.0
20878		15.50	0.07	3.5	0.061	1.66	21.7	40.5	0.83	1005	5.43	1.50	5.4	25.0	630	29.8
20879		17.35	0.10	3.8	0.056	2.23	22.1	59.1	1.35	897	1.38	1.52	5.7	22.3	640	311
20880		17.80	0.10	3.8	0.042	2.21	22.4	56.4	1.24	931	1.13	1.53	5.7	21.9	650	111.0
20881		17.80	0.09	3.1	0.062	0.67	18.3	7.1	3.62	954	2.65	2.14	21.2	>10000	1400	17.4
20882		17.30	0.10	4.0	0.052	2.09	23.1	40.8	0.78	854	1.73	1.42	5.9	45.4	730	12.9
20883		16.50	0.08	3.5	0.123	1.90	17.3	57.3	1.13	948	3.68	1.90	5.1	43.0	640	192.5
20884		17.45	0.07	1.6	0.083	1.96	9.9	63.2	2.06	1350	0.96	1.62	3.4	81.1	450	88.7
20885		18.55	0.07	0.5	0.092	2.48	2.8	65.7	2.78	1640	0.53	1.81	2.3	118.5	340	59.7
20886		17.55	0.06	0.5	0.077	1.69	2.5	82.7	3.03	1210	0.37	1.75	2.3	122.5	330	17.2
20887		17.55	0.06	0.5	0.083	1.82	2.4	58.4	3.03	1645	6.20	1.59	2.3	128.5	320	8.5
20888		17.75	0.07	0.6	0.082	2.10	2.7	68.0	3.36	1365	0.83	2.16	2.4	134.5	320	10.7



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To: NORTH AMERICAN COBALT – BATTERY
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 SUITE 400, 744 WEST HASTINGS STREET
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CERTIFICATE OF ANALYSIS SD22041362

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
20849		27.9	<0.002	0.05	0.11	12.6	1	4.3	72.0	4.84	0.12	3.17	0.125	0.19	3.4	71
20850		38.5	0.002	0.01	0.34	32.4	1	9.6	103.0	1.43	0.05	0.48	0.322	0.23	0.9	193
20851		109.0	<0.002	0.02	0.81	34.8	1	4.0	146.5	0.11	<0.05	0.14	0.361	0.83	0.1	216
20852		43.0	<0.002	0.01	0.36	34.2	1	8.9	50.0	0.09	0.05	0.13	0.364	0.30	<0.1	209
20853		32.6	0.002	0.13	0.53	33.5	1	0.9	26.2	0.15	0.09	0.55	0.463	0.30	0.1	220
20854		29.1	<0.002	0.24	1.22	36.6	1	2.9	110.0	0.10	0.07	0.13	0.408	0.18	<0.1	230
20855		22.8	0.002	0.09	1.18	28.0	1	2.9	113.5	0.11	<0.05	0.12	0.418	0.18	0.1	245
20856		25.2	<0.002	0.03	1.08	27.0	1	3.3	114.5	1.45	0.06	5.26	0.291	0.14	1.9	166
20857		19.5	<0.002	0.01	1.65	29.0	1	4.1	103.5	0.11	<0.05	0.14	0.413	0.15	0.1	239
20858		37.7	<0.002	0.10	1.53	40.6	1	2.7	118.0	0.11	0.06	0.16	0.467	0.23	0.1	268
20859		35.0	0.002	0.21	1.48	45.5	1	0.9	99.4	0.10	0.08	0.16	0.471	0.24	<0.1	264
20860		40.3	<0.002	0.21	1.44	44.6	1	0.8	93.3	0.10	0.11	0.16	0.449	0.23	<0.1	249
20861		10.2	0.044	7.95	2.73	8.3	22	2.3	182.5	0.30	4.30	1.00	0.540	0.16	0.4	81
20862		76.5	<0.002	1.24	1.98	42.2	2	0.9	122.0	0.13	0.20	0.34	0.509	0.46	0.1	276
20863		37.6	0.002	1.98	3.72	35.7	2	1.1	172.5	0.18	0.16	1.06	0.431	0.42	0.3	221
20864		37.2	0.002	0.22	3.34	31.4	1	1.1	143.0	0.12	0.08	0.15	0.521	0.33	<0.1	253
20865		52.3	0.002	0.05	2.83	40.4	1	2.4	120.5	0.12	0.13	0.18	0.514	0.40	0.1	285
20866		66.7	<0.002	0.62	3.07	41.5	1	1.5	140.0	0.15	0.14	0.46	0.565	0.45	0.1	287
20867		72.7	0.004	2.71	2.30	21.5	3	1.2	130.0	0.25	0.41	2.73	0.353	0.75	1.0	152
20868		54.1	0.002	1.12	1.87	24.2	2	1.2	102.5	0.21	0.27	1.74	0.379	0.48	0.7	155
20869		33.3	<0.002	0.31	2.88	34.0	1	1.0	102.5	0.18	0.12	0.43	0.550	0.43	0.2	257
20870		35.6	0.002	0.35	6.02	34.9	1	1.2	146.5	0.16	0.08	0.25	0.576	0.32	0.1	269
20871		60.2	<0.002	0.32	8.08	43.8	1	1.1	144.5	0.14	0.08	0.21	0.578	0.34	0.1	296
20872		69.8	<0.002	0.42	7.57	60.8	1	1.1	152.5	0.17	0.12	0.57	0.548	0.38	0.1	283
20873		31.8	0.002	0.19	3.75	44.0	1	1.2	107.0	0.14	0.11	0.14	0.561	0.38	0.1	296
20874		62.0	<0.002	0.20	5.61	45.8	1	1.2	103.0	0.14	0.11	0.21	0.586	0.37	0.1	298
20875		0.8	<0.002	0.01	0.08	0.7	1	<0.2	76.3	<0.05	<0.05	0.06	0.010	<0.02	0.1	4
20876		57.4	<0.002	0.85	6.88	31.3	1	1.6	118.5	0.22	0.25	1.09	0.491	0.53	0.3	225
20877		53.7	<0.002	0.71	6.53	9.1	1	1.6	206	0.48	0.10	3.91	0.312	0.47	0.9	78
20878		73.8	<0.002	0.93	3.86	9.7	1	1.3	186.5	0.44	0.08	3.98	0.288	0.57	0.9	70
20879		95.6	<0.002	0.98	4.02	10.6	1	1.2	135.0	0.48	0.08	4.21	0.301	0.92	0.9	75
20880		95.7	<0.002	0.68	3.29	10.1	<1	1.2	133.0	0.48	0.06	4.35	0.303	0.74	1.0	72
20881		20.7	<0.002	2.50	1.84	20.2	1	1.3	400	1.15	<0.05	2.51	0.998	0.09	0.6	141
20882		86.8	<0.002	1.11	2.58	10.1	1	1.4	159.0	0.47	0.06	4.37	0.313	0.68	1.0	73
20883		76.0	<0.002	1.90	3.08	12.0	1	1.1	87.9	0.41	0.12	3.96	0.282	1.03	1.0	82
20884		83.5	0.002	1.43	6.11	29.0	1	1.4	105.0	0.25	0.18	1.76	0.453	0.67	0.4	195
20885		87.9	0.002	1.70	12.70	43.5	1	0.9	105.0	0.15	0.28	0.25	0.615	0.85	0.1	304
20886		62.3	0.002	0.72	6.01	46.5	1	0.8	88.0	0.15	<0.05	0.22	0.609	0.52	0.1	295
20887		52.5	0.002	0.68	4.49	47.8	1	1.1	99.1	0.15	0.05	0.18	0.600	0.58	0.1	303
20888		63.4	<0.002	0.64	4.86	41.3	1	1.1	104.0	0.15	<0.05	0.19	0.612	0.62	0.1	302



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CERTIFICATE OF ANALYSIS SD22041362

Sample Description	Method Analyte Units LOD	ME–MS61	ME–MS61	ME–MS61	ME–MS61	As–OG62	Co–OG62	Cu–OG62	Ni–OG62	Zn–OG62	CRU–QC	PUL–QC
		W	Y	Zn	Zr	As	Co	Cu	Ni	Zn	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	%	%	%	%	%	%	%
		0.1	0.1	2	0.5	0.001	0.0005	0.001	0.001	0.001	0.01	0.01
20849		0.7	39.1	349	14.9						86.4	93.0
20850		2.5	20.0	107	14.4							89.9
20851		1.4	14.5	73	17.4							
20852		0.9	13.6	92	17.6							
20853		2.0	18.4	135	45.4							
20854		0.3	15.4	249	15.1							
20855		0.4	16.0	152	17.0							
20856		0.7	57.8	160	57.2							
20857		0.5	17.8	112	23.2							
20858		0.4	17.9	121	22.0							
20859		0.7	18.0	80	17.0							
20860		0.7	17.7	74	16.0							
20861		2.4	9.1	134	51.7			1.635	4.59			
20862		1.0	18.6	94	14.5							
20863		1.4	17.3	83	44.5							
20864		1.2	17.0	156	17.2							
20865		1.2	19.6	128	15.3							
20866		1.0	19.2	183	18.1							
20867		0.9	14.7	111	90.8							
20868		1.2	16.1	265	64.8							
20869		1.2	15.1	125	28.9							
20870		0.8	19.4	91	21.1							
20871		0.7	20.9	192	17.2							
20872		0.5	21.1	120	34.5							
20873		0.7	13.8	234	14.0							
20874		1.3	18.9	119	14.4						80.9	
20875		0.1	2.7	5	1.7							
20876		1.4	17.3	152	54.9							
20877		0.5	12.4	94	161.0							
20878		2.7	13.2	141	144.0							
20879		1.1	14.8	505	154.5							
20880		1.3	14.4	299	153.5							
20881		1.6	20.9	121	133.5		2.06		2.27			
20882		1.2	14.4	112	167.0							
20883		1.2	13.7	205	143.5							
20884		3.5	16.4	143	66.6							
20885		3.0	19.2	200	11.3							
20886		2.3	18.4	107	12.9							
20887		2.0	17.8	123	12.5							90.7
20888		2.1	17.6	106	12.5						80.2	89.2



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Sample Description	Method Analyte Units LOD	WEI–21	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
20889		2.47	0.32	8.88	1195	280	0.67	0.25	5.42	0.21	8.42	52.9	189	2.62	145.5	7.32
20890		2.52	0.36	8.31	1315	260	1.20	0.42	5.20	0.27	7.74	54.6	187	2.75	152.5	6.70
20891		2.44	0.26	7.77	888	270	1.15	0.27	3.55	0.08	19.40	40.2	138	3.86	99.2	7.01
20892		2.11	0.32	7.68	1705	250	1.33	1.31	0.92	0.09	33.7	49.9	82	3.90	102.0	6.06
20893		1.53	0.70	8.76	3660	340	1.25	3.40	0.60	0.02	9.99	98.3	188	5.45	42.9	7.38
20894		2.07	0.43	7.17	4540	270	1.07	0.43	1.43	0.09	39.0	17.3	50	3.04	74.2	5.35
20895		1.85	0.31	7.28	517	360	0.79	0.06	2.44	0.14	42.6	12.0	34	3.47	49.4	3.93
20896		2.19	0.40	7.46	9760	240	0.76	0.16	4.89	0.25	26.8	27.8	93	2.51	75.5	6.01
20897		2.32	0.52	7.90	9040	280	0.32	0.15	6.16	0.24	7.30	49.7	160	2.36	123.5	8.03
20898		2.00	0.45	8.25	3060	260	0.36	0.10	4.98	0.12	7.61	50.6	181	1.18	102.5	7.94
20899		1.10	0.23	8.24	2140	290	0.34	0.06	5.79	0.23	7.91	52.2	174	0.86	69.2	8.05
20900		0.96	0.28	7.98	2280	290	0.28	0.07	5.62	0.28	7.77	52.0	172	0.81	107.0	7.85
20901		0.12	3.86	5.46	14.8	120	0.53	0.97	3.54	1.91	16.80	992	273	0.72	>10000	18.30
20902		2.08	0.26	7.94	1445	290	0.44	0.07	4.97	0.15	7.41	49.0	171	1.65	106.0	7.01
20903		1.81	0.35	8.05	2180	380	1.78	0.30	3.50	0.03	6.10	52.2	201	4.11	173.0	9.06
20904		1.96	0.60	6.54	9110	320	1.02	0.30	3.21	0.06	7.70	47.4	167	4.86	182.0	10.25
20905		2.16	1.16	1.65	677	40	0.68	0.33	1.71	0.07	9.96	11.4	32	4.48	159.0	15.70
20906		2.31	0.87	0.64	428	<10	0.35	0.29	3.03	0.08	7.88	10.1	15	1.79	179.5	11.90
20907		1.71	0.71	5.21	2850	130	0.68	0.51	0.96	0.13	15.80	24.1	108	3.86	157.0	12.30
20908		1.97	0.43	8.18	4100	320	0.91	2.51	0.46	0.07	11.80	78.4	205	5.43	84.2	7.69
20909		1.57	0.94	5.08	>10000	180	0.72	2.87	0.76	0.39	10.90	99.4	109	3.88	329	8.22
20910		2.06	4.75	0.96	>10000	20	0.23	5.20	0.68	2.11	3.18	80.7	29	0.52	402	9.03
20911		2.10	1.38	0.80	1460	<10	0.42	1.80	2.33	0.16	7.55	13.3	19	1.16	371	10.95
20912		2.07	1.23	1.05	249	30	0.37	0.38	2.42	0.12	9.32	13.8	22	2.10	241	11.95
20913		2.12	0.66	7.52	6140	320	0.87	0.27	0.77	0.26	53.1	22.0	91	6.20	68.3	8.20
20914		2.51	0.34	7.49	4170	520	0.86	0.09	3.37	0.45	52.9	19.7	73	5.62	40.3	3.82
20915		2.08	0.38	7.41	1325	410	0.79	0.10	2.35	0.20	55.9	18.4	87	5.43	98.0	4.56
20916		2.05	0.34	8.25	802	460	1.45	0.66	0.87	0.07	68.2	32.0	103	6.29	179.0	3.73
20917		2.07	0.28	7.01	1120	340	1.07	0.16	5.59	0.32	56.5	25.7	87	2.45	72.5	5.18
20918		1.94	1.11	6.96	>10000	440	0.94	0.50	2.31	0.68	42.3	26.2	100	3.95	99.8	4.53
20919		0.87	0.17	7.37	1965	550	0.98	0.09	5.26	0.34	47.0	21.1	69	4.07	179.0	5.43
20920		0.89	0.21	7.59	1810	570	0.92	0.14	5.06	0.27	45.0	20.5	73	4.18	216	5.63
20921		0.02	0.75	7.20	3.7	260	1.10	0.05	5.80	0.74	38.6	>10000	171	0.74	1910	7.34
20922		1.91	0.15	8.12	69.7	50	1.47	0.14	1.93	0.02	3.74	51.8	84	1.54	53.4	6.39
20923		1.23	2.76	7.52	190.5	10	2.41	7.75	1.45	0.04	2.99	47.7	87	3.79	273	10.50
20924		1.49	2.05	6.26	>10000	160	0.90	4.76	0.63	0.16	20.3	51.1	94	2.88	320	5.02
20925		0.52	0.04	0.15	19.0	20	0.09	0.08	35.7	0.02	1.20	3.8	3	0.07	5.0	0.20
20926		2.25	0.58	7.53	1170	490	1.10	2.10	1.38	0.57	42.7	29.1	132	4.90	318	5.29
20927		2.49	0.40	8.16	3920	500	1.26	0.36	1.67	0.35	58.7	23.7	133	5.32	156.5	5.36
20928		2.54	0.54	7.31	8120	520	0.83	0.95	3.99	0.82	47.7	31.2	80	3.96	371	4.44



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CERTIFICATE OF ANALYSIS SD22041362

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
20889		18.05	0.07	0.6	0.078	2.39	2.9	34.7	2.67	1710	1.65	2.01	2.3	129.5	340	11.1
20890		17.60	0.07	0.5	0.083	2.43	2.7	47.6	2.69	1450	0.36	1.41	2.3	134.5	320	14.5
20891		16.30	0.07	1.6	0.070	2.18	9.0	61.1	2.48	1440	0.67	1.22	3.4	90.5	420	4.7
20892		16.15	0.08	2.9	0.040	2.28	17.7	89.7	2.24	986	1.23	1.59	4.4	56.9	560	16.0
20893		19.55	0.07	1.3	0.047	2.93	4.0	104.5	2.62	1120	2.84	1.72	2.4	106.0	400	15.6
20894		14.75	0.09	3.1	0.048	2.13	19.4	57.2	1.60	795	1.82	1.51	4.2	29.4	710	17.0
20895		14.90	0.10	3.6	0.040	2.39	21.5	54.1	1.48	980	1.16	1.40	4.7	21.0	650	16.2
20896		15.55	0.09	2.3	0.079	1.80	13.5	31.9	2.27	1670	0.71	1.65	3.5	60.5	440	12.3
20897		15.50	0.06	0.5	0.080	2.17	2.5	20.9	3.24	2150	0.28	1.72	2.0	120.0	270	21.4
20898		16.05	0.07	0.6	0.077	2.00	2.5	26.3	2.89	2080	0.20	2.77	2.2	125.5	300	17.3
20899		15.90	0.06	0.6	0.081	1.88	2.7	28.5	3.19	2120	0.17	2.50	2.1	127.0	310	14.9
20900		15.60	0.07	0.6	0.077	1.83	2.7	29.3	3.05	2010	0.18	2.50	2.0	123.0	290	16.2
20901		10.85	0.14	1.2	0.111	0.32	7.3	9.2	4.02	1030	4.43	1.19	4.7	>10000	460	12.6
20902		15.00	0.06	0.7	0.070	1.93	2.4	34.1	2.97	1725	0.23	2.59	2.0	125.5	300	9.1
20903		20.5	0.06	0.5	0.075	2.75	2.1	126.0	4.60	1885	4.85	0.94	2.1	137.5	290	2.7
20904		18.40	0.06	0.5	0.073	2.21	2.7	95.5	3.75	1820	1.00	0.31	2.1	114.0	370	4.4
20905		8.30	0.05	0.6	0.068	0.40	4.3	6.9	1.09	2350	2.14	0.06	1.0	49.4	200	21.6
20906		5.15	<0.05	0.2	0.053	0.07	3.8	3.8	0.64	783	1.28	0.02	0.4	47.7	130	26.9
20907		14.05	0.05	1.6	0.046	0.89	6.7	78.1	2.54	1195	1.47	0.44	1.8	69.9	320	32.0
20908		17.70	0.07	1.2	0.056	2.30	4.2	110.0	2.63	1275	0.81	1.84	1.5	104.0	350	17.7
20909		10.20	0.06	0.9	0.065	1.22	5.1	61.3	1.79	908	1.57	0.80	1.1	74.7	280	177.0
20910		2.84	<0.05	0.4	0.061	0.08	1.5	10.2	0.66	371	3.08	0.04	0.5	62.4	170	869
20911		2.51	<0.05	0.4	0.081	0.05	3.3	5.5	0.83	603	1.62	0.02	0.7	76.9	250	76.5
20912		2.86	<0.05	0.5	0.096	0.24	4.2	5.8	0.88	790	1.84	0.03	0.6	74.5	380	61.3
20913		16.20	0.08	3.1	0.055	2.00	25.9	74.8	2.25	946	1.39	1.30	3.0	58.0	640	27.1
20914		16.60	0.18	3.0	0.039	3.04	24.2	61.1	2.26	977	1.10	1.76	4.3	44.1	870	54.1
20915		17.10	0.19	3.1	0.044	2.35	26.4	63.3	1.52	919	1.29	1.41	3.5	53.3	900	19.2
20916		20.5	0.24	4.1	0.047	2.70	30.2	96.9	1.60	652	1.84	1.85	4.6	52.7	1100	17.1
20917		17.10	0.19	2.9	0.047	1.49	28.2	50.4	3.09	1375	0.84	1.76	4.1	89.3	750	70.7
20918		15.40	0.18	2.9	0.034	2.28	18.8	53.8	1.71	879	1.08	2.16	3.5	62.7	830	102.0
20919		16.80	0.20	2.1	0.050	2.96	22.3	43.2	3.84	1765	0.45	1.38	5.1	57.6	830	41.3
20920		16.40	0.21	2.0	0.053	3.02	21.4	41.9	3.89	1735	0.40	1.42	5.0	55.1	860	33.4
20921		18.95	0.18	3.3	0.063	0.68	19.2	7.6	3.88	1015	2.64	2.19	22.4	>10000	1510	17.4
20922		17.65	0.11	2.0	0.034	0.43	1.4	126.0	5.31	703	1.08	3.04	4.8	102.0	920	11.6
20923		22.6	0.15	2.4	0.049	0.07	0.9	189.0	7.12	1040	3.18	1.64	4.8	134.5	780	503
20924		14.45	0.15	2.8	0.039	1.57	9.1	79.2	2.44	565	4.80	2.29	3.3	106.0	660	296
20925		0.46	0.09	0.1	<0.005	0.01	1.3	3.3	1.74	127	0.14	0.05	0.2	3.0	90	4.8
20926		17.40	0.13	3.5	0.049	2.42	19.3	95.2	2.58	1010	1.22	2.26	4.4	68.2	860	55.8
20927		19.35	0.15	3.3	0.051	2.79	28.1	74.3	2.34	1060	0.74	1.33	3.9	55.7	860	46.2
20928		17.25	0.14	2.8	0.046	2.78	22.5	39.7	2.94	1060	1.38	1.83	4.2	68.8	720	131.5



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CERTIFICATE OF ANALYSIS SD22041362

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
20889		101.0	0.002	0.78	6.18	45.7	1	0.8	134.5	0.15	<0.05	0.23	0.639	0.73	0.1	306
20890		85.8	0.002	0.76	7.50	43.8	1	0.8	113.0	0.14	<0.05	0.21	0.605	0.72	0.1	299
20891		84.7	<0.002	0.70	5.98	39.3	1	0.9	83.9	0.26	<0.05	1.55	0.486	0.79	0.4	234
20892		88.2	<0.002	1.22	6.59	20.8	<1	0.9	48.7	0.35	0.10	3.20	0.349	0.77	1.3	138
20893		89.4	<0.002	2.16	9.62	31.2	1	0.8	48.6	0.15	0.17	0.69	0.513	1.11	0.5	252
20894		83.1	<0.002	1.83	10.80	10.0	1	1.1	75.3	0.33	0.24	3.58	0.272	0.70	0.9	74
20895		93.9	<0.002	0.91	2.84	9.2	1	0.9	87.2	0.39	0.05	4.00	0.272	0.65	0.9	68
20896		69.9	<0.002	1.29	10.95	23.4	1	1.3	126.5	0.27	0.22	2.33	0.378	0.61	0.5	153
20897		91.5	<0.002	1.36	10.50	44.0	1	1.2	158.5	0.12	0.15	0.21	0.563	0.65	0.1	281
20898		73.3	<0.002	1.12	6.20	47.0	1	0.8	125.0	0.14	0.11	0.21	0.604	0.55	0.1	299
20899		67.6	<0.002	0.44	5.80	50.4	1	1.0	146.5	0.13	0.07	0.20	0.588	0.54	0.1	294
20900		66.2	0.002	0.49	5.87	47.0	1	1.0	147.5	0.13	0.09	0.19	0.565	0.55	0.1	285
20901		10.4	0.045	8.05	2.60	8.5	19	2.3	180.5	0.28	4.14	0.98	0.538	0.16	0.3	79
20902		76.2	0.002	0.29	4.91	42.7	1	0.8	124.5	0.13	0.08	0.20	0.572	0.54	0.1	275
20903		108.5	0.002	0.19	4.42	45.0	<1	1.1	46.4	0.13	0.11	0.19	0.567	0.87	0.1	283
20904		91.9	0.002	1.57	8.95	39.6	1	0.8	37.1	0.13	0.16	0.29	0.540	1.36	0.1	253
20905		21.4	<0.002	9.28	2.70	4.3	2	0.6	14.6	0.08	0.06	1.06	0.068	0.70	0.3	26
20906		6.1	<0.002	9.50	1.88	2.0	2	0.4	15.2	<0.05	0.07	0.32	0.023	0.28	0.1	13
20907		36.3	0.003	4.51	2.39	26.6	1	0.9	18.2	0.14	0.09	1.55	0.260	1.12	0.5	159
20908		62.8	0.003	1.30	5.65	38.6	1	0.7	66.2	0.11	0.19	0.49	0.428	1.29	0.2	270
20909		56.9	0.002	3.86	12.35	20.2	2	0.6	43.9	0.09	0.44	0.86	0.263	0.77	0.3	159
20910		3.5	0.002	7.21	16.30	4.5	3	0.3	5.7	<0.05	0.82	0.64	0.036	0.17	0.2	19
20911		4.3	<0.002	8.97	2.74	2.8	2	0.7	13.2	0.05	0.44	0.58	0.037	0.23	0.1	12
20912		10.4	<0.002	9.57	2.92	2.9	2	0.7	12.8	0.05	0.18	0.68	0.049	0.35	0.2	18
20913		83.3	0.003	3.55	4.22	15.3	1	1.4	74.0	0.21	0.17	4.48	0.290	1.63	1.1	109
20914		96.1	<0.002	1.17	4.02	11.6	1	0.9	131.5	0.32	0.11	4.66	0.368	1.09	0.9	123
20915		97.3	<0.002	1.82	2.92	13.2	1	0.9	105.5	0.25	<0.05	5.34	0.357	1.14	1.0	132
20916		119.0	<0.002	0.55	2.05	14.8	1	1.0	106.5	0.31	<0.05	6.10	0.439	0.91	1.4	152
20917		58.5	<0.002	0.78	4.50	29.0	1	1.3	134.0	0.29	0.05	4.80	0.335	0.59	1.2	174
20918		73.3	<0.002	1.33	11.20	14.8	1	0.8	117.0	0.25	0.07	4.17	0.336	0.95	0.9	128
20919		121.5	<0.002	0.18	5.32	13.4	1	1.0	125.5	0.37	<0.05	4.60	0.413	1.07	1.0	132
20920		130.5	<0.002	0.26	4.83	14.0	1	1.0	127.0	0.34	<0.05	4.67	0.421	1.07	1.0	136
20921		21.3	<0.002	2.61	1.92	19.7	1	1.4	421	1.22	<0.05	2.64	1.045	0.10	0.7	151
20922		5.2	<0.002	0.03	0.36	13.4	1	1.5	30.4	0.33	<0.05	2.81	0.434	0.15	0.8	147
20923		3.9	<0.002	1.84	0.93	24.3	1	1.7	18.4	0.33	0.05	4.34	0.406	0.49	1.0	165
20924		50.0	<0.002	1.55	10.20	14.4	1	0.7	60.2	0.23	0.06	3.77	0.288	0.90	0.9	125
20925		0.4	<0.002	0.02	0.06	0.4	2	<0.2	86.6	<0.05	<0.05	0.13	0.009	<0.02	0.2	3
20926		73.0	<0.002	1.12	2.67	16.6	1	0.8	97.4	0.32	<0.05	4.71	0.401	1.58	1.1	149
20927		95.6	<0.002	1.07	4.24	17.3	1	0.9	98.3	0.28	0.05	4.84	0.398	0.96	1.0	158
20928		79.6	<0.002	0.70	8.46	12.6	1	0.8	130.5	0.31	<0.05	4.75	0.341	1.00	1.0	130

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



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		W	Y	Zn	Zr	As	Co	Cu	Ni	Zn	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	%	%	%	%	%	%	%
		0.1	0.1	2	0.5	0.001	0.0005	0.001	0.001	0.001	0.01	0.01
20889		3.4	20.4	126	11.5							
20890		1.4	18.6	139	10.9							
20891		1.6	18.8	92	57.5							
20892		1.8	11.4	84	117.5							
20893		3.4	12.4	63	47.9							
20894		0.6	12.6	71	132.5							
20895		1.3	13.2	103	154.0							
20896		4.0	15.6	157	91.8							
20897		4.6	19.3	161	12.9							
20898		2.0	21.3	133	13.3							
20899		1.0	20.5	168	15.6							
20900		1.0	20.0	180	13.6							
20901		2.1	9.4	138	48.4			1.635	4.71			
20902		0.9	19.0	108	13.1							
20903		1.9	19.2	85	12.5							
20904		1.8	19.9	74	11.4							
20905		0.9	8.0	50	22.4							
20906		0.3	8.1	26	6.2							
20907		2.0	12.9	74	54.7							
20908		2.4	12.8	63	42.9							
20909		1.1	10.2	141	33.7	1.775						
20910		0.3	3.9	700	15.8	1.200						
20911		0.3	6.9	61	13.4							
20912		1.7	7.8	50	18.4							
20913		3.5	14.8	103	127.5							
20914		1.6	13.1	174	124.0							95.9
20915		1.8	14.6	101	128.0							95.9
20916		1.5	16.2	58	164.0							
20917		1.3	16.2	161	115.0							
20918		1.5	12.7	240	114.5	1.070						
20919		2.3	13.3	174	86.6							
20920		2.2	13.7	154	96.0							
20921		1.7	21.3	129	138.0		2.05		2.27			
20922		0.9	4.5	54	87.7							
20923		1.0	6.3	88	91.5							
20924		1.9	7.5	74	113.5	1.265						
20925		<0.1	2.2	6	3.2							
20926		1.7	12.4	194	137.0							
20927		1.9	14.9	157	127.0							92.7
20928		1.8	11.4	267	108.5						76.5	94.4



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		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
20929		2.54	0.13	7.73	132.0	520	0.69	0.05	4.59	1.07	59.7	21.2	53	2.82	33.8	4.00
20930		2.35	0.12	7.19	78.4	360	0.91	0.06	5.40	2.70	56.0	22.7	36	1.35	18.6	4.56
20931		2.10	0.22	7.32	65.9	520	1.20	0.14	5.54	4.43	63.8	24.6	56	1.54	30.2	4.88
20932		1.58	2.93	6.61	1380	420	1.05	9.91	3.86	1.17	38.3	900	76	0.96	129.5	4.71
20933		1.30	1.25	7.55	163.0	430	0.58	0.51	5.31	1.30	51.5	27.8	91	6.87	85.7	5.48
20934		2.19	0.89	7.68	3490	370	0.66	0.10	5.31	0.33	51.2	29.1	90	7.60	63.1	5.21
20935		2.12	0.51	7.99	4690	410	0.81	0.43	5.42	0.34	54.9	96.8	90	6.78	56.6	4.84
20936		2.01	0.51	7.79	2680	300	0.91	0.55	3.99	0.16	45.3	30.6	86	4.57	75.4	4.28
20937		0.67	0.61	8.75	2190	470	1.00	0.87	1.31	0.07	47.6	47.5	95	7.75	65.8	3.14
20938		2.08	0.77	7.29	3440	420	0.70	0.17	4.75	0.27	59.7	25.2	73	4.87	43.2	5.46
20939		0.89	0.92	7.50	1070	580	0.93	0.18	2.31	0.54	49.2	18.5	100	4.62	53.9	4.67
20940		0.87	0.83	7.54	1195	630	1.02	0.16	2.51	0.64	52.3	18.8	114	4.31	52.6	4.78
20941		0.12	4.15	5.58	15.8	120	0.49	0.97	3.58	2.13	18.00	1015	262	0.82	>10000	18.65
20942		1.20	0.97	5.36	>10000	190	0.51	0.51	7.61	0.10	37.1	30.6	83	1.60	53.2	8.79
20943		2.40	0.14	7.99	172.0	390	0.69	0.04	3.47	0.08	25.7	18.7	215	7.34	41.8	3.44
20944		2.42	0.92	7.51	>10000	400	0.38	0.10	2.62	0.06	25.0	20.8	166	4.81	29.7	5.42
20945		2.34	0.88	7.93	6480	370	0.50	0.14	1.90	0.07	22.9	33.3	227	6.54	91.7	6.96
20946		2.38	0.68	7.80	>10000	340	0.48	0.10	1.81	0.49	21.0	28.5	153	5.94	46.6	5.18
20947		2.35	0.79	7.85	2030	260	0.58	0.06	2.04	0.29	23.9	18.4	70	4.53	125.0	5.15
20948		2.08	5.76	7.43	5730	280	0.53	0.23	2.89	36.0	19.80	23.7	57	4.58	103.0	6.33
20949		1.99	13.10	8.47	6040	340	0.62	0.14	1.76	3.65	26.3	11.3	80	6.57	60.8	3.96
20950		2.12	5.78	8.36	1630	520	0.57	0.01	2.46	3.93	18.10	35.0	134	7.07	111.5	6.39
20951		2.04	8.98	7.97	1655	310	0.62	0.04	1.03	61.0	18.35	36.4	105	4.44	175.5	7.83
20952		1.99	2.23	8.21	1130	540	1.10	0.04	4.34	9.26	45.0	36.3	126	3.42	89.5	7.81
20953		1.93	1.77	7.71	4610	300	0.68	0.07	6.07	6.87	9.79	46.0	103	3.24	132.0	8.89
20954		2.21	0.88	7.30	4430	180	0.41	0.05	6.33	0.90	6.66	51.5	127	1.84	148.0	9.59
20955		1.98	0.90	7.91	906	80	0.20	0.04	8.26	0.24	4.97	51.6	149	0.62	149.0	8.65
20956		2.57	0.28	8.15	12.7	30	0.24	0.13	7.33	0.37	4.65	54.3	210	0.30	161.0	9.11



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CERTIFICATE OF ANALYSIS SD22041362

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
20929		17.40	0.17	2.7	0.046	2.45	29.0	28.4	3.32	1305	1.33	3.06	4.8	65.3	800	79.2
20930		14.95	0.14	2.4	0.033	1.94	27.3	26.7	3.99	1530	1.05	3.32	4.4	70.9	670	342
20931		15.35	0.16	2.8	0.055	2.25	31.6	40.1	4.13	1245	0.81	2.97	5.0	73.3	830	351
20932		15.65	0.14	2.6	0.040	1.22	17.7	65.7	2.91	881	48.4	2.54	4.6	105.5	900	287
20933		18.30	0.18	3.0	0.049	1.89	24.2	41.3	2.65	1150	2.24	0.91	5.5	55.0	830	69.9
20934		18.30	0.16	3.0	0.042	2.00	25.0	36.7	2.60	1140	1.12	1.02	5.6	60.6	810	44.0
20935		18.00	0.19	2.8	0.062	2.05	26.5	35.8	2.83	1035	0.91	1.35	5.9	69.3	830	33.6
20936		18.15	0.16	3.2	0.051	1.95	19.7	48.9	1.98	866	0.93	1.02	5.5	57.8	730	16.9
20937		20.1	0.16	3.7	0.051	3.38	21.6	43.5	0.72	458	2.17	1.07	5.9	60.9	720	20.8
20938		16.95	0.17	3.4	0.046	1.67	28.9	41.2	2.57	1130	1.76	1.50	5.2	68.5	850	29.8
20939		18.15	0.16	3.4	0.046	2.47	21.7	52.5	1.55	859	4.97	2.08	4.5	46.4	870	31.4
20940		18.45	0.19	3.5	0.042	2.34	23.7	54.7	1.69	906	4.68	2.13	4.9	48.8	900	32.0
20941		12.00	0.25	1.4	0.123	0.33	7.7	9.2	4.15	1045	4.94	1.21	5.2	>10000	490	13.5
20942		13.30	0.11	1.9	0.075	0.83	17.9	24.8	3.04	2720	1.61	0.82	2.8	102.5	440	7.2
20943		18.65	0.10	3.0	0.038	1.64	12.2	39.1	0.95	781	1.52	1.56	3.7	51.3	520	9.6
20944		17.25	0.12	2.6	0.034	2.70	11.6	42.8	1.83	1165	0.99	1.05	2.5	60.4	520	40.2
20945		18.15	0.11	2.6	0.036	2.19	11.4	60.5	1.45	1455	1.09	1.17	2.7	91.5	460	24.8
20946		17.40	0.11	2.5	0.035	2.12	9.9	45.7	1.41	885	1.08	1.45	2.4	74.4	510	83.0
20947		17.75	0.12	2.4	0.034	2.04	11.1	49.0	1.76	1080	0.61	1.61	2.8	48.9	500	45.2
20948		18.00	0.13	2.7	0.077	1.93	8.5	49.7	1.84	1190	0.74	1.83	3.6	54.4	570	1390
20949		19.70	0.14	2.8	0.039	2.91	12.5	66.6	1.73	1005	0.77	1.60	2.7	26.3	620	2260
20950		18.00	0.13	1.7	0.038	3.80	7.6	60.5	1.94	1275	0.44	1.45	2.9	66.6	590	597
20951		18.70	0.14	1.6	0.055	2.60	7.7	71.5	1.77	853	0.81	2.72	2.4	87.9	550	2240
20952		18.25	0.14	1.9	0.048	2.50	22.0	40.6	3.42	1495	0.38	2.27	3.9	68.3	910	819
20953		17.05	0.11	0.7	0.062	1.99	4.3	41.4	3.79	2010	0.31	2.04	1.8	79.7	320	361
20954		15.90	0.09	0.5	0.067	1.13	2.4	46.4	4.56	1680	0.16	2.10	1.5	110.5	270	140.5
20955		16.00	0.10	0.5	0.060	0.76	1.8	47.6	4.78	1425	0.52	1.95	1.1	114.0	240	35.7
20956		14.75	0.08	0.6	0.061	0.16	1.6	30.1	4.94	1700	2.06	2.70	1.0	128.5	240	35.2



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CERTIFICATE OF ANALYSIS SD22041362

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
20929		82.6	<0.002	0.20	4.07	12.4	1	0.9	137.5	0.35	<0.05	5.45	0.363	0.85	1.2	124
20930		63.5	<0.002	0.09	3.47	11.2	1	0.7	122.5	0.33	<0.05	5.46	0.325	0.52	1.2	106
20931		74.6	<0.002	0.08	3.35	13.7	1	1.0	143.0	0.38	<0.05	5.60	0.331	0.61	1.3	114
20932		38.6	0.011	0.19	2.30	14.7	2	0.8	76.9	0.31	0.08	4.27	0.370	0.63	5.2	127
20933		87.9	<0.002	2.41	6.31	18.6	1	1.1	167.5	0.38	<0.05	4.64	0.400	1.69	1.1	135
20934		96.8	<0.002	2.27	7.88	16.5	1	1.2	174.5	0.39	0.06	4.62	0.394	1.26	1.1	125
20935		91.3	<0.002	1.73	8.56	17.6	2	1.1	177.5	0.37	0.10	4.59	0.396	1.06	1.1	124
20936		48.9	<0.002	1.39	6.21	24.0	1	1.0	132.5	0.38	0.10	4.25	0.393	0.83	0.9	137
20937		120.5	<0.002	1.38	3.63	25.0	1	1.3	95.2	0.42	0.13	5.43	0.423	1.34	1.4	134
20938		76.2	<0.002	1.60	6.51	15.4	1	1.3	185.0	0.37	0.07	5.25	0.358	1.00	1.2	116
20939		71.4	0.002	1.59	2.87	14.4	1	1.4	201	0.33	0.07	4.26	0.344	0.98	1.0	113
20940		69.0	0.002	1.49	2.60	14.4	1	1.5	219	0.34	0.06	4.56	0.360	0.87	1.0	118
20941		11.1	0.047	8.30	3.42	8.5	23	2.7	187.0	0.32	4.37	1.13	0.554	0.18	0.4	81
20942		27.1	<0.002	2.72	48.0	18.6	3	1.2	139.5	0.18	1.17	3.17	0.233	0.78	0.7	108
20943		53.2	<0.002	0.17	2.09	11.6	1	0.7	198.0	0.26	<0.05	2.95	0.365	0.65	0.7	126
20944		95.0	<0.002	2.18	13.55	14.2	1	0.7	88.5	0.18	<0.05	2.92	0.286	1.17	0.7	118
20945		100.5	<0.002	2.78	6.99	17.8	1	0.6	89.1	0.18	<0.05	2.81	0.309	1.26	0.7	134
20946		92.0	<0.002	2.08	9.93	16.8	1	0.6	103.0	0.17	<0.05	2.60	0.262	0.93	0.7	127
20947		84.2	<0.002	2.11	4.30	17.2	1	0.5	101.5	0.20	<0.05	2.31	0.246	0.81	0.6	130
20948		50.3	<0.002	2.94	19.90	13.0	1	0.8	109.5	0.26	<0.05	1.63	0.284	0.96	0.5	99
20949		111.0	<0.002	2.01	23.4	11.8	1	0.8	78.0	0.21	<0.05	2.32	0.240	0.98	0.7	86
20950		101.5	<0.002	3.50	21.6	22.2	1	0.5	85.7	0.22	<0.05	1.40	0.400	1.41	0.4	165
20951		66.0	<0.002	4.89	27.0	26.3	1	0.6	103.5	0.18	<0.05	1.48	0.378	1.03	0.5	182
20952		84.7	<0.002	2.40	16.30	29.4	1	0.9	254	0.31	<0.05	3.06	0.461	0.69	0.8	198
20953		70.7	<0.002	2.34	18.95	43.5	1	0.7	126.0	0.12	<0.05	0.55	0.518	0.68	0.1	274
20954		40.1	<0.002	0.31	8.65	46.0	1	0.4	75.7	0.10	<0.05	0.15	0.519	0.32	<0.1	290
20955		17.9	<0.002	0.10	3.80	44.0	1	0.4	64.8	0.07	<0.05	0.10	0.452	0.20	<0.1	264
20956		6.2	<0.002	0.14	1.02	45.2	1	0.4	110.0	0.07	<0.05	0.09	0.466	0.11	<0.1	279



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CERTIFICATE OF ANALYSIS SD22041362

Sample Description	Method Analyte Units LOD	ME–MS61	ME–MS61	ME–MS61	ME–MS61	As–OG62	Co–OG62	Cu–OG62	Ni–OG62	Zn–OG62	CRU–QC	PUL–QC
		W	Y	Zn	Zr	As	Co	Cu	Ni	Zn	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	%	%	%	%	%	%	%
		0.1	0.1	2	0.5	0.001	0.0005	0.001	0.001	0.001	0.01	0.01
20929		1.1	14.1	349	109.5							
20930		0.7	12.9	811	98.1							
20931		0.6	14.8	1185	112.5							
20932		1.5	14.3	357	110.5							
20933		1.4	16.4	417	124.5							
20934		1.6	14.8	182	115.0							
20935		0.9	15.8	155	112.5							
20936		1.0	13.0	98	118.5							
20937		2.5	12.3	53	142.5							
20938		5.9	15.0	146	124.0							
20939		1.9	14.1	207	133.5							
20940		1.9	14.7	242	138.0							
20941		2.5	10.0	147	53.9			1.665	4.72			
20942		15.7	15.5	91	69.7	4.30						
20943		0.6	9.2	66	106.0							
20944		2.3	10.5	46	96.4	1.575						
20945		1.9	10.4	60	90.1							
20946		1.9	10.8	223	95.6	1.025						
20947		1.7	11.8	153	87.0							
20948		2.4	14.2	7010	107.5							
20949		5.5	13.3	620	111.0							
20950		4.5	15.5	760	67.5							
20951		5.5	16.3	>10000	63.5					1.225		
20952		3.3	21.1	2390	72.4							
20953		3.4	21.6	1570	19.7							
20954		1.5	21.3	253	11.2							
20955		1.2	19.2	105	8.8							
20956		1.0	18.3	152	10.0							

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



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CERTIFICATE OF ANALYSIS SD22041362

	CERTIFICATE COMMENTS								
Applies to Method:	<p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>REEs may not be totally soluble in this method. ME-MS61</p>								
Applies to Method:	<p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">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:	<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%;">As-OG62</td> <td style="width: 33%;">Co-OG62</td> <td style="width: 33%;">Cu-OG62</td> <td style="width: 15%;">ME-MS61</td> </tr> <tr> <td>ME-OG62</td> <td>Ni-OG62</td> <td>Zn-OG62</td> <td></td> </tr> </table>	As-OG62	Co-OG62	Cu-OG62	ME-MS61	ME-OG62	Ni-OG62	Zn-OG62	
As-OG62	Co-OG62	Cu-OG62	ME-MS61						
ME-OG62	Ni-OG62	Zn-OG62							



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CERTIFICATE SD22059329

Project: McAra Resource – MCD22-062
 P.O. No.: MCD22-062
 This report is for 111 samples of 1/2 Core submitted to our lab in Sudbury, ON, Canada on 9-MAR-2022.
 The following have access to data associated with this certificate:

PETER DOYLE FRANK PLOEGER	SEAN HICKS	KAJAL MAKWANA
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
Aq-OG62	Ore Grade Ag – Four Acid	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	
As-OG62	Ore Grade As – Four Acid	

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

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

Signature: 
 Saa Traxler, Director, North Vancouver Operations



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 SUITE 400, 744 WEST HASTINGS STREET
 VANCOUVER BC V6C 1A5

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 Account: BMRPLLW

Project: McAra Resource – MCD22–062

CERTIFICATE OF ANALYSIS SD22059329

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 %
20957		1.85	0.47	7.61	6.7	80	6.70	0.49	7.35	0.44	5.95	43.2	268	2.16	469	7.25
20958		1.58	0.41	7.85	16.4	40	4.71	0.50	8.52	0.21	6.25	46.1	275	1.66	67.3	6.24
20959		0.87	0.32	7.31	21.6	80	5.28	0.56	10.65	0.26	5.81	44.1	194	2.33	26.6	5.60
20960		0.72	0.25	7.79	17.3	110	5.94	0.62	8.15	0.09	6.56	43.6	213	2.96	22.5	6.43
20961		0.12	3.84	5.32	13.9	80	0.56	0.84	3.47	2.06	14.60	947	266	0.76	>10000	17.80
20962		1.87	0.07	6.51	3.3	190	1.59	0.20	6.17	0.12	5.19	61.8	158	3.29	137.0	7.92
20963		1.60	0.05	6.70	2.5	130	1.34	0.15	5.32	0.08	12.20	60.6	165	3.45	96.3	8.42
20964		2.04	0.07	6.55	3.4	180	2.52	0.28	4.72	0.09	20.0	52.5	114	3.35	242	9.25
20965		0.85	0.28	6.74	3.2	40	3.64	0.20	2.49	<0.02	8.51	40.0	123	4.39	227	5.70
20966		1.86	0.08	6.05	2.0	10	1.94	0.51	0.40	<0.02	3.45	47.3	228	3.33	61.0	8.44
20967		1.48	0.03	5.60	1.8	20	1.63	0.18	0.64	0.02	4.44	37.5	197	2.90	31.9	8.52
20968		1.03	0.14	5.56	2.5	<10	3.38	1.57	0.31	<0.02	2.57	37.7	178	1.79	24.1	8.48
20969		1.54	0.46	6.08	8.1	10	1.50	4.99	0.38	0.02	2.21	43.0	207	1.96	3.2	9.05
20970		1.47	0.25	5.96	3.9	10	2.20	2.58	0.74	0.02	3.37	38.7	185	2.59	4.3	8.69
20971		1.80	0.04	5.74	1.1	10	2.25	0.08	1.37	0.02	5.87	39.1	217	3.45	116.0	9.33
20972		1.65	0.12	6.93	122.5	230	1.78	0.24	5.41	0.10	7.43	45.3	185	3.16	175.5	7.80
20973		1.47	0.05	6.31	103.0	240	1.28	0.13	4.38	0.09	4.58	43.5	157	1.98	49.4	6.93
20974		2.02	0.15	6.84	119.5	360	0.62	0.16	5.95	0.34	6.49	50.6	197	2.95	116.5	8.33
20975		0.45	<0.01	0.19	1.5	20	0.08	0.01	31.7	0.02	0.90	1.7	7	0.10	3.2	0.28
20976		1.79	0.21	7.13	199.5	130	1.60	0.20	3.83	0.15	4.13	42.5	213	3.94	263	7.97
20977		1.83	0.17	6.43	54.9	270	1.13	0.16	4.98	0.28	6.91	48.9	176	3.62	224	7.94
20978		1.75	0.17	6.71	44.1	100	2.01	0.28	3.59	0.61	8.00	41.2	221	2.85	112.0	8.59
20979		0.63	0.83	6.12	183.0	10	1.75	5.10	1.36	0.75	3.91	122.5	205	1.60	87.4	7.77
20980		0.84	0.64	6.34	164.5	10	2.10	3.15	1.68	0.24	5.05	101.5	211	1.83	90.5	7.82
20981		0.11	3.93	5.37	14.2	80	0.59	0.90	3.46	2.10	16.15	943	266	0.76	>10000	17.85
20982		1.93	0.19	7.06	90.0	20	1.02	0.97	0.91	0.05	11.10	41.8	196	0.98	36.6	7.13
20983		2.20	0.80	7.22	126.0	170	1.06	7.72	0.38	0.12	23.0	44.0	149	7.72	192.5	7.15
20984		2.41	0.32	6.50	33.6	400	0.85	0.12	3.35	1.35	31.5	11.8	35	2.70	51.1	3.84
20985		1.15	0.53	7.81	806	450	0.99	0.35	4.40	0.61	12.55	44.3	148	2.67	134.5	6.66
20986		1.77	0.50	7.03	497	420	0.78	0.23	3.08	0.29	31.1	36.0	98	4.79	113.5	6.05
20987		1.82	0.49	7.62	4470	340	0.81	0.23	1.91	0.19	29.2	36.0	103	4.71	64.5	5.95
20988		2.15	2.36	0.56	408	10	0.62	0.71	4.65	0.25	8.25	23.7	33	1.82	520	19.55
20989		1.99	1.18	4.98	372	210	0.63	0.32	3.33	0.21	29.6	16.1	100	3.50	194.5	10.45
20990		2.16	0.87	5.72	700	100	0.67	0.18	4.77	0.41	44.8	28.1	79	2.91	99.2	14.95
20991		1.86	0.39	8.21	186.5	400	0.97	0.03	3.13	0.59	69.5	17.2	125	4.88	49.3	3.78
20992		1.88	0.81	7.45	2270	380	0.75	0.06	1.87	0.29	51.8	13.2	114	3.85	51.7	3.16
20993		1.77	0.75	7.77	2290	380	0.65	0.07	1.82	0.06	48.0	14.7	121	3.72	41.6	3.31
20994		2.42	0.37	7.70	1445	380	0.56	0.05	2.77	0.12	22.4	14.2	114	4.51	23.1	3.39
20995		2.54	0.66	7.70	5470	270	0.45	0.12	2.06	0.53	22.1	24.1	82	4.45	61.6	6.03
20996		2.60	0.63	8.67	1440	320	0.51	0.16	2.33	0.03	28.1	16.9	65	4.25	54.0	5.91



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CERTIFICATE OF ANALYSIS SD22059329

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
20957		14.45	0.14	0.5	0.126	0.46	2.4	100.0	4.95	1330	4.73	2.42	2.1	170.5	190	89.8
20958		15.70	0.08	0.5	0.076	0.20	2.6	121.0	4.29	1110	1.43	2.68	1.6	171.5	180	204
20959		14.15	0.07	0.5	0.069	0.45	2.7	113.5	3.92	1020	16.80	2.42	1.7	153.5	160	103.5
20960		16.10	0.08	0.5	0.094	0.54	3.0	135.0	4.49	1135	80.4	2.54	2.7	177.5	220	65.1
20961		11.75	0.32	1.3	0.120	0.31	6.4	9.7	3.95	978	4.82	1.17	4.6	>10000	450	13.8
20962		14.00	0.12	0.6	0.051	0.93	2.0	97.5	6.05	1260	1.14	1.55	1.3	307	190	3.4
20963		14.45	0.11	0.6	0.070	0.69	6.1	120.0	6.42	1195	1.16	1.51	1.3	294	200	1.3
20964		17.30	0.10	2.3	0.091	0.58	7.9	130.5	6.09	999	3.35	1.45	4.1	199.0	540	18.6
20965		16.70	0.09	3.2	0.063	0.44	3.6	103.5	4.26	443	0.95	2.19	8.6	167.5	130	11.1
20966		18.45	0.15	0.8	0.059	0.08	1.6	172.0	7.09	526	5.06	1.78	2.1	188.5	230	2.8
20967		16.10	0.15	0.7	0.044	0.10	2.0	152.0	6.45	566	2.64	1.28	1.7	199.0	200	5.1
20968		17.75	0.09	0.6	0.051	0.03	1.0	141.5	6.29	547	16.05	0.56	1.3	165.5	200	3.2
20969		23.8	0.14	0.7	0.052	0.03	0.9	163.5	6.05	584	46.7	1.57	1.9	180.0	210	7.9
20970		19.60	0.12	0.7	0.043	0.16	1.6	176.0	6.18	564	48.9	1.20	1.8	194.5	190	6.1
20971		18.65	0.15	0.8	0.055	0.05	2.8	200	6.68	723	1.14	1.27	1.6	260	200	1.5
20972		15.95	0.11	0.8	0.079	0.85	2.9	99.6	4.61	1085	4.00	1.60	2.0	155.5	240	5.2
20973		15.50	0.10	0.6	0.066	0.79	1.8	93.4	4.11	890	1.70	1.67	1.8	139.5	180	21.8
20974		15.30	0.13	0.7	0.064	1.58	2.3	43.6	4.93	1335	0.77	1.20	1.7	152.5	240	16.4
20975		0.64	<0.05	0.1	<0.005	0.02	1.0	4.4	2.19	124	0.15	0.05	0.1	3.8	80	1.4
20976		16.10	0.08	0.7	0.068	0.73	1.8	119.0	5.15	992	0.48	1.57	1.6	167.5	260	12.6
20977		15.10	0.09	0.7	0.069	1.44	2.7	81.9	5.09	1150	2.21	1.25	1.9	166.5	220	14.9
20978		16.05	0.13	0.8	0.061	0.40	3.5	142.5	6.37	915	3.13	1.45	1.5	219	220	51.8
20979		13.90	0.08	0.7	0.053	0.06	1.7	148.5	5.61	663	21.2	1.54	1.2	138.5	200	278
20980		14.45	0.11	0.6	0.052	0.06	2.2	153.5	5.95	726	11.20	1.51	1.4	147.5	200	265
20981		11.90	0.31	1.2	0.119	0.31	6.8	10.2	3.96	984	4.88	1.19	4.7	>10000	460	14.4
20982		15.85	<0.05	2.6	0.030	0.10	4.5	139.0	4.90	779	6.58	2.40	4.0	76.6	930	23.5
20983		17.15	<0.05	1.9	0.043	1.33	10.8	112.5	3.28	752	11.35	1.24	2.9	55.7	440	126.0
20984		15.65	0.11	3.4	0.042	2.57	13.7	58.2	0.90	898	1.58	2.33	4.9	21.8	510	146.0
20985		20.9	0.12	0.8	0.058	1.60	5.7	64.2	2.68	1395	0.98	2.19	2.3	98.4	320	131.0
20986		18.00	0.15	2.7	0.089	2.02	12.9	62.0	1.69	1535	1.86	1.34	4.4	72.7	500	13.2
20987		17.35	0.16	2.8	0.052	1.72	12.7	66.0	1.37	1700	5.94	1.75	4.0	64.2	500	20.9
20988		2.97	0.16	0.2	0.108	0.10	4.3	3.0	2.58	2580	4.04	0.06	0.4	116.0	230	23.8
20989		12.85	0.13	2.0	0.100	1.16	12.5	28.8	2.11	1885	3.41	0.76	2.2	65.9	330	44.9
20990		15.60	0.17	2.2	0.053	0.62	21.0	37.3	3.17	4010	1.61	0.41	3.5	100.0	570	39.3
20991		19.60	0.15	4.1	0.048	2.21	32.2	60.1	0.93	801	1.62	1.25	5.0	38.5	1220	23.1
20992		18.65	0.14	3.5	0.033	2.27	25.4	56.5	0.94	831	1.54	1.23	2.5	26.3	670	31.7
20993		18.95	0.15	3.3	0.036	2.42	24.2	52.1	1.10	722	2.19	1.21	2.9	37.3	620	15.8
20994		17.40	0.16	2.3	0.035	2.35	11.1	46.7	2.11	699	3.33	1.05	2.3	31.1	590	20.5
20995		16.20	0.13	2.3	0.026	2.05	10.5	56.9	1.50	908	1.14	0.95	2.1	49.9	490	37.3
20996		20.2	0.13	2.6	0.040	2.46	13.5	53.0	1.37	823	1.71	1.13	2.8	41.4	530	18.6



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		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
20957		35.2	0.002	0.06	0.18	31.7	1	14.7	108.5	0.14	0.11	0.19	0.327	0.21	0.1	193
20958		9.8	<0.002	0.01	0.40	35.8	1	12.6	69.2	0.09	0.08	0.14	0.348	0.09	0.1	188
20959		37.0	<0.002	0.01	0.32	25.9	1	12.1	111.0	0.12	0.05	0.15	0.272	0.22	0.1	154
20960		46.9	0.003	0.01	0.27	33.1	<1	14.2	121.0	0.21	0.09	0.31	0.315	0.29	0.2	175
20961		10.2	0.045	7.92	3.02	8.2	22	2.5	177.5	0.29	3.98	0.94	0.522	0.16	0.3	76
20962		68.7	0.002	0.03	0.25	22.0	<1	3.4	74.3	0.09	<0.05	0.17	0.324	0.50	<0.1	194
20963		46.8	<0.002	0.02	0.19	34.6	<1	2.6	58.5	0.11	<0.05	0.22	0.340	0.33	0.1	203
20964		30.4	0.003	0.13	0.32	35.4	<1	3.7	37.2	0.29	<0.05	1.16	0.627	0.33	0.3	248
20965		37.6	<0.002	0.04	0.16	21.7	1	3.4	45.5	1.03	<0.05	6.59	0.233	0.23	2.2	135
20966		5.5	<0.002	0.02	0.17	18.0	<1	2.5	11.8	0.12	0.05	0.23	0.393	0.06	0.5	238
20967		8.3	<0.002	0.01	0.14	20.0	<1	1.8	12.7	0.10	<0.05	0.24	0.339	0.08	0.7	213
20968		2.1	<0.002	0.04	0.28	28.7	1	1.6	6.2	0.08	0.07	0.14	0.288	0.07	0.6	196
20969		1.9	0.004	0.01	0.30	21.0	1	1.9	7.6	0.11	0.12	0.23	0.346	0.12	2.5	252
20970		9.1	0.003	0.01	0.30	21.0	<1	3.3	13.8	0.11	0.05	0.17	0.321	0.12	0.8	208
20971		4.6	<0.002	0.01	0.14	18.0	<1	5.1	11.4	0.10	<0.05	0.18	0.380	0.08	0.2	224
20972		45.8	<0.002	0.09	0.52	39.1	<1	5.6	78.4	0.19	0.06	0.50	0.430	0.41	0.3	243
20973		34.7	<0.002	0.02	0.39	34.3	<1	4.6	65.6	0.17	<0.05	0.46	0.353	0.30	0.3	196
20974		78.1	<0.002	0.04	1.01	43.1	<1	2.2	99.8	0.11	0.05	0.16	0.460	0.65	0.1	249
20975		0.8	<0.002	<0.01	0.05	0.9	<1	0.2	74.5	<0.05	<0.05	0.07	0.012	<0.02	0.1	6
20976		40.0	0.002	0.11	1.72	42.4	<1	2.1	79.8	0.11	<0.05	0.16	0.465	0.44	0.1	269
20977		66.9	<0.002	0.08	0.76	30.0	<1	3.2	77.5	0.19	0.06	0.29	0.420	0.67	0.1	235
20978		19.0	<0.002	0.15	0.56	26.0	<1	2.3	70.0	0.10	0.05	0.18	0.421	0.25	0.1	246
20979		1.6	<0.002	0.91	0.87	27.8	1	1.2	15.6	0.07	0.11	0.16	0.343	1.71	0.1	200
20980		2.8	<0.002	0.64	0.71	29.7	<1	1.2	16.6	0.08	0.10	0.15	0.358	1.28	0.1	207
20981		10.1	0.045	7.93	3.19	8.3	21	2.5	178.0	0.28	4.22	0.98	0.524	0.17	0.3	76
20982		1.9	<0.002	0.06	0.27	20.6	<1	0.9	54.8	0.28	0.05	2.21	0.401	0.14	0.8	171
20983		82.6	0.007	1.44	0.80	22.5	1	1.1	32.4	0.22	0.20	2.14	0.365	3.52	0.7	163
20984		81.1	<0.002	0.07	0.95	9.5	<1	1.7	133.0	0.41	0.05	3.61	0.253	0.92	0.9	67
20985		63.4	<0.002	0.61	6.34	36.9	<1	1.4	183.0	0.16	0.27	0.65	0.488	0.67	0.2	244
20986		89.5	0.002	1.15	5.28	20.1	2	1.5	150.0	0.32	0.26	2.45	0.388	1.16	0.6	147
20987		77.5	<0.002	1.50	10.15	17.6	1	1.7	153.0	0.30	0.30	2.45	0.405	0.81	0.6	139
20988		6.5	<0.002	>10.0	3.36	5.4	4	1.1	21.8	<0.05	0.34	0.30	0.018	0.65	0.1	32
20989		42.3	0.004	5.19	4.61	17.5	3	2.1	47.7	0.17	0.21	2.74	0.186	0.94	0.8	87
20990		9.5	0.002	3.25	8.72	31.7	1	2.3	89.9	0.25	0.12	3.43	0.292	0.73	0.9	154
20991		82.7	<0.002	0.57	2.43	13.4	<1	1.0	170.0	0.33	<0.05	5.45	0.485	0.83	1.2	148
20992		96.6	<0.002	0.94	3.51	10.2	<1	0.8	109.0	0.18	<0.05	5.09	0.294	0.80	0.7	100
20993		99.2	<0.002	1.05	3.99	13.1	<1	0.8	98.4	0.22	<0.05	4.78	0.314	0.85	0.7	99
20994		78.3	<0.002	0.66	4.04	9.4	<1	1.1	107.0	0.18	<0.05	2.42	0.278	0.78	0.6	115
20995		86.2	<0.002	2.76	7.21	21.5	<1	0.6	100.0	0.16	<0.05	2.39	0.253	0.98	0.6	141
20996		81.5	<0.002	2.83	4.41	13.3	<1	0.9	106.5	0.21	<0.05	2.75	0.290	1.39	0.7	114



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	As-OG62	Cu-OG62	Ni-OG62	CRU-QC	PUL-QC
		W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	As %	Cu %	Ni %	Pass2mm %	Pass75um %
		0.1	0.1	2	0.5	1	0.001	0.001	0.001	0.01	0.01
20957		6.3	14.8	197	14.8					74.8	89.8
20958		2.8	12.9	134	14.2						86.5
20959		3.5	12.0	144	11.0						
20960		8.9	14.4	104	15.5						
20961		2.0	8.4	134	48.0			1.605	4.62		
20962		20.3	14.0	94	16.0						
20963		0.8	17.3	89	13.3						
20964		3.1	27.0	105	80.6						
20965		1.9	31.1	51	61.4						
20966		4.0	5.8	74	25.2						
20967		4.6	7.8	73	20.1						
20968		4.8	18.3	69	16.0						
20969		3.1	6.5	76	20.7						
20970		7.8	7.3	74	21.9						
20971		4.8	11.6	72	23.4						
20972		1.3	21.5	100	18.8						
20973		1.2	15.2	89	17.6						
20974		0.8	16.4	121	16.4						
20975		<0.1	2.1	7	1.9						
20976		1.0	9.0	95	17.1						
20977		0.8	17.0	117	18.7						
20978		1.1	14.0	231	21.1						
20979		1.8	5.5	222	18.3						
20980		1.6	6.9	133	19.5						
20981		2.0	8.6	133	47.7			1.605	4.65		
20982		3.3	8.9	97	103.0						
20983		3.6	9.2	101	74.6						
20984		0.8	12.0	402	131.0						
20985		2.2	18.4	234	24.7						
20986		1.2	14.6	188	108.5						
20987		1.9	12.5	115	108.5						
20988		1.2	10.6	171	7.6						
20989		1.7	10.7	155	79.0						
20990		1.4	20.9	259	90.8						
20991		1.9	15.1	211	159.0						
20992		2.8	10.8	121	136.0						
20993		2.5	10.8	54	131.0						
20994		2.3	9.5	91	87.9						
20995		1.8	13.5	235	90.0						86.8
20996		3.1	13.3	45	98.8					72.5	89.6



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CERTIFICATE OF ANALYSIS SD22059329

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
20997		2.46	0.23	7.78	838	290	0.50	0.06	3.54	0.17	23.0	30.6	54	3.70	25.0	8.02
20998		2.45	0.13	7.62	488	280	0.62	0.06	4.58	0.12	24.0	32.2	49	2.71	24.1	8.22
20999		1.09	0.24	7.84	122.0	330	0.76	0.12	3.74	0.07	24.4	28.3	52	3.50	46.4	8.09
21000		1.25	0.23	7.89	104.5	340	0.76	0.11	3.87	0.08	22.5	24.6	53	3.72	50.7	8.06
21001		0.11	4.20	5.58	13.2	120	0.53	0.80	3.38	1.89	16.50	1005	271	0.72	>10000	18.45
21002		2.51	0.32	7.98	583	340	0.86	0.07	3.42	0.07	25.9	26.9	82	4.54	30.8	5.92
21003		1.78	0.15	7.30	395	150	0.85	0.05	5.96	<0.02	16.95	19.2	74	1.41	27.6	2.48
21004		0.78	0.42	7.93	448	640	1.64	0.23	3.58	0.67	34.1	35.7	105	1.84	54.8	6.67
21005		1.53	0.50	7.71	1170	660	0.71	0.31	2.64	1.22	30.2	35.2	96	2.25	34.8	7.58
21006		1.55	0.75	7.83	670	970	0.87	0.41	3.54	0.40	21.2	15.0	71	2.09	48.0	4.84
21007		1.81	1.29	9.54	455	940	0.81	0.18	2.72	5.20	23.5	22.9	98	3.17	82.3	4.97
21008		1.93	0.99	7.54	927	350	1.10	0.05	4.81	1.15	21.7	39.3	71	2.09	70.6	8.37
21009		2.02	0.75	7.05	669	370	0.98	0.07	6.36	1.51	20.2	25.0	41	1.68	47.1	8.67
21010		2.08	0.88	6.74	3750	190	1.10	0.14	7.29	0.14	21.0	25.8	44	0.82	61.7	9.44
21011		2.15	0.50	7.80	443	190	0.61	0.08	7.33	0.15	21.9	16.8	57	2.16	68.2	9.17
21012		2.18	0.48	7.00	794	160	0.46	0.08	6.52	0.08	16.85	14.8	39	2.08	34.1	10.25
21013		2.12	0.52	6.98	1260	120	0.44	0.07	6.51	0.18	16.20	20.6	57	1.49	69.4	13.15
21014		1.96	1.28	8.13	764	310	0.41	0.04	3.15	0.32	12.25	45.6	71	4.02	190.0	5.72
21015		1.91	0.26	8.90	131.0	380	0.38	0.01	1.76	<0.02	11.00	33.4	74	5.56	37.7	3.29
21016		1.90	0.49	8.37	447	330	0.43	0.05	2.44	0.06	10.50	77.7	76	5.23	130.5	4.31
21017		2.01	0.55	7.77	572	160	0.41	0.13	5.90	0.17	10.40	37.2	66	3.17	219	7.40
21018		1.58	0.72	7.20	932	260	0.37	0.16	4.44	0.25	11.00	48.1	58	3.91	185.5	11.05
21019		0.72	0.47	7.05	2220	200	0.39	0.14	6.49	0.47	10.80	90.4	65	2.70	141.5	9.26
21020		0.83	0.30	7.59	1475	210	0.39	0.10	6.88	0.42	11.90	62.9	61	3.09	102.0	9.54
21021		0.07	>100	4.46	710	220	0.74	60.4	0.62	24.3	30.9	9.3	35	2.57	5160	2.25
21022		2.04	1.14	6.74	426	210	0.56	0.38	6.06	0.35	10.60	45.4	56	2.61	289	12.05
21023		2.09	0.29	8.16	286	200	0.51	0.08	4.81	0.19	11.50	43.5	77	5.07	153.0	9.44
21024		1.95	0.18	7.80	255	270	0.44	0.05	4.74	0.17	10.00	48.8	59	4.53	108.0	7.35
21025		0.55	0.01	0.11	0.7	20	0.07	0.01	31.2	0.02	0.77	1.0	2	0.05	3.7	0.14
21026		2.10	0.37	7.88	274	270	0.47	0.09	5.07	0.25	11.40	48.6	70	4.45	202	10.20
21027		1.66	0.25	7.45	357	460	0.45	0.03	3.86	0.22	9.22	47.3	61	4.45	72.5	7.14
21028		1.12	0.31	8.52	>10000	360	1.42	0.25	4.19	0.15	18.10	45.4	66	3.65	108.5	12.75
21029		0.75	0.29	7.02	>10000	300	0.92	0.13	3.55	0.17	23.6	21.2	53	2.49	69.8	14.35
21030		1.04	0.20	6.89	3060	250	0.77	0.05	5.04	0.27	28.0	21.6	52	3.80	39.3	13.55
21031		1.74	0.40	7.60	1825	390	0.68	0.06	4.72	0.40	31.2	26.4	66	4.92	74.3	10.90
21032		1.50	0.27	7.41	989	210	1.00	0.04	5.10	0.23	26.0	29.7	71	4.18	43.9	10.30
21033		2.17	0.31	7.12	2380	200	0.77	0.06	5.64	0.57	27.9	38.7	67	2.15	57.9	12.35
21034		2.22	0.28	6.83	2510	150	0.70	0.09	5.21	0.34	26.2	29.9	67	3.14	63.4	15.25
21035		2.33	0.24	6.60	2030	190	0.67	0.06	6.05	0.24	27.9	48.0	50	2.52	44.0	13.75
21036		2.68	0.25	6.46	2920	80	0.63	0.07	5.10	0.75	31.6	29.5	25	3.20	46.7	16.90

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



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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units LOD	ppm 0.05	ppm 0.05	ppm 0.1	ppm 0.005	% 0.01	ppm 0.5	ppm 0.2	% 0.01	ppm 5	ppm 0.05	% 0.01	ppm 0.1	ppm 0.2	ppm 10	ppm 0.5
20997		15.75	0.13	2.2	0.029	1.49	11.4	63.0	1.93	1980	1.41	0.72	2.7	55.6	410	6.8
20998		16.70	0.11	2.3	0.032	1.43	11.9	45.7	2.28	1865	1.38	0.75	2.9	62.3	410	3.6
20999		16.65	0.13	2.3	0.036	1.49	11.7	58.7	2.25	1705	2.98	1.17	3.0	50.7	440	5.5
21000		15.85	0.12	2.2	0.030	1.62	10.6	56.1	2.49	1690	1.68	1.04	2.8	53.3	430	5.0
21001		11.70	0.41	1.2	0.116	0.32	6.8	9.8	4.07	1010	4.32	1.21	4.7	>10000	470	12.4
21002		18.10	0.11	2.8	0.028	1.56	11.6	66.2	1.50	1275	3.90	1.68	3.9	44.4	590	17.4
21003		17.80	0.13	2.3	0.030	0.76	6.7	44.2	0.68	545	1.57	2.34	3.0	38.6	490	7.2
21004		21.0	0.15	3.0	0.033	2.43	13.4	94.3	2.63	1250	1.45	2.04	4.3	41.1	960	170.5
21005		19.70	0.16	2.7	0.051	2.36	13.3	95.0	2.89	1695	3.43	1.47	3.9	53.6	750	128.0
21006		17.75	0.20	2.9	0.059	3.51	7.9	84.8	1.73	1170	3.50	0.82	3.9	28.3	580	516
21007		19.30	0.20	3.3	0.050	3.82	10.2	80.9	1.54	1030	3.98	1.65	3.7	46.4	810	376
21008		17.75	0.12	2.0	0.049	1.70	10.9	49.7	2.65	2260	2.05	1.17	2.6	69.4	430	165.5
21009		16.20	0.12	2.0	0.041	1.58	10.7	30.2	3.56	2310	0.49	1.17	2.7	44.2	400	47.3
21010		16.80	0.11	1.8	0.045	0.88	10.6	21.2	3.63	2370	0.82	1.14	2.5	49.6	330	43.7
21011		17.75	0.11	1.7	0.038	0.93	11.2	45.0	3.13	3230	2.11	0.74	2.8	55.0	410	13.3
21012		15.50	0.09	1.6	0.028	0.93	8.4	63.0	2.84	3910	1.10	0.65	2.4	28.8	390	24.9
21013		15.40	0.09	1.5	0.039	0.81	7.4	42.7	3.29	4610	0.54	0.37	2.3	40.7	350	15.4
21014		20.6	0.13	1.3	0.070	1.75	4.3	56.9	1.60	1685	2.03	1.82	2.5	57.3	420	72.2
21015		23.6	0.18	1.3	0.045	2.54	3.5	67.1	1.18	942	0.89	1.52	2.5	36.5	480	5.1
21016		23.5	0.15	1.3	0.063	2.08	3.3	69.6	1.83	887	0.75	1.72	2.3	87.5	510	18.1
21017		19.50	0.13	0.9	0.084	1.14	3.7	36.6	2.82	1805	1.96	1.22	2.1	44.8	420	9.6
21018		18.85	0.13	1.3	0.065	1.71	3.8	43.0	2.95	4250	0.52	0.86	2.5	57.1	330	14.4
21019		17.60	0.11	1.1	0.156	1.27	3.9	21.5	3.43	3140	0.50	0.74	2.2	68.2	300	14.0
21020		18.65	0.11	1.0	0.145	1.31	4.2	28.1	3.75	3300	0.44	0.80	2.4	62.6	360	9.8
21021		21.5	0.18	2.5	5.27	0.70	15.2	21.0	0.20	237	4.71	0.44	7.2	63.6	580	1035
21022		17.25	0.10	1.3	0.110	1.16	4.0	31.1	3.34	3070	0.44	0.72	2.1	63.3	320	10.7
21023		19.90	0.11	1.3	0.083	1.44	4.0	60.7	2.66	2480	0.38	0.93	2.5	59.1	370	6.4
21024		20.2	0.11	1.1	0.081	1.65	3.2	57.3	2.15	2020	0.48	1.13	2.6	62.1	450	6.3
21025		0.34	0.14	<0.1	0.005	0.02	0.9	1.7	2.47	110	0.11	0.03	0.1	2.1	80	1.0
21026		18.90	0.10	1.2	0.089	1.58	3.9	43.3	2.20	2870	0.54	1.18	2.4	67.6	390	6.9
21027		19.80	0.11	0.9	0.084	2.14	3.1	65.9	1.91	2230	0.46	1.16	2.4	58.2	410	28.0
21028		24.9	0.11	2.1	0.075	1.04	6.9	91.8	3.34	3640	0.54	1.45	3.4	64.6	580	32.4
21029		17.45	0.11	2.8	0.060	0.71	9.9	56.1	3.20	5600	0.41	0.60	3.5	45.4	570	20.1
21030		17.70	0.17	2.6	0.049	0.85	12.9	54.5	3.07	5870	1.77	0.66	4.0	49.0	560	16.1
21031		17.85	0.16	2.6	0.049	1.46	15.2	63.4	2.92	4120	1.51	1.09	4.0	63.0	600	59.3
21032		17.25	0.15	2.5	0.045	0.97	11.8	55.6	2.52	3960	1.30	1.08	3.9	74.5	580	23.8
21033		16.75	0.16	2.3	0.047	0.93	13.3	37.1	2.48	5280	1.48	0.79	3.6	98.2	520	37.4
21034		15.35	0.15	2.2	0.058	0.56	12.5	33.6	2.84	5520	1.19	0.77	3.5	62.2	520	45.1
21035		15.05	0.13	2.2	0.043	0.67	13.3	27.9	2.95	5730	1.06	0.80	3.6	103.5	540	21.3
21036		15.90	0.16	3.0	0.064	0.43	14.5	31.3	3.04	7040	1.09	0.67	4.2	44.9	660	14.8



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Sample Description	Method Analyte Units LOD	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	
		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
20997		73.4	<0.002	0.76	4.38	26.3	<1	0.6	125.5	0.20	<0.05	2.20	0.254	0.62	0.6	131
20998		62.2	<0.002	0.49	4.88	20.8	<1	0.6	136.5	0.21	<0.05	2.30	0.252	0.74	0.7	135
20999		63.5	<0.002	1.25	3.94	23.3	<1	1.1	146.5	0.21	<0.05	2.38	0.269	0.95	0.7	138
21000		74.0	<0.002	1.23	3.83	20.4	<1	1.1	130.0	0.20	<0.05	2.29	0.260	0.97	0.7	132
21001		10.0	0.047	8.41	2.76	8.0	22	2.4	181.5	0.30	4.37	1.04	0.536	0.16	0.3	78
21002		58.2	<0.002	1.15	5.53	25.0	1	1.0	177.5	0.26	<0.05	2.61	0.331	1.46	0.9	133
21003		14.6	<0.002	0.34	1.56	10.0	<1	0.8	73.0	0.22	<0.05	1.92	0.311	0.24	0.5	115
21004		44.3	<0.002	1.16	3.65	18.4	1	0.9	80.7	0.27	0.05	2.63	0.460	0.82	0.8	170
21005		69.5	<0.002	0.45	4.58	28.0	1	0.9	117.0	0.28	<0.05	2.88	0.445	1.25	0.7	193
21006		96.4	<0.002	0.12	2.72	15.8	2	1.0	70.7	0.26	0.05	2.77	0.405	0.99	0.6	145
21007		113.0	<0.002	1.22	3.94	18.4	1	1.0	88.0	0.25	<0.05	2.92	0.489	1.30	1.0	182
21008		60.9	0.002	0.78	7.87	25.9	<1	1.9	153.5	0.19	<0.05	2.26	0.363	0.62	0.5	192
21009		56.8	<0.002	0.57	6.65	22.8	<1	1.6	168.5	0.19	<0.05	2.30	0.327	0.51	0.6	174
21010		31.3	<0.002	2.87	13.45	27.3	1	2.3	179.5	0.18	<0.05	2.18	0.310	1.39	0.6	181
21011		36.0	<0.002	1.05	7.63	16.7	1	0.8	190.0	0.21	<0.05	2.13	0.351	0.45	0.6	148
21012		24.5	<0.002	1.29	6.25	11.4	1	0.5	134.5	0.16	<0.05	1.80	0.302	0.50	0.7	102
21013		20.2	<0.002	1.28	8.13	15.0	1	0.6	119.0	0.17	<0.05	1.84	0.310	0.28	0.5	138
21014		72.8	0.003	0.63	5.40	42.3	1	0.5	126.5	0.16	<0.05	0.74	0.628	0.62	0.2	285
21015		130.0	<0.002	0.07	2.35	62.2	<1	0.5	117.0	0.17	<0.05	0.35	0.779	0.90	0.1	407
21016		89.2	0.002	0.30	3.46	74.9	1	0.8	122.0	0.15	<0.05	0.31	0.715	0.78	0.1	400
21017		48.5	<0.002	1.24	5.92	53.3	1	1.8	138.0	0.14	<0.05	0.35	0.608	0.46	0.1	277
21018		58.4	0.002	2.34	6.68	42.9	1	1.0	88.3	0.16	<0.05	0.55	0.616	0.90	0.2	281
21019		64.8	0.002	1.08	10.80	49.9	1	1.6	133.0	0.14	0.05	0.39	0.601	0.66	0.1	303
21020		67.1	0.002	0.61	8.79	43.5	1	1.7	142.0	0.15	<0.05	0.41	0.634	0.53	0.1	294
21021		28.3	<0.002	2.14	83.6	3.9	32	5.2	473	0.58	41.1	6.14	0.219	1.55	2.3	33
21022		49.8	0.002	1.91	8.06	39.6	2	1.6	89.8	0.14	0.21	0.53	0.532	0.56	0.1	254
21023		64.8	0.002	0.51	4.59	45.6	1	0.9	107.5	0.16	<0.05	0.45	0.707	0.55	0.1	330
21024		56.6	0.002	0.10	3.65	53.7	<1	0.8	121.0	0.16	<0.05	0.30	0.699	0.58	0.1	291
21025		0.6	<0.002	<0.01	0.06	0.5	1	<0.2	72.5	<0.05	<0.05	0.06	0.009	<0.02	0.1	3
21026		67.7	0.002	0.76	3.95	43.3	1	1.2	114.0	0.16	<0.05	0.44	0.662	0.61	0.1	300
21027		74.1	0.002	0.11	3.79	42.8	<1	0.7	126.0	0.16	<0.05	0.29	0.684	0.80	0.1	289
21028		37.1	0.002	0.86	8.90	37.9	1	0.9	168.5	0.23	0.17	1.37	0.663	0.36	0.4	282
21029		25.4	<0.002	0.59	8.65	21.2	1	1.0	59.3	0.25	<0.05	2.23	0.411	0.30	0.6	153
21030		26.4	0.002	0.28	9.26	22.9	1	1.2	79.1	0.26	<0.05	2.41	0.404	0.38	0.6	155
21031		56.6	<0.002	0.37	8.72	21.9	<1	1.0	123.5	0.26	<0.05	2.57	0.408	0.75	0.8	156
21032		26.7	<0.002	0.13	8.90	21.1	1	1.8	121.5	0.25	<0.05	2.30	0.419	0.39	0.7	162
21033		29.6	<0.002	0.63	11.60	22.2	1	1.3	145.0	0.23	<0.05	2.35	0.381	0.33	0.7	161
21034		15.8	<0.002	1.38	9.96	20.1	2	1.9	122.0	0.22	<0.05	2.21	0.369	0.53	0.6	152
21035		18.4	<0.002	0.60	11.95	19.5	<1	0.9	117.0	0.23	<0.05	2.27	0.363	0.45	0.6	145
21036		8.6	0.002	0.99	13.70	23.8	1	1.0	60.9	0.28	<0.05	2.40	0.392	0.38	0.7	154



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Sample Description	Method Analyte Units LOD	ME–MS61	ME–MS61	ME–MS61	ME–MS61	Ag–OG62	As–OG62	Cu–OG62	Ni–OG62	CRU–QC	PUL–QC
		W	Y	Zn	Zr	Ag	As	Cu	Ni	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
		0.1	0.1	2	0.5	1	0.001	0.001	0.001	0.01	0.01
20997		0.6	15.6	162	87.5						
20998		0.8	15.2	138	89.3						
20999		1.1	17.8	100	95.3						
21000		1.0	16.6	107	90.6						
21001		2.0	8.5	138	52.3			1.600	4.66		
21002		1.8	14.4	77	100.0						
21003		2.9	8.1	22	91.5						
21004		2.9	16.3	218	123.5						
21005		1.5	17.0	383	112.0						
21006		2.0	16.5	138	116.5						
21007		3.7	15.9	1360	128.5						
21008		1.6	16.3	397	80.3						
21009		0.9	16.5	461	83.2						
21010		1.0	17.4	196	76.6						
21011		1.1	16.9	81	74.6						
21012		1.0	12.5	60	69.3						
21013		0.9	15.1	123	59.5						
21014		2.6	18.7	143	48.8						
21015		1.8	18.1	24	49.4						
21016		2.3	20.0	44	52.1						
21017		13.0	18.7	136	29.0						
21018		3.1	22.7	171	51.6						
21019		1.6	23.9	440	30.0						
21020		2.1	25.3	428	32.4						
21021		12.2	5.7	4130	85.5	118					
21022		1.8	20.4	261	43.0						
21023		1.2	23.6	151	47.2						
21024		0.6	22.1	123	39.2						90.2
21025		<0.1	1.8	6	1.2						
21026		1.0	23.8	162	44.4						
21027		0.9	21.4	134	31.6						90.7
21028		2.7	25.0	123	76.0		2.05				
21029		1.1	20.2	152	112.0		1.160				
21030		0.7	22.4	172	108.5						
21031		0.9	21.4	181	109.5						
21032		0.7	18.8	149	98.0						
21033		0.8	18.6	271	90.4						
21034		0.7	18.2	172	92.0						
21035		0.7	20.5	146	88.4						94.3
21036		0.9	27.5	215	123.0					74.8	89.6



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Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	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
21037		2.75	0.44	6.03	4550	60	0.49	0.13	4.10	0.47	28.7	24.0	35	2.82	61.8	16.00
21038		2.70	0.78	5.92	5500	120	0.52	0.22	5.57	1.14	27.0	49.2	37	1.58	120.0	15.20
21039		1.11	0.68	7.24	3720	350	0.86	0.11	4.41	3.71	30.7	44.3	91	4.16	50.7	10.05
21040		1.14	0.53	7.32	4690	320	0.99	0.11	4.60	1.89	29.7	48.7	96	3.63	41.3	10.40
21041		0.12	4.37	5.59	18.5	120	0.48	0.83	3.55	2.31	18.60	993	264	0.82	>10000	18.40
21042		2.60	0.27	6.84	546	250	1.36	0.25	5.89	0.16	41.1	31.0	179	2.49	69.0	7.96
21043		2.71	0.26	7.67	1070	390	0.74	0.05	4.34	0.27	30.0	22.9	46	5.63	67.8	9.72
21044		2.48	0.21	7.58	1670	320	0.64	0.04	4.90	0.77	29.5	79.2	36	3.84	62.3	7.69
21045		2.67	0.26	7.33	4480	290	0.61	0.06	4.49	0.26	30.6	41.8	42	4.08	49.2	11.10
21046		2.51	0.61	6.28	>10000	130	0.54	0.26	3.66	0.50	26.1	32.7	43	2.79	78.6	13.60
21047		0.82	0.15	7.43	95.6	430	0.82	0.02	2.78	0.11	24.8	9.9	10	6.02	20.9	5.39
21048		1.95	0.10	8.06	100.0	390	0.83	0.04	3.78	0.13	28.8	9.9	10	3.64	23.6	8.30
21049		2.05	0.18	8.03	24.2	340	1.01	0.05	3.59	0.17	26.3	13.8	11	4.54	24.2	8.44
21050		2.67	1.46	7.04	9220	290	0.62	1.23	4.47	3.91	26.9	39.7	57	4.11	131.0	15.45
21051		2.19	0.62	7.45	3370	450	0.65	0.18	4.11	1.25	26.8	40.7	86	5.57	73.6	9.84
21052		2.43	0.53	7.20	4870	490	0.73	0.11	2.22	1.77	26.8	18.2	53	3.96	49.2	7.41
21053		1.24	0.51	6.12	1930	310	0.59	0.06	3.83	4.15	10.75	13.8	42	2.15	32.5	4.60
21054		2.53	0.61	7.50	1030	400	0.88	0.14	2.93	0.89	36.8	22.7	86	2.82	61.6	6.98
21055		2.00	0.45	7.72	459	480	0.55	0.06	4.92	0.68	11.45	51.3	72	4.92	80.0	10.80
21056		1.93	0.99	6.85	7300	240	0.41	0.17	4.62	0.51	18.50	42.6	54	3.61	166.5	14.35
21057		2.57	0.50	7.57	4230	420	0.44	0.14	2.82	0.41	24.9	15.1	15	4.06	39.8	6.35
21058		2.39	0.74	8.15	4700	360	0.47	0.14	1.83	0.22	24.4	10.2	7	4.35	64.8	3.68
21059		0.78	2.48	7.78	1920	650	0.66	0.98	4.78	5.14	10.65	50.0	165	3.03	439	6.52
21060		0.88	2.00	8.54	2150	660	0.81	0.49	5.17	2.56	11.70	54.5	173	3.50	252	6.65
21061		0.11	4.07	5.42	16.2	120	0.48	0.86	3.52	2.22	18.05	967	267	0.79	>10000	18.00
21062		1.88	0.61	8.08	1220	450	0.41	0.14	6.10	0.51	9.01	56.5	162	2.94	197.5	8.66
21063		2.03	0.45	7.73	741	330	0.41	0.13	7.53	0.50	7.90	48.7	136	2.66	152.5	8.10
21064		2.02	0.59	7.86	518	250	0.54	0.37	7.69	0.30	11.15	48.6	127	3.81	188.5	8.12
21065		1.98	0.46	7.48	781	230	0.45	0.18	7.07	0.43	8.05	49.2	98	3.58	157.5	8.77
21066		1.19	0.29	8.12	193.5	180	0.79	0.17	10.50	9.37	14.65	33.5	56	0.54	71.3	5.45
21067		1.84	0.36	7.28	249	300	0.49	0.18	7.59	0.68	6.16	48.0	97	0.75	108.0	9.10



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
21037		14.70	0.13	2.7	0.055	0.34	13.3	32.2	2.63	6470	1.20	0.64	3.8	36.5	580	51.3
21038		14.60	0.14	1.9	0.053	0.64	13.3	28.9	2.98	4970	1.30	0.69	3.3	136.0	490	118.0
21039		16.75	0.12	2.8	0.090	1.34	13.6	64.2	3.02	3820	1.34	1.17	4.0	144.5	680	621
21040		15.20	0.11	2.5	0.073	1.24	12.4	69.0	3.12	3950	1.23	1.16	3.7	156.0	690	220
21041		12.05	0.34	1.3	0.132	0.33	7.7	8.8	4.01	1000	5.70	1.22	5.2	>10000	460	14.6
21042		14.60	0.09	2.4	0.056	1.00	18.0	67.8	4.08	2320	1.72	1.81	3.9	91.0	980	32.0
21043		17.50	0.12	3.0	0.059	1.67	13.8	47.1	2.36	3600	1.68	0.88	4.5	51.1	650	37.6
21044		18.10	0.12	3.1	0.046	1.29	13.4	44.1	1.76	3030	2.72	1.20	4.5	414	700	22.3
21045		16.80	0.11	2.7	0.041	1.30	14.3	41.6	2.22	4310	1.98	0.75	4.2	189.0	630	18.4
21046		14.25	0.14	2.4	0.055	0.68	12.3	36.1	2.31	5320	2.04	0.69	3.5	57.7	610	90.7
21047		17.25	0.11	3.4	0.021	1.99	10.8	57.3	1.30	1555	2.12	0.73	4.3	16.2	640	10.5
21048		18.65	0.13	3.4	0.041	1.84	13.2	64.7	1.60	2810	2.62	0.76	4.5	11.4	870	12.1
21049		18.40	0.12	3.1	0.041	1.52	11.6	65.5	1.67	2770	1.70	1.16	4.5	13.8	860	14.8
21050		16.15	0.14	2.3	0.044	1.28	11.2	69.5	3.40	5450	1.37	0.45	3.6	63.4	580	305
21051		17.85	0.13	2.2	0.050	1.99	12.6	65.2	2.52	3030	3.44	0.92	3.7	69.5	530	120.5
21052		15.55	0.10	2.6	0.037	2.45	11.2	102.5	1.76	2310	4.62	1.00	3.9	32.8	630	148.5
21053		15.70	0.11	1.8	0.042	3.18	4.5	64.6	1.24	970	13.50	0.86	2.7	23.8	400	199.0
21054		17.85	0.12	3.1	0.044	1.84	15.1	83.4	2.04	1575	13.65	2.21	4.4	47.3	790	118.5
21055		20.3	0.12	1.5	0.089	2.09	4.0	41.1	2.76	3400	0.81	0.78	2.8	71.3	390	61.7
21056		16.85	0.15	1.8	0.060	1.17	7.6	37.0	2.60	4750	0.98	0.73	3.2	70.3	410	51.6
21057		17.10	0.12	3.2	0.044	1.90	11.0	52.1	1.67	1810	1.51	1.31	4.2	24.4	750	47.9
21058		19.30	0.13	3.8	0.030	2.78	11.0	39.5	0.73	537	1.66	1.67	4.3	12.2	880	81.1
21059		19.60	0.12	1.0	0.074	2.58	4.0	83.3	2.49	1300	11.45	1.61	2.7	119.0	330	495
21060		18.95	0.12	0.9	0.062	2.67	4.9	101.5	2.51	1290	4.67	1.58	2.5	136.0	300	333
21061		11.70	0.30	1.2	0.125	0.32	7.5	8.6	3.95	990	5.36	1.19	5.0	>10000	460	13.9
21062		17.00	0.10	0.6	0.079	2.03	3.4	46.5	3.32	1685	12.25	1.51	2.3	232	280	47.1
21063		17.10	0.10	0.6	0.079	1.61	2.8	34.2	3.56	1680	0.73	0.95	2.2	126.5	240	62.2
21064		18.15	0.09	0.6	0.083	1.28	3.8	42.0	3.51	1685	1.03	1.04	3.0	102.0	380	38.6
21065		16.80	0.10	0.6	0.067	1.18	3.0	64.4	4.46	1720	0.64	1.18	2.1	75.0	380	20.1
21066		16.60	0.10	1.5	0.055	1.09	6.1	42.9	2.69	1210	0.89	1.28	2.6	45.0	370	323
21067		15.35	0.08	0.5	0.073	1.07	2.4	46.8	4.04	1735	0.24	1.81	1.3	74.4	290	46.1

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



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		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
21037		9.3	<0.002	1.86	12.60	18.0	1	1.0	49.3	0.25	0.05	2.25	0.355	0.53	0.6	128
21038		19.3	0.002	4.88	14.50	16.3	1	1.0	121.0	0.22	0.05	2.06	0.332	1.35	0.5	121
21039		43.5	<0.002	0.60	9.95	19.8	1	1.0	141.0	0.26	<0.05	2.48	0.380	0.53	0.7	143
21040		47.1	<0.002	0.68	9.84	23.0	1	0.9	144.5	0.26	<0.05	2.56	0.388	0.57	0.7	148
21041		10.8	0.051	7.98	3.08	8.2	23	2.6	189.5	0.30	4.53	1.01	0.534	0.17	0.3	79
21042		34.1	<0.002	0.34	4.43	24.0	1	1.3	202	0.24	<0.05	2.59	0.388	0.40	0.8	149
21043		69.1	0.002	0.58	7.72	18.8	1	0.9	147.5	0.28	<0.05	2.66	0.421	0.87	0.8	147
21044		42.6	0.004	0.22	9.66	17.3	1	0.8	174.0	0.29	<0.05	2.43	0.382	0.51	0.7	125
21045		51.3	0.002	0.83	9.84	18.4	1	0.8	114.5	0.26	<0.05	2.47	0.396	0.61	0.7	138
21046		26.5	0.002	2.94	15.20	15.9	1	0.9	81.0	0.23	0.06	2.16	0.326	0.61	0.6	119
21047		70.0	0.002	0.26	1.60	6.2	1	1.0	123.5	0.28	<0.05	1.97	0.191	0.87	0.6	39
21048		68.9	<0.002	0.60	2.77	7.4	1	1.2	134.0	0.29	<0.05	2.22	0.212	0.75	0.7	43
21049		49.2	<0.002	0.56	3.10	8.4	1	1.0	158.0	0.28	<0.05	2.10	0.222	0.65	0.7	55
21050		55.2	<0.002	3.77	10.05	21.6	<1	0.9	87.5	0.24	0.13	2.34	0.393	1.89	0.6	155
21051		94.3	0.002	1.33	7.13	23.6	1	0.9	105.0	0.23	0.07	2.00	0.428	1.11	0.6	165
21052		102.0	<0.002	1.03	7.48	19.0	1	0.7	91.2	0.27	0.05	2.52	0.415	1.22	0.7	143
21053		100.5	<0.002	0.48	3.88	12.9	1	0.5	28.4	0.17	<0.05	1.72	0.285	1.14	0.5	104
21054		67.6	<0.002	1.09	3.27	19.9	1	0.8	134.5	0.28	<0.05	2.92	0.425	2.85	0.8	161
21055		86.7	0.002	0.72	4.45	44.6	1	0.8	84.8	0.17	<0.05	0.45	0.666	0.89	0.3	302
21056		43.6	<0.002	3.70	9.85	26.2	2	0.7	81.1	0.20	0.09	1.58	0.451	1.09	0.4	195
21057		76.3	<0.002	1.43	5.73	8.3	1	1.0	114.5	0.27	0.05	2.10	0.236	1.20	0.6	61
21058		85.2	<0.002	1.80	6.30	7.4	1	0.9	106.5	0.27	<0.05	2.27	0.213	0.85	0.7	42
21059		61.6	0.003	0.50	3.84	38.2	2	0.8	119.5	0.16	0.10	0.37	0.542	1.11	0.1	286
21060		97.1	0.003	0.59	3.95	49.3	1	0.8	116.5	0.17	0.12	0.38	0.594	1.12	0.1	304
21061		10.6	0.050	7.97	3.03	8.0	22	2.5	183.0	0.30	4.27	1.02	0.521	0.18	0.3	78
21062		87.0	0.003	0.87	3.73	45.5	1	0.8	111.5	0.13	0.06	0.22	0.572	1.19	0.1	291
21063		83.9	0.002	0.34	3.30	41.5	1	1.0	132.5	0.13	<0.05	0.21	0.550	0.66	0.1	274
21064		58.1	0.002	0.46	2.51	43.3	1	2.5	149.0	0.17	<0.05	0.30	0.626	0.46	0.1	290
21065		59.8	0.003	0.25	2.17	48.2	1	1.1	117.5	0.12	0.09	0.29	0.585	0.53	0.1	301
21066		34.4	<0.002	0.16	0.66	31.2	1	1.3	39.8	0.19	<0.05	1.27	0.442	0.29	0.3	222
21067		50.1	<0.002	0.05	1.04	48.0	1	1.1	92.2	0.08	<0.05	0.12	0.556	0.34	<0.1	310



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

Page: 4 – D
 Total # Pages: 4 (A – D)
 Plus Appendix Pages
 Finalized Date: 5-APR-2022
 Account: BMRPLLW

Project: McAra Resource – MCD22-062

CERTIFICATE OF ANALYSIS SD22059329

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	As-OG62	Cu-OG62	Ni-OG62	CRU-QC	PUL-QC
		W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	As %	Cu %	Ni %	Pass2mm %	Pass75um %
		0.1	0.1	2	0.5	1	0.001	0.001	0.001	0.01	0.01
21037		1.1	22.3	162	112.0						
21038		0.8	19.7	390	74.3						
21039		0.9	20.3	1020	110.0						
21040		0.9	20.3	599	97.8						
21041		2.1	9.6	140	56.2			1.610	4.57		
21042		1.0	20.2	110	96.7						
21043		1.1	20.1	146	119.0						
21044		0.8	19.3	318	131.0					71.1	
21045		1.8	21.1	155	110.0						
21046		1.0	19.5	189	99.8		2.02				
21047		0.4	14.9	86	157.0						
21048		0.9	20.2	91	155.0						
21049		0.7	18.8	127	141.5						
21050		1.1	23.6	936	88.7						
21051		1.0	22.3	407	79.4						
21052		1.2	18.9	423	92.8						
21053		1.2	12.6	841	70.5						
21054		1.6	18.7	218	122.5						
21055		1.2	24.6	205	54.7						
21056		1.5	21.0	165	62.5						
21057		1.8	16.3	142	141.5						
21058		5.5	14.6	90	168.5						
21059		2.7	18.6	967	41.1						
21060		3.1	23.1	553	30.7						
21061		2.1	9.4	135	51.6			1.610	4.60		
21062		2.8	21.3	214	14.8						
21063		2.0	21.0	193	13.6						
21064		17.2	22.9	136	16.3						
21065		1.5	22.3	174	13.6						
21066		1.8	19.2	1715	58.4						
21067		1.9	22.3	206	11.1						



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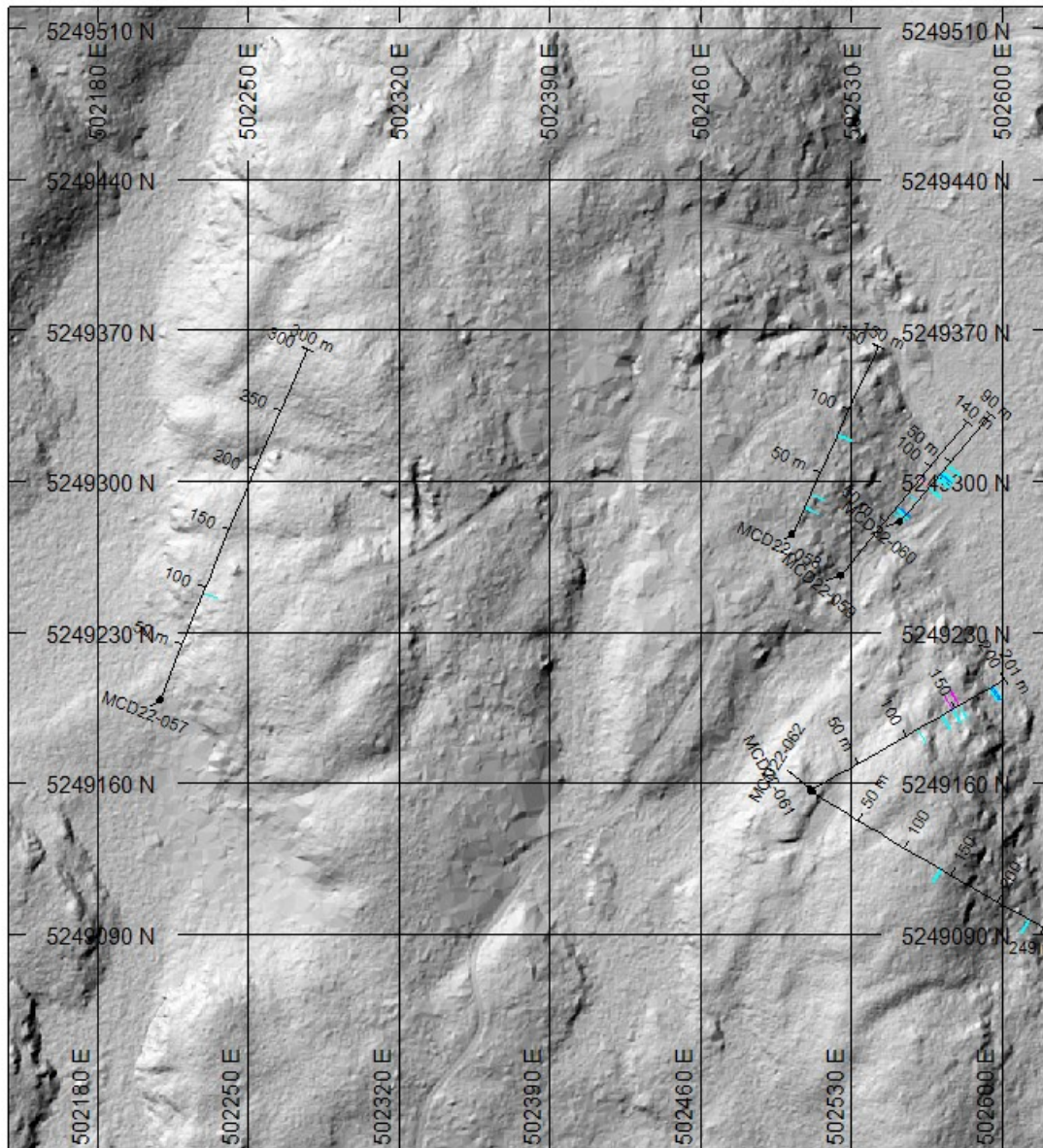
To: NORTH AMERICAN COBALT – BATTERY
 MINERALS RESOURCES
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Page: Appendix 1
 Total # Appendix Pages: 1
 Finalized Date: 5-APR-2022
 Account: BMRPLLBW

Project: McAra Resource – MCD22-062

CERTIFICATE OF ANALYSIS SD22059329





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



HOLES PLOTTED

TOTAL 6

MCD22-057	MCD22-058	MCD22-059	MCD22-060
MCD22-061	MCD22-062		

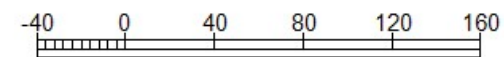
NUMBER BANDS	L/R	PATTERN	RANGE
Ag_(ppm)	L		2 to 7
			7 to 30
NUMBER BANDS	L/R	PATTERN	RANGE
Co_(ppm)	R		200 to 500
			500 to 1000

PLAN SPECS:

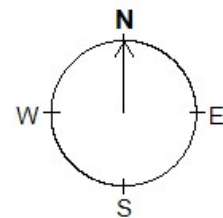
REF. PT. E, N 502400 m 5249000 m
 EXTENTS 482.5 m 601.3 m

SCALE 1 : 3700

(m)



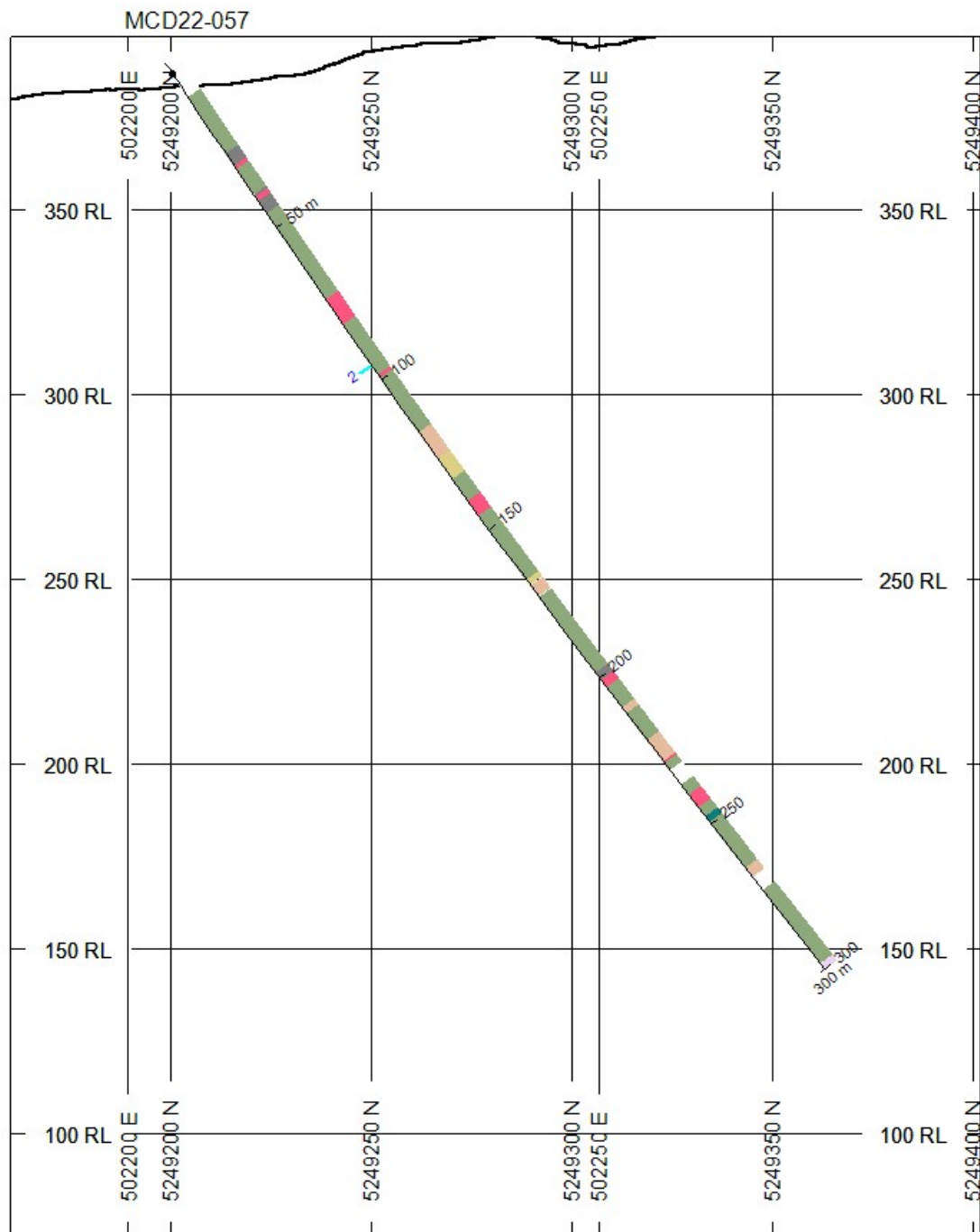
NAD83(2011) / UTM zone 17N



Battery Mineral Resources Corp.

McAra

Plan View - 2022 Diamond Drill Holes



HOLES PLOTTED

TOTAL 1

MCD22-057

TOPOGRAPHY

— Elevation.GRD

NUMBER BANDS	L/R	PATTERN	RANGE
Ag_(ppm)	L		2 to 7

ROCK CODES	PAT	LABEL
Lithology		Overburden
		Quartz-Carbonate Vein
		Iron Formation
		Argillites
		Greywackes
		Cherty Metasediments
		Felsic Dyke
		Ultramafic Intrusive
		Diabase
		Mafic Volcanics
		Fault
		Fault Breccia

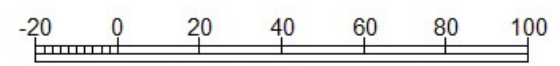
ASSAYS	L/R	TEXT	RANGE
Ag_(ppm)	L		Min 2
Co_(ppm)	R		Min 200

SECTION SPECS:

REF. PT. E, N	502239 m	5249281 m
EXTENTS	262.8 m	325 m
SECTION TOP, BOT	397.2 m	72.2 m
TOLERANCE +/-	23.55 m	

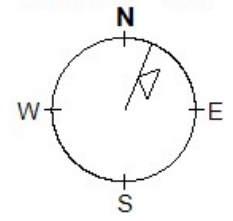
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(m)



NAD83(2011) / UTM zone 17N

AZIMUTH = 23.1°

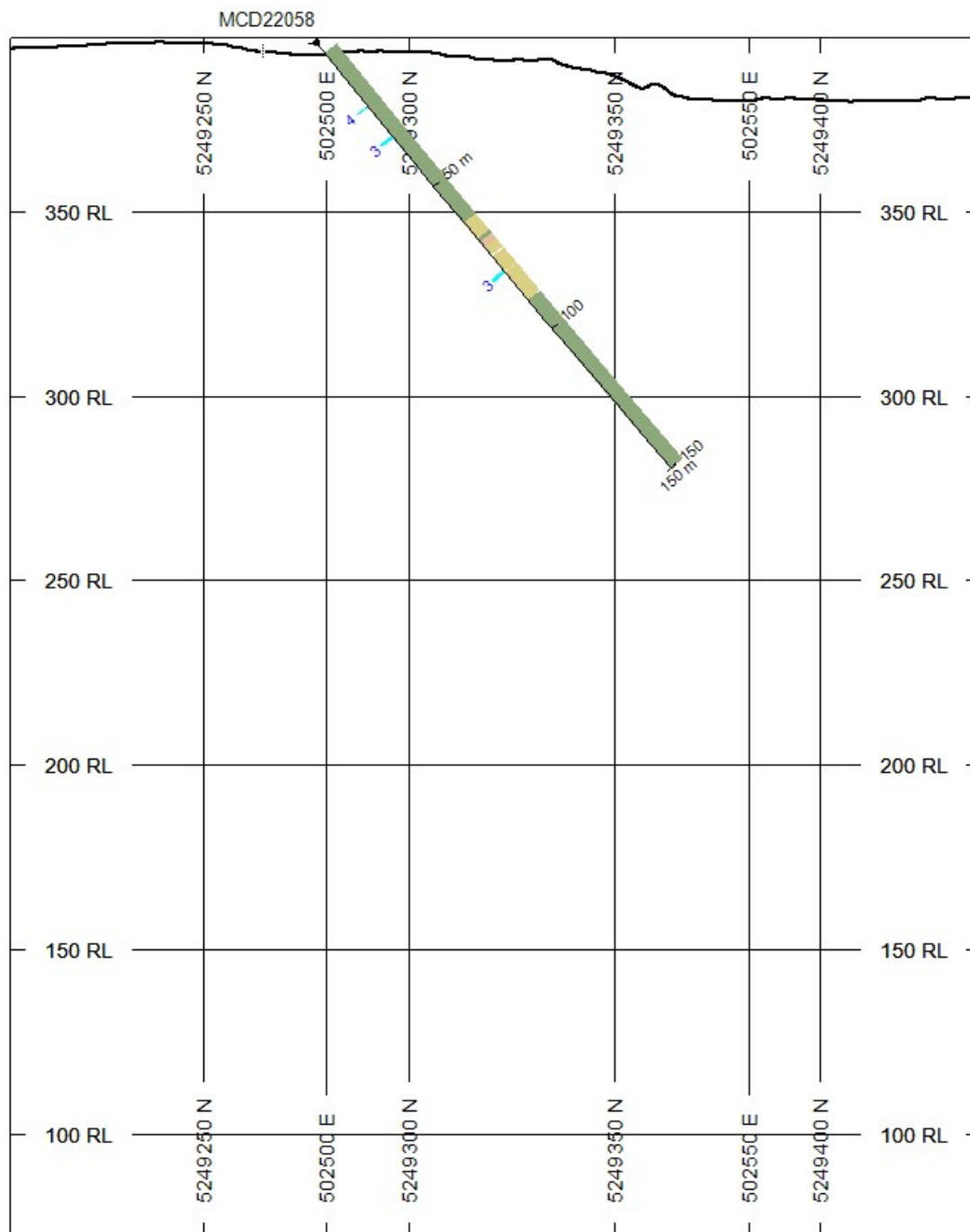


BMR - McAra 2022 Drilling

MCD22057

Depth: 300m

Az:21.2 Dip:-56.2



HOLES PLOTTED

TOTAL 1

MCD22-058

TOPOGRAPHY

— Elevation.GRD

NUMBER BANDS	L/R	PATTERN	RANGE
Ag_(ppm)	L		2 to 7

ROCK CODES	PAT	LABEL
Lithology		Overburden
		Quartz-Carbonate Vein
		Carbonate Vein
		Argillites
		Greywackes
		Cherty Metasediments
		Mafic Volcanics
		Coarse Grained Flow

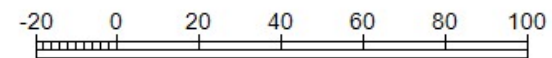
ASSAYS	L/R	TEXT	RANGE
Ag_(ppm)	L		Min 2
Co_(ppm)	R		Min 200

SECTION SPECS:

REF. PT. E, N	502520 m	5249321 m
EXTENTS	262.8 m	325 m
SECTION TOP, BOT	397.2 m	72.2 m
TOLERANCE +/-	16.1 m	

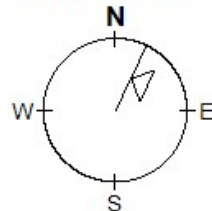
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(m)



NAD83(2011) / UTM zone 17N

AZIMUTH = 25.9°

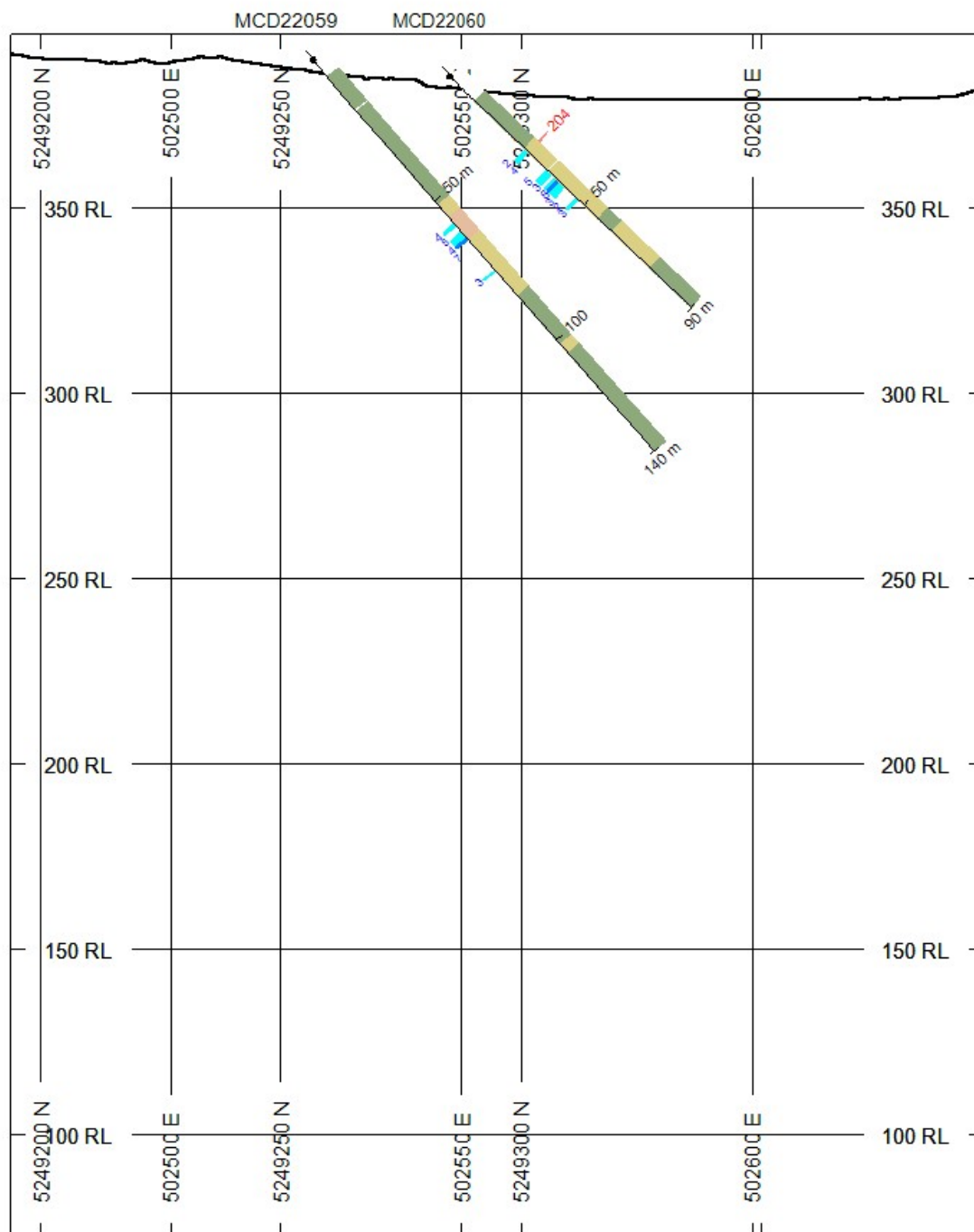


BMR - McAra 2022 Drilling

MCD22058

Depth: 150m

Az: 24.6 Dip: -51.1



HOLES PLOTTED

TOTAL 2

MCD22-059 MCD22-060

TOPOGRAPHY

— Elevation.GRD

NUMBER BANDS	L/R	PATTERN	RANGE
Ag_(ppm)	L		2 to 7 7 to 30

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

ROCK CODES	PAT	LABEL
Lithology		Overburden
		Quartz-Carbonate Vein
		Argillites
		Cherty Metasediments
		Mafic Volcanics
		Coarse Grained Flow
		Fault

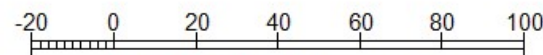
ASSAYS	L/R	TEXT	RANGE
Ag_(ppm)	L		Min 2
Co_(ppm)	R		Min 200

SECTION SPECS:

REF. PT. E, N 502556 m 5249295 m
 EXTENTS 262.8 m 325 m
 SECTION TOP, BOT 397.2 m 72.2 m
 TOLERANCE +/- 16.1 m

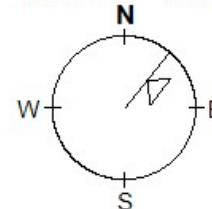
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(m)



NAD83(2011) / UTM zone 17N

AZIMUTH = 39.5°

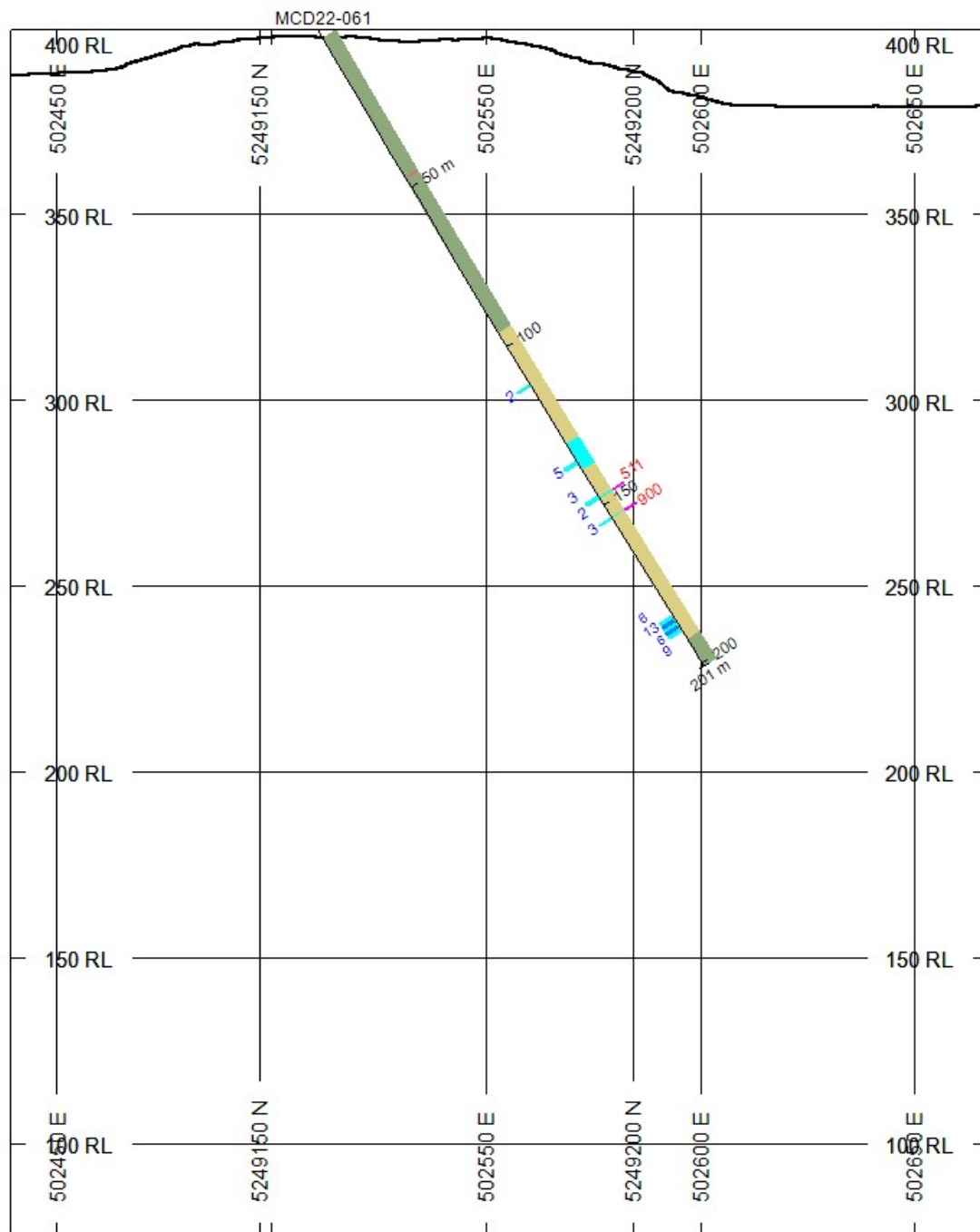


BMR - McAra 2022 Drilling

MCD22059 & MCD22060

Depth:140m & 90m

Az:39.93 & 40.15 Dip:-49.54 & -43.75



HOLES PLOTTED

TOTAL 1

MCD22-061

TOPOGRAPHY

— Elevation.GRD

NUMBER BANDS	L/R	PATTERN	RANGE
Ag_(ppm)	L		2 to 7 7 to 30

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

ROCK CODES

Lithology	PAT	LABEL
Overburden		Overburden
Cobalt Vein		Cobalt Vein
Cobalt Zone		Cobalt Zone
Sulphide Zone		Sulphide Zone
Greywackes		Greywackes
Cherty Metasediments		Cherty Metasediments
Felsic Dyke		Felsic Dyke
Mafic Volcanics		Mafic Volcanics
Coarse Grained Flow		Coarse Grained Flow

ASSAYS

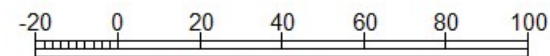
ASSAYS	L/R	TEXT	RANGE
Ag_(ppm)	L		Min 2
Co_(ppm)	R		Min 200

SECTION SPECS:

REF. PT. E, N 502553 m 5249182 m
 EXTENTS 262.8 m 325 m
 SECTION TOP, BOT 400 m 75 m
 TOLERANCE +/- 15.2 m

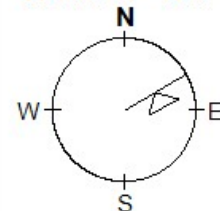
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(m)



NAD83(2011) / UTM zone 17N

AZIMUTH = 60.1°

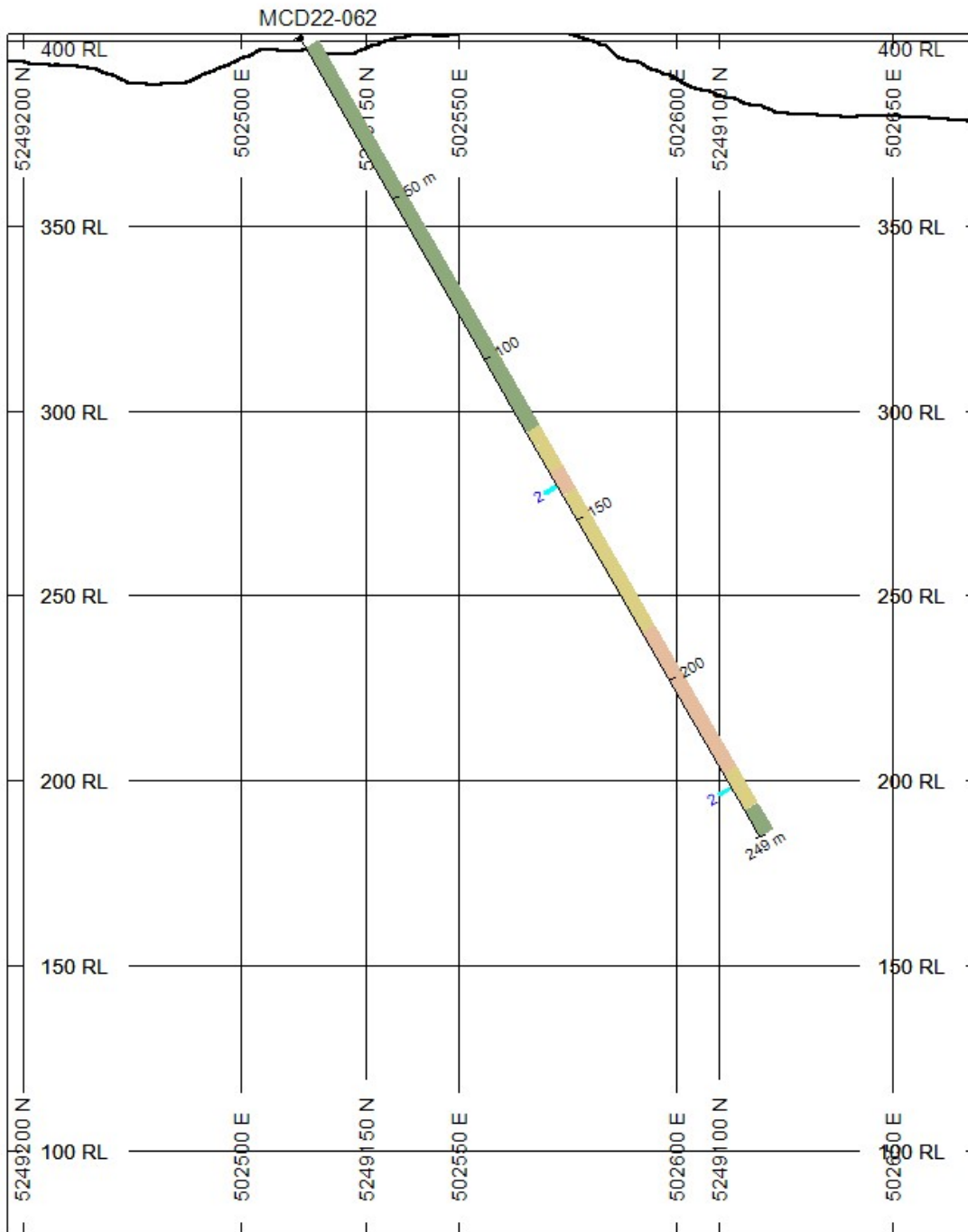


BMR - McAra 2022 Drilling

MCD22061

Depth:201m

Az:61.4 Dip:-60.1



HOLES PLOTTED

TOTAL 1

MCD22-062

TOPOGRAPHY

— Elevation.GRD

NUMBER BANDS	L/R	PATTERN	RANGE
Ag_(ppm)	L		2 to 7

ROCK CODES	PAT	LABEL
Lithology		Overburden
		Argillites
		Greywackes
		Cherty Metasediments
		Mafic Volcanics
		Coarse Grained Flow

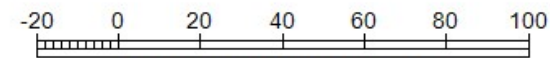
ASSAYS	L/R	TEXT	RANGE
Ag_(ppm)	L		Min 2
Co_(ppm)	R		Min 200

SECTION SPECS:

REF. PT. E, N	502558 m	5249132 m
EXTENTS	262.8 m	325 m
SECTION TOP, BOT	402 m	77 m
TOLERANCE +/-	15.7 m	

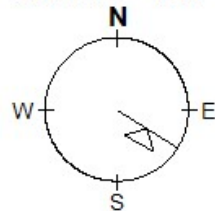
SCALE 1 : 2000

(m)



NAD83(2011) / UTM zone 17N

AZIMUTH = 121.7°



BMR - McAra 2022 Drilling

MCD22062

Depth:249m

Az:121.8 Dip:-60.4