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**MAPPING AND PROSPECTING PROGRAM 2022**

**DOG LAKE PROPERTY**

**Fulcrum Metals (Canada) Ltd.**



**Copenace, Echum and Marsh Townships**

**NTS Sheet# 042C01 & 042C08**

**SAULT STE. MARIE MINING DIVISION**

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## Summary

Between July 23<sup>rd</sup> and August 4<sup>th</sup>, 2022, a Prospecting Program was undertaken on the Dog Lake property, owned 100% by Fulcrum Metals Canada. Bayside Geoscience of Thunder Bay, ON was contracted to complete the work and staffed the project with Joseph Suk and Ben McSheffrey (Geologist-In-Training), Sam Ghantous (Field Assistant) and Steven Flank, P.Geol (Project Manager).

The objective of the program was two-fold.

- To locate and sample four historic mineral occurrences and the surrounding areas: Anglehart Discovery Prospect (Au), Gilbert Option (Au), Hand Lake Occurrence (Ni-Cu) and Sample 16JW584 (Ni-Cu)
- To prospect and sample magnetic anomalies believed to be related to mafic-ultramafic intrusions, such as those hosting Ni mineralization directly to the east of the property on Pickle Lake

The 2022 Dog Lake exploration program was a successful first pass phase of exploration that resulted in the following conclusions:

- The Anglehart and Gilbert showings are mislocated compared to coordinates on the Mineral Deposit Inventory. The Gilbert showing was located 500m south of the documented location while the Anglehart showing was not located in this campaign.
- The locations of the Hand Lake showing and Sample 16JW584 were located and sampled, returning anomalous Cu mineralization but no PGE enrichment.
- Magnetic anomalies in the south of the property are related to mafic-ultramafic intrusions comprised of gabbro, hornblende gabbro, hornblendite and pyroxenite.
- Ultramafic intrusives are confirmed by the presence of high Ni, Mg and Cr.
- No significant sulfide or Ni-Cu-PGE mineralization was returned from the sampling.

In light of these observations the following follow up work is recommended:

- Additional prospecting focussed on locating the Anglehart showing is warranted based on the historical documentation of sampling in the area.
- An airborne EM survey is warranted on the property to assess the mafic-ultramafic intrusions across the property for accumulations of Ni-Cu-PGE mineralization. Nearby mineral occurrences on the south side of Pickle Lake, less than 1km east of the property, report hand samples with up to 0.44% Ni from serpentinized ultramafic intrusions. This work would be followed by ground truthing of any EM anomalies.

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## Property Description and Location

### Location and Access

The Dog Lake property is approximately 15km south of Missanabie, Ontario, a Missanabie Cree First Nation community located on the northeastern shore of Dog Lake and approximately 101km northeast of Wawa, Ontario (Figure 1). The property is situated in the Sault Ste. Marie Mining Division within the Copenace, Echum and Marsh townships.

The field crew stayed at a cabin owned by Northern Wilderness Cottage. From the cottage, Curran St. was taken southeast for approximately 120m and a left turn was taken on 1<sup>st</sup> St. After approximately 343m, a slight right turn was taken to get onto Hwy 651 E. After approximately 2.3km a junction was intersected, and a right turn was taken to onto Highway ON-651 E. The center of the Dog Lake property is about 12.5 from the Hwy 651 and Highway ON-651E junction. Most of the Dog Lake property is accessible via Highway ON-651E and there are multiple offshoot gravel/dirt roads from the highway to access the easternmost sections of the property (Figure 2).

### Claim Status

The Dog Lake property consists of 172 single cell mining claims (SCMC) spanning approximately 3,701ha (Figure 2). The claims are 100% owned by Fulcrum Metals (Canada) Ltd. At the date of this report, all claims are active and in good standing. A list of all claims that comprise the Dog Lake Property are included in Appendix A.



Figure 1: Dog Lake Property Location

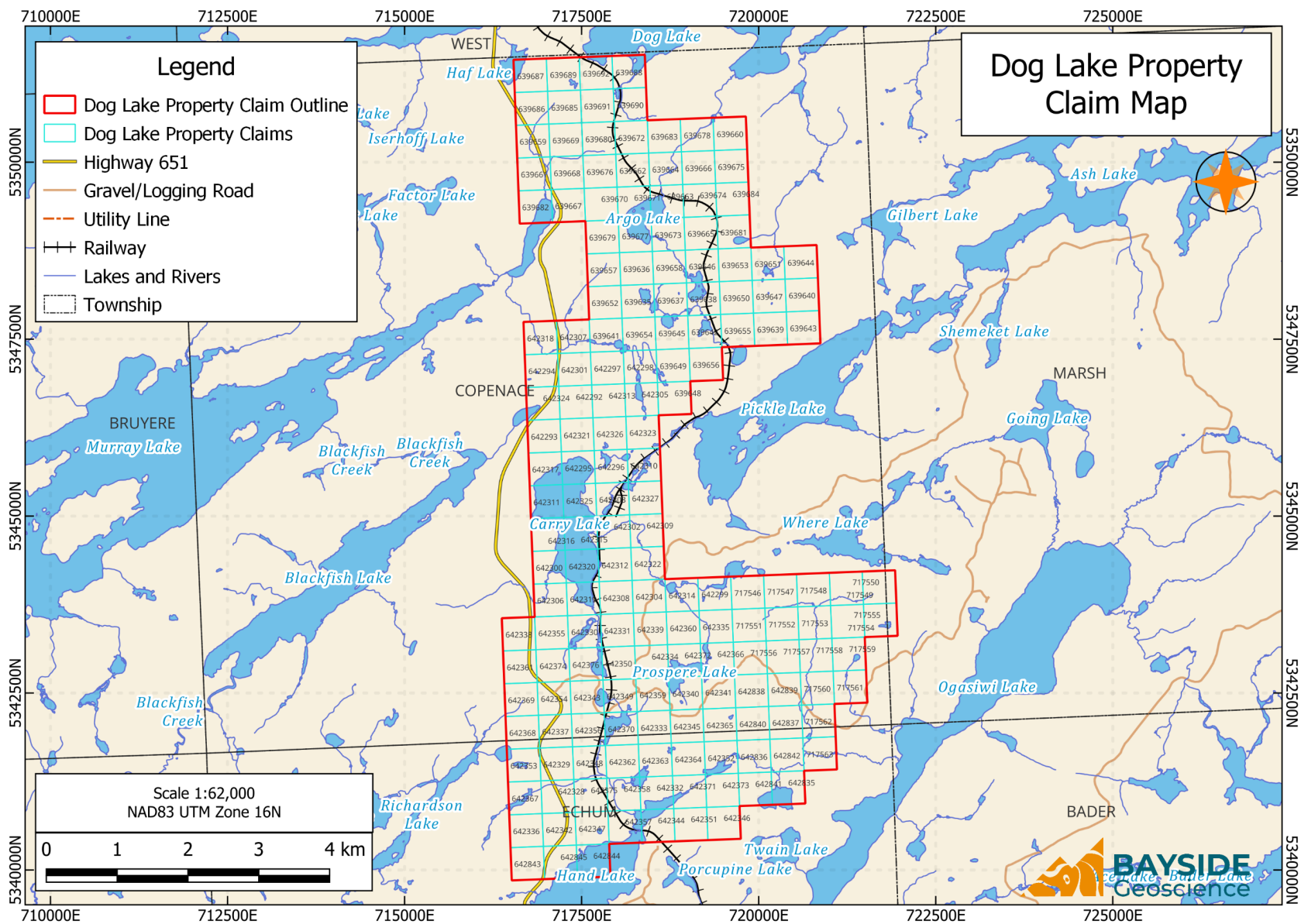


Figure 2: Dog Lake Property Claim Map

## History

A summary of historical work completed on the Dog Lake Property is shown in Table 1 below.

Year	Company	Title	Assessment ID
1944	Sylvanite Gold Mines	Miscellaneous Documents and report on Gilbert Option Township	Assessment 42C08SE8841
1960	Canadian Pacific Railway Co.	Geology of The Lochalsh-Missanabie Area	Assessment Report 42C08NE0039
1962	J Macintosh	Report on Reconnaissance Geological Mapping	Assessment Report 42C08NE0150
1962	Algoma Central Railway	General Geology Summary	Assessment Report 42C01NE0426
1974	R. Rupert	File note RE sequence of basic igneous Rocks	Assessment Report 42C01NE8840
1976	Cordell Gold Mines Ltd	Report on a Scheelite bearing vein at Cordell Gold Mines Ltd	Assessment 42C01NE8675
1983	Tundra Gold Mines Ltd.	Report on Combined Helicopter-borne mag EM and VLF survey	Assessment 42C01NE0400
1984	Tundra Gold Mines Ltd.	Report on Combined Helicopter-borne magnetic, electromagnetic and VLF-EM Survey North Copenace	Assessment 42C01NE0425
1984	Tundra Gold Mines Ltd.	Report on combined helicopter-borne mag/em/vlf survey - dolson group	Assessment 42C01SE003
1986	Golden Vale Exploration Corp	Report on the Diamond Drilling on the Manitowik L Property	Assessment Report 42C01NW0402
1990	J Anglehart	Report on Prospecting Activities Anglehart property	Assessment Report 42C01NE0423
1990	Anglo Porcupine Gold Mines Ltd.	Report on Geology and Soil Geochemistry - 1988 Exploration program	Assessment Report 42C01NE0424
1990	Anglo Porcupine Gold Mines Limited	Report on Geology and Soil geochem - 1988 Exploration program	Assessment 42C01NE0424
1992	A. K Siltamaki	OPAP OP91-750 Final Report	Assessment Report 52A10NW9275
1995	Consolidated Cline Development Corp	Untitled Work report Showing Drill Locations Sections	Assessment Report 42C01NE0007
1996	Consolidated Cline Development Corp, D Patrie	Untitled Drill Logs Sections locations assays	Assessment 42C01NE0004
2007	Chalice Diamond Corp	Maps to report on a helicopter borne VFTM Survey Wawa project (report below)	Assessment File 20000000041
2007	Chalice Diamond Corp	Report on a helicopter borne VTEM Survey Wawa project	Assessment File 20000000041
2007	Golden Chalice Resources Inc	Till Sample Survey	Assessment 20000002483
2008	Chalice Diamond Corp	Maps for Helicopter-borne VTEM Geophysics Survey Chapleau Main blocks chalice diamond corp	Assessment File 20000000060
2008	Chalice Diamond Corp	Helicopter-borne VTEM Geophysics Survey Chapleau Main blocks chalice diamond corp	Assessment File 20000000060
2009	C James Laidlaw, Chalice Diamond Corp, Golden Chalice Resources Inc, Gord Hume, Graham Stone, Joe Mihelcic, Michael A Tremblay, Rudolf Wahl, Terrence Stanley Nicholson	Prospecting Report	Assessment 20000003905
2009	Chalice Diamond Corp	Till Sample Survey	Assessment 20000004067



## Geology

### Regional Geology

The Dog Lake property is situated within the southeastern limb of the Michipicoten (Wawa) Greenstone belt, in Copenace, Marsh and Echum Townships. The Michipicoten greenstone belt is situated within the Wawa-Abitibi terrane of the Wawa subprovince that contains a wide variety of supracrustal rocks composed of volcanic and sedimentary stratigraphy. These supracrustal rocks have been subjected to multiple phases of deformation and plutonism as well as a period of regional metamorphism that overprints the earlier granitic magmatism.

The Michipicoten supracrustal rocks are regionally metamorphosed to the greenschist facies with amphibolite facies rims likely related to aureoles of contact metamorphism associated with the emplacement of the younger external granites (Sage, 1994). The supracrustal volcanic and sedimentary sequences are pervasively carbonate altered and extends from the north side of Wawa Lake towards Goudreau and Lochalsh. Sage (1994) note that a possible third period of carbonate alteration may occur consanguineous with gold veining – which predominately consists of ankerite and lesser calcite.

Sage (1994) notes that the Michipicoten supracrustal rocks has a long history of iron and gold mining beginning in the 1900's. Most notably, Sage (1994) notes that shear zone hosted gold-bearing quartz veins are the most principal targets of mineral exploration and are wide-spread throughout the Michipicoten supracrustal rocks. Within the Wawa area, Sage (1994) note that gold deposits occur in 2 dominant styles. Between Wawa and Hawk Junction, gold occurs in local shear zones located along the margins and adjacent to the margins of the Jubilee Lake Stock and Hawk Lake granitic complex. The second style of gold deposits is associated with regional deformation zones and associated alteration (Arias and Heather, 1987; Heather and Arias, 1987). In both cases, the gold mineralization occurs primarily within quartz veins.

### Local Geology

The Dog Lake property is located within the Copenace and Echum Townships, but mostly within the Copenace Township. This township underwent geological mapping at a scale of 1:20 000 (Walker and Robichaud, 2018) along with a characterization of the major rock units/stratigraphy and an evaluation of the mineral potential in the area (Walker and Robichaud, 2016). The Copenace Township is located within the eastern Michipicoten greenstone belt and consists of a centrally located north-trending package of mafic metavolcanic and metagabbroic rocks bounded by Archean intermediate to felsic plutonic rocks (Ash Lake pluton and the Missinaibi Lake batholith) (Walker and Robichaud, 2016). All major rock types are crosscut by Proterozoic mafic dykes, as seen in P3814 (Walker and Robichaud, 2016; Walker and Robichaud, 2018). Within the Copenace Township, the dominant foliation is north trending and is best displayed in the mafic metavolcanic rocks but is also present in the Archean mafic to intermediate intrusive rocks. Faults of various scales are also present throughout the township.

Anglehart and Slack (1990) note that the Anglehart property (northwestern part of the Dog Lake property) was staked after the discovery of a large, silicified quartz stockwork system was discovered. This stockwork system strikes roughly north-south and is approximately 50 feet wide and roughly 800 meters long. This stockwork zone is open along strike in both directions and is hosted in light green silicified volcanics. 19 samples taken over the strike length returned Au values ranging from trace to 0.167 oz/t, with most values falling between 0.010 and 0.030 oz/t Au.

## Mineralization

Within the Dog Lake property, 2 known Gold and Copper occurrences are noted within the Ontario Ministry of Northern Development, Mines, Natural Resources and Forestry's Ontario Mineral Inventory Database (Figure 3). The 2 gold occurrences occur within the northern portion of the property and are called the Anglehart/Discovery occurrence and the Gilbert occurrence.

### Anglehart Discovery Prospect

This gold and copper occurrence was discovered in 1988 in the Catfish tectonic assemblage. This occurrence consists of a silicified quartz stockwork within mafic metavolcanic rocks that strikes roughly north and is roughly 50 ft in width. The vein is folded and plunges approximately 50° SE. Within the area of this gold occurrence, Anglehart and Slack (1990) collected grab samples that returned values ranging from trace to 0.167 oz/t Au (4.734 g/t Au). Most of the assay values fall within the range of 0.01 and 0.06 oz/t Au (0.283 g/t Au – 1.700 g/t Au). Copper assays range from 14 ppm – 2166 ppm Cu.

### Gilbert Prospect

The Gilbert prospect is a gold showing that's found in a quartz vein within a weakly carbonated shear zone about 0.25 miles north of a granitic body. This showing was discovered in 1944. The shear zone itself is hosted within altered mafic metavolcanic rocks. Subsequent blasting and thorough sampling completed in 1944 by Sylvanite Gold Mines Ltd was not able to demonstrate any appreciable gold values. It's suggested that prospecting in the area between the gold showing and the granite contact might show something of interest as several small fracture zones are noted within the area.

### Sample 16JW584

This copper occurrence is from a sample collected from a chalcopyrite-bearing veinlet that returned 3474 ppm Cu (refer to MRD 348) on the north end of the outcrop exposed along highway 651.

### Hand Lake Occurrence

This copper-nickel occurrence is hosted within a coarse-grained biotite pyroxenite or lamprophyre. The associated grab sample collected by the OGS in 1979 returned an assay of 0.14% Cu and 0.01% Ni.

## 2022 Prospecting Program

### Summary

Between July 23<sup>rd</sup> and August 4<sup>th</sup>, 2022, a Prospecting Program was undertaken on the Dog Lake property. Bayside Geoscience of Thunder Bay, ON was contracted to complete the work and staffed the project with Joseph Suk and Ben McSheffrey (Geologist-In-Training), Sam Ghantous (Field Assistant) and Steven Flank, P.Geo (Project Manager). Daily Logs for the crew's activities are included in Appendix B.

The objective of the program was two-fold.

- To locate and sample four historic mineral occurrences and the surrounding areas: Anglehart Discovery Prospect (Au), Gilbert Option (Au), Hand Lake Occurrence (Ni-Cu) and Sample 16JW584 (Ni-Cu)
- To prospect and sample magnetic anomalies believed to be related to mafic-ultramafic intrusions, such as those hosting Ni mineralization directly to the east of the property on Pickle Lake

The crew collected 138 field stations and 59 samples were collected and submitted for analysis (Figure 4).

### Sampling Methodology and QAQC

Rock samples were collected by field personnel utilizing rock hammers and placed into sample bags labelled with unique station ID's and sample numbers. The station ID naming scheme was based on the property name, the geologist's initials, and the station number. Field personnel recorded sample information, geological observations and photographs at each sample station. The QField data collection application was utilized to record all of this data. A Garmin 64x handheld GPS was used to record station coordinates for each sample and station.

### Assay Methodology

The samples were sent to Activation Laboratories Ltd. in Thunder Bay, Ontario for Fire Assay while Ultratrace ICPMS was performed at Activation Laboratories Ancaster ON location. A total of 59 samples from Dog Lake were submitted for analysis. No control samples were inserted. Sample descriptions and coordinates are included in Appendix C.

Samples were analyzed by the following methods, dependent on the sample type and commodity of interest:

- Fire Assay with an ICP-MS finish for Au
- Ultratrace elements by Aqua Regia Digest followed by ICPMS for Ag, Al, As, Au, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, Hg, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sc, Se, Sr, Te, Th, Ti, Tl, V, W, Zn.
- Fire Assay with an ICP-MS finish for Au, Pt, Pd
- Four Acid "Near Total" Digestion with ICP-OES finish for Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, K, Mg, Li, Mn, Mo, Na, Ni, P, Pb, Sb, S, Sc, Sr, Te, Ti, Tl, U, V, W, Y, Zn, Zr

Assay preparation was completed by crushing samples to a 2mm particle size, mechanically splitting the samples to 250g, and then pulverizing to 95% passing 105µm. Assay certificates are included in Appendix E.



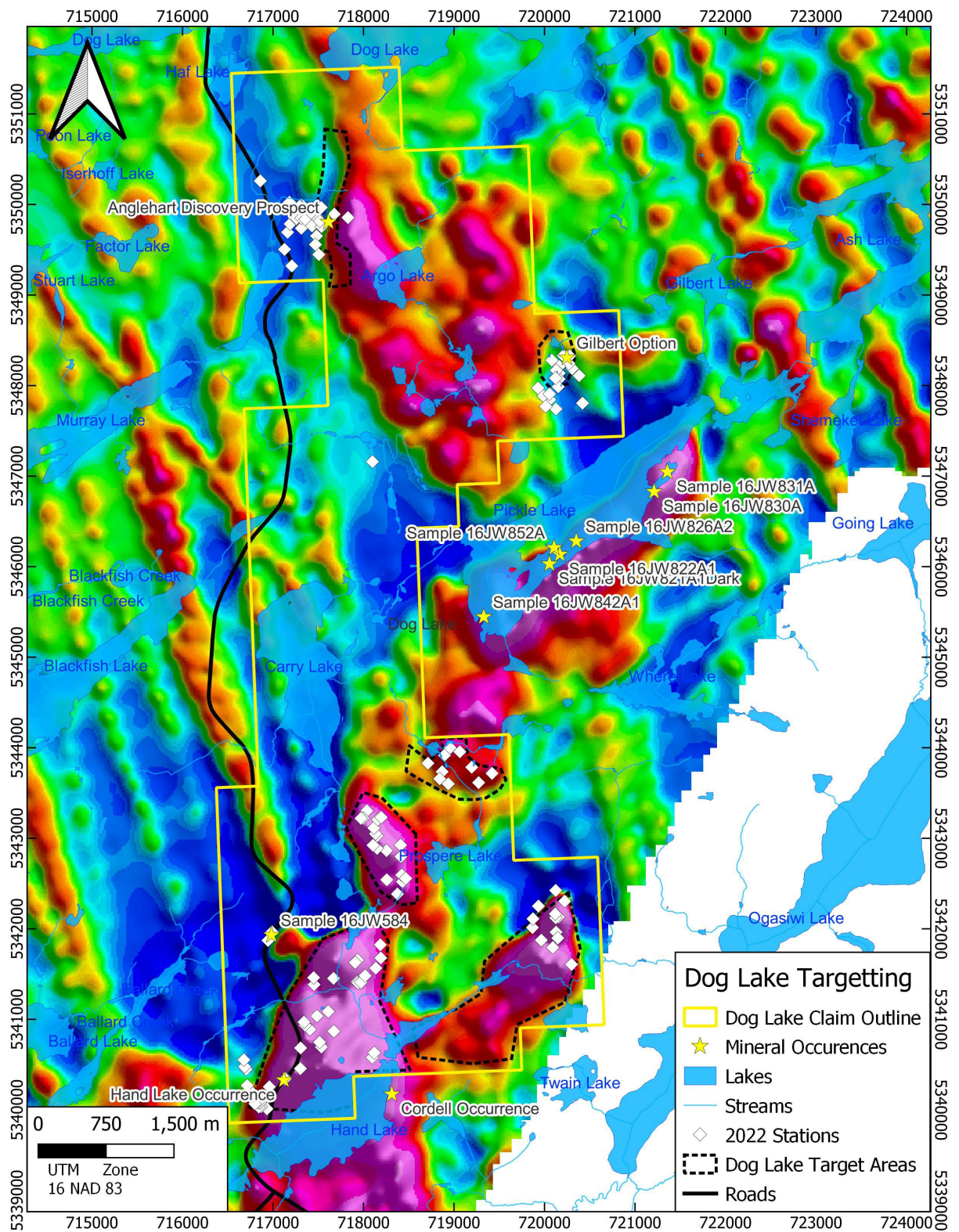


Figure 3: Dog Lake target areas and stations overlain on Total Field Magnetics.





## Results

### Anglehart Showing

The Anglehart Showing is located in the Northern end of the property, approximately 800 metres west of the HWY 651. Historically, the showing was noted as to being an expansive silicified quartz stockwork within mafic metavolcanics. The stockwork was characterized as being roughly 50 feet in width and striking around north.

The 2022 prospecting team explored the showing area and had differing results. At the coordinates for the Mineral Occurrence a large 20 m x 50 m outcrop of gabbro was found standing topographically high to the surrounding area (Figure 5). Most of the outcrop consisted of gabbro with lesser fine-grained mafic volcanics to the north. Several quartz veins, ranging from 1-10 cm in width, were observed intruding the outcrop. It was noted, however, that the amount of veining would not be considered a stockwork.

On the northern end of the outcrop, a 15-30 cm wide, oxidized quartz vein intruding sheared mafic volcanics was observed. The shear zone was around 10 meters wide and striking roughly north. No



*Figure 5: Large outcrop near the location of the Anglehart showing as per the Mineral Deposit Inventory*





*Figure 6: Mineralized quartz vein and sheared mafic volcanics discovered at the location of the Anglehart Showing*

other significant veins were identified within the shear zone. Sulfides ranged from 1-5% and were concentrated along the contact of the vein and mafic volcanics (Figure 6). Samples 1101572 and 1101573 were taken at this point but did not return any significant precious or base metal values. It's possible that the showing was not located during this investigation and further work may be required to uncover it.

### Gilbert Prospect

The Gilbert Prospect is a historic gold prospect located in the northeast of the project location. The prospect can be accessed by taking a railway maintenance road and continuing east for about 2 kilometres till a railway is met. Continue East past the railway for another kilometre along a bush trail. The prospect is located about 600 metres north of this point.

Historic reports claim that the prospect is a gold showing found in a quartz vein within a weakly carbonated shear zone. In 1944, Sylvanite Gold Mines Ltd conducted a blasting and sampling project but was unable to demonstrate appreciable gold values. Later, mapping and prospecting was conducted to the south of the prospect. The work done did not conclude any significant results.

The team spent two days mapping and prospecting the area of the Gilbert Prospect. The first day was spent investigating the exact documented location of the prospect. Sheared, silicified mafic metavolcanics and related quartz veins were observed in the area but there were no appreciable sulfides observed. The second day was spent prospecting the west side of the swamp. This area was composed of mafic volcanics with minor diorite, gabbro and granite. A contact striking 150 between the mafic volcanics and a granitic dike was observed. Mafic fragments were caught up in the felsic intrusive. Samples 1101587-1101589 were taken at this point. 1-5% sulfides, composed of pyrite and chalcopyrite were noted. These samples returned Au values at near detection limits and no appreciable base metals were returned.



*Figure 7: Fractured, silicified mafic volcanic with 2% sulfides. (Sample 1101591)*

### Sample 16JW584 and the Hand Lake Occurrence

The Hand Lake Occurrence and Sample 16JW584 are 2 copper prospects located to the South of the Dog Lake property. Both occurrences are proximal to strong magnetic anomalies believed to be the result of magnetic mafic-ultramafic intrusions.

Sample 16JW584 is historically noted to be collected from a chalcopyrite-bearing veinlet within a granite and returned values of 3,474 ppm copper. However, when the team arrived at the sample location, there was no granite identified. The rock was composed of a strongly magnetic, dark black biotite-pyroxenite (Figure 8). A moderately-sheared section of the unit, located on the east side of the road, was strongly mineralized with upwards of 5% pyrite and 1% chalcopyrite. Samples 1101581, 1101582 and 1101583 were taken from this location. Anomalous Cu was returned from samples 1101582 and 1101583 (302ppm and 120ppm respectively). No significant PGE or Ni mineralization was noted.

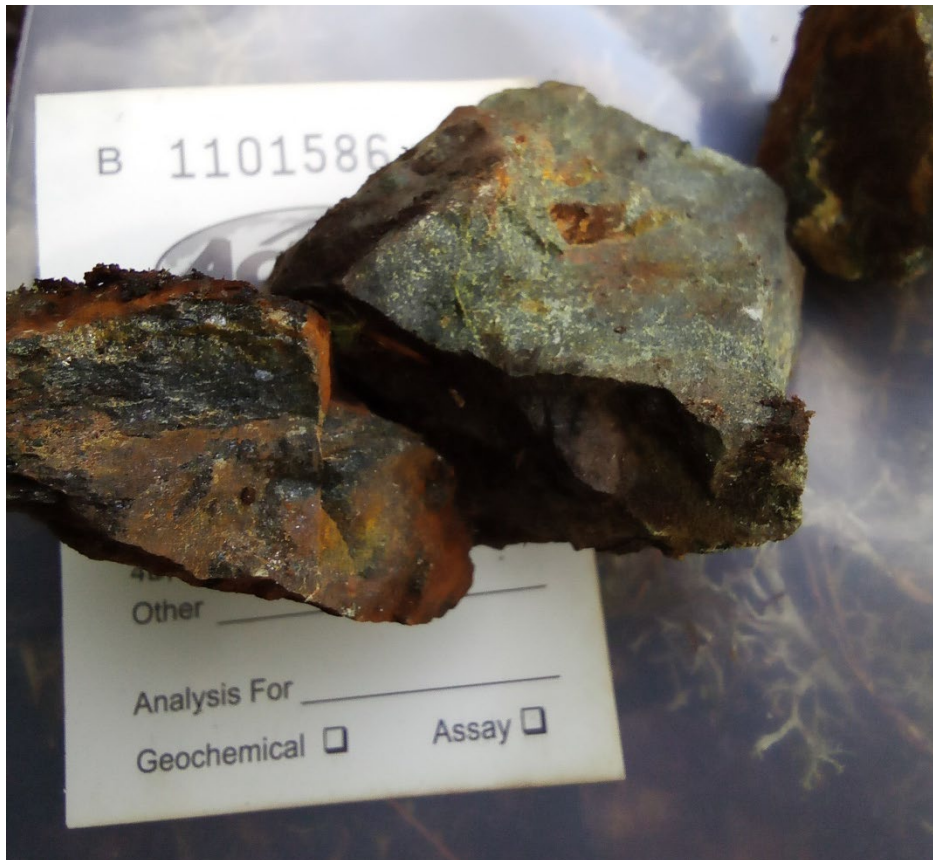
The Hand Lake Occurrence is described as a sample collected from a coarse-grained biotite pyroxenite or lamprophyre. A sample collected by the OGS in 1979 returned values of 0.14% copper and 0.01% nickel. The team returned to the sample location and made observations about the rock. It is



composed of a strongly magnetic, dark black biotite-pyroxenite with trace, disseminated sulfides (Figure 9). Samples 1101578, 1101579 and 1101580 were collected from this location. All three of these samples did not return appreciable values of Ni-Cu-PGE's but Cu enrichment in 1101582 and 1101583 returned 302ppm and 120ppm respectively.



Figure 8: Strongly mineralized biotite-pyroxenite with 2-5% pyrite and chalcopyrite taken from the area of 16JW584 (Samples 1101582 and 1101583)



*Figure 9: Silicified pyroxenite sample taken proximal to felsic dike (Sample 1101586)*

### Investigation of Magnetic Anomalies

The prospects and the surrounding magnetic anomalies were prospected for Ni-Cu PGEs. The focus was to prospect along and across areas of contrasting magnetism to find contacts and to complete extensive sampling of the intrusions to test for contact mineralization or possibly internal PGE enrichment due to reef-type mineralization. The southern property was dominantly composed of mafic metavolcanics with lesser granite, gabbro, hornblendite and pyroxenite intrusions. The centre of the magnetic anomalies were confirmed to be caused by moderately-strongly magnetic gabbro and ultramafic units within supracrustal metavolcanics (Figure 9).

Assay data concluded that PGE are negligible in every sample. Ultramafic lithologies were confirmed by the assay results which returned 4 samples with Cr values ranging from 1500 to 4600 ppm and Ni values ranging from 1300 to 2700ppm. (Samples 1101602 to 1101605, Figure 10). These samples are described as fine grained pyroxenites and hornblendites with no significant sulfide mineralization. Ni enrichment is concluded to be due to the result of the presence of olivine. Cu enrichment (100 - 300 ppm) is noted in 8 samples. These samples are described as containing low percentages of sulphides so that is the likely association. These Cu values occur atop most of the magnetic anomalies that were explored.

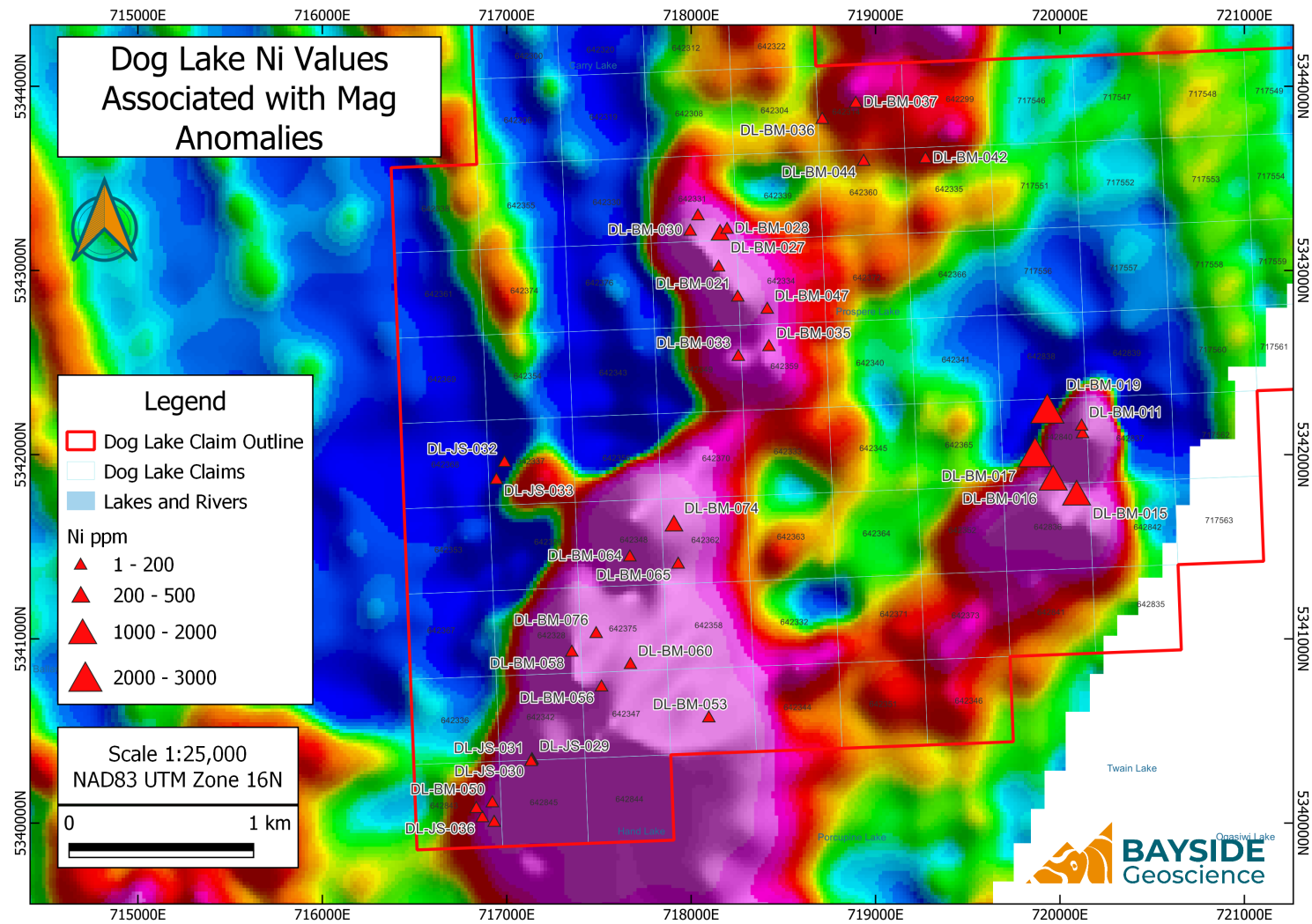


Figure 10: Magnetic anomalies and sampling in the south portion of the Dog Lake property. Ni Results shown.

## Conclusions and Recommendations

The 2022 Dog Lake exploration program was a successful first pass phase of exploration that resulted in the following conclusions:

- The Anglehart and Gilbert showings are mislocated compared to coordinates on the Mineral Deposit Inventory. The Gilbert showing was located 500m south of the documented location while the Anglehart showing was not located in this campaign.
- The locations of the Hand Lake showing and Sample 16JW584 were located and sampled, returning anomalous Cu mineralization but no PGE enrichment.
- Magnetic anomalies in the south of the property are related to mafic-ultramafic intrusions comprised of gabbro, hornblende gabbro, hornblendite and pyroxenite.
- Ultramafic intrusives are confirmed by the presence of high Ni, Mg and Cr.
- No significant sulfide or Ni-Cu-PGE mineralization was returned from the sampling

In light of these observations the following follow up work is recommended:

- Additional prospecting focussed on locating the Anglehart showing is warranted based on the historical documentation of sampling in the area.
- An airborne EM survey is warranted on the property to assess the mafic-ultramafic intrusions across the property for accumulations of Ni-Cu-PGE mineralization. Nearby mineral occurrences on the south side of Pickle Lake, less than 1km east of the property, report hand samples with up to 0.44% Ni from serpentized ultramafic intrusions. This work would be followed by ground truthing of any EM anomalies



## Expenditures

Expenditure Type	Cost/Unit	Units	Total	Double Prospecting Credits
Senior Project Geologist	\$1,000.00	2	\$2,000.00	\$2,000.00
Geologist in Training	\$750.00	16	\$12,000.00	\$24,000.00
Field Assistant	\$525.00	13	\$6,825.00	\$13,650.00
Management Fee	\$2,000.00	1	\$2,000.00	\$2,000.00
Truck Rental	\$100.00	20	\$2,000.00	\$2,000.00
Lodging	\$1,700.00	1	\$1,700.00	\$1,700.00
Meals	\$40.00	31	\$1,240.00	\$1,240.00
Assays	\$53.89	59	\$3,179.51	\$3,179.51
Report Writing	\$4,000.00	1	\$4,000.00	\$4,000.00
Field Supplies	\$94.00	1	\$94.00	\$94.00
Fuel	\$869.28	1	\$869.28	\$869.28
<b>Total</b>			<b>\$35,907.79</b>	<b>\$54,732.79</b>

Cell ID	Grab Sample Count	Sample Analysis Costs	Mapping Station Count	Proportion of Stations/Cell	Labour/Fixed Costs	Total Cost/Cell
639639	3	\$161.67	5	3.62%	\$1,867.87	\$2,029.54
639640	0	\$0.00	1	0.72%	\$373.57	\$373.57
639643	0	\$0.00	1	0.72%	\$373.57	\$373.57
639647	5	\$269.45	15	10.87%	\$5,603.62	\$5,873.07
639659	1	\$53.89	1	0.72%	\$373.57	\$427.46
639667	1	\$53.89	4	2.90%	\$1,494.30	\$1,548.19
639668	11	\$592.79	21	15.22%	\$7,845.06	\$8,437.85
639676	0	\$0.00	4	2.90%	\$1,494.30	\$1,494.30
642298	0	\$0.00	1	0.72%	\$373.57	\$373.57
642299	0	\$0.00	2	1.45%	\$747.15	\$747.15
642314	2	\$107.78	6	4.35%	\$2,241.45	\$2,349.23
642328	1	\$53.89	2	1.45%	\$747.15	\$801.04
642331	4	\$215.56	5	3.62%	\$1,867.87	\$2,083.43
642334	1	\$53.89	2	1.45%	\$747.15	\$801.04
642335	1	\$53.89	1	0.72%	\$373.57	\$427.46
642336	0	\$0.00	3	2.17%	\$1,120.72	\$1,120.72
642337	3	\$161.67	3	2.17%	\$1,120.72	\$1,282.39
642342	3	\$161.67	5	3.62%	\$1,867.87	\$2,029.54
642347	1	\$53.89	2	1.45%	\$747.15	\$801.04
642348	1	\$53.89	3	2.17%	\$1,120.72	\$1,174.61
642349	1	\$53.89	1	0.72%	\$373.57	\$427.46
642350	2	\$107.78	6	4.35%	\$2,241.45	\$2,349.23
642357	1	\$53.89	2	1.45%	\$747.15	\$801.04
642359	2	\$107.78	4	2.90%	\$1,494.30	\$1,602.08
642360	1	\$53.89	1	0.72%	\$373.57	\$427.46
642362	2	\$107.78	8	5.80%	\$2,988.60	\$3,096.38
642370	0	\$0.00	1	0.72%	\$373.57	\$373.57
642375	2	\$107.78	4	2.90%	\$1,494.30	\$1,602.08
642836	1	\$53.89	1	0.72%	\$373.57	\$427.46
642837	0	\$0.00	2	1.45%	\$747.15	\$747.15
642838	0	\$0.00	1	0.72%	\$373.57	\$373.57
642840	5	\$269.45	8	5.80%	\$2,988.60	\$3,258.05
642842	0	\$0.00	1	0.72%	\$373.57	\$373.57
642843	4	\$215.56	11	7.97%	\$4,109.32	\$4,324.88
<b>Total</b>	<b>59</b>	<b>\$3,179.51</b>	<b>138</b>	<b>100.00%</b>	<b>\$51,553.28</b>	<b>\$54,732.79</b>

## References

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## Statement of Qualifications

I, Steven D. Flank, of the City of Thunder Bay, in the Province of Ontario, do hereby certify that:

1. I am the President and Principal Geoscientist of Bayside Geoscience Inc., a geological consulting company based in Thunder Bay, Ontario.
2. I am a member in good standing with the Association of Professional Geoscientists of Ontario (#2695), residing at 124 Sherwood Drive, Thunder Bay, Ontario, P7B 6L1.
3. I attained an H.BSc. in Geology from Lakehead University in Thunder Bay, Ontario (2011) and an M.Sc. in Mineral Exploration from Laurentian University in Sudbury, Ontario (2017).
4. I have worked as an exploration geologist for over 10 years focusing on project generation and early-stage gold projects including shear zone hosted lode gold and intrusion related disseminated gold deposits and intrusion related Ni-Cu-PGE deposits.
5. I personally conducted and supervised work at the 2022 Prospecting Program at the Dog Lake Property as described in this report.

Dated

February 23, 2023

Thunder Bay, Ontario, Canada



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Steven D. Flank, M.Sc., P.Geo.



Appendix A: Dog Lake Property Claims

Tenure Number	Claim Type	Township	Anniversary Date	Percent Option	Work Required	Work Applied	Total Reserve	Conversion Bank Credit
639635	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639636	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639637	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639638	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639639	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639640	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639641	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639642	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639643	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639644	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639645	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639646	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639647	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639648	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639649	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639650	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639651	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639652	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639653	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639654	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639655	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639656	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639657	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639658	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639659	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639660	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639661	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639662	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639663	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639664	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639665	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639666	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639667	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639668	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639669	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639670	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639671	SCMC	Copenace	2023-02-25	100%	400	0	0	0

Tenure Number	Claim Type	Township	Anniversary Date	Percent Option	Work Required	Work Applied	Total Reserve	Conversion Bank Credit
639672	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639673	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639674	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639675	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639676	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639677	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639678	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639679	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639680	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639681	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639682	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639683	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639684	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639685	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639686	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639687	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639688	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639689	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639690	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639691	SCMC	Copenace	2023-02-25	100%	400	0	0	0
639692	SCMC	Copenace	2023-02-25	100%	400	0	0	0
642292	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642293	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642294	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642295	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642296	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642297	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642298	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642299	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642300	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642301	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642302	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642303	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642304	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642305	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642306	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642307	SCMC	Copenace	2023-03-10	100%	400	0	0	0

Tenure Number	Claim Type	Township	Anniversary Date	Percent Option	Work Required	Work Applied	Total Reserve	Conversion Bank Credit
642308	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642309	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642310	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642311	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642312	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642313	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642314	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642315	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642316	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642317	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642318	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642319	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642320	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642321	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642322	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642323	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642324	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642325	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642326	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642327	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642328	SCMC	Echum	2023-03-10	100%	400	0	0	0
642329	SCMC	Echum	2023-03-10	100%	400	0	0	0
642330	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642331	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642332	SCMC	Echum	2023-03-10	100%	400	0	0	0
642333	SCMC	Copenace, Echum	2023-03-10	100%	400	0	0	0
642334	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642335	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642336	SCMC	Echum	2023-03-10	100%	400	0	0	0
642337	SCMC	Copenace, Echum	2023-03-10	100%	400	0	0	0
642338	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642339	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642340	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642341	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642342	SCMC	Echum	2023-03-10	100%	400	0	0	0
642343	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642344	SCMC	Echum	2023-03-10	100%	400	0	0	0



Tenure Number	Claim Type	Township	Anniversary Date	Percent Option	Work Required	Work Applied	Total Reserve	Conversion Bank Credit
642345	SCMC	Copenace, Echum	2023-03-10	100%	400	0	0	0
642346	SCMC	Echum	2023-03-10	100%	400	0	0	0
642347	SCMC	Echum	2023-03-10	100%	400	0	0	0
642348	SCMC	Echum	2023-03-10	100%	400	0	0	0
642349	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642350	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642351	SCMC	Echum	2023-03-10	100%	400	0	0	0
642352	SCMC	Echum	2023-03-10	100%	400	0	0	0
642353	SCMC	Echum	2023-03-10	100%	400	0	0	0
642354	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642355	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642356	SCMC	Copenace, Echum	2023-03-10	100%	400	0	0	0
642357	SCMC	Echum	2023-03-10	100%	400	0	0	0
642358	SCMC	Echum	2023-03-10	100%	400	0	0	0
642359	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642360	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642361	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642362	SCMC	Echum	2023-03-10	100%	400	0	0	0
642363	SCMC	Echum	2023-03-10	100%	400	0	0	0
642364	SCMC	Echum	2023-03-10	100%	400	0	0	0
642365	SCMC	Copenace, Echum	2023-03-10	100%	400	0	0	0
642366	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642367	SCMC	Echum	2023-03-10	100%	400	0	0	0
642368	SCMC	Copenace, Echum	2023-03-10	100%	400	0	0	0
642369	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642370	SCMC	Copenace, Echum	2023-03-10	100%	400	0	0	0
642371	SCMC	Echum	2023-03-10	100%	400	0	0	0
642372	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642373	SCMC	Echum	2023-03-10	100%	400	0	0	0
642374	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642375	SCMC	Echum	2023-03-10	100%	400	0	0	0
642376	SCMC	Copenace	2023-03-10	100%	400	0	0	0
642835	SCMC	Echum	2023-03-11	100%	400	0	0	0
642836	SCMC	Echum	2023-03-11	100%	400	0	0	0
642837	SCMC	Copenace, Echum	2023-03-11	100%	400	0	0	0
642838	SCMC	Copenace	2023-03-11	100%	400	0	0	0
642839	SCMC	Copenace	2023-03-11	100%	400	0	0	0

Tenure Number	Claim Type	Township	Anniversary Date	Percent Option	Work Required	Work Applied	Total Reserve	Conversion Bank Credit
642840	SCMC	Copenace, Echum	2023-03-11	100%	400	0	0	0
642841	SCMC	Echum	2023-03-11	100%	400	0	0	0
642842	SCMC	Echum	2023-03-11	100%	400	0	0	0
642843	SCMC	Echum	2023-03-11	100%	400	0	0	0
642844	SCMC	Echum	2023-03-11	100%	400	0	0	0
642845	SCMC	Echum	2023-03-11	100%	400	0	0	0
717546	SCMC	Copenace	2024-04-07	100%	400	0	0	0
717547	SCMC	Copenace	2024-04-07	100%	400	0	0	0
717548	SCMC	Copenace	2024-04-07	100%	400	0	0	0
717549	SCMC	Copenace	2024-04-07	100%	400	0	0	0
717550	SCMC	Copenace, Marsh	2024-04-07	100%	400	0	0	0
717551	SCMC	Copenace	2024-04-07	100%	400	0	0	0
717552	SCMC	Copenace	2024-04-07	100%	400	0	0	0
717553	SCMC	Copenace	2024-04-07	100%	400	0	0	0
717554	SCMC	Copenace	2024-04-07	100%	400	0	0	0
717555	SCMC	Copenace, Marsh	2024-04-07	100%	400	0	0	0
717556	SCMC	Copenace	2024-04-07	100%	400	0	0	0
717557	SCMC	Copenace	2024-04-07	100%	400	0	0	0
717558	SCMC	Copenace	2024-04-07	100%	400	0	0	0
717559	SCMC	Copenace	2024-04-07	100%	400	0	0	0
717560	SCMC	Copenace	2024-04-07	100%	400	0	0	0
717561	SCMC	Copenace	2024-04-07	100%	400	0	0	0
717562	SCMC	Copenace, Echum	2024-04-07	100%	400	0	0	0
717563	SCMC	Echum	2024-04-07	100%	400	0	0	0

Appendix B: Daily Logs

Date	Main Objective	Staff	Log
23-Jul-22	Mobilize to Site	Joe Suk, Sam Gbantous	
24-Jul-22	Initial Recon	Joe Suk, Sam Gbantous	Recon work and checking out the Anglehart showing. 2 stations. No samples.
25-Jul-22	Mapping and Prospecting	Joe Suk, Sam Gbantous	Prospecting at Angleheart Showing. 15 stations. Collected 6 samples (1101569 to 1101574).
26-Jul-22	Mapping and Prospecting	Joe Suk, Sam Gbantous	Prospecting at Gilbert Prospect. 10 stations. Collected 3 samples (1101575 to 1101577).
27-Jul-22	Soil Recon	Joe Suk, Sam Gbantous	Collected soil observations along the length of the property to assess feasibility of soil sampling project. Prospected when opportunistic. 4 stations. Collected 4 samples (1101578 to 1101581).
28-Jul-22	Mapping and Prospecting	Joe Suk, Sam Gbantous	Prospecting at Southwestern magnetic anomaly target. 13 stations. Collected 5 samples (1101582 to 1101586).
29-Jul-22	Mapping and Prospecting	Joe Suk, Sam Gbantous	Prospecting at Gilbert Prospect. 9 stations. Collected 5 samples (1101587 to 1101591).
30-Jul-22	Mapping and Prospecting	Joe Suk, Sam Gbantous, Steve Flank, Ben McSheffrey	Prospecting at Angleheart Showing. 7 stations. Collected 8 samples (1101592 to 1101599).
31-Jul-22	Mapping and Prospecting	Sam Gbantous, Steve Flank, Ben McSheffrey	Prospecting at Eastern magnetic anomaly target. 11 stations. Collected 6 samples (1101600 to 1101605).
01-Aug-22	Mapping and Prospecting	Sam Gbantous, Ben McSheffrey	Prospecting at Northwest magnetic anomaly target. 14 stations. Collected 8 samples (1101606 to 1101613).
02-Aug-22	Mapping and Prospecting	Sam Gbantous, Ben McSheffrey	Prospecting at Northeastern magnetic anomaly target. 14 stations. Collected 5 samples (1101614 to 1101618)
03-Aug-22	Mapping and Prospecting	Sam Gbantous, Ben McSheffrey	Prospecting at Southwestern magnetic anomaly target. 11 stations. Collected 5 samples (1101619 to 1101623)
04-Aug-22	Mapping and Prospecting	Sam Gbantous, Ben McSheffrey	Continued prospecting at Southwestern magnetic anomaly target. 14 stations. Collected 4 samples (1101624 to 1101627).
05-Aug-22	Demobilize	Sam Gbantous, Ben McSheffrey	



Appendix C: Station Data

Station ID	Sample ID	Easting	Northing	Elevation	Sample r	Date	Sample Med	Lithology	Notes
DL-BM-001	1101593	717488	5349861	392	BM	2022-07-30	Outcrop	Mafic Volcanic	Fine grained, medium grey/green moderately massive mafic volcanic. Shear zone fabric present. QV milky white unmineralized, 5cm in width. 50m North of previous unit. Pyrite stringers in MV.
DL-BM-002	1101594	717488	5349861	392	BM	2022-07-30	Outcrop	Quartz Vein	Creamy grey/white barren smokey QV approx 20cm wide. 2m east from previous vein.
DL-BM-003	1101595	717497	5349791	398	BM	2022-07-30	Outcrop	Mafic Volcanic	Continuation of past shear zone to the south. Cm scale qv crosscutting shear. Unit looks silicified mafic volcanic unit with carb infill. Potentially sheared gabbro. Trace pyrite proximal to calc veins.
DL-BM-004		717480	5349652	393	BM	2022-07-30	Outcrop	Gabbro	1 by 1m exposed gabbro with mod ox staining. Less sheared than rocks to the north. Medium grained siliceous gabbro. Fine grained disseminated sulphides. Low exposure area. Difficult to collect sample.
DL-BM-005		717468	5349557	385	JS	2022-07-30	Outcrop	Intermediate Volcanic	Weak-mod sheared int vol, or sili mv. No sulfides. Low exposure. 1x1m oc.
DL-BM-006	1101596	717505	5349446	385	JS	2022-07-30	Outcrop	Diorite	Mixed unit composed of diorite to the sw and more felsics to ne. Diorite has pieces of mafic material within. Sample taken on margin of mafics and felsics. Felsics are pink-white with fg mica, aplite?
DL-BM-007		717126	5349504	345	BM	2022-07-30	Outcrop	Felsic Volcanic	Outcrop on side of road 20m long. Fine grained to aphanitic groundmass with tuffaceous silica. Medium grained kspar quartz and chlorite porphyrys. Not mineralized. Massive.
DL-BM-008		720222	5342304	417	BM	2022-07-31	Outcrop	Granite	Pink/ white mg granite with no mineralization.
DL-BM-009		720153	5342129	428	BM	2022-07-31	Outcrop	Gabbro	Medium grey, fg-mg gabbro, 50% plag, 50% pyroxene. Weakly altered chlorite. Strongly magnetic.
DL-BM-010	1101600	720123	5342121	431	BM	2022-07-31	Outcrop	Intermediate Volcanic	Light green, fg, intermediate volcanics. Moderately silicified, moderate qtz veining (on cm scale). Weakly oxidized. No mineralization.
DL-BM-011	1101601	720118	5342163	439	SG	2022-07-31	Outcrop	Mafic Volcanic	Medium grey/green medium grained mafic volcanic. Less than 1 percent sulfides withim small quartz vein in sample. Not magnetic.
DL-BM-012		720127	5341962	425	SG	2022-07-31	Outcrop	Mafic Volcanic	Dark grey f-mg well foliated micaceous mafic intrusive. No mineralization.
DL-BM-013		720146	5341897	420	SG	2022-07-31	Outcrop	Mafic Volcanic	Medium grey f-mg micaceous and well foliated mafic intrusive. Trace pyrite. Minir felsic veins xcutting foliation.
DL-BM-014		720298	5341606	395	SG	2022-07-31	Outcrop	Granite	Creamy white/pink medium grained granite with moderate quartz grains.
DL-BM-015	1101602	720091	5341793	402	SG	2022-07-31	Outcrop	Pyroxenite	Dark grey / black fine grained pyroxenite. No mineralization. Moderately magnetic. Outcrop trending NS

Station ID	Sample ID	Easting	Northing	Elevation	Sample r	Date	Sample Med	Lithology	Notes
DL-BM-016	1101603	719964	5341874	410	SG	2022-07-31	Outcrop	Hornblendite	Black fg moderately magnetic hornblendite with oikocrytic texture that are 1.5cm.
DL-BM-017	1101604	719866	5342013	408	SG	2022-07-31	Outcrop	Hornblendite	Black fine grained hornblendite with weaker oikocrytic texture. Moderate magnetism. No mineralization
DL-BM-018		719872	5342110	410	SG	2022-07-31	Outcrop	Pyroxenite	Fine grained black equigranular pyroxenite. No mineralization.
DL-BM-019	1101605	719932	5342250	420	SG	2022-07-31	Outcrop	Hornblendite	Black fine grained hornblendite with moderate oikocrytic texture. Moderate magnetism. No min.
DL-BM-020		720123	5342423	457	SG	2022-07-31	Outcrop	Gabbro	Fine grained medium grey weakly magnetic gabbro with weak epidote alteration
DL-BM-021	1101606	718253	5342863	397	SF	2022-08-01	Subcrop	Mafic Volcanic	Black fine grained ultramafic volcanic with 2-3% blebby pyrite and trace chalco. Weakly magnetic. Large boulder NW of road.
DL-BM-022		718149	5342888	416	SF	2022-08-01	Float	Gabbro	Dark grey, fg, gabbro. Bit of plag. Trace pyrite specks. Mix of plag and pyroxene. A few boulders.
DL-BM-023		718104	5342922	412	SF	2022-08-01	Float	Melagabbro	Light to medium grey, fine to medium grained equigranular melagabbro.? 20 plag 80 pyrox. Very weakly magnetic
DL-BM-024	1101607	718149	5343026	428	SF	2022-08-01	Outcrop	Mafic Volcanic	Dark grey/black, fg mafic volcanic. Visible pyroxene crystals. Approx 5% plag. 1% pyrite, blebby. Weakly magnetic. Sample taken.
DL-BM-025		718132	5343049	419	SF	2022-08-01	Outcrop	Mafic Volcanic	Same litho as previous station. Only diff is silica alt.
DL-BM-026		718113	5343113	412	SF	2022-08-01	Outcrop	Melagabbro	Granular, dark grey, melanogabbro. Fg. Trace pyrite. Weak Si alt. Much larger and more exposed outcrop with same to similar lithology 40m NE. Gradational change in grain size and gets finer grained N.
DL-BM-027	1101608	718157	5343207	405	SF	2022-08-01	Outcrop	Hornblendite	Hornblendite with fine oikocrysts. Strongly magnetic. K- alt present. Trace pyrite observed.
DL-BM-028	1101609	718195	5343231	405	SF	2022-08-01	Subcrop	Mafic Volcanic	Grey-green mafic. Trace pyrite. Weak magnetic. Sampled.
DL-BM-029	1101610	718037	5343304	405	BM	2022-08-01	Outcrop	Mafic Volcanic	
DL-BM-030	1101611	717995	5343221	401	BM	2022-08-01	Outcrop	Mafic Volcanic	
DL-BM-031		717971	5343219	400	BM	2022-08-01	Outcrop	Mafic Volcanic	
DL-BM-033	1101612	718256	5342541	400	SF	2022-08-01	Subcrop	Mafic Volcanic	Fg, well foliated mafic volcanics. Moderate ductile deformation. Present felsic intrusions. Trace pyrite. Chlor alt in veins. Almost appears banded with felsic unit

Station ID	Sample ID	Easting	Northing	Elevation	Sample r	Date	Sample Med	Lithology	Notes
DL-BM-034		718430	5342519	399	SF	2022-08-01	Outcrop	Granite	White pink and grey medium to coarse grained granite. Mix between a granite and a gneiss.
DL-BM-035	1101613	718422	5342594	397	SF	2022-08-01	Outcrop	Gabbro	Fg gabbro, equigranular. Distinct pyroxene crystal faces. 0.5% pyrite. Moderately magnetic.
DL-BM-036	1101614	718711	5343828	413	SF	2022-08-02	Outcrop	Hornblendite	Black fg hornblendite with weak oikocrytic texture. 1% disseminated pyrite.
DL-BM-037	1101615	718893	5343916	389	SF	2022-08-02	Outcrop	Mafic Volcanic	Fg mafic volcanic, ~5-10% plag. Minor chlorite veining. Non-magnetic. Felsic intrusions throughout outcrop, no more than 1x1m in size each.
DL-BM-038		718956	5343999	391	SF	2022-08-02	Outcrop	Gabbro	Medium grey, medium grained gabbro with fine grained olivine crystals. 40 plag to 60 pyrox. No min.
DL-BM-039		719064	5343955	392	SF	2022-08-02	Outcrop	Mafic Volcanic	Fine grained mafic volcanic with trace pyrite. Non magnetic. Change in comp from intermediate to mafic from NW-SE
DL-BM-040		719195	5343784	390	SF	2022-08-02	Outcrop	Gabbro	Equigranular mg gabbro. Consists of plag and pyx. No sulphides or alteration. Small felsic dyklets are present, randomly oriented.
DL-BM-041		719419	5343716	402	SF	2022-08-02	Float	Mafic Volcanic	Grey/green mafic volcanic with mod patchy chlorite alteration. No mineralization and non magnetic.
DL-BM-042	1101616	719271	5343614	404	SF	2022-08-02	Outcrop	Pyroxenite	Fg pyroxenite, with 1.5% dissem pyrite. Non-magnetic. Crystal faces observable. Sample taken.
DL-BM-043		718868	5343734	400	SF	2022-08-02	Outcrop	Diorite	Coarse grained, black and white diorite, weakly silicified. No min. Non magnetic
DL-BM-044	1101617	718936	5343600	407	SF	2022-08-02	Outcrop	Gabbro	Equigranular gabbro 40 Plag 60pyrox. 1 percent blebby pyrite. Non magnetic. Barren oxidized QV 10- 50cm in width intersecting gabbro unit.
DL-BM-045		718841	5343656	429	SF	2022-08-02	Outcrop	Mafic Volcanic	Dark grey fg mafic volcanic with weak chloritization and trace disseminated pyrite. Non magnetic.
DL-BM-046		718409	5342924	400	SF	2022-08-02	Float	Gabbro	Equigranular gabbro. 20% plag, 80% pyroxene. 0.5% dissem sulphides. Non magnetic, 4x4m boulder.
DL-BM-047	1101618	718413	5342797	401	SF	2022-08-02	Outcrop	Gabbro	Medium grained, equigranular gabbro - 40 plag 60 pyrox. Weakly magnetic and 1.5 percent disseminated sulfides.
DL-BM-048		718466	5342556	404	SF	2022-08-02	Outcrop	Mafic Volcanic	Fg mafic volcanics. Large rounded outcrop. Slight chlorite veining. No mineralization.
DL-BM-049		718374	5342384	398	SF	2022-08-02	Outcrop	Mafic Volcanic	Similar mafic volcanic to previous unit. Fine grained with weak chlorite veining and trace blebby sulfide. Non magnetic.
DL-BM-050	1101619	716922	5340117	416	SF	2022-08-03	Outcrop	Pyroxenite	Fg pyroxenite, weakly magnetic, 1% sulphides. Minor felsic intrusions cm scale, random orientation.
DL-BM-051		716958	5340254	416	SF	2022-08-03	Outcrop	Pyroxenite	Black, F-mg pyrox with trace sulfides and weak magnetism. Minor patches of felsic intrusions and minor quartz veining. No clear consistent orientation.



Station ID	Sample ID	Easting	Northing	Elevation	Sample r	Date	Sample Med	Lithology	Notes
DL-BM-052		717302	5340455	385	SF	2022-08-03	Outcrop	Hornblendite	Mg hornblendite with oikocryptic texture, no sulfides and nonmagnetic.
DL-BM-053	1101620	718096	5340578	389	SF	2022-08-03	Outcrop	Pyroxenite	F-mg pyrox with weak chlorite veining, trace sulfide and mod to strong magnetism. 1m long by 10cm wide epidote vein striking at 265.
DL-BM-054		718118	5340630	385	SF	2022-08-03	Outcrop	Mafic Volcanic	Fine grained mafic volcanic. 3% Olivine observed. Abundant hornblende. Strongly magnetic. No visible sulphides.
DL-BM-055		717534	5340694	398	SF	2022-08-03	Outcrop	Gabbro	Weakly oxidized medium equigranular gabbro. Moderately magnetic. No mineralization
DL-BM-056	1101621	717514	5340746	403	SF	2022-08-03	Outcrop	Gabbro	Mg, equigranular gabbro. Weak, patchy K alt. 1% blebby sulphs. Moderately magnetic.
DL-BM-057		717408	5340887	408	SF	2022-08-03	Float	Pyroxenite	Mg unaltered pyroxenite with no mineralization or magnetism.
DL-BM-058	1101622	717353	5340935	401	SF	2022-08-03	Outcrop	Hornblendite	F-mg hornblendite with oikocryptic texture, trace sulfides and strongly magnetic. Minor felsic intrusions throughout outcrop
DL-BM-059		717341	5340969	402	SF	2022-08-03	Outcrop	Mafic Volcanic	Fg mafic volcanics. Weak patchy chlorite alt. Trace sulphides. Weak earthy hematite alteration. Non magnetic.
DL-BM-060	1101623	717671	5340868	394	SF	2022-08-03	Outcrop	Intermediate Volcanic	Fine grained intermediate volcanic with weak patchy sil alt. Moderately magnetic and trace sulfides. Outcrop becomes more mafic as you travel SW where pyrox is present but no mag or min.
DL-BM-061		717304	5340683	397	SF	2022-08-03	Outcrop	Intermediate Volcanic	F-mg groundmass. Strongly micaceous, large biotite and phlogopite flakes, strongly chloritized. No foliation or schistose texture. Unsure of litho.
DL-BM-062		717453	5341383	377	SF	2022-08-04	Outcrop	Gabbro	F-mg gabbro with weak patchy potassic alteration. Moderately magnetic. No mineralization.
DL-BM-063		717448	5341460	392	SF	2022-08-04	Outcrop	Gabbro	Same gabbro as previous outcrop but slightly finer grained. Roughly 20x20m in size
DL-BM-064	1101624	717668	5341452	380	SF	2022-08-04	Outcrop	Mafic Volcanic	Fg mafic volcanics with visible olivine crystals, weak patchy silicification and strong magnetism. 2% blebby pyrite and 1% blebby chalcopyrite. Silicification increases southwards down the outcrop.
DL-BM-065	1101625	717930	5341413	389	SF	2022-08-04	Outcrop	Intermediate Volcanic	Fg intermediate volcanic with weak patchy silica alteration. Nonmagnetic and trace sulfides. Part of large series of intermediate outcrops.
DL-BM-066		717940	5341401	393	SF	2022-08-04	Outcrop	Gabbro	Fg-mg gabbro, weakly magnetic. No mineralization. Trace sulphides. Extension of previous station's outcrop with int.volcanics. weak k-alt
DL-BM-067		717971	5341408	397	SF	2022-08-04	Outcrop	Mafic Volcanic	Fg- weakly foliated mafic volcanic with weak chlorite veining, wispy quartz veins. Non magnetic and no mineralization.
DL-BM-068		718017	5341481	395	SF	2022-08-04	Outcrop	Pyroxenite	Fg unaltered pyroxenite, no mineralization and nonmagnetic.

Station ID	Sample ID	Easting	Northing	Elevation	Sample r	Date	Sample Med	Lithology	Notes
DL-BM-069		718135	5341565	407	SF	2022-08-04	Outcrop	Mafic Volcanic	Fg mafic volcanics, moderately foliated, weak chlorite veining and minor felsic intrusions. Nonmagnetic and no min.
DL-BM-070		718190	5341677	422	SF	2022-08-04	Outcrop	Mafic Volcanic	F-mg mafic volcanic with trace chlorite alteration, wispy quartz veining. Nonmagnetic and no mineralization. Part of large 50x50m outcrop. Medium grained hornblende crystals visible.
DL-BM-071		718185	5341823	441	SF	2022-08-04	Outcrop	Mafic Volcanic	Similar fg mafic volcanic to station 070. Whole topographic high since 070 is same litho, well exposed. Patches of slight silica alt. Decreasing granularity and more mafic % with increasing elevation
DL-BM-072		718098	5347159	431	SF	2022-08-04	Outcrop	Mafic Volcanic	Continued fg mafic volcanic with sstrong pervasive chlorite alteration. Nonmagnetic and no min. Well foliated.
DL-BM-073		717933	5341655	406	SF	2022-08-04	Outcrop	Gabbro	Equigranular gabbro. Dominantly pyroxene. Trace sulphides. Quartz veinlets also observed.
DL-BM-074	1101626	717907	5341627	400	SF	2022-08-04	Outcrop	Hornblendite	F-mg hornblendite with strong magnetism, weak chlorite alteration and trace sulfides. Weak oikocryptic texture.
DL-BM-075		717610	5341086	392	SF	2022-08-04	Outcrop	Mafic Volcanic	Fg mafic volcanics with olivine crystals up to 1 percent. Weakly magnetic and trace sulfides.
DL-BM-076	1101627	717485	5341036	398	SF	2022-08-04	Outcrop	Gabbro	Equigranular, mg gabbro. 10x10m outcrop. Moderately magnetic. 0.5-1% sulphs. 5-8% plag.
DL-JS-001		717160	5349693	365	JS	2022-07-24	Subcrop	Gabbro	Subcrop along hill composed of broken rock. Bluish mg gabbro with 1% sulfides.
DL-JS-002		717312	5349737	380	JS	2022-07-24	Outcrop	Mafic Volcanic	Ridge striking 020. Composed of mix of felsics and mafics. Mg gabbro to W, fg, mafic volcanic to E. Variable silica in each. No sulphides.
DL-JS-003		717189	5349785	360	JS	2022-07-25	Subcrop	Mafic Volcanic	Fg bluish mv with minor silica alteration. Well defined fol, mod strain.
DL-JS-004	1101569	717258	5349839	365	JS	2022-07-25	Outcrop	Quartz Vein	Sheared qtz veins running parallel to sz. White with minor chl fracture fill. 4 veins 1-3cm wide. Intruding mafic volcanic.
DL-JS-005	1101570	717259	5349848	368	JS	2022-07-25	Outcrop	Mafic Volcanic	Next to sample 069. Fg mafic vol. Strongly sheared. Green in colour.
DL-JS-006	1101571	717312	5349850	365	JS	2022-07-25	Outcrop	Gabbro	Mg silicious gabbro with qtz veins within. Min related to quartz veins. Found along a 20m long ridge with 5m height. Surface of rock coated white.
DL-JS-007		717357	5349836	384	JS	2022-07-25	Outcrop	Gabbro	Mg gabbro, moderate siliceous alteration. Occasional pockets of strongly oxidized, related to intersection of veins and dykes. N-S trending stockwork veining present. Rock is sheared. 20x20m outcrop.
DL-JS-008		717430	5349763	390	JS	2022-07-25	Outcrop	Gabbro	Similar to 007 but less silica. Strike taken off small felsic dikelet.
DL-JS-009		717536	5349756	396	JS	2022-07-25	Outcrop	Gabbro	Fg-mg gabbro oc 20x20m. Weak strain with fol going 340. 1 felsic dike found going 340. One greenish dike striking 240

Station ID	Sample ID	Easting	Northing	Elevation	Sample r	Date	Sample Med	Lithology	Notes
DL-JS-010	1101572	717501	5349836	396	JS	2022-07-25	Outcrop	Quartz Vein	Qtz vein within a shear zone. 30 cm wide, red and white with pieces of the host rock within. Sample taken. Less sulfides than the host.
DL-JS-011	1101573	717499	5349837	395	JS	2022-07-25	Outcrop	Mafic Volcanic	Strongly sheared mv with a quartz vein running through. Sample taken proximal to 072. Width of sz is about 10 m wide from sample location. 5% sulfides found on margin of vein and mv.
DL-JS-012		717422	5349909	368	JS	2022-07-25	Outcrop	Mafic Volcanic	Fg mv(potentiql gab) sheared. 5 cm cherty vein found. Thinly veined stockwork found beside as well. None to trace sulfides.
DL-JS-013		717466	5349968	355	JS	2022-07-25	Outcrop	Gabbro	Red-black, mg rock composed of mostly mafics with 30% kspar. Trace sulfides observed. Found on side of a hill near the bottom. Not strained. Rep taken. Moving east along ridge there is 10cm qtz vn. 360
DL-JS-014		717532	5349967	371	JS	2022-07-25	Outcrop	Gabbro	Fg to mg gabbro. Weakly silicious, weakly strained to not
DL-JS-015		717676	5349893	372	JS	2022-07-25	Outcrop	Granite	Pink and black rock composed of mostly kspar and chlorite. Occuring in bands. No sulfides. Weak exposure.
DL-JS-016		717827	5349855	356	JS	2022-07-25	Outcrop	Mafic Volcanic	Fg green mv. 10x10 oc. Weak shear.
DL-JS-017		717207	5349321	357	JS	2022-07-25	Outcrop	Mafic Volcanic	20m long roadcut. Sheared mafic volcanic (chlorite schist), fg, green colour. Trace to no sulphides. Contact 3m felsic dyke/sill, also sheared. Dyke dips shallowly to E, intrudes host. Kfs, plag, chlor
DL-JS-018	1101574	716859	5350260	347	JS	2022-07-25	Outcrop	Syenite	Pink, white, green. Syenite likely. Cg. 5m high, 20 m long.not mineralized. Looks faulted on the south side, crumbly, striking 295. Sample taken near greenish-yellow weathering is present -2% pyrite.
DL-JS-019		720419	5347805	353	JS	2022-07-26	Outcrop	Quartz Diorite	Fg- mg grey rock. Composed of quartz groundmass, thin lineated biotite grains. Potentially felsic tuff. No sulphs. Found in fractured outcrop, maybe subcrop. Low exposure area.
DL-JS-020		720382	5348109	380	JS	2022-07-26	Float	Gabbro	Fg-mg gabbro consisting of mostly pyrox, min sili. Minor acicular amphiboles. Very magnetic. 2x2 m boulder in low exposure area. Area is a mixed forest with tall trees. 1 foot or more of oragnics in ob.
DL-JS-021		720306	5348188	378	JS	2022-07-26	Float	Granite	Typical granite composed white fspar, bt, and quartz. Rounded grains. 1x1 boulder with a tree growing in it.
DL-JS-022		720269	5348242	375	JS	2022-07-26	Outcrop	Mafic Volcanic	Fg Mafic volcanic, moderately siliceous. Sheared, 260. Many mm thin qtz veins, very cherty, roughly along shear. 10x10m outcrop, 2x2m exposure. Oxidation present around veins. No sulphides.
DL-JS-023	1101575	720276	5348327	382	JS	2022-07-26	Outcrop	Mafic Volcanic	Gilbert showing area. Area has little exposure. 5x1 m window cleared. 2 strongly sheared sides with a fg insanely sheared centre. Silicious mafic volcanic. Core is a metre wide. Sample taken.

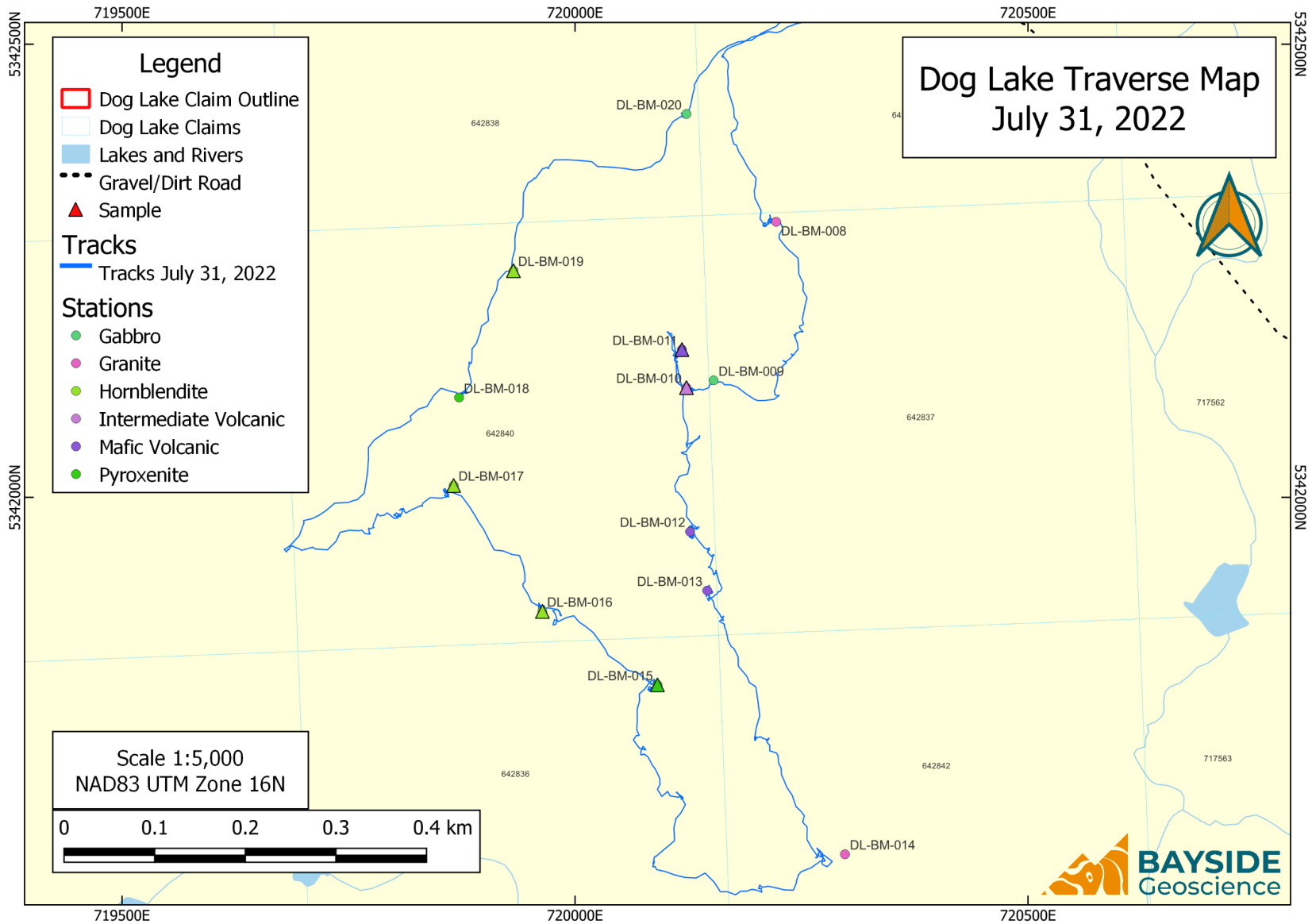
Station ID	Sample ID	Easting	Northing	Elevation	Sample r	Date	Sample Med	Lithology	Notes
DL-JS-024	1101576	720207	5348331	369	JS	2022-07-26	Outcrop	Mafic Volcanic	Strongly sheared mv with moderate silica alt. 10cm wide white quartz vein running along strike - barren. Patchy oxidation, minor bleached section. Thin wavy quartz vein perp to strike. Sample taken.
DL-JS-025	1101577	720162	5348212	368	JS	2022-07-26	Outcrop	Mafic Volcanic	Silicious mv. Oc found near swamp. Sample taken near stockwork. Stockwork composed of qtz with feldspar rims. Offset of the vein.
DL-JS-026		720161	5348137	369	JS	2022-07-26	Outcrop	Mafic Volcanic	Continuation of 025. Quartz stockwork included. No mins found but difficult to get pieces out due to round oc. Sheared as well.
DL-JS-027		720160	5348071	371	JS	2022-07-26	Outcrop	Mafic Volcanic	Large oc near swamp. Sheared mv(chl schist) with felsic dikes cutting through. Dike has pieces of host caught within. Shear looks to shift in different directions on other spots of oc.
DL-JS-028		720151	5347987	366	JS	2022-07-26	Outcrop	Mafic Volcanic	Felsic stockwork intruding mv. Felsics have a granitic composition. Smooth oc, difficult to take a piece out. Veining producing a breccia.
DL-JS-029	1101578	717137	5340352	436	JS	2022-07-27	Subcrop	Pyroxenite	Fg-mg pyroxenite. Earlier interpreted as a lamprophyre. Subcrop off of main body. Northern side of unit. Black- green in colour. Composed of almost all pyroxene. Euhedral grains
DL-JS-030	1101579	717135	5340347	419	JS	2022-07-27	Outcrop	Pyroxenite	Middle of pyroxenite oc. Area has strong felsic veining running parallel. It produces a dioritic appearance Producing a weak becciation. No sulfides observed. Epidote veining observed as well. Oc is 1m
DL-JS-031	1101580	717132	5340341	407	JS	2022-07-27	Outcrop	Pyroxenite	S side of pyroxenite intrusive. No felsic veining in this section. Fg-mg pyroxenite, occasional qtz eyes, slight biotite. Sulphides too fine to identify, trace dissem. Sample taken. Rock is magnetic.
DL-JS-032	1101581	716988	5341965	402	JS	2022-07-27	Outcrop	Pyroxenite	Pyroxenite, fg. Occasional large phenocrysts of pyroxene, also mg phenocrysts of quartz, biotite. One large calcite grain. No sulphides. 20m long x 2m high roadside outcrop.
DL-JS-033	1101582	716944	5341871	394	JS	2022-07-28	Outcrop	Pyroxenite	East side of road. 2 samples taken. Strongly mineralized ultramafic with whisps and blebs of pyrite and lesser cpy. Shear observed to the south end of oc trending n-s. 2 samples taken.
DL-JS-034	1101583	716944	5341871	394	JS	2022-07-28	Outcrop	Pyroxenite	Same as 033. Sample taken from broken piece on ground. Duplicate of 033.
DL-JS-035	1101584	716932	5340011	382	JS	2022-07-28	Subcrop	Pyroxenite	Collection of angular boulders. Cg pyx with minor oxidation on surface with small 0.5cm patch pf malachite. Silver po disseminated throughout. Little to no bt. Sample taken. Strongly mqgnetic.
DL-JS-036	1101585	716868	5340036	402	JS	2022-07-28	Outcrop	Mafic Volcanic	Nearly horizontal contact between pyroxenite and mafic volcanics. Aphanitic overlies phaneritic. Pyroxenite is magnetic. Both rocks dark green. Stringer carbo, chert veins. Sample taken of pyroxenite.
DL-JS-037		716843	5340031	409	JS	2022-07-28	Outcrop	Gabbro	Contact between mv and gabbro, subhorizontal. Gabbro striking 142. 50m long cliff strk 210, 15m high. Contact at point taken. Very large volcanic package atop gabbro. Mv are strongly fol. Blocky.

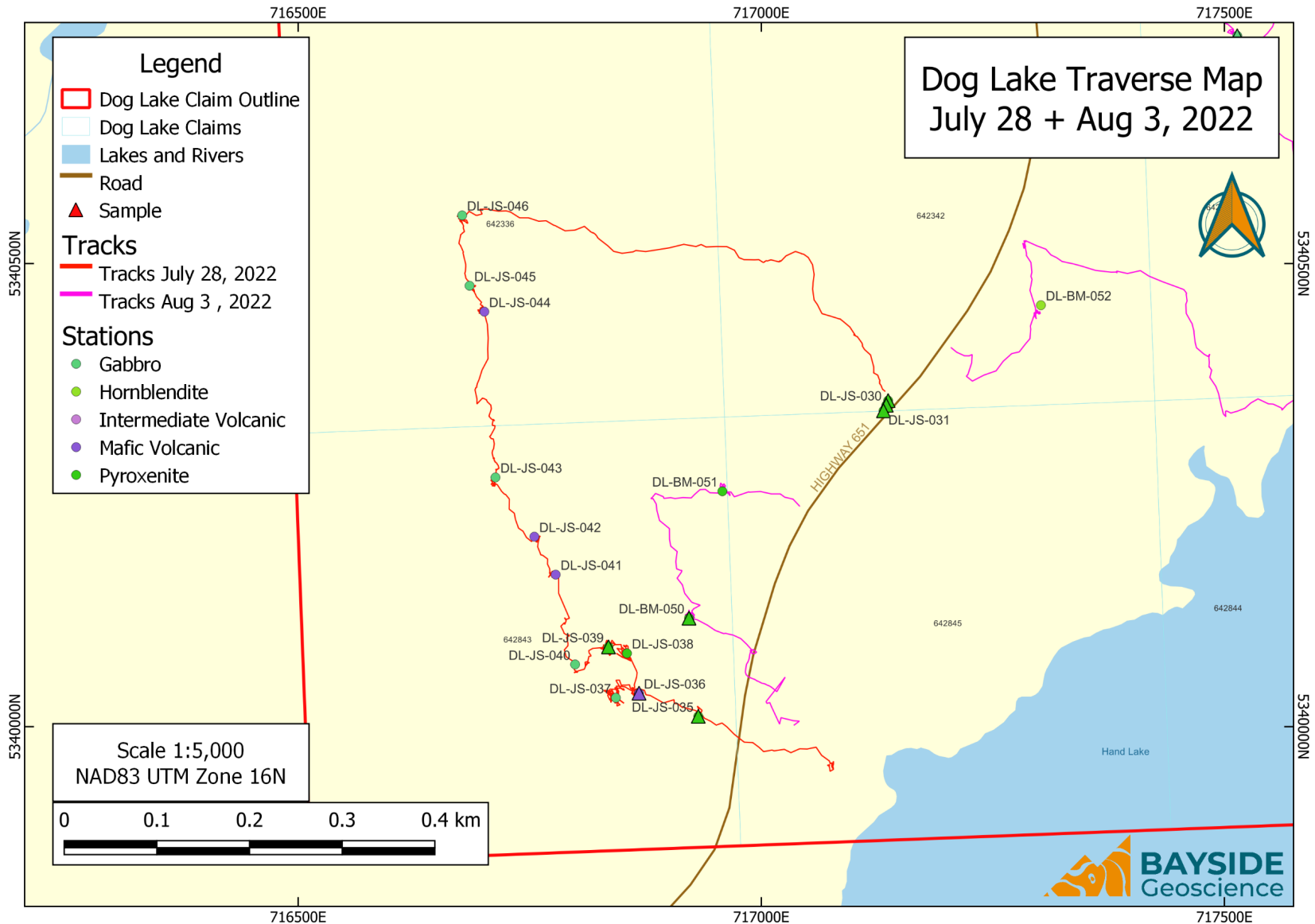


Station ID	Sample ID	Easting	Northing	Elevation	Sample r	Date	Sample Med	Lithology	Notes
DL-JS-038		716855	5340079	425	JS	2022-07-28	Outcrop	Pyroxenite	To the North and adjacent to the mafic volcanics. Fg-mg pyrx with trace sulfides and minor bt. Mod shear. Topographically high. Carbonate veinlets running with shear and through.
DL-JS-039	1101586	716835	5340086	419	JS	2022-07-28	Outcrop	Pyroxenite	Sheared pyroxenite, with 10cm felsic dyke running through. Pieces of qtz in fels dyke. To W, unit is fine, sheared appears mafic volcanic, with stockwork carb veins. Near top of topographic high. K-alt
DL-JS-040		716799	5340067	446	JS	2022-07-28	Outcrop	Gabbro	Mod magnetic gab, fg-mg. Sitting topographically higher than the past samples. More plag than past sample...though last point may also be gab.
DL-JS-041		716778	5340164	438	JS	2022-07-28	Outcrop	Mafic Volcanic	Fg silicious, sheared mafic volcanic with a well defined foliation. Deformed quartz running along shear. Cherty layers within the unit. Pyrite associated along margin of vein. Not magnetic. Heading nw
DL-JS-042		716755	5340205	439	JS	2022-07-28	Outcrop	Mafic Volcanic	Foliated siliceous mafic volcanic with 1cm-10 cm layers. Boudinage Qtz veins observed along foliation, largely unmineralized, 1-8cm wide. Felsic, cherty bands with foliation.
DL-JS-043		716713	5340269	446	JS	2022-07-28	Outcrop	Gabbro	Mg gabbro with angular grains. Strongly magnetic. Oc is 5x5 m blobby. Weak-no foliation. Non mineralized. No veins running through.
DL-JS-044		716701	5340448	427	JS	2022-07-28	Outcrop	Mafic Volcanic	2ft wide mafic unit, between 2 felsic units. Mafic unit is sheared, almost chlorite schist. Sulphides associated along contact. Felsics fine grained, pink, mostly Kspar and qtz. Felsics width unknown
DL-JS-045		716685	5340476	422	JS	2022-07-28	Outcrop	Gabbro	Mg gabbro with mod strain. Magnetic, cross-cutting felsics.
DL-JS-046		716677	5340552	417	JS	2022-07-28	Outcrop	Gabbro	Mg gabbro with minor felsics within it. 10x10 oc, blobby. Difficult to observe, smooth. Weakly magnetic.
DL-JS-047		720125	5347741	375	JS	2022-07-29	Outcrop	Mafic Volcanic	Sheared green-black mv with parallel carb veins, stringers. Weakly magnetic. Fg dom, rare mg pyroxene grain.
DL-JS-048	1101587	720057	5347844	382	JS	2022-07-29	Outcrop	Mafic Volcanic	Contact between granodiorite and mafic volcanic. Breccia zone, felsics are secondary to mafics. This sample taken from mafic. Silicified, chlorite alt also. Has pyrite and chalco.
DL-JS-049	1101588	720057	5347844	382	JS	2022-07-29	Outcrop	Diorite	Same site as 048. Sample taken from breccia, mixed felsics and mafics, 1101588. Some sections syenitic in appearance, strong K alt.
DL-JS-050	1101589	720057	5347844	382	JS	2022-07-29	Outcrop	Granodiorite	Felsic side of contact, sampled as 589. Same site as station 048. mg. Similar syenitic appearance in patches. More felsic trending away from contact.
DL-JS-051	1101590	719987	5347885	383	JS	2022-07-29	Outcrop	Mafic Volcanic	Sheared mafic volcanic-chlorite schist. Significant silica alt. Qtz veins observed in shear. Sample 590 taken with qtz vein. Pyrite mineralization contained dominantly in chlorite schist.

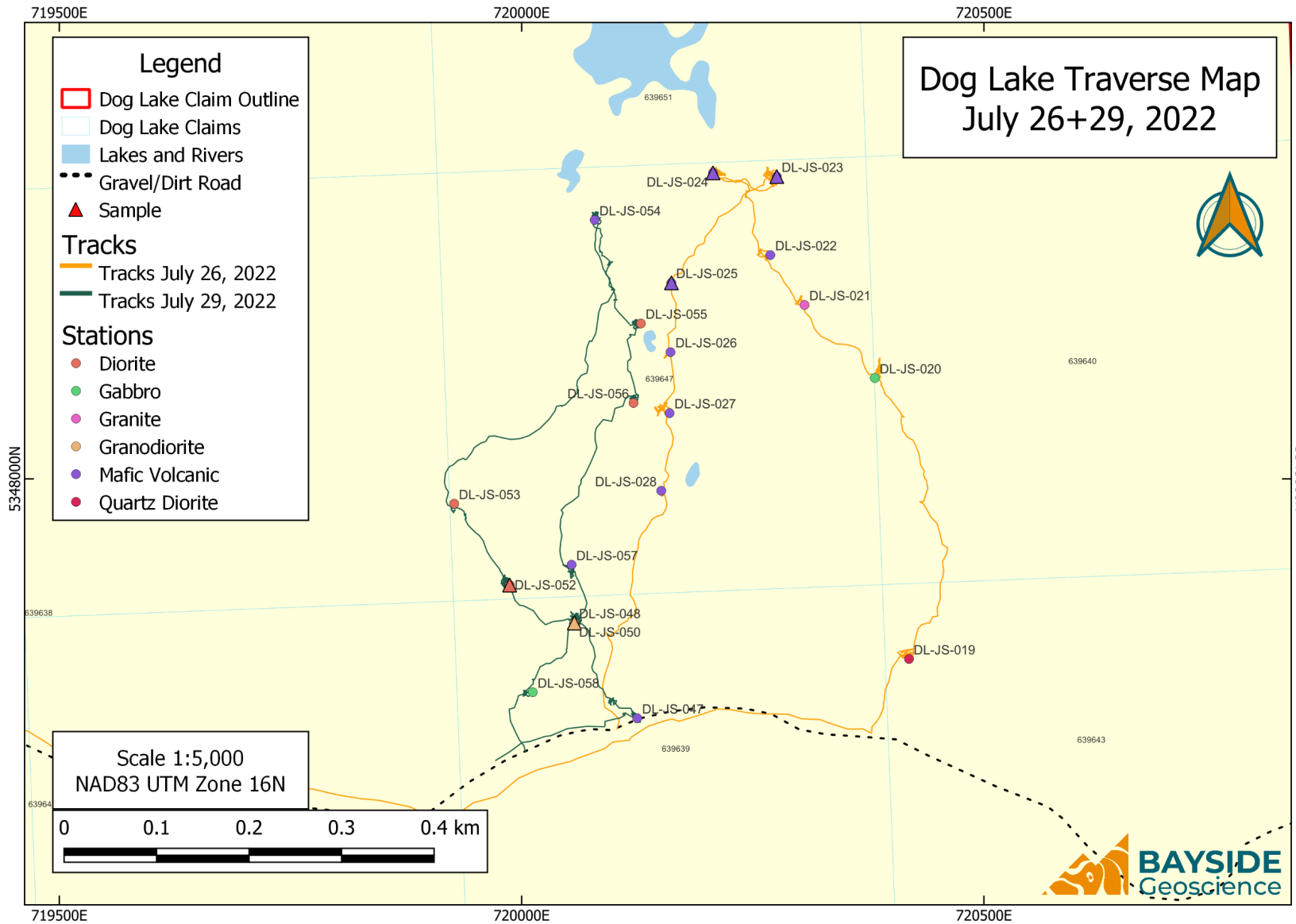
Station ID	Sample ID	Easting	Northing	Elevation	Sample r	Date	Sample Med	Lithology	Notes
DL-JS-052	1101591	719987	5347885	383	JS	2022-07-29	Outcrop	Diorite	Same site as station 051. Sample 591 taken from felsic side of breccia contact. Rock is dioritic, with sections aplite-like, (kspqr Qtz, sugary appearance). Contact is fairly bent. Muscovite in aplite.
DL-JS-053		719927	5347973	386	JS	2022-07-29	Subcrop	Diorite	Under fallen tree. Thick ob in area....1-2 feet moving NW. Green, white dotted diorite.
DL-JS-054		720079	5348280	360	JS	2022-07-29	Float	Mafic Volcanic	Dense overburden area. West of swamp. Boulders composed of mv, gab and granite. Next to gold value.
DL-JS-055		720129	5348168	364	JS	2022-07-29	Outcrop	Diorite	Diorite-leucogabbro, with shear zone running through. Block of strongly sheared, silicified mafic volcanic intruding. Mv has occasional Qtz eyes. Shear 15cm wide. Non-continuous Qtz veins in mv.
DL-JS-056		720121	5348082	365	JS	2022-07-29	Outcrop	Diorite	Mg, int-mafic intrusive, dio-lgabb with weak shear to NE. To SW, stronger shear, more mafic, still with mg felsic porphyroclasts. W side of swamp, no other exposure. No sulphides
DL-JS-057		720054	5347907	382	JS	2022-07-29	Outcrop	Mafic Volcanic	Similar rock to surrounding. Mafic blocks caught up in felsic intrusive/breccia. strike around 240
DL-JS-058		720012	5347769	389	JS	2022-07-29	Outcrop	Gabbro	Mg magnetic gabbro. Lies on a mapped diabase dike, possibly just that. 10x10 oc no mins. Angular grains.
DL-JS-059	1101592	717517	5349816	391	JS	2022-07-30	Outcrop	Gabbro	Medium grained, dark green/grey potential diabase, magnetic. Anglehart showing. Sample taken proximal to QV. QV is snow white to grey barren/unmineralized. Weak strain but proximal to shear zone.
DL-SG-001		717317	5349994	339	SG	2022-07-30	Outcrop	Diorite	Diorite with quartz vein. Mafic minerals in diorite are amphiboles. Vein 5cm wide, no mineralization. Feldspar veinlets also observed
DL-SG-002	1101597	717297	5349985	349	SG	2022-07-30	Outcrop	Diorite	Strongly silicified, sheared, diorite. Sampled from Qtz vein. Chlorite alteration, trending towards fuschite. Other feldspar veins present in shear zone.
DL-SG-003	1101598	717293	5349981	346	SG	2022-07-30	Outcrop	Mafic Volcanic	Sheared mafic volcanic. Rusty-stained section has trace pyrite, and this was sampled. Feldspar/granitic veins observed in shear zone.
DL-SG-004	1101599	717181	5350025	340	SG	2022-07-30	Outcrop	Gabbro	Gabbro. Rusty staining. Sampled. Outcrop is on swamp edge, near ridge with visible light shearing.

Appendix D: Maps





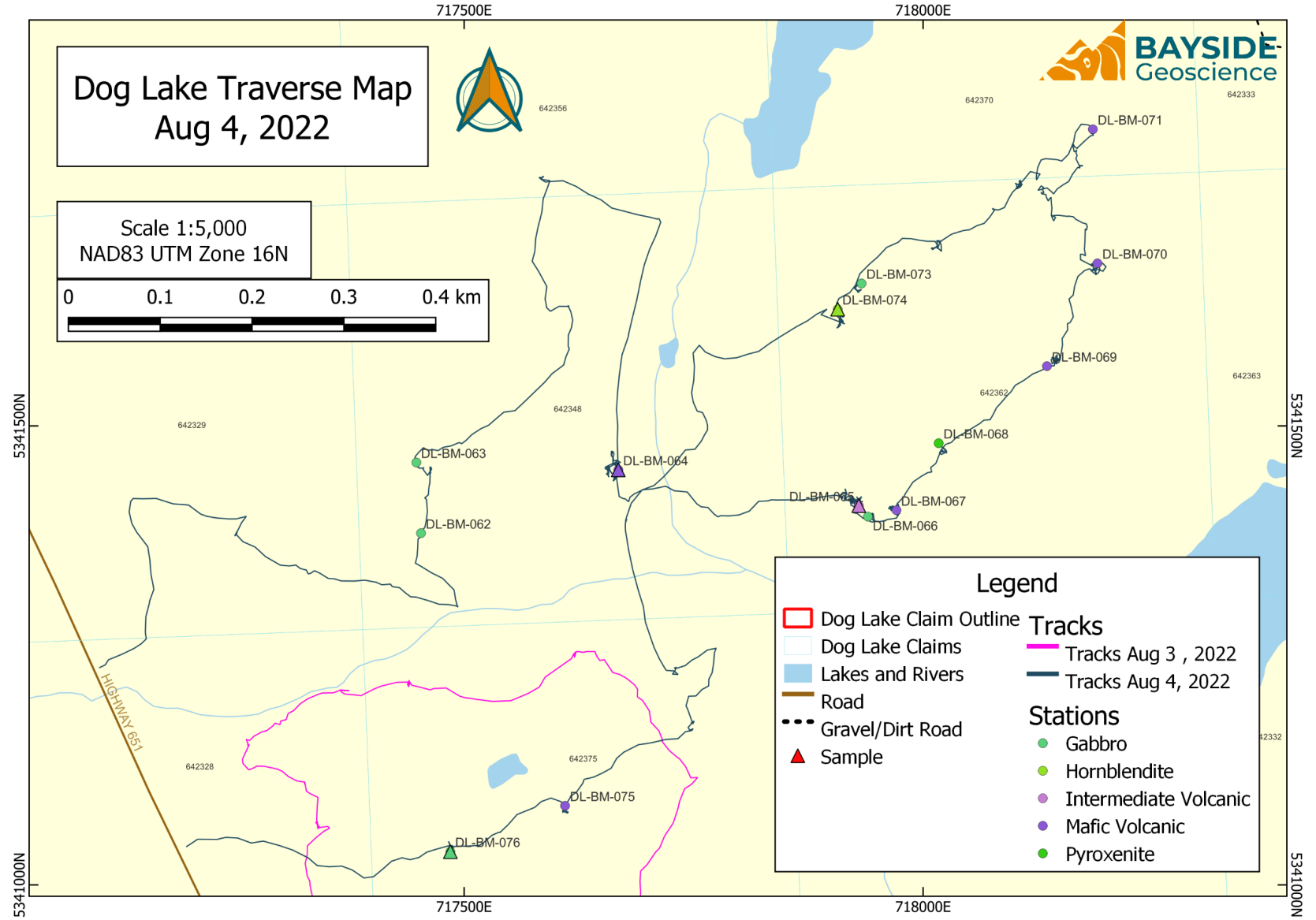
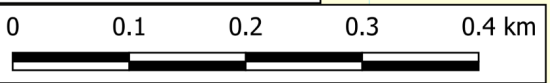




# Dog Lake Traverse Map Aug 4, 2022

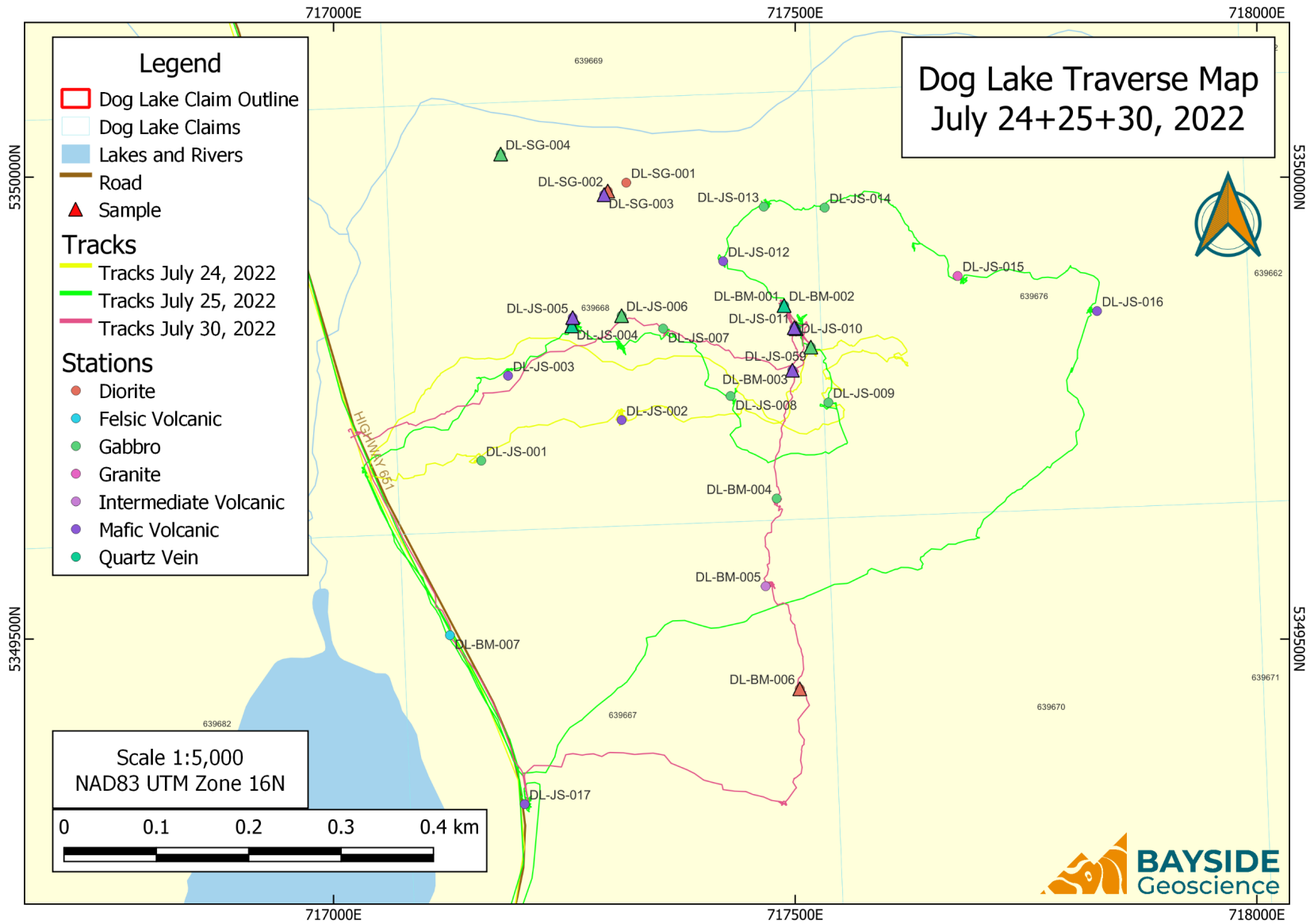


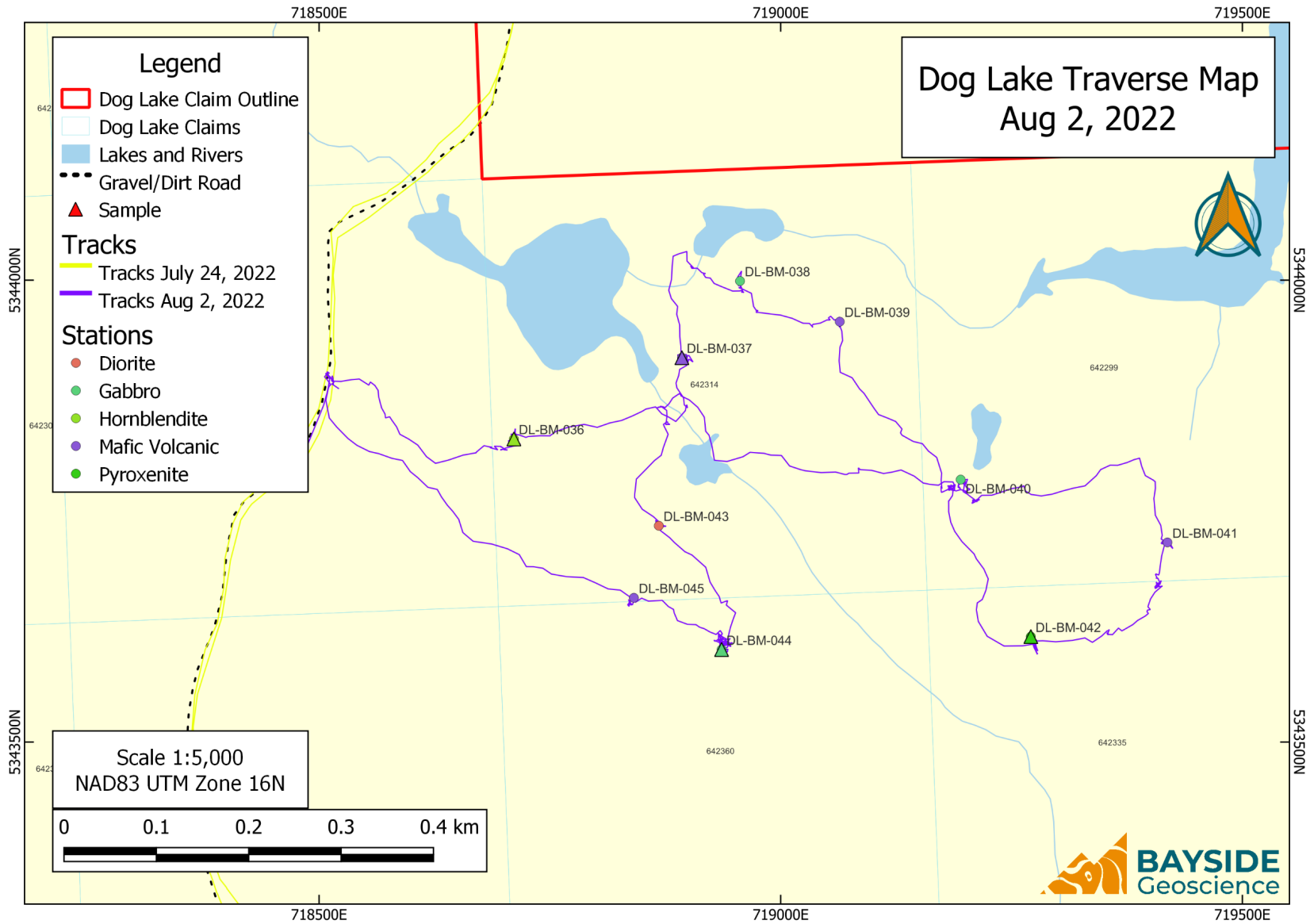
Scale 1:5,000  
NAD83 UTM Zone 16N

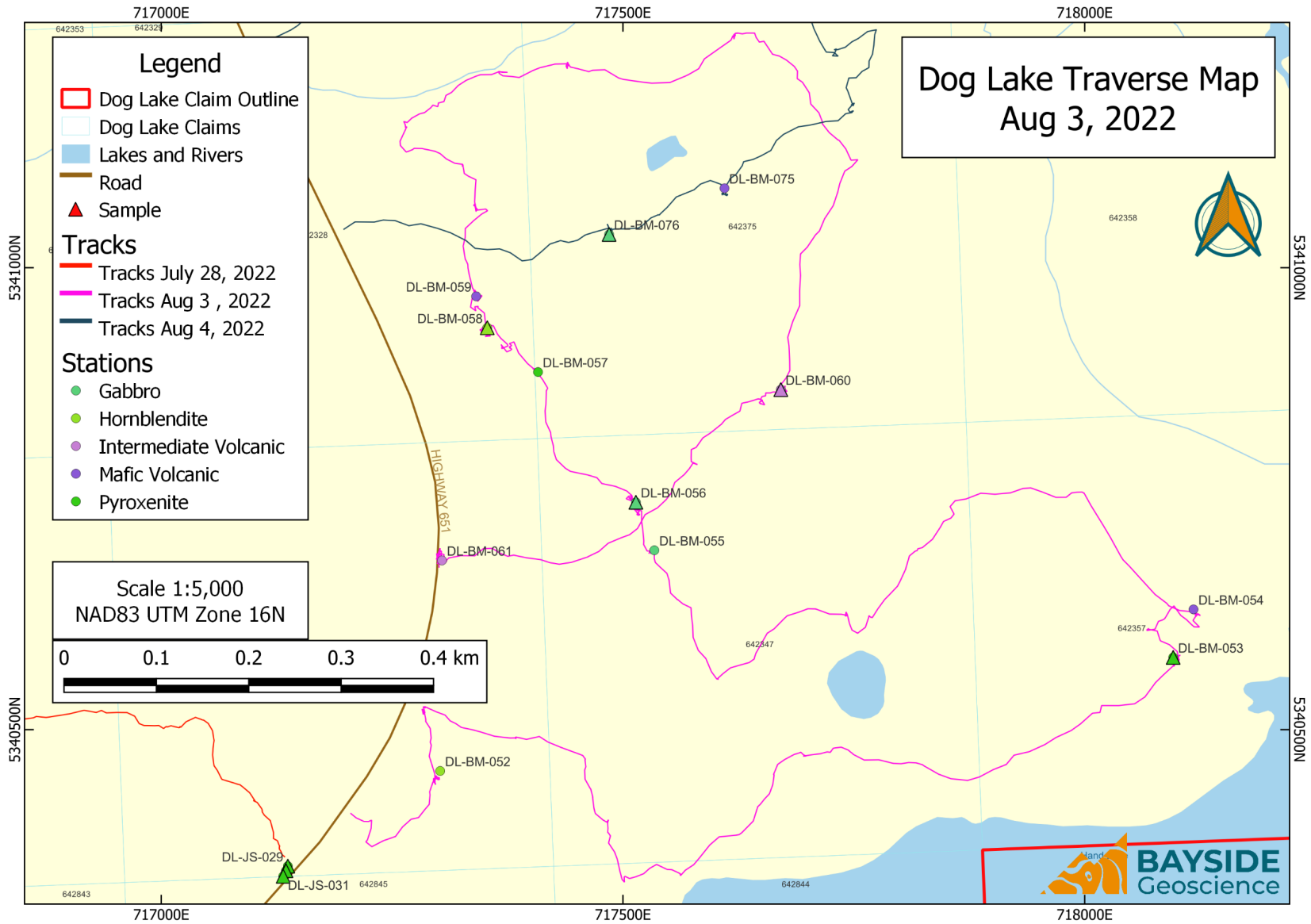


### Legend

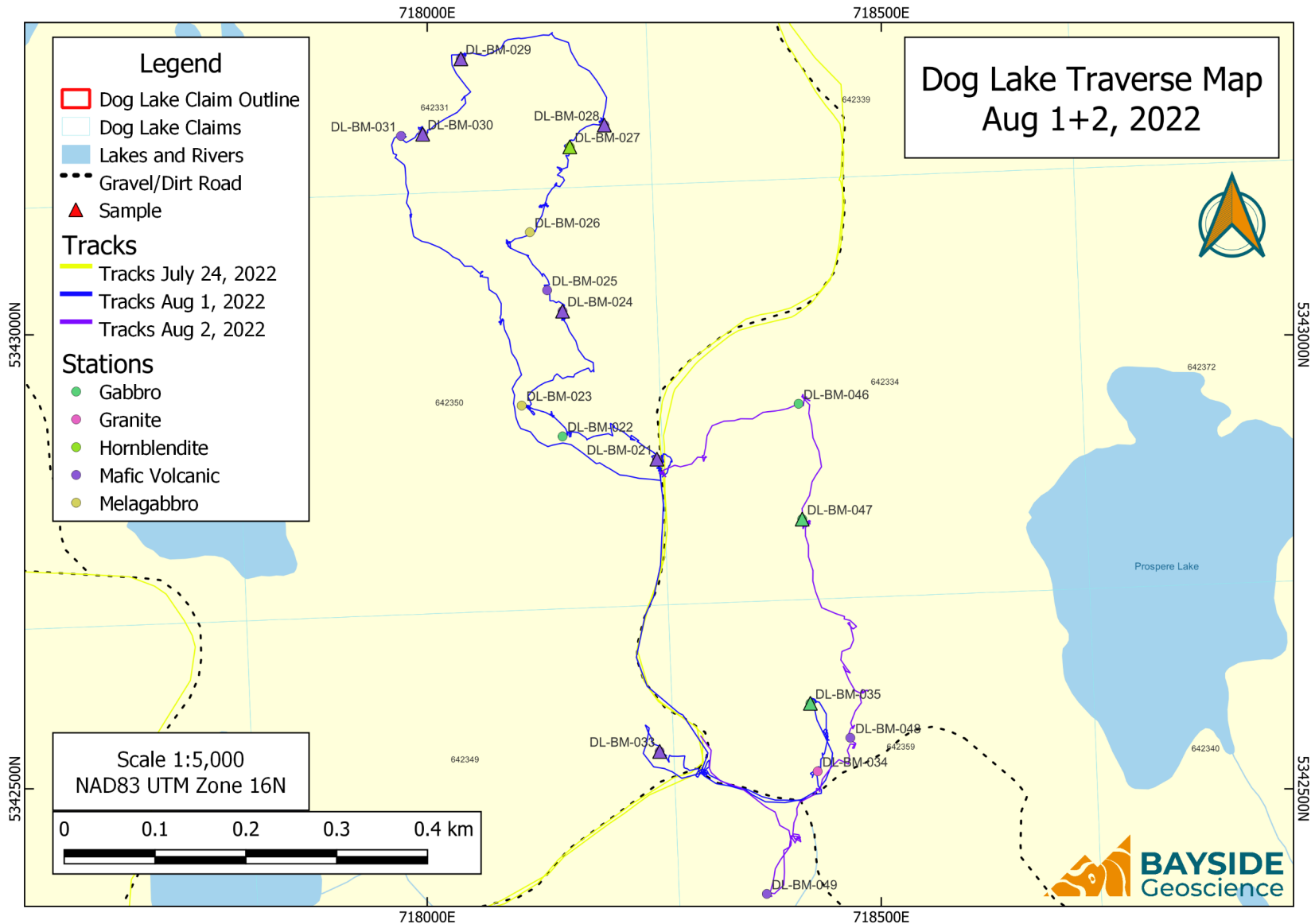
Dog Lake Claim Outline	<b>Tracks</b>
Dog Lake Claims	Tracks Aug 3 , 2022
Lakes and Rivers	Tracks Aug 4, 2022
Road	<b>Stations</b>
Gravel/Dirt Road	Gabbro
Sample	Hornblendite
	Intermediate Volcanic
	Mafic Volcanic
	Pyroxenite











Appendix E: Assay Certificates



Report No.: A22-12107
Report Date: 02-Nov-22
Date Submitted: 24-Aug-22
Your Reference: Dog Lake

Bayside Geoscience
124 Sherwood Dr.
Thunder Bay ON P7B 6L1
Canada

ATTN: Steve Flank

CERTIFICATE OF ANALYSIS

59 Rock samples were submitted for analysis.

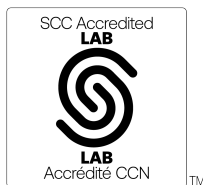
Table with 3 columns: Analytical package, Description, and Testing Date. Rows include 1C-Exp, 1F2, and UT-1M.

REPORT A22-12107

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained.

Notes:

- If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
The Au from AR-MS is for information purposes, for accurate Au fire assay 1A2 should be requested.
Values which exceed the upper limit should be assayed for accurate numbers.
We recommend reanalysis by fire assay Au, Pt, Pd Code 8 if values exceed upper limit.



LabID: 266

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Handwritten signature of Mark Vandergeest

Mark Vandergeest
Quality Control Coordinator

Report No.: A22-12107  
Report Date: 02-Nov-22  
Date Submitted: 24-Aug-22  
Your Reference: Dog Lake

Bayside Geoscience  
124 Sherwood Dr.  
Thunder Bay ON P7B 6L1  
Canada

ATTN: Steve Flank

CERTIFICATE OF ANALYSIS

59 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-Tbay	QOP AA-Au (Au - Fire Assay AA)	2022-09-11 14:07:17

REPORT A22-12107

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

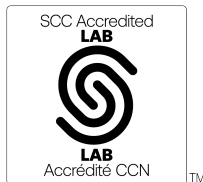
Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

The Au from AR-MS is for information purposes, for accurate Au fire assay 1A2 should be requested.

Values which exceed the upper limit should be assayed for accurate numbers.

We recommend reanalysis by fire assay Au, Pt, Pd Code 8 if values exceed upper limit.



LabID: 673

**ACTIVATION LABORATORIES LTD.**

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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Mark Vandergeest  
Quality Control Coordinator

## Results

## Activation Laboratories Ltd.

## Report: A22-12107

Analyte Symbol	Au	Pd	Pt	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	Mg	Li	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%
Lower Limit	5	1	1	2	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	0.01	0.01	1	1	1	0.01
Method Code	FA-AA	FA-MS	FA-MS	FA-MS	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1101569	< 5																						
1101570	< 5																						
1101571	5																						
1101572	< 5																						
1101573	5																						
1101574	7																						
1101575	< 5																						
1101576	< 5																						
1101577	6																						
1101578		4	8	3	< 0.3	3.84	< 3	159	< 1	< 2	8.17	0.3	60	342	5	9.63	11	0.58	7.79	4	1180	< 1	1.03
1101579		10	29	4	< 0.3	6.57	< 3	> 1000	< 1	< 2	6.61	0.3	36	174	10	6.95	19	0.44	4.32	3	946	< 1	2.53
1101580		4	5	3	< 0.3	3.27	< 3	> 1000	< 1	< 2	6.98	< 0.3	66	368	6	9.65	11	1.81	8.34	11	1090	< 1	0.47
1101581		25	19	3	< 0.3	2.13	4	447	< 1	< 2	10.3	< 0.3	42	365	69	6.88	6	0.71	7.28	14	1180	< 1	0.79
1101582		< 1	< 1	4	< 0.3	3.26	4	690	< 1	< 2	6.63	< 0.3	111	15	302	16.5	15	1.72	5.89	9	1130	< 1	0.39
1101583		< 1	< 1	3	< 0.3	3.36	< 3	864	< 1	< 2	6.03	0.8	111	27	120	17.6	15	2.08	6.08	9	1160	< 1	0.41
1101584		5	3	5	< 0.3	3.99	< 3	103	< 1	< 2	7.07	0.4	73	76	87	16.1	15	0.38	6.38	6	1310	< 1	0.80
1101585	< 5																						
1101586		17	17	4	< 0.3	6.64	< 3	73	< 1	< 2	8.32	< 0.3	42	42	99	11.9	18	0.25	3.70	4	1790	< 1	0.93
1101587	< 5																						
1101588	< 5																						
1101589	< 5																						
1101590	< 5																						
1101591	< 5																						
1101592		< 1	< 1	3	< 0.3	6.04	< 3	14	< 1	< 2	8.47	< 0.3	36	23	68	10.7	18	0.02	2.15	5	1250	< 1	0.06
1101593	5																						
1101594	6																						
1101595	< 5																						
1101596	< 5																						
1101597	< 5																						
1101598	< 5																						
1101599		< 1	< 1	4	< 0.3	8.47	8	27	< 1	< 2	6.08	< 0.3	49	19	90	10.7	18	0.09	3.26	15	1440	< 1	0.79
1101600	< 5																						
1101601	< 5																						
1101602		5	6	6	< 0.3	2.13	< 3	101	< 1	< 2	1.81	< 0.3	97	4630	76	8.19	5	0.01	15.5	2	1170	< 1	0.09
1101603		< 1	< 1	< 2	< 0.3	1.78	< 3	10	< 1	< 2	1.53	< 0.3	110	1800	46	8.94	4	0.02	15.9	2	1240	< 1	0.22
1101604		1	4	3	< 0.3	0.84	< 3	< 7	< 1	2	0.51	< 0.3	133	1690	9	8.25	< 1	< 0.01	18.7	1	1140	< 1	0.05
1101605		2	4	3	< 0.3	1.35	< 3	11	< 1	< 2	1.05	< 0.3	122	1540	11	8.64	1	0.02	18.2	2	1170	< 1	0.09
1101606	< 5																						
1101607	< 5																						
1101608		6	5	4	< 0.3	4.84	< 3	161	< 1	< 2	8.24	< 0.3	58	294	105	9.83	15	0.52	6.41	6	1380	< 1	0.98
1101609	6																						
1101610	5																						
1101611		2	2	6	< 0.3	5.36	< 3	134	< 1	< 2	7.09	< 0.3	61	235	68	12.4	17	0.49	6.48	5	1040	< 1	0.97
1101612	< 5																						
1101613		2	1	4	< 0.3	7.07	< 3	201	1	< 2	5.45	< 0.3	32	315	30	8.46	19	0.61	3.73	13	1150	< 1	2.41
1101614	8																						
1101615	8																						
1101616		9	11	4	< 0.3	6.51	6	29	< 1	< 2	8.10	< 0.3	52	224	214	9.84	16	0.15	4.44	8	1370	< 1	0.76
1101617		< 1	< 1	6	< 0.3	6.78	< 3	61	< 1	< 2	5.70	< 0.3	22	7	127	7.64	22	0.20	0.94	16	1180	< 1	2.02
1101618		< 1	< 1	4	< 0.3	8.54	4	405	< 1	< 2	4.88	< 0.3	28	15	28	5.51	16	1.13	3.07	16	971	< 1	2.47
1101619		< 1	< 1	4	< 0.3	7.11	< 3	42	< 1	< 2	5.86	0.3	58	6	55	13.9	18	0.16	3.88	8	2140	< 1	1.25

Results

Activation Laboratories Ltd.

Report: A22-12107

Analyte Symbol	Au	Pd	Pt	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	Mg	Li	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%
Lower Limit	5	1	1	2	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	0.01	0.01	1	1	1	0.01
Method Code	FA-AA	FA-MS	FA-MS	FA-MS	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1101620		6	13	5	< 0.3	4.65	7	200	< 1	< 2	9.38	< 0.3	64	145	140	12.2	16	0.63	7.34	4	1500	< 1	1.10
1101621		11	11	6	< 0.3	7.57	13	251	< 1	< 2	7.09	0.4	47	102	164	10.2	18	0.60	3.89	5	1580	< 1	1.73
1101622		8	10	6	< 0.3	4.81	15	181	< 1	< 2	9.33	< 0.3	68	58	198	15.3	20	0.51	6.70	2	1580	< 1	0.90
1101623	< 5																						
1101624	< 5																						
1101625	< 5																						
1101626		< 1	< 1	3	< 0.3	5.81	8	142	< 1	< 2	8.48	0.3	66	282	15	10.3	16	0.58	7.78	4	1260	< 1	1.17
1101627		11	11	5	< 0.3	7.18	14	205	< 1	< 2	6.84	0.5	46	122	156	10.9	19	0.47	3.79	11	1750	< 1	1.60



## Results

## Activation Laboratories Ltd.

## Report: A22-12107

Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ag	Al	As	Au	B	Ba	Bi
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	0.1	0.01	0.5	0.5	20	1	0.1
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
1101569																	< 0.1	0.16	1.2	1.9	< 20	3	< 0.1
1101570																	< 0.1	2.04	1.0	1.9	< 20	11	< 0.1
1101571																	< 0.1	3.61	< 0.5	1.7	< 20	6	< 0.1
1101572																	< 0.1	0.19	0.9	0.6	< 20	3	< 0.1
1101573																	0.3	1.93	1.3	1.9	< 20	14	0.4
1101574																	0.3	0.25	0.9	6.0	< 20	31	1.9
1101575																	< 0.1	2.24	0.6	0.8	< 20	9	< 0.1
1101576																	< 0.1	2.32	< 0.5	< 0.5	< 20	10	< 0.1
1101577																	0.1	2.25	1.0	2.8	< 20	24	< 0.1
1101578	145	0.004	< 3	< 5	< 0.01	84	293	< 2	0.16	< 5	< 10	199	< 5	17	84	35							
1101579	94	0.119	< 3	< 5	0.05	30	1110	4	0.30	< 5	< 10	113	< 5	15	100	70							
1101580	167	0.025	< 3	< 5	0.01	51	189	< 2	0.11	< 5	< 10	160	< 5	9	105	17							
1101581	100	0.074	< 3	< 5	0.01	57	240	< 2	0.28	< 5	< 10	199	< 5	11	57	32							
1101582	133	0.414	5	< 5	0.44	49	226	< 2	0.18	< 5	< 10	426	6	13	117	6							
1101583	120	0.223	< 3	< 5	0.57	56	183	3	0.24	< 5	< 10	484	< 5	10	122	16							
1101584	200	0.018	< 3	< 5	0.01	51	194	< 2	0.22	< 5	< 10	342	< 5	17	123	32							
1101585																	< 0.1	3.27	1.4	1.0	< 20	34	< 0.1
1101586	48	0.040	< 3	< 5	0.14	52	573	4	0.40	< 5	< 10	315	5	25	107	25							
1101587																	< 0.1	1.66	1.9	1.2	< 20	28	< 0.1
1101588																	< 0.1	1.61	0.8	1.5	< 20	21	< 0.1
1101589																	< 0.1	1.32	0.7	1.6	< 20	31	< 0.1
1101590																	< 0.1	2.19	0.9	0.7	< 20	15	< 0.1
1101591																	< 0.1	1.46	0.9	< 0.5	< 20	13	< 0.1
1101592	20	0.071	< 3	< 5	1.72	39	616	< 2	0.29	< 5	< 10	177	< 5	32	60	72							
1101593																	< 0.1	2.62	1.5	0.6	< 20	19	< 0.1
1101594																	0.2	0.15	0.8	1.7	< 20	3	0.4
1101595																	< 0.1	2.08	2.6	1.4	< 20	8	< 0.1
1101596																	< 0.1	0.44	1.0	< 0.5	< 20	24	< 0.1
1101597																	< 0.1	1.50	1.1	0.9	< 20	3	< 0.1
1101598																	0.1	2.84	1.8	3.2	< 20	9	0.4
1101599	59	0.125	4	< 5	0.17	39	333	4	0.36	< 5	< 10	172	< 5	18	88	8							
1101600																	< 0.1	0.93	0.8	< 0.5	< 20	4	0.1
1101601																	< 0.1	3.33	0.9	< 0.5	< 20	13	0.4
1101602	1360	0.038	< 3	< 5	0.10	13	29	< 2	0.21	< 5	< 10	93	< 5	5	89	10							
1101603	1480	0.012	6	< 5	0.09	13	27	3	0.13	< 5	< 10	68	< 5	3	102	11							
1101604	2700	0.009	< 3	< 5	0.03	6	7	< 2	0.06	< 5	< 10	34	< 5	2	91	8							
1101605	2040	0.009	< 3	< 5	0.02	8	23	3	0.06	< 5	< 10	41	< 5	2	103	7							
1101606																	< 0.1	3.50	1.1	< 0.5	< 20	19	< 0.1
1101607																	< 0.1	3.18	1.6	1.2	< 20	10	< 0.1
1101608	244	0.095	< 3	< 5	0.03	44	329	8	0.22	< 5	< 10	171	< 5	19	110	36							
1101609																	< 0.1	3.14	1.7	2.4	< 20	35	< 0.1
1101610																	< 0.1	1.66	< 0.5	0.6	< 20	227	< 0.1
1101611	168	0.162	< 3	< 5	0.09	44	292	5	0.14	< 5	< 10	244	< 5	19	94	15							
1101612																	< 0.1	1.84	1.7	0.9	< 20	11	< 0.1
1101613	123	0.076	< 3	< 5	0.06	32	641	7	0.44	< 5	< 10	151	< 5	30	128	79							
1101614																	< 0.1	2.31	0.8	1.6	< 20	15	< 0.1
1101615																	0.1	1.91	1.8	2.1	< 20	16	< 0.1
1101616	86	0.014	< 3	< 5	0.20	46	104	5	0.25	< 5	< 10	218	< 5	16	90	10							
1101617	7	0.124	< 3	< 5	0.69	18	205	< 2	0.44	< 5	< 10	48	< 5	17	48	43							
1101618	53	0.025	< 3	< 5	0.08	24	345	7	0.21	< 5	< 10	98	< 5	10	68	26							
1101619	32	0.036	< 3	< 5	0.02	46	105	3	0.26	< 5	< 10	267	< 5	24	147	14							

Results

Activation Laboratories Ltd.

Report: A22-12107

Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ag	Al	As	Au	B	Ba	Bi
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	0.1	0.01	0.5	0.5	20	1	0.1
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
1101620	90	0.505	< 3	< 5	0.01	57	467	< 2	0.24	< 5	< 10	183	< 5	31	127	19							
1101621	81	0.066	< 3	< 5	0.10	41	137	3	0.40	< 5	< 10	201	< 5	28	104	73							
1101622	74	0.770	< 3	< 5	0.03	56	414	4	0.20	< 5	< 10	255	< 5	35	130	12							
1101623																	< 0.1	1.69	0.9	0.8	< 20	145	< 0.1
1101624																	< 0.1	2.91	1.3	< 0.5	< 20	35	< 0.1
1101625																	< 0.1	2.59	1.2	0.7	< 20	55	< 0.1
1101626	256	0.008	< 3	< 5	< 0.01	63	253	< 2	0.21	< 5	< 10	239	< 5	19	100	32							
1101627	75	0.079	4	< 5	0.06	41	141	6	0.45	< 5	< 10	196	< 5	30	111	93							

## Results

## Activation Laboratories Ltd.

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Analyte Symbol	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Se	Sr	Te
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	1	0.2	0.01	1	0.01	0.01	1	0.01	1	0.1	0.001	0.1	0.001	0.1	1	0.1	0.1	0.5	1	0.2
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
1101569	0.23	< 0.1	1.8	34	15.8	0.66	< 1	0.04	< 0.01	< 1	0.09	83	4.0	0.013	4.7	0.003	0.5	< 1	< 0.1	0.8	< 0.5	14	< 0.2
1101570	2.06	< 0.1	22.4	73	12.1	3.90	6	0.04	0.04	1	1.66	602	0.4	0.098	36.4	0.008	1.4	< 1	< 0.1	10.8	0.6	62	< 0.2
1101571	2.44	< 0.1	29.0	78	108	3.87	7	0.10	0.02	3	3.31	687	0.5	0.019	126	0.013	1.1	< 1	< 0.1	6.2	< 0.5	309	< 0.2
1101572	0.14	< 0.1	2.9	31	22.7	0.94	< 1	0.09	< 0.01	< 1	0.12	93	1.3	0.022	4.8	0.002	8.0	< 1	< 0.1	0.5	0.9	4	< 0.2
1101573	1.91	< 0.1	31.4	25	220	4.60	7	0.06	0.06	< 1	1.14	414	1.0	0.097	40.6	0.013	2.9	< 1	< 0.1	7.7	1.4	47	< 0.2
1101574	0.14	< 0.1	7.8	6	23.0	1.71	2	0.05	0.05	8	0.10	51	0.5	0.118	4.2	0.028	9.4	1	< 0.1	1.3	1.5	17	< 0.2
1101575	2.41	< 0.1	20.0	36	34.0	2.95	5	0.04	0.07	1	1.35	509	0.3	0.083	30.2	0.015	0.9	< 1	< 0.1	8.2	1.0	53	< 0.2
1101576	3.97	< 0.1	13.2	9	17.7	5.21	12	0.06	0.07	5	0.56	846	0.5	0.185	4.1	0.113	1.4	< 1	< 0.1	13.4	0.9	162	< 0.2
1101577	2.87	< 0.1	23.8	35	311	5.30	9	0.04	0.12	5	1.20	749	0.6	0.225	14.0	0.048	2.0	< 1	< 0.1	15.3	1.4	48	< 0.2
1101578																							
1101579																							
1101580																							
1101581																							
1101582																							
1101583																							
1101584																							
1101585	3.25	0.1	39.5	8	123	8.67	10	0.07	0.07	2	2.21	1040	0.3	0.186	27.5	0.057	0.9	< 1	< 0.1	19.6	1.2	147	< 0.2
1101586																							
1101587	1.87	< 0.1	19.6	20	68.1	4.66	8	0.08	0.09	7	1.09	571	0.5	0.173	18.1	0.108	1.4	< 1	< 0.1	8.0	1.0	32	< 0.2
1101588	1.66	< 0.1	12.1	16	71.3	3.99	7	0.06	0.12	6	0.88	585	0.4	0.182	11.8	0.091	1.5	< 1	< 0.1	7.9	1.1	28	< 0.2
1101589	1.05	< 0.1	8.8	17	65.5	3.23	6	0.05	0.09	4	0.65	347	0.6	0.103	8.5	0.067	1.7	< 1	< 0.1	5.3	0.9	46	< 0.2
1101590	2.07	< 0.1	22.0	30	17.9	3.44	6	0.04	0.05	4	1.64	534	0.8	0.122	53.0	0.033	0.9	< 1	< 0.1	7.2	0.8	51	< 0.2
1101591	1.94	< 0.1	16.6	23	22.1	2.85	5	0.03	0.08	6	1.17	378	0.8	0.151	34.0	0.082	1.3	< 1	< 0.1	6.4	1.0	39	< 0.2
1101592																							
1101593	1.84	< 0.1	22.8	25	45.2	5.02	10	0.03	0.03	13	1.60	562	0.4	0.065	26.5	0.105	2.8	< 1	< 0.1	5.8	1.1	103	< 0.2
1101594	0.22	< 0.1	1.5	34	60.0	0.75	< 1	0.03	< 0.01	< 1	0.07	91	3.0	0.021	3.8	0.004	2.5	< 1	< 0.1	0.4	0.8	5	< 0.2
1101595	3.30	< 0.1	22.7	104	65.1	2.41	6	0.09	0.02	1	0.69	380	0.5	0.058	66.0	0.023	1.0	< 1	< 0.1	5.8	0.9	51	< 0.2
1101596	0.35	< 0.1	5.3	22	26.1	0.79	2	0.07	0.07	2	0.12	76	0.8	0.076	19.8	0.001	8.4	< 1	< 0.1	1.1	0.6	29	< 0.2
1101597	2.57	< 0.1	4.9	58	43.2	1.64	5	0.06	< 0.01	2	0.19	173	1.3	0.030	14.2	0.026	0.9	< 1	< 0.1	5.9	0.6	215	< 0.2
1101598	2.25	< 0.1	27.8	135	152	5.15	7	0.05	0.01	3	1.95	758	4.6	0.055	78.8	0.049	1.4	< 1	< 0.1	7.0	0.9	149	0.3
1101599																							
1101600	0.86	< 0.1	4.6	104	2.2	1.64	6	0.05	< 0.01	2	0.72	134	1.4	0.025	38.1	0.013	0.8	< 1	< 0.1	1.9	0.5	156	< 0.2
1101601	3.23	< 0.1	40.1	21	86.2	7.77	13	0.04	0.02	9	2.24	595	0.6	0.028	22.2	0.092	1.8	< 1	< 0.1	12.7	1.0	270	< 0.2
1101602																							
1101603																							
1101604																							
1101605																							
1101606	3.45	< 0.1	28.5	87	80.6	4.06	7	0.07	0.06	2	1.77	603	0.4	0.464	91.5	0.073	0.8	< 1	< 0.1	11.7	1.0	98	< 0.2
1101607	3.34	< 0.1	29.0	65	42.5	4.50	7	0.06	0.03	< 1	1.86	774	0.2	0.271	45.6	0.022	0.4	< 1	< 0.1	16.0	0.8	57	< 0.2
1101608																							
1101609	2.47	< 0.1	48.2	69	64.2	6.55	9	0.06	0.07	3	2.42	817	0.2	0.120	111	0.077	1.1	< 1	< 0.1	11.4	0.8	116	< 0.2
1101610	2.44	< 0.1	25.9	61	39.9	5.74	11	0.04	1.02	28	1.62	578	0.4	0.132	51.1	0.164	3.0	< 1	< 0.1	6.0	1.0	309	< 0.2
1101611																							
1101612	2.25	< 0.1	23.1	39	34.5	5.67	7	0.05	0.05	2	1.12	642	1.8	0.179	21.0	0.053	0.8	< 1	< 0.1	11.3	1.1	18	< 0.2
1101613																							
1101614	2.57	< 0.1	35.3	27	90.3	5.77	8	0.04	0.05	3	1.64	735	0.3	0.299	59.8	0.085	0.5	< 1	< 0.1	10.7	1.2	22	< 0.2
1101615	1.28	< 0.1	32.2	57	103	4.29	5	0.02	0.04	1	1.76	536	0.1	0.156	81.2	0.052	0.6	< 1	< 0.1	5.8	1.1	18	< 0.2
1101616																							
1101617																							
1101618																							
1101619																							

Analyte Symbol	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Se	Sr	Te
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	1	0.2	0.01	1	0.01	0.01	1	0.01	1	0.1	0.001	0.1	0.001	0.1	1	0.1	0.1	0.5	1	0.2
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
1101620																							
1101621																							
1101622																							
1101623	1.36	< 0.1	16.4	5	90.0	5.20	8	0.03	0.41	9	0.35	352	0.5	0.332	8.6	0.078	1.8	< 1	< 0.1	6.7	0.7	35	< 0.2
1101624	3.42	< 0.1	53.7	177	245	7.05	9	0.08	0.16	4	2.76	641	0.1	0.347	76.9	0.230	0.9	< 1	< 0.1	15.2	1.3	136	< 0.2
1101625	2.29	< 0.1	31.1	28	36.5	3.19	5	0.09	0.06	< 1	2.23	461	0.1	0.085	110	0.044	1.0	< 1	< 0.1	7.8	0.9	129	< 0.2
1101626																							
1101627																							

## Results

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Analyte Symbol	Th	Ti	Tl	V	W	Zn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.001	0.1	2	0.1	1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
1101569	< 0.1	0.014	< 0.1	9	0.9	5
1101570	0.3	0.217	< 0.1	106	< 0.1	43
1101571	0.5	0.092	< 0.1	40	1.2	65
1101572	< 0.1	0.028	< 0.1	8	0.7	6
1101573	< 0.1	0.349	< 0.1	92	0.1	38
1101574	3.5	0.064	< 0.1	9	0.1	12
1101575	0.1	0.207	< 0.1	74	0.1	38
1101576	0.4	0.343	< 0.1	47	0.1	54
1101577	0.5	0.178	< 0.1	146	0.2	58
1101578						
1101579						
1101580						
1101581						
1101582						
1101583						
1101584						
1101585	0.2	0.339	< 0.1	246	0.1	90
1101586						
1101587	0.9	0.238	< 0.1	61	0.2	58
1101588	1.0	0.169	< 0.1	48	0.1	49
1101589	0.6	0.154	< 0.1	29	0.2	35
1101590	0.4	0.120	< 0.1	75	0.3	71
1101591	0.8	0.148	< 0.1	63	0.2	38
1101592						
1101593	1.3	0.259	< 0.1	89	0.4	80
1101594	< 0.1	0.012	< 0.1	9	1.2	14
1101595	< 0.1	0.203	< 0.1	74	< 0.1	23
1101596	5.9	0.020	< 0.1	8	0.4	6
1101597	0.2	0.178	< 0.1	55	0.3	8
1101598	1.0	0.267	< 0.1	86	0.1	57
1101599						
1101600	0.4	0.081	< 0.1	37	1.1	11
1101601	2.1	0.473	< 0.1	233	0.5	48
1101602						
1101603						
1101604						
1101605						
1101606	0.1	0.188	< 0.1	95	< 0.1	50
1101607	< 0.1	0.254	< 0.1	122	< 0.1	51
1101608						
1101609	0.6	0.303	< 0.1	149	0.1	95
1101610	1.2	0.190	0.5	155	< 0.1	83
1101611						
1101612	0.2	0.188	< 0.1	156	0.2	59
1101613						
1101614	< 0.1	0.187	< 0.1	105	0.1	74
1101615	< 0.1	0.135	< 0.1	87	0.4	55
1101616						
1101617						
1101618						
1101619						

**Results****Activation Laboratories Ltd.****Report: A22-12107**

Analyte Symbol	Th	Ti	Tl	V	W	Zn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.001	0.1	2	0.1	1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
1101620						
1101621						
1101622						
1101623	1.6	0.165	0.1	202	< 0.1	51
1101624	< 0.1	0.255	< 0.1	239	0.2	77
1101625	< 0.1	0.180	< 0.1	72	0.2	44
1101626						
1101627						



Analyte Symbol	Au	Pd	Pt	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	Mg	Li	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%
Lower Limit	5	1	1	2	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	0.01	0.01	1	1	1	0.01
Method Code	FA-AA	FA-MS	FA-MS	FA-MS	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
OREAS 101b (4 Acid) Meas													51		467	11.1		2.51	1.38		1060	21	
OREAS 101b (4 Acid) Cert													45		412	10.7		2.36	1.23		927	20.1	
OREAS 101b (4 Acid) Meas													43		396	9.73		1.37	1.17		888	20	
OREAS 101b (4 Acid) Cert													45		412	10.7		2.36	1.23		927	20.1	
OREAS 101b (4 Acid) Meas													45		437	10.6		2.44	1.29		947	20	
OREAS 101b (4 Acid) Cert													45		412	10.7		2.36	1.23		927	20.1	
OREAS 98 (4 Acid) Meas					45.1					46			125		> 10000								
OREAS 98 (4 Acid) Cert					45.1					97.2			121		14800 0.0								
OREAS 98 (4 Acid) Meas					40.8					41			118		> 10000								
OREAS 98 (4 Acid) Cert					45.1					97.2			121		14800 0.0								
OREAS 13b (4-Acid) Meas					1.0		48						71	9770	2340								8
OREAS 13b (4-Acid) Cert					0.86		57						75	8650.0 00	2327.0 000								9
OREAS 13b (4-Acid) Meas					1.0		45						70	9530	2350								10
OREAS 13b (4-Acid) Cert					0.86		57						75	8650.0 00	2327.0 000								9
OREAS 13b (4-Acid) Meas					0.9		52						71	9120	2390								10
OREAS 13b (4-Acid) Cert					0.86		57						75	8650.0 00	2327.0 000								9
OREAS 904 (4 Acid) Meas					0.5	6.70	98	220	9	< 2	0.05		97	64	6480	7.15	17	2.85	0.59	16	444	2	0.03
OREAS 904 (4 Acid) Cert					0.551	6.30	98.0	194	7.86	4.05	0.0460		83.0	54.0	6120	6.68	16.7	3.31	0.556	16.7	410	2.12	0.0340
OREAS 904 (4 Acid) Meas					0.5	6.06	90	184	8	7	0.05		87	56	5840	6.88	17	2.05	0.56	16	438	2	0.04
OREAS 904 (4 Acid) Cert					0.551	6.30	98.0	194	7.86	4.05	0.0460		83.0	54.0	6120	6.68	16.7	3.31	0.556	16.7	410	2.12	0.0340
OREAS 904 (4 Acid) Meas					1.1	6.49	99	224	8	2	0.05		91	65	6280	7.00	18	3.41	0.59	16	450	2	0.03
OREAS 904 (4 Acid) Cert					0.551	6.30	98.0	194	7.86	4.05	0.0460		83.0	54.0	6120	6.68	16.7	3.31	0.556	16.7	410	2.12	0.0340
OREAS 45d (Aqua Regia) Meas																							
OREAS 45d (Aqua Regia) Cert																							
OREAS 45d (4-Acid) Meas					7.93		5	186	< 1	5	0.18		30	563	371	14.5	21	0.42	0.24	21	517	< 1	0.09
OREAS 45d (4-Acid) Cert					8.150		13.8	183.0	0.79	0.31	0.185		29.50	549	371	14.5	21.20	0.412	0.245	21.5	490.000	2.500	0.101
OREAS 45d (4-Acid) Meas					8.10		8	201	< 1	< 2	0.20		30	573	393	14.7	21	0.43	0.26	21	521	< 1	0.09
OREAS 45d (4-Acid) Cert					8.150		13.8	183.0	0.79	0.31	0.185		29.50	549	371	14.5	21.20	0.412	0.245	21.5	490.000	2.500	0.101
OREAS 45d (4-Acid) Meas					8.07		7	190	< 1	< 2	0.19		30	580	386	13.9	21	0.41	0.25	21	494	< 1	0.10

Analyte Symbol	Au	Pd	Pt	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	Mg	Li	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	5	1	1	2	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	0.01	0.01	1	1	1	0.01
Method Code	FA-AA	FA-MS	FA-MS	FA-MS	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
OREAS 45d (4-Acid) Cert						8.150	13.8	183.0	0.79	0.31	0.185		29.50	549	371	14.5	21.20	0.412	0.245	21.5	490.000	2.500	0.101
OREAS 922 (AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert																							
OREAS 907 (Aqua Regia) Meas																							
OREAS 907 (Aqua Regia) Cert																							
CDN-PGMS-27 Meas		1920	1200	4590																			
CDN-PGMS-27 Cert		2000	1290.00	4800																			
OREAS 96 (4 Acid) Meas					10.8					7			47		> 10000								
OREAS 96 (4 Acid) Cert					11.5					26.3			49.9		39300								
OREAS 96 (4 Acid) Meas					11.3					10			47		> 10000								
OREAS 96 (4 Acid) Cert					11.5					26.3			49.9		39300								
Oreas 77b (4 Acid) Meas					1.5	1.78	1560	54	< 1	< 2	2.85	0.7	1450	278	3420	25.1	8	0.32	2.57	17	603		0.40
Oreas 77b (4 Acid) Cert					1.62	1.94	2050	118	0.470	3.44	3.06	1.20	1550	280	3430	29.9	4.61	0.361	2.59	18.8	640		0.434
Oreas 77b (4 Acid) Meas					1.3	1.73	1540	28	< 1	< 2	2.74	0.9	1400	277	3340	24.3	11	0.31	2.50	17	564		0.38
Oreas 77b (4 Acid) Cert					1.62	1.94	2050	118	0.470	3.44	3.06	1.20	1550	280	3430	29.9	4.61	0.361	2.59	18.8	640		0.434
Oreas 72b (4 Acid) Meas					0.4	4.75	137	297	< 1	< 2	2.77	0.4	129	656	230	6.60	9	1.10	9.69	31	957	4	0.97
Oreas 72b (4 Acid) Cert					0.230	4.79	146	330	1.02	0.680	2.79	0.310	131	771	222	6.84	11.7	1.14	9.59	33.3	1010	4.01	1.01
OREAS 238 (Fire Assay) Meas	2740																						
OREAS 238 (Fire Assay) Cert	3030																						
OREAS 263 (Aqua Regia) Meas																							
OREAS 263 (Aqua Regia) Cert																							
OREAS 130 (Aqua Regia) Meas																							
OREAS 130 (Aqua Regia) Cert																							
Oreas 623 (Aqua Regia) Meas																							
Oreas 623 (Aqua Regia) Cert																							
Oreas 623 (Aqua Regia) Meas																							
Oreas 623 (Aqua Regia) Cert																							

Analyte Symbol	Au	Pd	Pt	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	Mg	Li	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%
Lower Limit	5	1	1	2	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	0.01	0.01	1	1	1	0.01
Method Code	FA-AA	FA-MS	FA-MS	FA-MS	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Oreas E1336 (Fire Assay) Meas	537																						
Oreas E1336 (Fire Assay) Cert	510.000																						
OREAS 681 (4 Acid) Meas					< 0.3	7.38		419	1	< 2	5.54		45	1760	251	7.16	14	1.29	4.88	12	1200	< 1	1.43
OREAS 681 (4 Acid) Cert					0.118	7.91		442	1.41	0.0980	5.98		51.0	1640	264	7.47	17.6	1.35	5.19	13.0	1310	1.38	1.61
OREAS 681 (4 Acid) Meas					< 0.3	8.01		426	1	< 2	5.83		48	1560	281	7.44	16	1.35	5.35	13	1220	< 1	1.58
OREAS 681 (4 Acid) Cert					0.118	7.91		442	1.41	0.0980	5.98		51.0	1640	264	7.47	17.6	1.35	5.19	13.0	1310	1.38	1.61
OREAS 147 (4 Acid) Meas					4.85	21	> 1000	32	9	1.13		7	55	298	3.25	23	1.30	0.55	1980	409	5	0.89	
OREAS 147 (4 Acid) Cert					4.90	36.0	1940	31.2	12.5	1.09		6.90	57.0	298	3.23	22.6	1.60	0.535	2260	390	7.99	0.948	
OREAS 147 (4 Acid) Meas					5.11	25	> 1000	32	10	1.21		7	73	317	3.43	24	1.74	0.59	2150	445	6	0.96	
OREAS 147 (4 Acid) Cert					4.90	36.0	1940	31.2	12.5	1.09		6.90	57.0	298	3.23	22.6	1.60	0.535	2260	390	7.99	0.948	
Oreas 521 (4 Acid) Meas					1.1	4.57	236		< 1	7	3.55		366	34	5760	19.9	15	2.70	1.12	16	3040	119	0.90
Oreas 521 (4 Acid) Cert					0.89	4.77	336		0.9	6	3.86		386	31	6070	20.7	17	3.16	1.13	16	3210	138	0.98
Oreas 521 (4 Acid) Meas					1.1	4.42	243		< 1	5	3.70		354	36	5680	20.1	16	2.99	1.12	15	3100	135	0.88
Oreas 521 (4 Acid) Cert					0.89	4.77	336		0.9	6	3.86		386	31	6070	20.7	17	3.16	1.13	16	3210	138	0.98
Oreas 521 (4 Acid) Meas					1.1	4.55	313		< 1	2	3.79		360	53	5920	18.9	15	2.96	1.16	16	2970	144	0.91
Oreas 521 (4 Acid) Cert					0.89	4.77	336		0.9	6	3.86		386	31	6070	20.7	17	3.16	1.13	16	3210	138	0.98
OREAS 521 (Aqua Regia) Meas																							
OREAS 521 (Aqua Regia) Cert																							
OREAS 70b (4 Acid) Meas					< 0.3	3.86	138	197	< 1	< 2	2.97	0.4	74		52	5.31	7	0.58	13.5	32	1090	2	0.74
OREAS 70b (4 Acid) Cert					0.2	3.87	148	202	1	0.8	3.05	0.4	78		52	5.52	10	0.62	13.4	34	1150	3	0.77
Oreas 620 (Aqua Regia) Meas																							
Oreas 620 (Aqua Regia) Cert																							
OREAS 620 (4 Acid) Meas					40.1	6.67	48	92	2	< 2	1.68	161	14	20	1670	2.93	23	1.91	0.34	19	435	9	1.78
OREAS 620 (4 Acid) Cert					38.5	6.72	50	2500	2	2	1.60	163	12	22	1730	2.94	24	2.63	0.34	20	440	9	1.94
OREAS 620 (4 Acid) Meas					39.3	6.53	46	99	2	< 2	1.68	160	13	22	1720	2.98	23	1.61	0.34	20	422	9	1.70
OREAS 620 (4 Acid) Cert					38.5	6.72	50	2500	2	2	1.60	163	12	22	1730	2.94	24	2.63	0.34	20	440	9	1.94
OREAS 620 (4 Acid) Meas					41.6	7.12	54	74	2	< 2	1.75	166	14	22	1830	3.12	24	2.35	0.37	20	419	10	1.84
OREAS 620 (4 Acid) Cert					38.5	6.72	50	2500	2	2	1.60	163	12	22	1730	2.94	24	2.63	0.34	20	440	9.5	1.94
Oreas 610 (Aqua Regia) Meas																							

Analyte Symbol	Au	Pd	Pt	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	Mg	Li	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%
Lower Limit	5	1	1	2	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	0.01	0.01	1	1	1	0.01
Method Code	FA-AA	FA-MS	FA-MS	FA-MS	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Oreas 610 (Aqua Regia) Cert																							
1101574 Orig																							
1101574 Dup																							
1101584 Orig					< 0.3	4.00	< 3	106	< 1	< 2	7.10	0.4	74	76	87	16.6	16	0.39	6.41	6	1330	< 1	0.80
1101584 Dup					< 0.3	3.98	< 3	99	< 1	< 2	7.04	0.4	73	77	87	15.6	15	0.38	6.36	6	1280	< 1	0.80
1101585 Orig	< 5																						
1101585 Dup	< 5																						
1101592 Orig					< 0.3	5.95	3	14	< 1	< 2	8.41	< 0.3	35	24	65	10.5	17	0.02	2.13	5	1220	< 1	0.06
1101592 Dup					0.3	6.12	< 3	14	< 1	< 2	8.52	< 0.3	37	22	70	11.0	18	0.02	2.18	5	1290	< 1	0.07
1101597 Orig	< 5																						
1101597 Dup	< 5																						
1101602 Orig			5	6	6																		
1101602 Dup			5	6	5																		
1101606 Orig																							
1101606 Dup																							
1101615 Orig	9																						
1101615 Dup	6																						
1101617 Orig		< 1	< 1	6																			
1101617 Dup		< 1	< 1	6																			
1101618 Orig		< 1	< 1	4	< 0.3	8.54	4	405	< 1	< 2	4.88	< 0.3	28	15	28	5.51	16	1.13	3.07	16	971	< 1	2.47
1101618 Split PREP DUP		< 1	< 1	3	< 0.3	10.5	< 3	451	< 1	< 2	5.40	< 0.3	30	14	30	6.07	16	1.25	3.39	18	1040	< 1	2.71
1101627 Orig		11	11	5	< 0.3	7.18	14	205	< 1	< 2	6.84	0.5	46	122	156	10.9	19	0.47	3.79	11	1750	< 1	1.60
1101627 Split PREP DUP		12	12	5	< 0.3	7.01	9	204	< 1	< 2	6.83	0.6	46	119	157	10.7	18	0.47	3.73	11	1760	< 1	1.59
1101627 Orig					< 0.3	7.14	14	212	< 1	< 2	6.85	0.5	46	121	157	11.1	19	0.48	3.78	11	1780	< 1	1.61
1101627 Dup					< 0.3	7.21	13	198	< 1	< 2	6.83	0.5	46	123	156	10.6	19	0.47	3.80	11	1720	< 1	1.60
Method Blank	< 5																						
Method Blank					< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	2	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01
Method Blank					< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01
Method Blank					< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01
Method Blank					< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	2	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01
Method Blank					< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	8	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01
Method Blank					< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	3	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1	7	< 1	< 0.01
Method Blank					< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	6	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01
Method Blank					< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	6	2	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01
Method Blank					< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 0.01	< 0.01	< 1	8	< 1	< 0.01
Method Blank					< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	6	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1	6	< 1	< 0.01
Method Blank		< 1	< 1	3																			
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ag	Al	As	Au	B	Ba	Bi
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	0.1	0.01	0.5	0.5	20	1	0.1
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
OREAS 101b (4 Acid) Meas	10	0.120	22						0.41		410	89			139								
OREAS 101b (4 Acid) Cert	8.2		23						0.35		387	77			133								
OREAS 101b (4 Acid) Meas	8	0.099	19						0.34		370	76			125								
OREAS 101b (4 Acid) Cert	8.2		23						0.35		387	77			133								
OREAS 101b (4 Acid) Meas	9	0.111	22						0.35		410	80			137								
OREAS 101b (4 Acid) Cert	8.2		23						0.35		387	77			133								
OREAS 98 (4 Acid) Meas			312	< 5	15.4										1430								
OREAS 98 (4 Acid) Cert			345	20.1	15.5										1360								
OREAS 98 (4 Acid) Meas			305	7	14.4										1330								
OREAS 98 (4 Acid) Cert			345	20.1	15.5										1360								
OREAS 13b (4-Acid) Meas	2040				1.11										144								
OREAS 13b (4-Acid) Cert	2247.000				1.2										133								
OREAS 13b (4-Acid) Meas	2010				1.20										139								
OREAS 13b (4-Acid) Cert	2247.000				1.2										133								
OREAS 13b (4-Acid) Meas	2020				1.13										138								
OREAS 13b (4-Acid) Cert	2247.000				1.2										133								
OREAS 904 (4 Acid) Meas	43	0.100	14	< 5	0.06	12	31			< 5	< 10	82	< 5	32	28	74							
OREAS 904 (4 Acid) Cert	40.1	0.0980	10.6	1.48	0.0630	11.2	27.2			0.520	8.43	76.0	2.12	31.5	26.3	171							
OREAS 904 (4 Acid) Meas	41	0.096	12	< 5	0.06	12	30			< 5	< 10	86	< 5	32	27	48							
OREAS 904 (4 Acid) Cert	40.1	0.0980	10.6	1.48	0.0630	11.2	27.2			0.520	8.43	76.0	2.12	31.5	26.3	171							
OREAS 904 (4 Acid) Meas	46	0.105	12	< 5	0.06	12	31			< 5	< 10	87	< 5	34	28	181							
OREAS 904 (4 Acid) Cert	40.1	0.0980	10.6	1.48	0.0630	11.2	27.2			0.520	8.43	76.0	2.12	31.5	26.3	171							
OREAS 45d (Aqua Regia) Meas																		5.35	4.9	14.8		79	0.3
OREAS 45d (Aqua Regia) Cert																		4.86	6.50	21		80	0.30
OREAS 45d (4-Acid) Meas	229	0.035	15	< 5	0.04	51	34		0.30	< 5	< 10	135	< 5	10	46	92							
OREAS 45d (4-Acid) Cert	231.0	0.042	21.8	0.82	0.049	49.30	31.30		0.773	0.27	2.63	235.0	1.62	9.53	45.7	141							
OREAS 45d (4-Acid) Meas	237	0.035	20	< 5	0.04	54	34		0.15	< 5	< 10	99	< 5	12	48	47							
OREAS 45d (4-Acid) Cert	231.0	0.042	21.8	0.82	0.049	49.30	31.30		0.773	0.27	2.63	235.0	1.62	9.53	45.7	141							
OREAS 45d (4-Acid) Meas	231	0.034	21	< 5	0.04	53	33		0.23	< 5	< 10	113	< 5	12	44	68							

Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ag	Al	As	Au	B	Ba	Bi
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	0.1	0.01	0.5	0.5	20	1	0.1
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
OREAS 45d (4-Acid) Cert	231.0	0.042	21.8	0.82	0.049	49.30	31.30		0.773	0.27	2.63	235.0	1.62	9.53	45.7	141							
OREAS 922 (AQUA REGIA) Meas																	0.9	2.44	6.3			72	10.5
OREAS 922 (AQUA REGIA) Cert																	0.851	2.72	6.12			70	10.3
OREAS 907 (Aqua Regia) Meas																	1.3	1.10	36.2	92.2		216	22.9
OREAS 907 (Aqua Regia) Cert																	1.30	0.945	37.0	101		225	22.3
CDN-PGMS-27 Meas																							
CDN-PGMS-27 Cert																							
OREAS 96 (4 Acid) Meas			86	< 5	4.04											442							
OREAS 96 (4 Acid) Cert			101	5.09	4.19											457							
OREAS 96 (4 Acid) Meas			84	< 5	4.10											444							
OREAS 96 (4 Acid) Cert			101	5.09	4.19											457							
Oreas 77b (4 Acid) Meas	> 10000		77	24		< 4	31	2	0.05	6	< 10	33	8	9	191	38							
Oreas 77b (4 Acid) Cert	113000		61.0	9.100		3.51	34.4	1.35	0.0640	1.37	1.71	33.6	3.07	6.55	205	37.9							
Oreas 77b (4 Acid) Meas	> 10000		63	22		< 4	29	3	0.05	5	< 10	32	7	9	187	37							
Oreas 77b (4 Acid) Cert	113000		61.0	9.100		3.51	34.4	1.35	0.0640	1.37	1.71	33.6	3.07	6.55	205	37.9							
Oreas 72b (4 Acid) Meas	6390	0.025	14	< 5	1.40	12	61	7	0.19	< 5	< 10	71	5	13	94	79							
Oreas 72b (4 Acid) Cert	6860	0.0260	14.9	0.870	1.49	12.8	63.8	0.0920	0.216	0.350	4.68	73.6	4.00	12.8	99.0	88.0							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 263 (Aqua Regia) Meas																	0.3	1.74	29.6			176	0.6
OREAS 263 (Aqua Regia) Cert																	0.285	1.29	30.8			175	0.570
OREAS 130 (Aqua Regia) Meas																	6.0	1.16	203				3.1
OREAS 130 (Aqua Regia) Cert																	6.27	1.10	205				3.05
Oreas 623 (Aqua Regia) Meas																	20.2	1.69	79.7	799			18.1
Oreas 623 (Aqua Regia) Cert																	20.4	1.80	76.0	797			16.9
Oreas 623 (Aqua Regia) Meas																	20.6	1.68	80.0	799			18.2
Oreas 623 (Aqua Regia) Cert																	20.4	1.80	76.0	797			16.9



Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ag	Al	As	Au	B	Ba	Bi
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	0.1	0.01	0.5	0.5	20	1	0.1
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
OREAS 681 (4 Acid) Meas	435	0.124	5	< 5	0.10	26	433		0.43		< 10	216	< 5	16	77	53							
OREAS 681 (4 Acid) Cert	503	0.141	10.2	0.240	0.109	27.7	478		0.588		1.44	253	1.09	17.5	88.0	58.0							
OREAS 681 (4 Acid) Meas	455	0.130	5	< 5	0.10	27	446		0.52		< 10	239	< 5	17	80	59							
OREAS 681 (4 Acid) Cert	503	0.141	10.2	0.240	0.109	27.7	478		0.588		1.44	253	1.09	17.5	88.0	58.0							
OREAS 147 (4 Acid) Meas	22	0.090	25	10	0.02	11	311		0.29	9	< 10	55		26	148	35							
OREAS 147 (4 Acid) Cert	21.2	0.155	27.8	10.6	0.0300	10.7	299		0.470	10.8	15.8	60.0		26.3	138	105							
OREAS 147 (4 Acid) Meas	24	0.126	28	17	0.03	11	330		0.30	8	< 10	53		28	153	77							
OREAS 147 (4 Acid) Cert	21.2	0.155	27.8	10.6	0.0300	10.7	299		0.470	10.8	15.8	60.0		26.3	138	105							
Oreas 521 (4 Acid) Meas	73	0.075	8	< 5	1.69	13	96	< 2	0.34	< 5	30	202	22	17	26	133							
Oreas 521 (4 Acid) Cert	73	0.081	9	6	1.80	14	160	0.8	0.39	0.3	30	209	92	20	24	123							
Oreas 521 (4 Acid) Meas	68	0.077	15	< 5	1.74	14	93	17	0.31	< 5	30	200	35	18	25	118							
Oreas 521 (4 Acid) Cert	73	0.081	9.3	6	1.80	14	160	0.76	0.39	0.3	30	209	92	20	24	123							
Oreas 521 (4 Acid) Meas	70	0.077	5	< 5	1.64	13	78	11	0.39	< 5	30	206	87	18	24	113							
Oreas 521 (4 Acid) Cert	73	0.081	9	6	1.80	14	160	0.76	0.39	0.3	30	209	92	20	24	123							
OREAS 521 (Aqua Regia) Meas																	0.9	1.33	345	379			6.3
OREAS 521 (Aqua Regia) Cert																	0.8	1.44	333	365			5.8
OREAS 70b (4 Acid) Meas	1980	0.021	11	< 5	0.29	12	69		0.16	< 5	< 10	64	6	9	102	60							
OREAS 70b (4 Acid) Cert	2180	0.022	14	0.6	0.31	12	74		0.18	0.3	2	67	5	10	112	66							
Oreas 620 (Aqua Regia) Meas																	38.0	1.16	48.7	678		5	2.0
Oreas 620 (Aqua Regia) Cert																	38.4	1.12	47.2	666		400	1.9
OREAS 620 (4 Acid) Meas	14	0.035	> 5000	11	2.60	5	117		0.15	< 5	< 10	21	< 5	12	> 10000	211							
OREAS 620 (4 Acid) Cert	15	0.035	7740	76	2.47	5	131		0.14	2	4	21	2	12	31500	202							
OREAS 620 (4 Acid) Meas	15	0.035	> 5000	11	2.49	5	120		0.15	< 5	< 10	23	< 5	13	> 10000	198							
OREAS 620 (4 Acid) Cert	15	0.035	7740	76	2.47	5	131		0.14	2	4	21	2	12	31500	202							
OREAS 620 (4 Acid) Meas	15	0.037	> 5000	10	2.59	6	121		0.16	< 5	< 10	24	< 5	14	> 10000	212							
OREAS 620 (4 Acid) Cert	15	0.035	7740	80	2.47	5	131		0.14	2	4	21	2	12	31500	202							
Oreas 610 (Aqua Regia) Meas																	45.1	1.00	2680				208

Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ag	Al	As	Au	B	Ba	Bi
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	0.1	0.01	0.5	0.5	20	1	0.1
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
Oreas 610 (Aqua Regia) Cert																	48.4	0.85	2810				220
1101574 Orig																	0.3	0.27	0.8	6.7	< 20	32	2.0
1101574 Dup																	0.3	0.23	1.1	5.3	< 20	31	1.9
1101584 Orig	200	0.019	< 3	< 5	0.01	52	199	12	0.21	< 5	< 10	351	< 5	17	123	33							
1101584 Dup	201	0.018	< 3	< 5	0.01	50	188	< 2	0.22	< 5	< 10	333	< 5	17	124	31							
1101585 Orig																							
1101585 Dup																							
1101592 Orig	20	0.068	< 3	< 5	1.70	38	616	4	0.26	< 5	< 10	168	< 5	32	58	71							
1101592 Dup	21	0.074	4	< 5	1.74	39	616	< 2	0.31	< 5	< 10	185	< 5	32	62	73							
1101597 Orig																							
1101597 Dup																							
1101602 Orig																							
1101602 Dup																							
1101606 Orig																	< 0.1	3.52	0.8	1.4	< 20	21	< 0.1
1101606 Dup																	< 0.1	3.49	1.4	< 0.5	< 20	18	< 0.1
1101615 Orig																							
1101615 Dup																							
1101617 Orig																							
1101617 Dup																							
1101618 Orig	53	0.025	< 3	< 5	0.08	24	345	7	0.21	< 5	< 10	98	< 5	10	68	26							
1101618 Split PREP DUP	58	0.032	< 3	< 5	0.11	30	389	3	0.28	< 5	< 10	122	< 5	11	76	34							
1101627 Orig	75	0.079	4	< 5	0.06	41	141	6	0.45	< 5	< 10	196	< 5	30	111	93							
1101627 Split PREP DUP	75	0.079	< 3	< 5	0.07	40	140	< 2	0.46	< 5	< 10	190	< 5	30	108	93							
1101627 Orig	75	0.078	3	< 5	0.07	42	145	6	0.33	< 5	< 10	175	6	30	112	91							
1101627 Dup	74	0.080	5	< 5	0.06	41	136	6	0.57	< 5	< 10	217	< 5	30	110	95							
Method Blank																							
Method Blank	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5							
Method Blank	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5							
Method Blank	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5							
Method Blank	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5							
Method Blank	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5							
Method Blank	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5							
Method Blank	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5							
Method Blank	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5							
Method Blank	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5							
Method Blank	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5							
Method Blank	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5							
Method Blank	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5							
Method Blank	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5							
Method Blank																	< 0.1	< 0.01	0.6	1.7	< 20	2	< 0.1
Method Blank																	< 0.1	< 0.01	0.8	1.8	< 20	2	< 0.1
Method Blank																	< 0.1	< 0.01	0.8	1.5	< 20	1	< 0.1
Method Blank																	< 0.1	< 0.01	< 0.5	1.9	< 20	2	< 0.1

Analyte Symbol	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Se	Sr	Te
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	1	0.2	0.01	1	0.01	0.01	1	0.01	1	0.1	0.001	0.1	0.001	0.1	1	0.1	0.1	0.5	1	0.2
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
OREAS 101b (4 Acid) Meas																							
OREAS 101b (4 Acid) Cert																							
OREAS 101b (4 Acid) Meas																							
OREAS 101b (4 Acid) Cert																							
OREAS 101b (4 Acid) Meas																							
OREAS 101b (4 Acid) Cert																							
OREAS 98 (4 Acid) Meas																							
OREAS 98 (4 Acid) Cert																							
OREAS 98 (4 Acid) Meas																							
OREAS 98 (4 Acid) Cert																							
OREAS 13b (4-Acid) Meas																							
OREAS 13b (4-Acid) Cert																							
OREAS 13b (4-Acid) Meas																							
OREAS 13b (4-Acid) Cert																							
OREAS 13b (4-Acid) Meas																							
OREAS 13b (4-Acid) Cert																							
OREAS 904 (4 Acid) Meas																							
OREAS 904 (4 Acid) Cert																							
OREAS 904 (4 Acid) Meas																							
OREAS 904 (4 Acid) Cert																							
OREAS 904 (4 Acid) Meas																							
OREAS 904 (4 Acid) Cert																							
OREAS 45d (Aqua Regia) Meas	0.11		28.2	438	355	14.9	17		0.12	10	0.16	447		0.034	208	0.036	17.1	< 1		42.2		14	
OREAS 45d (Aqua Regia) Cert	0.089		26.2	467	345	13.7	17.9		0.097	10.0	0.144	400		0.031	176	0.035	17.0	0.045		41.50		11.0	
OREAS 45d (4-Acid) Meas																							
OREAS 45d (4-Acid) Cert																							
OREAS 45d (4-Acid) Meas																							
OREAS 45d (4-Acid) Cert																							
OREAS 45d (4-Acid) Meas																							

Analyte Symbol	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Se	Sr	Te
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	1	0.2	0.01	1	0.01	0.01	1	0.01	1	0.1	0.001	0.1	0.001	0.1	1	0.1	0.1	0.5	1	0.2
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
OREAS 45d (4-Acid) Cert																							
OREAS 922 (AQUA REGIA) Meas	0.37	0.3	18.1	42	2050	5.00	7		0.37	35	1.22	730	0.7	0.021	32.9	0.060	60.9	< 1	0.6	3.2	2.9	15	
OREAS 922 (AQUA REGIA) Cert	0.324	0.28	19.4	40.7	2176	5.05	7.62		0.376	32.5	1.33	730	0.69	0.021	34.3	0.063	60	0.386	0.57	3.15	3.44	15.0	
OREAS 907 (Aqua Regia) Meas	0.26	0.5	43.6	8	6350	8.13	14		0.30	35	0.22	315	5.2	0.083	4.7	0.020	32.6	< 1	2.5	2.0	9.3	12	0.2
OREAS 907 (Aqua Regia) Cert	0.280	0.540	43.7	8.59	6370	8.18	14.7		0.286	36.1	0.221	330	5.64	0.0860	4.74	0.0240	34.1	0.0660	2.28	2.16	9.05	11.7	0.230
CDN-PGMS-27 Meas																							
CDN-PGMS-27 Cert																							
OREAS 96 (4 Acid) Meas																							
OREAS 96 (4 Acid) Cert																							
OREAS 96 (4 Acid) Meas																							
OREAS 96 (4 Acid) Cert																							
Oreas 77b (4 Acid) Meas																							
Oreas 77b (4 Acid) Cert																							
Oreas 77b (4 Acid) Meas																							
Oreas 77b (4 Acid) Cert																							
Oreas 72b (4 Acid) Meas																							
Oreas 72b (4 Acid) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 263 (Aqua Regia) Meas	0.98	0.3	31.0	55	86.4	3.63	3	0.18	0.35		0.57	481	0.6	0.076	71.2	0.042	34.0	< 1	7.4	3.3		16	< 0.2
OREAS 263 (Aqua Regia) Cert	1.03	0.270	31.0	48.0	87.0	3.68	4.92	0.170	0.288		0.593	490	0.570	0.0790	72.0	0.0410	34.0	0.126	7.37	3.52		16.9	0.210
OREAS 130 (Aqua Regia) Meas	1.74	28.6	26.9	26	215	7.60	5	0.76	0.51	22	0.86	1750	7.7		36.5	0.095	1410	7	5.0	3.6		19	0.2
OREAS 130 (Aqua Regia) Cert	1.81	28.8	27.1	23.2	226	7.27	4.78	0.670	0.500	26.4	0.892	1630	8.25		35.2	0.0860	1300	6.02	4.69	3.42		23.2	0.170
Oreas 623 (Aqua Regia) Meas	1.04	57.2	231	21	> 10000	13.0	14	0.73	0.15	17	1.05	571	9.0	0.071	16.6	0.041	2320	9	21.4	4.8	21.0	13	0.5
Oreas 623 (Aqua Regia) Cert	1.09	52.0	216	19.4	17200	13.0	11.9	0.830	0.175	17.9	1.11	570	8.38	0.0680	15.6	0.0400	2520	8.75	20.2	4.63	18.6	14.2	0.570
Oreas 623 (Aqua Regia) Meas	1.04	56.3	225	20	> 10000	13.0	14	0.73	0.16	17	1.05	566	9.2	0.073	15.7	0.042	2370	8	20.2	4.4	20.1	13	0.6
Oreas 623 (Aqua Regia) Cert	1.09	52.0	216	19.4	17200	13.0	11.9	0.830	0.175	17.9	1.11	570	8.38	0.0680	15.6	0.0400	2520	8.75	20.2	4.63	18.6	14.2	0.570

Analyte Symbol	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Se	Sr	Te
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	1	0.2	0.01	1	0.01	0.01	1	0.01	1	0.1	0.001	0.1	0.001	0.1	1	0.1	0.1	0.5	1	0.2
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
Oreas 521 (4 Acid) Meas																							
Oreas 521 (4 Acid) Cert																							
Oreas 521 (4 Acid) Meas																							
Oreas 521 (4 Acid) Cert																							
Oreas 521 (4 Acid) Meas																							
Oreas 521 (4 Acid) Cert																							
OREAS 521 (Aqua Regia) Meas	3.84		398	35	5960	21.2	13		0.43	117	1.09	3230	142	0.045	71.9	0.084	8.9	2	3.9	9.5	2.3	31	0.7
OREAS 521 (Aqua Regia) Cert	3.66		374	33	5990	20.0	14		0.53	147	1.10	3000	133	0.045	68.0	0.081	9.0	2	3.6	10	2.4	54	0.7
OREAS 70b (4 Acid) Meas																							
OREAS 70b (4 Acid) Cert																							
Oreas 620 (Aqua Regia) Meas	1.32	157.5	13.3	18	1790	2.87	7	2.24	0.28	25	0.27	458	8.9	0.136	14.5	0.032	> 5000	3	70.3			18	
Oreas 620 (Aqua Regia) Cert	1.29	161.0	12.2	17	1750	2.58	6	2.14	0.31	25	0.27	414	9.0	0.117	14.4	0.031	7740	2	62.0			20	
OREAS 620 (4 Acid) Meas																							
OREAS 620 (4 Acid) Cert																							
OREAS 620 (4 Acid) Meas																							
OREAS 620 (4 Acid) Cert																							
OREAS 620 (4 Acid) Meas																							
OREAS 620 (4 Acid) Cert																							
Oreas 610 (Aqua Regia) Meas	0.10	12.1	6.9	31	8990	2.03	7	0.70	0.24	6	0.09	60	3.9	0.052	22.1	0.024	458	3	273	1.0	27.1	35	38.4

Analyte Symbol	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Se	Sr	Te
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	1	0.2	0.01	1	0.01	0.01	1	0.01	1	0.1	0.001	0.1	0.001	0.1	1	0.1	0.1	0.5	1	0.2
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
Oreas 610 (Aqua Regia) Cert	0.12	12.3	7.7	33	9720	2.27	6	0.80	0.21	7	0.1	66	4.5	0.049	24.3	0.025	512	3	265	0.8	27.7	39	41.7
1101574 Orig	0.16	< 0.1	8.4	6	24.6	1.84	3	0.06	0.06	9	0.10	55	0.5	0.124	4.5	0.029	10.0	1	< 0.1	1.4	1.9	18	< 0.2
1101574 Dup	0.13	< 0.1	7.3	5	21.4	1.57	2	0.04	0.05	8	0.10	47	0.5	0.111	3.9	0.026	8.8	1	< 0.1	1.1	1.2	16	< 0.2
1101584 Orig																							
1101584 Dup																							
1101585 Orig																							
1101585 Dup																							
1101592 Orig																							
1101592 Dup																							
1101597 Orig																							
1101597 Dup																							
1101602 Orig																							
1101602 Dup																							
1101606 Orig	3.66	< 0.1	29.9	88	83.7	4.33	8	0.09	0.06	3	1.84	620	0.4	0.477	94.1	0.077	0.8	< 1	< 0.1	12.2	1.0	100	< 0.2
1101606 Dup	3.23	< 0.1	27.0	85	77.5	3.79	7	0.05	0.05	2	1.70	586	0.4	0.452	88.9	0.069	0.8	< 1	< 0.1	11.2	0.9	96	< 0.2
1101615 Orig																							
1101615 Dup																							
1101617 Orig																							
1101617 Dup																							
1101618 Orig																							
1101618 Split PREP DUP																							
1101627 Orig																							
1101627 Split PREP DUP																							
1101627 Orig																							
1101627 Dup																							
Method Blank																							
Method Blank																							
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Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.01	< 0.1	< 0.1	< 1	< 0.2	< 0.01	< 1	0.05	< 0.01	< 1	< 0.01	< 1	< 0.1	0.005	< 0.1	< 0.001	0.1	< 1	< 0.1	< 0.1	0.6	< 1	< 0.2
Method Blank	< 0.01	< 0.1	< 0.1	< 1	< 0.2	< 0.01	< 1	0.11	< 0.01	< 1	< 0.01	< 1	< 0.1	0.006	0.1	< 0.001	0.2	< 1	< 0.1	< 0.1	0.7	< 1	< 0.2
Method Blank	< 0.01	< 0.1	< 0.1	< 1	< 0.2	< 0.01	< 1	0.06	< 0.01	< 1	< 0.01	< 1	< 0.1	0.005	< 0.1	< 0.001	< 0.1	< 1	< 0.1	< 0.1	< 0.5	< 1	< 0.2
Method Blank	< 0.01	< 0.1	< 0.1	< 1	< 0.2	< 0.01	< 1	0.05	< 0.01	< 1	< 0.01	< 1	< 0.1	0.006	< 0.1	< 0.001	< 0.1	< 1	< 0.1	< 0.1	0.5	< 1	< 0.2

Analyte Symbol	Th	Ti	Tl	V	W	Zn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.001	0.1	2	0.1	1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
OREAS 101b (4 Acid) Meas						
OREAS 101b (4 Acid) Cert						
OREAS 101b (4 Acid) Meas						
OREAS 101b (4 Acid) Cert						
OREAS 101b (4 Acid) Meas						
OREAS 101b (4 Acid) Cert						
OREAS 98 (4 Acid) Meas						
OREAS 98 (4 Acid) Cert						
OREAS 98 (4 Acid) Meas						
OREAS 98 (4 Acid) Cert						
OREAS 13b (4-Acid) Meas						
OREAS 13b (4-Acid) Cert						
OREAS 13b (4-Acid) Meas						
OREAS 13b (4-Acid) Cert						
OREAS 13b (4-Acid) Meas						
OREAS 13b (4-Acid) Cert						
OREAS 904 (4 Acid) Meas						
OREAS 904 (4 Acid) Cert						
OREAS 904 (4 Acid) Meas						
OREAS 904 (4 Acid) Cert						
OREAS 904 (4 Acid) Meas						
OREAS 904 (4 Acid) Cert						
OREAS 45d (Aqua Regia) Meas	11.3			185		38
OREAS 45d (Aqua Regia) Cert	11.3			201		30.6
OREAS 45d (4-Acid) Meas						
OREAS 45d (4-Acid) Cert						
OREAS 45d (4-Acid) Meas						
OREAS 45d (4-Acid) Cert						
OREAS 45d (4-Acid) Meas						



Analyte Symbol	Th	Ti	Tl	V	W	Zn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.001	0.1	2	0.1	1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
OREAS 45d (4-Acid) Cert						
OREAS 922 (AQUA REGIA) Meas	14.8		0.2	27	1.1	248
OREAS 922 (AQUA REGIA) Cert	14.5		0.14	29.4	1.12	256
OREAS 907 (Aqua Regia) Meas	7.9	0.017	0.1	5	0.9	145
OREAS 907 (Aqua Regia) Cert	8.04	0.0170	0.120	5.12	0.980	139
CDN-PGMS-27 Meas						
CDN-PGMS-27 Cert						
OREAS 96 (4 Acid) Meas						
OREAS 96 (4 Acid) Cert						
OREAS 96 (4 Acid) Meas						
OREAS 96 (4 Acid) Cert						
Oreas 77b (4 Acid) Meas						
Oreas 77b (4 Acid) Cert						
Oreas 77b (4 Acid) Meas						
Oreas 77b (4 Acid) Cert						
Oreas 72b (4 Acid) Meas						
Oreas 72b (4 Acid) Cert						
OREAS 238 (Fire Assay) Meas						
OREAS 238 (Fire Assay) Cert						
OREAS 263 (Aqua Regia) Meas	10.7		0.6	25		131
OREAS 263 (Aqua Regia) Cert	10.6		0.530	22.8		127
OREAS 130 (Aqua Regia) Meas	10.2	0.026	5.6	35	1.6	> 5000
OREAS 130 (Aqua Regia) Cert	10.3	0.0270	5.92	33.1	1.40	16900
Oreas 623 (Aqua Regia) Meas	4.4		0.3	15	2.4	> 5000
Oreas 623 (Aqua Regia) Cert	4.72		0.260	15.8	2.62	10100
Oreas 623 (Aqua Regia) Meas	4.5		0.3	15	2.5	> 5000
Oreas 623 (Aqua Regia) Cert	4.72		0.260	15.8	2.62	10100

Analyte Symbol	Th	Ti	Tl	V	W	Zn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.001	0.1	2	0.1	1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
Oreas E1336 (Fire Assay) Meas						
Oreas E1336 (Fire Assay) Cert						
OREAS 681 (4 Acid) Meas						
OREAS 681 (4 Acid) Cert						
OREAS 681 (4 Acid) Meas						
OREAS 681 (4 Acid) Cert						
OREAS 147 (4 Acid) Meas						
OREAS 147 (4 Acid) Cert						
OREAS 147 (4 Acid) Meas						
OREAS 147 (4 Acid) Cert						
Oreas 521 (4 Acid) Meas						
Oreas 521 (4 Acid) Cert						
Oreas 521 (4 Acid) Meas						
Oreas 521 (4 Acid) Cert						
Oreas 521 (4 Acid) Meas						
Oreas 521 (4 Acid) Cert						
OREAS 521 (Aqua Regia) Meas	6.4	0.141	0.1	201	70.9	27
OREAS 521 (Aqua Regia) Cert	7.8	0.141	0.1	200	71.0	24
OREAS 70b (4 Acid) Meas						
OREAS 70b (4 Acid) Cert						
Oreas 620 (Aqua Regia) Meas	7.5		0.8	9	0.8	> 5000
Oreas 620 (Aqua Regia) Cert	7.5		0.5	7	0.8	31200
OREAS 620 (4 Acid) Meas						
OREAS 620 (4 Acid) Cert						
OREAS 620 (4 Acid) Meas						
OREAS 620 (4 Acid) Cert						
OREAS 620 (4 Acid) Meas						
OREAS 620 (4 Acid) Cert						
Oreas 610 (Aqua Regia) Meas	2.5		1.4	11	3.5	1700

Analyte Symbol	Th	Ti	Tl	V	W	Zn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.001	0.1	2	0.1	1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
Oreas 610 (Aqua Regia) Cert	3.1		1.5	12	3.6	1760
1101574 Orig	3.7	0.070	< 0.1	10	0.1	13
1101574 Dup	3.3	0.059	< 0.1	8	0.1	11
1101584 Orig						
1101584 Dup						
1101585 Orig						
1101585 Dup						
1101592 Orig						
1101592 Dup						
1101597 Orig						
1101597 Dup						
1101602 Orig						
1101602 Dup						
1101606 Orig	0.1	0.200	< 0.1	98	< 0.1	51
1101606 Dup	0.1	0.177	< 0.1	92	0.2	50
1101615 Orig						
1101615 Dup						
1101617 Orig						
1101617 Dup						
1101618 Orig						
1101618 Split PREP DUP						
1101627 Orig						
1101627 Split PREP DUP						
1101627 Orig						
1101627 Dup						
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank	< 0.1	< 0.001	< 0.1	< 2	< 0.1	< 1
Method Blank	< 0.1	< 0.001	< 0.1	< 2	< 0.1	< 1
Method Blank	< 0.1	< 0.001	< 0.1	< 2	< 0.1	< 1
Method Blank	< 0.1	< 0.001	< 0.1	< 2	< 0.1	< 1