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Assessment Report
Reflected Light Petrography, Scanning Electron Microscope and Electron Probe
Mineral Analyses
Danby Triangle Property, Thunder Bay Mining Division

Claim 4283459
Kitchen Lake Area (G-0738)
Thunder Bay South District
Thunder Bay Mining Division
UTM WGS84 Zone 16U 335020 mE, 5487230 mN
Lat 49° 30' 55"N, Long 88° 16' 46"W
NTS 52H 11 (Kabitotikwia Lake)

For:
Pavey Ark Minerals Inc.
Client number 411465

Prepared by:
Richard H. Sutcliffe
100 Broad Leaf Crescent
Ancaster, ON, L9G 3R8

September 11, 2017

Executive Summary

This assessment report documents reflected light petrography, scanning electron microscope (SEM), and electron probe micro (EPMA) analysis on polished thin sections of Archean gabbroic and ultramafic rocks from the Danby Triangle Property, located in the Thunder Bay Mining District, Northwestern Ontario. The work targets magmatic Ni-Cu-Pt-Pd mineralization in Archean mafic intrusive rocks overlain by a Proterozoic Nipigon diabase sill.

The Danby Triangle Property is located 125 km north of the city of Thunder Bay, Ontario. The Property is road accessible and located 1 km west of highway 527. The northern part of the property is accessible by ATV or snowmobile using the Geikie Road that extends west from highway 527. The Danby Triangle Property is comprised of seven contiguous staked claims covering 94 claim units (covering 1,504 ha) numbered 4266151, 4266152, 4266154, 4279753, 4279754, 4283459, & 4283460 that are owned by Pavey Ark Minerals Inc., a private Ontario company.

For this report, drill core sampling was completed in Thunder Bay on November 23 and 24, 2016. Polished sections were prepared by Vancouver Petrographics. Transmitted light microscopy followed by reflected light microscopy was completed in July, 2017. The latter work utilized microscopes at the OGS laboratories, Sudbury. SEM analysis using a MLA FEI 650F electron microscope and EMPA mineralogical analysis using a JEOL microprobe was completed by ActLabs Laboratories in Ancaster, Ontario in July and August 2017. Reporting was completed in September 2017. Total expenditures were \$8,315.

The Property is underlain by Middle Proterozoic Nipigon diabase/gabbro sills related to the Nipigon Embayment of the Mid-Continent Rift. The Nipigon sills intrude and overlie Archean and intrusive rocks of the Wabigoon Suprovince. Sibley Group sediments have been intersected in several of the in drill holes that have penetrated the lower contact of the diabase. Both Archean and Proterozoic rocks in the area host significant Ni-Cu-PGM mineralization. The operating Lac des Iles Pd Mine (Archean) is located 41 km southwest of the Property.

Previous exploration by Canplats Resources Corp. and Colby Resources Corp. in 2001 to 2004 and Platinum Group Metals Ltd. in 2011 identified several airborne EM conductors in the vicinity of the Property and subsequent drilling intersected mafic rocks with anomalous Pt-Pd values. Core drilled by Platinum Group Metals Ltd. in 2011, that intersected anomalous PGM-Cu-Ni-Cr values in Archean gabbroic rocks as beneath the diabase sill, was recovered and re-logged by Pavey Ark in 2016. This work characterized the gabbroic rocks as modally and cryptically-layered amphibole gabbro and meta-pyroxenite. In 2016, Crone Geophysics completed a magnetic inversion model for Pavey Ark using MAG3D software and OGS airborne data collected on 150 m flight lines. The MAG3D model isosurface outlines a large magnetic body with a depth of 1 to 2 km corresponding with the gabbroic rocks that may represent a favourable environment to explore for magmatic sulphide deposits.

The current work confirms the presence of magmatic pyrrhotite+chalcopyrite+pentlandite sulphide assemblages in the gabbroic rocks. Ilmenite has been identified as the principal oxide phase and high Cr values are associated with hornblende.

A follow up geophysical program with a 200 m spaced grid and ground PEM-type survey is recommended to resolve the conductive targets identified by VTEM, BHEM and Max-Min surveys.

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1.0 Introduction

This assessment report documents reflected light petrography, scanning electron microscope (SEM) and electron probe micro analysis (EPMA) on polished thin sections of Archean gabbroic and ultramafic rocks from the Danby Triangle Property, located in the Thunder Bay Mining District, Northwestern Ontario.

Drill core sampling for this assessment report was completed in Thunder Bay on November 23 and 24, 2016. Polished sections were prepared by Vancouver Petrographics. Transmitted light microscopy followed by reflected light microscopy was completed in July, 2017. The latter work utilized microscopes at the OGS laboratories, Sudbury. SEM analysis using a MLA FEI 650F electron microscope and EMPA mineralogical analysis using a JEOL microprobe was completed by ActLabs Laboratories in Ancaster, Ontario in July and August 2017. Reporting was completed in September 2017. Total expenditures were \$8,315.

The work primarily targets magmatic Ni-Cu-Pt-Pd mineralization in Archean mafic intrusive rocks overlain by a Proterozoic Nipigon diabase sill. The mineralogical study documents a magmatic sulphide association including chalcopyrite+pyrrhotite+pentlandite. This is potentially the origin of a regional lake sediment anomaly for Cu, Cr, Pd, Pt, and strong VTEM and off-hole BHEM anomalies on the property.

2.0 Location and Access

The Danby Triangle Property is located 125 km north of the city of Thunder Bay, Ontario (Figure 2.1). The Property is road accessible and located 1 km west of highway 527. The northern part of the property is accessible by ATV or snowmobile using the Geikie Road that extends west from highway 527. The Geikie Road is not signed but is approximately 17 km north of the sign posted access road to Cheeseman Lake. A washout at approximately 650 m on the Geikie Road limits further access by vehicles other than ATV's. The southern part of the property is accessible by ATV or snowmobile using the Geikie Loop Road that also extends west from highway 527.

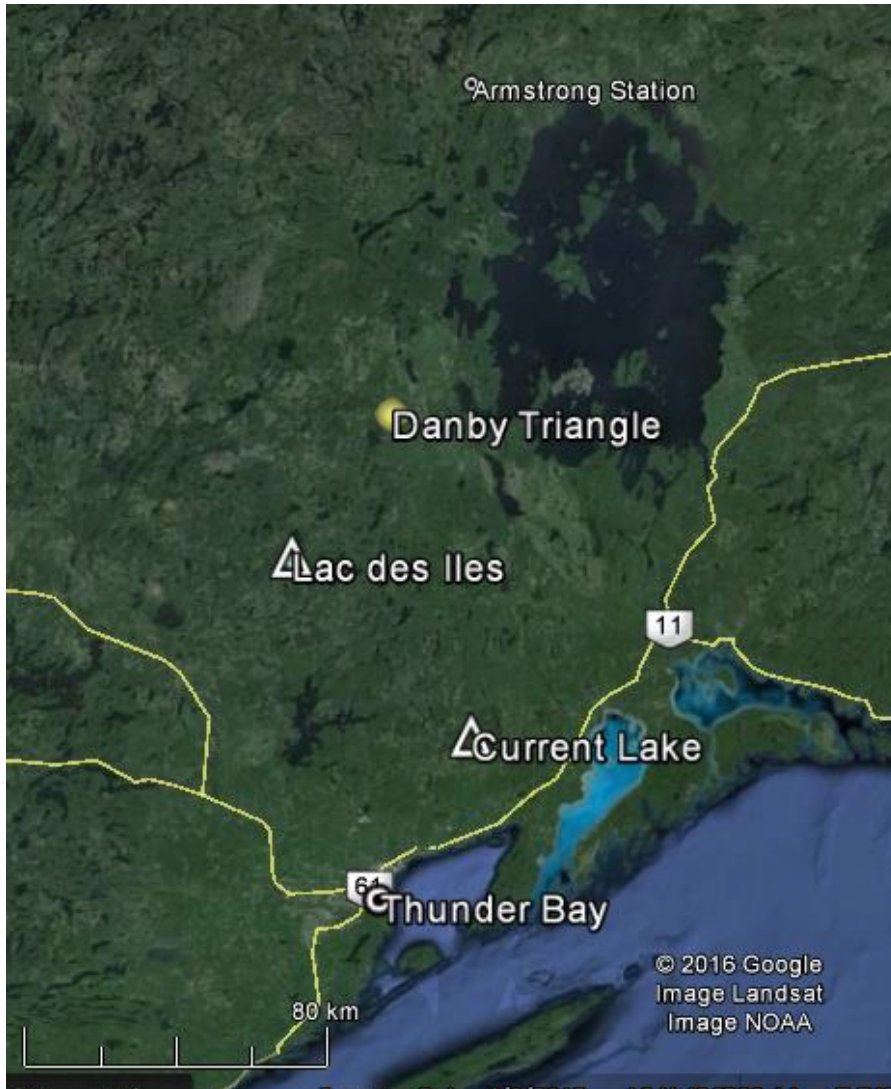


Figure 2.1. Danby Triangle Property Location

Source: GoogleEarth, 2016

3.0 Claim holdings and property disposition

The Danby Triangle Property is comprised of seven contiguous staked claims (94 units) numbered 4266151, 4266152, 4266154, 4279753, 4279754, 4283459, 4283460 (Table 3.1). The Property covers 1,504 ha. Claims are held by Pavey Ark Minerals Inc., a private Ontario company. A current claims map for the Cheeseman Lake Area showing the location of the claims is provided as Map 1. The current work was done on Claim 4283459.

Table 3.1 List of Staked Claims**THUNDER BAY Mining Division - 411465 - PAVEY ARK MINERALS INC.**

Township / Area	Claim Number	Recording Date	Claim Due Date	Status	Percent Option	Work Required	Total Applied	Total Reserve	Claim Bank
CHEESEMAN LAKE AREA	4266152	2012-Oct-25	2017-Oct-25	A	100 %	\$2,000	\$6,000	\$0	\$0
CHEESEMAN LAKE AREA	4266154	2012-Oct-25	2017-Oct-25	A	100 %	\$4,400	\$13,200	\$0	\$0
KITCHEN LAKE AREA	4266151	2012-Oct-25	2017-Oct-25	A	100 %	\$6,400	\$19,200	\$277	\$0
KITCHEN LAKE AREA	4279753	2016-Nov-07	2018-Nov-07	A	100 %	\$6,000	\$0	\$0	\$0
KITCHEN LAKE AREA	4279754	2016-Nov-07	2018-Nov-07	A	100 %	\$6,000	\$0	\$0	\$0
KITCHEN LAKE AREA	4283459	2016-Mar-21	2018-Mar-21	A	100 %	\$5,129	\$1,271	\$0	\$0
KITCHEN LAKE AREA	4283460	2016-Mar-21	2018-Mar-21	A	100 %	\$5,129	\$1,271	\$0	\$0

4.0 Previous Work

Lake sediments in the Cheeseman-Danby Lakes area were found to contain highly anomalous values of Au, Pd, Cu, and Pt as well as one site with the highest lake sediment Cr in the Obonga Garden Lakes area regional survey (Jackson and Dyer, 2000; OGS, 2000). The source of these anomalies has not been conclusively identified.

In 2001/2002 Canplats Resources Corp. and Colby Resources Corp. completed geological mapping, soil sampling, ground magnetic, IP surveys, and a Fugro AEM test survey on the property. The AEM survey identified several moderate northeast trending conductors east and south of Danby Lake. Canplats drilled 7 holes east of Danby and Geikie Lakes to test IP chargeability and AEM anomalies. The holes intersected anomalous Cu and Pd values in Proterozoic diabase and presumed Archean metavolcanic rocks. In 2004, Canplats drilled GK-03-08, an 859 m hole inclined at 56° to the north and located 1.5 km east of the Danby property (McNaughton 2014). This hole intersected Proterozoic diabase from surface to 313 m, Sibley Group sediments at 313 to 337 m, and then Archean gabbro. The gabbro was dated at 2,688 Ma. Both Proterozoic and Archean intrusions are reported to contain minor PGM values.

The Danby Triangle Property was covered by the Ontario Geological Survey airborne magnetic survey flown at 150 m spacing in 2003 as part of regional studies of the Lake Nipigon area (Map 81816, OGS, 2004a). The area was also covered by the Ontario Geological Survey ground gravity Bouguer anomaly survey (Map 81931, OGS 2004b). These surveys show that the Danby Triangle claim group covers the western and northern edges of a broad >2 km diameter magnetic high and coincident 4 milligal Bouguer anomaly. The broad magnetic high is associated with flanking magnetic lows to the north, east and west.

A 2008 soil sampling program by Benton Resources identified an anomalous zone of Au, Cu and other elements on the eastern side of Cheeseman Lake (Byrnes and Sims, 2008).

Platinum Group Metals Ltd. (PGM) carried out 31.1 line km of reconnaissance airborne VTEM magnetic and EM surveys at 500 m spacing in 2011 over their Triangle Property, part of which is Pavey Ark's current Danby Triangle property (VanEgmond 2013). The VTEM surveys were successful in delineating one line conductivity anomalies that were followed up with a more detailed VTEM survey at 100 m spacing flown in a NW direction. This survey identified an approximately 600 m diameter VTEM anomaly located in the southern part of claim 4283459 (Figure 4.1).

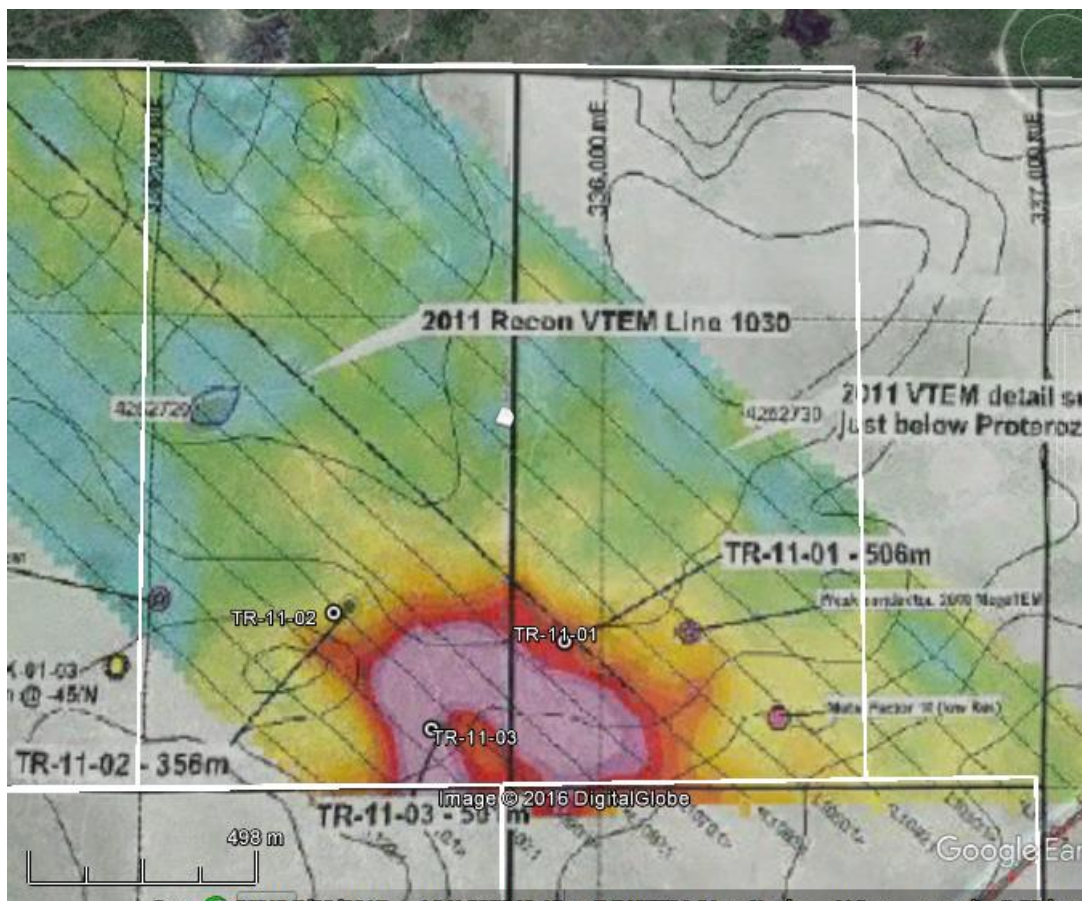


Figure 4.1. Location of PGM Ltd.'s VTEM anomaly and drill holes TR-11-01, 02, 03 relative to claim 4283459. VTEM anomaly defined by VTEM B-Field Z Component Channel 36.

Source: VanEgmond (2013)

Four diamond drill holes for a total of 1,605 m were drilled in 2011 by PGM Ltd. on the Triangle Property. The drill holes tested the VTEM anomaly and were subsequently surveyed by Crone Geophysics with borehole EM. The location of the drill holes and VTEM anomaly is shown on Map 2. The three holes that intersected gabbroic rocks, including TR-11-01 with an off-hole conductor, are located on claim 4283459 owned by Pavey Ark

The three PGM Ltd. holes on claim 4283459 intersected presumed Archean gabbro located at depths ranging from 237 to 267 m and beneath the Proterozoic diabase and Sibley Group sediments. In addition to analysis of Ni, Cu, Cr, and PGM's, PGM Ltd. completed whole rock major and trace element geochemistry on the drill core. Hole TR-11-01 intersected anomalous Cu-Ag-Ni mineralization in the diabase (up to 4,800 ppm Cu, 3.1 ppm Ag, 411 ppm Ni) and anomalous Ni-Cr-PGE mineralization in the gabbro (up to 405 ppm Ni, 511 ppm Cr, and 165 ppb Pt+Pd+Au). Holes TR-11-02 and -03 intersected rocks identified as metagabbro but with less anomalous Ni, Cu, Cr, and PGM's than hole TR-11-01.

A large off-hole EM conductor beneath the Sibley Group sediments was identified in hole TR-11-01 by Crone Geophysics. This anomaly is located on the north flank of a magnetic low and has not been drill tested. The off-hole anomaly has not been tested.

Mapping by Pavey Ark in 2013, indicated that the majority of the property is underlain by medium-grained diabase to coarse-grained, granophyric diabase that is indicative of the upper portion of a diabase sill. A 2.7 km long, one-line MaxMin-1 EM orientation survey using 400 m cables between transmitter and receiver was completed by Pavey Ark on claims 4266151, 4266152, 4266154 in 2015. The survey identified an anomaly at 333666mE 5486080mN (UTM) coincident with the south end of Danby Lake that appears to be a bedrock feature. The anomaly is located on the eastern flank of a magnetic low and has features that are suggestive of a narrow, steeply south dipping conductive body at depth.

5.0 Regional Geology

The Property is underlain by Middle Proterozoic Nipigon diabase/gabbro sills related to the Nipigon Embayment of the Mid-Continent Rift. The Nipigon sills intrude and overlie Archean metavolcanic and intrusive rocks of the Wabigoon Suprovince. Sibley Group sediments have been intersected by several but not all of the in drill holes that have penetrated the lower contact of the diabase. The area has been mapped by the OGS (Hart, 2006).

Both Archean and Proterozoic rocks in the area host significant Ni-Cu-PGM mineralization. The operating Lac des Iles Pd Mine (Archean) is located 41 km southwest, and the Middle Proterozoic Current Lake PGM deposit (ca. 750k oz PtEq) is located 85 km south-southwest of Danby Lake.

6.0 Petrography Drill Hole TR11-01

In 2016, Pavey Ark re-logged the core for holes TR-11-01, -02, -03, and -04 drilled by PGM Ltd. in 2011. The drill log for TR11-01 that is the subject of the current work is presented in Appendix 1.

Drill hole TR-11-01 intersected 237.8 m of the Proterozoic diabase sill with a well-defined lower chill margin, followed by 10 m of mixed rocks including fine-grained gabbro, medium-grained

gabbro, and possible mylonite bands. At 248.0 m the hole entered medium-grained, hornblende gabbro and remained in a sequence of dominantly hornblende gabbro and melagabbro to pyroxenite until the end of the hole at 506 m. Minor lithologies encountered in the lower part of the hole included minor leucocratic granitic interpreted as xenoliths, and feldspar porphyry that appears to be intrusive into the gabbro.

In November 2016, five samples were selected from DDH TR11-01 for polished thin sections to study sulphide and oxide mineralogy in the gabbro. The samples are numbered according to depth in DDH TR11-01 (Table 1). Sample TR11-01- 278.35 m and 307.7 m are from core assays that had anomalous to strongly anomalous Cr, Ni, Pt and Pd. Sample 307.7 is from a section of core with the highest Cr. After 307.7 m the Cr content drops. Sample 455.45 is the most ultramafic rock investigated in these sections and had the highest Pt, Pd and Ni. Sample 500.0 from near the base of the hole is a gabbro. This rock had the highest estimated modal sulphide content.

Table 6.1. Assays of core intervals for the polished thinsections.


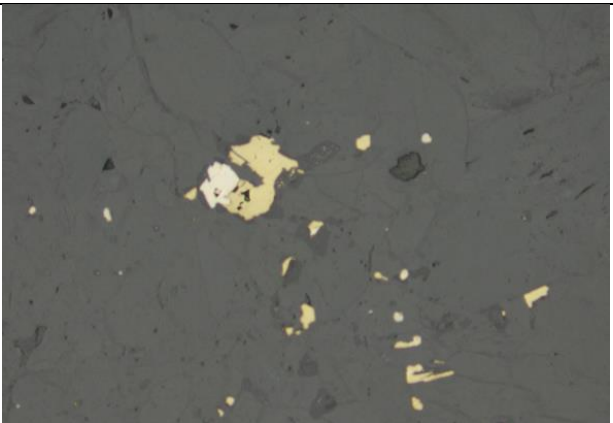

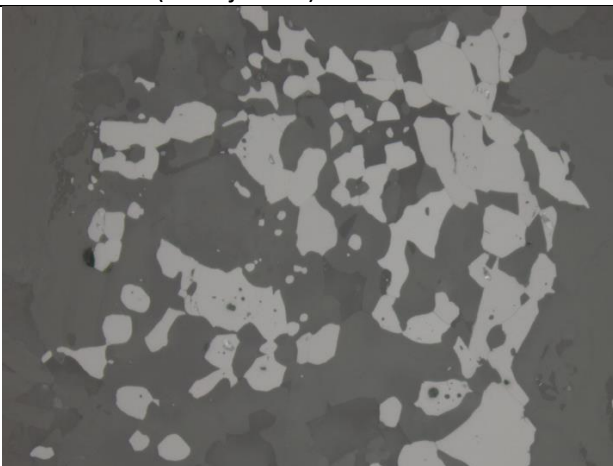
Thin section DDH & m	Assay Sample #	From (m)	To (m)	Cr (ppm)	Cu (ppm)	Ni (ppm)	Pt + Pd + Au (ppb)
TR11-01 – 278.35	J593110	278.0	279.5	338	161	188	53
TR11-01 – 307.7	J593111	306.5	308.0	397	160	204	60
TR11-01 – 449.95	J531620	449.5	451.0	161	234	204	74
TR11-01 – 455.45	J531623	454.0	455.5	43	161	328	165
TR11-01 – 500.0	J531655	499.5	501.0	220	190	148	39

Analyses by ALS Minerals for Platinum Group Metals Ltd. (2011) Certificates TB1128991, 11242240, 11245543, Cr, Cu, Ni by 4 acid digestion with ICP-MS finish, Pt, Pd, Au by 50g FA with ICP-MS finish. Analyses for Cr by fusion with ICP-MS finish for J593110 and J593111 were 610 and 690 ppm respectively.

Petrographically the gabbroic rocks below 248.0 m in hole TR11-01 are characterized as amphibole gabbro and meta pyroxenite. The rocks are composed of dominantly green pleochroic amphibole (actinolite/hornblende) and altered plagioclase with minor amounts of biotite and opaques. Plagioclase is generally saussurite altered and recrystallized but subhedral grains with preserved albite twinning are identified as labradorite in composition. Amphibole forms a felted recrystallized groundmass but some samples have preserved larger poikilitic grains that enclose plagioclase and probably represent a remnant ophitic igneous texture. Some larger amphibole grains have very pale pleochroic cores that may represent relict clinopyroxene. Possible relict clinopyroxene was identified in some samples.

Reflected light microscopy was done using an Olympus microscope at the OGS Laboratories, Sudbury. The reflected light microscopy shows that all samples contain minor to trace amounts of chalcopyrite and lesser pyrrhotite that frequently occur as composite subhedral grains to 0.1 mm and are interpreted to represent a magmatic sulphide segregation. Sulphides appear to be more abundant in gabbroic rocks (such as sample TR11-01 500.0) and less abundant in the most ultramafic sample (TR11-01 455.45). Oxides commonly occur as clusters of very fine subhedral to euhedral grains.

Photomicrographs for selected polished sections showing sulphide and oxide textures are shown in figure 6.1

Figure 6.1. Photomicrographs of selected polished sections	
	
<p>Fig 6.1a. TR11-01 500m Composite Cpy-Po grain, interpreted as magmatic sulphide, larger grain approx. 20 microns (20x objective)</p>	<p>Fig 6.1b. TR11-01 307.7 Composite Cpy-Py grain and fine Cpy included in amphibole, larger grain approx. 100 microns (5x objective)</p>
	
<p>Fig 6.1c. TR11-01 500m Cpy intergrown with biotite, interpreted as late magmatic, larger cluster approx.. 100 microns (5x objective)</p>	<p>Fig 6.1d. TR11-01 500m Cluster of subhedral oxide minerals, cluster is approx. 100 microns diameter (20x objective)</p>

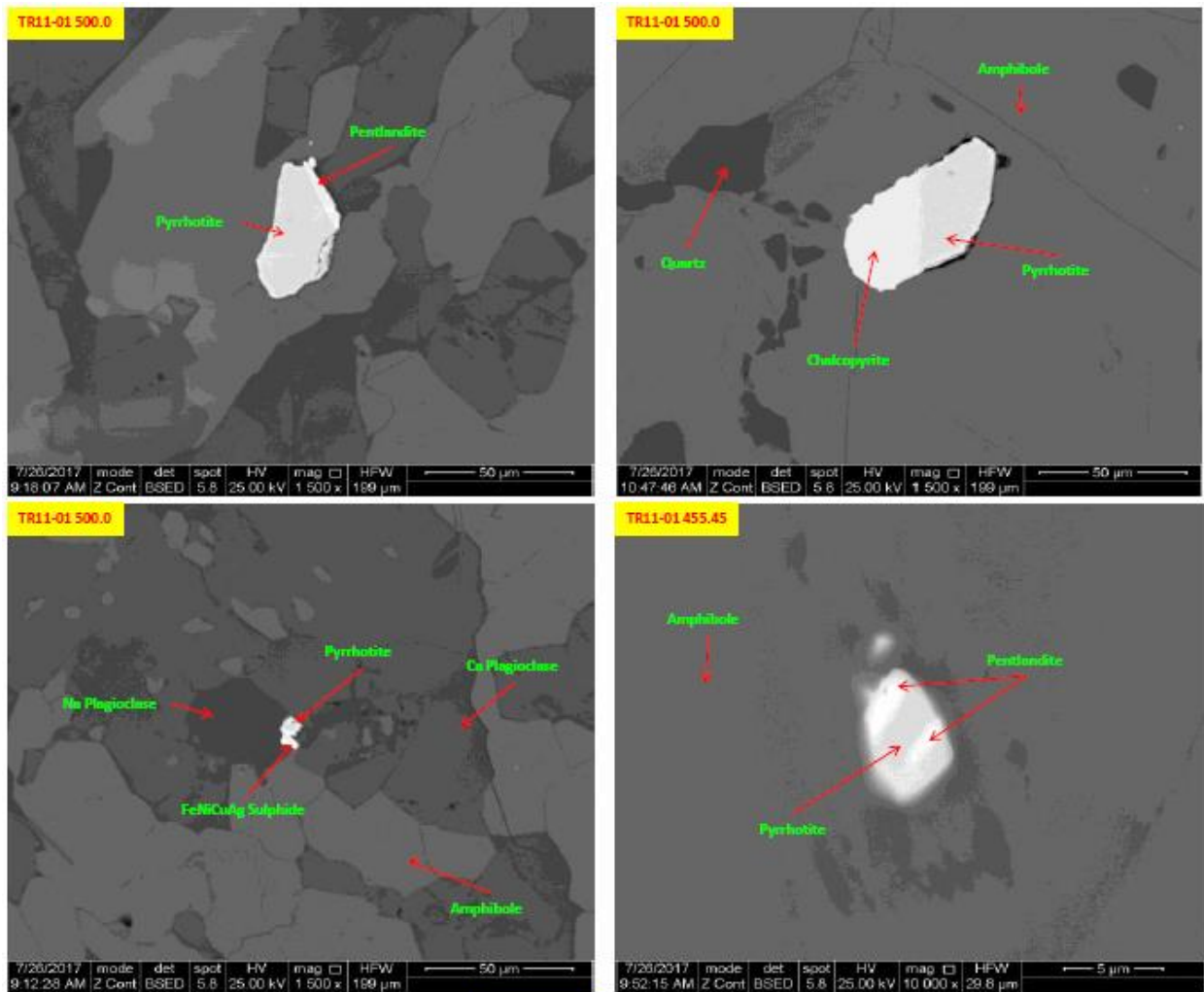
7.0 Scanning Electron Microscopy (SEM)

Activation Laboratories (ActLabs) in Ancaster Ontario used a MLA FEI 650F scanning electron microscope (SEM) to examine polished sections TR11-01 307.7, TR11-01 455.45 and TR11-01 500.0. The work was carried out in July 2017. The samples were initially scanned using an XMOD line scan to quantify modal mineralogy. Representative back scatter electron (BSE) images were collected to evaluate textures of sulphide grains and representative energy dispersive spectra (EDX Spectra) were collected to determine mineral species. Results are presented in Appendix 3.

The SEM analysis identified that amphibole (63.9 to 76.9%), chlorite (0.7 to 26.6%), and plagioclase (0.2 to 32.1%) are the dominant silicate phases. Ilmenite (0.2 to 0.75%) is the dominant oxide phase. The modal abundance of sulphides is low, however, sulphide phases include pyrrhotite, chalcopyrite, pentlandite, minor pyrite and a trace of FeNiCuAg sulphide.

Backscatter electron images show that composite pentlandite/pyrrhotite and chalcopyrite/pyrrhotite grains are common, supporting a primary magmatic origin for the sulphides (Figure 6.2).

Figure 6.2 Backscatter electron images for sulphide grains in polished sections



8.0 Electron Probe Micro Analysis (EPMA)

Activation Laboratories (ActLabs) in Ancaster utilized a JEOL microprobe to obtain quantitative analyses of amphiboles and oxides from polished sections TR11-01 307.7 and TR11-01 500.0. The work was carried out in August 2017. This work was undertaken primarily to determine the

host mineral for the elevated Cr content in the gabbro, since no chromite was identified in the SEM study. Results are presented in Appendix 4.

Thirteen analyses of amphibole in section TR11-01 307.7 and 10 analyses in section TR11-01 500.0 indicated that the amphibole is hornblende. Hornblende in sample TR11-01 307.7 has high Cr content with up to 0.85% Cr₂O₃ moderately high Mg/Fe ratios. This suggests that hornblende is probably the main phase hosting Cr in these rocks.

Analyses of oxides in TR11-01 307.7 and TR11-01 500.0 indicate that ilmenite is the main oxide phase. No chromite was identified

9.0 Conclusion and Recommendations

The Danby Triangle property is underlain by outcrops exposing the upper part of an approximately 260 m thick sub-horizontal Proterozoic Nipigon diabase sill. An Archean amphibole gabbro/meta-pyroxenite intrusion with drill intersections of anomalous Cr, base and precious metal contents underlies the diabase in central part of the Property and continues to the northeast.

The Archean gabbro and meta-pyroxenite are composed of dominantly green pleochroic hornblende and altered plagioclase with chlorite, biotite, ilmenite and sulphides. Plagioclase is generally saussurite altered and recrystallized but subhedral grains with preserved albite twinning are identified as labradorite in composition. Some samples have preserved larger poikilitic amphibole grains that enclose plagioclase and probably represent a remnant ophitic igneous texture. Possible relict clinopyroxene was locally identified. Backscatter electron images show composite pentlandite/pyrrhotite and chalcopyrite/pyrrhotite grains are common, supporting a primary magmatic origin for the sulphides. Microprobe indicate the Cr is likely hosted by hornblende and the main oxide phase is ilmenite.

The following attributes indicate that the Archean gabbro/metapyroxenite intrusion is prospective for magmatic Cu-Ni-Pt-Pd and Cr mineralization:

- Strongly anomalous Cu, Cr, Pt, Pd, Au lake sediment geochemistry documented in the area of the property and to the immediate SW;
- Anomalous Cr, Ni, Cu, Pt+Pd+Au in the gabbro/metapyroxenite with values up to 511 ppm Cr, 428 ppm Ni, 405 ppm Cu and 131 ppb Pt+Pd+Au;
- Magmatic sulphide assemblages consisting of pyrrhotite+chalcopyrite+pentlandite;
- Magnetic inversions model a large magnetic body with a depth of 1 to 2 km;
- Strong airborne VTEM conductor and off-hole BHEM response that not explained by previous drill holes;
- Proximity to known Pd-Pt-Cu-Ni mineralization at the Lac des Iles Mine, located 41 km SW of the Danby Triangle Property;
- Property is located on flank of regional gravity high to the north and located over a strong positive residual magnetic anomaly.

A follow up geophysical program with a 200 m spaced grid and ground PEM-type survey is recommended to better resolve the conductive targets identified by VTEM, BHEM and Max-Min surveys that are interpreted as occurring on the northwest margin of the Archean gabbro intrusion. Further drilling is warranted if the grid based geophysics improves the resolution of conductive targets.

Acknowledgement

This work was funded by the Ontario Exploration Corporation and the financial support is gratefully acknowledged.

10.0 References

Hart, T.R. 2006. Precambrian geology of the southwest portion of the Nipigon Embayment, northwestern Ontario; Ontario Geological Survey, Preliminary Map P.3580, scale 1:100 000.

Jackson, J.E. and Dyer, R.D. 2000. Garden–Obonga Lake area high density lake sediment and water geochemical survey, northwestern Ontario; Ontario Geological Survey, Open File Report 6009, 95p.

Ontario Geological Survey 2000. Garden–Obonga Lake area lake sediment survey: gold and PGE data; Open File Report 6028, 76p.

Ontario Geological Survey 2004a. Airborne magnetic and gamma-ray spectrometric surveys, residual magnetic field and Keating coefficients, Lake Nipigon Embayment, Map 81816, 1:50000.

Ontario Geological Survey 2004b. Ground gravity survey, terrain-corrected Bouguer anomaly, northern part, Lake Nipigon Embayment area, Map 81931, scale 1:100000.

Van Egmond, R., 2013, Assessment Report on the Triangle Property, Kitchen And Cheeseman Lake Areas, Thunder Bay Mining District, Ontario, for Platinum Group Metals Ltd.

11.0 Statement of Qualifications

I, Richard H. Sutcliffe, of 100 Broadleaf Crescent, Ancaster, Ontario, do hereby certify that:

I am a graduate of University of Toronto (B.Sc. Geology, 1977, M.Sc Geology 1980), and a graduate of University of Western Ontario (Ph.D. Geology, 1986) and I have been practising my profession as a geologist since.

I am a member with the Association of Professional Geoscientists of Ontario (#852).

I have direct knowledge of the exploration work performed for this assessment and I am indirectly the owner of the claims on which the work was performed.

Signed

"R.H. Sutcliffe"

Richard H. Sutcliffe, Ph.D., P.Geo.

September 12, 2017

Ancaster, Ontario

Appendix 1 – Drill Log

Pavey Ark Minerals Inc.				
Property	Danby Triangle, Thunder Bay Mining Division			
Claim Number	4283459			
Drill Hole Number	TR11-01 (drilled by Platinum Group Metals Ltd.)			
Hole Length and core size	506 m, NQ			
Location	UTM 16 NAD 83 335942mE, 5487317mN (Garmin 76Csx) (re-confirmed by Garmin Etrex 20)			
Collar Elevation	410 m (Google Earth)			
Hole dip and azimuth	Vertical			
Target	VTEM conductor			
Date started/Date completed	April 12, 2011/April 21, 2011			
Drilling company	Cobra Drilling			
Logged by:	Originally logged by James Seals (April 30, 2011), relogged and sampled for petrography by Richard Sutcliffe (September 21, 22, 2016). Re-Sampled for polished sections by Richard Sutcliffe (November 23, 2016)			
Core Storage	Storage yard at 660 Squier Street, Thunder Bay			
Downhole survey instrument	Reflex			
	Depth	Dip	Azimuth	Mag
Downhole Measurements	17	-89.8	285.7	57540
	350	-89.4	314.8	57080

From	To	Code	Description	Samples				Photo
				From	To	Length	ThinSect, PolThinS	
0.00	0.60		Overburden					
0.60	38.00	DB cg	Coarse grained (cg) to pegmatitic diabase (DB) with red hematite alteration, grades into medium grained diabase					3096, 3097
38.00	61.90	DB mg	Medium grained (mg) diabase					
61.90	62.35		Chlorite-sulphide veinlet with cpy					3094, 95
62.35	117.80	DB mg	Medium grained diabase, coarse magnetite in upper part, feldspar foliated at 90° TCA					
117.80	118.50	vn	Coarse grained pegmatitic vein (vn)					3098
118.50	197.90	DB mg	Uniform medium grained diabase					
197.90	198.50		Coarse grained, sulphide rich vein, at low angle to core axis (TCA)					3099,3100
198.50	236.5	DB mg	Medium grained diabase, 2 to 3 mm amphibole filled fracture at 225 m is					

			first sign of bottom of sill approaching					
236.50	237.50	DB fg	Medium grained diabase grades into fine grained (fg) aphanitic diabase with cooling fractures,					
237.50	237.80	DB ap	Aphanitic (ap) chilled diabase with polygonal fractures, sharp contact at 237.80					3102, 3103
237.80	247.50		Chaotic zone, looks like mixture of chilled diabase mixed with underlying rocks, no obvious Sibley group sed, granitic inclusion at 243.6					3105
247.50	248.00	FT	Mylonitic or flow banded zone, 90° TCA					3104
248.00	252.40	GB mg	Medium grained hornblende gabbro (GB), foliated					
252.40	252.50		Another mylonite or flow banded zone					
252.50	265.50	GB mg	Medium grained hornblende gabbro, foliated, more uniform in this interval	256.9	257.0	0.1	TS	
265.50	266.1	GR	Granitic (GR) xenolith, upper contact sharp, lower contact has flow banded, mylonite texture, 80° TCA					3106, 3108, 3109
266.1	283.2	GB mg	Medium grained hornblende gabbro, relatively homogenous, foliated at 30° TCA	271.9	272.0	0.1	TS	
				278.25	278.35	0.1	PTS	
				280.9	281.0	0.1		
283.2	283.6	vn	Felsic veins(?) at 30° TCA associated with shearing					3110, 3111
283.6	317.3	Hb GB	Medium grained hornblende gabbro, non-magnetic, foliated, 30° TCA, relatively homogenous	294.9	295.0	0.1		
				307.6	307.7	0.1	PTS	
				310.35	310.50	0.15	TS	
317.3	317.4	vn	Quartz vein, sheared margins, 45° TCA					
317.4	324.9	GB mg	Medium grained gabbro, becomes more mafic toward base					
324.9	325.0		Pyrite carb vein					3113
325.0	329.0	PX	Meta pyroxenite, medium grained, locally minor chalcopryrite	328.0	328.1	0.1	TS	
329.0	329.2	sh	Shear zone (sh) with silica alteration at 30° TCA					
329.2		PX	Meta pyroxenite (PX), medium grained, missing boxes 79 to 82					
358.9	365.6	GB mg	Medium grained meta gabbro					
365.6	366.3		Feldspar porphyry dike, purplish colour, 1 to 3 mm fsp phenos and 1 to 2 mm amph phenos, sharp contact 60° TCA	365.75	365.85	0.1		
366.3	377.4	GB mg	Medium grained hornblende gabbro					
377.4	377.6	sh	Strong shear, 30° TCA					
377.6	378.2	FP	Feldspar porphyry (FP) dike, sharp contact					
378.2	385.5	PX	Medium grained mela gabbro/pyroxenite, foliation 45° TCA					
385.5	386.5	GR	Leuco granitic dike, contact at 80° TCA					

386.5	415.7	PX	Very uniform, competent, medium grained metapyroxenite, with characteristic 4-5 mm poikilitic grains (relict cpx?)	402.1	402.2	0.1		
415.7	415.8	sh	Narrow sheared zone with quartz veins, 30° TCA					
415.8	447.0	PX	medium grained metapyroxenite, foliated at 30° TCA	415.9	416.0	0.1		
				446.35	446.50	0.15		
447.0	447.2	sh	Shear with quartz vein					
447.2	491.6	PX	Competent, medium grained gabbro to metapyroxenite, latter with characteristic 4-8 mm poikilitic grains (relict cpx?), first sample gabbro, others pyroxenite	449.0	449.2	0.2	TS	
				449.85	449.95	0.1	PTS	
				455.35	455.45	0.1	PTS	
				481.3	481.4	0.1	TS	
				488.8	488.9	0.1	TS	
491.6	492.0	GR	Leuco granitic dike, 80° TCA					
492.0	496.0	PX	Medium grained, meta pyroxenite					
496.0	496.2	sh	Strong shear, 25° TCA					
496.2	506.0	PX	Medium grained, meta pyroxenite	500.9	501.0	0.1	PTS	
EOH								

APPENDIX 2 – PETROGRAPHIC REPORT

Danby Triangle Project – Petrographic Report – Polished Thinsections

Five samples were selected for polished thin sections from drill hole TR11-01 to evaluate Archean gabbroic and ultramafic rocks located beneath the Proterozoic diabase sill that covers the Danby Triangle property. The polished thin section work supplements an earlier petrographic study of regular thin sections by transmitted light.

DDH Hole TR11-01 – This is a vertical 506 m NQ hole drilled by Platinum Group Metals in 2011. The hole is located on Pavey Ark Minerals claim 4283459, Thunder Bay mining division at UTM16 335942mE 5487317mN. The core is stored at 660 Squier Street, Thunder Bay and was sampled by the author on November 23, 2016.

Sample TR11-01 – 278.35 m - Medium-grained amphibole gabbro

Transmitted Light

Actinolite/hornblende - 70% - Pale green pleochroism, subhedral to anhedral grains, as large as 4 mm to clusters of 0.1 mm grains

Plagioclase – 25% - altered plagioclase, interstitial, altered saussuritized patches, some limited relict twinning visible, may be intercumulus

Opagues – 2% - clusters of fine grains in both hornblende and altered plagioclase

Sphene, apatite – TR

Texture – Recrystallized, inequigranular, possible relict cumulate texture

Reflected Light

Chalcopyrite – TR – Subhedral grains to 0.1 mm typically included in amphibole

Oxides – 1% - Clusters of fine grains included in amphibole and plagioclase

Sample TR11-01 – 307.7 m – Medium-grained amphibole gabbro

Transmitted Light

Actinolite/hornblende - 70% - Light to moderate green pleochroism, larger 4 mm subhedral grains to sub-mm clusters of grains, foliated, no evidence of relict pyroxene

Plagioclase – 25% - altered intercumulus, saussuritized, polygonal grains, locally Calsbad, albite twins

Chlorite/biotite -2% - chlorite intergrown with brown biotite, locally present interstitial to amphibole

Opagues – 2% - discrete 0.2 to 0.3 mm grains, subhedral, associated with chlorite/biotite

Sphene – TR

Texture – hypidiomorphic, inequigranular, largely recrystallized

Reflected light

Chalcopyrite and pyrrhotite – 1% - Cpy more abundant than Po, forms subhedral grains to 0.2 mm, some sulphides interstitial to biotite

Oxides – 1% -

Sample TR11-01 – 449.95 m – Medium-grained amphibole mela-gabbro

Transmitted Light

Actinolite/hornblende - 65% - Light to moderate green pleochroism, 1 mm to 4 mm euhedral prismatic grains and clusters of subhedral grains, foliated, no evidence of relict pyroxene

Plagioclase – 30% - recrystallized, heavily saussuritized, limited Carlsbad, albite twinning visible
Opaques – 5% - subhedral to euhedral, typically 1 to 2 mm clusters of grains intergrown with actinolite, probably representing breakdown of primary mineralogy

Texture – hypidiomorphic, foliated, largely recrystallized

Reflected Light

Chalcopyrite and pyrrhotite –TR – Subhedral, frequently included in amphibole, Cpy more abundant than Po

Oxides – 2% - subhedral to euhedral 0.1 mm grains in clusters

Sample TR11-01 – 455.55 m – Meta Pyroxenite

Transmitted Light

Actinolite/hornblende - 90% - Light to moderate green pleochroism, relict grains up to 2 mm, much of rock is fine felted amphibole with less than 0.1 mm anhedral recrystallized grains

Relict Clinopyroxene – TR – associated with amphibole masses

Plagioclase – 20% - recrystallized, heavily saussuritized

Chlorite/biotite –5% - 0.5 to 1 mm clusters with sphene and opaques

Opaques – 2% - associated with chlorite/biotite, varies from discrete grains to clusters of grains intergrown with chlorite/biotite

TR - sphene

Texture –inequigranular, largely recrystallized

Reflected Light

Chalcopyrite and pyrrhotite – TR – Subhedral, intercumulus, Cpy more abundant than Po

Oxides – 1% - anhedral

Sample TR11-01 – 500.0 m – Medium-grained amphibole gabbro

Transmitted Light

Actinolite/hornblende - 50% - Light to moderate green pleochroism, mainly 1 to 2 mm subhedral grains and larger clusters of subhedral grains

Plagioclase – 45% - mostly interstitial, commonly anhedral granular, 0.1 to 1.0 mm grains, some larger grains with albite twins, 27° extinction indicates labradorite An50

Opaques – 5% - 1 mm clusters of fine grains

Texture – inequigranular, hypidiomorphic, recrystallized with relict igneous texture

Reflected Light

Chalcopyrite and pyrrhotite – 2% - Subhedral, 0.1 mm, composite grains of Cpy and Po, magmatic sulphide, possible pentlandite, some anhedral cpy intergrown with biotite, possible late magmatic

Oxides -3% - Clusters of fine euhedral grains, possibly chromite?

R.H. Sutcliffe

July 21, 2017

APPENDIX 3. ACTLABS SEM REPORT –

see separate attachment

APPENDIX 4. ACTLABS ELECTRON PROBE MICRO ANALYSIS (EPMA) REPORT

See separate attachment

APPENDIX 5. EXPENDITURES

Category	Units	Unit Cost	HST	Total
Geologist				
R.H. Sutcliffe – logging, petrography, sample prep	5 days	\$650/day	\$422.50	\$3,672.50
R.H. Sutcliffe – interp and report writing	2 days	\$650/day	\$169.00	\$1,469.00
Lab services				
Vancouver Petrographics – polished thins			\$52.65	\$457.65
ActLabs, SEM mineralogy			\$39.00	\$339.00
ActLabs, Microprobe work			\$97.50	\$847.50
Travel and accommodation				
Travel – personal vehicle, Ancaster/Sudbury/Ancaster July 18,2017	930 km	\$0.50/km		\$465.00
Travel –air fare YYZ/YQT/YYZ – Nov 23/25, 2017			\$72.96	\$656.81
Truck rental – Thunder Bay, Nov 23/24, 2017			\$39.14	\$340.19
Office Expenses				
Courier (Canada Post) – ship rock samples				\$29.06
Copying (Staples)				\$37.82
TOTAL EXPENDITURES				\$8,314.53

Claim	Expenditure	Assigned	Order to be cut back
4283459	\$8,315	192	
4266151		6,123	
4266152		2,000	
Total	8,315	8,315	

Prepared by: Rino Bindi B.Sc.
Reviewed by: Mahdi Ghobadi Ph.D



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CLIENT ID: RICHARD H. SUTCLIFFE PH.D, P.GEO, PAVEY ARK MINERALS INC.
ACTLABS ID: A17-07691, JULY 2017

The MLA analysis was performed on the 3 samples listed.

METHODS USED

The received thin sections were carbon coated for analysis.
No further preparation on the samples was done at Actlabs.

The mineralogical analysis was done by FEI MLA 650F, using XMOD (line scan) for modal mineralogy data. The Field Emission Gun was used at an accelerating voltage of 25 kV and a spot size of 5.8. with working distance of 13 mm. The mineral reference library was customized for this project.

This report is subject to the following terms and conditions:
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Actlabs ID	Client ID
A17-07691-1	TR11-01 307.7
A17-07691-2	TR11-01 500.0
A17-07691-3	TR11-01 455.45

Data Reported

Modal 'Mineralogy' Phase identification in one table.

Select BSE images of samples.
Select EDX spectra of minerals.

Modal Mineralogy

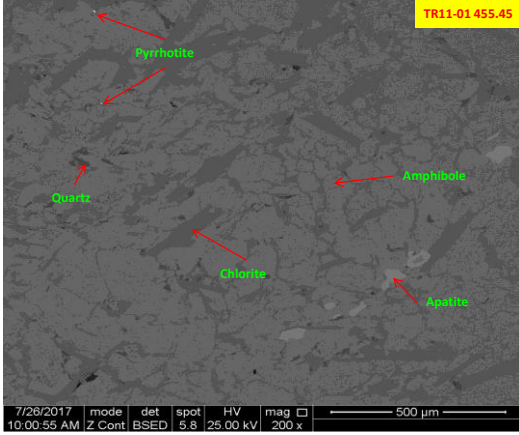
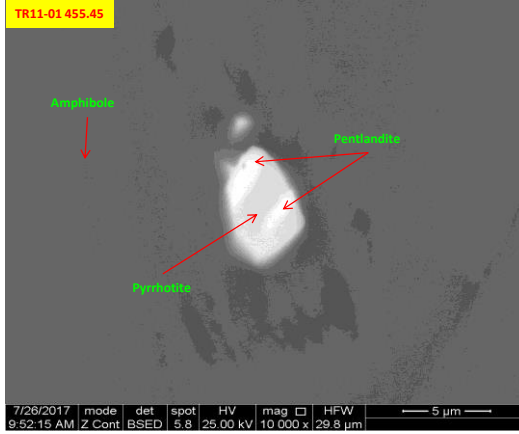
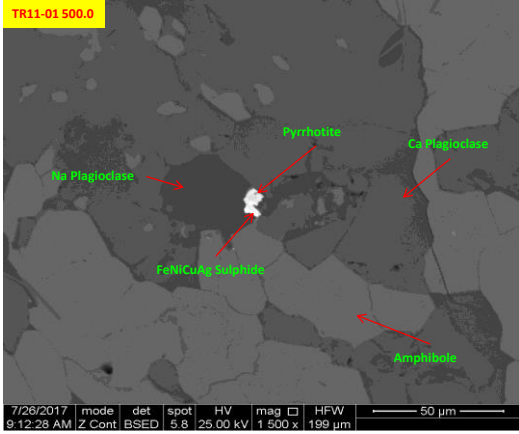
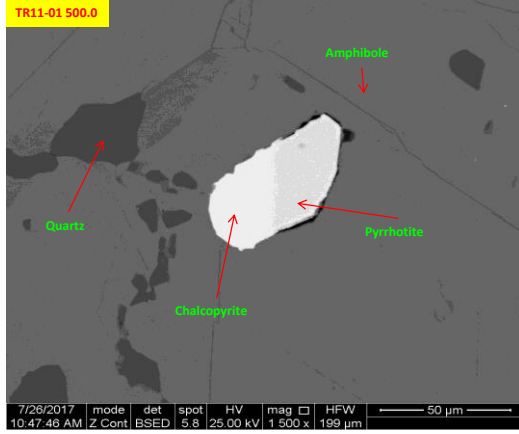
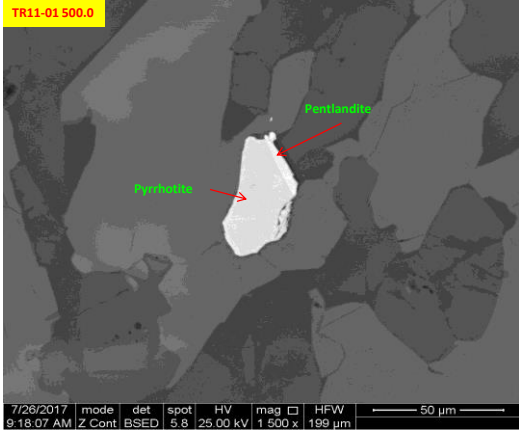
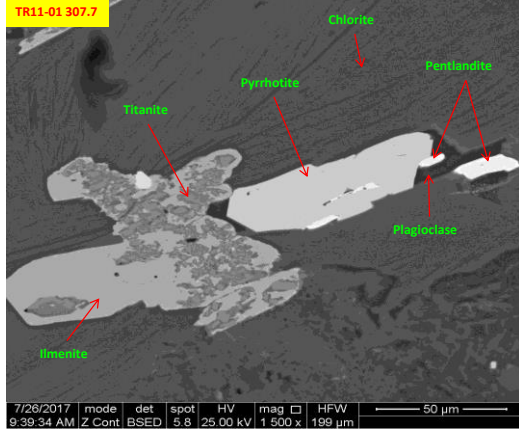
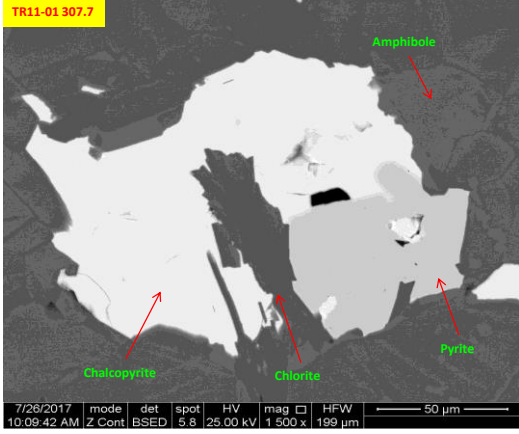
Mineral Wt%		TR11-01 307.7	TR11-01 500.0	TR11-01 455.45
Client ID				
ActLabs ID		1	2	3
Sulphides	FeNiCuAg Sulphide (Argentopentlandite ?)	0.01	n.d.	n.d.
	Pentlandite	0.02	0.01	n.d.
	Pyrrhotite	0.12	0.17	n.d.
	Chalcopyrite	0.04	0.03	n.d.
	Pyrite	0.03	0.01	0.00
Silicates	Zircon	<0.01	<0.01	<0.01
	Quartz	n.d.	1.36	0.47
	Plagioclase	19.82	32.09	0.25
	K-Feldspar	0.18	0.01	0.00
	Biotite	0.30	0.01	0.99
	Chlorite	1.40	0.73	26.59
	Amphibole	76.91	63.93	71.05
	Epidote	0.60	0.49	0.00
	Titanite	0.11	0.01	0.01
Oxides & Hydroxides	Ti Oxide	0.04	n.d.	n.d.
	Ilmenite	0.26	0.75	0.25
Others	Apatite	0.05	0.11	0.07
	Others	0.11	0.28	0.30
Total		100	100	100

Note:

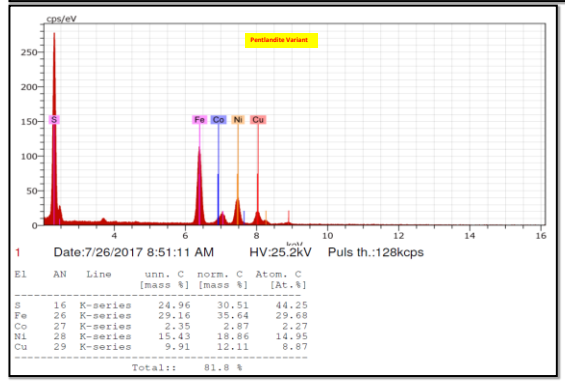
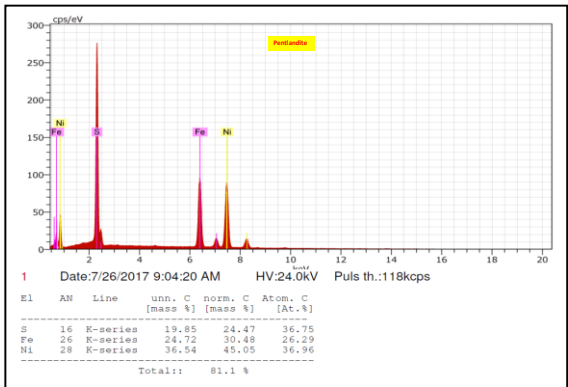
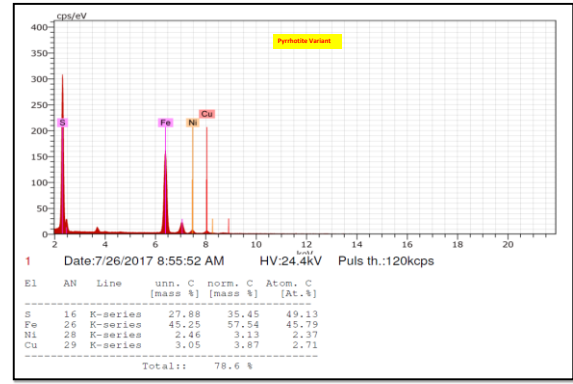
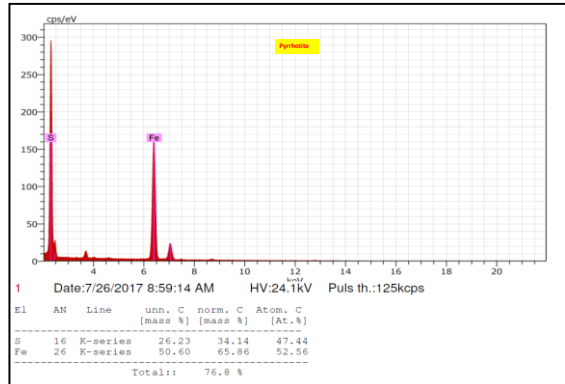
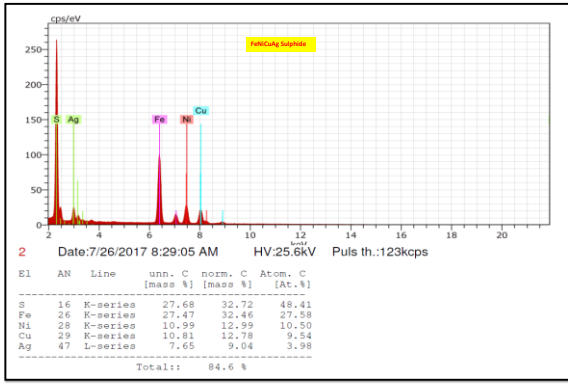
The "Plagioclase" entry contains Ca and Na plagioclase.

The "Chlorite" entry includes MgFe chlorites.

The "Others" entry includes mixed and unclassifiable phases.



EDX spectra



Reviewed by: Mahdi Ghobadi Ph.D

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Actlabs ID	Client ID
A17-07691-1	TR11-01 307.7
A17-07691-2	TR11-01 500.0

CLIENT ID: RICHARD H. SUTCLIFFE PH.D, P.GEO, PAVEY ARK MINERALS INC.
ACTLABS ID: A17-07691, AUGUST 2017

EPMA analysis was done on two samples listed.

METHODS USED

The analysis was done on the thin sections. Representative Amphiboles and oxide (Ilmenite) were selected for the test.

The measurements were done using a JEOL microprobe at 15 kV with ZAF correction. The results are presented in %.

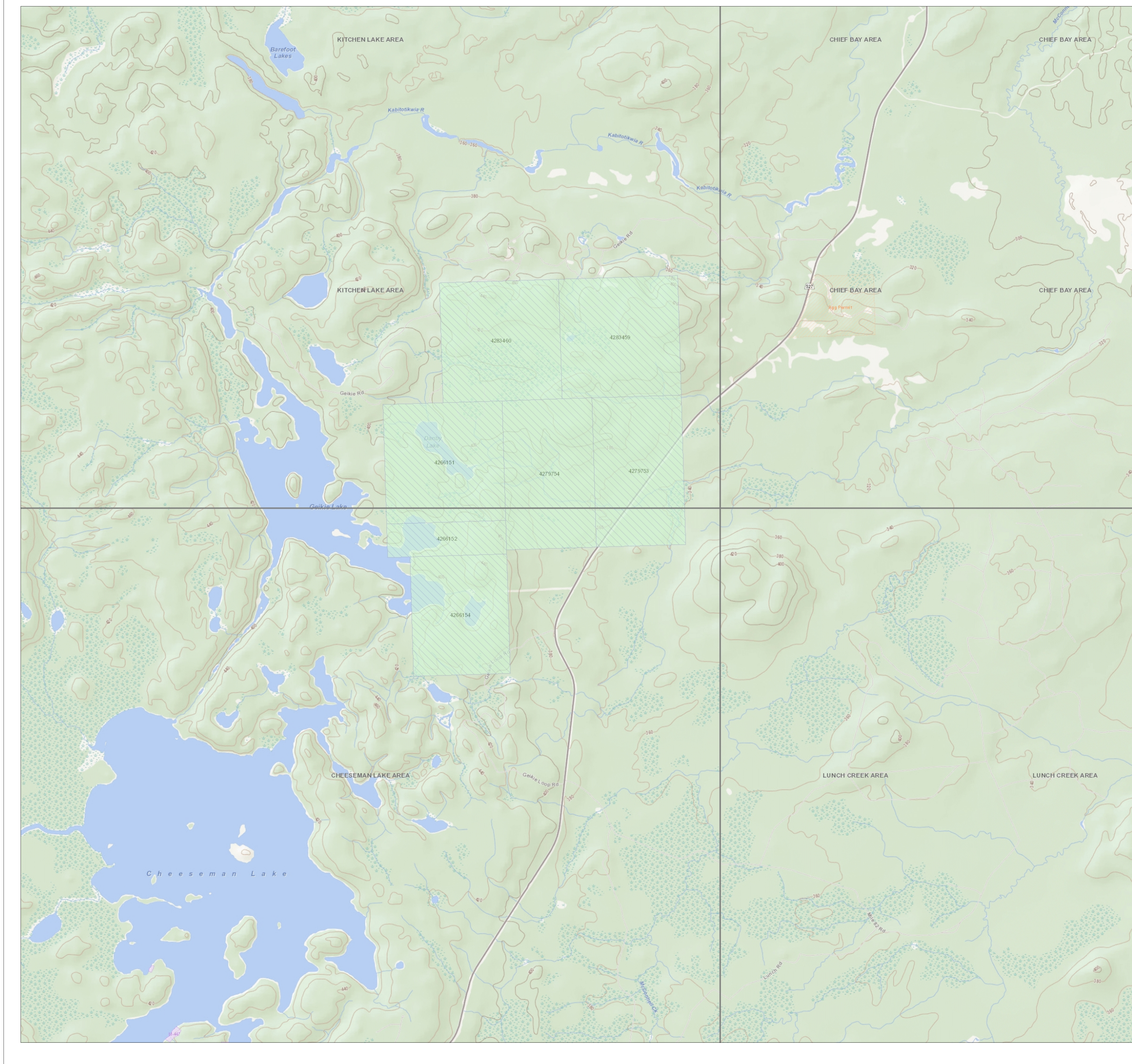
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ANALYSIS	SAMPLE	SiO2	TiO2	Al2O3	Cr2O3	FeO	MgO	MnO	K2O	CaO	Na2O	TOTAL	
1	TR11-01 307.7	48.17	0.52	8.32	0.46	13.58	13.47	0.11	0.23	12.25	0.86	97.99	
2	TR11-01 307.7	48.02	0.26	7.00	0.27	13.66	15.17	0.14	0.12	12.39	0.70	97.72	
3	TR11-01 307.7	48.38	0.75	8.14	0.05	13.96	14.10	0.15	0.24	11.85	0.79	98.40	
4	TR11-01 307.7	48.28	0.44	10.26	0.85	13.60	12.49	0.12	0.23	11.90	0.92	99.08	
5	TR11-01 307.7	46.74	0.51	10.93	0.04	14.82	12.35	0.11	0.22	11.75	0.97	98.45	
6	TR11-01 307.7	CORE	48.23	0.31	7.20	0.47	12.77	14.92	0.17	0.12	12.22	0.71	97.13
7	TR11-01 307.7	RIND	48.94	0.24	8.29	0.32	13.56	14.29	0.10	0.18	11.58	0.86	98.35
8	TR11-01 307.7	CORE	48.96	0.49	7.20	0.00	13.82	14.78	0.10	0.25	11.99	0.77	98.35
9	TR11-01 307.7	RIND	48.20	0.64	10.46	0.02	14.03	12.17	0.09	0.27	11.99	1.06	98.93
10	TR11-01 307.7	48.35	0.37	7.50	0.15	12.95	14.99	0.16	0.14	12.41	0.68	97.67	
11	TR11-01 307.7	50.04	0.35	7.28	0.00	12.33	14.83	0.15	0.16	12.69	0.71	98.53	
12	TR11-01 307.7	46.85	0.43	8.85	0.30	13.40	14.38	0.11	0.14	12.16	0.70	97.32	
13	TR11-01 307.7	48.25	0.49	8.87	0.12	13.34	13.79	0.16	0.27	11.74	0.87	97.88	
14	TR11-01 500.0	49.83	0.47	6.32	0.00	15.41	13.84	0.18	0.22	11.10	0.71	98.07	
15	TR11-01 500.0	51.03	0.49	6.68	0.06	14.30	13.21	0.14	0.22	10.74	0.64	97.50	
16	TR11-01 500.0	51.34	0.43	8.43	0.00	12.94	12.49	0.25	0.20	11.18	0.70	97.96	
17	TR11-01 500.0	50.04	0.95	7.95	0.00	13.53	12.58	0.20	0.25	11.92	0.76	98.19	
18	TR11-01 500.0	51.20	0.60	9.17	0.02	11.23	11.71	0.16	0.25	12.19	0.81	97.33	
19	TR11-01 500.0	50.89	0.87	7.54	0.04	12.35	12.87	0.09	0.27	12.19	0.68	97.78	
20	TR11-01 500.0	49.37	0.51	9.35	0.02	14.18	11.62	0.12	0.27	11.75	0.93	98.11	
21	TR11-01 500.0	49.39	0.58	7.42	0.02	12.03	13.90	0.26	0.28	12.72	0.68	97.26	
22	TR11-01 500.0	50.37	0.41	6.89	0.01	12.85	13.87	0.18	0.25	11.96	0.65	97.43	
23	TR11-01 500.0	50.26	0.51	7.12	0.06	12.19	13.94	0.15	0.29	12.02	0.55	97.09	

ANALYSIS	Sample	Comments	SiO2	TiO2	Al2O3	Cr2O3	FeO	MnO	MgO	ZnO	NiO	Nb2O5	TOTAL
1	TR11-01 307.7		0.05	50.76	0.06	0.00	45.55	1.86	0.04	0.02	0.00	0.06	98.40
2	TR11-01 307.7	OXIDES IN FRACTURE	0.64	52.98	0.10	0.00	43.90	1.74	0.05	0.00	0.11	0.00	99.52
3	TR11-01 307.7		0.04	51.01	0.04	0.08	45.47	1.96	0.04	0.09	0.00	0.00	98.73
4	TR11-01 307.7		0.05	51.49	0.03	0.00	45.34	1.84	0.07	0.13	0.02	0.03	99.00
5	TR11-01 307.7		0.00	52.40	0.00	0.02	44.27	1.60	0.06	0.00	0.00	0.00	98.36
6	TR11-01 307.7		0.03	54.04	0.01	0.00	43.39	1.87	0.04	0.00	0.00	0.01	99.38
7	TR11-01 307.7		0.04	53.64	0.00	0.00	44.47	1.71	0.08	0.00	0.00	0.00	99.93
8	TR11-01 307.7		0.03	53.18	0.00	0.00	43.60	1.73	0.07	0.03	0.11	0.00	98.76
9	TR11-01 307.7		0.02	52.76	0.00	0.04	42.53	1.69	0.04	0.09	0.00	0.02	97.19
10	TR11-01 500.0		0.03	52.68	0.00	0.00	44.35	0.78	0.24	0.00	0.00	0.09	98.16
11	TR11-01 500.0	OXIDES IN FRACTURE	0.42	52.38	0.18	0.00	44.62	0.94	0.32	0.00	0.04	0.04	98.94
12	TR11-01 500.0	OXIDES IN FRACTURE	0.06	53.92	0.03	0.00	43.79	0.97	0.17	0.00	0.06	0.07	99.08
13	TR11-01 500.0		0.02	53.23	0.00	0.00	44.55	0.91	0.30	0.00	0.00	0.01	99.03
14	TR11-01 500.0		0.00	53.94	0.01	0.02	44.70	0.89	0.30	0.00	0.00	0.04	99.91
15	TR11-01 500.0		0.03	53.85	0.02	0.00	45.09	0.84	0.26	0.00	0.03	0.03	100.15
16	TR11-01 500.0		0.03	53.53	0.00	0.02	43.41	0.86	0.31	0.00	0.00	0.01	98.17
17	TR11-01 500.0		0.01	53.58	0.05	0.01	45.28	0.88	0.30	0.01	0.00	0.00	100.11
18	TR11-01 500.0		0.49	54.02	0.01	0.02	43.33	0.91	0.26	0.00	0.00	0.02	99.07
19	TR11-01 500.0		0.02	53.35	0.00	0.00	43.40	0.84	0.25	0.00	0.02	0.00	97.88
20	TR11-01 500.0		0.05	53.55	0.01	0.00	44.66	0.84	0.23	0.00	0.10	0.00	99.44
21	TR11-01 500.0		0.03	52.87	0.00	0.01	44.30	0.97	0.23	0.02	0.00	0.00	98.44



Ontario Ministry of Northern Development and Mines
Mining Lands Tenure Map



Administrative Districts

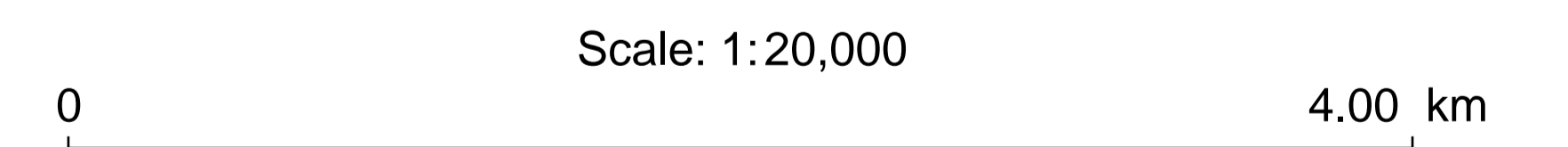
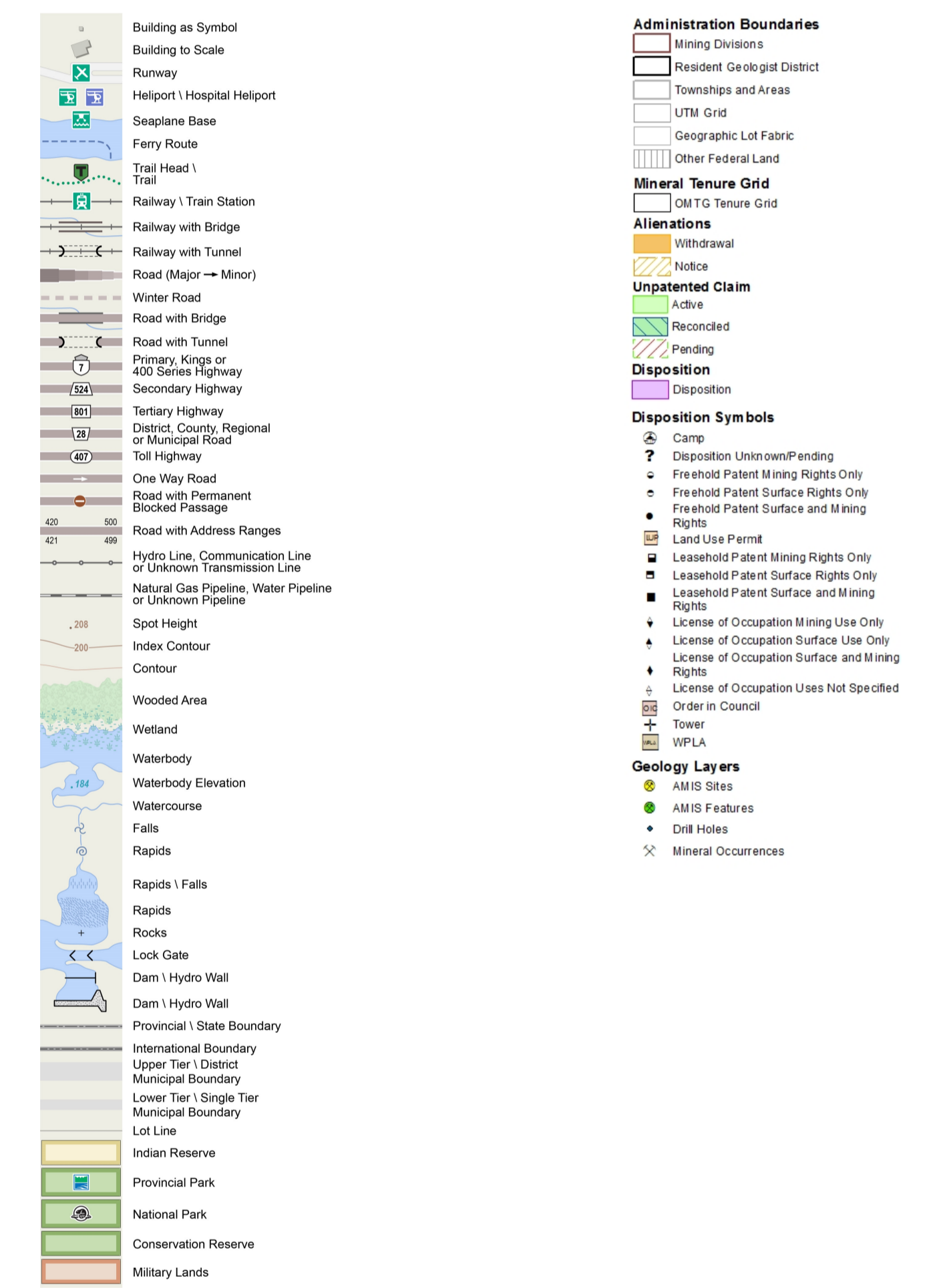
Township
CHEESEMAN LAKE AREA

Mining Division
Thunder Bay

Land Registry
THUNDER BAY

MNRF District Office
THUNDER BAY

Topographic



Map Datum: NAD 83
Projection: Web Mercator



Those wishing to stake mining claims should consult with the Provincial Mining Recorders' Office of the Ministry of Northern Development and Mines for additional information on the status of the lands shown hereon. This map is not intended for navigational, survey, or land title determination purposes as the information shown on this map is compiled from various sources.

Completeness and accuracy are not guaranteed.

Additional information may also be obtained through the local Land Titles or Registry Office, or the Ministry of Natural Resources and Forestry.

The information shown is derived from digital data available in the Provincial Mining Recorders' Office at the time of downloading from the Ministry of Northern Development and Mines web site.

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