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A Report on Prospecting, Mechanical Stripping
and Diamond Drilling on the
Jackfish Lake Property
Sawmill Lake Claim # 4247132

Syine Township
Thunder Bay Mining Division
District of Thunder Bay, Ontario

NTS 42D15

NAD83 Zone 16 UTM

504,942mE 5,408,277mN

Latitude 48° 49' 43.8"N Longitude 86° 57' 41.4"W

By Wayne Richards

P.O. Box 1084

Terrace Bay, ON

POT2WO

Cl. #303657

April 28, 2017

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Introduction

Between the dates of June 6, 2015 and August 4, 2016 physical exploration work including prospecting, mechanical stripping and diamond drilling was undertaken on the Jackfish property Sawmill Lake mining claim # 4247132. The purpose of the work was to search for further occurrences of quartz veins carrying gold, silver, copper, lead and zinc within the Terrace Bay Batholith granodiorite rocks of the Schreiber-Hemlo greenstone belt. The Terrace Bay Batholith is host to numerous small historic gold and base metal occurrences and there is potential to find others, perhaps of economic significance in current times.

Property Location, Description and Access

The Jackfish Lake property Sawmill Lake Claim # 4247132 is located within the Syine Township, on the north shore of Lake Superior in northwestern Ontario, approximately 250 km east of Thunder Bay (Figure 1). The claim is centered on 504,942mE 5,408,277mN (NAD 83 Zone 16) or at Latitude 48° 49' 43.8"N Longitude 86° 57' 41.4"W.

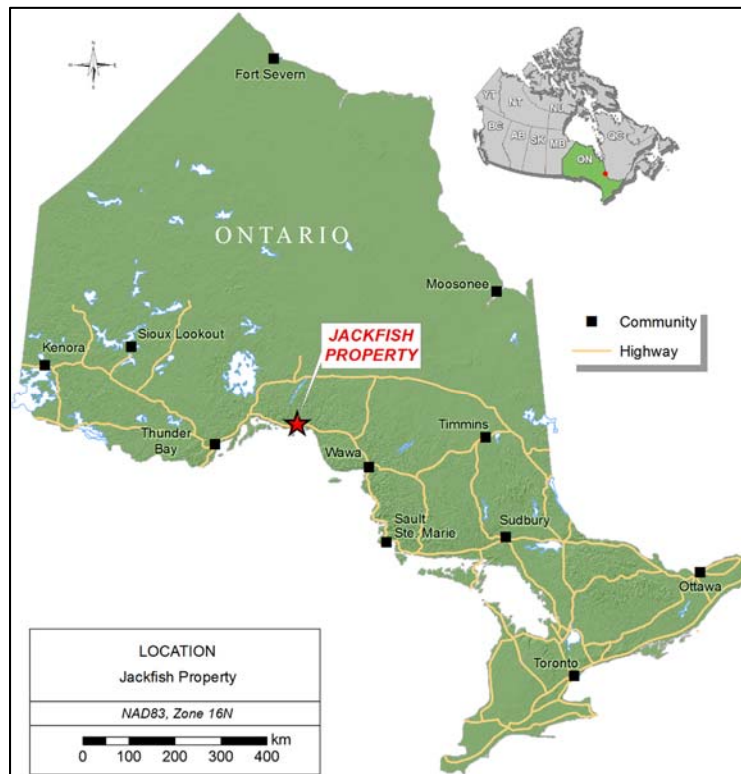


Figure 1: Property Location Map.

The claim is accessible travelling 19 km east of Terrace Bay or 63 km west from Marathon via Trans-Canada Highway 17. The property is readily accessible off the Highway 17 by All-terrain vehicle (ATV) along bush trails.

The property for the purpose of this report consists of one unpatented mining claim # 4247132 of 16 units in the Thunder Bay Mining Division, covering 246 hectares excluding 3 privately held fee simple surface and subsurface rights contained within the claim (Figure 2).

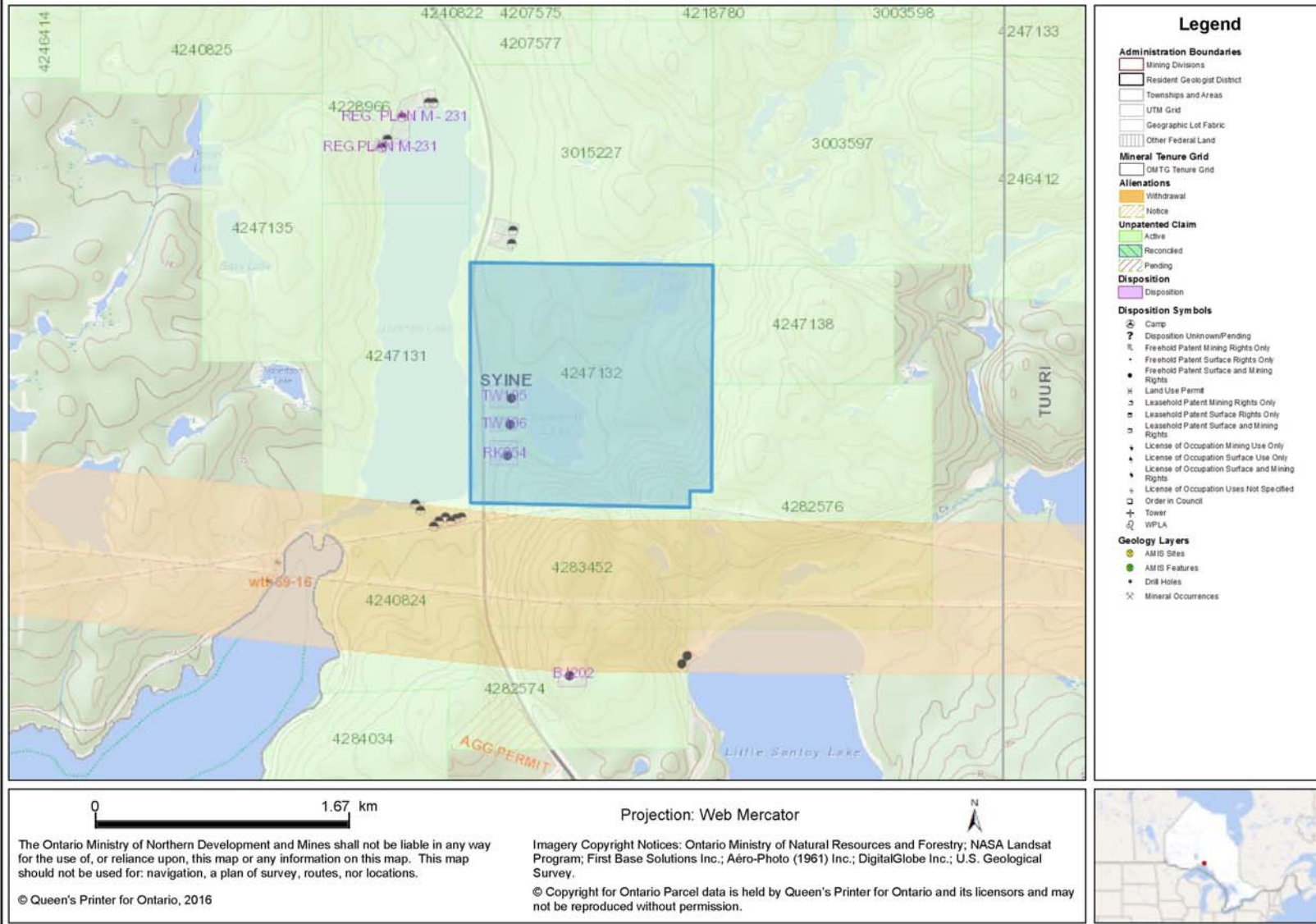


Figure 2: Sawmill Lake Claim # 4247132 Map.

Exploration Work

Physical exploration work including prospecting, mechanical stripping using a backhoe and outcrop washing using a high pressure water pump and hoses was carried out by Wayne Richards (Client # 303657) on mining claim # 4247132 between the dates of June 6, 2015 and August 4, 2016. Details of the actual dates and types of work performed are summarized in Table 1.

A single diamond drill hole collar was located to attempt to test for continuity of gold bearing quartz veins beneath the North Zone (Figure 3). Drilling was performed by Richard's Exploration using a custom made top drive hydraulic driven core drill using BTW sized tooling. Summary information about the hole is provided in Table 2. The drill core is safely stored at Jackfish Lake Cottages.

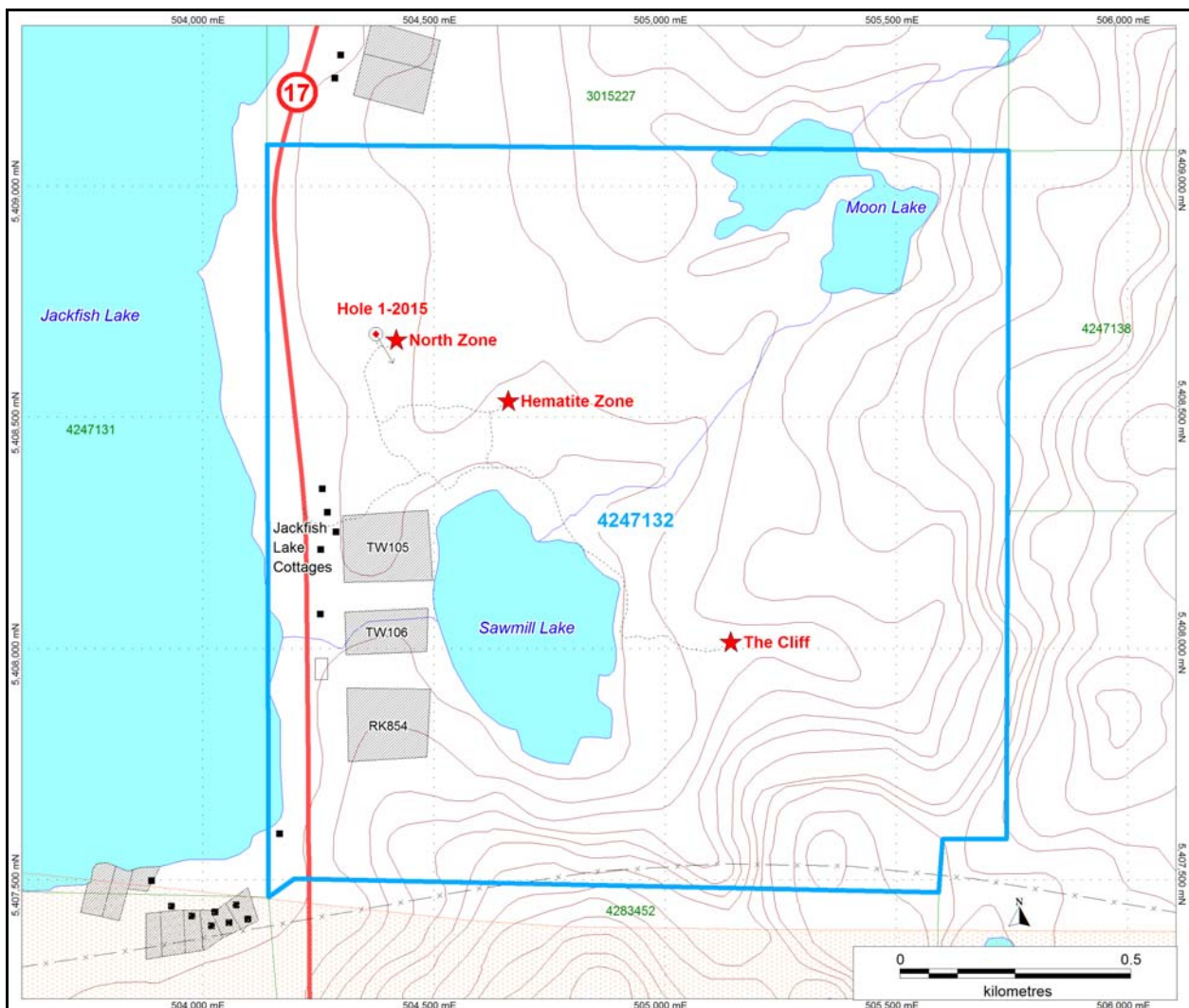


Figure 3: Key Locations Map.

Table 1: Daily Log of Exploration Work.

Dates Worked	Days Worked	Name and Address	Work Type	Equipment used
Jun 6, 2015 to Jun 7, 2015	2 days		Cleared trail of debris and windfall for property visits	Chainsaw
Jun 16, 2015 to Jun 17, 2015	2 days		Property visit With Darren Lindsay of Lindsay Geological Inc.	ATV
Jul 9, 2015 to Jul 10, 2015	2 days		Prospecting area from Sawmill Lake and east to Cliff showing for new alterations and quartz veining	ATV
Jul 15, 2015	1 day		Prospecting area from Sawmill Lake and east to Cliff showing for new alterations and quartz veining	ATV
Aug 3, 2015 to Aug 4, 2015	2 days		Prospected area between North Zone and Hematite Zone	ATV
Aug 20, 2015	1 day		Prospected area between North Zone and Hematite Zone	ATV
Sep 23, 2015 to Sep 24, 2015	2 days		Backhoe stripping area east of North Zone and prospecting newly uncovered rocks there	16 hours use of backhoe, ATV
Sep 30, 2015 to Oct 1, 2015	2 days		Make new trail east of existing trail due to old trail impassable	8 hours use of backhoe, ATV
Oct 3, 2015 to Oct 4, 2015	2 days		Further work building and fixing trail	16 hours use of backhoe, ATV
Oct 6, 2015	1 day	Wayne Richards P.O. Box 1084	Further work building and fixing trail	8 hours use of backhoe, ATV
Oct 16, 2015 to Oct 21, 2015	6 days	Terrace Bay, ON POT2WO Cln.#303657	Prospecting further east of North Zone, Stripping with backhoe, washed new rock outcrops	16 hours use of backhoe, ATV, 2 days use of water pump and hoses
Oct 22, 2015 to Oct 24, 2015	3 days		Drill site access trail repair and drill pad clearing and building	24 hours use of backhoe, ATV
Oct 25, 2015 to Oct 29, 2015	5 days		Mobilize drill rig to site and setup	8 hours use of backhoe, 4 hours use of skidder, Hydra-core diamond drill, ATV
Oct 30, 2015 to Nov 5, 2015	6 Days		Diamond drilling Hole 1-2015, BTW to 103m	Hydra-core diamond drill, ATV
Nov 4, 2015	1 day		Property visit by John Florek, Rudy Wahl and Mark Puumla (MNDM) to view the drilling and drill core	ATV
Nov 6, 2015 to Nov 8, 2015	3 days		Pack up and demobilize drill	4 hours use of skidder, Hydra-core diamond drill, ATV
Jun 6, 2016	1 day		Property visit with Troy Gill from Sanatana Resources	ATV
Jun 27, 2016	1 day		Property visit with Dorothy Campbell & Seamus Magnus (MNDM)	ATV
Jul 29, 2016 to Jul 31, 2016	3 days		Clean trail and edges of North Zone	16 hours use of backhoe, ATV
Aug 2, 2016 to Aug 4, 2016	3 days		Clear off and washed down North Zone to prepare for student mapping	ATV, water pump and hoses

Signature: _____

Table 2: Summary Diamond Drill hole Information.

Name	Size	Datum	Projection	East	North	Dip	Azimuth	Depth
HOLE 1-2015	BTW	NAD83	UTM Zone 16	504375	5408680	-45 °	150°	103 m

Conclusions and Recommendations

More gold veins were discovered east of North Zone. It is recommended that the whole area of North Zone and Hematite Zone is mapped and systematically channel sampled and assayed for gold and other metals in 2017.

Quartz veins were observed in the core from the diamond drill hole, although the relationship between these veins and the veins that outcrop at the North Zone is not understood at this stage. The drill core will be geologically logged, cut and systematically sampled and assayed for gold and other metals in 2017.

EXPLORATION HISTORY

The Schreiber–Terrace Bay area has been prospected and explored for gold and base metals since as early as 1875 (Walker 1967a). The area was subjected to intense mineral exploration activities in the early- to mid-1980s during periods of major discoveries, such as the Hemlo gold mines and Winston Lake Cu-Zn-Ag mine. More recently, GTA Resources and Mining Inc. and joint venture partner Balmoral Resources Inc. are exploring the gold potential associated with quartz-carbonate and base metal sulphide veins hosted by felsic intrusive bodies on their Northshore property, 4 km south of Schreiber and 25 km southwest of the Richards and Hamel Jackfish property.

A summary of historic exploration work carried out by companies, prospectors and various government agencies in the immediate vicinity of the Jackfish property is provided below in Table 18.

The Jackfish property was visited by Resident Geologist Program (RGP) geologists on 2 occasions during the 2012 and 2013 field seasons (D. Campbell on September 12, 2012 and M. Puumala on August 29, 2013). During each visit, W. Richards accompanied and assisted RGP staff in visiting 2 new gold showings located on claim 4247132. These showings are referred to below as the “Cliff Zone” and the “North Zone.” Locations for 14 grab samples collected by RGP staff are shown in Figure 13. Assay results, UTM co-ordinates and descriptions are provided in the following text and Table 19.

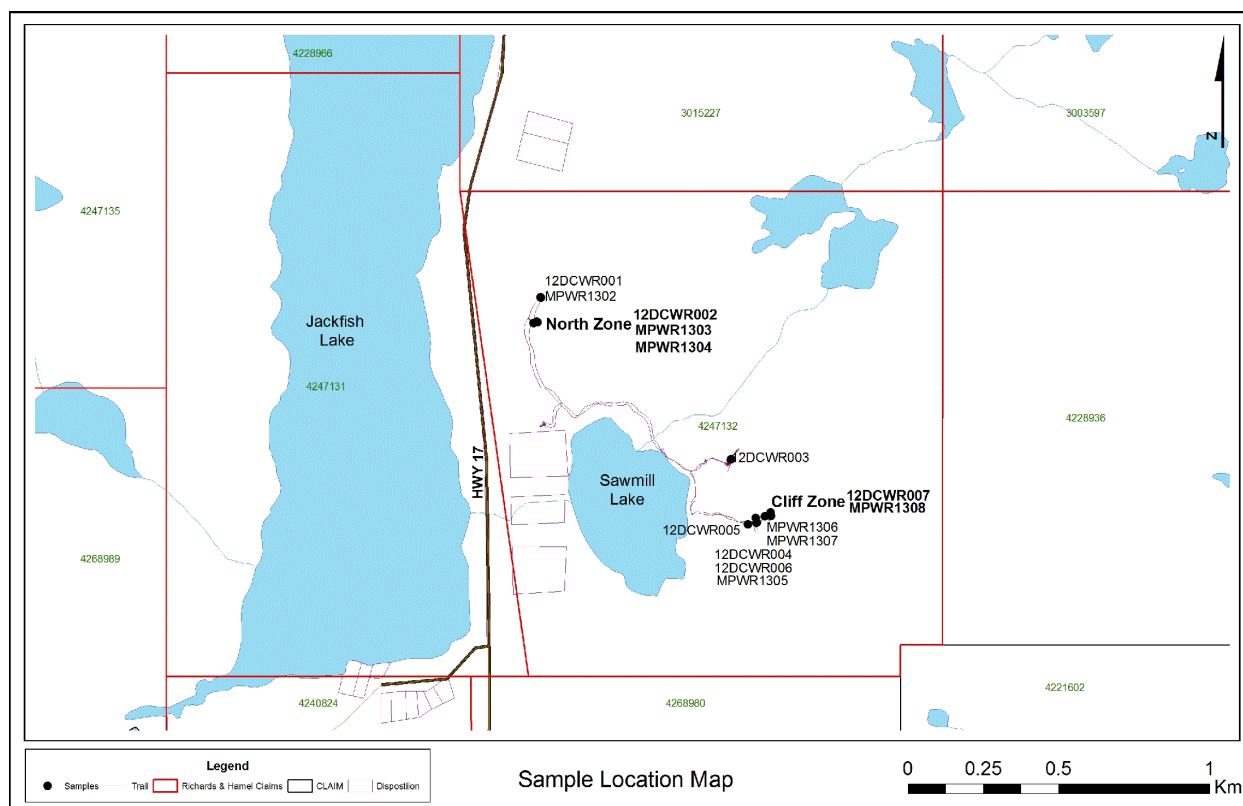


Table 18. A summary of the exploration history for the Jackfish Lake area.

Year	Author	Organization/Company/Individual, Assessment Work	Reference
1967	J.W.R. Walker	Ontario Department of Mines Geology of the Jackfish-Middleton Area, District of Thunder Bay	Report 50 Maps 2107, 2112
1984	S. Marmont	Ontario Geological Survey The Terrace Bay batholith and associated mineralization	Open File Report
1984	J.H. Montgomery	Highmark Resources Ltd. & McMillan Energy Ltd. Geology, Geochemistry, Geophysics: Magnetometer, VLF-EM & IP	Assessment Report AFRO# 2.8192 AFRI# 42D15SW0113

1986	J.R. Hamel	J.R Hamel Assay and Geochemical Results for Diamond Drilling Program, Trenching and Stripping	Assessment Report AFRO# 63.4750 AFRI# 42D15SW0103
1988	M.W. Carter Mapped the area west of the property	Ontario Geological Survey Geology of Schreiber-Terrace Bay area, District of Thunder Bay	Open File Report 5692 5 maps
1994	J.R. Hamel	J.R. Hamel 5 Diamond Drill Holes totaling 148 feet (0.9 km and 1.2 km northeast of Santoy	Assessment Report AFRO# AFRI# 42D15SW0001
1996	B.R. Schnieders, M.C. Smyk, A.A. Speed, and D.B. McKay	Ontario Geological Survey Mineral occurrences in the Nipigon–Marathon Area	Open File Report 5951 Volumes 1 & 2
1997	R.D. Dyer	Ontario Geological Survey Schreiber–Terrace Bay High Density Regional Lake Sediment and Water Survey, Northwestern Ontario	Open File Report 5964, MRD33
2000	Ontario Geological Survey	Schreiber–Hemlo Area Lake Sediment Survey: Gold and PGE Data – Operation Treasure Hunt	Open File Report 6036, MRD65
2000	T.F. Morris, R.P. Sage, D.C. Crabtree, S. Pitre	Ontario Geological Survey Kimberlite, Base Metal, Gold and Carbonatite Exploration Targets Derived from Overburden Heavy Mineral Data, Killala Lake Area, Northwestern Ontario	Open File Report 6013
Year	Author	Organization/Company/Individual, Assessment Work	Reference
2001	G.P. Beakhouse	Ontario Geological Survey Nature, Timing and Significance of Intermediate to Felsic Intrusive Rocks Associated with the Hemlo Greenstone Belt and Implication for the Regional Geological Setting of the Hemlo Gold Deposit	Open File Report 6020
2003	Ontario Geological Survey	Ontario Geological Survey Airborne Magnetic and Electromagnetic Surveys, Schreiber Area (part of the Operation Treasure Hunt geoscience initiative)	GDS1104- Revised
2004	J.M. Carson, P.B. Holman, K.L. Ford, J.A. Grant, R.B.K. Shives	Geological Survey of Canada Airborne Gamma Ray Spectrometry Compilation, Ternary Radioelement Map, Ontario	Open File 4556 Scale 1:2 000 000
2004	B. Fowler	B. Fowler Prospecting, sampling, assays, line cutting, magnetometer survey	Assessment Report AFRO# 2.8897, AFRI# 42D15SW2024
2010	R. Renner	J.R. Hamel, J. Bond, R. Renner, W. Richards Prospecting, geology, sampling, assays, lake and creek sediment sampling, diamond drilling (2 holes for 240 m)	Assessment Report AFRO# 2.47066, AFRI# 20000006073
2012	R. Renner	J.R. Hamel, J. Bond, R. Renner, W. Richards Prospecting, geology, overburden stripping, sampling and assays	Assessment Report AFRO# 2.50799, AFRI# 20000007081
2012	R. Renner	J.R. Hamel, J. Bond, R. Renner, W. Richards Diamond drilling (1 hole)	Assessment Report AFRO# 2.53866

Table 19. Assay results for grab samples collected by Resident Geologist Program on the Jackfish property (Resident Geologist's Files, Thunder Bay South District, Thunder Bay).

Au	Ag	Cu	Ni	Pb	Zn	Zone	Host	UTM Easting	UTM Northi ng
Units	ppb	oz/ton	ppm	oz/ton	ppm			ppm	ppm
Detect Limit	6	0.01	2	0.1	6			15	4
12DCW R001	580	<2	6	2	15	24	Granodiorite	504409	5408738

12DC WR00 2	97	<2	11	10	<15	18	North	Grano diorite	50439 7	54086 56
12DCW R003	<6	<2	64	8	<15	5		QCV	505039	540820 3
12DC WR00 4	6	8	37	18	18	45	Cliff	QCV	50512 2	54079 92
12DC WR00 5	2679	2	15	11	171	8	Cliff	QCV	50509 5	54079 87
12DC WR00 6	580	>50	6	4	126	322	Cliff	QCV	50512 4	54079 93
12DC WR00 7	>5000	2	9084	68	2086	54	Cliff	QCV	50517 1	54080 15
12DCWR007 DUPLICATE			1.28			505171			5408015	
MPWR 1302	131	<2	12	7	<12	23		Granodi orite	504407	540874 0
MPW R1303	290	<2	38	33	<12	14	North	Grano diorite	50439 5	54086 59
MPW R1304	2377	3	142	99	<12	73	North	Grano diorite	50438 4	54086 54
MPW R1305	430	3	12	25	15	22	Cliff	Grano diorite	50512 0	54080 08
MPW R1306	0.81	2.7	>2500 0	39	1022	123	Cliff	QCV	50515 1	54080 14
MPW R1307	0.12	<0.1	5625	17	158	23	Cliff	QCV	50515 1	54080 14
MPW R1308	0.04	<0.1	175	27	157	24	Cliff	QCV	50517 0	54080 27

North Zone

The North Zone is exposed in a large stripped outcrop area that displays a quartz vein stockwork in granodiorite. Veins exposed on top of the hill at the northeastern end of the stripped area strike 200°, with dips ranging from 35° to 70° to the west. Disseminated sulphides, including pyrite and galena, occur along the contacts between quartz veins and wall rocks. Portions of this outcrop exposure display intense wall rock alteration. One zone of particular interest occurs immediately below a near horizontal quartz vein (Figure 14). The granodiorite in this zone appears to have been largely altered to sericite and iron carbonate and contains disseminated sulphides. A grab sample of this intensely altered granodiorite (MPWR1304) returned 2377 ppb Au. During 2012 and 2013, samples were also collected from granodiorite outcrops located to the north of the North Zone (samples 12DCWR001, 12DCWR002 and MPWR1302). Granodiorite at these locations was mineralized with disseminated pyrite and occasional quartz-carbonate stringers. The best assay obtained from these outcrops was 580 ppb Au in sample 12DCWR001.

SUMMARY AND RECOMMENDATIONS

Two new gold occurrences were recently discovered on the Richards and Hamel Jackfish property. These occurrences are both hosted by granodiorite of the Terrace Bay batholith. Gold at the Cliff Zone occurs in a series of narrow (<20 cm wide), sulphide-mineralized quartz-carbonate veins that strike north and dip 45° toward the west, while gold at the North Zone is associated with a sulphide-mineralized quartz-carbonate stockwork system with more variable vein orientations (although many veins also tend to strike north). At both locations, anomalous gold values are also obtained from altered granodiorite.

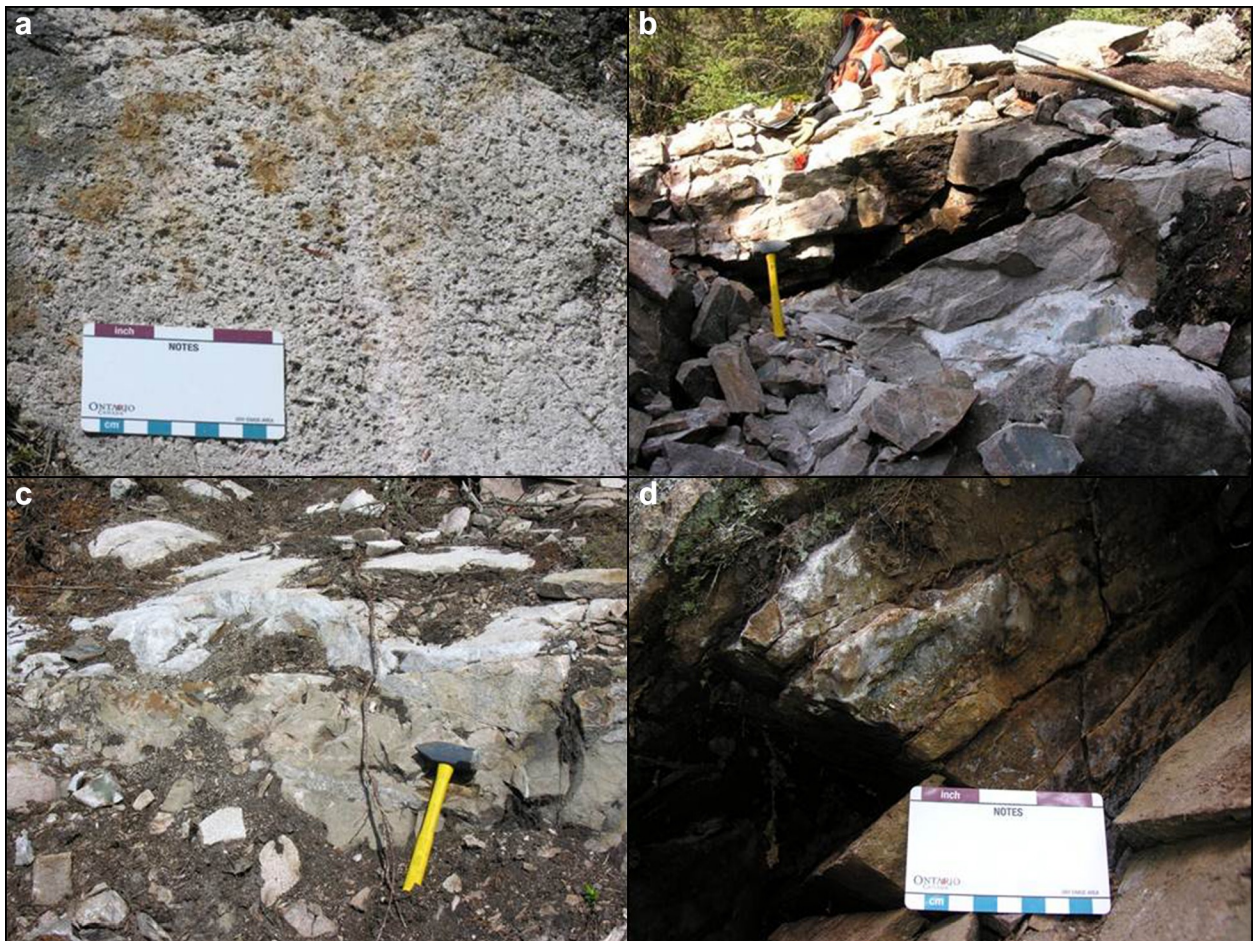


Figure 14. Photos from Jackfish Lake property: a. Granodiorite mineralized with rusty weathered sulphides; b. Quartz vein stockwork system at North Zone; c. Sericite and iron carbonate alteration of granodiorite below near-horizontal quartz vein at North Zone; and d. Chalcopyrite and pyrite mineralization in Cliff Zone vein.

The Cliff Zone is located in close proximity to the southeastern margin of the batholith and a north- to northwest-trending fault zone that was mapped by Walker (1967b) in the metavolcanic rocks and granodiorite east of Sawmill Lake (Figure 15). The contact and fault are bedrock discontinuities that may have played a role in the localization of gold mineralization at the Cliff Zone. As a result, exploration for additional gold mineralization should be carried out in close proximity to these structures.

M.A. Puumala et al.

The North Zone is located approximately 600 m northwest of, and along strike with, the inferred termination of the fault zone discussed above. This observation indicates that the area along this trend between the Cliff Zone and North Zone should be explored for further indications of gold mineralization and faulting.

As noted above, many of the gold-mineralized veins on the Jackfish property tend to strike north. These veins are hosted in late brittle fractures, and their orientations suggest that the gold mineralization event may have been associated with late tectonic north-south directed compression. However, more structural data need to be collected to confirm this interpretation and determine its applicability to exploration in the area east of Jackfish Lake.

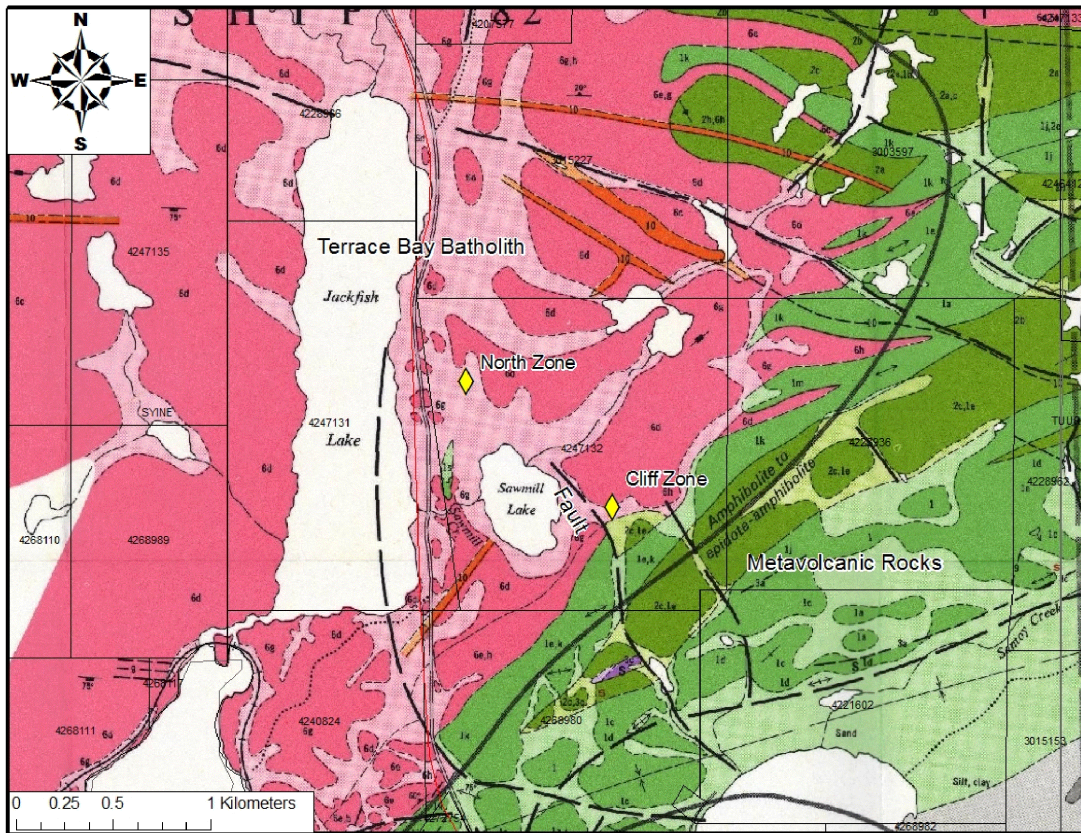


Figure 15. Geological map illustrating gold showings on the Jackfish property relative to fault zones and the contact between the Terrace Bay batholith and metavolcanic rocks (geology from Walker 1967b)

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ONTARIO GEOLOGICAL SURVEY

Open File Report 6293

Report of Activities, 2013 Resident Geologist Program Thunder Bay South Regional Resident Geologist Report: Thunder Bay South District

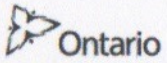
by M.A. Puumala, D.A. Campbell, R.D. Tuomi, R.L. Debicki, A.C. Wilson, P. Moses and M.R. Brunelle 2014

Parts of this publication may be quoted if credit is given. It is recommended that reference to this publication be made in the following form:

Puumala, M.A., Campbell, D.A., Tuomi, R.D., Debicki, R.L., Wilson, A.C., Moses, P. and Brunelle, M.R. 2014. Report of Activities 2013, Resident Geologist Program, Thunder Bay South Regional Resident Geologist Report: Thunder Bay South District; Ontario Geological Survey, Open File Report 6293, 71p.

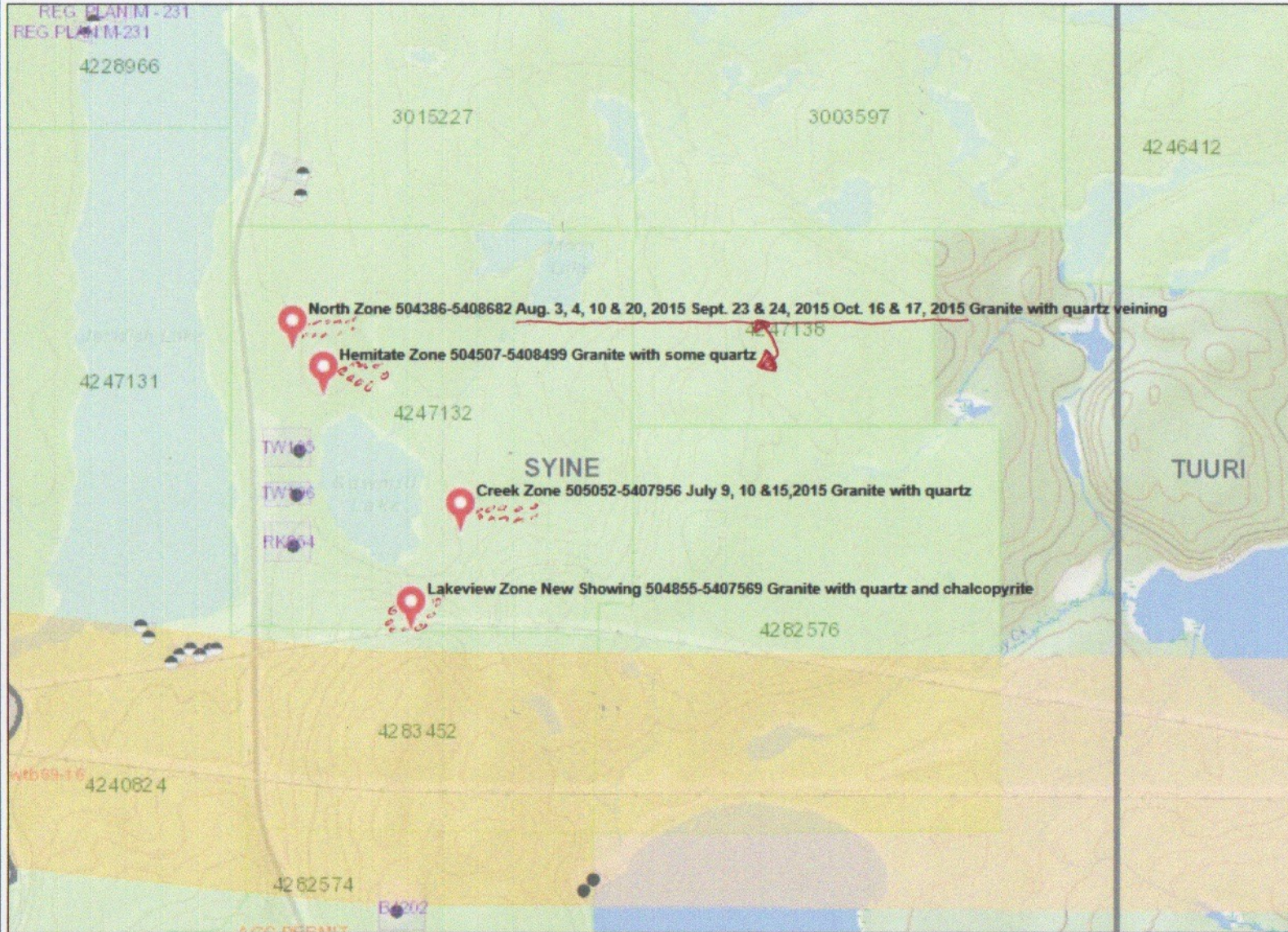
Users of OGS products are encouraged to contact those Aboriginal communities whose traditional territories may be located in the mineral exploration area to discuss their project.

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PROSPECTING JACKFISH PROPERTY

Notes:
CLAIM # 4247132 IN SYINE TOWNSHIP



Legend

Administration Boundaries

- Mining Divisions
- Resident Geologist District
- Townships and Areas
- UTM Grid
- Geographic Lot Fabric
- Other Federal Land

Mineral Tenure Grid

- OMTG Tenure Grid

Alienations

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Unpatented Claim

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Disposition

- Disposition

Disposition Symbols

- Camp
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- Freehold Patent Mining Rights Only
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- Freehold Patent Surface and Mining Rights
- Land Use Permit
- Leasehold Patent Mining Rights Only
- Leasehold Patent Surface Rights Only
- Leasehold Patent Surface and Mining Rights
- License of Occupation Mining Use Only
- License of Occupation Surface Use Only
- License of Occupation Surface and Mining Rights
- License of Occupation Uses Not Specified
- Order in Council
- Tower
- WPLA

Geology Layers

- AMIS Sites
- AMIS Features
- Drill Holes
- Mineral Occurrences



Projection: Web Mercator

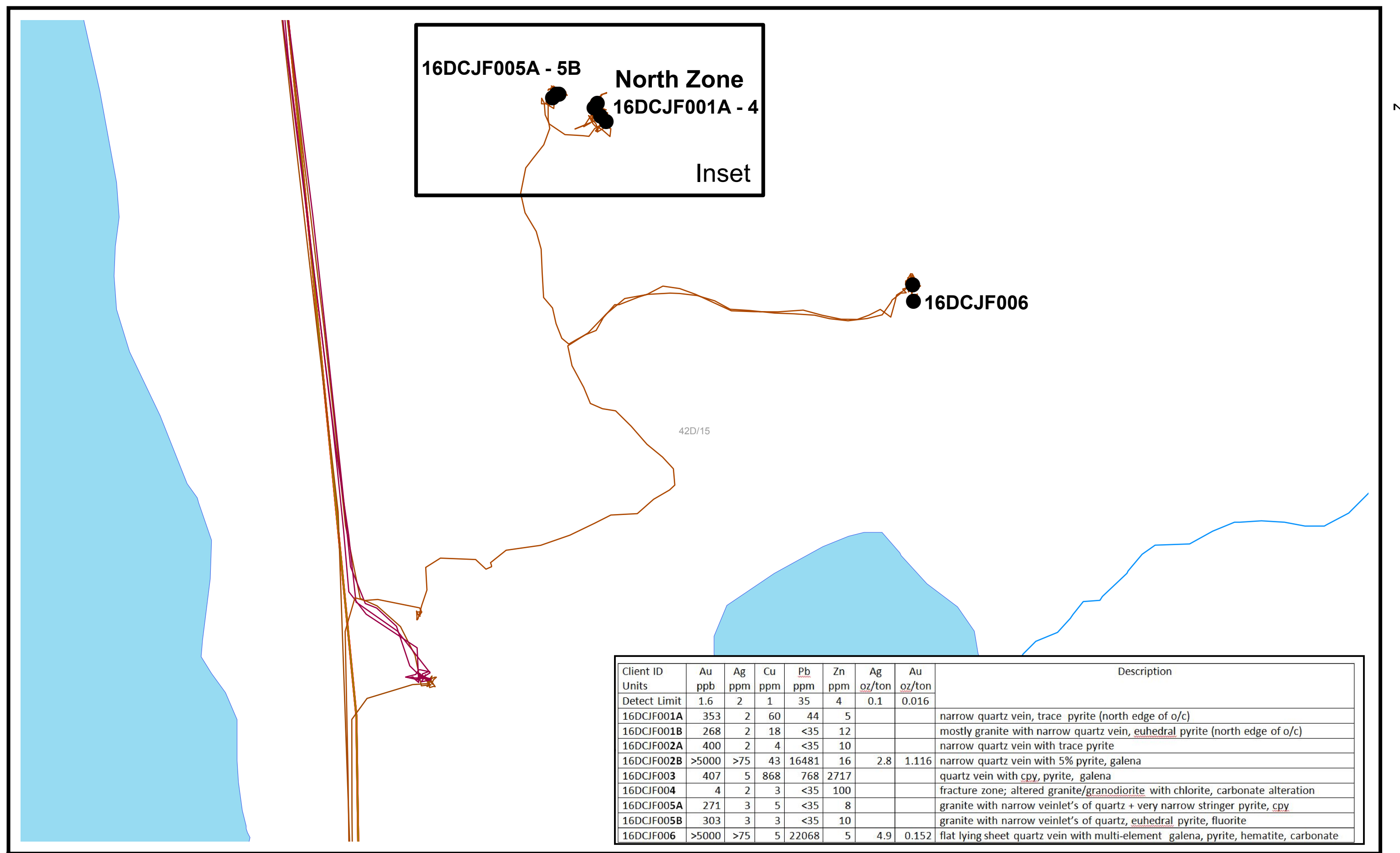


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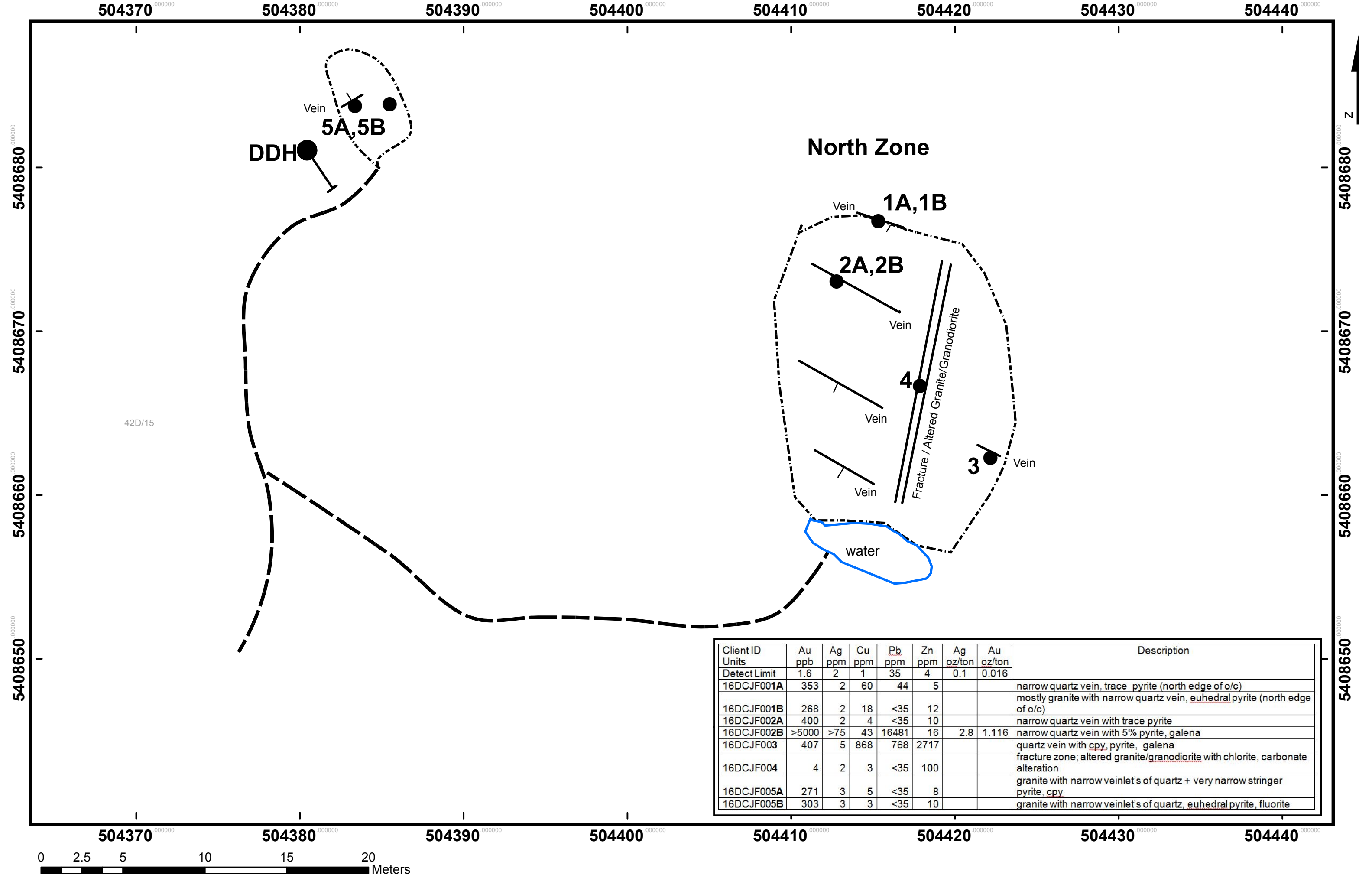


16DCJF005A - 5B
 North Zone
 16DCJF001A - 4
 Inset



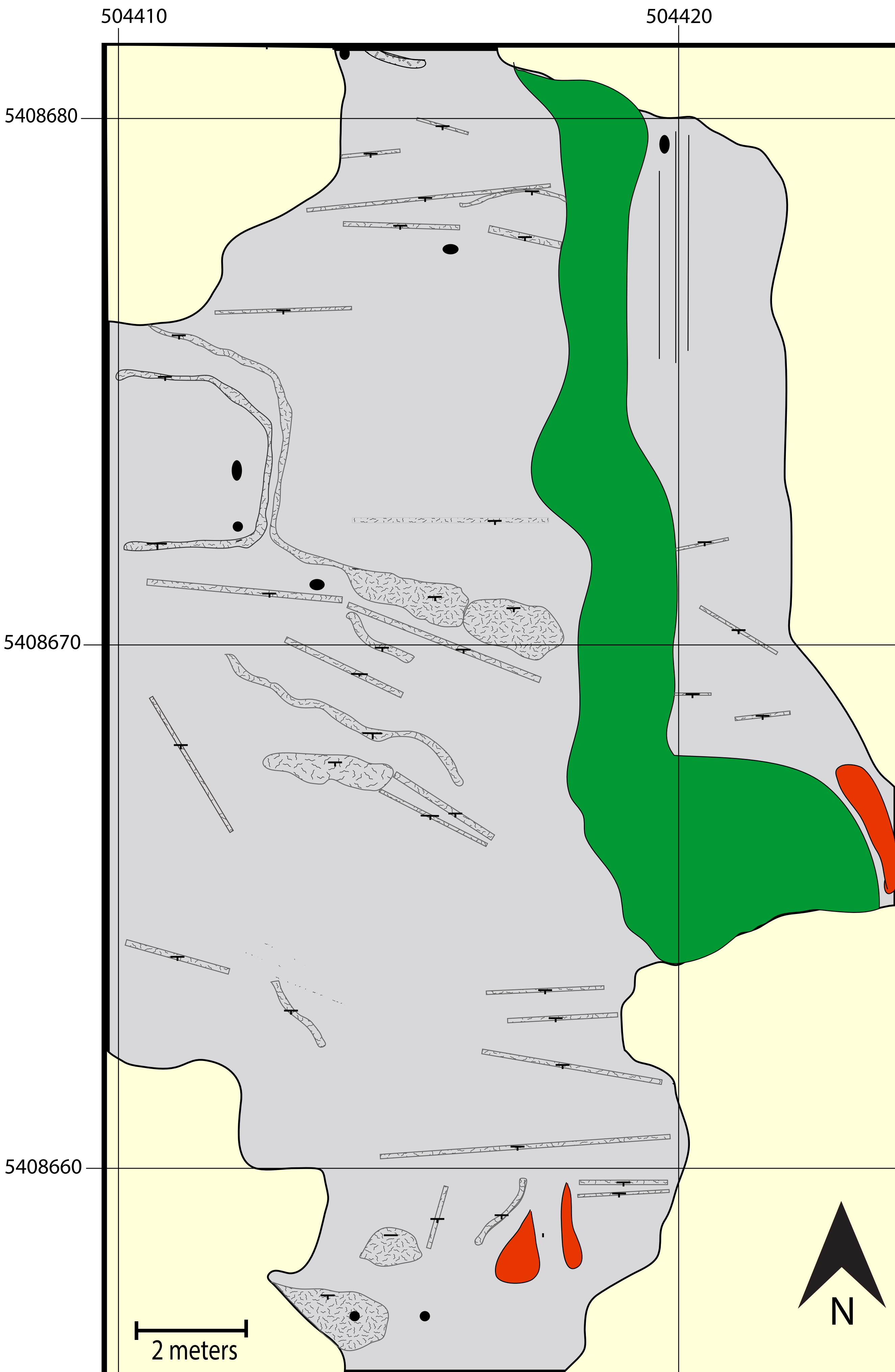
Client ID Units	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Ag oz/ton	Au oz/ton	Description
Detect Limit	1.6	2	1	35	4	0.1	0.016	
16DCJF001A	353	2	60	44	5			narrow quartz vein, trace pyrite (north edge of o/c)
16DCJF001B	268	2	18	<35	12			mostly granite with narrow quartz vein, euhedral pyrite (north edge of o/c)
16DCJF002A	400	2	4	<35	10			narrow quartz vein with trace pyrite
16DCJF002B	>5000	>75	43	16481	16	2.8	1.116	narrow quartz vein with 5% pyrite, galena
16DCJF003	407	5	868	768	2717			quartz vein with cpy, pyrite, galena
16DCJF004	4	2	3	<35	100			fracture zone; altered granite/granodiorite with chlorite, carbonate alteration
16DCJF005A	271	3	5	<35	8			granite with narrow veinlet's of quartz + very narrow stringer pyrite, cpy
16DCJF005B	303	3	3	<35	10			granite with narrow veinlet's of quartz, euhedral pyrite, fluorite
16DCJF006	>5000	>75	5	22068	5	4.9	0.152	flat lying sheet quartz vein with multi-element galena, pyrite, hematite, carbonate

0 25 50 100 150 200
 Meters





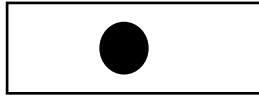

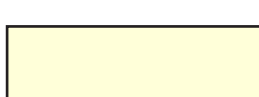





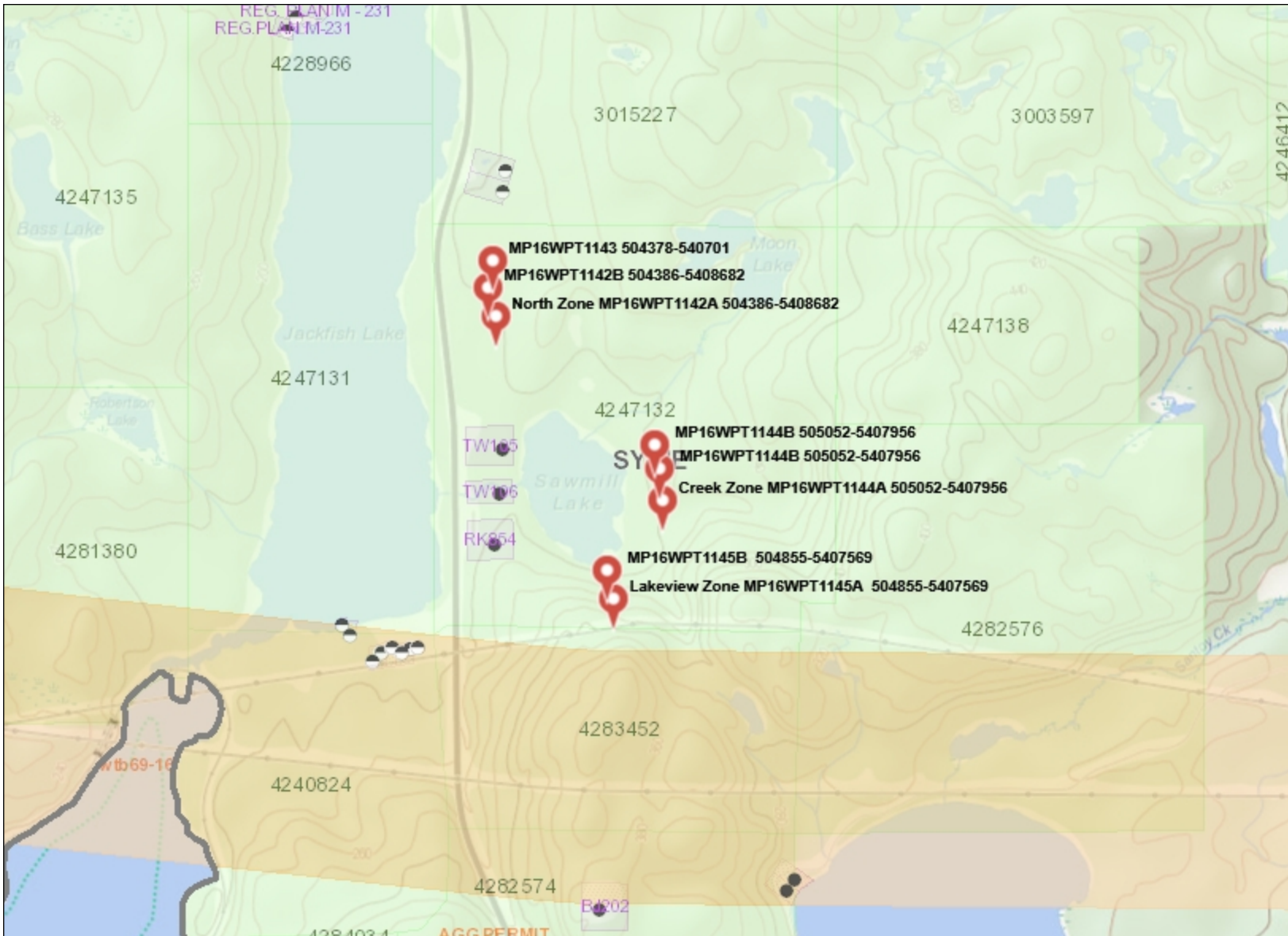
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16DCJF002A	400	2	4	<35	10			narrow quartz vein with trace pyrite
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16DCJF004	4	2	3	<35	100			fracture zone; altered granite/granodiorite with chlorite, carbonate alteration
16DCJF005A	271	3	5	<35	8			granite with narrow veinlet's of quartz + very narrow stringer pyrite, cpy
16DCJF005B	303	3	3	<35	10			granite with narrow veinlet's of quartz, euhedral pyrite, fluorite

Trench map of the North Zone



Legend

-  Granodiorite
-  Chlorite altered granodiorite
-  Sulphide rich granodiorite
-  Quartz veins
-  Mafic xenoliths
-  Pegmatitic veins
-  Overburden
-  Joints
-  Dip direction
-  2 meters



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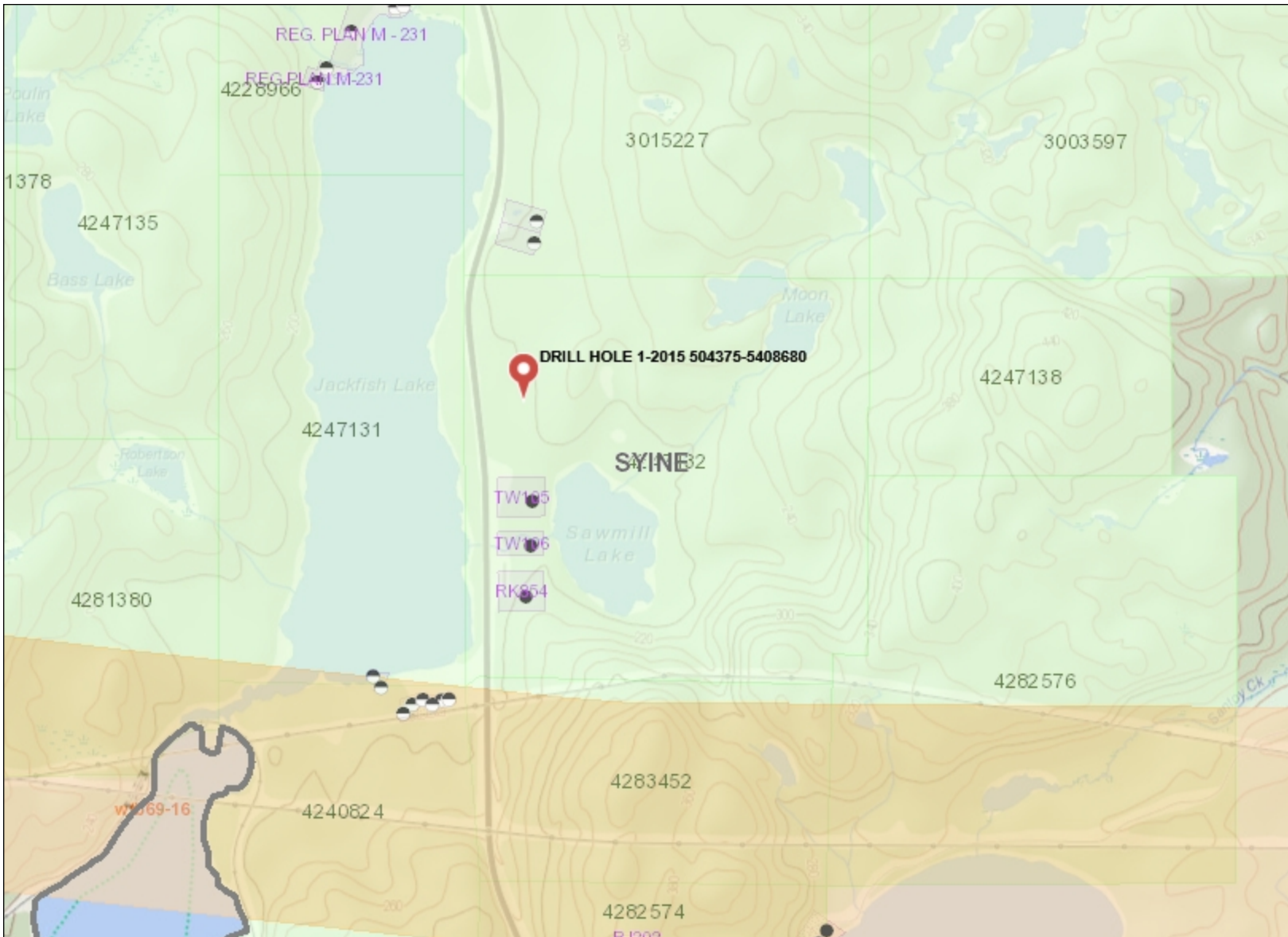
Projection: Web Mercator



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- Leasehold Patent Surface Rights Only
- Leasehold Patent Surface and Mining Rights
- License of Occupation Mining Use Only
- License of Occupation Surface Use Only
- License of Occupation Surface and Mining Rights
- License of Occupation Uses Not Specified
- Order in Council
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- Mineral Occurrences



Projection: Web Mercator



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CORE LOG
JACKFISH PROPERTY
CLAIM # 4247132

NAME: HOLE 1-2015 / SIZE: BTW / DATUM NAD83 / PROJECTION UTM ZONE 16 /
EAST 504375 NORTH 5408680 / DIP: -45 DEGREE / AZIMUTH 150 DEGREE / DEPTH: 103m

COLLAR / OVER BURDEN	2.75m
Granite	2.75m to 4.16m
Quartz vein 2cm wide with minor sulfides & galena	4.16m to 4.18m
Granite	4.18m to 7.5m
Quartz in granite with minor sulfides & galena quartz vein 23cm wide	7.5m to 24.0mq
Quartz vein 3cm wide	24.0m to 24.03m
Granite	24.03m to 34.5m
Greenstone rock 30cm wide	34.5m to 34.80m
Granite	34.80m to 37.5m
Altered granite	37.5m to 41.30m
Granite	41.30m to 45.13m
Quartz vein	45.13m to 45.22m
Granite	45.22m to 48.5m
Greenstone rock with minor sulfides with a few quartz stringers	48.5m to 56.50m
Granite with 5% sulfides, chalcopryite & galena	56.5m to 57.0m
Greenstone rock	57.0m to 59.30m
Granite, galena, chalcopryite & pyrite Approximately 6% sulfides	59.30m to 59.80m
Greenstone rock	59.80m to 60m
Granite	60m to 65.30m
Greenstone rock	65.30m to 69m
Quartz with minor pyrite	69.05m to 69.13m
Granite	69.13m to 70.5m
Greenstone rock no visible sulfides	70.5m to 71.30m
Granite	71.30m to 95.0m
Greenstone rock	95.0m to 96.68m
Granite with minor sulfides	96.68m to 103.3m

The core was logged by Wayne Richards & Francine Richards on June 24 & 25, 2017.

The drilling started on October 30, 2015 and ended on November 5, 2015.

All the drilling was done by Richards Exploration / Wayne Richards.

Core is being stored at Jackfish Lake Cottages.

GEOSCIENCE LABORATORIES
CERTIFICATE OF ANALYSIS



Client: Campbell
Geo Labs JOB#: 16-0137
Date: 9/6/2016
Method Code: IAT-100

Client ID	Cu	Pb	Zn
Units	ppm	ppm	ppm
Detection Limit	1	35	4
16DCJF001A w	60	44	5
16DCJF001B w	18	<35	12
16DCJF002A w	4	<35	10
16DCJF002B w	43	16481	16
16DCJF003 w47	868	768	2717
16DCJF004 wpt	3	<35	100
16DCJF005A wj	5	<35	8
16DCJF005B wj	3	<35	10
16DCJF006 wpt	5	22068	5



CERTIFICATE OF ANALYSIS
GEO LABS
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Geoscience Laboratories (Geo Labs)
 933 Ramsey Lake Road, Bldg A4
 Sudbury, ON P3E 6B5
 Phone: (705) 670-5637
 Toll Free: 1-866-436-5227
 Fax: (705) 670-3047

Issued To:
 Mr. M. Puumala
 MNM - OGS - RGO - Thunder Bay
 435 James Street South, Suite B002
 Thunder Bay, Ontario P7E 6S7 Canada

Phone: 807-475-1649
Fax: 807-475-1112
Email: mark.puumala@ontario.ca
Client No.: 1423

Certificate No: CRT-16-0218-03
Certificate Date: 11/4/2016
Project Number: Sept 8 2016

Geo Labs Job No.: 16-0218
Submission date: 9/20/2016

Delivery Via: Email
QC Requested: Y

Method Code reported with this certificate: GFA-PBG

Method Code	Description	QTY	Test Status
GFA-PBG	Gravimetric Fire Assay	15	Complete
GFA-PBH	Gravimetric Fire Assay Sample Preparation High Level	26	Complete
IAT-100	ICP-AES With Multi-Acid Open Vessel Digestion	9	In Progress
IMP-101	Lead Fire Assay with ICP-MS Finish	26	In Progress
SAM-SPA	Ring Mill Sample Preparation (Using Cr Steel)	22	Complete
SAM-SPG	Ball Mill Sample Preparation (Using Al Oxide Bowls)	5	Complete
SOL-PGH	PGE High Digestion	26	In Progress
XRF-M01	XRF Major Elements	3	Complete
XRF-T02	XRF Trace Elements	2	Complete

Legend:
 < = Not Detected
 N.M. = Not Measured
 Please refer to the Geo Labs Job No. 16-0218 if you have any questions.

CERTIFIED BY:


 Renée-Luce Simard, Acting GeoServices Senior Manager

Date: Nov 8/2016

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GEOSCIENCE LABORATORIES
CERTIFICATE OF ANALYSIS



Client: Puumala
Geo Labs JOB#: 16-0218
Date: 11/4/2016
Method Code: GFA-PBG

Client ID	Ag	Au
Units	oz/ton	oz/ton
Detection Limit	0.1	0.016
MP16WPT1075	0.4	0.628
MP16WPT1076	<0.1	0.060
MP16WPT1077	<0.1	0.058
MP16WPT1079	<0.1	<0.016
MP16WPT1112	<0.1	0.104
MP16WPT1113A	<0.1	<0.016
MP16WPT1113B	<0.1	<0.016
MP16WPT1118	<0.1	<0.016
MP16WPT1119	<0.1	<0.016
MP16WPT1121	<0.1	<0.016
MP16WPT1123	<0.1	<0.016
MP16WPT1124	<0.1	0.217
MP16WPT1125	<0.1	0.037
MP16WPT1126	<0.1	1.786
MP16WPT1145A	<0.1	<0.016



CERTIFICATE OF QUALITY CONTROL
GEO LABS
GEOSCIENCE LABORATORIES

Date: 11/4/2016
Geoscience Laboratories
933 Ramsey Lake Road, Bldg A4
Sudbury, ON P3E 6B5
Phone: (705) 670-5637
Toll Free: 1-866-436-5227
Fax: (705) 670-3047

Client: Puumala
Project #: Sept 8 2016

Geoscience Laboratories Ref # : 16-0218
Method : GFA-PBG

Lab ID	Client ID	QC Name	Analyte	Units	Measured Value	Certified Value	Long Term Average
DUP-16-40898	MP16WPT1119	DUP	Ag	oz/ton	0.0		
DUP-16-40898	MP16WPT1119	DUP	Au	oz/ton	0.000		
DUP-16-40899	MP16WPT1125	DUP	Ag	oz/ton	0.0		
DUP-16-40899	MP16WPT1125	DUP	Au	oz/ton	0.035		
INTL-16-27694		SQ47	Ag	oz/ton	3.7		
INTL-16-27694		SQ47	Au	oz/ton	1.176		

Note

IHST = InHouse Reference Material
INTL = International Reference Material
CORM = Certified Ontario Reference Material
INST = Instrument Control
DUP = Laboratory Duplicate
BLANK = Laboratory Blank



CERTIFICATE OF ANALYSIS
GEO LABS
GEOSCIENCE LABORATORIES

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 933 Ramsey Lake Road, Bldg A4
 Sudbury, ON P3E 6B5
 Phone: (705) 670-5637
 Toll Free: 1-866-436-5227
 Fax: (705) 670-3047

Issued To: Mr. M. Puumala MNM - OGS - RGO - Thunder Bay 435 James Street South, Suite B002 Thunder Bay, Ontario P7E 6S7 Canada Phone: 807-475-1649 Fax: 807-475-1112 Email: mark.puumala@ontario.ca Client No.: 1423	Certificate No: CRT-16-0218-09 Certificate Date: 11/18/2016 Project Number: Sept 8 2016
	Geo Labs Job No.: 16-0218 Submission date: 9/20/2016
	Delivery Via: Email QC Requested: Y

Method Code reported with this certificate: IMP-101

Method Code	Description	QTY	Test Status
GFA-PBG	Gravimetric Fire Assay	15	Complete
GFA-PBH	Gravimetric Fire Assay Sample Preparation High Level	26	Complete
IAT-100	ICP-AES With Multi-Acid Open Vessel Digestion	9	In Progress
IMP-101	Lead Fire Assay with ICP-MS Finish	26	Complete
SAM-SPA	Ring Mill Sample Preparation (Using Cr Steel)	22	Complete
SAM-SPG	Ball Mill Sample Preparation (Using Al Oxide Bowls)	5	Complete
SOL-PGH	PGE High Digestion	26	Complete
XRF-M01	XRF Major Elements	3	Complete
XRF-T02	XRF Trace Elements	2	Complete

Legend:

< = Not Detected

N.M. = Not Measured

Please refer to the Geo Labs Job No. 16-0218 if you have any questions.

CERTIFIED BY:


 Renée-Luce Simard, Acting GeoServices Senior Manager

Date: Nov 22 / 16

Except by special permission, reproduction of these results must include any qualifying remarks made by this Ministry with reference to any sample. Results are for samples as received.

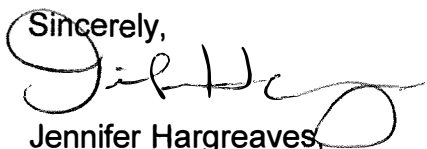
Q.C. NOTE TO ACCOMPANY ANALYTICAL RESULTS

Client : Puumala
Job # : 16-0218
Test : IMP-101
Sample # : see below
Date : November 21, 2016

Please Note:

Before being reported, data from the IMP-101 method are corrected for the average method blank, adjusted for sample mass. A recent evaluation of the method showed that, over the last few years, improvements to the reagents and equipment used during fusion and analysis stages have decreased the average blank and that the required correction has decreased by approximately 0.6 ppb Pd, 0.1 ppb Pt, and 0.3 ppb Au for most samples and double that for small samples. The smaller correction was implemented on 14/09/2016 and is reflected in the current report. Because older data were corrected using a higher average blank, it is possible that any long-term QC will show an offset. If you would like additional work please contact Kayla Kalmo at (705) 670-5632 or email Kayla.Kalmo@ontario.ca.

Sincerely,



Jennifer Hargreaves,

Quality Assurance Coordinator



GEOSCIENCE LABORATORIES
CERTIFICATE OF ANALYSIS



Client: Puumala

Geo Labs JOB#: 16-0218

Date: 11/18/2016

Method Code: IMP-101

Client ID	Au	Pd	Pt
Units	ppb	ppb	ppb
Detection Limit	1.6	1.3	0.4
MP16WPT1068	27	26.5	14.1
MP16WPT1076	3331	<1.3	0.4
MP16WPT1077	1508	11.2	0.9
MP16WPT1079	169	<1.3	<0.4
MP16WPT1112	3608	<1.3	<0.4
MP16WPT1113A	126	<1.3	<0.4
MP16WPT1113B	43	<1.3	0.9
MP16WPT1118	10	<1.3	<0.4
MP16WPT1119	3	<1.3	<0.4
MP16WPT1121	71	<1.3	<0.4
MP16WPT1122	5	<1.3	2.0
MP16WPT1123	28	<1.3	1.3
MP16WPT1124	>5000	<1.3	<0.4
MP16WPT1125	1352	<1.3	0.8
MP16WPT1126	>5000	<1.3	0.5
MP16WPT1142A	89	<1.3	<0.4
MP16WPT1142B	111	<1.3	<0.4
MP16WPT1143	51	<1.3	<0.4
MP16WPT1144A	2	<1.3	<0.4
MP16WPT1144B	18	<1.3	<0.4
MP16WPT1144C	111	<1.3	<0.4
MP16WPT1145A	272	<1.3	<0.4
MP16WPT1145B	2	<1.3	<0.4



**GEOSCIENCE LABORATORIES
CERTIFICATE OF ANALYSIS**



Client: Puumala

Geo Labs JOB#: 16-0218

Date: 11/18/2016

Method Code: IMP-101

Client ID	Au	Pd	Pt
Units	ppb	ppb	ppb
Detection Limit	1.6	1.3	0.4
MP16WPT1146	17	3.1	4.4
MP16WPT1147A	4	<1.3	<0.4
MP16WPT1147B	7	5.1	17.6



CERTIFICATE OF ANALYSIS
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Geoscience Laboratories (Geo Labs)
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 Toll Free: 1-866-436-5227
 Fax: (705) 670-3047

Issued To: Mr. M. Puumala MNDM - OGS - RGO - Thunder Bay 435 James Street South, Suite B002 Thunder Bay, Ontario P7E 6S7 Canada Phone: 807-475-1649 Fax: 807-475-1112 Email: mark.puumala@ontario.ca Client No.: 1423	Certificate No: CRT-16-0218-12 Certificate Date: 12/8/2016 Project Number: Sept 8 2016
	Geo Labs Job No.: 16-0218 Submission date: 9/20/2016
	Delivery Via: Email QC Requested: Y

Method Code reported with this certificate: IAT-100

Method Code	Description	QTY	Test Status
GFA-PBG	Gravimetric Fire Assay	15	Complete
GFA-PBH	Gravimetric Fire Assay Sample Preparation High Level	26	Complete
IAT-100	ICP-AES With Multi-Acid Open Vessel Digestion	9	Complete
IMP-101	Lead Fire Assay with ICP-MS Finish	26	Complete
SAM-SPA	Ring Mill Sample Preparation (Using Cr Steel)	22	Complete
SAM-SPG	Ball Mill Sample Preparation (Using Al Oxide Bowls)	5	Complete
SOL-PGH	PGE High Digestion	26	Complete
XRF-M01	XRF Major Elements	3	Complete
XRF-T02	XRF Trace Elements	2	Complete

Legend:
 < = Not Detected
 N.M. = Not Measured
 Please refer to the Geo Labs Job No. 16-0218 if you have any questions.

CERTIFIED BY:


 Renée-Luce Simard, Acting GeoServices Senior Manager

Date: Dec 10 / 2016

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**GEOSCIENCE LABORATORIES
CERTIFICATE OF ANALYSIS**



Client: Puumala
Geo Labs JOB#: 16-0218
Date: 12/8/2016
Method Code: IAT-100

Client ID	Co	Cu	Ni	Pb	Zn
Units	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	1	2	35	4
MP16WPT1068	56	468	250		
MP16WPT1118		66		<35	69
MP16WPT1123		96		<35	179
MP16WPT1125		24		<35	48
MP16WPT1126		69		601	198
MP16WPT1145A		9980		<35	11
MP16WPT1146		28		<35	27
MP16WPT1147A		19		<35	98
MP16WPT1147B		129		<35	61



CERTIFICATE OF QUALITY CONTROL
GEO LABS
GEOSCIENCE LABORATORIES

Date: 12/8/2016
Geoscience Laboratories
933 Ramsey Lake Road, Bldg A4
Sudbury, ON P3E 6B5
Phone: (705) 670-5637
Toll Free: 1-866-436-5227
Fax: (705) 670-3047

Client: Puumala
Project #: Sept 8 2016

Geoscience Laboratories Ref # : 16-0218
Method : IAT-100

Lab ID	Client ID	QC Name	Analyte	Units	Measured Value	Certified Value	Long Term Average
BLANK-16-17538		BLANK	Al	ppm	7		
BLANK-16-17538		BLANK	Ba	ppm	0		
BLANK-16-17538		BLANK	Ca	ppm	6		
BLANK-16-17538		BLANK	Co	ppm	-0		
BLANK-16-17538		BLANK	Cr	ppm	-1		
BLANK-16-17538		BLANK	Cu	ppm	-0		
BLANK-16-17538		BLANK	Fe	ppm	32		
BLANK-16-17538		BLANK	K	ppm	0		
BLANK-16-17538		BLANK	Li	ppm	-0		
BLANK-16-17538		BLANK	Mg	ppm	10		
BLANK-16-17538		BLANK	Mn	ppm	0		
BLANK-16-17538		BLANK	Na	ppm	5		
BLANK-16-17538		BLANK	Ni	ppm	0		
BLANK-16-17538		BLANK	Pb	ppm	-2		
BLANK-16-17538		BLANK	Sc	ppm	0		
BLANK-16-17538		BLANK	Sr	ppm	-1		
BLANK-16-17538		BLANK	Ti	ppm	-0		
BLANK-16-17538		BLANK	V	ppm	1		
BLANK-16-17538		BLANK	Y	ppm	0		
BLANK-16-17538		BLANK	Zn	ppm	-1		
DUP-16-41280	MP16WPT1146	DUP	Cu	ppm	28		
DUP-16-41280	MP16WPT1146	DUP	Pb	ppm	3		
DUP-16-41280	MP16WPT1146	DUP	Zn	ppm	27		

Note

IHST = InHouse Reference Material
INTL = International Reference Material
CORM = Certified Ontario Reference Material
INST = Instrument Control
DUP = Laboratory Duplicate
BLANK = Laboratory Blank

Lab ID	Client ID	QC Name	Analyte	Units	Measured Value	Certified Value	Long Term Average
IHST-16-22335		MRB-29	Al	ppm	64461		
IHST-16-22335		MRB-29	Ba	ppm	263		
IHST-16-22335		MRB-29	Ca	ppm	57963		
IHST-16-22335		MRB-29	Co	ppm	40		
IHST-16-22335		MRB-29	Cr	ppm	257		
IHST-16-22335		MRB-29	Cu	ppm	131		
IHST-16-22335		MRB-29	Fe	ppm	91700		
IHST-16-22335		MRB-29	K	ppm	5725		
IHST-16-22335		MRB-29	Li	ppm	11		
IHST-16-22335		MRB-29	Mg	ppm	36791		
IHST-16-22335		MRB-29	Mn	ppm	1320		
IHST-16-22335		MRB-29	Na	ppm	17426		
IHST-16-22335		MRB-29	Ni	ppm	104		
IHST-16-22335		MRB-29	Pb	ppm	10		
IHST-16-22335		MRB-29	Sc	ppm	29		
IHST-16-22335		MRB-29	Sr	ppm	291		
IHST-16-22335		MRB-29	Ti	ppm	11592		
IHST-16-22335		MRB-29	V	ppm	303		
IHST-16-22335		MRB-29	Y	ppm	25		
IHST-16-22335		MRB-29	Zn	ppm	123		
INTL-16-27982		RTS-3a	Al	ppm	50786		
INTL-16-27982		RTS-3a	Ba	ppm	114		
INTL-16-27982		RTS-3a	Ca	ppm	21515		
INTL-16-27982		RTS-3a	Co	ppm	137		
INTL-16-27982		RTS-3a	Cr	ppm	182		
INTL-16-27982		RTS-3a	Cu	ppm	2306		
INTL-16-27982		RTS-3a	Fe	ppm	204384		
INTL-16-27982		RTS-3a	K	ppm	4509		
INTL-16-27982		RTS-3a	Li	ppm	14		
INTL-16-27982		RTS-3a	Mg	ppm	25044		
INTL-16-27982		RTS-3a	Mn	ppm	1540		
INTL-16-27982		RTS-3a	Na	ppm	6584		

Note

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Lab ID	Client ID	QC Name	Analyte	Units	Measured Value	Certified Value	Long Term Average
INTL-16-27982		RTS-3a	Ni	ppm	62		
INTL-16-27982		RTS-3a	Pb	ppm	195		
INTL-16-27982		RTS-3a	Sc	ppm	14		
INTL-16-27982		RTS-3a	Sr	ppm	42		
INTL-16-27982		RTS-3a	Ti	ppm	3530		
INTL-16-27982		RTS-3a	V	ppm	118		
INTL-16-27982		RTS-3a	Y	ppm	12		
INTL-16-27982		RTS-3a	Zn	ppm	3111		
INTL-16-27983		SU-1a	Al	ppm	51282		
INTL-16-27983		SU-1a	Ba	ppm	299		
INTL-16-27983		SU-1a	Ca	ppm	31390		
INTL-16-27983		SU-1a	Co	ppm	354		
INTL-16-27983		SU-1a	Cr	ppm	277		
INTL-16-27983		SU-1a	Cu	ppm	9524		
INTL-16-27983		SU-1a	Fe	ppm	186674		
INTL-16-27983		SU-1a	K	ppm	7776		
INTL-16-27983		SU-1a	Li	ppm	14		
INTL-16-27983		SU-1a	Mg	ppm	25455		
INTL-16-27983		SU-1a	Mn	ppm	925		
INTL-16-27983		SU-1a	Na	ppm	13099		
INTL-16-27983		SU-1a	Ni	ppm	11233		
INTL-16-27983		SU-1a	Pb	ppm	84		
INTL-16-27983		SU-1a	Sc	ppm	13		
INTL-16-27983		SU-1a	Sr	ppm	214		
INTL-16-27983		SU-1a	Ti	ppm	2982		
INTL-16-27983		SU-1a	V	ppm	114		
INTL-16-27983		SU-1a	Y	ppm	14		
INTL-16-27983		SU-1a	Zn	ppm	210		

Note

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CERTIFICATE OF ANALYSIS
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 Fax: (705) 670-3047

Issued To:
 Ms. D. Campbell
 MNDM - OGS - RGO - Thunder Bay
 435 James Street South
 Thunder Bay, ON P7E 6S7 Canada

Phone: 807-475-1102
Fax: 807-475-1112
Email: dorothy.campbell@ontario.ca
Client No.: 968

Certificate No: CRT-16-0137-08
Certificate Date: 9/27/2016
Project Number:

Geo Labs Job No.: 16-0137
Submission date: 7/18/2016

Delivery Via: Email
QC Requested: Y

Method Code reported with this certificate: IMP-101

Method Code	Description	QTY	Test Status
AAF-200	AAS: Atomic Absorption Flame	9	Complete
GFA-PBH	Gravimetric Fire Assay Sample Preparation High Level	9	Complete
IAT-100	ICP-AES With Multi-Acid Open Vessel Digestion	9	Complete
IMC-100	ICP-MS With Closed Vessel Multi-Acid Digestion	1	In Progress
IMP-101	Lead Fire Assay with ICP-MS Finish	9	Complete
SAM-SPA	Ring Mill Sample Preparation (Using Cr Steel)	8	Complete
SAM-SPG	Ball Mill Sample Preparation (Using Al Oxide Bowls)	1	Complete
SOL-CAIO	Closed Vessel Multi-Acid Digestion	1	In Progress
SOL-PGH	PGE High Digestion	9	Complete

Legend:
 < = Not Detected
 N.M. = Not Measured
 Please refer to the Geo Labs Job No. 16-0137 if you have any questions.

CERTIFIED BY: _____

Date: _____

Ed Debicki, Laboratory Manager

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GEOSCIENCE LABORATORIES
CERTIFICATE OF ANALYSIS



Client: Campbell
Geo Labs JOB#: 16-0137
Date: 9/27/2016
Method Code: IMP-101

Client ID	Au	Pd	Pt
Units	ppb	ppb	ppb
Detection Limit	1.6	1.3	0.4
16DCJF001A w•	353	<1.3	<0.4
16DCJF001B w•	268	<1.3	<0.4
16DCJF002A w•	400	<1.3	<0.4
16DCJF002B w•	>5000	<1.3	<0.4
16DCJF003 w47	407	<1.3	<0.4
16DCJF004 wpt	4	<1.3	<0.4
16DCJF005A w	271	<1.3	<0.4
16DCJF005B w	303	<1.3	<0.4
16DCJF006 wpt	>5000	<1.3	<0.4



CERTIFICATE OF QUALITY CONTROL
GEO LABS
GEOSCIENCE LABORATORIES

Date: 9/27/2016
Geoscience Laboratories
933 Ramsey Lake Road, Bldg A4
Sudbury, ON P3E 6B5
Phone: (705) 670-5637
Toll Free: 1-866-436-5227
Fax: (705) 670-3047

Client: Campbell
Project #:

Geoscience Laboratories Ref # : 16-0137
Method : IMP-101

Lab ID	Client ID	QC Name	Analyte	Units	Measured Value	Certified Value	Long Term Average
BLANK-16-17131		BLANK	Au	ppb	0		
BLANK-16-17131		BLANK	Pd	ppb	0.0		
BLANK-16-17131		BLANK	Pt	ppb	0.0		
BLANK-16-17132		RBLK	Au	ppb	1		
BLANK-16-17132		RBLK	Pd	ppb	0.1		
BLANK-16-17132		RBLK	Pt	ppb	0.0		
DUP-16-40401	16DCJF003 w47	DUP	Au	ppb	1249		
DUP-16-40401	16DCJF003 w47	DUP	Pd	ppb	-0.2		
DUP-16-40401	16DCJF003 w47	DUP	Pt	ppb	-0.0		
IHST-16-21667		LDI-1	Au	ppb	100		
IHST-16-21667		LDI-1	Pd	ppb	905.9		
IHST-16-21667		LDI-1	Pt	ppb	94.2		
INTL-16-27382		WGB-1	Au	ppb	5		
INTL-16-27382		WGB-1	Pd	ppb	11.6		
INTL-16-27382		WGB-1	Pt	ppb	4.1		

Note

IHST = InHouse Reference Material
INTL = International Reference Material
CORM = Certified Ontario Reference Material
INST = Instrument Control
DUP = Laboratory Duplicate
BLANK = Laboratory Blank



CERTIFICATE OF QUALITY CONTROL

GEO LABS
GEOSCIENCE LABORATORIES

Date: 9/6/2016
Geoscience Laboratories
933 Ramsey Lake Road, Bldg A4
Sudbury, ON P3E 6B5
Phone: (705) 670-5637
Toll Free: 1-866-436-5227
Fax: (705) 670-3047

Client: Campbell
Project #:

Geoscience Laboratories Ref # : 16-0137
Method : IAT-100

Lab ID	Client ID	QC Name	Analyte	Units	Measured Value	Certified Value	Long Term Average
DUP-16-40256	16DCJF003 w47	DUP	Cu	ppm	875		
DUP-16-40256	16DCJF003 w47	DUP	Pb	ppm	775		
DUP-16-40256	16DCJF003 w47	DUP	Zn	ppm	2764		

Note

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CERTIFICATE OF ANALYSIS
GEO LABS
GEOSCIENCE LABORATORIES

Geoscience Laboratories (Geo Labs)
 933 Ramsey Lake Road, Bldg A4
 Sudbury, ON P3E 6B5
 Phone: (705) 670-5637
 Toll Free: 1-866-436-5227
 Fax: (705) 670-3047

Issued To:
 Ms. D. Campbell
 MNDM - OGS - RGO - Thunder Bay
 435 James Street South
 Thunder Bay, ON P7E 6S7 Canada

Phone: 807-475-1102
Fax: 807-475-1112
Email: dorothy.campbell@ontario.ca
Client No.: 968

Certificate No: CRT-16-0137-10
Certificate Date: 11/16/2016
Project Number:

Geo Labs Job No.: 16-0137
Submission date: 7/18/2016

Delivery Via: Email
QC Requested: Y

Method Code reported with this certificate: IMC-100

Method Code	Description	QTY	Test Status
AAF-200	AAS: Atomic Absorption Flame	9	Complete
GFA-PBH	Gravimetric Fire Assay Sample Preparation High Level	9	Complete
IAT-100	ICP-AES With Multi-Acid Open Vessel Digestion	9	Complete
IMC-100	ICP-MS With Closed Vessel Multi-Acid Digestion	1	Complete
IMP-101	Lead Fire Assay with ICP-MS Finish	9	Complete
SAM-SPA	Ring Mill Sample Preparation (Using Cr Steel)	8	Complete
SAM-SPG	Ball Mill Sample Preparation (Using Al Oxide Bowls)	1	Complete
SOL-CAIO	Closed Vessel Multi-Acid Digestion	1	Complete
SOL-PGH	PGE High Digestion	9	Complete

Legend:
 < = Not Detected
 N.M. = Not Measured
 Please refer to the Geo Labs Job No. 16-0137 if you have any questions.

CERTIFIED BY: _____

 Renée-Luce Simard, Acting GeoServices Senior Manager

Date: _____

Except by special permission, reproduction of these results must include any qualifying remarks made by this Ministry with reference to any sample. Results are for samples as received.

GEOSCIENCE LABORATORIES
CERTIFICATE OF ANALYSIS



Client: Campbell
Geo Labs JOB#: 16-0137
Date: 11/16/2016
Method Code: IMC-100

Client ID	Ba	Be	Bi	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.8	0.04	0.47	0.013	0.12	0.13	3	0.013	1.4	0.009	0.007
16DCJF004 wpt46	718.1	1.71	<0.47	0.068	107.76	16.61	55	2.309	1.7	2.016	0.929

**GEOSCIENCE LABORATORIES
CERTIFICATE OF ANALYSIS**



Client: Campbell
Geo Labs JOB#: 16-0137
Date: 11/16/2016
Method Code: IMC-100

Client ID	Eu	Ga	Gd	Hf	Ho	In	La	Li	Lu	Mo	Nb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.0031	0.04	0.009	0.14	0.0025	0.0018	0.1	0.4	0.002	0.08	0.028
16DCJF004 wpt46	1.4730	23.69	3.689	3.79	0.3396	0.0253	52.52	26.2	0.1557	2.04	4.652

GEOSCIENCE LABORATORIES
CERTIFICATE OF ANALYSIS



Client: Campbell
Geo Labs JOB#: 16-0137
Date: 11/16/2016
Method Code: IMC-100

Client ID	Nd	Ni	Pb	Pr	Rb	Sb	Sc	Sm	Sn	Sr	Ta
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.06	0.7	0.18	0.014	0.11	0.04	1.1	0.026	0.16	0.6	0.007
16DCJF004 wpt46	41.98	37.6	11.8	12.232	50.73	0.08	5.0	6.013	1.09	168.1	0.343

**GEOSCIENCE LABORATORIES
CERTIFICATE OF ANALYSIS**



Client: Campbell
Geo Labs JOB#: 16-0137
Date: 11/16/2016
Method Code: IMC-100

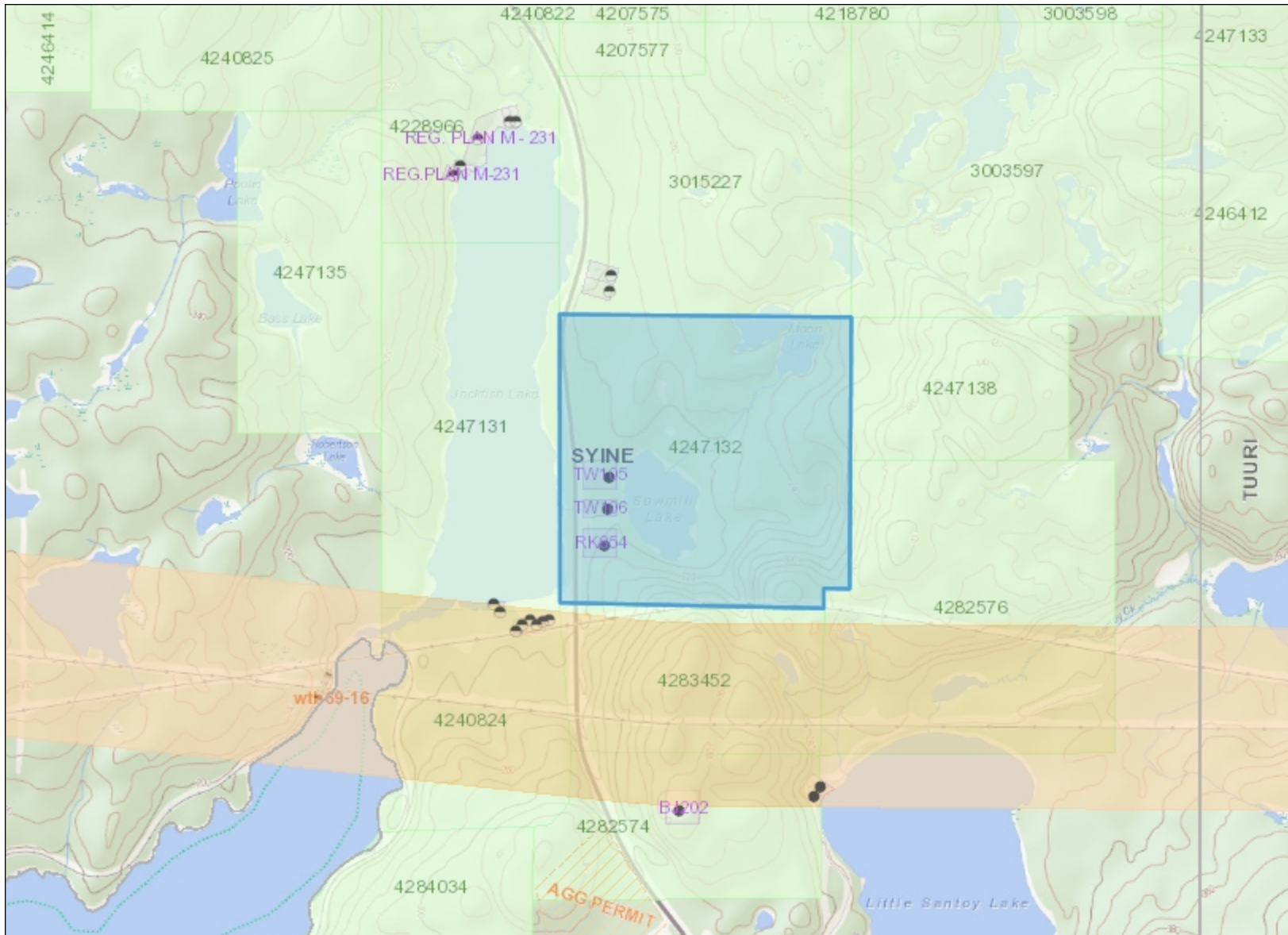
Client ID	Tb	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.0023	0.018	7	0.002	0.0019	0.011	0.8	0.05	0.05	0.009	1.8
16DCJF004 wpt46	0.3912	5.105	1771	0.226	0.1439	0.919	42.1	1.17	9.73	0.961	101

GEOSCIENCE LABORATORIES
CERTIFICATE OF ANALYSIS



Client: Campbell
Geo Labs JOB#: 16-0137
Date: 11/16/2016
Method Code: IMC-100

Client ID	Zr
Units	ppm
Detection Limit	6
16DCJF004 wpt46	138



Legend

Administration Boundaries

- Mining Divisions
- Resident Geologist District
- Townships and Areas
- UTM Grid
- Geographic Lot Fabric
- Other Federal Land

Mineral Tenure Grid

- OMTG Tenure Grid

Alienations

- Withdrawal
- Notice

Unpatented Claim

- Active
- Reconciled
- Pending

Disposition

- Disposition

Disposition Symbols

- Camp
- Disposition Unknown/Pending
- Freehold Patent Mining Rights Only
- Freehold Patent Surface Rights Only
- Freehold Patent Surface and Mining Rights
- Land Use Permit
- Leasehold Patent Mining Rights Only
- Leasehold Patent Surface Rights Only
- Leasehold Patent Surface and Mining Rights
- License of Occupation Mining Use Only
- License of Occupation Surface Use Only
- License of Occupation Surface and Mining Rights
- License of Occupation Uses Not Specified
- Order in Council
- Tower
- WPLA

Geology Layers

- AMIS Sites
- AMIS Features
- Drill Holes
- Mineral Occurrences



Projection: Web Mercator



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