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FIRST CLASS METALS CANADA INC.



Work Report High-Resolution Heliborne Magnetic Survey

North Helmo Property

BLACK RIVER AREA, OBA LAKE AREA.

WHITE LAKE-NORTH AREA AND WABIKOBA LAKE AREA

HEMLO AREA ONTARIO, CANADA NTS 42C/13

Bruce MacLachlan P. Geo (Limited)

Cathy Salo, P. Geo

October 25, 2022

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1 -SUMMARY-

Prospectair Geosurveys conducted a heliborne high-resolution magnetic (MAG) survey for the mineral exploration company First Class Metals Ltd. on its North Hemlo Property located in the northeastern extension of the Schreiber-Hemlo Greenstone Belt area, Thunder Bay Mining Division, Province of Ontario (Figure 1). The survey was flown from May 9 to 15, 2022.

One survey block was flown for a total of 2,494 l-km. A total of 15 production flights were performed using Prospectair's Eurocopter EC120B, registered C-GTAZ. The helicopter and survey crew operated out of the Manitouwadge Airport located 25 km to the northwest of the block.

The North Hemlo block was flown with traverse lines at 25 and 50 m spacings, and control lines spaced every 500 m. The survey lines were oriented N160 and control lines were flown at an azimuth of N070. The average height above ground of the helicopter was 43 m and the magnetic sensor was at 24 m. The average survey flying speed was 33.7 m/s.

1.1. -INTRODUCTION-

First Class Metals Canada Inc. acquired the North Hemlo area Property from February to September of 2021. The main target mineral is gold based on previous discoveries in the area, which bear some similarities to the nearby world-class Hemlo gold deposit.



Figure 1: Ontario Location map

1.2. PROPERTY DESCRIPTION, PERMIT, LOCATION AND ACCESS

First Class Metals Canada Inc.'s North Helmo property is located northeast of Lake Superior in northeastern Ontario (See Figure 1). The North Hemlo property is situated approximately 35 kilometres south of the town of Manitouwadge and approximately 11 kilometres northeast of the Hemlo Gold Mine (see Figure 2).

The North Helmo property is comprised of 423 Single Cell Mining Claims totaling 8953 hectares. See figure 3 and Map 1.

1.3. CLIMATE, RESOURCES, LOCAL INFRASTRUCTURE AND PHYSIOGRAPHY

The North Hemlo property is located within the Canadian Shield, which is a major physiographic division of Canada. The properties are situated in areas of swamps, small lakes, and moderate to steep hills, with scattered to locally moderate outcrops. Elevation across the project area ranges from approximately 330 to 500 m.

The North Helmo property is located approximately 35km's south of the town of Manitouwadge, Ontario and immediately east of Highway 614, see Figure 2. Access to the property is best achieved by turning north of Highway 17 for approximately 20 km then east off Highway 614 on to Twist Lake Road for 9 kilometers. Twist Lake Road dissects the property from south to north.

Access to the central portion of the property and immediately east of Highway 614 is best achieved by travelling along a series of new logging road which are located in the northern portion of the property, see Figure 3.

The climate in the area is typical of Northern Ontario, with cold winters and warm summers. Average January minimum temperatures range from -18°C to -32°C, and average July temperatures are between 24°C and 32°C. Exploration work can be carried out (subject to snow and freezing) for most of the year. Certain mapping, mechanized stripping, and soil sampling activities are best performed in snow-free conditions, whereas drilling can occur any time of the year.

2 PERSONNEL

The 2022 was carried out by Prospectair Geosurveys in May and the report was prepared by Joël Dubé, P.Eng in June 2022.

Cathy Salo of Salo Geoscience Services provided drafting, GIS support and compiling report in October of 2022.

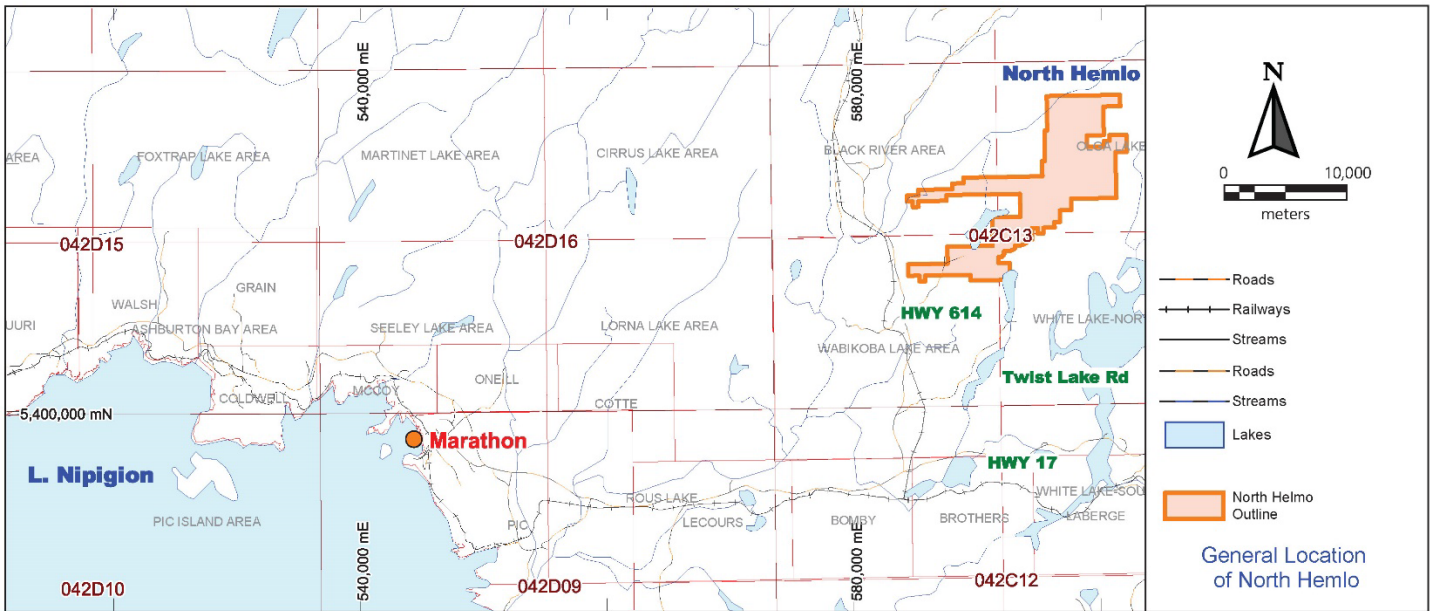


Figure 2: North Hemlo regional location map

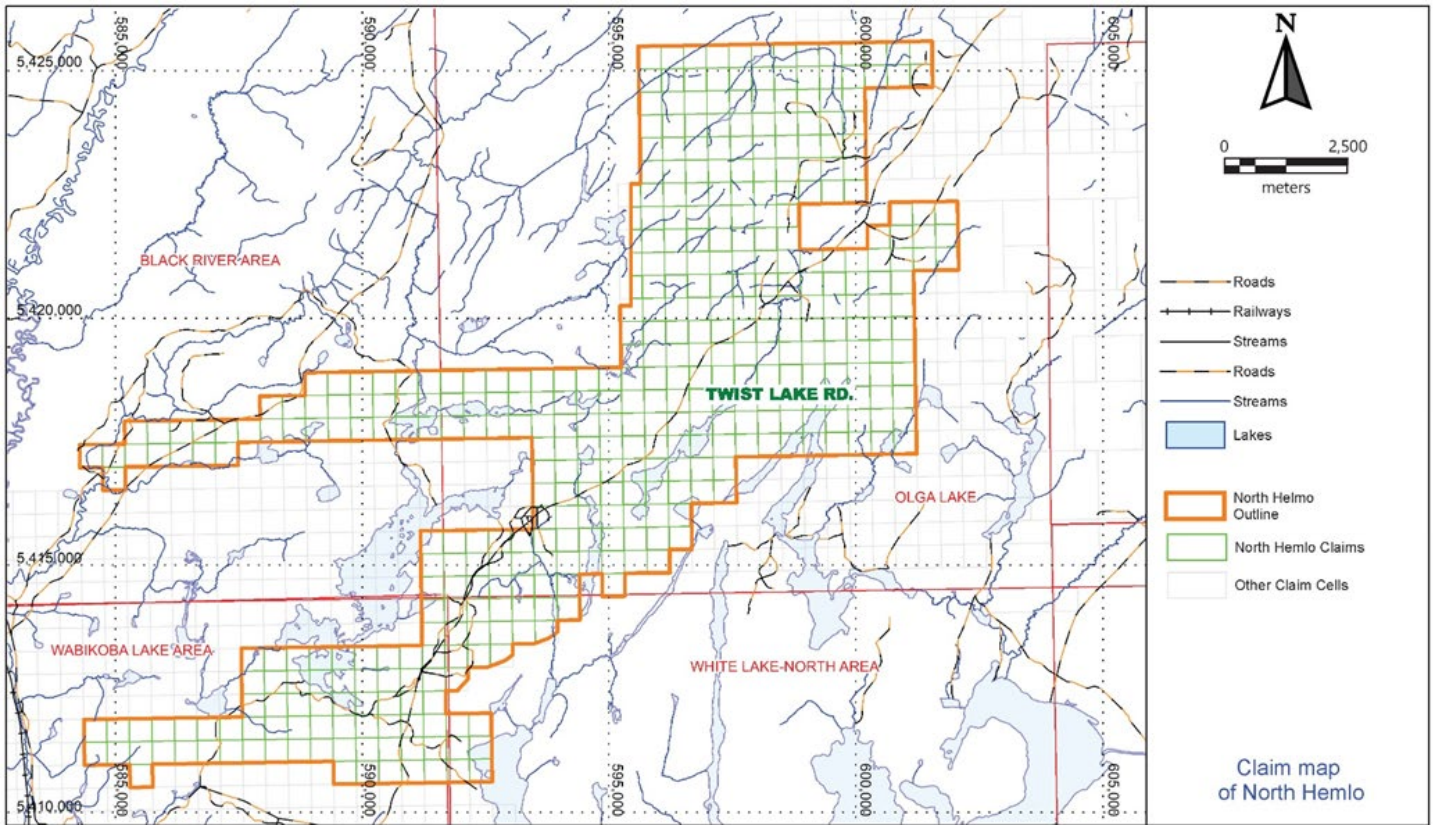


Figure 3: North Hemlo general claim map.

3 -GEOLOGY-

3.1 REGIONAL GEOLOGY

The property is located in the northeastern portion of the Schreiber-Hemlo Greenstone belt, or between the Schreiber-Hemlo and Dayohessarah greenstone belts and within the Wawa Subprovince of the Superior Province. The supracrustal rocks of the Schreiber-Hemlo greenstone belt are metamorphosed volcano-sedimentary rocks of mafic, intermediate and felsic composition ranging in age from ~2720 Ma to ~2688 Ma (Corfu & Muir, 1989; Lin, 2001). Metamorphic grades increase from upper greenschist facies in the western part of the belt to middle amphibolite facies in the eastern part of the belt. Based on titanite age dating, the regional amphibolite-facies metamorphism occurred between ~2678 and ~2676 Ma (Corfu & Muir, 1989b; Lin, 2001).

The greenstone belt is intruded by granodioritic-tonalitic plutons and related dykes. Major plutons include the Pukaskwa Intrusive Complex, the Heron Bay Pluton, the Cedar Lake Pluton and the Gowan Lake Pluton. A marginal gneissic phase of the Pukaskwa complex yielded a U-Pb zircon age of ~2719 Ma. An internal phase of the complex, the Heron Bay Pluton and the Cedar Lake Pluton yielded U-Pb zircon ages of ~2688 Ma. The Gowan Lake pluton yielded a U-Pb zircon age of ~2678 Ma (Corfu & Muir, 1989a; Lin, 2001).

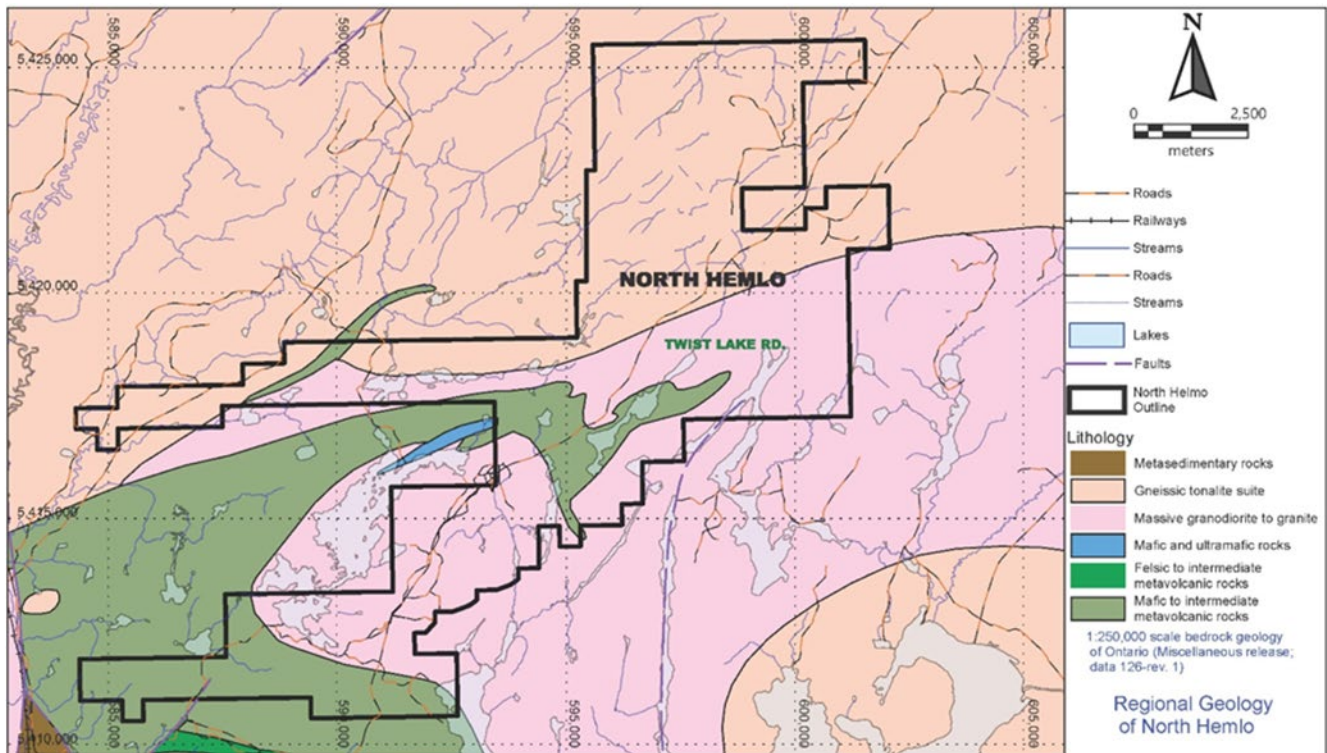


Figure 4: North Hemlo general bedrock geology map. (MRD 126 REV1.)

4 -EXPLORATION HISTORY-

Table 1: Exploration history

Year	Company	Description
1931	J.E. Thompson (1932) of the Ontario Department, geological mapping	General mapping
1957	Canadian Pacific Railway Co	Geology
1962	Prospector named C. von Klein	Prospecting and assaying
1964	Caravelle Mines Ltd, Trade Horn Ltd	Compilations
1964-65	V.G. Milne (1968) of the Ontario Department of Mines	Detailed mapping
1967	Falconbridge	Drilling
1983	S Young	Airborne EM, magnetics, and VLF
1983	Chavin Of Canada Ltd	Airborne EM, magnetics, and VLF
1983	Eden Roc Mineral Corp	Geology and geochem
1983	Harlain Resources Ltd	Geology , Geochem, IP, Magnetics and VLF
1984	Key Lake Expl Ltd	Geology
1984	Chavin Of Canada Ltd, Corporate Oil & Gas Ltd, New Mcmanus Red Lake Gold Mines Ltd	Geology , Magnetics and VLF
1984	Eden Roc Mineral Corp	Geology, trenches and assays
1985	Harlin Resources Ltd	Drilling
1986	Noranda Exploration Co	Geology
1991	Noranda Exploration Co	Drilling
1993	Albert Turner	Drill hole T/6-93
1995	Hemlo Gold Mining	Drill Hole Q95-1
1996	Crowbush Minerals Inc	Magnetics and VLF
2011	Brian David Fowler, Entourage Metals Ltd	Prospecting and assaying
2021	Palladium One Mining	Airborne VTEM and magnetic survey, and soil sampling.
2022	Palladium One Mining	One drilled 2 DDH and discovered the Pickle Lake Zone

5 -2020 EXPLORATION PROGRAM -

5.1 INTRODUCTION

Prospectair Geosurveys conducted a heliborne high-resolution magnetic (MAG) survey for the mineral exploration company First Class Metals Ltd. on its North Hemlo Property located in the northeastern extension of the Schreiber-Hemlo Greenstone Belt area, Thunder Bay Mining Division, Province of Ontario. The survey was flown from May 9 to 15, 2022.

One survey block was flown for a total of 2,494 l-km. A total of 15 production flights were performed using Prospectair's Eurocopter EC120B, registered C-GTAZ. The helicopter and survey crew operated out of the Manitouwadge Airport located 25 km to the northwest of the block.

The North Hemlo block was flown with traverse lines at 25 and 50 m spacings, and control lines spaced every 500 m. The survey lines were oriented N160 and control lines were flown at an azimuth of N070. The average height above ground of the helicopter was 43 m and the magnetic sensor was at 24 m. The average survey flying speed was 33.7 m/s. The survey area is covered by forest, lakes and some wetlands. The topography is mostly gently undulating with a few hills, the highest ones being located in the southwest part of the block. The elevation is ranging from 284 to 524 m above mean sea level (MSL). The town of Manitouwadge is located about 25 km to the north of the block. The block is roughly located between the Theresa, Spider and Olga lakes to the southeast and the Mobert and Ziziginiga creeks to the northwest. From the ground, the block can be easily accessed via secondary forestry roads connecting to Road 614, which passes less than 2 km to the southwest of the block and links the town of Manitouwadge to the Trans-Canada Highway 17, further to the south

5.1 SURVEY EQUIPMENT

Prospectair provided the following instrumentation for this survey:

Airborne Magnetometer

Geometrics G-822A

The heliborne system used a non-oriented (strap-down) optically-pumped Cesium splitbeam sensor. These magnetometers have a sensitivity of 0.005 nT and a range of 15,000 to 100,000 nT with a sensor noise of less than 0.02 nT. The heliborne sensor was mounted in a bird made of non-magnetic material located 19 m below the helicopter when flying. Total magnetic field measurements were recorded at 10 Hz in the aircraft.

Real-Time Differential GPS

Omnistar DGPS

Prospectair uses an OmniStar differential GPS navigation system to provide real-time guidance for the pilot and to position data to an absolute accuracy of better than 5 m. The Omnistar receiver provides real-time differential GPS for the Agis on-board navigation system. The differential data set was relayed to the helicopter via the Omnistar network appropriate geosynchronous satellite for the survey location. The receiver optimizes the corrections for the current location.

Airborne Navigation and Data Acquisition System

Pico-Envirotec AGIS-XP system The Airborne Geophysical Information System (AGIS-XP) is advanced, software driven instrument specifically designed for mobile aerial or ground geophysical survey work. The GIS instrumentation package includes an advanced navigation system, real-time flight path information that is displayed over a map image of the area, and reliable data acquisition software. Thanks to simple interfacing, the radar and barometric altimeters and the Geometrics magnetometer are easily integrated into the system and digitally recorded. Automatic synchronization to the GPS position and time provides very close correlation between data and geographical position. The AGIS is equipped with a software suite allowing easy maintenance, upgrades, data QC, and project and survey area layout planning.

Magnetic Base Station

GEM GSM-19

A GEM GSM-19 Overhauser magnetometer, a computer workstation and a complement of spare parts and equipment serve as the base station. Prospectair establish the base station in a secure location with low magnetic noise. The GSM-19 magnetometer has resolution of 0.01 nT, and 0.2 nT accuracy over its operating range of 20,000- to 100,000 nT. The ground system was recording magnetic data at 1 Hz.

Altimeters

Free Flight Radar Altimeter

The Free Flight radar altimeter measures height above ground to a resolution of 0.5 m and an accuracy of 5% over a range up to 2,500 ft. The radar altimeter data is recorded and sampled at 10 Hz.

Digital Barometric Pressure Sensor

The barometric pressure sensor measures static pressure to an accuracy of ± 4 m and resolution of 2 m over a range up to 30,000 ft above sea level. The barometric altimeter data are sampled at 10 Hz.

Survey helicopter

Eurocopter EC120B (registration C-GTAZ)

The survey was flown using Prospectair's EC120B helicopter that handles efficiently the equipment load and the required survey range. In some areas, it is possible to detect structural features offsetting observed magnetic lineaments and causing abrupt interruption or changes of the magnetic response. These features are typically caused by faults, fractures and shear zones. If they are thought to be favorable structures in the exploration context of the North Hemlo project, they should be paid particular attention and should be the object of a comprehensive structural interpretation, which is beyond the scope of this report.

6 RESULTS AND DISCUSSION

The residual Total Magnetic Intensity (TMI) of the North Hemlo block, presented in Figure 6, is relatively active and varies over a range of 4,232 nT, with an average of -141 nT and a standard deviation of 137 nT. Most of the surveyed area is affected by linear magnetic features characteristic of alternating sequences of mafic volcanic rocks with sedimentary or intermediate to felsic volcanic rocks, with possibly some intrusive stocks, sills or dykes locally. The strongest anomalies of the survey are occurring in the central part of the block, to the northeast of Dotted Lake, and at the southeast tip of the block. They are most likely related to mafic/ultramafic intrusive rocks or iron formations with limited amounts of magnetite. Stronger anomalies show the residual TMI data with a linear color distribution. Remaining anomalies of lower amplitude could pertain to mafic volcanic rocks or to mafic dykes, in the case of very linear magnetic anomalies stretching over long distances. Other areas with lower background values or decreased signal variability are likely to be dominated by sedimentary or felsic to intermediate intrusive/volcanic rocks.

Most magnetic lineaments that seem related to rock formations' schistosity are generally trending WNW-ESE, in the southwestern part of the block, and are gradually changing to NE-SW while progressing towards the northeast. A high amount of narrow and very continuous lineaments are also seen throughout the area and are crisscrossing each other. They appear related to different families of mafic dykes, most mainly striking N-S to NNE-SSW, but some also

rather oriented ENE-WSW to NE-SW, or NW-SE locally. Many lineaments appear curved locally, attesting that the area underwent deformation events in the past. In general terms, magnetic lineaments are related to rock formations that are enriched in magnetic minerals (magnetite and/or pyrrhotite).

7 RECOMMENDATIONS

The recommendations are as follows:

- A follow up soil sampling and prospecting program.
- Reprocessing and interpretation of the 1989 Geco Magnetic Survey which covers the majority of the Hemlo Greenstone Belt including the Esa property.
- Additional modeling and interpretation of geophysics will drill targets.

8 CERTIFICATION OF QUALIFICATIONS

I, Cathy Salo, of 475 Francis St. East, Thunder Bay, Ontario, do hereby certify that:

1. I hold a Bachelor of Science Degree in Earth Science (1989) from Memorial University of Newfoundland, St. John's, Newfoundland and Labrador.
2. I have practiced my profession in Ontario since 1989 and have been employed directing by Ontario mining exploration companies for the last 20 years as the sole proprietary of Salo Geoscience Services.

Cathy Salo, P.Ge

Salo Geoscience Services



Date: October 25, 2022

9 - REFERENCES-

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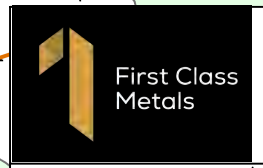
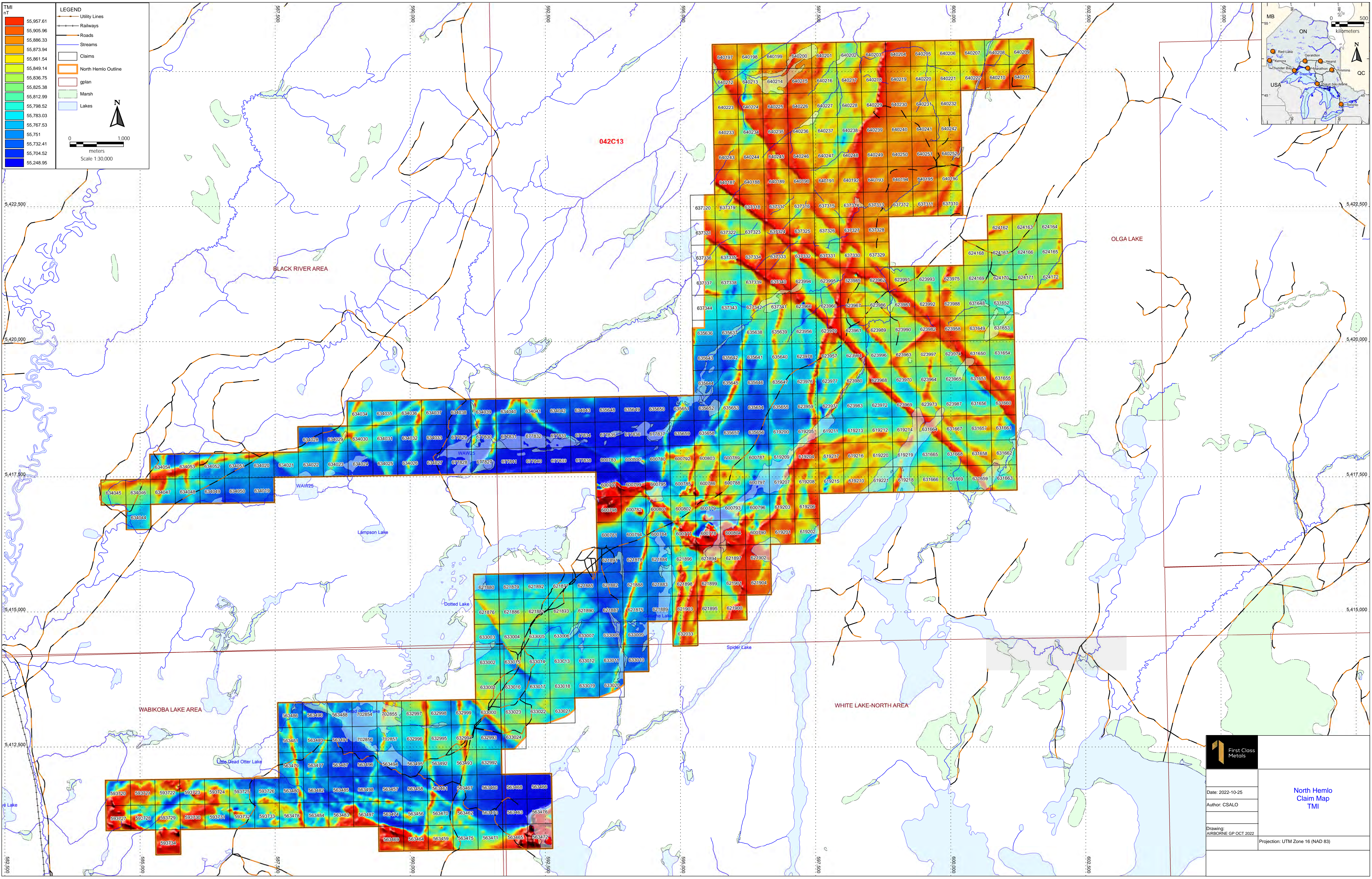
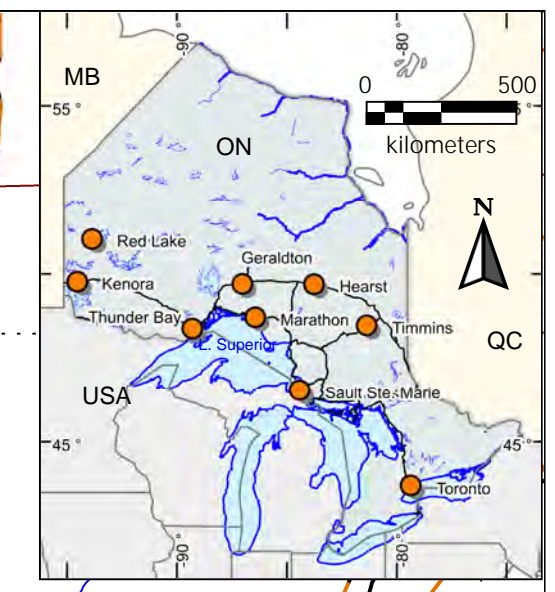
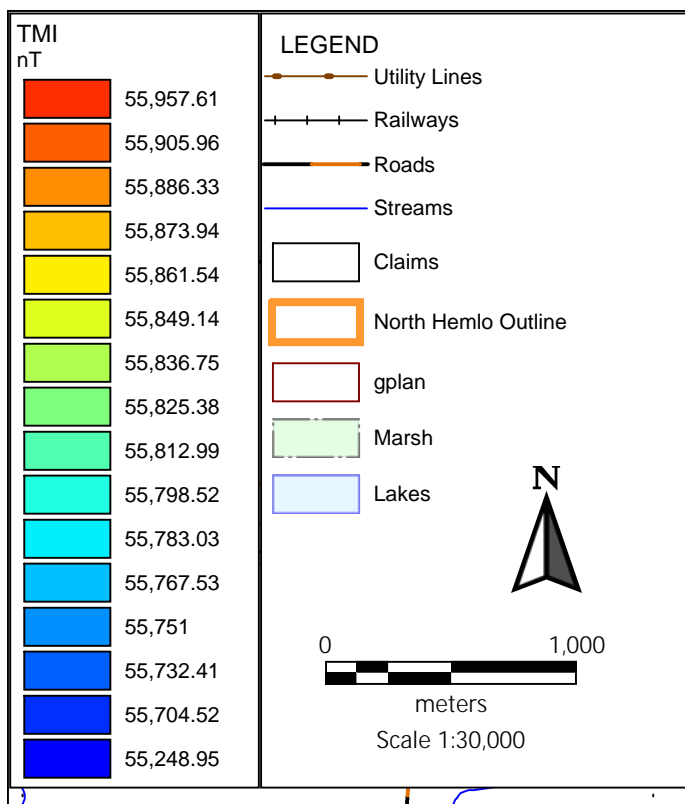
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Map



Date: 2022-10-25
Author: CSALO
Drawing: AIRBORNE GP OCT 2022
Projection: UTM Zone 16 (NAD 83)

**North Hemo
Claim Map
TMI**

Claims List

Tenure	Type	Status	Issued	Claim Due	Holder 100%
623963	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
623980	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
623981	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
623985	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
623994	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
634019	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
631648	Single Cell Mining Claim	Active	20210121	20230121	First Class Metals Canada Inc.
631650	Single Cell Mining Claim	Active	20210121	20230121	First Class Metals Canada Inc.
631656	Single Cell Mining Claim	Active	20210121	20230121	First Class Metals Canada Inc.
631658	Single Cell Mining Claim	Active	20210121	20230121	First Class Metals Canada Inc.
631664	Single Cell Mining Claim	Active	20210121	20230121	First Class Metals Canada Inc.
640195	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640187	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640189	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
621894	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.
621895	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.
640247	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
563460	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
563466	Single Cell Mining	Active	20191103	20221103	First Class Metals Canada Inc.

Tenure	Type	Status	Issued	Claim Due	Holder 100%
	Claim				
563472	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
563477	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
563486	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
600787	Single Cell Mining Claim	Active	20200724	20230724	First Class Metals Canada Inc.
600796	Single Cell Mining Claim	Active	20200724	20230724	First Class Metals Canada Inc.
600803	Single Cell Mining Claim	Active	20200724	20230724	First Class Metals Canada Inc.
619202	Single Cell Mining Claim	Active	20201116	20221116	First Class Metals Canada Inc.
619204	Single Cell Mining Claim	Active	20201116	20221116	First Class Metals Canada Inc.
563492	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
593720	Single Cell Mining Claim	Active	20200603	20230603	First Class Metals Canada Inc.
593722	Single Cell Mining Claim	Active	20200603	20230603	First Class Metals Canada Inc.
593724	Single Cell Mining Claim	Active	20200603	20230603	First Class Metals Canada Inc.
635636	Single Cell Mining Claim	Active	20210207	20230207	First Class Metals Canada Inc.
635638	Single Cell Mining Claim	Active	20210207	20230207	First Class Metals Canada Inc.
635644	Single Cell Mining Claim	Active	20210207	20230207	First Class Metals Canada Inc.
635646	Single Cell Mining Claim	Active	20210207	20230207	First Class Metals Canada Inc.
635648	Single Cell Mining Claim	Active	20210207	20230207	First Class Metals Canada Inc.
635650	Single Cell Mining Claim	Active	20210207	20230207	First Class Metals Canada Inc.
600779	Single Cell Mining Claim	Active	20200724	20230724	First Class Metals Canada Inc.
600780	Single Cell Mining Claim	Active	20200724	20230724	First Class Metals Canada Inc.
619210	Single Cell Mining Claim	Active	20201116	20221116	First Class Metals Canada Inc.
619212	Single Cell Mining Claim	Active	20201116	20221116	First Class Metals Canada Inc.
632993	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
600782	Single Cell Mining Claim	Active	20200724	20230724	First Class Metals Canada Inc.

Tenure	Type	Status	Issued	Claim Due	Holder 100%
	Claim				
600783	Single Cell Mining Claim	Active	20200724	20230724	First Class Metals Canada Inc.
632997	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
633001	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
634028	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
634030	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
634032	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
634038	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
634040	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
634042	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
621902	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.
621875	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.
621876	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.
621877	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.
621878	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.
563456	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
563494	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
593726	Single Cell Mining Claim	Active	20200603	20230603	First Class Metals Canada Inc.
640193	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
633005	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
633007	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
633010	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
633017	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
633019	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
624163	Single Cell Mining Claim	Active	20201214	20221214	First Class Metals Canada Inc.

Tenure	Type	Status	Issued	Claim Due	Holder 100%
	Claim				
634045	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
634052	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
634054	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
623956	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
623959	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
623961	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
637315	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
637321	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
637323	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
637337	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
637339	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
640197	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640199	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640201	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640203	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640205	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640207	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640223	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640225	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640227	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640229	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640231	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
619200	Single Cell Mining Claim	Active	20201116	20221116	First Class Metals Canada Inc.
619201	Single Cell Mining Claim	Active	20201116	20221116	First Class Metals Canada Inc.

Tenure	Type	Status	Issued	Claim Due	Holder 100%
	Claim				
619207	Single Cell Mining Claim	Active	20201116	20221116	First Class Metals Canada Inc.
619211	Single Cell Mining Claim	Active	20201116	20221116	First Class Metals Canada Inc.
619214	Single Cell Mining Claim	Active	20201116	20221116	First Class Metals Canada Inc.
632992	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
632995	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
633008	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
635639	Single Cell Mining Claim	Active	20210207	20230207	First Class Metals Canada Inc.
635645	Single Cell Mining Claim	Active	20210207	20230207	First Class Metals Canada Inc.
635647	Single Cell Mining Claim	Active	20210207	20230207	First Class Metals Canada Inc.
635649	Single Cell Mining Claim	Active	20210207	20230207	First Class Metals Canada Inc.
635651	Single Cell Mining Claim	Active	20210207	20230207	First Class Metals Canada Inc.
624167	Single Cell Mining Claim	Active	20201214	20221214	First Class Metals Canada Inc.
634020	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
634022	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
631649	Single Cell Mining Claim	Active	20210121	20230121	First Class Metals Canada Inc.
631651	Single Cell Mining Claim	Active	20210121	20230121	First Class Metals Canada Inc.
635657	Single Cell Mining Claim	Active	20210207	20230207	First Class Metals Canada Inc.
621896	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.
593734	Single Cell Mining Claim	Active	20200603	20230603	First Class Metals Canada Inc.
631657	Single Cell Mining Claim	Active	20210121	20230121	First Class Metals Canada Inc.
563480	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
563481	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
621897	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.
593725	Single Cell Mining Claim	Active	20200603	20230603	First Class Metals Canada Inc.

Tenure	Type	Status	Issued	Claim Due	Holder 100%
	Claim				
640248	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
563483	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
621900	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.
623968	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
623975	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
563487	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
563488	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
623982	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
623989	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
633013	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
633015	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
633020	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
633021	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
633023	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
624165	Single Cell Mining Claim	Active	20201214	20221214	First Class Metals Canada Inc.
640194	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640188	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640190	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640252	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
593721	Single Cell Mining Claim	Active	20200603	20230603	First Class Metals Canada Inc.
593723	Single Cell Mining Claim	Active	20200603	20230603	First Class Metals Canada Inc.
621903	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.
621881	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.
621882	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.

Tenure	Type	Status	Issued	Claim Due	Holder 100%
	Claim				
563457	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
563461	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
563463	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
600781	Single Cell Mining Claim	Active	20200724	20230724	First Class Metals Canada Inc.
600785	Single Cell Mining Claim	Active	20200724	20230724	First Class Metals Canada Inc.
600788	Single Cell Mining Claim	Active	20200724	20230724	First Class Metals Canada Inc.
600791	Single Cell Mining Claim	Active	20200724	20230724	First Class Metals Canada Inc.
634031	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
634033	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
634039	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
634041	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
634043	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
635637	Single Cell Mining Claim	Active	20210207	20230207	First Class Metals Canada Inc.
634046	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
634048	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
623957	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
623960	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
623962	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
623964	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
637314	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
637320	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
637324	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
637331	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
637335	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.

Tenure	Type	Status	Issued	Claim Due	Holder 100%
	Claim				
637340	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
640198	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640200	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640202	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640204	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640206	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640208	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640224	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640226	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640228	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640230	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640232	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
677839	Single Cell Mining Claim	Active	20210923	20230923	First Class Metals Canada Inc.
619205	Single Cell Mining Claim	Active	20201116	20221116	First Class Metals Canada Inc.
619206	Single Cell Mining Claim	Active	20201116	20221116	First Class Metals Canada Inc.
621893	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.
600777	Single Cell Mining Claim	Active	20200724	20230724	First Class Metals Canada Inc.
637316	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
637318	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
637327	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
637332	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
637334	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
637336	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
640192	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.

Tenure	Type	Status	Issued	Claim Due	Holder 100%
	Claim				
631659	Single Cell Mining Claim	Active	20210121	20230121	First Class Metals Canada Inc.
631661	Single Cell Mining Claim	Active	20210121	20230121	First Class Metals Canada Inc.
631667	Single Cell Mining Claim	Active	20210121	20230121	First Class Metals Canada Inc.
634027	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
634034	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
634036	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
563458	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
563459	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
563468	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
563465	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
563467	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
563479	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
623958	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
623965	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
623966	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
623967	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
623969	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
623977	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
633016	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
633018	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
633024	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
632033	Single Cell Mining Claim	Active	20210123	20230123	First Class Metals Canada Inc.
624162	Single Cell Mining Claim	Active	20201214	20221214	First Class Metals Canada Inc.
624169	Single Cell Mining Claim	Active	20201214	20221214	First Class Metals Canada Inc.

Tenure	Type	Status	Issued	Claim Due	Holder 100%
	Claim				
640196	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640250	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
621898	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.
621901	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.
621879	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.
619213	Single Cell Mining Claim	Active	20201116	20221116	First Class Metals Canada Inc.
619218	Single Cell Mining Claim	Active	20201116	20221116	First Class Metals Canada Inc.
632994	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
632996	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
633004	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
593727	Single Cell Mining Claim	Active	20200603	20230603	First Class Metals Canada Inc.
593729	Single Cell Mining Claim	Active	20200603	20230603	First Class Metals Canada Inc.
593731	Single Cell Mining Claim	Active	20200603	20230603	First Class Metals Canada Inc.
593733	Single Cell Mining Claim	Active	20200603	20230603	First Class Metals Canada Inc.
633011	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
635640	Single Cell Mining Claim	Active	20210207	20230207	First Class Metals Canada Inc.
635642	Single Cell Mining Claim	Active	20210207	20230207	First Class Metals Canada Inc.
635652	Single Cell Mining Claim	Active	20210207	20230207	First Class Metals Canada Inc.
635654	Single Cell Mining Claim	Active	20210207	20230207	First Class Metals Canada Inc.
634051	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
634053	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
600786	Single Cell Mining Claim	Active	20200724	20230724	First Class Metals Canada Inc.
600790	Single Cell Mining Claim	Active	20200724	20230724	First Class Metals Canada Inc.
600794	Single Cell Mining Claim	Active	20200724	20230724	First Class Metals Canada Inc.

Tenure	Type	Status	Issued	Claim Due	Holder 100%
	Claim				
600795	Single Cell Mining Claim	Active	20200724	20230724	First Class Metals Canada Inc.
600797	Single Cell Mining Claim	Active	20200724	20230724	First Class Metals Canada Inc.
623990	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
623991	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
637312	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
563484	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
563490	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
563497	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
621887	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.
637342	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
637344	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
640212	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640214	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640216	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
624171	Single Cell Mining Claim	Active	20201214	20221214	First Class Metals Canada Inc.
640218	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
634021	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
640220	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
634023	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
640222	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
634025	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
640233	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
631653	Single Cell Mining Claim	Active	20210121	20230121	First Class Metals Canada Inc.
640235	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.

Tenure	Type	Status	Issued	Claim Due	Holder 100%
	Claim				
631655	Single Cell Mining Claim	Active	20210121	20230121	First Class Metals Canada Inc.
640237	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640242	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
677827	Single Cell Mining Claim	Active	20210923	20230923	First Class Metals Canada Inc.
677832	Single Cell Mining Claim	Active	20210923	20230923	First Class Metals Canada Inc.
677834	Single Cell Mining Claim	Active	20210923	20230923	First Class Metals Canada Inc.
677836	Single Cell Mining Claim	Active	20210923	20230923	First Class Metals Canada Inc.
640249	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640191	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640251	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
621886	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.
623987	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
623988	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
623995	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
619203	Single Cell Mining Claim	Active	20201116	20221116	First Class Metals Canada Inc.
563474	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
563476	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
563478	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
563485	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
621899	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.
621904	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.
563462	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
619215	Single Cell Mining Claim	Active	20201116	20221116	First Class Metals Canada Inc.
619219	Single Cell Mining Claim	Active	20201116	20221116	First Class Metals Canada Inc.

Tenure	Type	Status	Issued	Claim Due	Holder 100%
	Claim				
633000	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
633002	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
633006	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
635653	Single Cell Mining Claim	Active	20210207	20230207	First Class Metals Canada Inc.
635655	Single Cell Mining Claim	Active	20210207	20230207	First Class Metals Canada Inc.
634047	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
634049	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
623970	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
593728	Single Cell Mining Claim	Active	20200603	20230603	First Class Metals Canada Inc.
593730	Single Cell Mining Claim	Active	20200603	20230603	First Class Metals Canada Inc.
593732	Single Cell Mining Claim	Active	20200603	20230603	First Class Metals Canada Inc.
600778	Single Cell Mining Claim	Active	20200724	20230724	First Class Metals Canada Inc.
600784	Single Cell Mining Claim	Active	20200724	20230724	First Class Metals Canada Inc.
600789	Single Cell Mining Claim	Active	20200724	20230724	First Class Metals Canada Inc.
600792	Single Cell Mining Claim	Active	20200724	20230724	First Class Metals Canada Inc.
600799	Single Cell Mining Claim	Active	20200724	20230724	First Class Metals Canada Inc.
619209	Single Cell Mining Claim	Active	20201116	20221116	First Class Metals Canada Inc.
631654	Single Cell Mining Claim	Active	20210121	20230121	First Class Metals Canada Inc.
631660	Single Cell Mining Claim	Active	20210121	20230121	First Class Metals Canada Inc.
631662	Single Cell Mining Claim	Active	20210121	20230121	First Class Metals Canada Inc.
631668	Single Cell Mining Claim	Active	20210121	20230121	First Class Metals Canada Inc.
634026	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
623971	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
623974	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.

Tenure	Type	Status	Issued	Claim Due	Holder 100%
	Claim				
623978	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
623984	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
623986	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
563489	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
563493	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
621883	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.
621885	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.
633009	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
633022	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
624164	Single Cell Mining Claim	Active	20201214	20221214	First Class Metals Canada Inc.
624168	Single Cell Mining Claim	Active	20201214	20221214	First Class Metals Canada Inc.
631652	Single Cell Mining Claim	Active	20210121	20230121	First Class Metals Canada Inc.
634029	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
634035	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
634037	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
635641	Single Cell Mining Claim	Active	20210207	20230207	First Class Metals Canada Inc.
635643	Single Cell Mining Claim	Active	20210207	20230207	First Class Metals Canada Inc.
637311	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
637313	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
637317	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
637319	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
637326	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
637329	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
637333	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.

Tenure	Type	Status	Issued	Claim Due	Holder 100%
	Claim				
637338	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
637341	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
640209	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640213	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640215	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640217	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640219	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640221	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640234	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640236	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
677828	Single Cell Mining Claim	Active	20210923	20230923	First Class Metals Canada Inc.
677831	Single Cell Mining Claim	Active	20210923	20230923	First Class Metals Canada Inc.
677833	Single Cell Mining Claim	Active	20210923	20230923	First Class Metals Canada Inc.
677835	Single Cell Mining Claim	Active	20210923	20230923	First Class Metals Canada Inc.
619216	Single Cell Mining Claim	Active	20201116	20221116	First Class Metals Canada Inc.
632998	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
633003	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
621889	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.
621890	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.
600798	Single Cell Mining Claim	Active	20200724	20230724	First Class Metals Canada Inc.
600800	Single Cell Mining Claim	Active	20200724	20230724	First Class Metals Canada Inc.
600801	Single Cell Mining Claim	Active	20200724	20230724	First Class Metals Canada Inc.
619208	Single Cell Mining Claim	Active	20201116	20221116	First Class Metals Canada Inc.
621891	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.

Tenure	Type	Status	Issued	Claim Due	Holder 100%
	Claim				
621892	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.
563471	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
563482	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
563491	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
563495	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
623992	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
623996	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
623997	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
637322	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
637325	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
637328	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
637343	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
633012	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
633014	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
624166	Single Cell Mining Claim	Active	20201214	20221214	First Class Metals Canada Inc.
634024	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
631665	Single Cell Mining Claim	Active	20210121	20230121	First Class Metals Canada Inc.
635656	Single Cell Mining Claim	Active	20210207	20230207	First Class Metals Canada Inc.
635658	Single Cell Mining Claim	Active	20210207	20230207	First Class Metals Canada Inc.
634044	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
621880	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.
563470	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
563498	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
621884	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.

Tenure	Type	Status	Issued	Claim Due	Holder 100%
	Claim				
600793	Single Cell Mining Claim	Active	20200724	20230724	First Class Metals Canada Inc.
637310	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
623972	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
623973	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
623976	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
623979	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
640210	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640238	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640240	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640243	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640245	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
677829	Single Cell Mining Claim	Active	20210923	20230923	First Class Metals Canada Inc.
677838	Single Cell Mining Claim	Active	20210923	20230923	First Class Metals Canada Inc.
677840	Single Cell Mining Claim	Active	20210923	20230923	First Class Metals Canada Inc.
621888	Single Cell Mining Claim	Active	20201203	20221203	First Class Metals Canada Inc.
563473	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
600804	Single Cell Mining Claim	Active	20200724	20230724	First Class Metals Canada Inc.
563496	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
563464	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
600802	Single Cell Mining Claim	Active	20200724	20230724	First Class Metals Canada Inc.
619217	Single Cell Mining Claim	Active	20201116	20221116	First Class Metals Canada Inc.
619220	Single Cell Mining Claim	Active	20201116	20221116	First Class Metals Canada Inc.
632999	Single Cell Mining Claim	Active	20210130	20230130	First Class Metals Canada Inc.
624170	Single Cell Mining Claim	Active	20201214	20221214	First Class Metals Canada Inc.

Tenure	Type	Status	Issued	Claim Due	Holder 100%
	Claim				
624172	Single Cell Mining Claim	Active	20201214	20221214	First Class Metals Canada Inc.
631666	Single Cell Mining Claim	Active	20210121	20230121	First Class Metals Canada Inc.
635659	Single Cell Mining Claim	Active	20210207	20230207	First Class Metals Canada Inc.
634050	Single Cell Mining Claim	Active	20210205	20230205	First Class Metals Canada Inc.
623983	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
623993	Single Cell Mining Claim	Active	20201212	20221212	First Class Metals Canada Inc.
637330	Single Cell Mining Claim	Active	20210215	20230215	First Class Metals Canada Inc.
640239	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640241	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640244	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
640246	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
677830	Single Cell Mining Claim	Active	20210923	20230923	First Class Metals Canada Inc.
619221	Single Cell Mining Claim	Active	20201116	20221116	First Class Metals Canada Inc.
631669	Single Cell Mining Claim	Active	20210121	20230121	First Class Metals Canada Inc.
640211	Single Cell Mining Claim	Active	20210302	20230302	First Class Metals Canada Inc.
631663	Single Cell Mining Claim	Active	20210121	20230121	First Class Metals Canada Inc.
677841	Single Cell Mining Claim	Active	20210923	20230923	First Class Metals Canada Inc.
563469	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.
677837	Single Cell Mining Claim	Active	20210923	20230923	First Class Metals Canada Inc.
563475	Single Cell Mining Claim	Active	20191103	20221103	First Class Metals Canada Inc.

Technical Report

High-Resolution Heliborne Magnetic Survey

***North Hemlo Property, Schreiber-Hemlo Greenstone Belt
Area, Thunder Bay Mining Division, Ontario, 2022***

First Class Metals Ltd.

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Prospectair Geosurveys

Dynamic Discovery Geoscience



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June 2022

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I. INTRODUCTION

Prospectair Geosurveys conducted a heliborne high-resolution magnetic (MAG) survey for the mineral exploration company First Class Metals Ltd. on its North Hemlo Property located in the northeastern extension of the Schreiber-Hemlo Greenstone Belt area, Thunder Bay Mining Division, Province of Ontario (Figure 1). The survey was flown from May 9 to 15, 2022.

Figure 1: General Survey Location

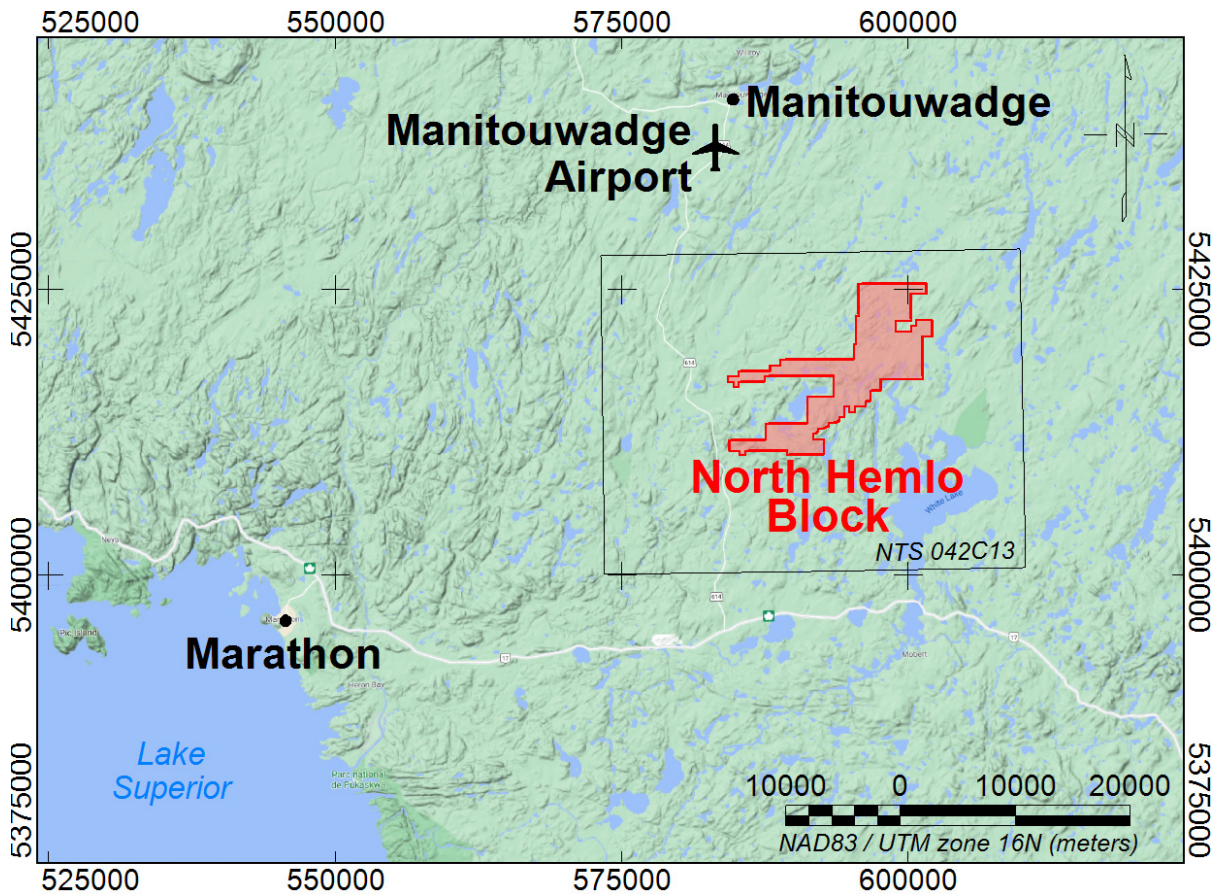


One survey block was flown for a total of 2,494 l-km. A total of 15 production flights were performed using Prospectair’s Eurocopter EC120B, registered C-GTAZ. The helicopter and survey crew operated out of the Manitowadge Airport located 25 km to the northwest of the block (Figure 2).

Table 1: Survey block particulars

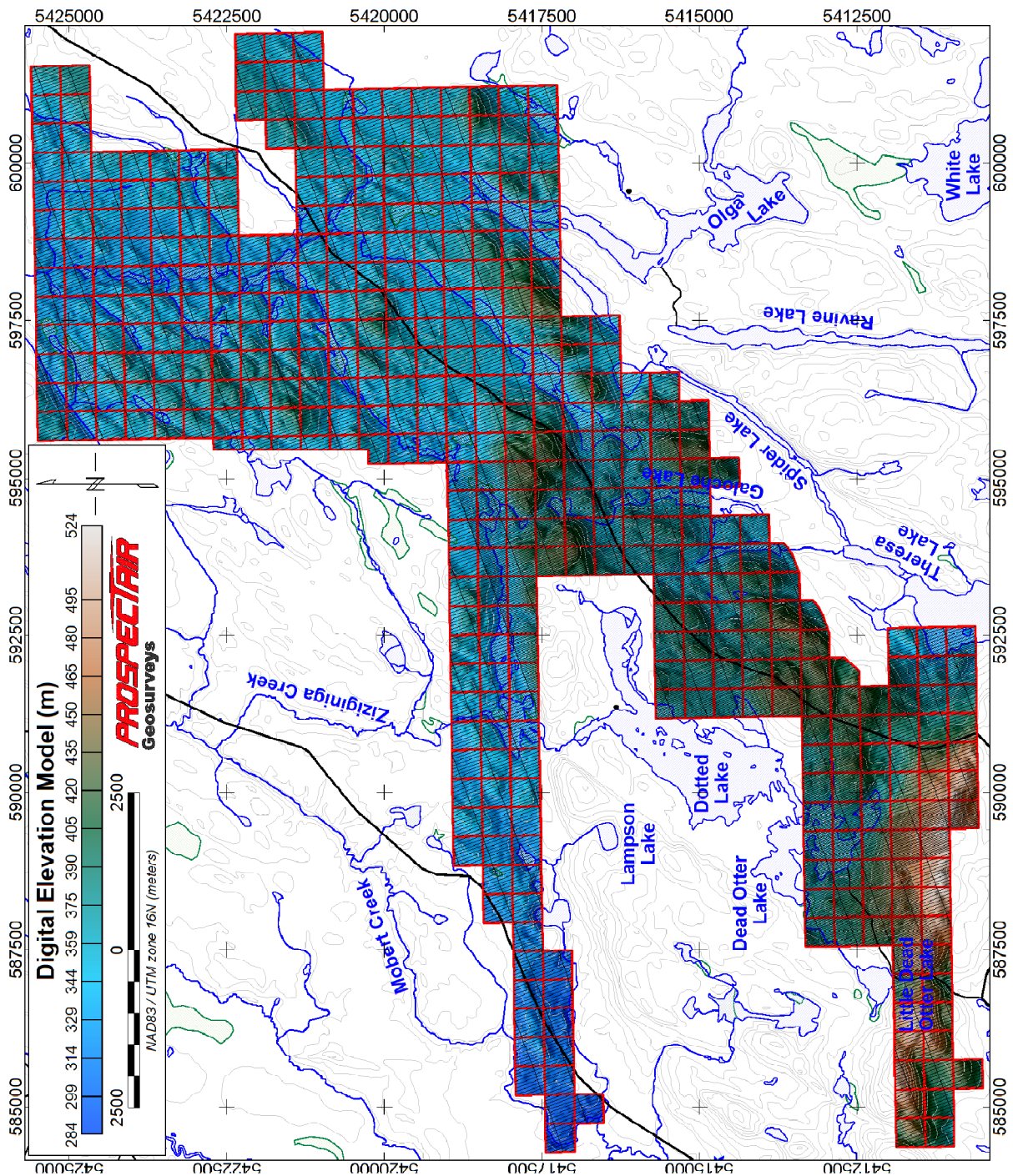
Block	NTS Mapsheet	Line-km flown	Flight numbers	Dates Flown
North Hemlo	042C13	2,494 l-km	Flt 1 to 15	May 9 to 15

Figure 2: Survey Location and base of operation



The North Hemlo block was flown with traverse lines at 25 and 50 m spacings, and control lines spaced every 500 m. The survey lines were oriented N160 and control lines were flown at an azimuth of N070. The average height above ground of the helicopter was 43 m and the magnetic sensor was at 24 m. The average survey flying speed was 33.7 m/s. The survey area is covered by forest, lakes and some wetlands. The topography is mostly gently undulating with a few hills, the highest ones being located in the southwest part of the block. The elevation is ranging from 284 to 524 m above mean sea level (MSL). The town of Manitouwadge is located about 25 km to the north of the block. The block is roughly located between the Theresa, Spider and Olga lakes to the southeast and the Moberg and Ziziginiga creeks to the northwest. From the ground, the block can be easily accessed via secondary forestry roads connecting to Road 614, which passes less than 2 km to the southwest of the block and links the town of Manitouwadge to the Trans-Canada Highway 17, further to the south. Coordinates outlining the survey block are given in Appendix A, with respect to NAD-83 datum, UTM projection zone 16N. The location of the North Hemlo Property claims (in red) and of the survey lines is shown on Figure 3. The Property claims numbers, as well as the approximate amount of line-km flown over each claim, are also listed in Appendix B.

Figure 3: Survey lines and North Hemlo Property claims



II. SURVEY EQUIPMENT

Prospectair provided the following instrumentation for this survey:

Airborne Magnetometer

Geometrics G-822A

The heliborne system used a non-oriented (strap-down) optically-pumped Cesium split-beam sensor. These magnetometers have a sensitivity of 0.005 nT and a range of 15,000 to 100,000 nT with a sensor noise of less than 0.02 nT. The heliborne sensor was mounted in a bird made of non-magnetic material located 19 m below the helicopter when flying. Total magnetic field measurements were recorded at 10 Hz in the aircraft.

Real-Time Differential GPS

Omnistar DGPS

Prospectair uses an OmniStar differential GPS navigation system to provide real-time guidance for the pilot and to position data to an absolute accuracy of better than 5 m. The *Omnistar* receiver provides real-time differential GPS for the Agis on-board navigation system. The differential data set was relayed to the helicopter via the Omnistar network appropriate geosynchronous satellite for the survey location. The receiver optimizes the corrections for the current location.

Airborne Navigation and Data Acquisition System

Pico-Envirotec AGIS-XP system

The Airborne Geophysical Information System (AGIS-XP) is advanced, software driven instrument specifically designed for mobile aerial or ground geophysical survey work. The AGIS instrumentation package includes an advanced navigation system, real-time flight path information that is displayed over a map image of the area, and reliable data acquisition software. Thanks to simple interfacing, the radar and barometric altimeters and the Geometrics magnetometer are easily integrated into the system and digitally recorded. Automatic synchronization to the GPS position and time provides very close correlation between data and geographical position. The AGIS is equipped with a software suite allowing easy maintenance, upgrades, data QC, and project and survey area layout planning.

Magnetic Base Station

GEM GSM-19

A GEM GSM-19 Overhauser magnetometer, a computer workstation and a complement of spare parts and equipment serve as the base station. Prospectair establish the base station in a secure location with low magnetic noise. The GSM-19 magnetometer has resolution of 0.01 nT, and 0.2 nT accuracy over its operating range of 20,000- to 100,000 nT. The ground system was recording magnetic data at 1 Hz.

Altimeters

Free Flight Radar Altimeter

The Free Flight radar altimeter measures height above ground to a resolution of 0.5 m and an accuracy of 5% over a range up to 2,500 ft. The radar altimeter data is recorded and sampled at 10 Hz.

Digital Barometric Pressure Sensor

The barometric pressure sensor measures static pressure to an accuracy of ± 4 m and resolution of 2 m over a range up to 30,000 ft above sea level. The barometric altimeter data are sampled at 10 Hz.

Survey helicopter

Eurocopter EC120B (registration C-GTAZ)

The survey was flown using Prospectair's EC120B helicopter that handles efficiently the equipment load and the required survey range. Table 2 presents the EC120B technical specifications and capacity, and the aircraft is shown in Figure 4.

Table 2: **Technical specifications of the EC120B Eurocopter helicopter**

Item	Specification
Powerplant	One 376kW (504hp) Turbomeca Arrius 2F
Rate of climb	1,150 ft/min
Cruise speed	223 km/h – 120 kts
Service ceiling	17,000 ft
Range with no reserve	710 km
Empty weight	991 kg
Maximum takeoff weight	1,715 kg

Figure 4: **C-GTAZ Eurocopter EC120B**



III. SURVEY SPECIFICATIONS

Data Recording

The following parameters were recorded during the course of the survey:

In the helicopter:

- GPS positional data: time, latitude, longitude, altitude, heading and accuracy (PDOP) recorded at intervals of 0.1 s;
- Total magnetic field: recorded at intervals of 0.1 s;
- Pressure as measured by the barometric altimeter at intervals of 0.1 s;
- Terrain clearance as measured by the radar altimeter at intervals of 0.1 s;

At the base and remote magnetic ground stations:

- Total magnetic field: recorded at intervals of 1 s;
- GPS time recorded every 1 s to synchronize with airborne data.

Technical Specifications

The data quality control was performed on a daily basis. The following technical specifications were adhered to:

- *Height* – 50m mean terrain clearance for the helicopter except in areas where Transport Canada regulations prevent flying at this height, or as deemed by the pilot to ensure safety. Traverse lines and control lines must be flown at the same altitude at points of intersection; the altitude tolerances are limited to no more than 30 m difference between traverse lines and control lines.
- *Airborne Magnetometer Data* – A 0.5 nT noise envelope not to be exceeded for more than 500 m line-length without a reflight.
- *Diurnal Specifications* – A maximum tolerance of 5.0 nT (peak to peak) deviation from a long chord of one minute at the base station.
- *Flying Speed* – The average ground speed for the survey aircraft should be 120 kph. The acceptable high limit is 180 kph over flat topography.
- *Radar Altimeter* – minimal accuracy of 5%, minimum range of 0-2500 m.
- *Barometer* – Absolute air pressure to 0.1 kPa.
- *Flight Path Following* – The line spacing not to vary by more than 30% from the ideal spacing over a distance of more than 300 m, except as required for aviation safety.

For North Hemlo Block:

Traverse lines: Azimuth N160, 25 & 50 m spacing.

Control Lines: Azimuth N070, 500 m spacing.

IV. SYSTEM TESTS

Magnetometer System Calibration

The survey configuration using a bird towed 19 m below any magnetic piece of the helicopter allows the simplification of the magnetic calibration requirement. Consequently, heading error and aircraft movement noise was considered negligible and no correction was applied to the data.

Instrumentation Lag

The magnetometer lag is a combination of two factors: 1) the time difference between when a reading is sensed, and when that value is recorded by the acquisition system, and 2) the time taken for the sensor to arrive at the location of the GPS antenna. The second factor is defined by the physical distance between the GPS antenna and any given sensor, and the speed of the aircraft. The average total magnetic lag value for the AGIS acquisition system has been calculated to 1.77 s for this survey.

V. FIELD OPERATIONS

The survey operations were conducted out of the Manitouwadge airport, from May 9 to 15 2022. The data acquisition required 15 flights. At the end of each production day, the data were sent to the Dynamic Discovery Geoscience office via internet. The data were then checked for Quality Control to ensure they fulfilled contractual specifications. The full dataset was inspected prior to provide authorization for the field crew to demobilize. The GSM-19 magnetic base station was set up close to the Manitouwadge airport, in a magnetically quiet area, at latitude 49.0871949°N, longitude 85.8542211°W. The survey pilot was Dominic Latour and the survey system technician was Jonathan Drolet.

Figure 5: Example of a magnetic base station setup



VI. DIGITAL DATA COMPILATION

Data compilation including editing and filtering, quality control, and final data processing was performed by Joël Dubé, P.Eng. Processing was performed on high performance computers optimized for quick daily QC and processing tasks. Geosoft software Oasis Montaj version 2021.2.1 was used.

Magnetometer Data

General

The airborne magnetometer data, recorded at 10 Hz, were plotted and checked for spikes and noise on a flight basis. An average of 1.77 second lag correction was applied to the data to correct for the time delay between detection and recording of the airborne data.

Ground magnetometer data were recorded at 1 sample per second and interpolated by a spline function to 10 Hz to match airborne data. Data were inspected for cultural interference and edited where necessary. Low-pass filtering was deemed necessary on the ground station magnetometer data to remove minor high frequency noise. The diurnal variations were removed by subtracting the ground magnetometer data to the airborne data and by adding back the average of the ground magnetometer value.

The levelling corrections were applied in several steps. First of all, a correction for altitude was applied by multiplying the First Vertical Derivative (FVD) of the Total Magnetic Intensity (TMI) by the difference between the actual survey altitude and the average survey altitude. Standard levelling corrections were then performed using intersection statistics from traverse and tie lines. After statistical levelling was considered satisfactory, decorrugation was applied on the data to remove any remaining subtle non-geological features oriented in the direction of the traverse lines.

Once the Total Magnetic Intensity (TMI) was gridded, its First Vertical Derivative (FVD) and Second Vertical Derivative (SVD) were calculated to enhance narrow and shallow geological features. Finally, the component of the normal Earth's magnetic field, described by the International Geomagnetic Reference Field (IGRF), has been removed from the TMI to yield the residual TMI.

Tilt Angle Derivative

In order to enhance the subtle magnetic features some more, the Tilt Angle Derivative (TILT) was also computed for this project.

It has been shown that it is possible to use the Tilt Angle Derivative to estimate both the location and depth of magnetic sources (Salem et al., 2007).

When two body of different magnetic susceptibility are in contact, the vertical and horizontal gradients along a horizontal line perpendicular to the vertical contact are governed by the following equations:

$$\delta M/\delta h = 2KFc(z_c/(h^2+z_c^2))$$

$$\delta M/\delta z = 2KFc(h/(h^2+z_c^2))$$

where

K = susceptibility contrast

F = magnetic field's strength

c = $1 - \cos^2(\text{field Inclination})\sin^2(\text{field Declination})$

h = location along an horizontal axis perpendicular to the contact

z_c = contact depth

$$\delta M/\delta h = \text{sqrt}((\delta M/\delta x)^2 + (\delta M/\delta y)^2)$$

The Tilt Angle (θ) is defined as

$$\theta = \tan^{-1}[(\delta M/\delta z)/(\delta M/\delta h)]$$

By substitution of the gradients we get

$$\theta = \tan^{-1}[h/z_c]$$

This has two main implications for any given anomaly:

- 1- The 0° angle line is located directly above the contact between a magnetic source and the surrounding rock. This allows for accurate estimation of source location.
- 2- The distance between the 0° and the $+45^\circ$ contour lines as well as the distance between the -45° and the 0° contour lines are equal to the depth of the source at the contact. This allows for a direct estimation of the depth of the source of the anomaly. The depth estimated with this method is actually the distance between the magnetic sensor and the top of the source. Knowing that the sensor was 24 m above the ground in average enables direct depth estimates.

In practice, the signal originating from multiple sources at different depth within a same area will cause juxtaposition of the Tilt Angle values, and complicate location and depth estimation. Nevertheless, the method remains an excellent tool for rapid assessment of sources characteristics, without the need for complex assumptions to be made or heavy computer requirements, as is the case with 3D Euler deconvolution or 3D data inversions.

Gridding

The magnetic data were interpolated onto a regular grid using a bi-directional gridding algorithm to create a two-dimensional grid equally incremented in x and y directions. The final grids of the magnetic data are supplied with a 10 m grid cell size. Traverse lines were used in the gridding process.

Radar Altimeter Data

The terrain clearance measured by the radar altimeter in metres was recorded at 10 Hz. The data were filtered to remove high frequency noise using a 1 sec low pass filter. The final data were plotted and inspected for quality.

Positional Data

Real time DGPS correction provided by Omnistar was applied to the recorded GPS positional data.

Positional data were originally recorded at 10 Hz sampling rate in geographic longitude and latitude with respect to the WGS-84 datum. The delivered data locations are provided in X and Y using the UTM projection zone 16 North, with respect to the NAD-83 datum. Altitude data were initially recorded relative to the GRS-80 ellipsoid, but are delivered as orthometric heights (MSL elevation).

Terrain Data

Terrain elevation data (also referred to as digital elevation model, or DEM) are computed from the altitude of the helicopter, given by DGPS recordings, and the radar altimeter data.

VII. RESULTS AND DISCUSSION

The residual Total Magnetic Intensity (TMI) of the North Hemlo block, presented in Figure 6, is relatively active and varies over a range of 4,232 nT, with an average of -141 nT and a standard deviation of 137 nT.

Most of the surveyed area is affected by linear magnetic features characteristic of alternating sequences of mafic volcanic rocks with sedimentary or intermediate to felsic volcanic rocks, with possibly some intrusive stocks, sills or dykes locally. The strongest anomalies of the survey are occurring in the central part of the block, to the northeast of Dotted Lake, and at the southeast tip of the block. They are most likely related to mafic/ultramafic intrusive rocks or to iron formations with limited amounts of magnetite. Stronger anomalies are best seen on Figure 7 which shows the residual TMI data with a linear color distribution. Remaining anomalies of lower amplitude could pertain to mafic volcanic rocks or to mafic dykes, in the case of very linear magnetic anomalies stretching over long distances. Other areas with lower background values or decreased signal variability are likely to be dominated by sedimentary or felsic to intermediate intrusive/volcanic rocks.

Most magnetic lineaments that seem related to rock formations' schistosity are generally trending WNW-ESE, in the southwestern part of the block, and are gradually changing to NE-SW while progressing towards the northeast. A high amount of narrow and very continuous lineaments are also seen throughout the area and are crisscrossing each other. They appear related to different families of mafic dykes, most mainly striking N-S to NNE-SSW, but some also rather oriented ENE-WSW to NE-SW, or NW-SE locally. Many lineaments appear curved locally, attesting that the area underwent deformation events in the past. In general terms, magnetic lineaments are related to rock formations that are enriched in magnetic minerals (magnetite and/or pyrrhotite).

In some areas, it is possible to detect structural features offsetting observed magnetic lineaments and causing abrupt interruption or changes of the magnetic response. These features are typically caused by faults, fractures and shear zones. If they are thought to be favorable structures in the exploration context of the North Hemlo project, they should be paid particular attention and should be the object of a comprehensive structural interpretation, which is beyond the scope of this report.

Shorter wavelength anomalies are greatly enhanced on the FVD (Figure 8) and on the TILT (Figure 9) products. Since the FVD attenuates longer wavelength anomalies, and the TILT enhances very weak amplitude anomalies, they are the preferred products for structural interpretation.

Figure 6: Residual Total Magnetic Intensity with equal area color distribution

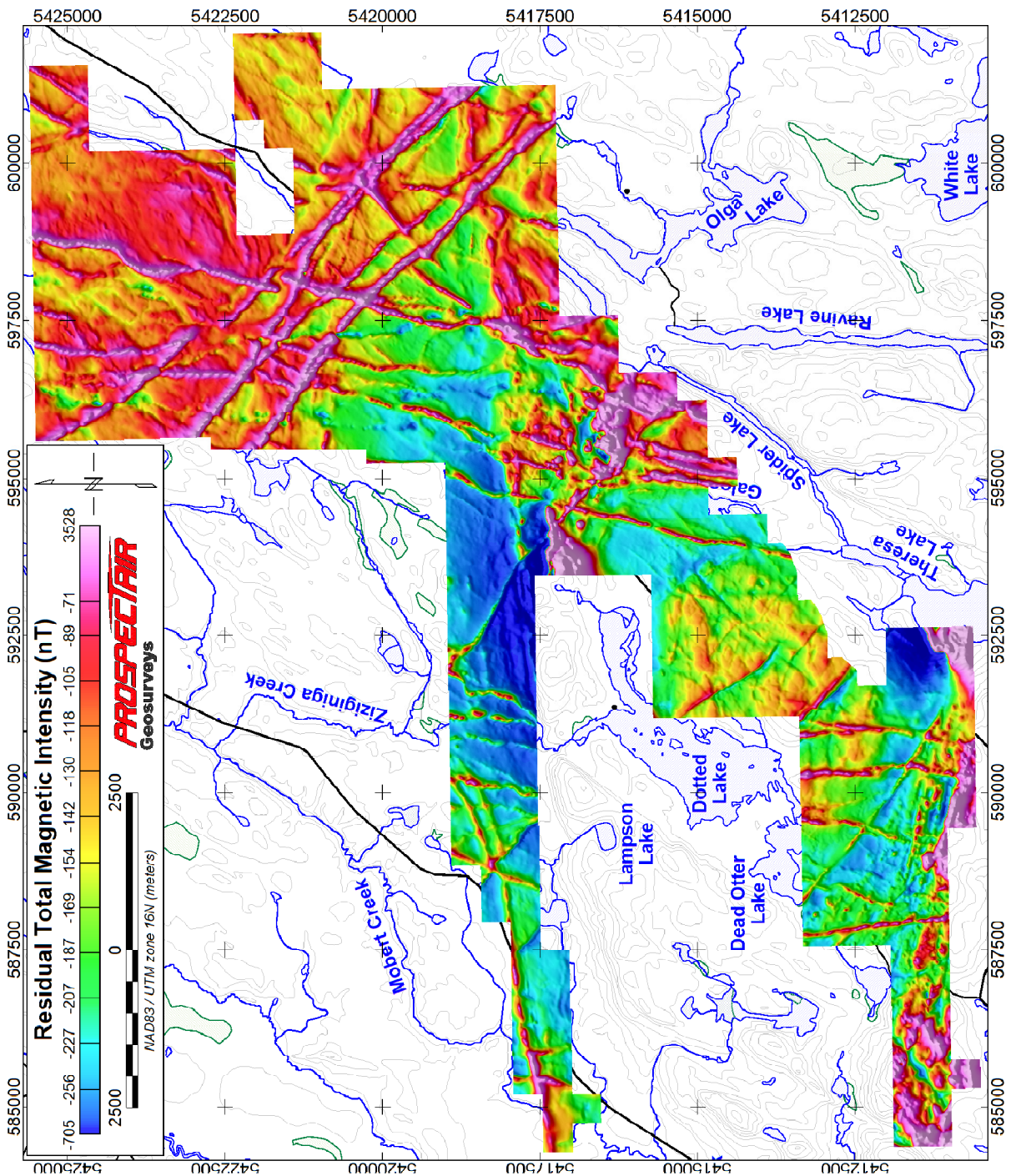


Figure 7: Residual Total Magnetic Intensity with linear color distribution

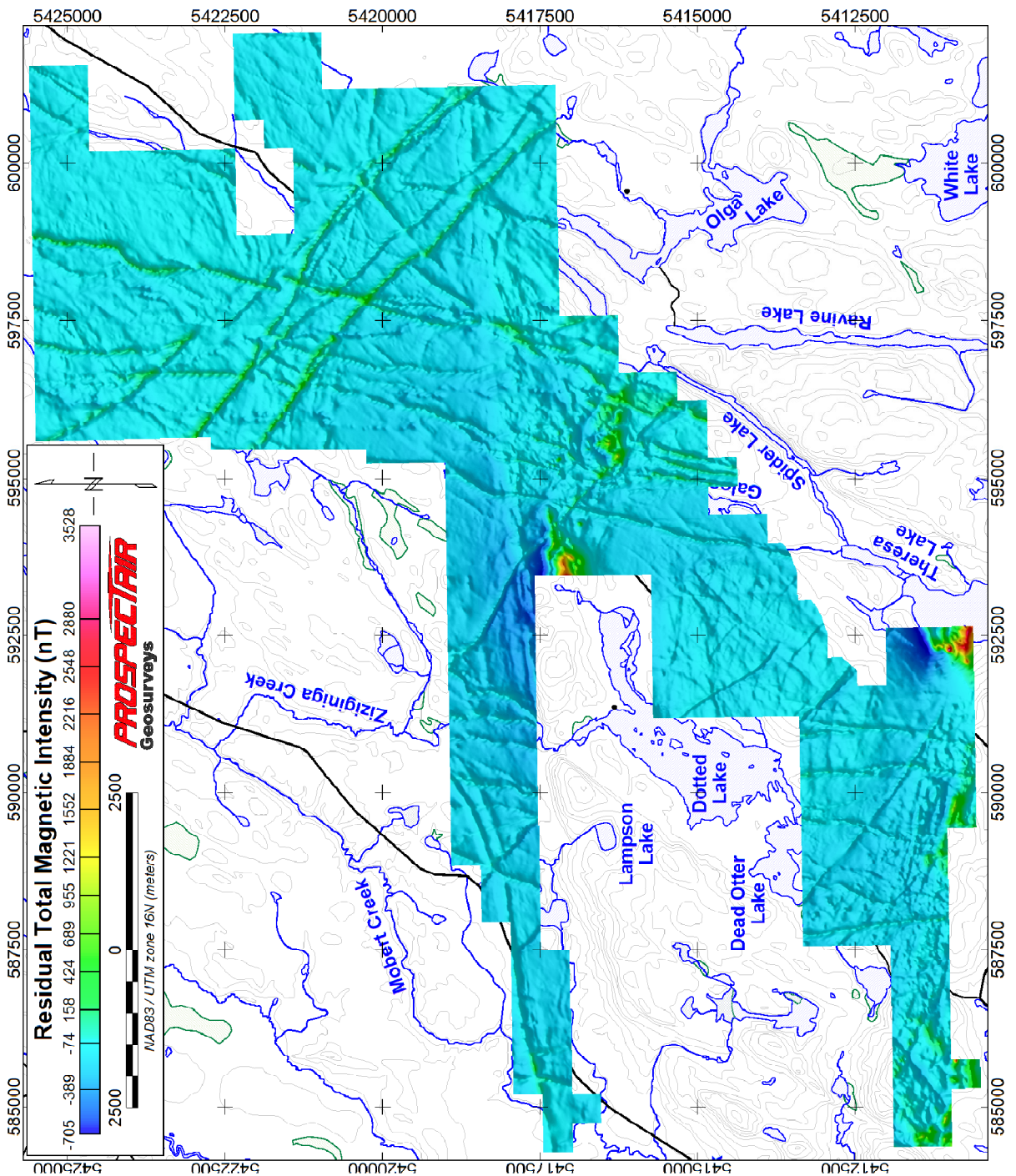


Figure 8: First Vertical Derivative of TMI

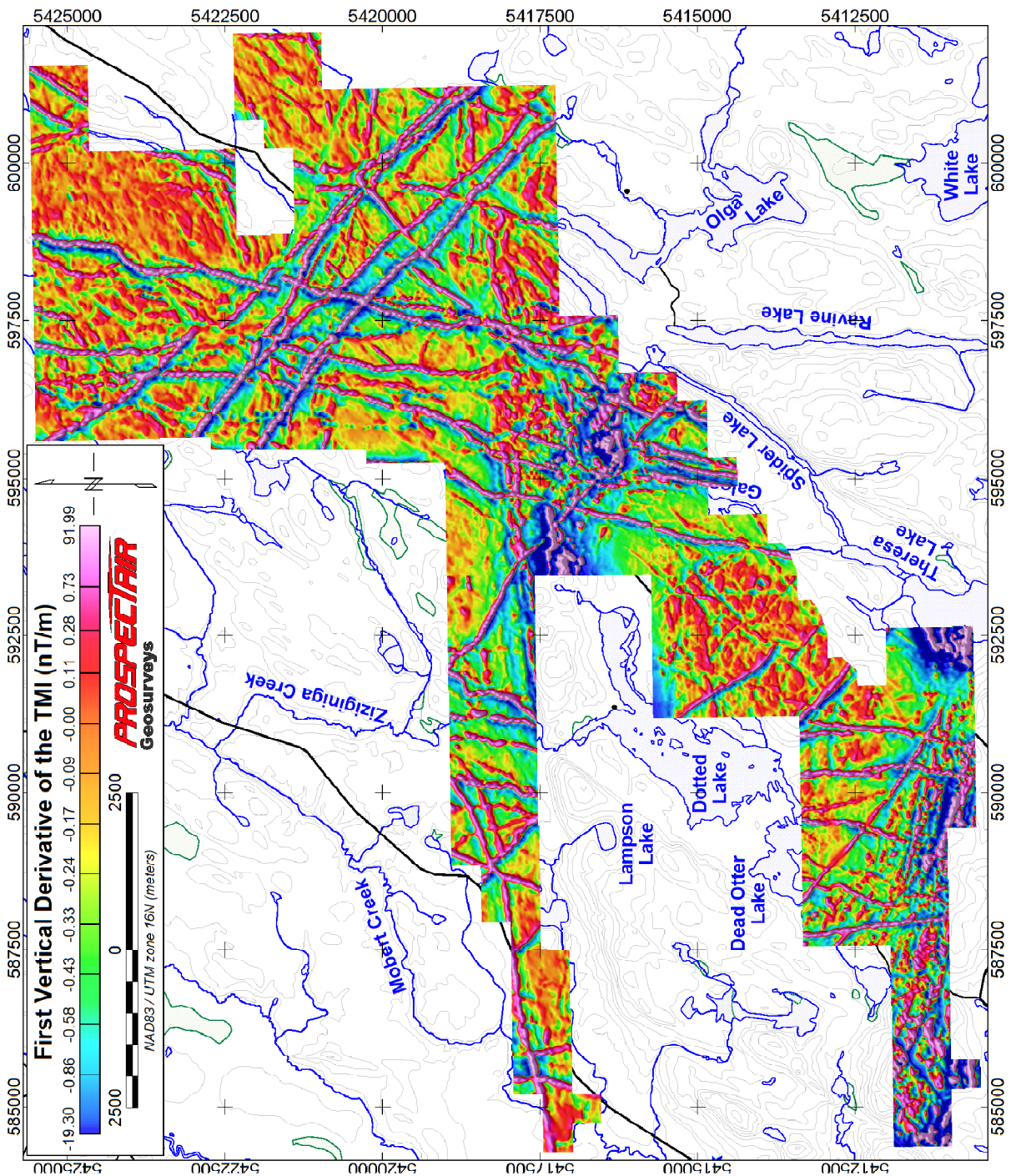
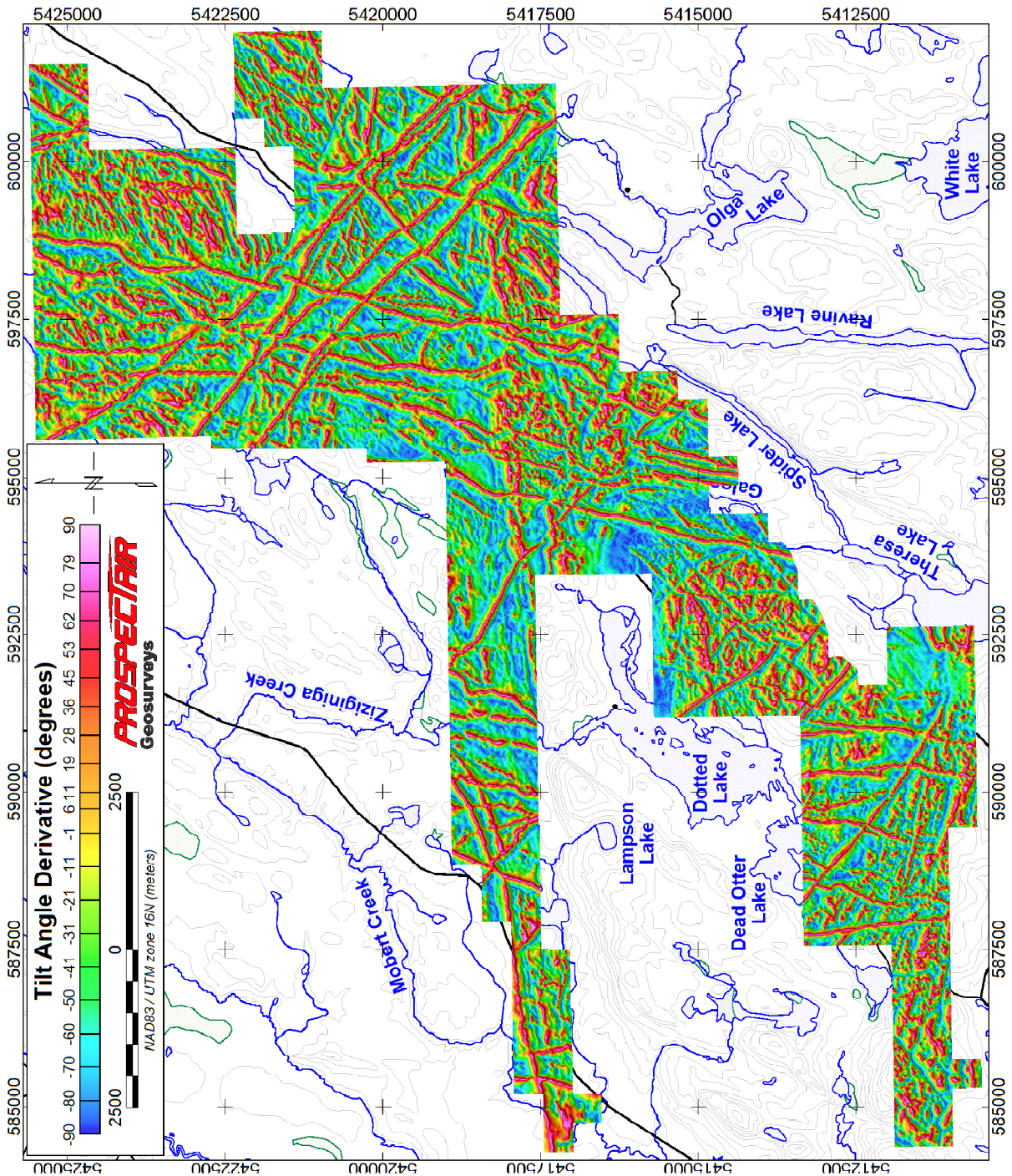


Figure 9: Tilt Angle Derivative



VIII. FINAL PRODUCTS

Digital Line Data

The Geosoft database is provided with the channels detailed in Table 3.

Table 3: **MAG line data channels**

No.	Name	Description	Units
1	UTM_X	UTM Easting, NAD-83, Zone 16N	m
2	UTM_Y	UTM Northing, NAD-83, Zone 16N	m
3	Lat_deg	Latitude in decimal degrees	Deg
4	Long_deg	Longitude in decimal degrees	Deg
5	Gtm_sec	Second since midnight GMT	Sec
6	Radar	Ground clearance given by the radar altimeter	m
7	Terrain	Calculated Digital Elevation Model (w.r.t. MSL)	m
8	GPS_Z	Helicopter altitude (w.r.t. MSL)	m
9	Mag_Raw	Raw magnetic data	nT
10	Mag_Lag	Lagged magnetic data	nT
11	Gnd_mag	Base station magnetic data	nT
12	Mag_Cor	Magnetic data corrected for diurnal variation	nT
13	TMI	Fully levelled Total Magnetic Intensity	nT
14	TMIres	Residual TMI (IGRF removed)	nT

Maps

All maps are referred to NAD-83 datum in the UTM projection Zone 16 North, with coordinates in metres. Maps are at a 1:20,000 scale and are provided in PDF, PNG and Geosoft MAP formats for the products detailed in Table 4.

Table 4: **Maps delivered**

No.	Name	Description
1	DEM+FlightPath+Claims	Digital Elevation Model with flight path and property claims
2	TMI	Residual Total Magnetic Intensity
3	FVD	First Vertical Derivative of the TMI
4	TILT	Tilt Angle Derivative

Grids

All grids are referred to NAD-83 in the UTM projection Zone 16 North, with coordinates in metres. Grids are provided in Geosoft GRD format, with a 10 m grid cell size, as well as in the Geotiff format for the products listed in Table 5.

Table 5: **Grids delivered**

No.	Name	Description	Units
1	Terrain	Calculated Digital Elevation Model	m
2	TMI	Total Magnetic Intensity	nT
3	FVD	First Vertical Derivative of TMI	nT/m
4	SVD	Second Vertical Derivative of TMI	nT/m ²
5	TMIres	Residual TMI (IGRF removed)	nT
6	TILT	Tilt Angle Derivative	Degree

Project Report

The report is submitted in PDF format.

Respectfully submitted,




Joël Dubé, P.Eng.

June 23, 2022

IX. STATEMENT OF QUALIFICATIONS

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I, Joël Dubé, P.Eng., do hereby certify that:

1. I am a Professional Engineer specialized in geophysics, President of Dynamic Discovery Geoscience Ltd., registered in Canada.
2. I earned a Bachelor of Engineering in Geological Engineering in 1999 from the École Polytechnique de Montréal.
3. I am an Engineer registered with the Ordre des Ingénieurs du Québec, No. 122937, and a Professional Engineer with Professional Engineers Ontario, No. 100194954 (CofA No. 100219617), with the Association of Professional Engineers and Geoscientists of New Brunswick, No. L5202 (CofA No. F1853), with the Association of Professional Engineers of Nova Scotia, No. 11915 (CofC No. 51099), with Engineers Geoscientists Manitoba, No. 43414. (CofA No. 6897), with Professional Engineers & Geoscientists Newfoundland & Labrador, No. 10012 (PtoP No. N1134) and with the Northwest Territories Association of Professional Engineers & Geoscientists, No. L4447 (PtoP No. P1414).
4. I have practised my profession for 23 years in exploration geophysics.
5. I have not received and do not expect to receive a direct or indirect interest in the properties covered by this report.

Dated this 23rd day of June, 2022




Joël Dubé, P.Eng. #100194954

X. Appendix A – Survey block outline

North Hemlo Block

Easting	Northing
592636	5410622
589421	5410570
589413	5411033
585750	5410975
585757	5410512
585294	5410505
585287	5410968
584369	5410954
584355	5411886
587565	5411935
587543	5413324
591210	5413383
591172	5415699
593463	5415737
593432	5417585
587483	5417488
587490	5417025
585200	5416989
585207	5416526
584744	5416519
584736	5416982
584278	5416975
584271	5417444
585187	5417458
585180	5417921
587928	5417963
587921	5418426
588837	5418441
588829	5418904
595240	5419010
595218	5420256
595442	5420257
595442	5422720
595634	5422723
595586	5425502
601537	5425608
601554	5424676
600181	5424652
600223	5422336
598850	5422311
598867	5421390
600235	5421414
600226	5421878
600684	5421886

600676	5422349
602054	5422374
602079	5420979
601164	5420963
601231	5417257
597567	5417192
597583	5416266
596667	5416250
596683	5415323
596225	5415316
596233	5414852
595316	5414837
595324	5414384
595295	5414373
594861	5414366
594853	5414829
594400	5414821
594415	5413900
594402	5413894
593957	5413887
593961	5413662
593858	5413577
593776	5413527
593483	5413416
593048	5413409
593052	5413196
592941	5413107
592858	5413059
592525	5412936
592139	5412930
592143	5412699
591926	5412463
591688	5412459
591696	5412001
592613	5412017

XI. Appendix B – Property claims covered by the survey

Tenure number	Holder	l-km within claim
593734	(100) First Class Metals Canada Inc.	5.894
593721	(100) First Class Metals Canada Inc.	5.894
593723	(100) First Class Metals Canada Inc.	5.894
593726	(100) First Class Metals Canada Inc.	5.894
593720	(100) First Class Metals Canada Inc.	5.894
593724	(100) First Class Metals Canada Inc.	5.894
593725	(100) First Class Metals Canada Inc.	5.894
593722	(100) First Class Metals Canada Inc.	5.894
593728	(100) First Class Metals Canada Inc.	5.894
593730	(100) First Class Metals Canada Inc.	5.894
593733	(100) First Class Metals Canada Inc.	5.894
593727	(100) First Class Metals Canada Inc.	5.894
593731	(100) First Class Metals Canada Inc.	5.894
593732	(100) First Class Metals Canada Inc.	5.894
593729	(100) First Class Metals Canada Inc.	5.894
600783	(100) First Class Metals Canada Inc.	5.886
600789	(100) First Class Metals Canada Inc.	5.889
600792	(100) First Class Metals Canada Inc.	5.886
600780	(100) First Class Metals Canada Inc.	5.886
600787	(100) First Class Metals Canada Inc.	5.889
600800	(100) First Class Metals Canada Inc.	5.886
600803	(100) First Class Metals Canada Inc.	5.889
600777	(100) First Class Metals Canada Inc.	5.889
600781	(100) First Class Metals Canada Inc.	5.889
600804	(100) First Class Metals Canada Inc.	5.889
600784	(100) First Class Metals Canada Inc.	5.889
600790	(100) First Class Metals Canada Inc.	5.889
600794	(100) First Class Metals Canada Inc.	5.889
600778	(100) First Class Metals Canada Inc.	5.889
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600788	(100) First Class Metals Canada Inc.	5.889
600791	(100) First Class Metals Canada Inc.	5.889
600795	(100) First Class Metals Canada Inc.	5.889
600797	(100) First Class Metals Canada Inc.	5.889
600799	(100) First Class Metals Canada Inc.	5.889
600786	(100) First Class Metals Canada Inc.	5.889
600793	(100) First Class Metals Canada Inc.	5.889
600798	(100) First Class Metals Canada Inc.	5.889
600802	(100) First Class Metals Canada Inc.	5.889
600782	(100) First Class Metals Canada Inc.	5.889
600796	(100) First Class Metals Canada Inc.	5.889
600801	(100) First Class Metals Canada Inc.	5.889
600779	(100) First Class Metals Canada Inc.	5.889
563494	(100) First Class Metals Canada Inc.	5.894
563477	(100) First Class Metals Canada Inc.	5.894
563479	(100) First Class Metals Canada Inc.	5.894
563487	(100) First Class Metals Canada Inc.	5.894
563492	(100) First Class Metals Canada Inc.	5.894

Tenure number	Holder	l-km within claim
563493	(100) First Class Metals Canada Inc.	5.894
563495	(100) First Class Metals Canada Inc.	5.894
563496	(100) First Class Metals Canada Inc.	5.894
563486	(100) First Class Metals Canada Inc.	5.894
563488	(100) First Class Metals Canada Inc.	5.894
563490	(100) First Class Metals Canada Inc.	5.894
563481	(100) First Class Metals Canada Inc.	5.894
563489	(100) First Class Metals Canada Inc.	5.894
563491	(100) First Class Metals Canada Inc.	5.894
563469	(100) First Class Metals Canada Inc.	5.894
563471	(100) First Class Metals Canada Inc.	5.894
563459	(100) First Class Metals Canada Inc.	5.894
563464	(100) First Class Metals Canada Inc.	5.894
563465	(100) First Class Metals Canada Inc.	5.894
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563457	(100) First Class Metals Canada Inc.	5.894
563460	(100) First Class Metals Canada Inc.	5.894
563458	(100) First Class Metals Canada Inc.	5.894
563461	(100) First Class Metals Canada Inc.	5.894
563466	(100) First Class Metals Canada Inc.	5.894
563467	(100) First Class Metals Canada Inc.	5.894
563480	(100) First Class Metals Canada Inc.	5.894
563482	(100) First Class Metals Canada Inc.	5.894
563485	(100) First Class Metals Canada Inc.	5.894
563498	(100) First Class Metals Canada Inc.	5.894
563473	(100) First Class Metals Canada Inc.	5.894
563474	(100) First Class Metals Canada Inc.	5.894
563456	(100) First Class Metals Canada Inc.	5.894
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563483	(100) First Class Metals Canada Inc.	5.894
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563497	(100) First Class Metals Canada Inc.	5.894
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619214	(100) First Class Metals Canada Inc.	5.889
619202	(100) First Class Metals Canada Inc.	5.889

Tenure number	Holder	l-km within claim
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619221	(100) First Class Metals Canada Inc.	5.889
619207	(100) First Class Metals Canada Inc.	5.889
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621903	(100) First Class Metals Canada Inc.	5.892
621875	(100) First Class Metals Canada Inc.	5.892
621881	(100) First Class Metals Canada Inc.	5.892
621886	(100) First Class Metals Canada Inc.	5.889
621889	(100) First Class Metals Canada Inc.	5.892
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621891	(100) First Class Metals Canada Inc.	5.892
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621882	(100) First Class Metals Canada Inc.	5.892
621898	(100) First Class Metals Canada Inc.	5.892
621901	(100) First Class Metals Canada Inc.	5.892
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621879	(100) First Class Metals Canada Inc.	5.892
621883	(100) First Class Metals Canada Inc.	5.892
621885	(100) First Class Metals Canada Inc.	5.892
621888	(100) First Class Metals Canada Inc.	5.892
621892	(100) First Class Metals Canada Inc.	5.892
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623992	(100) First Class Metals Canada Inc.	5.883
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623967	(100) First Class Metals Canada Inc.	5.883
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623981	(100) First Class Metals Canada Inc.	5.883
623962	(100) First Class Metals Canada Inc.	5.886
623993	(100) First Class Metals Canada Inc.	5.886
623994	(100) First Class Metals Canada Inc.	5.886
623975	(100) First Class Metals Canada Inc.	5.886
623985	(100) First Class Metals Canada Inc.	5.886

Tenure number	Holder	l-km within claim
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623991	(100) First Class Metals Canada Inc.	5.886
623964	(100) First Class Metals Canada Inc.	5.886
623968	(100) First Class Metals Canada Inc.	5.886
623976	(100) First Class Metals Canada Inc.	5.886
623965	(100) First Class Metals Canada Inc.	5.886
623977	(100) First Class Metals Canada Inc.	5.886
623980	(100) First Class Metals Canada Inc.	5.886
623970	(100) First Class Metals Canada Inc.	5.886
623956	(100) First Class Metals Canada Inc.	5.886
623982	(100) First Class Metals Canada Inc.	5.886
623989	(100) First Class Metals Canada Inc.	5.886
623958	(100) First Class Metals Canada Inc.	5.886
623961	(100) First Class Metals Canada Inc.	5.886
623979	(100) First Class Metals Canada Inc.	5.886
623990	(100) First Class Metals Canada Inc.	5.886
623978	(100) First Class Metals Canada Inc.	5.886
623996	(100) First Class Metals Canada Inc.	5.886
623997	(100) First Class Metals Canada Inc.	5.886
623957	(100) First Class Metals Canada Inc.	5.886
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623963	(100) First Class Metals Canada Inc.	5.886
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623972	(100) First Class Metals Canada Inc.	5.889
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623971	(100) First Class Metals Canada Inc.	5.889
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623987	(100) First Class Metals Canada Inc.	5.889
623969	(100) First Class Metals Canada Inc.	5.889
624162	(100) First Class Metals Canada Inc.	5.883
624163	(100) First Class Metals Canada Inc.	5.883
624164	(100) First Class Metals Canada Inc.	5.883
624167	(100) First Class Metals Canada Inc.	5.886
624165	(100) First Class Metals Canada Inc.	5.886
624166	(100) First Class Metals Canada Inc.	5.886
624168	(100) First Class Metals Canada Inc.	5.886
624170	(100) First Class Metals Canada Inc.	5.886
624169	(100) First Class Metals Canada Inc.	5.886
624171	(100) First Class Metals Canada Inc.	5.886
624172	(100) First Class Metals Canada Inc.	5.886
631652	(100) First Class Metals Canada Inc.	5.886
631648	(100) First Class Metals Canada Inc.	5.883
631655	(100) First Class Metals Canada Inc.	5.886
631651	(100) First Class Metals Canada Inc.	5.886
631653	(100) First Class Metals Canada Inc.	5.886
631649	(100) First Class Metals Canada Inc.	5.886
631654	(100) First Class Metals Canada Inc.	5.886
631650	(100) First Class Metals Canada Inc.	5.886
631662	(100) First Class Metals Canada Inc.	5.889
631665	(100) First Class Metals Canada Inc.	5.889

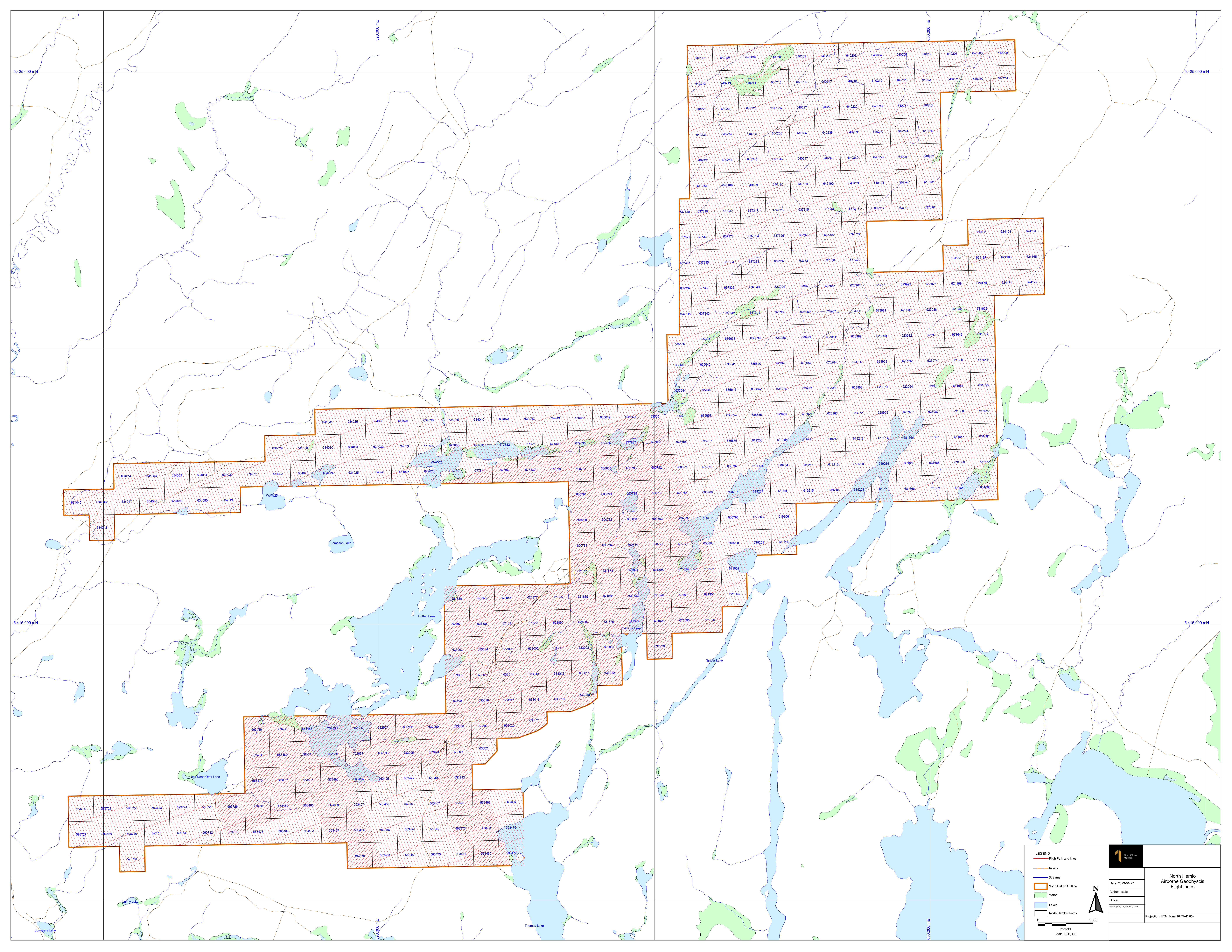
Tenure number	Holder	l-km within claim
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631660	(100) First Class Metals Canada Inc.	5.889
631656	(100) First Class Metals Canada Inc.	5.889
631661	(100) First Class Metals Canada Inc.	5.889
631664	(100) First Class Metals Canada Inc.	5.889
631657	(100) First Class Metals Canada Inc.	5.889
631667	(100) First Class Metals Canada Inc.	5.889
631663	(100) First Class Metals Canada Inc.	5.889
631666	(100) First Class Metals Canada Inc.	5.889
631659	(100) First Class Metals Canada Inc.	5.889
631669	(100) First Class Metals Canada Inc.	5.889
632033	(100) First Class Metals Canada Inc.	5.889
633021	(100) First Class Metals Canada Inc.	4.418
633020	(100) First Class Metals Canada Inc.	4.604
633024	(100) First Class Metals Canada Inc.	5.192
633022	(100) First Class Metals Canada Inc.	5.869
633019	(100) First Class Metals Canada Inc.	5.889
633001	(100) First Class Metals Canada Inc.	5.892
633016	(100) First Class Metals Canada Inc.	5.892
633017	(100) First Class Metals Canada Inc.	5.892
633018	(100) First Class Metals Canada Inc.	5.892
633010	(100) First Class Metals Canada Inc.	5.892
633003	(100) First Class Metals Canada Inc.	5.892
633008	(100) First Class Metals Canada Inc.	5.892
633004	(100) First Class Metals Canada Inc.	5.892
633005	(100) First Class Metals Canada Inc.	5.892
633006	(100) First Class Metals Canada Inc.	5.892
633007	(100) First Class Metals Canada Inc.	5.892
633009	(100) First Class Metals Canada Inc.	5.892
633002	(100) First Class Metals Canada Inc.	5.892
633011	(100) First Class Metals Canada Inc.	5.892
633012	(100) First Class Metals Canada Inc.	5.892
633013	(100) First Class Metals Canada Inc.	5.892
633014	(100) First Class Metals Canada Inc.	5.892
633015	(100) First Class Metals Canada Inc.	5.892
632992	(100) First Class Metals Canada Inc.	5.894
633000	(100) First Class Metals Canada Inc.	5.894
632997	(100) First Class Metals Canada Inc.	5.894
632998	(100) First Class Metals Canada Inc.	5.894
632999	(100) First Class Metals Canada Inc.	5.894
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632993	(100) First Class Metals Canada Inc.	5.894
632994	(100) First Class Metals Canada Inc.	5.894
632995	(100) First Class Metals Canada Inc.	5.894
632996	(100) First Class Metals Canada Inc.	5.894
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634025	(100) First Class Metals Canada Inc.	5.886
634053	(100) First Class Metals Canada Inc.	5.886
634021	(100) First Class Metals Canada Inc.	5.886
634022	(100) First Class Metals Canada Inc.	5.886

Tenure number	Holder	l-km within claim
634023	(100) First Class Metals Canada Inc.	5.886
634024	(100) First Class Metals Canada Inc.	5.886
634026	(100) First Class Metals Canada Inc.	5.886
634027	(100) First Class Metals Canada Inc.	5.886
634051	(100) First Class Metals Canada Inc.	5.886
634052	(100) First Class Metals Canada Inc.	5.886
634054	(100) First Class Metals Canada Inc.	5.886
634035	(100) First Class Metals Canada Inc.	5.889
634039	(100) First Class Metals Canada Inc.	5.889
634034	(100) First Class Metals Canada Inc.	5.889
634036	(100) First Class Metals Canada Inc.	5.889
634037	(100) First Class Metals Canada Inc.	5.889
634038	(100) First Class Metals Canada Inc.	5.889
634040	(100) First Class Metals Canada Inc.	5.889
634041	(100) First Class Metals Canada Inc.	5.889
634042	(100) First Class Metals Canada Inc.	5.889
634043	(100) First Class Metals Canada Inc.	5.889
634031	(100) First Class Metals Canada Inc.	5.889
634028	(100) First Class Metals Canada Inc.	5.889
634029	(100) First Class Metals Canada Inc.	5.889
634030	(100) First Class Metals Canada Inc.	5.889
634032	(100) First Class Metals Canada Inc.	5.889
634033	(100) First Class Metals Canada Inc.	5.889
634019	(100) First Class Metals Canada Inc.	5.889
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634045	(100) First Class Metals Canada Inc.	5.889
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634050	(100) First Class Metals Canada Inc.	5.889
634047	(100) First Class Metals Canada Inc.	5.889
634044	(100) First Class Metals Canada Inc.	5.889
635636	(100) First Class Metals Canada Inc.	4.981
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635646	(100) First Class Metals Canada Inc.	5.886
635647	(100) First Class Metals Canada Inc.	5.886
635644	(100) First Class Metals Canada Inc.	5.886
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635638	(100) First Class Metals Canada Inc.	5.886
635639	(100) First Class Metals Canada Inc.	5.886
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635648	(100) First Class Metals Canada Inc.	5.889
635651	(100) First Class Metals Canada Inc.	5.889
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635654	(100) First Class Metals Canada Inc.	5.889
635655	(100) First Class Metals Canada Inc.	5.889
635652	(100) First Class Metals Canada Inc.	5.889

Tenure number	Holder	l-km within claim
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635659	(100) First Class Metals Canada Inc.	5.889
635656	(100) First Class Metals Canada Inc.	5.889
635658	(100) First Class Metals Canada Inc.	5.889
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637321	(100) First Class Metals Canada Inc.	2.620
637336	(100) First Class Metals Canada Inc.	2.725
637337	(100) First Class Metals Canada Inc.	2.828
637344	(100) First Class Metals Canada Inc.	2.928
637322	(100) First Class Metals Canada Inc.	5.883
637325	(100) First Class Metals Canada Inc.	5.883
637328	(100) First Class Metals Canada Inc.	5.883
637323	(100) First Class Metals Canada Inc.	5.883
637324	(100) First Class Metals Canada Inc.	5.883
637326	(100) First Class Metals Canada Inc.	5.883
637327	(100) First Class Metals Canada Inc.	5.883
637311	(100) First Class Metals Canada Inc.	5.883
637313	(100) First Class Metals Canada Inc.	5.883
637316	(100) First Class Metals Canada Inc.	5.883
637319	(100) First Class Metals Canada Inc.	5.883
637310	(100) First Class Metals Canada Inc.	5.883
637314	(100) First Class Metals Canada Inc.	5.883
637315	(100) First Class Metals Canada Inc.	5.883
637317	(100) First Class Metals Canada Inc.	5.883
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637342	(100) First Class Metals Canada Inc.	5.883
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637330	(100) First Class Metals Canada Inc.	5.886
637331	(100) First Class Metals Canada Inc.	5.886
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637334	(100) First Class Metals Canada Inc.	5.886
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637339	(100) First Class Metals Canada Inc.	5.886
637340	(100) First Class Metals Canada Inc.	5.886
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640215	(100) First Class Metals Canada Inc.	5.881
640218	(100) First Class Metals Canada Inc.	5.881
640220	(100) First Class Metals Canada Inc.	5.881
640211	(100) First Class Metals Canada Inc.	5.881
640213	(100) First Class Metals Canada Inc.	5.881
640214	(100) First Class Metals Canada Inc.	5.881
640216	(100) First Class Metals Canada Inc.	5.881
640217	(100) First Class Metals Canada Inc.	5.881
640221	(100) First Class Metals Canada Inc.	5.881
640222	(100) First Class Metals Canada Inc.	5.881

Tenure number	Holder	l-km within claim
640219	(100) First Class Metals Canada Inc.	5.881
640197	(100) First Class Metals Canada Inc.	5.881
640200	(100) First Class Metals Canada Inc.	5.881
640203	(100) First Class Metals Canada Inc.	5.881
640205	(100) First Class Metals Canada Inc.	5.881
640208	(100) First Class Metals Canada Inc.	5.881
640198	(100) First Class Metals Canada Inc.	5.881
640199	(100) First Class Metals Canada Inc.	5.881
640201	(100) First Class Metals Canada Inc.	5.881
640202	(100) First Class Metals Canada Inc.	5.881
640206	(100) First Class Metals Canada Inc.	5.881
640207	(100) First Class Metals Canada Inc.	5.881
640209	(100) First Class Metals Canada Inc.	5.881
640204	(100) First Class Metals Canada Inc.	5.881
640243	(100) First Class Metals Canada Inc.	5.881
640246	(100) First Class Metals Canada Inc.	5.881
640249	(100) First Class Metals Canada Inc.	5.881
640251	(100) First Class Metals Canada Inc.	5.881
640244	(100) First Class Metals Canada Inc.	5.881
640245	(100) First Class Metals Canada Inc.	5.881
640247	(100) First Class Metals Canada Inc.	5.881
640248	(100) First Class Metals Canada Inc.	5.881
640252	(100) First Class Metals Canada Inc.	5.881
640250	(100) First Class Metals Canada Inc.	5.881
640223	(100) First Class Metals Canada Inc.	5.883
640226	(100) First Class Metals Canada Inc.	5.883
640229	(100) First Class Metals Canada Inc.	5.883
640231	(100) First Class Metals Canada Inc.	5.883
640224	(100) First Class Metals Canada Inc.	5.883
640225	(100) First Class Metals Canada Inc.	5.883
640227	(100) First Class Metals Canada Inc.	5.883
640228	(100) First Class Metals Canada Inc.	5.883
640232	(100) First Class Metals Canada Inc.	5.883
640230	(100) First Class Metals Canada Inc.	5.883
640233	(100) First Class Metals Canada Inc.	5.883
640236	(100) First Class Metals Canada Inc.	5.883
640239	(100) First Class Metals Canada Inc.	5.883
640241	(100) First Class Metals Canada Inc.	5.883
640234	(100) First Class Metals Canada Inc.	5.883
640235	(100) First Class Metals Canada Inc.	5.883
640237	(100) First Class Metals Canada Inc.	5.883
640238	(100) First Class Metals Canada Inc.	5.883
640242	(100) First Class Metals Canada Inc.	5.883
640240	(100) First Class Metals Canada Inc.	5.883
640187	(100) First Class Metals Canada Inc.	5.883
640190	(100) First Class Metals Canada Inc.	5.883
640193	(100) First Class Metals Canada Inc.	5.883
640195	(100) First Class Metals Canada Inc.	5.883
640188	(100) First Class Metals Canada Inc.	5.883
640189	(100) First Class Metals Canada Inc.	5.883
640191	(100) First Class Metals Canada Inc.	5.883

Tenure number	Holder	l-km within claim
640192	(100) First Class Metals Canada Inc.	5.883
640196	(100) First Class Metals Canada Inc.	5.883
640194	(100) First Class Metals Canada Inc.	5.883
677827	(100) First Class Metals Canada Inc.	5.886
677828	(100) First Class Metals Canada Inc.	5.886
677838	(100) First Class Metals Canada Inc.	5.886
677839	(100) First Class Metals Canada Inc.	5.886
677840	(100) First Class Metals Canada Inc.	5.886
677841	(100) First Class Metals Canada Inc.	5.886
677830	(100) First Class Metals Canada Inc.	5.889
677835	(100) First Class Metals Canada Inc.	5.889
677829	(100) First Class Metals Canada Inc.	5.889
677831	(100) First Class Metals Canada Inc.	5.889
677832	(100) First Class Metals Canada Inc.	5.889
677833	(100) First Class Metals Canada Inc.	5.889
677834	(100) First Class Metals Canada Inc.	5.889
677836	(100) First Class Metals Canada Inc.	5.889
677837	(100) First Class Metals Canada Inc.	5.889
702854	(100) First Class Metals Canada Inc.	5.894
702855	(100) First Class Metals Canada Inc.	5.894
702856	(100) First Class Metals Canada Inc.	5.894
702857	(100) First Class Metals Canada Inc.	5.894



LEGEND

- Flight Path and lines
- Roads
- Streams
- North Hemlo Outline
- Marsh
- Lakes
- North Hemlo Claims

0 1000
meters
Scale 1:20,000

First Coast Metals

North Hemlo Airborne Geophysics Flight Lines

Date: 2023-01-27
 Author: csalo
 Office:
 Drawing: 01_Flight_Lines

Projection: UTM Zone 16 (NAD 83)