

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](#).

Keyed To : Technical Standards for Reporting Assessment Work Under the Provisions  
of the Mining Act, R.S.O. 1990, July 5, 2018

**1. GRASS ROOTS PROSPECTING**

**1.(i)**

**CELL 32D05H003**  
Dokis Twp, Cochrane District  
Larder Lake Mining Division

**Claim# 184518**  
NTS 32D/05  
48° 24' 46 "N, 79° 36' 42" W

0602715E 5363130N  
NAD 83 datum, Zone 17u

compiled : E. Marion  
September 2022

## Technical Standards for Reporting Assessment Work – version 2 – July 5, 2018

### 1. GRASS ROOTS PROSPECTING

A technical report in respect of grass roots prospecting shall:

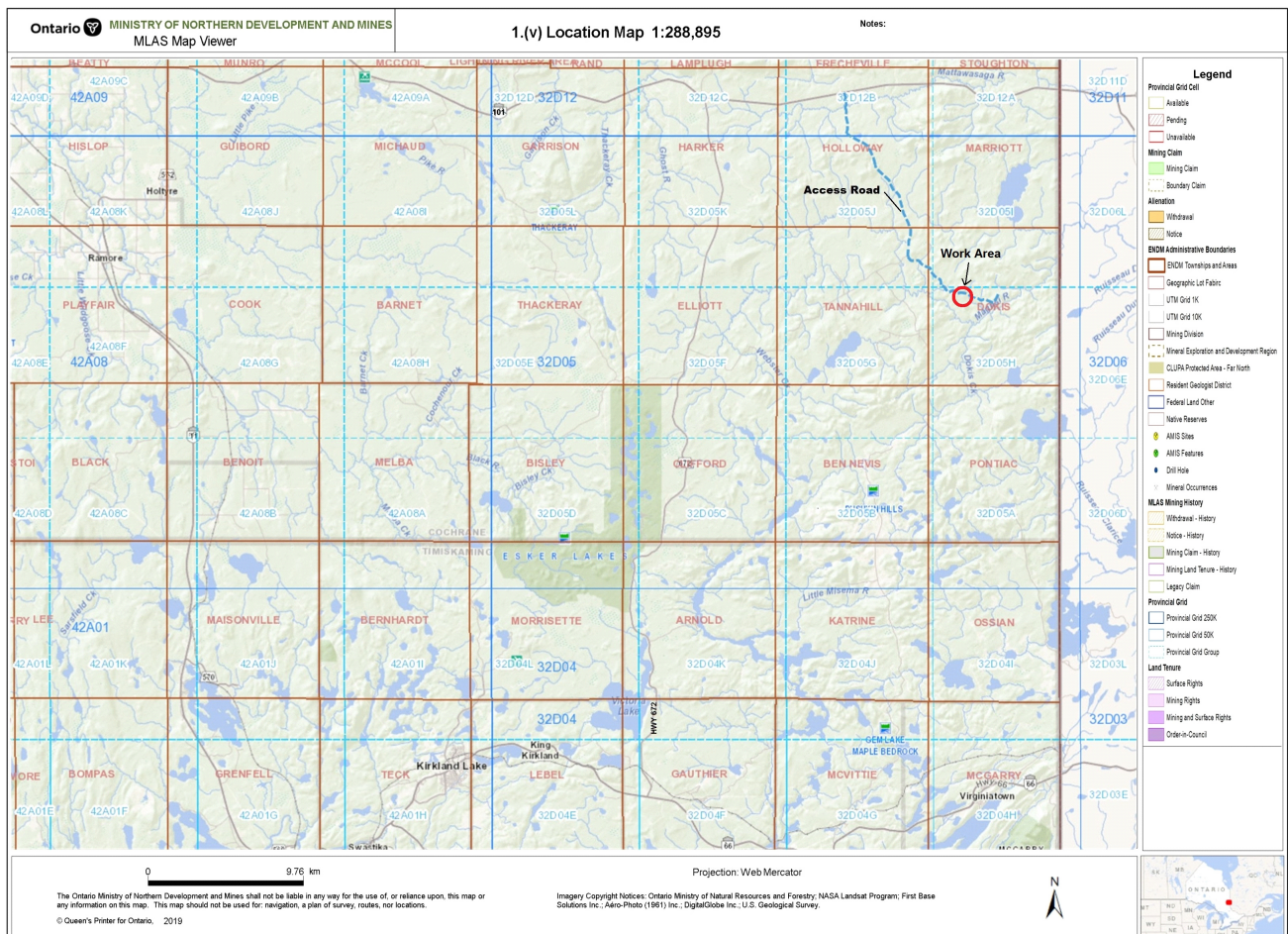
- 1.(i) contain a title page, with the name of the technical report, the property name, (i)the date of completion of the report, and clearly identifying the author(s),
- 1.(ii) give the names of the persons who performed the work;
- 1.(iii) identify the mining lands on which the work was performed, using the (iii)Township name, the cell number(s) on the Provincial Grid, as well as the claim numbers, lease numbers, Licences of Occupation numbers or Patent numbers, and identify the ownership of the land;
- 1.(iv) identify the means of access to the land from the nearest population centre;
- 1.(v) contain a key map showing the land where the grass roots prospecting was (v)done in relation to identifiable topographic features and township boundaries or in relation to established grid lines, stations or markers;
- 1.(vi) summarize the number of samples collected, and the number of samples analysed;
- 1.(vii) provide the number of any applicable exploration permit issued or exploration plan filed pursuant to O. Reg 308/12;
- 1.(viii) provide a daily log describing in detail the nature and content of the work and the nature of rocks and mineralization observed during the performance of the work;
- 1.(ix) provide a description and GPS location of all samples collected;
- 1.(x) include all assays and analyses with their corresponding certificates;
- 1.(xi) where grass roots prospecting instruments were used to collect data and/or where analyses were made in the field,
  - a. provide a log detailing the nature of the ground where the measurement/analysis was done (e.g., paved road, dirt road/trail, gravel road/trail, bedrock, overburden...etc.), as well as its condition (wet or dry);
  - b. identify any cultural features that may interfere with the measurements (e.g., power lines, rail tracks...etc.);
  - c. provide the results of the data collected and/or the results of the analyses;
  - d. provide specific information about the instruments used (manufacturer, type, model, detailed description of calibration, etc.);
  - e. describe the method used to make the measurements;
- 1.(xii) provide a legend of all symbols or abbreviations used in the technical report; and
- 1.(xiii) include a map at a scale between 1:100 and 1:5,000 showing,
  - a. the location and date of all traverses;
  - b. the location of all outcrops investigated and of observed rock types, mineralization, trenches, and any mineralized float boulders;
  - c. the location of all samples, clearly identifying the location of each sample by number, letter or grid coordinate designation;
  - d. the character of the overburden, including boulders, clay, gravel and sand;
  - e. the distribution of swamp, muskeg and forest cover areas along all lines traversed;
  - f. lakes, streams and other notable topographic features, and railways, roads, trails, power lines, pipelines and buildings;
  - g. Provincial Grid cell boundary lines, claim boundary lines, township boundary lines, base lines, established grid lines, and survey monuments, if any;
  - h. the cell number(s) on the Provincial Grid, the mining claim, lease, patent or parcel numbers of all mining land on which the grass roots prospecting was performed;
  - i. a descriptive list of all symbols used;
  - j. a graphic or bar scale and the north direction; and
  - k. where grass roots prospecting instruments were used to collect data and/or where analyses were made in the field,
    - i. show the location of all measurement stations;
    - ii. show the values of readings taken and the units measured such as gammas, degrees, milliamps, milligals, milliseconds, and ohmmeters, and dimensionless units such as per cent and ratios.

1.(ii) Field work, prospecting and physical work was performed by James Tinney and Louis Despres. The compilation and report was put together by Eric Marion from notes and comment.

1.(iii) The mining lands are utm grid cell 32D05H003 registered as cell claim #184518 in DokisTownship, District of Cochrane, Larder Lake Mining Division. A minor amount of the work may have passed into the adjacent utm grid cell 32D05H002 registered as cell claim #184519. The lands are registered 100 percent in the name of James Tinney. The claim area is found on NTS map sheet 32 D-5 with the geographic center of the work area located at about 0602716E 5363130N datum NAD 83, Zone17u. (48°24'46" N, 79°36'42" W)

1.(iv) To get the claim, one would drive east from the historic gold producing town of Kirkland Lake on Highway # 66 for 13 kilometers then turn north on Highway #672(locally known as Esker Park Road).Driving north for about 46 kilometers will bring you to a reasonably well surfaced highway 101. Following this east for 10½ kilometers takes you to a logging Road #46, which continues southeasterly. Staying on this branch for 11½ kilometers brings you to the start of Logging Road # 52 which continues to trend in a south-east direction. Following this for about 14.3 kilometers south south-east will put you at a point about in the middle of cell claim 146143. Former logging roads have given fair access to the area. Since completing harvesting and replant activities many of the smaller branch roads have begun to deteriorate and grow in, some significantly.

1.(v) Map showing location of various topographic and cultural features in relation to work area.



1.(vi) No samples obtained.

1.(vii) N.A.

1.(viii) On May 24, 2022 prospecting and hand stripping around a topographically higher area with bedrock exposures was performed by Louis Despres and James Tinney with the objective of locating pyrite or quartz veining. The area was chosen to follow up on a previous prospecting traverse which had crossed an area with several small outcrop exposures (*ref work report 2848*). Additional work was done to more closely examine the small rock exposures. The rocks exposed at location "A" and "B" have been previously mapped by L.S. Jensen on map 2367 (geology of Tannahill & Dokis Twp) as basaltic to andesitic flows or pillow breccias or tuffs to lipilli tuff. Rocks at location A and B appear to be partially fragmental in nature, medium green on fresh surface with a rusty brown weathered surface to about 5 millimeter depth, non magnetic, non reactive to 7% HCL. No significant mineralization was noted. A geochemical specimen was retained.



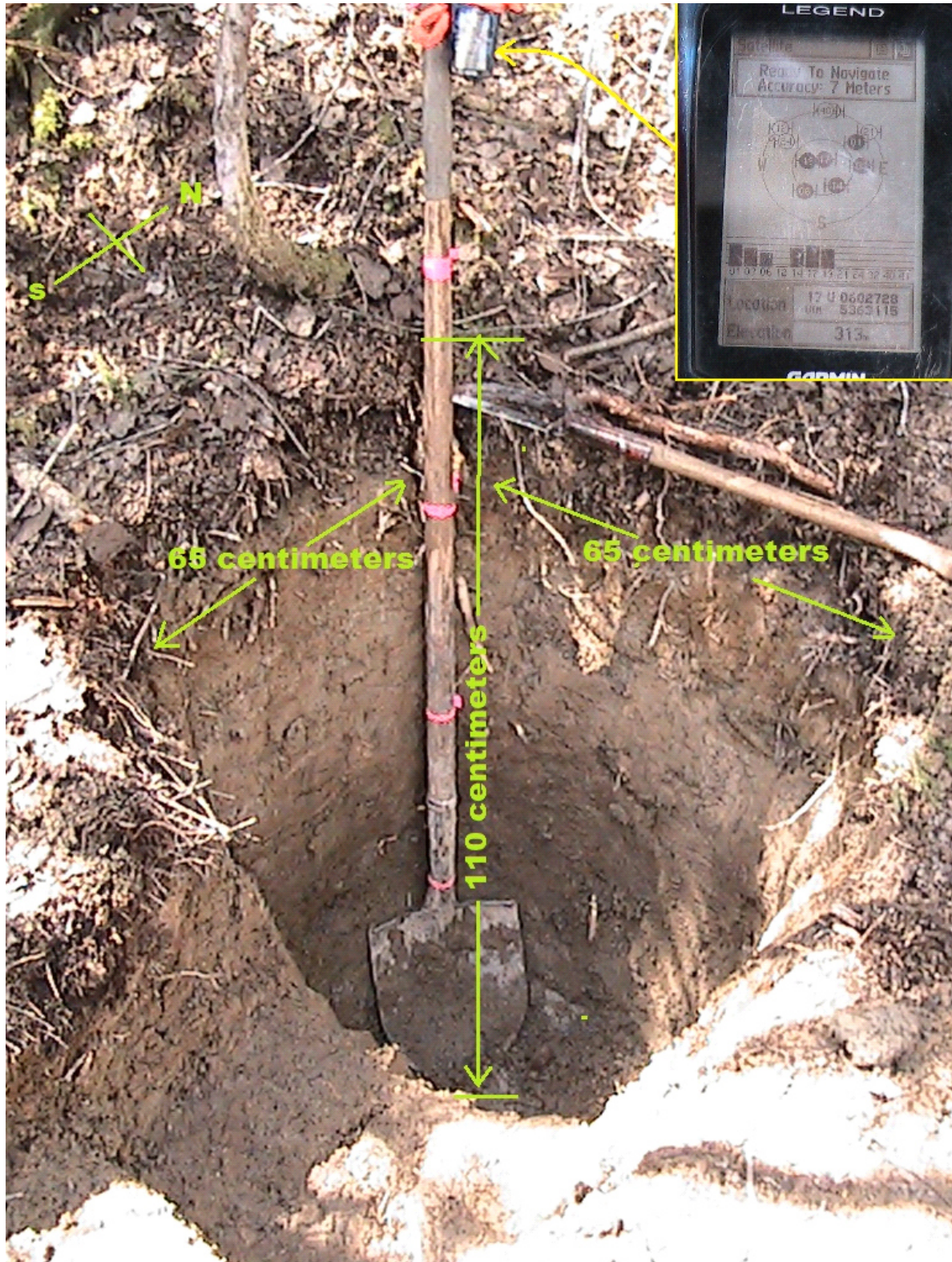
**Location A** - Andesitic lapilli tuff? showing chloritic and quartz shards and lapilli. Non magnetic. No reaction to 7% HCL. Located at about utm 0602682E 5363110N NAD 83. (Sharpie for scale aligned N-S, white end North)

- - -



Andesitic lapilli tuff? showing quartz fragments and replacements. Possibly some amydules also. Quartz pieces stick out up to 1 centimeter. Non magnetic. No reaction to 7% HCL. Located at about utm 0602733E 5363155N NAD 83. (Sharpie for scale aligned N-S, white end North)

In the same vicinity, a test pit noted as location "C", was hand dug to the immediate south of the topographic rise where locations A and B are situated with the purpose of retrieving possible lodgement till in the lee of the outcrops. There were several rounded appearing boulders or erratics present which it was hoped that represented larger remnants of wave washed till area. Strangely, the several boulders were all almost entirely above ground. The lack of any angular edges leaves the impression of till rather than locally derived talus. Ice movement direction of the area has been previously identified as striking about 170° astronomical.



**Location C** - Hand dug pit to test for lodgement till. 1.1 meters of light tan colored, dry, clast free, silty clay. Located at about utm 0602728E 5363115N NAD 83.(ribbons on shovel 30 cm spacing)

The pit at location C was about 65 centimeters by 65 centimeters square to a depth of about 1.1 meters, with 40 centimeter by 40 centimeter square to 50 centimeter depth side step at the south side cut down to assist the digging. Total volume would be about 0.5 cubic meters of silty clay having been hand excavated. All material was a light tan to reddish tan with no clasts encountered, nor were there any developed varves as are noted at other areas within the township. The materials are like sediments deposited in pro-glacial lake Barlow, which covered an extensive area of the region. It was hoped a sample could be obtained from both north and south areas of the claim area for comparative purposes. As glacial till / basal till material was not encountered, no sample was taken for till analysis.

No further work is currently contemplated at the site however forestry activities are currently taking place in the immediate area which may strip off previously covered areas. Prospecting the newly cut area could be undertaken.

1.(ix) N.A.

1.(x) N.A.

1.(xi) N.A.

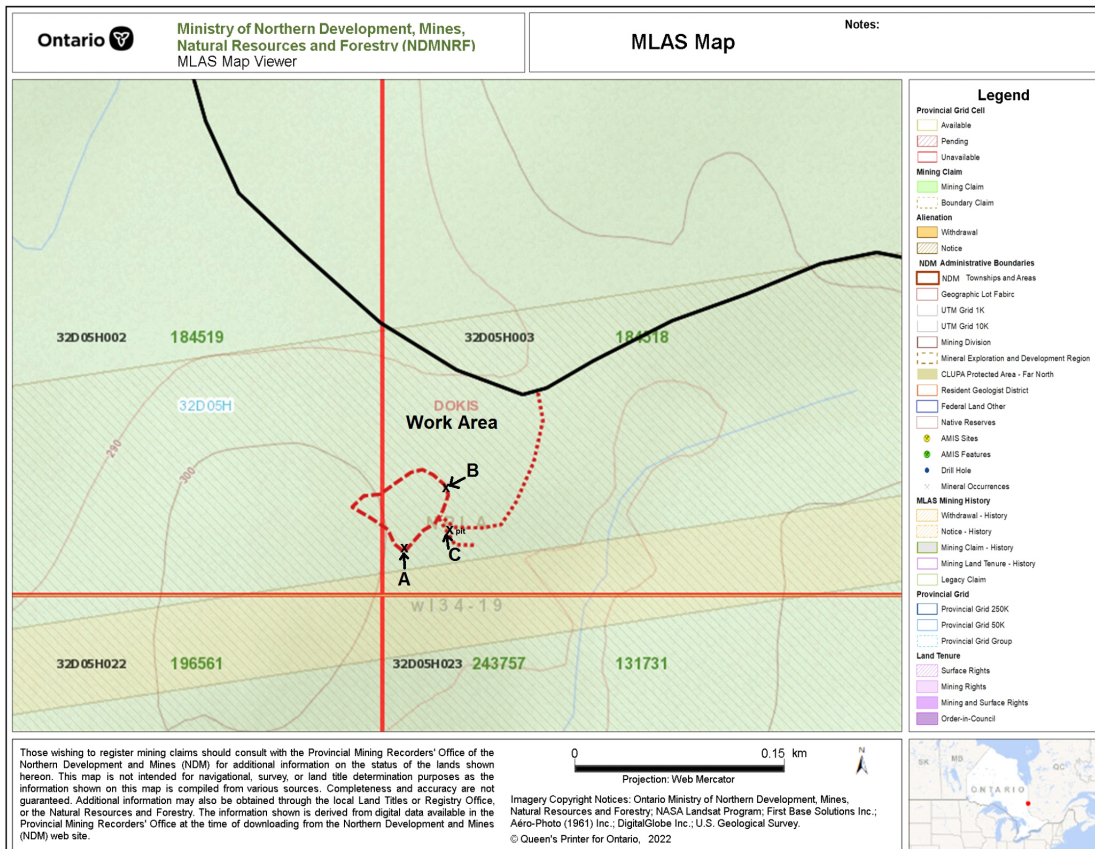
1.(xii)

Legend

Au = Gold	Ag = Silver	As = Arsenic	Cu = Copper	Ni = Nickel
Pb = Lead	Zn = Zinc	Mo = Molybdenum	qz = quartz	
m = meter	mm = millimeter	cm = centimeter	km = kilometer	twp = township
" = inch / inches	' = foot or feet	° = degrees	az = azimuth	

1.(xiii)

### Work Area Map



**BIBLIOGRAPHY**  
**- SUGGESTED RESEARCH -**

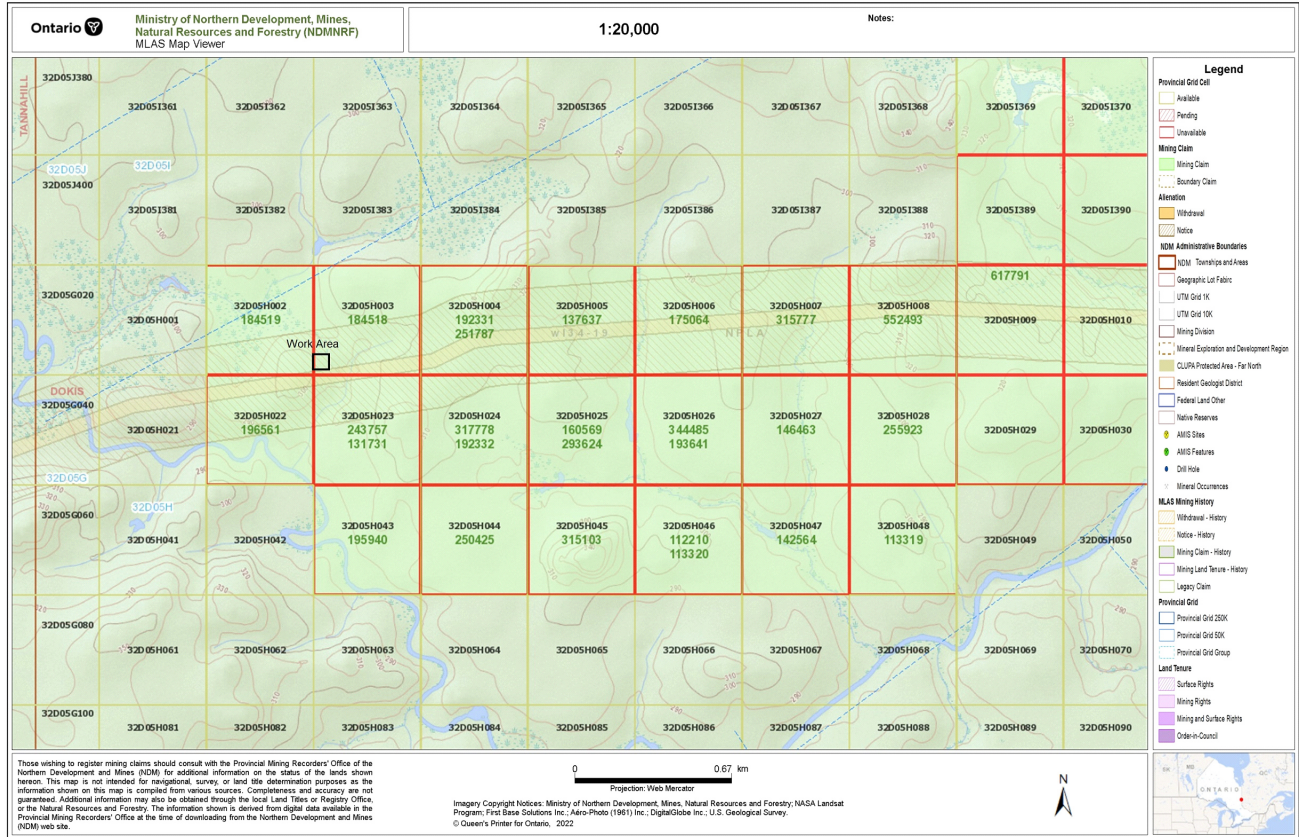
- Ayer, J.A., Berger, B.R. and Trowell, N.F.  
 1999: Geological Compilation of the Lake Abitibi area, Abitibi greenstone belt; Ontario Geological Survey, Map P.3398 scale 1:100,000
- Gibson, H.L. and Kerr, D.J.  
 1993: Giant Volcanic Associated Massive Sulfide Deposits with Emphasis On Archean Deposits,
- Jensen, L.S.  
 1978: Geology of Thackery, Elliott, Tannahill and Dokis Townships, District of Cochrane; Ontario Geological Survey Report 165, 71p Accompanied by Maps 2367, 2368, scale 1:31,680 (1 inch to 1/2 mile)
- Jensen, L.S.  
 1975: Geology of Clifford and Ben Nevis Townships, District of Cochrane; Ontario Div. Mines, GR132, 55p. Accompanied by **Map 2283**, scale 1 inch to 1/2 mile
- Jensen, L.S. and Langford, F.F.  
 1983: Geology and Petrogenesis of the Archean Abitibi Belt in the Kirkland Lake Area, O.G.S. Open File Report 5455
- Department of Energy Mines and Resources  
 1974: Map Sheet 32 D/5, Topographic Series, Magusi River, Ontario-Quebec District of Cochrane and District of Temiskaming; Series A 751, Map 32D/5 Edition 2 MCE, Surveys and Mapping Branch, Department of Energy Mines and Resources, scale 1:50,000
- Lovell, H.L. and Caine, T.W.  
 1970: Lake Temiskaming Rift Valley; Ontario Department of Mines Miscellaneous Paper 39
- Mason, R., Brisbin, D.I., and Aitkin, S.  
 1989: The Geological Setting of Gold Deposits in the Porcupine Mining Camp; in Geoscience Research Grant Program, Summary of Research 1987 to 1988, Ontario Geological Survey, Miscellaneous Paper 140, Grant 298, p. 133-145
- Morton, R.L., Gibson, H.L.,  
 1983: Physical Volcanology, Hydrothermal Alteration and Associated Massive Sulfide Deposits, with contributions by Franklin, J.M., Geological Survey of Canada and Hudak, G.J., University of Minnesota-Duluth
- Ministry of Northern Development and Mines  
 Kirkland Lake : Resident Geologist Files, Dokis Township
- |                               |   |
|-------------------------------|---|
| Magusi River Exploration Inc. | File # 1716                                   |
| Amax Exploration              | File # 28                                     |
| Southwest Potash Corporation  | File # 2545                                   |
| Santa Maria Mines Ltd.        | File # 2455                                   |
| Maurice Hibbard               | File # 833                                    |
| McIntyre Porcupine Mines Ltd. | File # 1825                                   |
| Roger P. Harvey               | File # 805                                    |
| Edouard Poirier               | File # 3474, 3705                             |
| Dean R Cutting                | File # 3899                                   |
|                               | Tannahill Township                            |
| Sudbury Contact               | File # 3228, 3316<br>3401, 3402<br>3407, 3408 |
| Lac Minerals                  | File # 1507, 1543<br>1544, 1541<br>1542, 1545 |
- Ministry of Energy, Northern Development and Mines



- O.G.S.  
1984: Airbourne Electromagnetic and Total Intensity Magnetic Survey, Matheson-Black River Area, Dokis Township, District of Cochrane: by Questor Surveys Limited for the Ontario Geological Survey, Map 80611 Geophysical/Geochemical Series, Scale 1:20,000, Survey and compilation March to July 1983
- O.G.S.  
1984: Airbourne Electromagnetic and Total Intensity Magnetic Survey, Matheson-Black River Area, Tannahill Township, District of Cochrane: by Questor Surveys Limited for the Ontario Geological Survey, Map 80610 Geophysical/Geochemical Series, Scale 1:20,000, Survey and compilation March to July 1983
- O.G.S.  
1986: Volcanology and Mineral Deposits, Miscellaneous Paper 129
- O.G.S.  
1979: Airbourne Electromagnetic and Total Intensity Magnetic Survey, Kirkland Lake Area, Ben Nevis Township, District of Cochrane: by Questor Surveys Limited for the Ontario Geological Survey, Prelim. Map P.2254 Geophys. Ser., Scale 1:20,000, Survey and compilation February and March 1979
- Ontario Geological Survey  
1989: Sonic Drillholes 88-38, 88-39 and 88-40, Dokis Township, District of Cochrane; Ontario Geological Survey, Map 81 164, Geophysical/Geochemical Series. Geology 1988
- Ontario Geological Survey  
1989: Sonic Drillholes 88-34, 88-35, 88-36 and 88-37, Tannahill Township, District of Cochrane; Ontario Geological Survey, Map 81 163, Geophysical /Geochemical Series. Geology 1988
- Ontario Geological Survey  
1989: Sonic Drillholes 88-33 and 88-43, Tannahill Township, District of Cochrane; Ontario Geological Survey, Map 81 162, Geophysical/Geochemical Series. Geology 1988
- Ontario Geological Survey  
2003: Airborne magnetic and electromagnetic surveys, residual magnetic field and electromagnetic anomalies, Kidd-Monroe, Blake River area; Ontario Geological Survey, Map 81 776, scale 1:20,000
- Ontario Geological Survey  
2003: Airborne magnetic and electromagnetic surveys, residual magnetic field and electromagnetic anomalies, Kidd-Monroe, Blake River area; Ontario Geological Survey, Map 81 781, scale 1:50,000
- Ontario Geological Survey  
2003: Airborne magnetic and electromagnetic surveys, shaded image of the second vertical derivative of the magnetic field and Keating coefficients, Kidd-Monroe, Blake River area; Ontario Geological Survey, Map 81 783, scale 1:50,000
- Ontario Department of Mines and Northern Affairs  
1971: Preliminary Map P.707, Geological Series, Dokis Township, District of Cochrane, Geology by L.S. Jensen and Assistants, 1971, scale 1 inch to 1/4 mile
- Ontario Department of Mines and Northern Affairs  
1971: Preliminary Map P.706, Geological Series, Tannahill Township, District of Cochrane, Geology by L.S. Jensen and Assistants, 1971 scale 1 inch to 1/4 mile

# ADDENDUM

## 1.(v) Map showing location of various topographic and cultural features in relation to work area.



END