

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

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

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

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

Grass Roots Prospecting
Report Makada Lake Project
Waters Township

Sudbury Mining Division
Northeastern Ontario
UTM Zone 17T- NAD 83

Frank C. Racicot P. Geo
Sudbury, Ontario

(705) 691-5920
May 22, 2019

Table of Contents

Page

1.0	INTRODUCTION	1
2.0	LOCATION	1
3.0	CLAIM OWNERSHIP	1
	Figure 1	2
	Figure 2	3
	Figure 3	4
	Client Report (From MLAS web site)	5
4.0	TOPOGRAPHY AND VEGETATION	8
5.0	PREVIOUS WORK	8
6.0	GENERALIZED REGIONAL GEOLOGY	10
7.0	GENERALIZED PROPERTY GEOLOGY	10
8.0	DAILY LOG AND FIELD RESULTS	10
	Photos of Sudbury Breccia	11
9.0	SUMMARY AND RECOMMENDATIONS	12
10.0	REFERENCES	13
9.0	STATEMENT OF QUALIFICATIONS	14
10.0	APPENDIX 1 (Traverse Routes and results)	15
	Traverse Map	16

1.0 INTRODUCTION

Frank Racicot, P. Geo was employed to do some grass roots prospecting field work on claims in Waters Township held by Marietta Kosovsky. Based on Racicot's previous experience with the Foy and Hess Offset dykes (aka Quartz Diorite or QD dykes) located to the north, and the limited budget, it was decided to do a traverse across the northern part of the claim block. In one area north of Cartier where the Foy and Hess QD dykes are located, 5-10 QD boulders were found in low lying areas, indicating the beneficial effects of a scouring glacier.

Since QD dykes are often structurally related, additional time was spent looking for outcrops, or boulders, in some of the main northeast trending lineaments that were observed on Google Earth. As well, some smaller lineaments or guts too small to be seen on the Google Earth image were investigated.

Added to that is the fact that it appears there was much less work done on the northern part of the claim block, if any, it seemed logical to do a prospecting traverse across the northern claims.

2) LOCATION

The claims and traverse area are located in Waters Township in the Sudbury Mining Division, west of Sudbury Ontario. The claims can be reached by travelling about 5-10 minutes west from Sudbury on old Highway 17 (now Regional road 55) to the town of Lively. One then turns left on Black Lake Road, proceeding south for about 3.8 km and then turning west onto the North Shore Black Lake Road. The main traverse initiated from the intersection of North Shore Black Lake Road and Clark Road.

Figure 1 shows the location of the property in Ontario. Figure 2 shows the location of Waters Township in relation to other townships, main highways and railways and Sudbury. Figure 3 shows the location of Makada Lake, relative to Lively.

3) CLAIM OWNERSHIP

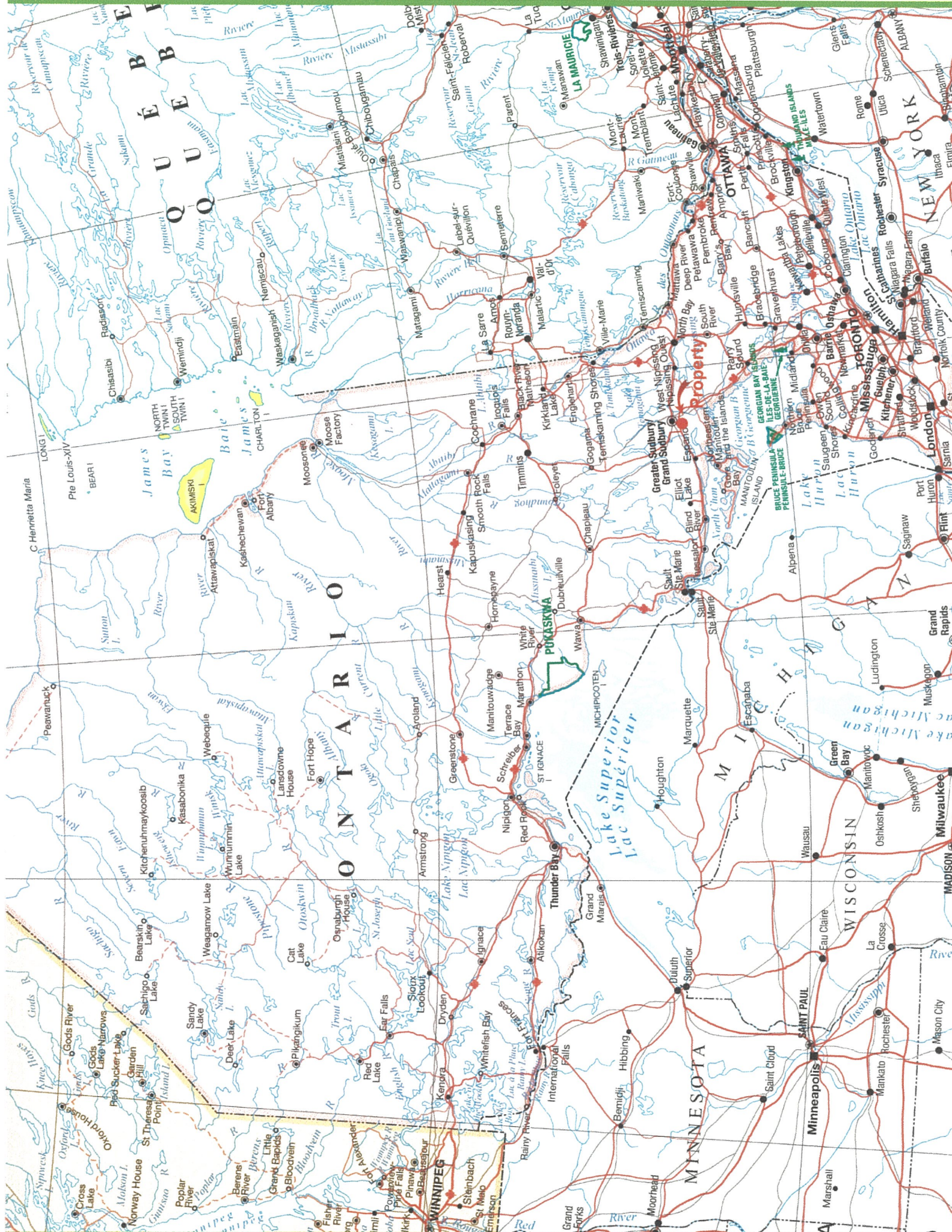
The claims are currently held by Marietta Kosovsky:

510 Gay St, Apt 200
Nashville, Tennessee, USA
372219

Client No. 392366

Since 2018, the claim units and numbering system has changed because map staking is now in effect in Ontario. Currently 13 claims cover the property, four of which are boundary claims.

The following table printed from the MNDM's MLAS site lists and summarizes the old legacy claim numbers, the new numbering system and all relevant data. There are multiple listing of the same claim number due to the fact that the original legacy claims were bigger and/or did not exactly overlap the new claim numbers.



Map showing the Great Lakes region, including parts of Ontario, Canada, and the US states of Minnesota, Wisconsin, and New York. Major cities like Toronto, Ottawa, and Milwaukee are marked. The map includes a grid of latitude and longitude lines, a coordinate reference system, and various geographical features like rivers and lakes.

QUEBEC

ONTARIO

MINNESOTA

WISCONSIN

NEW YORK

JAMES BAY

Lake Superior
Lac Supérieur

Lake Michigan
Lac Michigan

LA MAURICIE

PUCASKWA

MINNESOTA

WISCONSIN

NEW YORK

JAMES BAY

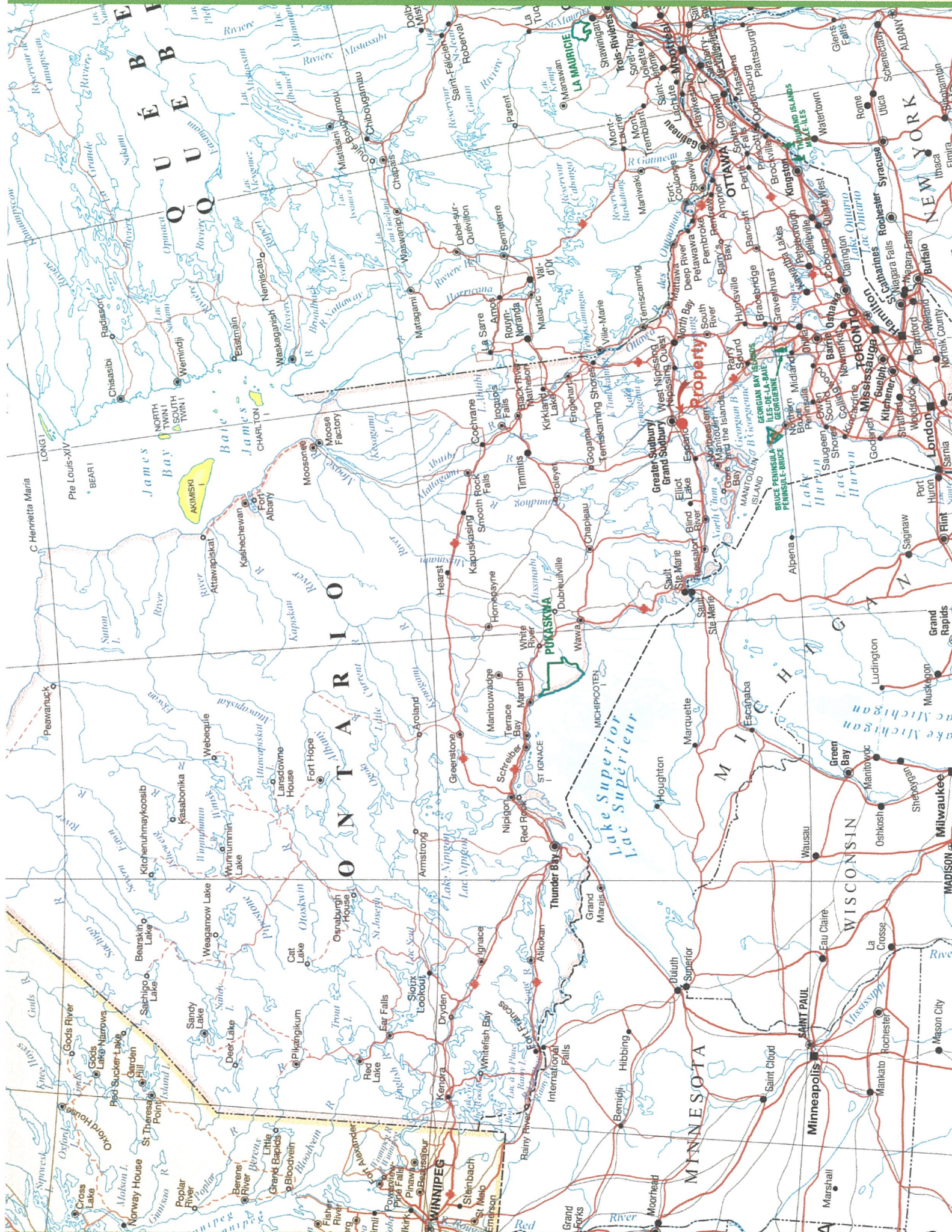
Lake Superior
Lac Supérieur

Lake Michigan
Lac Michigan

LA MAURICIE

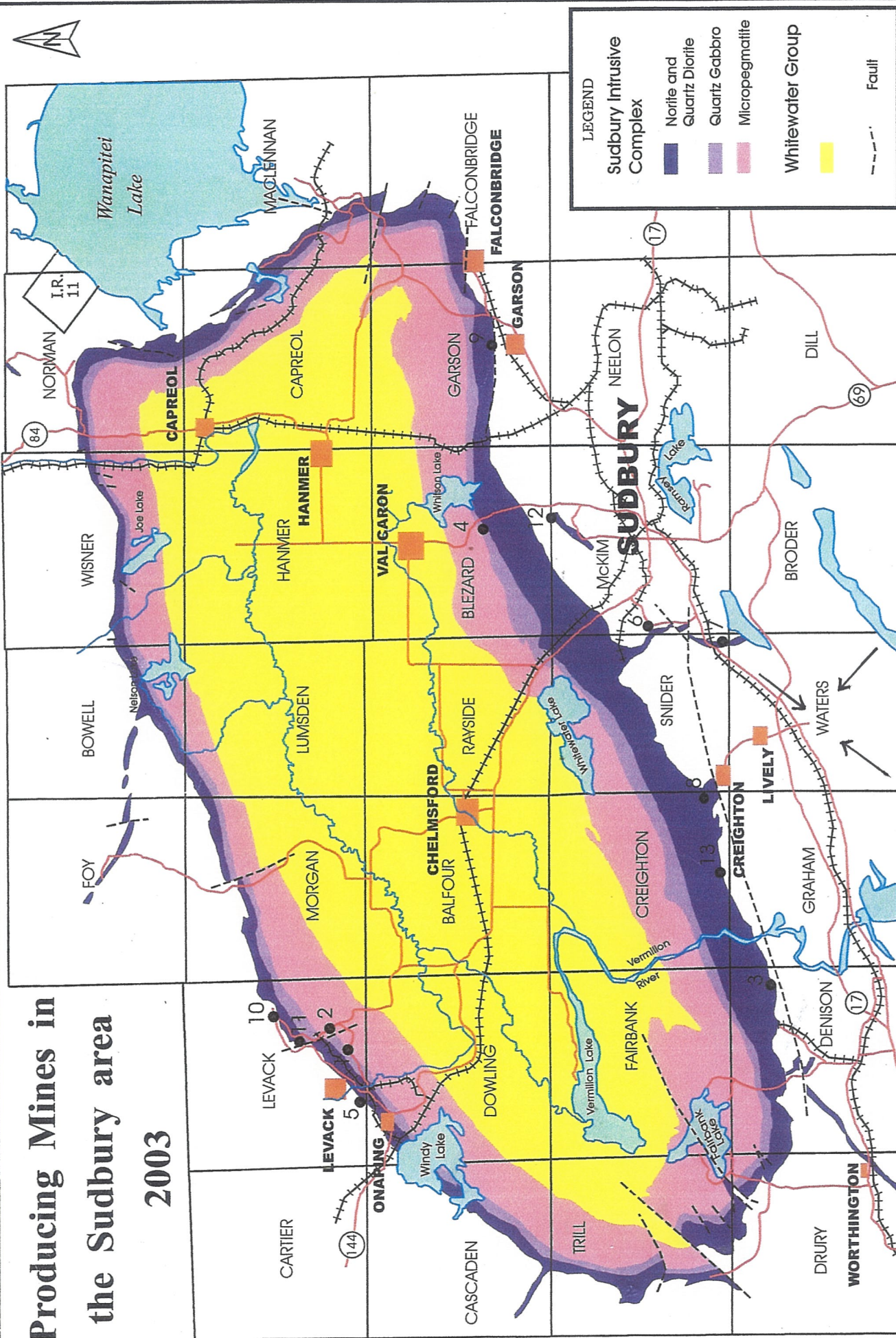
PUCASKWA

PROPERTY



Producing Mines in the Sudbury area

2003



Falconbridge Ltd.
(Ni, Cu, Co, Au, Ag, PGE, H₂SO₄)

- Craig - Onaping
- Fraser - Strathcona
- Lockerby
- Thayer Lindsey

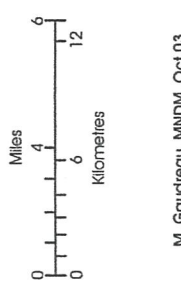
FNX Mining Company Inc. / Dynatec Corp.
(Ni, Cu, PGE)

- McCreeedy West

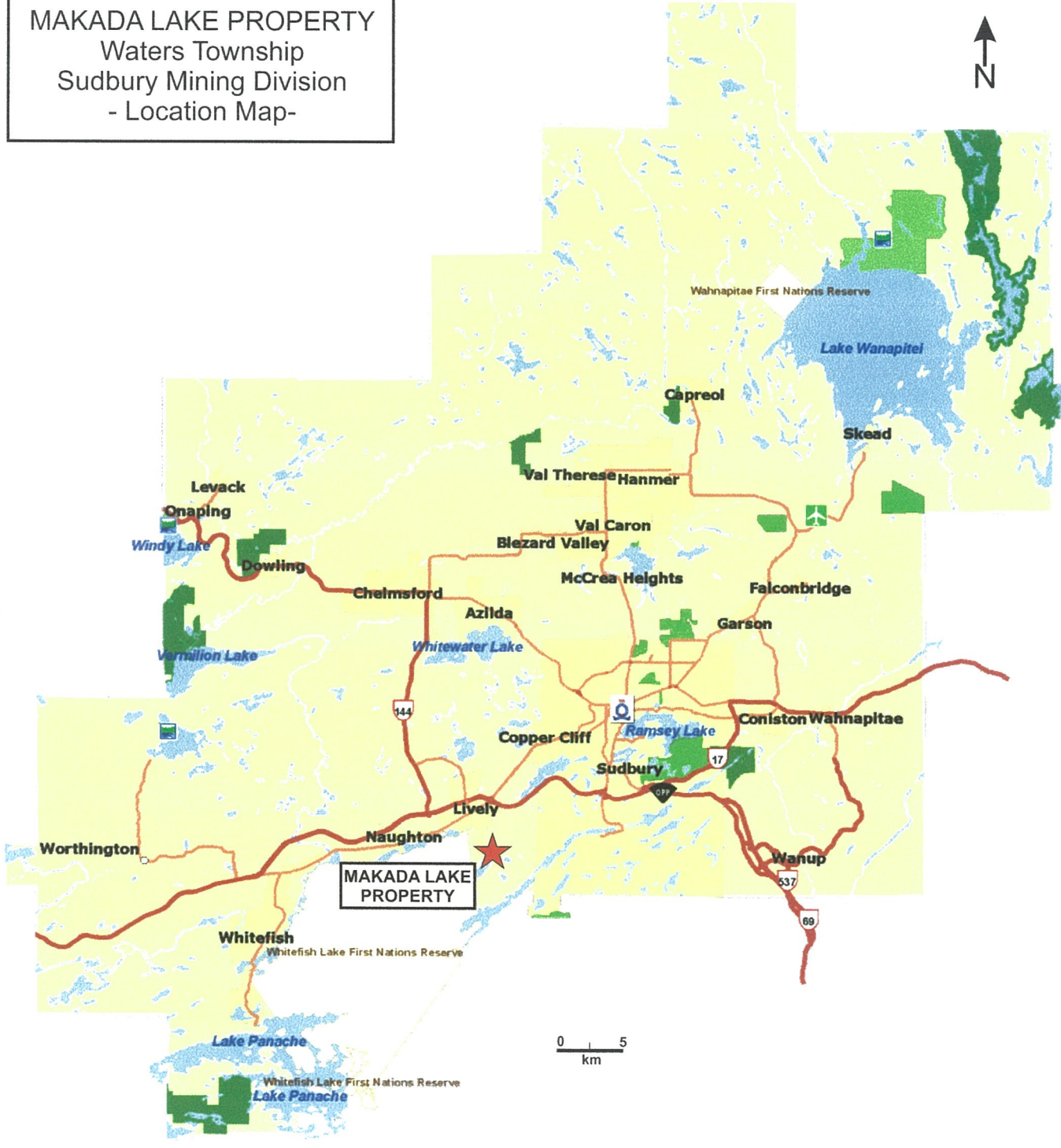
Inco Ltd.
(Ni, Cu, Co, Au, Ag, PGE, Se, Te, SO₂, H₂SO₄)

- Copper Cliff North
- Copper Cliff South
- Creighton
- Garson

- Lower Coleman
- McCreeedy East
- Frood - Stobie
- Gertrude



MAKADA LAKE PROPERTY
Waters Township
Sudbury Mining Division
- Location Map-





Mining Lands Administration System

FRANK RACICOT ▾ ()

English ▾



Client Report Details

Click here for Reference Documents (<https://www.mndm.gov.on.ca/en/mines-and-minerals/mining-act-policies-and-standards>)

Client Report

Client: MARIETTA KOSOVS...

Export to Excel

Legacy Claim Id ▾	Township / Area ↑	Tenure ID ↑	Tenure Type ↑	Anniversary Date ↑	Tenure Status ↑	Tenure Percentage ↑	Work Required ↑	Work Applied ↑	Available Consultation Reserve ↑	Available Exploration Reserve ↑	Total Reserve	Conversic Bank Credit
1223188	WATERS	124082	Single Cell Mining Claim	2019-04-28	Hold Pending extension of time	100	200	0	0	0	0	0
1223188	WATERS	320795	Single Cell Mining Claim	2019-04-15	Hold Pending extension of time	100	200	0	0	0	0	0
1223188	WATERS	241790	Boundary Cell Mining Claim	2019-04-28	Hold Pending extension of time	100	200	0	0	0	0	0
1223188	WATERS	236209	Single Cell Mining Claim	2019-04-28	Hold Pending extension of time	100	200	0	0	0	0	0
1223188	WATERS	218180	Boundary Cell Mining Claim	2019-04-15	Hold Pending extension of time	100	200	0	0	0	0	0
1223188	WATERS	198065	Single Cell Mining Claim	2019-04-15	Hold Pending extension of time	100	200	0	0	0	0	0
1223188	WATERS	198064	Single Cell Mining Claim	2019-04-15	Hold Pending extension of time	100	200	0	0	0	0	0
1223074	WATERS	181451	Single Cell Mining Claim	2020-04-28	Active	100	200	200	0	88	88	0
1223074	WATERS	235354	Single Cell Mining Claim	2019-04-28	Hold Pending extension of time	100	200	0	0	0	0	0
1223074	WATERS	217443	Single Cell Mining Claim	2019-04-15	Hold Pending extension of time	100	200	0	0	0	0	0

Showing 1 to 10 of 23 entries

First () Previous () 1 () 2 () 3 () Next () Last ()



Mining Lands Administration System

FRANK RACICOT ▾ ()

English ▾



Client Report Details

Click here for Reference Documents (<https://www.mndm.gov.on.ca/en/mines-and-minerals/mining-act-policies-and-standards>)

Client Report

Client: MARIETTA KOSOVS...

Export to Excel

Legacy Claim Id ▾	Township / Area ↑	Tenure ID ↑	Tenure Type ↑	Anniversary Date ↑	Tenure Status ↑	Tenure Percentage ↓	Work Required ↓	Work Applied ↓	Available Consultation Reserve ↓	Available Exploration Reserve ↓	Total Reserve	Conversic Bank Credit
1223074	WATERS	200266	Single Cell Mining Claim	2019-04-28	Hold Pending extension of time	100	200	0	0	0	0	0
1043226	WATERS	124082	Single Cell Mining Claim	2019-04-28	Hold Pending extension of time	100	200	0	0	0	0	0
1043226	WATERS	236209	Single Cell Mining Claim	2019-04-28	Hold Pending extension of time	100	200	0	0	0	0	0
1043226	WATERS	235354	Single Cell Mining Claim	2019-04-28	Hold Pending extension of time	100	200	0	0	0	0	0
1043226	WATERS	200266	Single Cell Mining Claim	2019-04-28	Hold Pending extension of time	100	200	0	0	0	0	0
1043225	WATERS	200266	Single Cell Mining Claim	2019-04-28	Hold Pending extension of time	100	200	0	0	0	0	0
1043225	WATERS	241790	Boundary Cell Mining Claim	2019-04-28	Hold Pending extension of time	100	200	0	0	0	0	0
1043225	WATERS	236209	Single Cell Mining Claim	2019-04-28	Hold Pending extension of time	100	200	0	0	0	0	0
1043225	WATERS	218011	Boundary Cell Mining Claim	2019-04-28	Hold Pending extension of time	100	200	0	0	0	0	0
1043223	WATERS	181451	Single Cell Mining Claim	2020-04-28	Active	100	200	200	0	88	88	0



Mining Lands Administration System

FRANK RACICOT ▾ ()

English ▾



Client Report Details

Click here for Reference Documents (<https://www.mndm.gov.on.ca/en/mines-and-minerals/mining-act-policies-and-standards>)

Client Report

Client: MARIETTA KOSOVS...

Export to Excel

Legacy Claim Id ▾	Township / Area ▾	Tenure ID ▾	Tenure Type ▾	Anniversary Date ▾	Tenure Status ▾	Tenure Percentage ▾	Work Required ▾	Work Applied ▾	Available Consultation Reserve ▾	Available Exploration Reserve ▾	Total Reserve	Conversion Bank Credit
1043223	WATERS	200266	Single Cell Mining Claim	2019-04-28	Hold Pending extension of time	100	200	0	0	0	0	0
1043223	WATERS	218011	Boundary Cell Mining Claim	2019-04-28	Hold Pending extension of time	100	200	0	0	0	0	0
1043223	WATERS	285421	Boundary Cell Mining Claim	2019-04-28	Hold Pending extension of time	100	200	0	0	0	0	0

Showing 21 to 23 of 23 entries

First () Previous () 1 () 2 () 3 () Next () Last ()

[← Back](#)

While there are 13 claims, the main traverse and prospecting was done on the most northern claims. The main traverse, prospecting and field examinations were done on claim 181451. See the traverse map in Appendix 1.

4) TOPOGRAPHY AND VEGETATION

The topography on the east side of the northern Makada claims that were investigated consists mainly of northeast trending ridges of gabbroic rocks. Exposure is generally very good with at least 30-40% exposed rock, or obvious outcrop on the gabbro ridges with very little overburden cover that consists of humus, poorly developed soils and sandy clay. The overburden cover on claim 181451 and 217443 over the quartzite area was a 'relatively 'dry' cedar swamp.

There are several northeast trending lineaments within the gabbro as seen on Google Earth, as well as some smaller lineaments. The vegetation on the gabbro is mainly red pine, birch, maple, some oak and some white pine with a few spruce trees.

The topography and vegetation on the west side of the northern claims that were visited is substantially different from that to the east. According to Ken Cards geology map 2119, the west side is mainly quartzite. There were a few quartzite outcrops close to the west edge of the gabbro, but most of the area to the west is flat and void of outcrops. The vegetation on the west side consists mainly of cedar, black spruce, balsam, poplar and a few rare birch trees.

The contact between the flat quartzite to the west and the gabbro ridges to the east was indicated by a small depression (gut) that had an azimuth of 025 degrees.

5) PREVIOUS WORK

The area was staked in 1988 and the following is a chronological list of work done since then.

1988 BP resources Canada Ltd., Kirkland Lake: Airborne EM-VLF-MAG survey- part of Waters Twp.

1989 Rauhala, Lively: assays and geochemical analysis: overburden stripping.

1990 Rauhala, Lively: mechanical overburden stripping, sampling and power washing.

BP Resources Canada Ltd., Kirkland Lake: grab samples and assays; best results 1.27% Ni, 0.89% Cu, 216 ppb Au, 31 ppb Pd and 15 ppb Pt (Dave Gamble)

INCO, Copper Cliff: grab samples and assays; best results 0.62% Ni, 0.29% Cu, 309 ppb Au and 103 ppb Pt (Andy Bite).

Falconbridge, Sudbury: grab samples and assays; best results 0.45% Ni, 0.14% Cu, 10 ppb Au, 10 ppb Pd, 30 ppb Pt, 200 ppm Ag and 400 ppm Co (Ted Barnett).

Giroux, Mackenzie, Cronkwright, Sudbury: geophysical survey on claim S-1043223 using Mag-VLF and Crone CEM system; several anomalies were outlined.

1991 Trivett and Rauhala, Sudbury: trenching (S-1043223) to determine source of geophysical anomalies; revealed thick gossan and bedrock mineralization.

- Rauhala, Lively: prospecting, sampling and blasting; best assays 1.59% Cu, 3738 ppb Au and 35 ppb Pd (claims S-1043223 and S-1043225).
- MNDM, Sudbury: grab samples and assays; best results 1.43% Ni, 0.40% Cu, 686 ppb Au and 1308 ppb Pd (Mike Cosec).
- Trivett and Junnila, Sudbury: geological mapping and report.
- Niemi and Trivett, Sudbury: geophysical survey (mag-VLF) on claims S-1043223, 1043225, &1043226 using EDA Omni Plus system; several anomalies were outlined.
- Niemi and Trivett, Sudbury: geophysical survey (Mag-VLF) on claims S-1043223 and 1043225 Using EDA Omni Plus system; several anomalies were outlined.
- 1993** Trivett, Sudbury: completed geophysical survey (Mag-VLF) on part of claim S-1223074; several anomalies were outlined.
- 1996** Rauhala, Lively: manual bedrock trenching and assays.
- 1997** Hopcroft and Berry, Oakville: Mechanical overburden stripping; no assays. Berry, Oakville: diamond drill hole (A1-97; 56.4 m length) completed in area south of and under Pit #2; no assays and only rudimentary logging completed.
- Jobin-Bevans, London: sampling, thin sections, assays and litho geochemistry as part of Ph. D. thesis work.
- 1998** Jobin-Bevans, Sudbury: sampling, thin sections, assays, litho geochemistry and detailed geological mapping as part of Ph. D. thesis work.
- 1999** Jobin-Bevans, Sudbury: re-logging of selected parts of drill hole A1-97; drill core sampling (23 core assays, sulphur and selenium); best results 0.11% Ni, 0.11 % Cu and 1.4 g/t Pt+Pd+Au (1033 ppb Pd, 217 ppb Pt).
- 2002** Jobin-Bevans, Sudbury: Investigated the geochemistry of the gabbroic rocks on the west side of the property and various dykes. Best PGE assay was 31 ppb (Pt, Pd, Au). Compared chondrite normalized PGE-Au-Cu-Ni-Co plots with rocks from property and various other areas.
- 2003** Jobin-Bevans and Cecil Johnson, Sudbury: Prospecting program, including a "Beep Mat" survey that identifies 11 new areas with sulphide mineralization with a northeast trending, dyke, including the "CJ Showing".
- 2004** Jobin-Bevans and Cecil Johnson, Sudbury: Follow up of the "CJ Showing"- that included mechanical stripping and mapping.
- 2005** JVX completes 3.2 km of ground mag and VLF surveys on N-S lines west of road.
- 2007** Johnson Cecil, Sudbury: Channel Sampling Report. Best results 59 ppb Pt, 131 ppb Pd, 32 ppb Au, 1146 ppm Ni, 302 ppm Cu. Walter Peredery Ph.D. identifies the nearby dyke as a possible Quartz Diorite dyke incorporation field observations and thin section analysis.

- 2008** Racicot Frank, Sudbury: 19 samples from a soil sampling line in a selected area and sent in two rock samples for whole rock analyses. High Zn and Mo anomaly Sudbury. Pegasus Metals collected 15 samples- 2 samples from the JR showing assay 0.42 g/t Au, 0.53% Ni, 0.12% Cu.
- 2011** Foy Robert and Johnson Cecil: Surface sampling and Beep Mat survey.
- 2013** Racicot Frank, Sudbury: ICP analysis on four samples and whole rock analysis on 7 samples, one of which is sent in for gold assay. Low results; some thin section work.
- 2017** Johnson Cecil, Sudbury: Prospecting and sampling of xenolith bearing dyke

6) GENERALIZED REGIONAL GEOLOGY

The region around the Makada Lake property in Waters Township consists of Early Proterzoic sedimentary rocks such as Mississagi Quartzites, Nipissing Gabbro intrusions, Middle Proterzoic Sudbury Dykes, the Creighton Pluton and several Grenville age related plutons. The property is about 10 km southwest of the southern edge of the Sudbury Igneous Complex (see Figure 2). An Offset (QD) dyke has been located and explored near Page Lake, about 2.5 km to the southeast.

7) GENERALIZED PROPERTY GEOLOGY

The Makada Lake property is mainly underlain by a Nipissing Gabbro intrusion and Huronian Supergroup sedimentary rocks that include Mississagi Formation feldspathic quartzites, arenite and arkose. There is a magnetic Olivine Diabase dyke on the property. A QD dyke and/or a 'xenolith bearing dyke' has been located on the property, south of the main northern traverse outlined in this report as well as a mafic trap rock dyke.

8) DAILY LOG AND FIELD RESULTS

Only one day, May 7, 2019, was spent in the field doing a traverse on the northern claim.

Since the purpose of the field traverse was to look for signs of QD dykes no field samples were taken or analyzed. The main rock encountered was a relatively uniform Nipissing gabbro. The gabbro was usually medium to fine grained and frequently dark grey or blackish on the pieces that were broken open.

In one area there were slightly rusty, hematitic patches of Nipissing gabbro that ranged in size from several inches to up to two feet. The rusty patches usually had vague outlines and may have been related to some sort local contamination. These rusty patches were not sampled and occurred about 50-75 meters northeast of the Sudbury Breccia described and located below.

There was an outcrop of sediment (quartzitic arkose) close to the gabbro contact that was very rusty on the surface. This occurred at 489601E/ 5137215N. Breaking open this outcrop did not reveal significant sulphides.

One outcrop containing Sudbury Breccia was located in the area and occurred within about 200 meters of known quartzite- situated to the northwest. The Sudbury Breccia was located at 489609E and 5137162N and is shown on the map at the end of this report. It is best described as having small, light colored fragments in an irregular, fine grained, darker mass of ground up local

Photos of Sudbury Breccia in Waters Township (489609E/ 5137162N)



rock. The fragments are sub round and a few mm to about 1 cm in size. The Sudbury Breccia is shown in the photos on the previous page.

The discovery of Sudbury Breccia is not particularly that significant as Sudbury Breccia can be found in 1000's or more locations within and around the Sudbury basin. What is significant is that Sudbury Breccia is part of the 'Sudbury event'. Also, Sudbury Breccia is often, although not always associated with QD dykes. Statistically it would be too much of a stretch to say the discovery of this specific Sudbury Breccia is an indication of possible QD dykes. But it might at least be a good place to consider future, detailed exploration for QD dykes.

9) SUMMARY AND RECOMMENDATIONS

It is worth repeating that not much work appears to have been done on these northern claims- largely due to the fact that it appears this area is a result of the way the new cell configuration has added some land to the north.

The traverse across the northern part of the claim group did not locate any QD dykes or boulders. It did however locate one small outcrop of Sudbury Breccia, which is not particularly significant as Sudbury Breccia occurs throughout the Sudbury Basin, and beyond.

Even though this preliminary traverse did not locate any QD dykes, it is the author's opinion that additional traverses could be done on the property- especially where there is Nipissing gabbro and not the area to the west that is flat and most likely contains Mississauga sediments. There is a lot of Nipissing gabbro outcrop and the QD dyke blends in very well. Additionally, it was assumed that the QD strike had a northeast strike and the main prospecting traverse on this project was east-west. But any existing QD dyke could strike at any orientation.

Additional traverses could be done on the north claims, especially on the south side of the two large swamps located on the enclosed map in the appendix at the back. Viewed from the north side of the swamp, a very good outcrop exposure and cliff face could be seen.

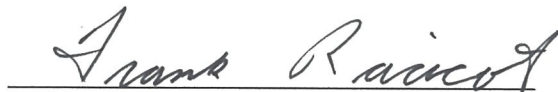
The Sudbury Breccia mentioned above is close to the large swamp located on the map in the appendix. A VLF survey in the winter over the two swamps could be considered as a way of determining if there is any mineralization and/or a dyke on the north claims.

STATEMENT OF QUALIFICATIONS for: FRANK RACICOT

This is to certify that I, Frank Racicot:

- I reside in 734 Whittaker St., Sudbury, Ontario, P3E 4B2
- I am an independent geological consultant with over 35 years varied experience in mineral exploration in Canada.
- I graduated in 1974 from Laurentian University, in Sudbury Ontario with a BSc in geology.
- I am a member in good standing of the Association of Professional Geologists of Ontario (APGO)

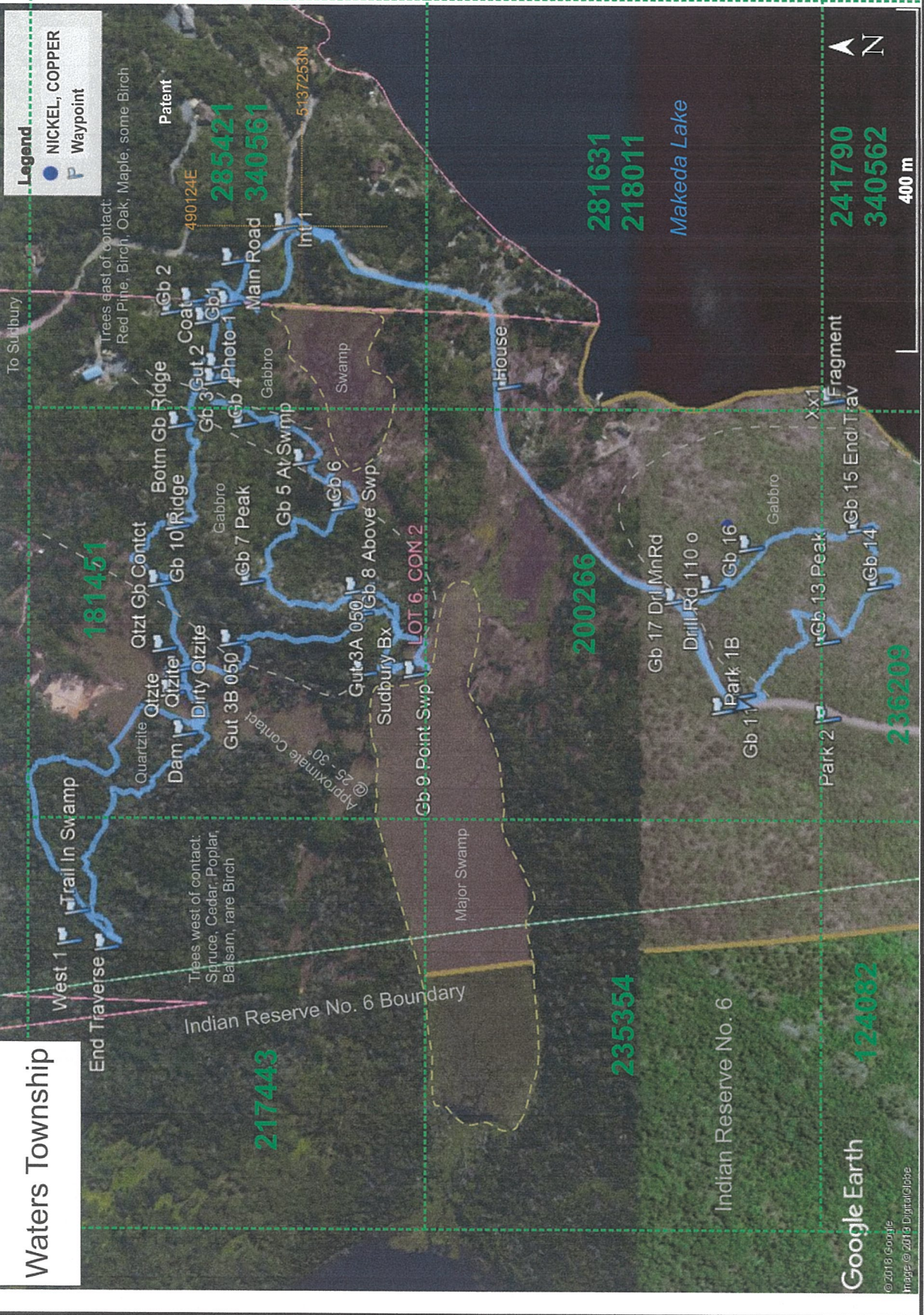
Dated this 20th day of May, 2019 at Sudbury, Ontario

A handwritten signature in black ink that reads "Frank Racicot". The signature is written in a cursive style and is positioned above a horizontal line.

Frank Racicot P. Geo (#0958)

APPENDIX 1

May 7, 2019 Prospecting Traverse Routes by Frank Racicot, Waters Twp.



Legend

- NICKEL, COPPER
- Waypoint



400 m

Waters Township

Google Earth

© 2018 Google
Image © 2018 DigitalGlobe