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#### PROSPECTING REPORT

on

## GEOLOGICAL MAPPING AND LITHOGEOCHEMICAL SAMPLING

#### **ERIC LAKE PROPERTY**

#### THUNDER BAY MINING DIVISION

**BLACK RIVER AREA G-0580** 

#### DISTRICT OF THUNDER BAY, ONTARIO

NTS 42C / 13



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Appendix I	Sample locations / UTM NAD 83
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Map 1 - Geology - Travers - Sample location, scale 1:5000 Map 2 - Claim map

#### 1.0 Introduction

Between June 13, 2016 and September 11, 2016 general prospecting, geological mapping and rock sampling was conducted on the Eric Lake property. We prospected the Eric Lake property with emphasis on prospecting in order to locate significant mineralization and evaluate the property in regards to the kimberlite potential on the property.

#### 2.0 LOCATION AND ACCESS

The Eric Lake Claim blocks are located in the Hemlo area, Ontario approximately 330 km east of Thunder Bay.

The property consists of 3 claim block 36 units covering an area of approximately 576 ha located on the Ontario Ministry of Natural Resources claim sheet no. G-0580, in the Thunder Bay Mining Division, Ontario.

Access to the property is gained by Ontario highway 614 which crosses the property in the eastern part of the property and with 4wheelers on old trails and a rail way line that is now accessible with a 4wheelers on the western part of the property.

#### 2.1 PROPERTY DESCRIPTION

Eric Lake Property consists of 3 contiguous mining claim blocks (36 units, 576 hectare) recorded in good standing in Thunder Bay Mining Division within Black River Area Twp. (G- 0580)

#### Claims/units

4263458 (16), 4263460 (12), 4263467 (8)

Total 36 units

Assessment Work Breakdown

	Assessment Work Breakdown			
Type of Work	Name & Address	<b>Dates Worked</b>	$\frac{\text{Days} = 8 \text{ to } 10}{\text{hours}}$	Signature
Prospecting, Geological mapping, Hand Stripping, Rock sampling along Travers line on claim # 4263458	Rudolf Wahl Box 1022 Marathon, Ontario POT 2E0 CLN # 206079	June 13, 2016 To June 17, 2016	5	RW
Prospecting, Geological mapping, Hand Stripping, Rock sampling along Travers line on claim # 4263458	Frederick Lowndes 28 Steedman Drive Marathon, Ontario P0T 2E0 CLN #410033	June 13, 2016 To June 17, 2016	5	F.L.
Prospecting, Geological mapping, Hand Stripping, Rock sampling along Travers line on claim # 4263458	Rudolf Wahl Box 1022 Marathon, Ontario P0T 2E0 CLN # 206079	June 20, 2016 To June 24, 2016	5	M. W
Prospecting, Geological mapping, Hand Stripping, Rock sampling along Travers line on claim # 4263458	Frederick Lowndes 28 Steedman Drive Marathon, Ontario P0T 2E0 CLN #410033	June 20, 2016 To June 24, 2016	5	FL.
Prospecting, Geological mapping, Hand Stripping, Rock sampling along Travers line on claim # 4263467	Rudolf Wahl Box 1022 Marathon, Ontario POT 2E0 CLN # 206079	July 01, 2016 To July 07, 2016	7	RW
Prospecting, Geological mapping, Rock sampling along Travers line on claim # 4263467	Frederick Lowndes 28 Steedman Drive Marathon, Ontario POT 2E0 CLN #410033	July 01, 2016 To July 07, 2016	7	F.L.
Prospecting, Geological mapping, Rock sampling along Travers line on claim # 4263467	Rudolf Wahl Box 1022 Marathon, Ontario POT 2E0 CLN # 206079	July 22, 2016 To July 23, 2016	2	R.W
Prospecting, Geological mapping, Hand Stripping, Rock sampling along Travers line on claim #4263467	Frederick Lowndes 28 Steedman Drive Marathon, Ontario POT 2E0 CLN #410033	July 22, 2016 To July 23, 2016	2	F.L.
Prospecting, Geological mapping, Hand Stripping, Rock sampling along Travers line on claim #4263467	Rudolf Wahl Box 1022 Marathon, Ontario P0T 2E0 CLN # 206079	July 25, 2016 To July 29, 2016	5	RW
Prospecting, Geological mapping, Rock sampling along Travers line on claim #4263467	Frederick Lowndes 28 Steedman Drive Marathon, Ontario POT 2E0 CLN #410033	July 25, 2016 To July 29, 2016	5	F.L.
Prospecting, Geological mapping, Hand Stripping, Rock sampling along Travers line on claim #4263458	Rudolf Wahl Box 1022 Marathon, Ontario POT 2E0 CLN # 206079	Aug. 02, 2016 To Aug. 03, 2016	2	A.W
Prospecting, Geological mapping, Rock sampling along Travers line on claim # 4263458	Frederick Lowndes 28 Steedman Drive Marathon, Ontario POT 2E0 CLN #410033	Aug. 02, 2016 To Aug. 03, 2016	2	F.L.

#### Assessment Work Breakdown

A total of 52 days in between June 13, 2016 and August 03, 2016 where used for prospecting, hand stripping, geological mapping and rock sampling on the Eric Lake Property.

Dated Say 27 2016, Marathon, Ont.

Signed Madely Webl.)

(Frederick Lowndes)

#### **Assessment Work Breakdown days:**

#### June 13, 2016 to June 17, 2016 prospecting on claim #4263458

We used our 4wheelers into the property on an old rail way road where the rails were removed on the eastern site of Hwy. 614. We prospected and hand stripped and geological mapped along traverse line. Most of the area is covered by glacial till with some areas with exposed outcrop. Glacial till is very fine grained with no indication of kimberlite indicator minerals.

#### **June 20, 2016 to June 24, 2016** prospecting on claim #4263458

We used our 4wheelers into the property on an old rail way road where the rails were removed on the western site of Hwy. 614 and we used some of the old 4wheeler trails.

We prospected and hand stripped and geological mapped along traverse line. Most of the area is covered by sand and very fine grained glacial till. We prospected along the Black River to locate kimberlite indicator minerals or kimberlite fragments to the south of the magnetic high bull's eye that is located within the western center part of claim #4263467. Most of the area is covered by glacial till and swampy section within the Black River area. Prospecting is very time consuming within that claim block do to the way the black river crosses the property

#### July 01, 2016 to July 07, 2016 prospecting on claim #4263467

We used our 4wheelers into the property on an old rail way road where the rails were removed on the western site of Hwy. 614 and we used some of the old 4wheeler trails.

We prospected and hand stripped and geological mapped along traverse line. Most of the area is covered by sand and glacial till in the center section of the claim block. We only found rock outcrop within the western – northwestern section of the claim block. Some are sedimentary to granite with small gabbroic dykes.

#### July 22, 2016 to July 23, 2016 prospecting on claim #4263467

We used our 4wheelers into the property on an old rail way road where the rails were removed on the western site of Hwy. 614 and we used some of the old 4wheeler trails. We prospected and hand stripped and geological mapped along traverse lines. Not much of bedrock to be found within the center of the claim block, the center of the claim block is mostly covered with fine glacial till.

#### July 25, 2016 to July 29, 2016 prospecting on claim #4263467

We used our 4wheelers into the property on an old rail way road where the rails were removed on the western site of Hwy. 614 and we used some of the old 4wheeler trails. We prospected and hand stripped and geological mapped along traverse line. Most of the area is covered by glacial till and swampy section along a creek that crosses the claim block. Prospecting is very time consuming within that claim block do to the high amount of glacial till on the claim block.

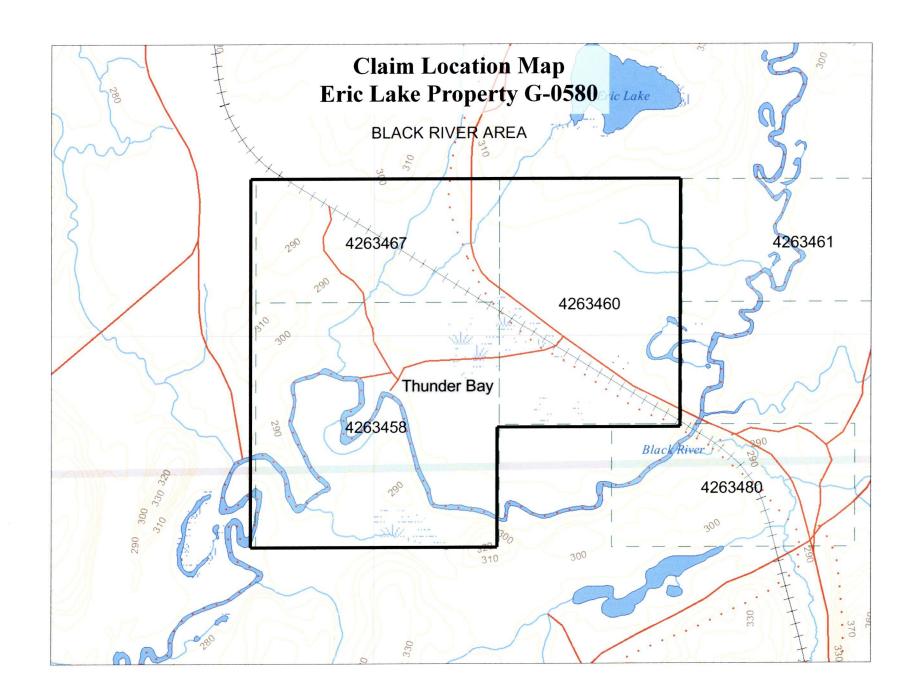
#### August 02, 2016 to August 03, 2016 prospecting on claim #4263458

We used our 4wheelers into the property on an old rail way road where the rails were removed on the western site of Hwy. 614 and we used some of the old 4wheeler trails.

We prospected and hand stripped and geological mapped along traverse line. Most of the area is covered by glacial till and swampy section within the creek area that crossed the claim block.

## Eric Lake Property Key Location Map





#### **General Property Geology**

3.0

The project area is situated within the Superior Province, just south of the border of the Wawa Subprovince and the Quetico Subprovince. The metasedimentary-migmatitic rocks of the Quectico Subprovince structurally overly the granitic greenstone units of the Wawa

Subprovince at this tectonic division. However, it is the formations of the Wawa Subprovince that dominate the property area, specifically the Neo- to MesoArchean (2.5 to 3.4 Ga) Schreiber-Hemlo greenstone belt, Neo-to MesoArchean felsic igneous suites and the

Mesoproterozoic (0.9 to 1.6 Ga) Port Coldwell intrusive complex (Santaguida 2001).

The Scheiber-Hemlo greenstone belt is represented by its 2 eastern supracrustal assemblages, the Heron Bay assemblage and the Hemlo-Black River assemblage. The Heron Bay assemblage lies to the south of the Hemlo-Black River assemblage, the two being divided by the Lake Superior-Hemlo Fault Zone. It is composed of tholeitic mafic volcanic rocks as well as calk-alkaline, felsic to intermediate pyroclastic and equivalent volcaniclastic rocks (Williams et al 2001).

Two major lithologies, tholeitic/calc-alkaline volcanic rocks and sedimentary rocks encompass the Hemlo-Black River assemblage (Williams et al. 1991). Mafic to intermediate metavolcanics dominate the western regions whereas felsic metavolcanics and sediments occupy the eastern portions closer to Hemlo (Muir 1982b). Comprising the mafic metavolcanics are massive to foliated flows; pillowed flows; volcaniclastic and epiclastic rocks; amphibolite, mafic schist and gneiss (William et al. 2001; Santaguida 2001). The felsic metavolcanics consist of pyroclastic and epiclastic rocks; massive flows; tuff and lapilli tuff; and hypabyssal intrusions. Within the mafic to intermediate metavolcanics, suites of mafic and ultramafic intrusive rocks have been identified (Santaguida 2001; Pye 1957). The mafic rocks are composed of gabbros, diorite, anorthositic gabbro and anorthosite that are serpentinized in areas. The ultramafics are less observed, occurring as peridotite, pyroxenite, hornblendite and dunite, with local alteration of talc, serpentine and carbonate.

Intruding the supracrustal units of the greenstone belt are felsic igneous rocks. These granotoid rocks, vary in composition from foliated to gneissic tonalites to massive granite-granodiorites (Williams et a!1991. The primary example of these complexes in the property area is the Black-Pic batholith, characterized by foliated to gneissic, tonalite to granodiorite. Additionally, the supracrustal rocks were subsequently intruded by relatively undeformed, discordant granodiorite bodies, such as the crescent shaped Gowan pluton on the southern edge of the Black-Pic batholith and the Fourbay Lake Pluton within the Black-Pic batholith (William et al 1991; Santaguida 2001, Beakhouse 2001).

Mesoproterozoic mafic intrusives of Keweenawan age (Santaguida 2001, Pye 1957) sharply cut the older metavolcanic and plutonic units discussed above. Consisting of gabbro, diabase, and granophyre, these dykes generally trend north to northeast, however a northwest trending incidence has been reported ((Pye 1957).

The youngest sequence of rocks found in western side of project area is that of the Port Coldwell Intrusive Complex (1108 to 1109 Ma). This triple ring intrusion is composed of alkalic and mafic rocks typified by quartz syenite granite; nepheline syenite; amphibole syenite; gabbro; diabase; as well as minor mafic volcanic and hypabyssal rocks (Sage 1991; Santaguida 2001).

#### 4.0 Prospecting / Geological Mapping

Most of the Eric Lake property was geologically mapped and prospected / sampled with emphasis on prospecting in order to locate kimberlite / kimberlite indicator minerals and significant mineralization on the property.

#### 5.0 Work conducted on the Eric Lake property.

The Eric Lake Property consists of 3 mining claim blocks (36 units, 576 hectare) recorded in good standing in Thunder Bay Mining Division within Black River Area Twp. (G- 0580)

#### Work conducted on claim:

#### Claims/units

4263458 (16), 4263467 (8)

Total 24 units

### 5.1 Work completed

- a. Geological mapping on traverse lines.
- b. Rock sampling over mineralized out crops along traverse lines.
- c. Checked glacial till in regards to kimberlite indicator minerals
- d. Rock sample where collected by UTM: ZONE 16 NAD 83 locations.
- e. All sample where taking with a Geo tool.
- f. A total of 25 rock sample where obtained and 23 rock samples send out for Au / PGE assay.
- g. Topographic features (trail, lakes, creeks) were also used to control mapping and prospecting.

#### 6.0 Results and Conclusion

25 Rock samples were collected from the Eric Lake property and 23 rock samples send out for assaying. No significant result where obtained from the rock samples. Most of the Eric Lake property was geologically mapped and prospected / sampled with emphasis on prospecting in order to locate kimberlite / kimberlite indicator minerals and significant mineralization on the property. The glacial till is to fine grained to collect any till samples for kimberlite indicator minerals.

Magnetic Bulls Eye on claim 4263458 & claim 4263467: This target was prospected during the prospecting and sampling phase. Minimal outcrop was noted with a slight elevated ridge being detected on the north edge of the magnetic high anomaly. This outcrop was a moderately foliated granite/gneiss outcrop. The remainder of the target area is covered with a sandy till that slopes off to the southeast into the main drainage. No explanation for the strong magnetic high anomaly was forth coming. This target is a circular magnetic high of 1200 nT, 300 meters in diameter. A stand of deciduous trees marks the core of the magnetic high anomaly. The area is extensively covered by till with limited outcrop exposure.

We option this property on August 23, 2016 to Churchill Diamond Corporation Because of the favorable stratigraphy on the property in regards to the Kimberlite pipe potential Churchill Diamond Corporation will start follow up on the Magnetic Bulls Eye target mid/end September 2016 with subsurface testing of the target.

#### 6.1 **RECOMMENDATIONS**

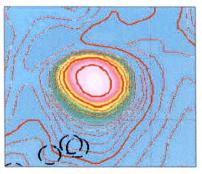
Because of the favorable stratigraphy on the property in regards to the Kimberlite potential Churchill Diamond Corporation option this property on August 23, 2016 from us and going to investigate the magnetic bulls eye mid September 2016 with ground follow up and drilling. We are very pleased that the company will spent the time and dollars to explore the property for the diamond and the gold / base metal potential.

Marathon, Ontario September 11, 2016 Respectfully submitted

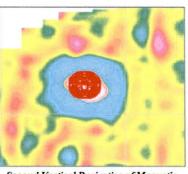
Mudof Wald

Rudolf Wahl Prospector

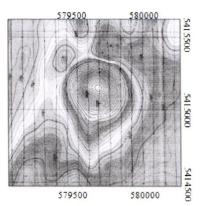
## Eric Lake Property Potential Kimberlite Pipe Target 250 m to 300 m in width.



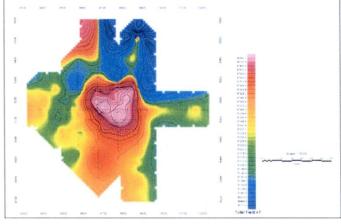
Total Magnetic Field Target



Second Vertical Derivative of Magnetic Field and Keating Coefficients

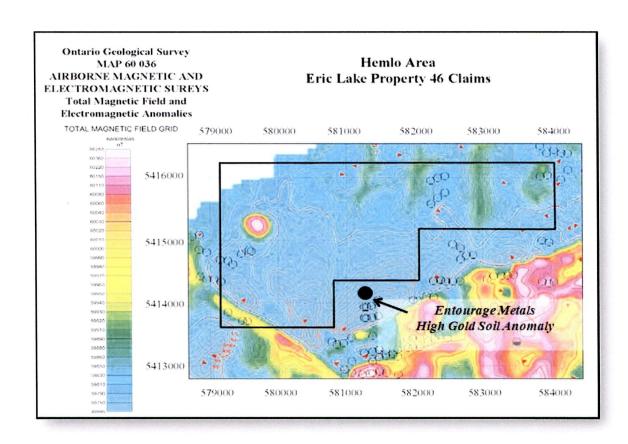


Total Magnetic Intensity Target D-001 NTS 42C/13

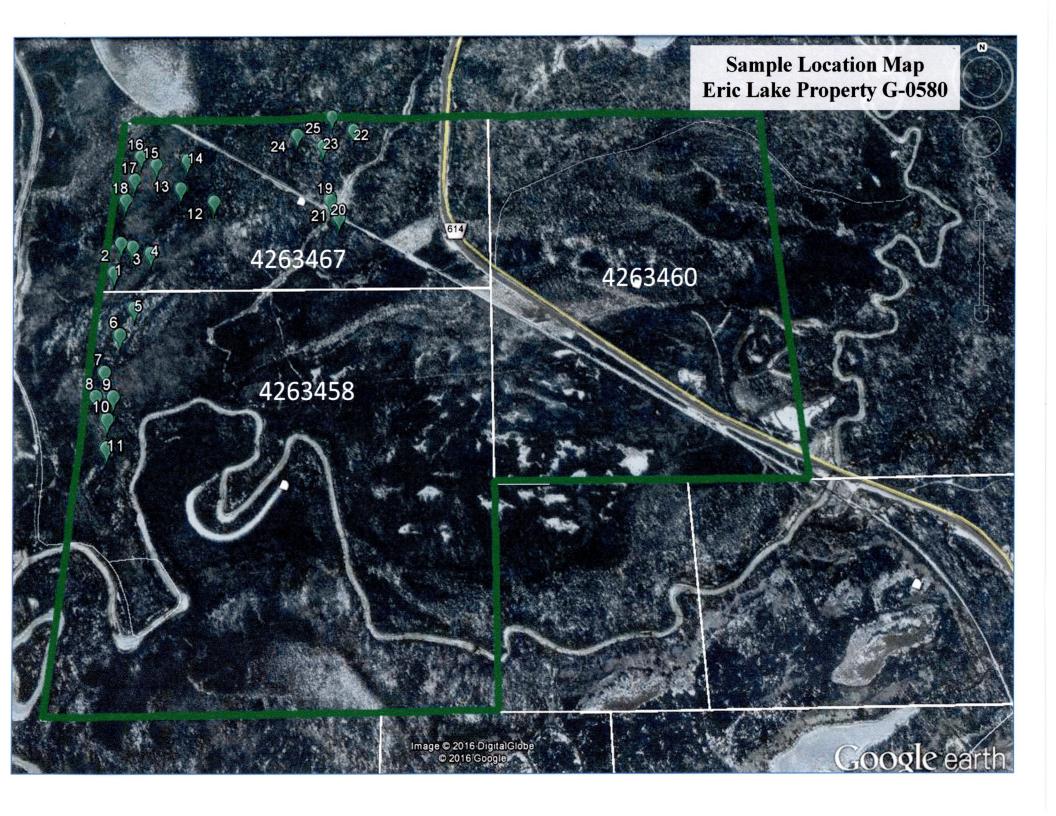


Ground Magnetic Survey over Target D-001

It's encouraging to see that the magnetic anomalies are not associated with very strong EM anomalies as I think that may be unlikely in this region. Both the nominal terrain clearance and line spacing look good as well. The causative body used for the Keating filter was 200m which is a pretty good first order guess. Based on the strength of the mag it should be very close to out crop ...... This is a compelling target.



## **Appendix I**



## Erik Lake Property Sample Location, UTM 16 NAD 83

Sample Location #	Sample #	Easting	Northing
1	999151	579285	5415227
2	999152	579293	5415362
3	999153	579344	5415344
4	999154	579423	5415312
5	999155	579387	5415066
6	999156	579341	5414957
7	999157	579296	5414807
8	999158	579273	5414710
9	999159	579339	5414709
10	999160	579327	5414620
11	999161	579340	5414507
12	999162	579662	5415549
13	999163	579514	5415614
14	999164	579529	5415748
15	999165	579398	5415730
16	999166	579328	5415773
17	999167	579314	5415660
18	999168	579288	5415564
19	999169	580149	5415555
20	999170	580149	5415565
21	999171	580189	5415471
22	999172	580236	5415886
23	999173	580107	5415812
24	999174	579993	5415867
25	999175	580142	5415948

# **Appendix II**

### **DESCRIPTION OF ROCK SAMPLES**

( See Geological map for sample location )

Sample Location #	Sample #	Rock Sample Description	
1	999151	Sedimentary ½ % sulphide, light carbon	
2	999152	Sedimentary ½ % sulphide, small quartz veining	
3	999153	Small gabbro dyke, 1 % sulphide	
4	999154	Small gabbro dyke, 1 ½ % sulphide	
5	999155	Small gabbro dyke, 1 ½ % sulphide	
6	999156	granite / gneiss, light carbon staining 1½ % sulphide	
7	999157	Sedimentary 1% Sulphide, small quartz veining	
8	999158	Sedimentary 1 ½ % sulphide, carbon staining	
9	999159	Sedimentary 1 ½ % sulphide, carbon staining	
10	999160	biotite granite with small quartz veining, light carbon staining 1 % sulphide	
11	999161	biotite granite with small quartz veining, light carbon staining 1 % sulphide	
12	999162	Small gabbro dyke, 1 ½ % sulphide	
13	999163	mafic volcanic with quartz veining, carbon staining 1 ½ % sulphide	
14	999164	mafic volcanic, carbon staining 1 % sulphide	
15	999165	mafic volcanic with quartz veining, carbon staining 2 ½ % sulphide	
16	999166	Sedimentary 1 ½ % sulphide, carbon staining	
17	999167	biotite granite / gneiss with quartz veining, 1 % sulphide	
18	999168	biotite granite / gneiss with quartz veining, ½ % sulphide	
19	999169	Metamorphic graphite boulder	
20	999170	Metamorphic graphite schist	
21	999171	Sedimentary ½ % sulphide, light carbon	
22	999172	Sedimentary ½ % sulphide, light carbon	
23	999173	Sedimentary ½ % sulphide, small quartz veining	
24	999174	Sedimentary ½ % sulphide, small quartz veining	
25	999175	Sedimentary ½ % sulphide, small quartz veining	

## **Appendix III**



1046 Gorham Street Tel: (807) 626-1630 Thunder Bay, ON Canada P7B 5X5

Fax: (807) 622-7571

www.accurassay.com assay@accurassay.com

Thursday, September 8, 2016

Wahl's Prospecting Box 1022

Marathon, ON, CAN

P0T2E0

Ph#: (807) 229-1165 Fax#: (807) 229-3155

Email: rwahl@renegadeisp.com

#### **Final Certificate**

Date Received: 08/22/2016 Date Completed: 09/08/2016 Job #: 201641739

> Reference: Sample #: 26

Acc#	Client ID	Au	Pt	Pd
		g/t (ppm)	g/t (ppm)	g/t (ppm)
185406	999151	0.007		
185407	999152	<0.005		
185408	999153	<0.005	0.075	<0.01
185409	999154	<0.005	0.082	<0.01
185410	999155	<0.005	0.113	<0.01
185411	999156	<0.005		
185412	999157	<0.005		
185413	999158	<0.005		
185414	999159	<0.005		
185415	999160	<0.005		
185416	999160 Dup	<0.005		
185417	999161	<0.005		
185418	999162	<0.005	0.061	<0.01
185419	999163	<0.005	0.087	<0.01
185420	999164	<0.005		
185421	999165	<0.005		
185422	999166	<0.005		
185423	999167	<0.005		
185424	999168	<0.005		
185428	999171	<0.005		
185429	999172	<0.005		
185430	999173	<0.005		
185431	999174	<0.005		
185432	999175	<0.005		
185433	999176	0.008		

APPLIED SCOPES: ALP1, ALFA1, ALPG1, ALAR1

Validated By:

Jason Moøre, VP Operations, Assayer

Certified By:

Jason Moøre, VP Operations, Assayer

Derek Demianiuk, VP Quality

The results included on this report relate only to the items tested.

The Certificate of Analysis should not be reproduced except in full, without the written approval of the laboratory.



1046 Gorham Street Thunder Bay, ON Canada P78 5X5

Tel: (807) 626-1630 Fax: (807) 622-7571 www.accurassay.com assay@accurassay.com

Thursday, September 8, 2016

**Final Certificate** 

Wahl's Prospecting Box 1022 Marathon, ON, CAN

P0T2E0 Ph#: (807) 229-1165

Fax#: (807) 229-3155 Email: rwahl@renegadeisp.com Date Received: 08/22/2016 Date Completed: 09/08/2016 Job #: 201641739

> Reference: Sample #: 26

Acc# Client ID

Au g/t (ppm)

Pt g/t (ppm) Pd g/t (ppm)

185434

999177

0.013

185435 999178

0.034

APPLIED SCOPES: ALP1, ALFA1, ALPG1, ALAR1

Validated By:

Certified By:

Authorized By:

Jason Moøre, VP Operations, Assayer

Jason Moøre, VP Operations, Assayer

Derek Demianiuk, VP Quality

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1046 Gorham Street Tel: (807) 626-1630 Thunder Bay, ON Canada P78 5X5

Fax: (807) 622-7571

www.accurassay.com assay@accurassay.com

Thursday, September 8, 2016

**Final Certificate** 

Wahl's Prospecting Box 1022 Marathon, ON, CAN P0T2E0

Ph#: (807) 229-1165 Fax#: (807) 229-3155

Email: rwahl@renegadeisp.com

Date Received: 08/22/2016 Date Completed: 09/08/2016 Job #: 201641739

> Reference: Sample #: 26

#### **Control Standards**

QC Type	Element	QC Performance (ppm)	Mean (ppm)	Std Dev (ppm
GS42	Au	0.571	0.650	0.040
AP10	Au	0.388	0.318	0.042
AP10	Pt	0.377	0.346	0.018
AP10	Pd	6.272	6.070	0.310

APPLIED SCOPES: ALP1, ALFA1, ALPG1, ALAR1

Validated By:

Certified By:

Authorized By:

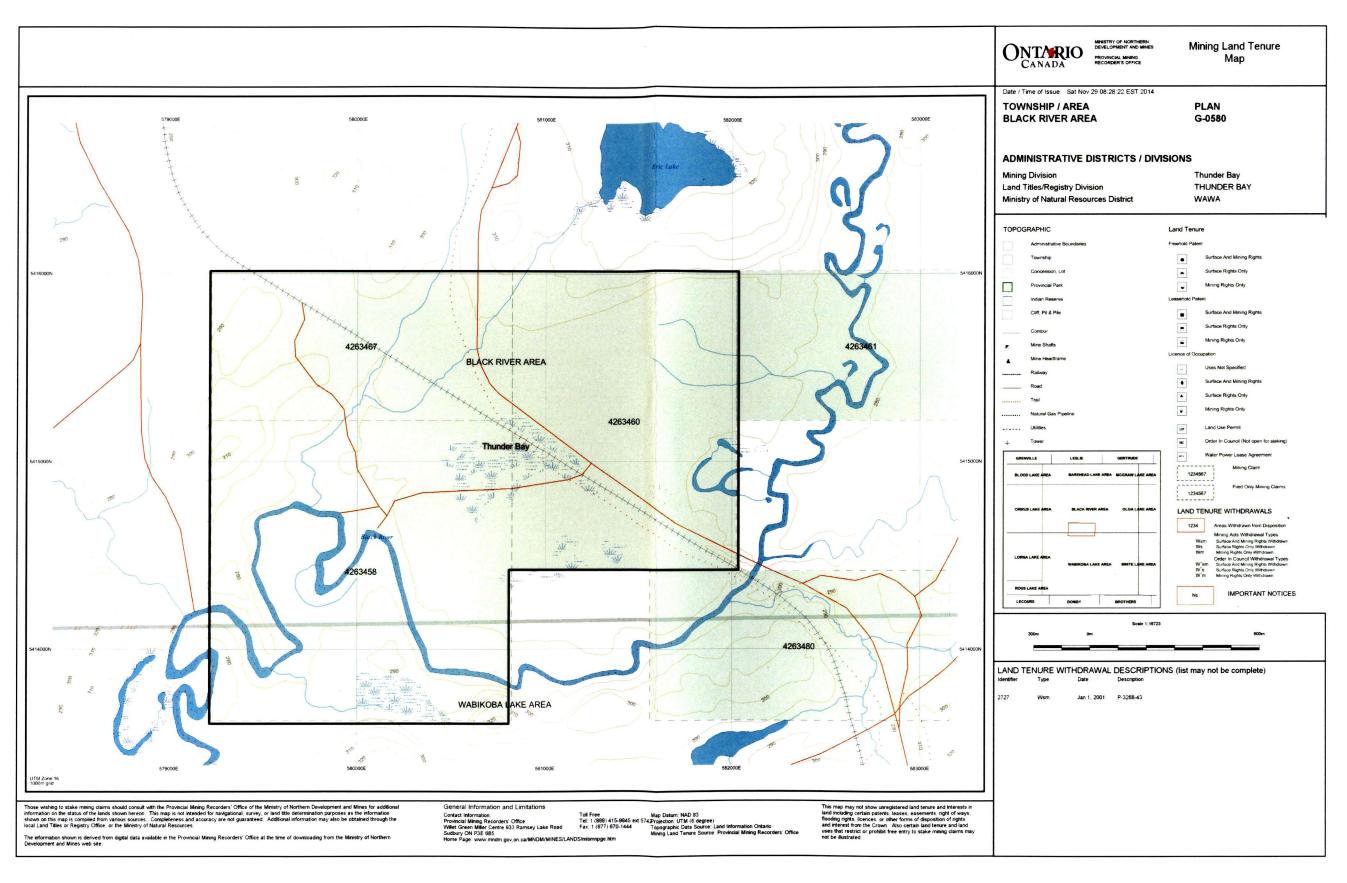
Jason Moøre, VP Operations, Assayer

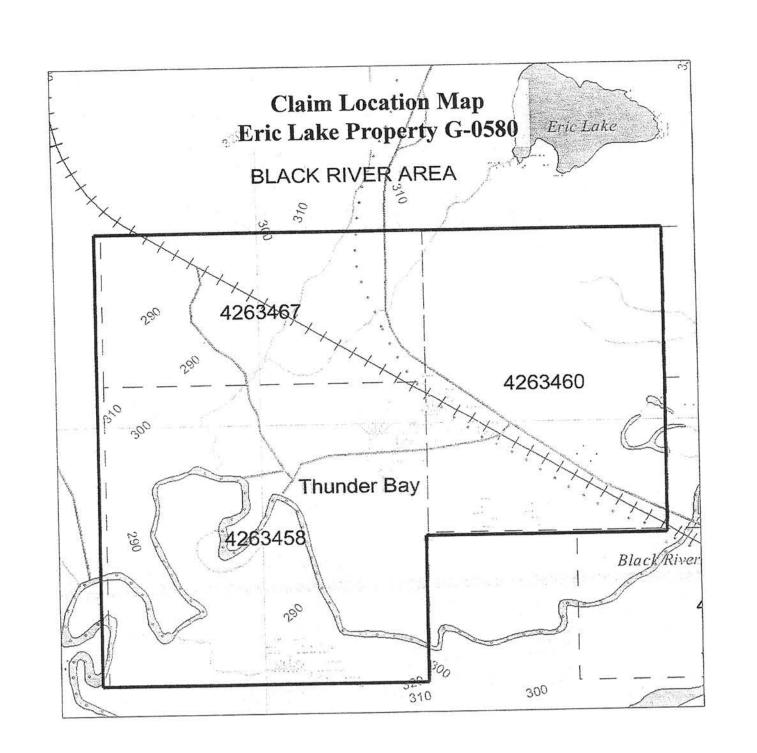
Jason Moøre, VP Operations, Assayer

Derek Demianiuk, VP Quality

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1	999151	579285	5415227
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14	999164	579529	5415748
15	999165	579398	5415730
16	999166	579328	5415773
17	999167	579314	5415660
18	999168	579288	5415564
19	999169	580149	5415555
20	999170	580149	5415565
21	999171	580189	5415471
22	999172	580236	5415886
23	999173	580107	5415812
24	999174	579993	5415867
25	999175	580142	5415948

## **LEGEND**

## **GRANITIC GNEISSES**

6 Ganite

4a Greywacke

METAVOLCANIC

4b Slate
4c Mica phyllite and schist from sedimentary rock

4d Migmatite and injection gneiss

1a Medium to fine grained, massive and gneissic amphibolite2a Meium to coarse grained, massive and gneissic amphibolite

MAFIC TO INTERMEDIATE

6a Biotite granite gneiss.
6b Hornblende granite gneiss.
6c Biotie-hornblende -felspar gneiss.

### SEDIMENTARY ROCKS

**SYMBOLS** 

Downslope .

X Bedrock

4 Wheeler Trail

- - - . Traverse Line

Claim Post

1 to 25 Rock sample location and Assay number

\*\* Muskeg or swamp

\_\_\_\_ Glacial Till

**ABBREVIATIONS** 

S - Sulphides Carb - Carbonate

