Ontario

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Work Assessment Report

Prospect Lake Property

Coldwell

Thunder Bay District

Ontario

NTS 42 D/15

Assembled by: John Florek

Date: Sept 26, 2022

Table of Contents

Summary:

Previous work done by the author looked at the location and geological setting of an identified exhalative unit that occurs at the boundary between sediments and mafic volcanic on the Prospect Lake Property. This exhalative unit already demonstrated significant base metal occurrences along strike.

In 2019 & 2020, a hydromorphic soil sampling and grub prospecting program was developed to continue to understand the nature of the exhalative horizon crossing the property and expand on its understanding.

The prospecting was two-fold: Follow up on interesting rock geochemistry and explore these anomalies by using groundwater and soil as a transport mechanism to identify areas of more rigorous follow-up. Examine rock samples along the western portion of the property that might indicate substantial mineralization.

A continued detailed follow up sampling program was established in 2022 by the author. This is the basis for this report.

This sampling involved using a hand auger to collect B-Horizon soils and/or seep samples at varying depths, usually around 0.5 meters, depending on soil development and availability of material. A total of 11 soil samples were collected and one rock sample for analysis. A total of about 20 km's was traversed, by both foot and boat, for ingress and egress due to the remote location. A table of the GPS location of these samples is in Appendix C.

In addition to this prospecting, some re-establishment of trails for emergency purposes was done since area is very rough and remote. Some work physically locating historical claim geophysical lines by flagging or GPS for future reference was also done.

Introduction:

John Florek has 100% interest in the Prospect Lake Property located in Coldwell Area of the Thunder Bay District, Ontario, within the Schreiber Greenstone Belt. The Property consists of Thirty-Six (32) claims (29 Single Claims and 3 Boundary Claim Units). **Table 1** and **Figure 1 and 2** show the location and claim numbers of the Prospect Lake Claim Group. 6 Boundary Claims were converted to Single Claims since last reporting due to online staking rules.

Project	Twshp	Claim Type	Claim Number	Units	Hectares
Prospect Lake	Tuuri	Single	120771	1	16
	Tuuri	Single	122888	1	16
	Tuuri	Single	148210	1	16
	Tuuri	Single	165958	1	16
	Tuuri	Single	177978	1	16
	Tuuri	Single	177979	1	16
	Tuuri	Single	178837	1	16

	Tuuri	Single	184757	1	16
	Tuuri	Single	198427	1	16
	Tuuri	Single	224530	1	16
	Tuuri	Single	244726	1	16
	Tuuri	Single	244727	1	16
	Tuuri	Single	245526	1	16
	Tuuri	Single	251572	1	16
	Tuuri	Single	265101	1	16
	Tuuri	Single	280580	1	16
	Tuuri	Single	282771	1	16
	Tuuri	Single	282772	1	16
	Tuuri	Single	289582	1	16
	Tuuri	Single	289583	1	16
	Tuuri	Single	299265	1	16
	Tuuri	Single	300814	1	16
	Tuuri	Single	301649	1	16
	Tuuri	Single	301648	1	16
	Tuuri	Single	340452	1	16
	Tuuri	Single	536258	1	16
	Tuuri	Single	536259	1	16
	Tuuri	Single	536260	1	16
	Tuuri	Single	536261	1	16
	Tuuri	Boundary	244725	1	16
	Tuuri	Boundary	244728	1	16
	Tuuri	Boundary	317444	1	16

Table 1. Claim Group Numbers

The Prospect Lake property is located 6.5 kilometres north of the TransCanada Highway, between Marathon and Terrance Bay, Ontario. The property is accessible by ATV trail, canoe/boat, and forest trail to the southeastern area of claim 244725. All of the claim area is very remote and most of the areas are only accessible by walking through the boreal forest.

Regional Geology

The property occurs within the Wawa Subprovince of the Superior Province. It is within the late Archean Schreiber-Hemlo greenstone belt, i.e., 2.80-2.68 Ga. It is composed of supracrustal lithotectonic assemblages of ultramafic to tholeiitic basalt ocean plateau sequences, tholeiitic to calc-alkaline volcanic arc sequences, and siliciclastic turbidites, collectively intruded by arc granitoids (Polet et.al. 1998.)

Property Geology

The property lies along the north limb of a regional antiform, which is located in the Archean Schreiber portion of the greenstone belt. Mafic and Intermediate volcanics are overlain by chert, shale, sulphide iron formation, and related sedimentary rocks. The belt consists of variably metamorphosed metavolcanic and metasedimentary units. **Figure 3 and 4** shows the property and claim group geology; taken from Walker 1967 and the locations of samples collected in 2022 in relation to the geology.

Historical Work Performed

Several previous companies have worked the property and the information is contained in the assessment files located at the MNDM. Brief synopses below of work performed on these properties are contained in these reports. A lot of the reports describe more regional surveys over the general area, but the list below is confined to the claims in this report.

1981: Gulf?

1983: Coronet Resources: Aerodat Ltd airborne geophysical surveys, geological survey, geochemical survey (42D15SW0082,70).

1983: Teck Exploration: Geophysics (42D15SW0090)

1986: Lionel Martin: Linecutting, Trenching, Geochemistry, Geological Mapping, Geochemistry, Geophysics, and Diamond Drilling (42D15SW0061)

1986-1987: Eldor Resources (optioned from Cunningham): Diamond Drilling, Soil Sampling, Lithogeochemistry (42D15SW0064, 56_b, 58)

1989: Cameco / Zenmac Zinc Ltd: Diamond Drilling (42D15SW0054,56)

1990: Cunningham: Whole Rock Analysis (42D15SW0051), ***references Gulf work?***

2005: Phoenix Matachewan Mines: Lithogeochemistry, Airborne Magnetics, VTEM (42D15SW0061, 2025, 20003043)

2006-2008: Galahad Minerals: Drilling

2012: Wayne Richards: Prospecting and bedrock sampling (20010244)

2015: John Florek: Prospecting, Mapping, Line cutting

2016: John Florek: Soil Sampling (multielement), Rock Sampling(XRF), Linecutting, Prospecting.

2017: John Florek: Prospecting Claim 4240826

2019: John Florek: Soil Geochemistry, Prospecting Claims 536258, 301648, and 265101

2020: John Florek: Soil Geochemistry, Prospecting Claims 301648, 265101, 122888, and 340452

2022: John Florek: Soil Geochemistry, Prospecting Claims 536259 and 536260

Work Program

The main goal was to prospect and to assess locations of possible VMS potential associated with exhalitive rocks which occur throughout the property. Claim 536259 and 536260 was the focus, due to the exhalative unit trending westward onto these claims. Elevated gold and historical sulphide occurrences are associated with this exhalative unit.

An extension of a soil sampling program, looking for depressions in the terrain, was continue westward from previous sampling. These depressions would be focal points for groundwater movement that would have been in contact with upslope unexposed bedrock. This would allow examination and potential of a particular segment of the known exhalative horizon that is the focus of the program.

This exhalative horizon is known to be composed of chert, iron oxide and sulphide facies iron formation, and locally intercalated graphitic schists. This horizon has significant untested strike length and is one of the most continuous and thickest exhalite horizons in the greenstone belt shown on Walker's (1953) geological map. The prospecting was done between known lithogeochemistry done by Phoenix Matachewan Mines, to hopefully identify new showings or unknown rock types. Lateral to this horizon, just off the claims is a diamond drillhole intercept that contained 8.6% Zn over 10 meters.

The segment of our exploration corresponds to an area of sodium depletion, manganese enrichment, elevated zinc, and strong EM conductors in the rocks. This is typical for positive indications for massive sulfides in the vicinity.

In addition to soil sampling, some trails were re-established for safety and a search was conducted to find old geophysical grids. This way they could be tied into the known GIS coordinates and provide good visuals in the field for future work when appending work to historical data.

Data Collected

Appendix B shows the field notes and pictures associated with the soil sampling and some outcrop samples discovered. There were numerous other outcrop occurrences, but due to remote location it was difficult to pack-out all material discovered with gear and safety equipment; only samples which seemed beneficial to the development of the property were carried out. **Appendix C** gives the assay results associated with these samples.

Table 2 shows the location of the 2022 collection sites sample with a description of what was acquired. In general, organic material, stream runoff sediment, and B-Horizon Soils show highly anomalous values of Zn for samples collect east of the 2022 work area, the 2022 work is an attempt to extend strike length (**Appendix C**).

Recommendations

The 2022 prospecting and geochemical collection revealed that a biogeochemical survey may be a better alternative in some areas, due to the rocky nature of the soils.

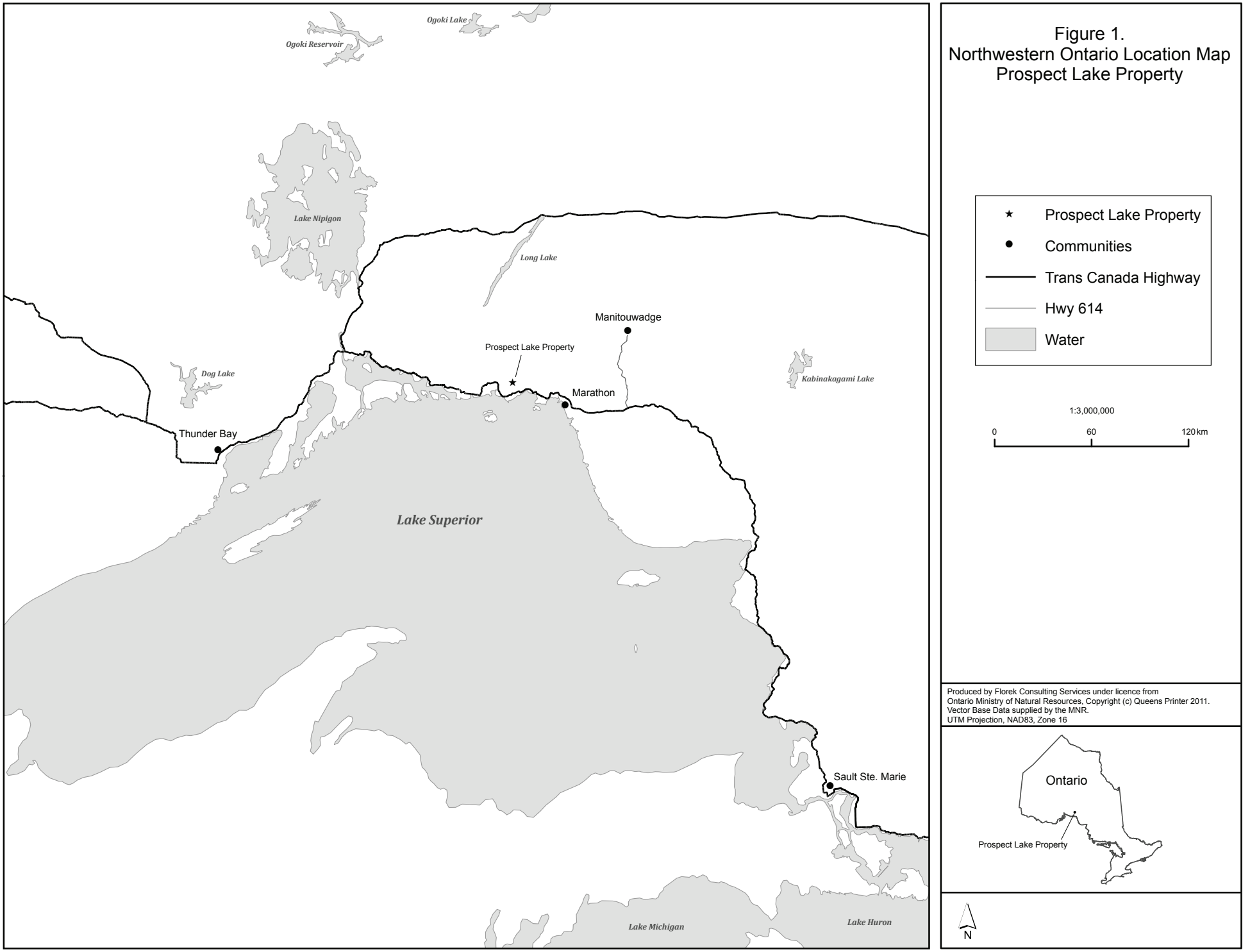
Further investigations of all the anomalies developed over the Prospect Lake Claim Group are warranted. It is suggest that the following be accomplished:

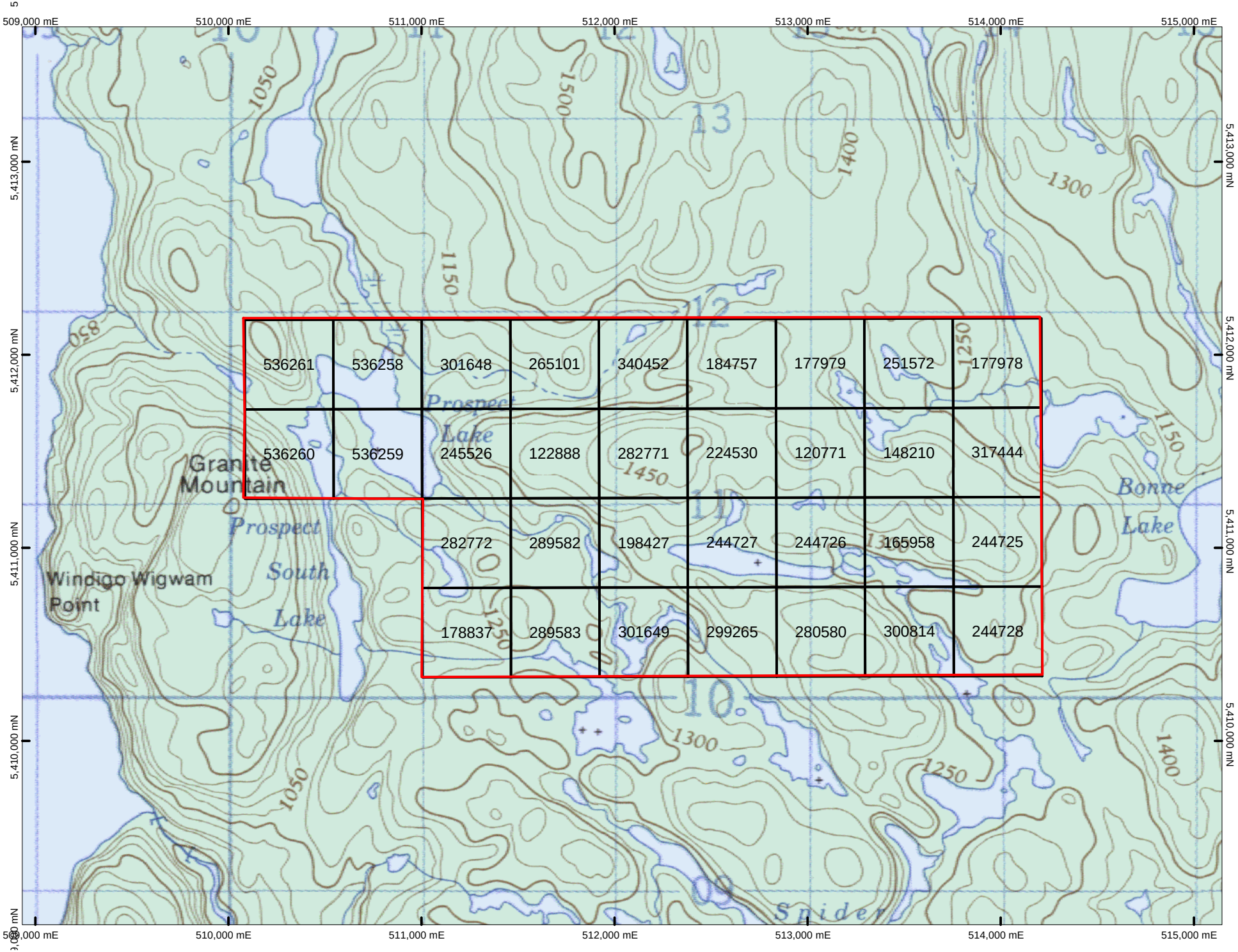
- Follow-up with more aggressive soil sampling and prospecting for mineralization.
- Stream sediment sampling that dissects the geology of interest.
- Biogeochemical (Spruce Bark) sampling over the entire project area.
- The reestablishment of overgrown trails to provide better access. Access is still extremely difficult.
- Drone magnetic survey, for better magnetic definition.
- Drilling campaign along this exhalative horizon.

References

Polat, R. Kerrich, and D.A. Wyman (1998). The late Archean Schreiber–Hemlo and White River–Dayohessarah greenstone belts, Superior Province: collages of oceanic plateaus, oceanic arcs, and subduction–accretion complexes. Tectonophysics, v. 289, Issue 4. pp. 295-326.

Walker, J.W.R., 1967, Geology of the Jackfish Middleton Area, Ontario Department of Mines, 41p.


Ogoki Lake
Ogoki Reservoir
Lake Nipigon
Long Lake
Manitouwadge
Prospect Lake Property
Dog Lake
Kabinakagami Lake
Marathon
Thunder Bay
Lake Superior
Sault Ste. Marie
Lake Michigan
Lake Huron
Figure 1.
Northwestern Ontario Location Map
Prospect Lake Property
Prospect Lake Property
Communities
Trans Canada Highway
Hwy 614
Water
1:3,000,000
0
60
120 km
Produced by Florek Consulting Services under licence from
Ontario Ministry of Natural Resources, Copyright (c) Queens Printer 2011.
Vector Base Data supplied by the MNR.
UTM Projection, NAD83, Zone 16
Ontario
Prospect Lake Property
N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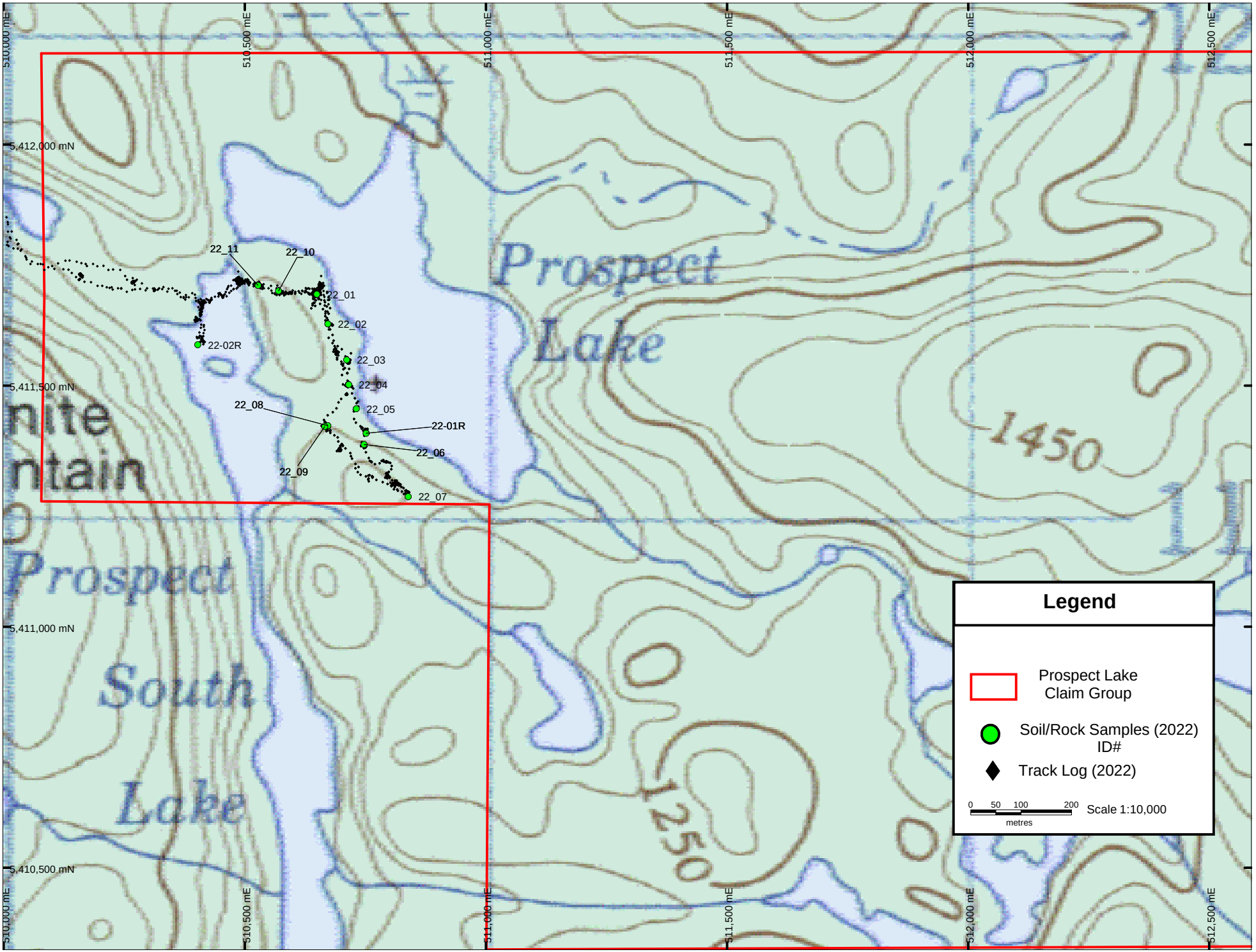
536259
245526
122888
282771
224530
120771
148210
317444
282772
289582
198427
244727
244726
165958
244725
178837
289583
301649
299265
280580
300814
244728
Granite Mountain
Prospect Lake
Prospect South Lake
Windigo Wigwam Point
Bonne Lake
Spider
1050
1500
1400
1300
1150
1250
1450
850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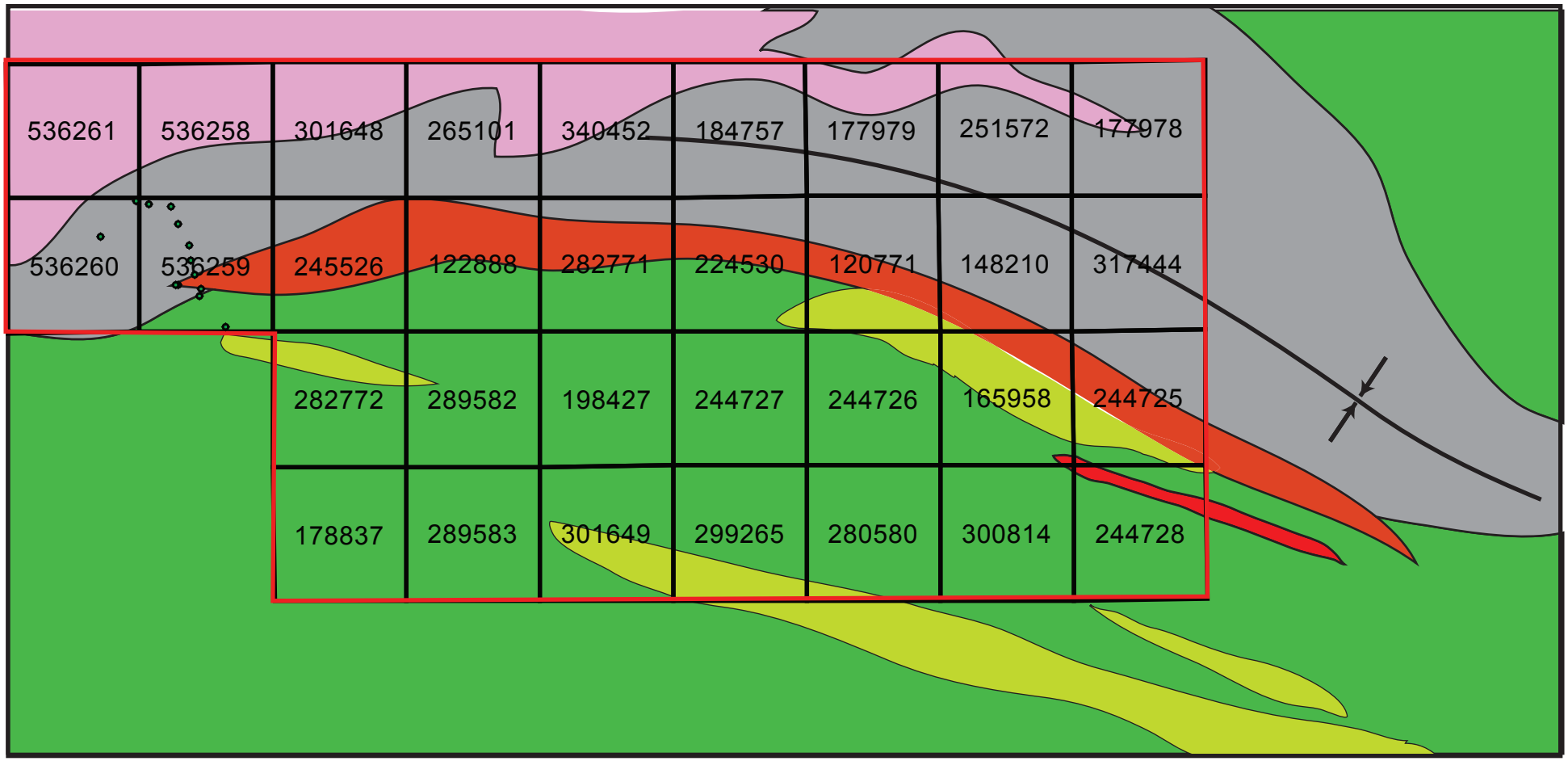
22_11
22_10
22_01
22_02
22-02R
22_03
22_04
22_08
22_05
22-01R
22_06
22_09
22_07
Prospect
Lake
1450
1250
Prospect
South
Lake
Legend
Prospect Lake
Claim Group
Soil/Rock Samples (2022)
ID#
Track Log (2022)
0 50 100 200
metres
Scale 1:10,000

Prospect Lake Geology



Prospect Lake Property
Geology

- Intrusive
- Exhalite
- Sediments
- FeFm
- Mafic Volcanics
- Diabase Dikes
- Intermediate Volcanics
- 2022 Soil and Rock Samples

N

Scale

0 1.0 m

1 Kilometer

Figure 4: Geology After J.W.R. Walker 1953

Statement of Qualifications

I, John C Florek, of 6 Radisson Crescent Marathon, ON P0T 2E0, do hereby certify:

I am a geologist

I am a graduate of Queens University, Kingston, ON with an M.Sc in Geology in 1998.

I am a graduate of University of Maine, Orono, ME USA with a B.Sc. in Geology in 1991.

I have practiced my profession for +30 years in the mining and exploration industry.

I am a member in good standing in the Association of Professional Geoscientists of Ontario.

I have knowledge of the work carried out in this report.

John C Florek, M.Sc., P.Geo.

January 17, 2023

Appendix A

Costs and Invoices

Prospect Lake Claims 2022

	MOB			DEMOB
	September-05-22	**September-06-22**	**September-07-22**	**September-08-22**
Boat and Motor	350	350	350	350
Mob/Demob (Pack/unpack, Field Map Generation, etc)	1000			1000
Prospecting (Sr. Geologist), Trail Establishment		1000	1000	
Truck	200.0	200.0	200.0	200.0
Perdiem	100	100	100	100
Geochemistry				480
Report Writing/Figures				7000
	1650	1650	1650	9130

Total Costs $14,080.00

Description	**Quanity**	**units**	**cost/unit**	**Total**	
Trail Establishment, Access Route (Emergency)	0.5	day	$1,000.00	$500.00	Work Costs
Sampling, Prospecting (P.Geo, M.Sc Geologist)	1.5	day	$1,000.00	$1,500.00	Work Costs
Geochemistry	12	each	$40.00	$480.00	Work Costs
Mob/Demob (Equipment, Emergency Shelter Setup)	2	LumpSum	$1,000.00	$2,000.00	Associated Costs
Report Writing	4	day	$1,000.00	$4,000.00	Associated Costs
Submittal	1	day	$1,000.00	$1,000.00	
Figures	2	day	$1,000.00	$2,000.00	Associated Costs
Boat and Motor	4	day	$350.00	$1,400.00	Transportation Costs
Truck Rental	4	km	$200.00	$800.00	Transportation Costs
Perdiem	4	day	$100.00	$400.00	Food and Lodging
			Total Costs	**$14,080.00**	

Electronic Assessment Categories

Work Costs	$2,480.00
Associated Costs	$9,000.00
Transportation Costs	$2,200.00
Food and Lodging	$400.00
Total Costs	**$14,080.00**

Apical Exploration

PO Box 1178
98 Peninsula Road
Marathon, Ontario P0T 2E0

Bill To:
John Florek
6 Radisson Crescent, PO Box 241
Marathon, ON P0T 2E0

Date: 15-Sep-22
Invoice: INV01_ProspectLK
Description: Exploration Services

Prospect Lake Claims

Description	Quanity	units	cost/unit	Total	
Trail Establishment, Access Route (Emergency)	0.5	day	$1,000.00	$500.00	Work Costs
Sampling, Prospecting (P.Geo, M.Sc Geologist)	1.5	day	$1,000.00	$1,500.00	Work Costs
Geochemistry & Shipping	12	Lump Sum	$40.00	$480.00	Work Costs
Mob/Demob (Equipment, Emergency Shelter Setup)	2	LumpSum	$1,000.00	$2,000.00	Associated Costs
Report Writing & Submittal	4	day	$1,000.00	$4,000.00	Associated Costs
Figures	3	day	$1,000.00	$3,000.00	Associated Costs
Boat and Motor	4	day	$350.00	$1,400.00	Transportation Costs
Truck Rental	4	day	$200.00	$800.00	Transportation Costs
Perdiem	4	day	$100.00	$400.00	Food and Lodging
			Total Amount	**$14,080.00**	
		84296 8174 RT0001	**HST**	**$1,830.40**	
			Total Amount	**$15,910.40**	

Appendix B

Photos and Field Notes

Prospect Lake 2022

Soil Sample Collection

B-Horizon Soils

Soil Sample 22-01

Soil Sample 22-07

Prospect Lake 2022

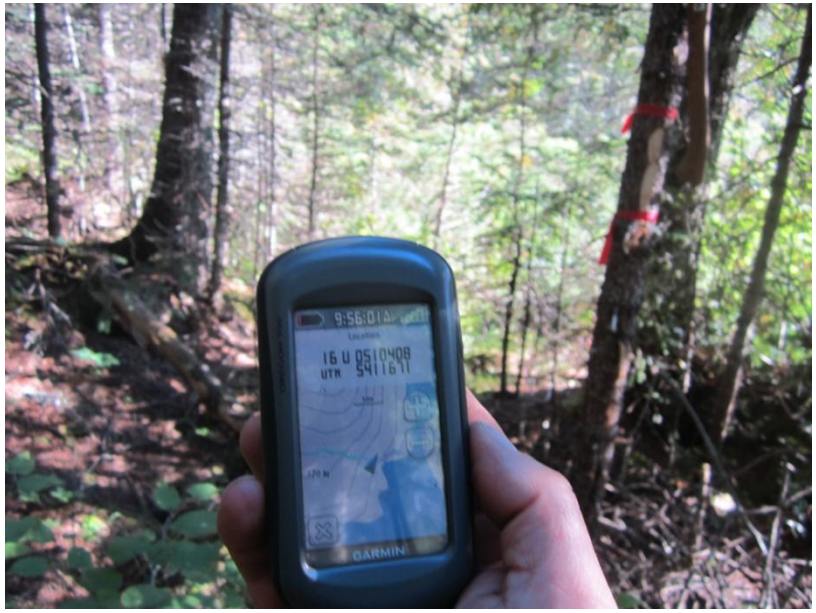
Bedrock Samples

Rock Sample 22-01

Rock Sample 22-02

Rock Sample 22-03

Access Trail Cleanup 2022

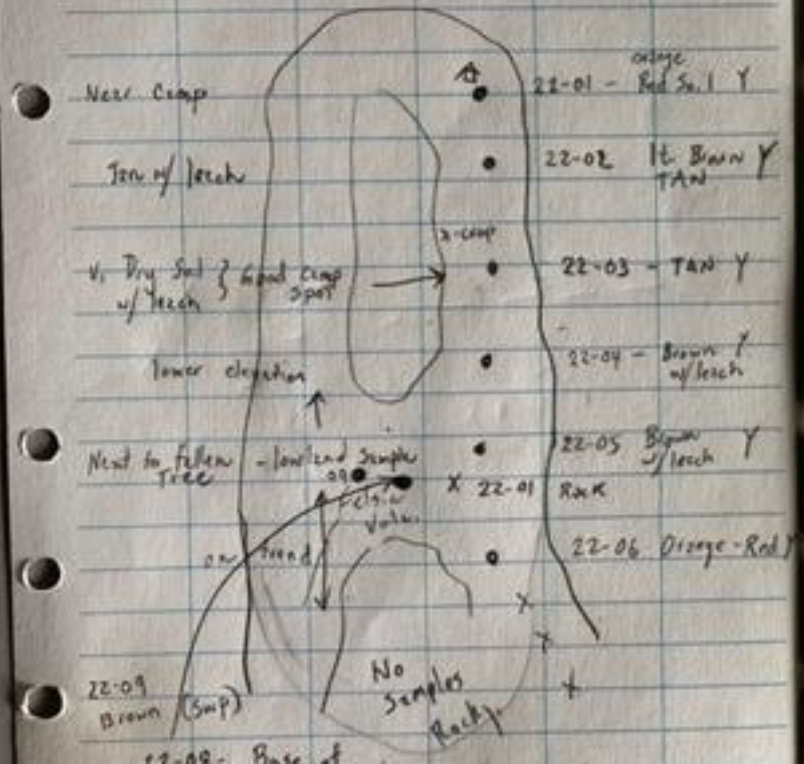


Base Camp 2022

John Flocer
Prospect Lake Project
Prospecting & Geochemical

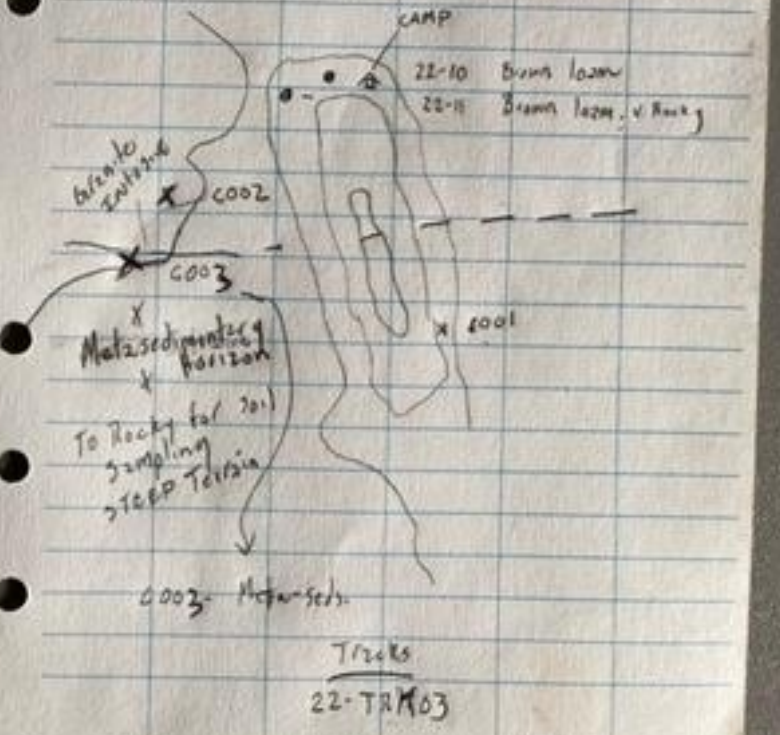
Sept. 6 2022
Weather: V. late start due to delay w/ extreme fog on Smoky Lake

Objective: Extend Exhalite Horizon Westward
Contour Sampling + Prospecting under Moss



John Flocer
Prospect Lake
Prospecting & Geochem
Objective: Extend Exhalite en (anomaly)
Contour Sampling + Prospecting under Moss

Sept 7 2022
Weather: Nice, Sunny
START 9:15 am
11:50 am
2 Bags ?



Tracks
22-TRK03

Zone 16

Sept 06

	m E	m N	
22-01	510,650	5,411,689	1:58 pm
22-02	510,672	5,411,628	
22-03	510,712	5,411,553	
22-04	510,716	5,411,502	
22-05	510,731	5,411,452	
22-06	510,747	5,411,378	
22-07	510,839	5,411,270	
22-08	510,672	5,411,417	
22-09	510,666	5,411,415	
22-10			
22-01 Rock	510,751	5,411,401	

2022-01 - 47km (Need to delete first portion

22-TRK02 - 2.2km

Appendix C

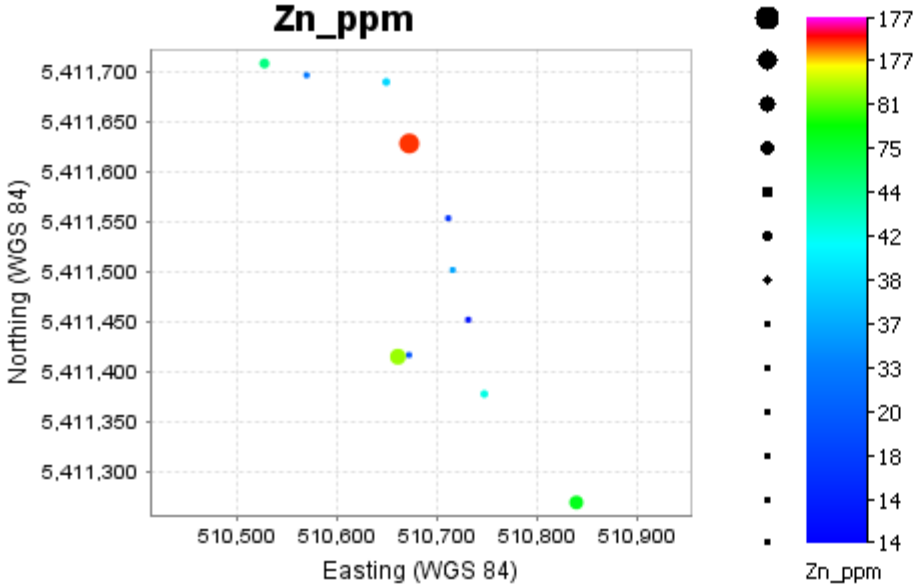
Geochemical Results

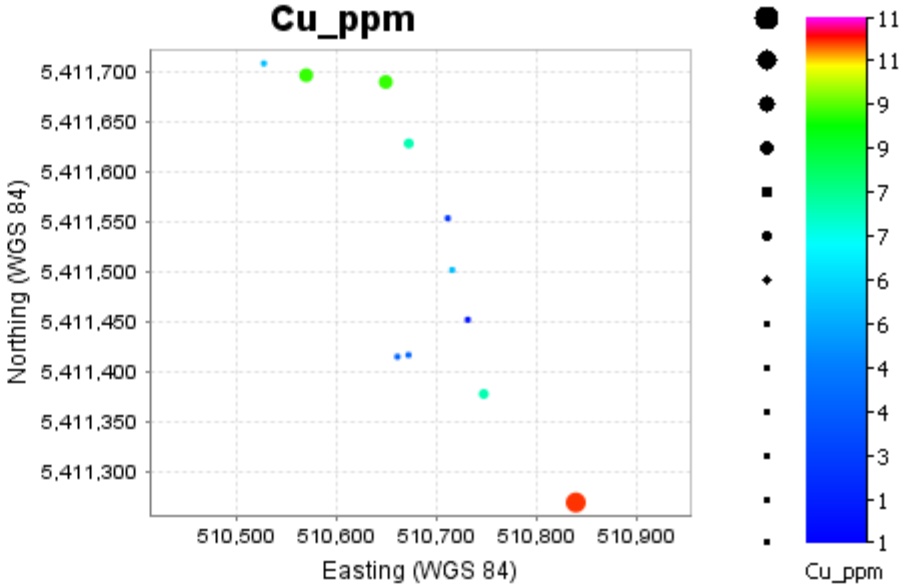
Table 2

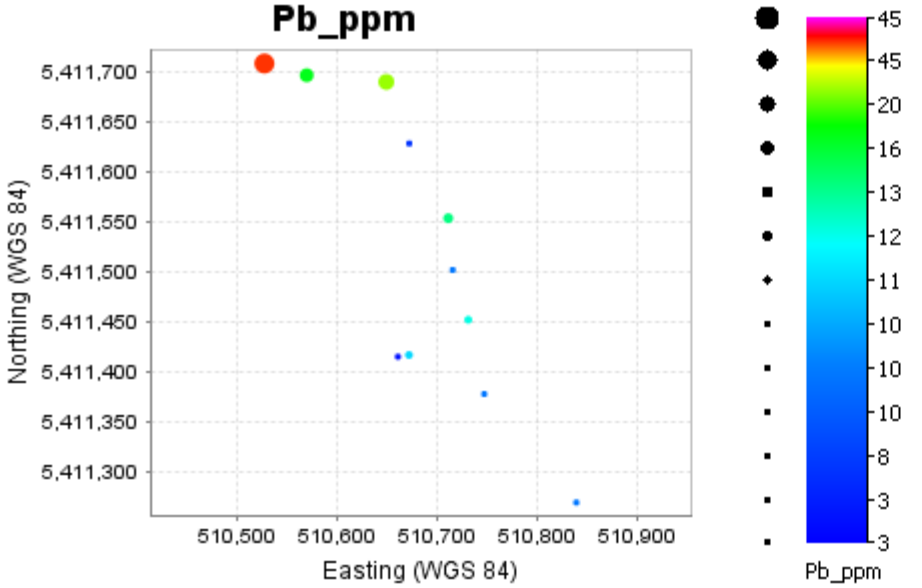
Soil and Rock Sample Locations and Descriptions

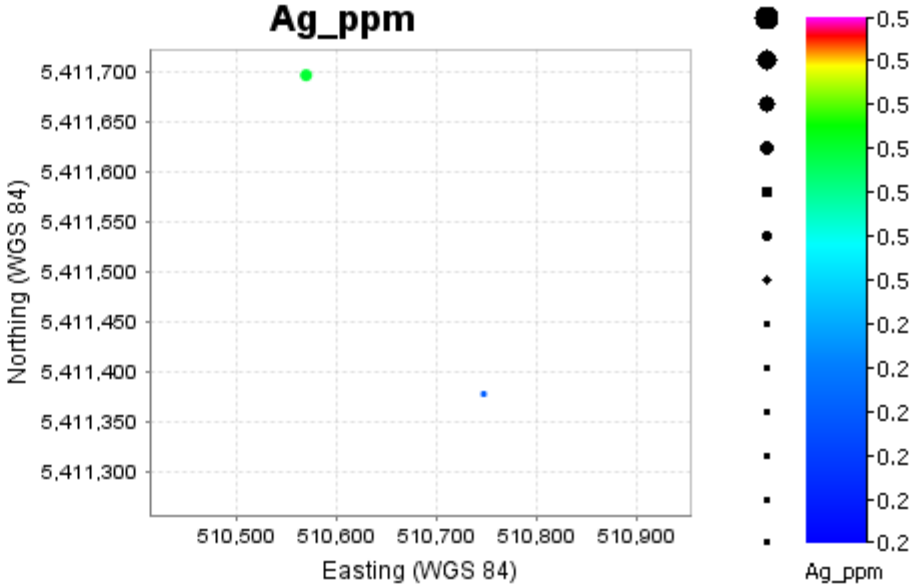
Sample Name	Latitude	Longitude	Easting (WGS 84)	Northing (WGS 84)	Altitude (m)	Assay Description
22_01	48.858079	-86.854813	510649.5	5411689.5	312.5	Soil
22_02	48.857525	-86.854501	510672.5	5411627.9	313.4	Soil
22_03	48.856854	-86.853972	510711.4	5411553.4	317.4	Soil
22_04	48.85639	-86.853915	510715.7	5411501.8	312.7	Soil
22_05	48.855942	-86.853704	510731.3	5411452.1	311.6	Soil
22_06	48.855275	-86.853489	510747.2	5411377.9	318.4	Soil
22_07	48.8543	-86.852239	510839.1	5411269.7	342.7	Soil
22_08	48.855626	-86.85451	510672.2	5411416.8	319.3	Soil
22_09	48.855612	-86.854594	510661.1	5411415.2	316.2	Soil
22_10	48.85814	-86.855897	510570	5411696.1	305.8	Soil
22_11	48.858247	-86.856471	510527.8	5411707.9	302.9	Soil
22-01R	48.855485	-86.853429	510751.6	5411401.3	315.1	Outcrop
22-02R	48.857141	-86.858183	510402.5	5411584.7	298.1	Outcrop (No Assay)

Geochemical Analysis
Prospect Lake 2022 Soil Sample Survey

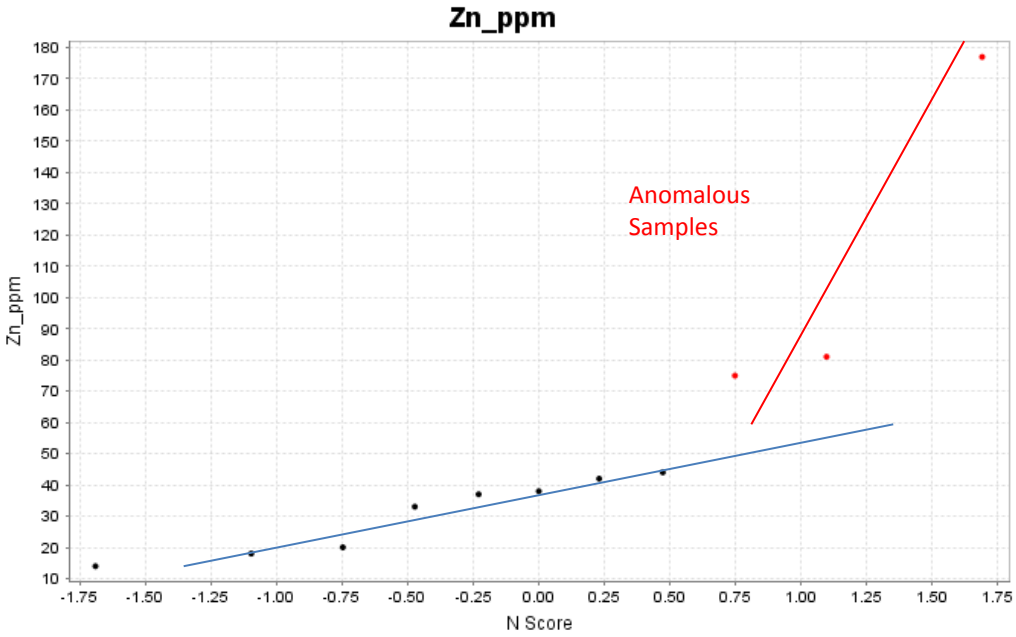


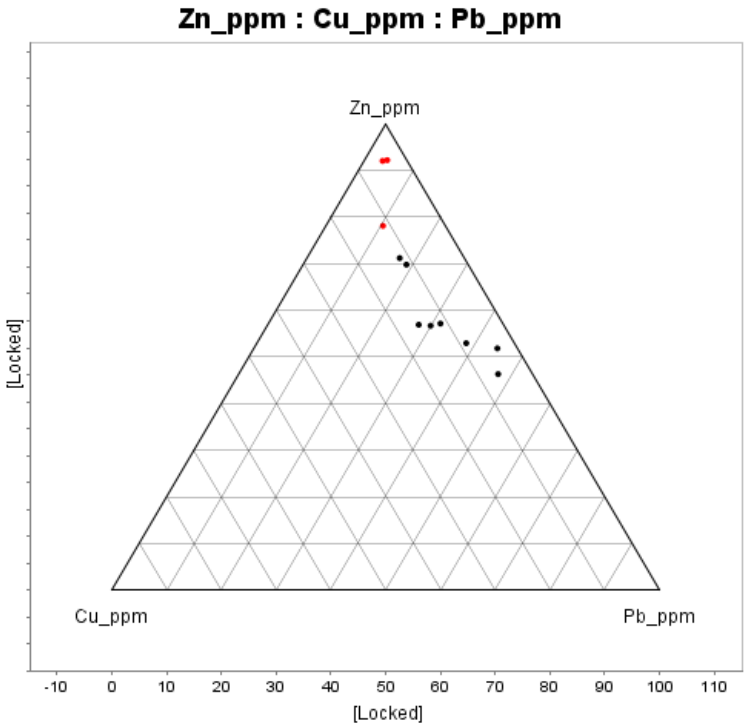






Geochemical Analysis
Prospect Lake 2022 Soil Sample Survey





Request for Analysis

Activation Laboratories Ltd.

41 Bittern Street • Ancaster, ON • L9G 4V5 • Tel: (905) 648-9611 • Fax: (905) 648-9613 • Toll Free: 1-888-ACTLABS • E-mail: samplereception@actlabs.com

Carrier:	Waybill #:	# of Packages: 1	# of Samples: 12

FOR OFFICE USE ONLY Date Received: Time Received: Initial:

Batch ID: Invoice #:

Priority: ☒ Normal (may vary depending on package and time of year - please enquire)
☐ RUSH (required by) _____
(Note: subject to surcharge, method dependent)

Confirmation of Sample Receipt: ☒ Yes ☐ No
By: E-mail: FLOREK 27 @ YAHOO.COM
or Fax: _____

Client Info: Client Batch #: _____ Shipment #: _____

Quote #, PO #, Proforma #: _____ Project: _____

Company: Apical Exploration
Attn: JOHN FLOREK
Address: _____

Phone : 807 228 3531 Fax: _____
E-mail: FLOREK27@YAHOO.COM

Additional Report to: _____
Company: _____
Address: _____

Phone : _____ Fax: _____
E-mail: _____

Method of Payment: For all clients, unless credit has been established, a suitable form of payment must be received before results will be released.

☐ Payment is included (make cheque or bank draft payable to Activation Laboratories Ltd.)
☐ Charge to NEW Credit Card (details are provided on this form in the box to the right).
☐ Charge to Credit Card on file with Actlabs.
☐ Credit has been established with Activation Laboratories Ltd. (refer to Actlabs' Credit Application Form). Payment will be issued after invoice has been received.

☒ Visa ☐ MasterCard ☐ AMEX
Number: 4538 0325 7331 8017
Expiry Date: 06/28
CVV: 224
Name: JOHN FLOREK
Signature: John Florek

Reporting & Invoicing Instructions: Reports and invoices are *emailed* unless otherwise indicated.

Invoice: ☐ Hard copy ☐ 1st Address ☐ 2nd Address
Report: ☐ Hard copy ☐ 1st Address ☐ 2nd Address

☐ Retain credit card information to charge this work order and all future work orders.

Storage:

Please Note: License required for the return of radioactive material - cost per shipment is $200.00 + shipping. Under CFIA regulations, soil, sediment and vegetation samples from outside Canada require incineration prior to disposal; additional charges will apply.

	Return		Dispose ($0.45/sample)	Store
Rejects	☐ After Analysis	☐ After 60 days	☐ After 60 days	☐ $0.30/sample/month
Pulps	☐ After Analysis	☐ After 90 days	☐ After 90 days	☐ $0.15/sample/month
Sieve	☐ After Analysis	☐ After 3 months	☐ After 3 months	☐ $0.20/sample/month
Irrads	☐ After Analysis	☐ After 30 days	☐ After 30 days	☐ $0.20/sample/month

Return Samples To:
Company: N/A
Address: _____

Attn : _____ Phone: _____

Method of Sample Return:
☐ At cost + 15% (client will be invoiced)
☐ Our Carrier Account:
Carrier Name: N/A
Account #: _____
Phone: _____

Special Instructions/Comments: _____

For samples requiring Geochronology and/or Isotopic Geochemistry, please be sure to include the following information:

- Rock type: _____
- Minerals to be separated, specify: _____
- Estimated age: _____

Authorized Signature: _____

FOR FASTER TURNAROUND TIME, EMAIL A COPY OF YOUR SUBMITTAL FORM TO **samplereception@actlabs.com**

Client Name: APICAL Exploration (ATTN: JOHN FLOREK)

Sample Preparation Charges: ☐ Contact me if sample preparation is required. ☒ I authorize any required sample preparation charges.

# of samples	Sample Numbers (list all or range)	Sample Type (see below)	Prep. Code (if required)	Analysis Code / Elements
11	22-01 to 22-11	Soil-S	S1	1E3
1	22-01 R	Rock-R	RX1	UT-6M 4-ACID

Sample Type:
R – Rock; CR – Crushed Rock; DC – Drill Core; H – Humus; S – Soil; V – Vegetation; B – Brine; MW – Marine Water; W – Water; C – Ore Conc.; O – Other (specify); P – Pulp; LS – Lake Sediment; SS – Stream Sediment; HMC – Heavy Minerals

Please copy page for additional sample lists.

Quality Analysis ... *Innovative Technologies*

Report No.: **A22-14041**
Report Date: **04-Nov-22**
Date Submitted: **29-Sep-22**
Your Reference:

John Florek

ATTN: John Florek

CERTIFICATE OF ANALYSIS

12 Soil samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1E3-Tbay	QOP AquaGeo (Aqua Regia ICPOES)	2022-10-21 08:23:04

REPORT **A22-14041**

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

SCC Accredited LAB Accrédité CCN TM

LabID: 673

CERTIFIED BY:

Mark Vandergeest
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: **A22-14041**
Report Date: **04-Nov-22**
Date Submitted: **29-Sep-22**
Your Reference:

John Florek

ATTN: John Florek

CERTIFICATE OF ANALYSIS

12 Soil samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
UT-6M	QOP Total/QOP Ultratrace- 4acid Digest (Total Digestion ICPOES/ICPMS)	2022-10-28 15:32:19

REPORT **A22-14041**

Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

SCC Accredited LAB Accrédité CCN TM

LabID: 266

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Mark Vandergeest
Quality Control Coordinator

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Lower Limit	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
22-01	< 0.2	0.6	9	116	1	10	20	38	5.67	< 2	32	51	2.7	< 2	0.14	3	56	3.23	< 10	< 1	0.04	38	0.19
22-02	< 0.2	< 0.5	7	207	1	9	8	177	1.08	< 2	37	36	< 0.5	< 2	0.23	4	23	1.28	< 10	< 1	0.06	14	0.29
22-03	< 0.2	< 0.5	3	51	< 1	1	13	18	0.80	< 2	28	26	< 0.5	< 2	0.07	< 1	15	1.00	< 10	< 1	0.04	12	0.08
22-04	< 0.2	< 0.5	6	107	< 1	9	10	37	1.74	< 2	32	38	0.5	< 2	0.15	4	27	1.67	< 10	< 1	0.05	14	0.18
22-05	< 0.2	< 0.5	1	76	< 1	5	12	14	0.84	2	33	20	< 0.5	< 2	0.15	2	22	0.91	10	1	0.05	10	0.18
22-06	0.2	< 0.5	7	197	< 1	18	10	42	2.99	3	33	45	0.8	< 2	0.18	7	38	2.18	< 10	< 1	0.05	11	0.26
22-07	< 0.2	< 0.5	11	242	2	13	10	75	4.15	< 2	36	25	1.0	< 2	0.15	6	56	3.75	< 10	< 1	0.05	12	0.35
22-08	< 0.2	< 0.5	4	124	1	7	11	20	0.91	4	29	28	< 0.5	< 2	0.10	3	40	3.95	10	< 1	0.04	< 10	0.15
22-09	< 0.2	< 0.5	4	126	< 1	8	3	81	0.94	< 2	35	45	< 0.5	< 2	0.24	3	21	0.99	< 10	< 1	0.05	12	0.22
22-10	0.5	< 0.5	9	138	1	9	16	33	1.19	6	28	44	< 0.5	< 2	0.11	5	29	3.43	10	< 1	0.05	13	0.20
22-11	< 0.2	< 0.5	6	106	11	8	45	44	1.00	3	34	34	0.6	< 2	0.18	3	25	2.09	10	< 1	0.05	18	0.26
22-01 R																							

Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca	Cd
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
Lower Limit	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS
22-01	0.015	0.100	0.08	2	4	13	0.08	< 20	< 1	< 2	< 10	34	< 10	6	12								
22-02	0.015	0.018	< 0.01	< 2	2	21	0.12	< 20	< 1	< 2	< 10	32	< 10	3	3								
22-03	0.010	0.014	0.01	< 2	1	13	0.11	< 20	< 1	< 2	< 10	33	< 10	2	4								
22-04	0.015	0.024	0.01	< 2	3	15	0.14	< 20	4	< 2	< 10	42	< 10	3	4								
22-05	0.016	0.007	< 0.01	< 2	2	23	0.21	< 20	2	< 2	< 10	48	< 10	2	8								
22-06	0.016	0.043	0.04	< 2	3	13	0.10	< 20	2	< 2	< 10	34	< 10	3	3								
22-07	0.013	0.068	0.05	2	4	11	0.15	< 20	< 1	< 2	< 10	60	< 10	4	5								
22-08	0.011	0.032	0.02	< 2	2	13	0.27	< 20	3	< 2	< 10	123	< 10	2	7								
22-09	0.013	0.068	0.02	< 2	2	15	0.08	< 20	2	< 2	< 10	21	< 10	4	< 1								
22-10	0.013	0.042	0.03	< 2	2	17	0.19	< 20	5	< 2	< 10	64	< 10	3	6								
22-11	0.016	0.031	0.02	< 2	2	21	0.20	< 20	3	< 2	< 10	50	< 10	4	13								
22-01 R																0.13	6.88	0.6	140	1.72	0.14	0.81	0.04

Analyte Symbol	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	Re
Unit Symbol	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1	0.002
Method Code	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS
22-01																							
22-02																							
22-03																							
22-04																							
22-05																							
22-06																							
22-07																							
22-08																							
22-09																							
22-10																							
22-11																							
22-01 R	79.0	2.5	9	0.63	5.2	3.19	22.6	0.19	12.9	0.090	0.40	31.4	11.0	0.33	1190	0.85	3.97	14.5	2.6	470	3.0	17.4	0.003

Analyte Symbol	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1	0.1	0.1	2	0.5
Method Code	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS
22-01																	
22-02																	
22-03																	
22-04																	
22-05																	
22-06																	
22-07																	
22-08																	
22-09																	
22-10																	
22-11																	
22-01 R	< 0.01	< 0.05	7.8	< 1	3.4	130	0.79	< 0.05	3.94	0.250	0.05	1.1	6	0.4	57.4	29	> 500

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Lower Limit	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas	0.2	< 0.5	70	1120	< 1	23	101	124	6.87	240	32	767	1.0	< 2	0.12	14	79	5.69	20	1	0.98	< 10	0.38
GXR-6 Cert	1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609
GXR-6 Meas	0.3	< 0.5	70	1090	< 1	23	99	122	6.79	243	33	757	1.0	< 2	0.12	13	78	5.62	20	< 1	0.97	< 10	0.37
GXR-6 Cert	1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609
GXR-6 Meas	0.2	< 0.5	71	1080	1	23	98	127	7.09	240	34	741	1.0	< 2	0.12	14	80	5.91	20	2	1.00	< 10	0.39
GXR-6 Cert	1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609
OREAS 101b (4 Acid) Meas																							
OREAS 101b (4 Acid) Cert																							
OREAS 101b (4 Acid) Meas																							
OREAS 101b (4 Acid) Cert																							
OREAS 98 (4 Acid) Meas																							
OREAS 98 (4 Acid) Cert																							
OREAS 13b (4-Acid) Meas																							
OREAS 13b (4-Acid) Cert																							
OREAS 13b (4-Acid) Meas																							
OREAS 13b (4-Acid) Cert																							
OREAS 903 (4 Acid) Meas																							
OREAS 903 (4 Acid) Cert																							
OREAS 903 (4 Acid) Meas																							
OREAS 903 (4 Acid) Cert																							
OREAS 45d (4-Acid) Meas																							
OREAS 45d (4-Acid) Cert																							
OREAS 45d (4-Acid) Meas																							
OREAS 45d (4-Acid) Cert																							
OREAS 922 (AQUA REGIA) Meas	0.7	< 0.5	2290	798	< 1	34	62	253	2.78	3		73	0.8	7	0.36	20	43	5.25	< 10		0.38	33	1.30
OREAS 922 (AQUA REGIA) Cert	0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62		0.376	32.5	1.33
OREAS 922 (AQUA REGIA) Meas	1.6	< 0.5	2310	798	< 1	35	62	251	2.80	5		76	0.8	7	0.37	20	44	5.26	< 10		0.39	34	1.30
OREAS 922 (AQUA REGIA) Cert	0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62		0.376	32.5	1.33
OREAS 922 (AQUA REGIA) Meas	0.6	< 0.5	2260	775	< 1	33	62	267	2.83	5		71	0.8	10	0.36	20	47	5.29	< 10		0.39	34	1.30
OREAS 922	0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62		0.376	32.5	1.33

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Lower Limit	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
(AQUA REGIA) Cert																							
OREAS 923 (AQUA REGIA) Meas	1.6	< 0.5	4470	904	< 1	31	85	335	2.79	7		59	0.7	13	0.37	22	41	5.95	< 10		0.32	31	1.38
OREAS 923 (AQUA REGIA) Cert	1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01		0.322	30.0	1.43
OREAS 923 (AQUA REGIA) Meas	1.4	< 0.5	4640	932	< 1	34	93	340	2.88	5		63	0.8	14	0.38	22	42	6.17	< 10		0.34	32	1.42
OREAS 923 (AQUA REGIA) Cert	1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01		0.322	30.0	1.43
OREAS 923 (AQUA REGIA) Meas	4.1	< 0.5	4400	860	< 1	32	86	326	2.80	5		55	0.7	14	0.35	22	41	5.93	< 10		0.32	31	1.37
OREAS 923 (AQUA REGIA) Cert	1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01		0.322	30.0	1.43
Oreas 96 (Aqua Regia) Meas	11.0		> 10000				92	408						9		49							
Oreas 96 (Aqua Regia) Cert	11.50		39100.00				100	448						27.9		49.2							
Oreas 96 (Aqua Regia) Meas	11.1		> 10000				94	408						3		49							
Oreas 96 (Aqua Regia) Cert	11.50		39100.00				100	448						27.9		49.2							
Oreas 96 (Aqua Regia) Meas	11.0		> 10000				88	414						16		48							
Oreas 96 (Aqua Regia) Cert	11.50		39100.00				100	448						27.9		49.2							
OREAS 96 (4 Acid) Meas																							
OREAS 96 (4 Acid) Cert																							
OREAS 96 (4 Acid) Meas																							
OREAS 96 (4 Acid) Cert																							
Oreas 77b (4 Acid) Meas																							
Oreas 77b (4 Acid) Cert																							
Oreas 77b (4 Acid) Meas																							
Oreas 77b (4 Acid) Cert																							
Oreas 72b (4 Acid) Meas																							
Oreas 72b (4 Acid) Cert																							
Oreas 72b (4 Acid) Meas																							
Oreas 72b (4 Acid) Cert																							
OREAS 45f (Aqua Regia) Meas			364	180	1	237	8	25	6.75			153	1.2	< 2	0.07	41	359	14.1	20	2	0.09	< 10	0.17
OREAS 45f (Aqua			336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2	341	13.7	20.3	0.0310	0.0820	10.7	0.152

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Lower Limit	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Regia) Cert																							
OREAS 45f (Aqua Regia) Meas			363	178	< 1	232	9	25	6.80			151	1.2	2	0.07	40	352	14.1	20	< 1	0.09	< 10	0.17
OREAS 45f (Aqua Regia) Cert			336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2	341	13.7	20.3	0.0310	0.0820	10.7	0.152
OREAS 45f (Aqua Regia) Meas			363	168	< 1	232	7	25	6.82			142	1.2	< 2	0.06	40	357	14.4	20	< 1	0.09	< 10	0.17
OREAS 45f (Aqua Regia) Cert			336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2	341	13.7	20.3	0.0310	0.0820	10.7	0.152
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
Oreas 521 (4 Acid) Meas																							
Oreas 521 (4 Acid) Cert																							
Oreas 521 (4 Acid) Meas																							
Oreas 521 (4 Acid) Cert																							
OREAS 70b (4 Acid) Meas																							
OREAS 70b (4 Acid) Cert																							
Oreas 620 (Aqua Regia) Meas	41.4	162	1890	458	8	16	> 5000	> 10000	1.23	51		< 10	0.7	< 2	1.27	14	17	2.69	< 10	2	0.28	25	0.27
Oreas 620 (Aqua Regia) Cert	38.4	161	1750	414	9	14	7740	31200	1.12	47		450	0.6	2	1.29	12	17	2.58	6	2	0.31	25	0.27
Oreas 620 (Aqua Regia) Meas	40.9	163	2020	454	7	13	> 5000	> 10000	1.22	50		< 10	0.7	< 2	1.26	14	17	2.69	< 10	2	0.28	25	0.27
Oreas 620 (Aqua Regia) Cert	38.4	161	1750	414	9	14	7740	31200	1.12	47		450	0.6	2	1.29	12	17	2.58	6	2	0.31	25	0.27
Oreas 620 (Aqua Regia) Meas	41.3	163	1800	448	8	12	> 5000	> 10000	1.26	50		< 10	0.7	3	1.24	14	18	2.69	< 10	2	0.28	24	0.27
Oreas 620 (Aqua Regia) Cert	38.4	161	1750	414	9	14	7740	31200	1.12	47		450	0.6	2	1.29	12	17	2.58	6	2	0.31	25	0.27
OREAS 620 (4 Acid) Meas																							
OREAS 620 (4 Acid) Cert																							
OREAS 753 (4																							

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Lower Limit	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Acid) Meas																							
OREAS 753 (4 Acid) Cert																							
Method Blank	< 0.2	< 0.5	< 1	< 5	< 1	2	< 2	< 2	< 0.01	< 2	28	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01
Method Blank	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	30	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01
Method Blank	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	43	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01
Method Blank	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	33	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01
Method Blank	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	46	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01
Method Blank	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	43	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca	Cd
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
Lower Limit	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS
GXR-6 Meas	0.059	0.035	0.01	5	21	29		< 20	< 1	< 2	< 10	164	< 10	4	7								
GXR-6 Cert	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110								
GXR-6 Meas	0.058	0.034	0.01	4	20	29		< 20	< 1	< 2	< 10	163	< 10	4	9								
GXR-6 Cert	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110								
GXR-6 Meas	0.060	0.035	0.01	3	19	29		< 20	< 1	< 2	< 10	162	< 10	4	6								
GXR-6 Cert	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110								
OREAS 101b (4 Acid) Meas																							
OREAS 101b (4 Acid) Cert																							
OREAS 101b (4 Acid) Meas																							
OREAS 101b (4 Acid) Cert																							
OREAS 98 (4 Acid) Meas																41.8					88.5		
OREAS 98 (4 Acid) Cert																45.1					97.2		
OREAS 13b (4-Acid) Meas																0.95		61.4					
OREAS 13b (4-Acid) Cert																0.86		57					
OREAS 13b (4-Acid) Meas																							
OREAS 13b (4-Acid) Cert																							
OREAS 903 (4 Acid) Meas																	6.11		190			0.67	
OREAS 903 (4 Acid) Cert																	5.89		197			0.625	
OREAS 903 (4 Acid) Meas																	6.31		220			0.68	
OREAS 903 (4 Acid) Cert																	5.89		197			0.625	
OREAS 45d (4-Acid) Meas																	8.13		190			0.19	
OREAS 45d (4-Acid) Cert																	8.150		183.0			0.185	
OREAS 45d (4-Acid) Meas																	8.10		190			0.19	
OREAS 45d (4-Acid) Cert																	8.150		183.0			0.185	
OREAS 922 (AQUA REGIA) Meas	0.019	0.064	0.37	3	3	16		< 20		< 2	< 10	32	< 10	15	3								
OREAS 922 (AQUA REGIA) Cert	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3								
OREAS 922 (AQUA REGIA) Meas	0.019	0.064	0.38	3	4	16		< 20		< 2	< 10	32	< 10	16	6								
OREAS 922 (AQUA REGIA) Cert	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3								
OREAS 922 (AQUA REGIA) Meas	0.020	0.064	0.37	5	3	16		< 20		< 2	< 10	32	< 10	16	13								
OREAS 922	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3								

Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca	Cd
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
Lower Limit	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS
(AQUA REGIA) Cert																							
OREAS 923 (AQUA REGIA) Meas		0.061	0.68	5	3	14		< 20		< 2	< 10	31	< 10	14	6								
OREAS 923 (AQUA REGIA) Cert		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5								
OREAS 923 (AQUA REGIA) Meas		0.062	0.70	3	4	14		< 20		< 2	< 10	32	< 10	15	7								
OREAS 923 (AQUA REGIA) Cert		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5								
OREAS 923 (AQUA REGIA) Meas		0.060	0.66	3	3	14		< 20		< 2	< 10	31	< 10	14	15								
OREAS 923 (AQUA REGIA) Cert		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5								
Oreas 96 (Aqua Regia) Meas			3.92	6																			
Oreas 96 (Aqua Regia) Cert			4.38	4.53																			
Oreas 96 (Aqua Regia) Meas			3.94	6																			
Oreas 96 (Aqua Regia) Cert			4.38	4.53																			
Oreas 96 (Aqua Regia) Meas			4.11	7																			
Oreas 96 (Aqua Regia) Cert			4.38	4.53																			
OREAS 96 (4 Acid) Meas																11.0					26.4		
OREAS 96 (4 Acid) Cert																11.5					26.3		
OREAS 96 (4 Acid) Meas																							
OREAS 96 (4 Acid) Cert																							
Oreas 77b (4 Acid) Meas																1.50	1.68	1490	70	0.37	3.08	2.71	1.23
Oreas 77b (4 Acid) Cert																1.62	1.94	2050	118	0.470	3.44	3.06	1.20
Oreas 77b (4 Acid) Meas																	1.69		40			2.75	
Oreas 77b (4 Acid) Cert																	1.94		118			3.06	
Oreas 72b (4 Acid) Meas																0.26	4.77	144	290	1.09	0.72	2.83	0.30
Oreas 72b (4 Acid) Cert																0.230	4.79	146	330	1.02	0.680	2.79	0.310
Oreas 72b (4 Acid) Meas																	4.93		140			2.89	
Oreas 72b (4 Acid) Cert																	4.79		330			2.79	
OREAS 45f (Aqua Regia) Meas	0.033	0.022	0.02		29	14	0.12	< 20		< 2	< 10	202		5	15								
OREAS 45f (Aqua	0.0320	0.0220	0.0270		31.4	13.2	0.0970	7.67		0.120	1.09	217		6.74	30.0								

Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca	Cd
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
Lower Limit	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS
Regia) Cert																							
OREAS 45f (Aqua Regia) Meas	0.033	0.022	0.02		28	14	0.13	< 20		< 2	< 10	202		5	17								
OREAS 45f (Aqua Regia) Cert	0.0320	0.0220	0.0270		31.4	13.2	0.0970	7.67		0.120	1.09	217		6.74	30.0								
OREAS 45f (Aqua Regia) Meas	0.034	0.021	0.02		27	14	0.11	< 20		< 2	< 10	197		5	12								
OREAS 45f (Aqua Regia) Cert	0.0320	0.0220	0.0270		31.4	13.2	0.0970	7.67		0.120	1.09	217		6.74	30.0								
OREAS 681 (4 Acid) Meas																	7.94		430			6.00	
OREAS 681 (4 Acid) Cert																	7.91		442			5.98	
OREAS 681 (4 Acid) Meas																	7.91		440			6.00	
OREAS 681 (4 Acid) Cert																	7.91		442			5.98	
OREAS 681 (4 Acid) Meas																	7.97		440			5.98	
OREAS 681 (4 Acid) Cert																	7.91		442			5.98	
OREAS 147 (4 Acid) Meas																	5.26		2030			1.19	
OREAS 147 (4 Acid) Cert																	4.90		1940			1.09	
OREAS 147 (4 Acid) Meas																	5.13		1990			1.19	
OREAS 147 (4 Acid) Cert																	4.90		1940			1.09	
Oreas 521 (4 Acid) Meas																0.91	4.79	298		0.90	6.05	3.86	
Oreas 521 (4 Acid) Cert																0.89	4.77	336		0.86	5.85	3.86	
Oreas 521 (4 Acid) Meas																	4.80					3.90	
Oreas 521 (4 Acid) Cert																	4.77					3.86	
OREAS 70b (4 Acid) Meas																0.18	3.90	131	210	1.03	0.98	3.09	0.32
OREAS 70b (4 Acid) Cert																0.17	3.87	148	200	1.04	0.84	3.05	0.36
Oreas 620 (Aqua Regia) Meas	0.117	0.031	2.63	61		20		< 20		< 2	< 10	8	< 10	7	30								
Oreas 620 (Aqua Regia) Cert	0.117	0.031	2.47	62		20		7		0.5	2.2	7	0.79	7	57								
Oreas 620 (Aqua Regia) Meas	0.118	0.030	2.61	62		19		< 20		< 2	< 10	8	< 10	7	26								
Oreas 620 (Aqua Regia) Cert	0.117	0.031	2.47	62		20		7		0.5	2.2	7	0.79	7	57								
Oreas 620 (Aqua Regia) Meas	0.116	0.031	2.63	61		19		< 20		< 2	< 10	8	< 10	7	30								
Oreas 620 (Aqua Regia) Cert	0.117	0.031	2.47	62		20		7		0.5	2.2	7	0.79	7	57								
OREAS 620 (4 Acid) Meas																39.6	6.93	51.2	60	2.41	1.95	1.76	162
OREAS 620 (4 Acid) Cert																38.5	6.72	50.0	2000	2.36	1.93	1.60	163
OREAS 753 (4																	8.78		20			0.13	

Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca	Cd
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
Lower Limit	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS
Acid) Meas																							
OREAS 753 (4 Acid) Cert																	8.22		20			0.11	
Method Blank	0.004	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1								
Method Blank	0.004	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1								
Method Blank	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1								
Method Blank	0.005	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	2	< 2	< 10	< 1	< 10	< 1	< 1								
Method Blank	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1								
Method Blank	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1								
Method Blank																	< 0.01		< 10			< 0.01	
Method Blank																< 0.01	< 0.01	< 0.2	< 10	0.06	0.05	< 0.01	< 0.02
Method Blank																	< 0.01		< 10			< 0.01	
Method Blank																	< 0.01		< 10			< 0.01	
Method Blank																	< 0.01		< 10			< 0.01	
Method Blank																	< 0.01		< 10			< 0.01	
Method Blank																	< 0.01		< 10			< 0.01	
Method Blank																< 0.01	< 0.01	< 0.2	< 10	< 0.05	0.01	< 0.01	0.04
Method Blank																	< 0.01		< 10			< 0.01	

Analyte Symbol	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	Re
Unit Symbol	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1	0.002
Method Code	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS
GXR-6 Meas																							
GXR-6 Cert																							
GXR-6 Meas																							
GXR-6 Cert																							
GXR-6 Meas																							
GXR-6 Cert																							
OREAS 101b (4 Acid) Meas	> 500	40.4			412	10.2					1.61	753		1.27	960	17.1			8.5	1070	21.4		
OREAS 101b (4 Acid) Cert	1325	45			412	10.7					2.36	754		1.23	927	20.1			8.2	1118	23		
OREAS 101b (4 Acid) Meas						10.7					2.32			1.27	967					1150			
OREAS 101b (4 Acid) Cert						10.7					2.36			1.23	927					1118			
OREAS 98 (4 Acid) Meas		107			> 10000																321		
OREAS 98 (4 Acid) Cert		121			148000.0																345		
OREAS 13b (4-Acid) Meas		76.8	10000		2460											9.68			2230				
OREAS 13b (4-Acid) Cert		75	8650.000		2327.000											9.00			2247.000				
OREAS 13b (4-Acid) Meas			9540																				
OREAS 13b (4-Acid) Cert			8650.000																				
OREAS 903 (4 Acid) Meas			73			4.17					2.54			0.75	735		0.03			990			
OREAS 903 (4 Acid) Cert			73.0			4.16					3.31			0.714	690		0.0300			1070			
OREAS 903 (4 Acid) Meas			86			4.31					3.41			0.77	753		0.03			1120			
OREAS 903 (4 Acid) Cert			73.0			4.16					3.31			0.714	690		0.0300			1070			
OREAS 45d (4-Acid) Meas			540			14.5					0.41			0.26	513		0.10			350			
OREAS 45d (4-Acid) Cert			549			14.5					0.412			0.245	490.000		0.101			420.000			
OREAS 45d (4-Acid) Meas			510			14.4					0.41			0.25	511		0.09			350			
OREAS 45d (4-Acid) Cert			549			14.5					0.412			0.245	490.000		0.101			420.000			
OREAS 922 (AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert																							
OREAS 922 (AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert																							
OREAS 922 (AQUA REGIA) Meas																							
OREAS 922																							

Analyte Symbol	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	Re
Unit Symbol	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1	0.002
Method Code	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS
(AQUA REGIA) Cert																							
OREAS 923 (AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert																							
OREAS 923 (AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert																							
OREAS 923 (AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert																							
Oreas 96 (Aqua Regia) Meas																							
Oreas 96 (Aqua Regia) Cert																							
Oreas 96 (Aqua Regia) Meas																							
Oreas 96 (Aqua Regia) Cert																							
Oreas 96 (Aqua Regia) Meas																							
Oreas 96 (Aqua Regia) Cert																							
OREAS 96 (4 Acid) Meas		46.9			> 10000																93.7		
OREAS 96 (4 Acid) Cert		49.9			39300																101		
OREAS 96 (4 Acid) Meas																							
OREAS 96 (4 Acid) Cert																							
Oreas 77b (4 Acid) Meas	25.3	1440	231	2.15	3200	26.2	4.00		1.2	0.110	0.31	13.8	16.9	2.44	606		0.38	3.1	> 10000		53.8	17.3	0.017
Oreas 77b (4 Acid) Cert	27.7	1550	280	2.32	3430	29.9	4.61		1.15	0.112	0.361	15.8	18.8	2.59	640		0.434	3.26	113000		61.0	19.1	0.0220
Oreas 77b (4 Acid) Meas			247			26.3					0.32			2.45	609		0.38						
Oreas 77b (4 Acid) Cert			280			29.9					0.361			2.59	640		0.434						
Oreas 72b (4 Acid) Meas	40.7	118	610	2.99	224	6.84	10.6		2.5	0.039	1.07	21.9	31.7	9.47	1030	3.95	0.95	5.2	7060	260	12.5	47.5	
Oreas 72b (4 Acid) Cert	43.6	131	771	3.37	222	6.84	11.7		2.51	0.0490	1.14	24.4	33.3	9.59	1010	4.01	1.01	5.50	6860	260	14.9	50.8	
Oreas 72b (4 Acid) Meas			635			6.99					1.14			9.71	1100		0.98			260			
Oreas 72b (4 Acid) Cert			771			6.84					1.14			9.59	1010		1.01			260			
OREAS 45f (Aqua Regia) Meas																							
OREAS 45f (Aqua																							

Analyte Symbol	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	Re
Unit Symbol	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1	0.002
Method Code	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS
Regia) Cert																							
OREAS 45f (Aqua Regia) Meas																							
OREAS 45f (Aqua Regia) Cert																							
OREAS 45f (Aqua Regia) Meas																							
OREAS 45f (Aqua Regia) Cert																							
OREAS 681 (4 Acid) Meas			1950			7.68					1.30			5.31	1350		1.55			1310			
OREAS 681 (4 Acid) Cert			1640			7.47					1.35			5.19	1310		1.61			1410			
OREAS 681 (4 Acid) Meas			1770			7.72					1.32			5.33	1360		1.56			1260			
OREAS 681 (4 Acid) Cert			1640			7.47					1.35			5.19	1310		1.61			1410			
OREAS 681 (4 Acid) Meas			1410			7.70					1.34			5.34	1350		1.56			1330			
OREAS 681 (4 Acid) Cert			1640			7.47					1.35			5.19	1310		1.61			1410			
OREAS 147 (4 Acid) Meas			70			3.32					1.59			0.59	412		0.96			1020			
OREAS 147 (4 Acid) Cert			57.0			3.23					1.60			0.535	390		0.948			1550			
OREAS 147 (4 Acid) Meas			58			3.23					1.56			0.58	412		0.94			1090			
OREAS 147 (4 Acid) Cert			57.0			3.23					1.60			0.535	390		0.948			1550			
Oreas 521 (4 Acid) Meas	104	405	34	0.79	6070	20.0	17.4		3.3	0.177	3.06	83.6	16.6	1.18	3150	144	0.92	5.5	74.6	790	7.6	104	0.068
Oreas 521 (4 Acid) Cert	123	386	31	0.72	6070	20.7	17.4		3.2	0.180	3.16	139	16.4	1.13	3210	138	0.98	5.6	73.0	810	9.3	98.0	0.064
Oreas 521 (4 Acid) Meas			40			20.0					3.09			1.19	3150		0.93			800			
Oreas 521 (4 Acid) Cert			31			20.7					3.16			1.13	3210		0.98			810			
OREAS 70b (4 Acid) Meas	24.7	68.8		3.15	48.7	5.64	9.42		1.8	0.040	0.60	13.5	30.6	13.6	1180	4.25	0.74	3.0	2180	220	12.1		
OREAS 70b (4 Acid) Cert	28.2	78.0		3.44	52.0	5.52	10.1		1.9	0.047	0.62	15.3	34.4	13.4	1150	3.30	0.77	3.7	2180	220	13.7		
Oreas 620 (Aqua Regia) Meas																							
Oreas 620 (Aqua Regia) Cert																							
Oreas 620 (Aqua Regia) Meas																							
Oreas 620 (Aqua Regia) Cert																							
Oreas 620 (Aqua Regia) Meas																							
Oreas 620 (Aqua Regia) Cert																							
OREAS 620 (4 Acid) Meas	67.5	12.7	22	5.34	1870	3.03	27.0		5.7	1.16	2.34	27.6	20.4	0.37	442	9.14	1.92	12.1	23.3	360	7950	121	
OREAS 620 (4 Acid) Cert	64.0	12.1	22	5.01	1730	2.94	23.7		5.6	1.15	2.63	29.7	20.0	0.34	440	9.47	1.94	13.1	15.2	350	7740	116	
OREAS 753 (4			12			0.89					2.04			0.01	786		2.12			1110			

Analyte Symbol	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	Re
Unit Symbol	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1	0.002
Method Code	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS
Acid) Meas																							
OREAS 753 (4 Acid) Cert			21			0.84					1.93			0.01	740		2.16			1110			
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank			10			< 0.01					< 0.01			< 0.01			< 0.01			< 10			
Method Blank	< 0.01	< 0.1	3	< 0.05	0.3	< 0.01	0.29	< 0.05	< 0.1	< 0.005	< 0.01	< 0.5	< 0.2	< 0.01	8	0.13	< 0.01	< 0.1	< 0.2	< 10	< 0.5	< 0.1	< 0.002
Method Blank			6			< 0.01					< 0.01			< 0.01			< 0.01			< 10			
Method Blank						< 0.01					< 0.01			< 0.01			< 0.01			< 10			
Method Blank						< 0.01					< 0.01			< 0.01			< 0.01			< 10			
Method Blank						< 0.01					< 0.01			< 0.01			< 0.01			< 10			
Method Blank						< 0.01					< 0.01			< 0.01	< 5		< 0.01			< 10			
Method Blank	0.03	< 0.1		< 0.05	0.4	< 0.01	0.19	< 0.05	< 0.1	< 0.005	< 0.01	< 0.5	< 0.2	< 0.01		0.28	< 0.01	< 0.1	< 0.2	< 10	< 0.5	< 0.1	0.002
Method Blank						< 0.01					< 0.01			< 0.01			< 0.01			< 10			

Analyte Symbol	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1	0.1	0.1	2	0.5
Method Code	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS
GXR-6 Meas																	
GXR-6 Cert																	
GXR-6 Meas																	
GXR-6 Cert																	
GXR-6 Meas																	
GXR-6 Cert																	
OREAS 101b (4 Acid) Meas									34.8	0.364		371	79		124		
OREAS 101b (4 Acid) Cert									36.4	0.35		387	77		133		
OREAS 101b (4 Acid) Meas										0.363			79				
OREAS 101b (4 Acid) Cert										0.35			77				
OREAS 98 (4 Acid) Meas	> 10.0	6.97		126	187											1290	
OREAS 98 (4 Acid) Cert	15.5	20.1		158	206											1360	
OREAS 13b (4-Acid) Meas	1.25															152	
OREAS 13b (4-Acid) Cert	1.2															133	
OREAS 13b (4-Acid) Meas	1.21															151	
OREAS 13b (4-Acid) Cert	1.2															133	
OREAS 903 (4 Acid) Meas	0.50									0.302			80			27	
OREAS 903 (4 Acid) Cert	0.500									0.192			74.0			24.3	
OREAS 903 (4 Acid) Meas	0.51									0.304			83			27	
OREAS 903 (4 Acid) Cert	0.500									0.192			74.0			24.3	
OREAS 45d (4-Acid) Meas	0.05									0.312			131			46	
OREAS 45d (4-Acid) Cert	0.049									0.773			235.0			45.7	
OREAS 45d (4-Acid) Meas	0.05									0.380			139			45	
OREAS 45d (4-Acid) Cert	0.049									0.773			235.0			45.7	
OREAS 922 (AQUA REGIA) Meas																	
OREAS 922 (AQUA REGIA) Cert																	
OREAS 922 (AQUA REGIA) Meas																	
OREAS 922 (AQUA REGIA) Cert																	
OREAS 922 (AQUA REGIA) Meas																	
OREAS 922																	

Analyte Symbol	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1	0.1	0.1	2	0.5
Method Code	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS
(AQUA REGIA) Cert																	
OREAS 923 (AQUA REGIA) Meas																	
OREAS 923 (AQUA REGIA) Cert																	
OREAS 923 (AQUA REGIA) Meas																	
OREAS 923 (AQUA REGIA) Cert																	
OREAS 923 (AQUA REGIA) Meas																	
OREAS 923 (AQUA REGIA) Cert																	
Oreas 96 (Aqua Regia) Meas																	
Oreas 96 (Aqua Regia) Cert																	
Oreas 96 (Aqua Regia) Meas																	
Oreas 96 (Aqua Regia) Cert																	
Oreas 96 (Aqua Regia) Meas																	
Oreas 96 (Aqua Regia) Cert																	
OREAS 96 (4 Acid) Meas	4.50	3.78		38	61.9											444	
OREAS 96 (4 Acid) Cert	4.19	5.09		40.7	65.6											457	
OREAS 96 (4 Acid) Meas	4.43															450	
OREAS 96 (4 Acid) Cert	4.19															457	
Oreas 77b (4 Acid) Meas		7.23	3.4		1.4	34.0	0.28	1.32	6.21	0.056	1.33	1.8	35	2.8	6.7	183	39.8
Oreas 77b (4 Acid) Cert		9.100	3.51		1.59	34.4	0.280	1.35	6.61	0.0640	1.37	1.71	33.6	3.07	6.55	205	37.9
Oreas 77b (4 Acid) Meas										0.059			36			184	
Oreas 77b (4 Acid) Cert										0.0640			33.6			205	
Oreas 72b (4 Acid) Meas	1.47	0.62	12.3		1.3	63.9	0.46	0.06	10.0	0.205	0.34	4.4	73	3.4	12.8	96	88.0
Oreas 72b (4 Acid) Cert	1.49	0.870	12.8		1.43	63.8	0.430	0.0920	11.3	0.216	0.350	4.68	73.6	4.00	12.8	99.0	88.0
Oreas 72b (4 Acid) Meas	1.53									0.216			74			97	
Oreas 72b (4 Acid) Cert	1.49									0.216			73.6			99.0	
OREAS 45f (Aqua Regia) Meas																	
OREAS 45f (Aqua																	

Analyte Symbol	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1	0.1	0.1	2	0.5
Method Code	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS
Regia) Cert																	
OREAS 45f (Aqua Regia) Meas																	
OREAS 45f (Aqua Regia) Cert																	
OREAS 45f (Aqua Regia) Meas																	
OREAS 45f (Aqua Regia) Cert																	
OREAS 681 (4 Acid) Meas	0.10									0.453			228			84	
OREAS 681 (4 Acid) Cert	0.109									0.588			253			88.0	
OREAS 681 (4 Acid) Meas	0.11									0.395			200			84	
OREAS 681 (4 Acid) Cert	0.109									0.588			253			88.0	
OREAS 681 (4 Acid) Meas	0.11									0.516			232			84	
OREAS 681 (4 Acid) Cert	0.109									0.588			253			88.0	
OREAS 147 (4 Acid) Meas	0.02									0.274			49			145	
OREAS 147 (4 Acid) Cert	0.0300									0.470			60.0			138	
OREAS 147 (4 Acid) Meas	0.02									0.254			50			144	
OREAS 147 (4 Acid) Cert	0.0300									0.470			60.0			138	
Oreas 521 (4 Acid) Meas	1.81	3.09	15.0	3	6.8	114	0.21	0.25	4.89	0.377	0.29	30.7	205	52.7	21.4	27	145
Oreas 521 (4 Acid) Cert	1.80	5.66	13.9	2	7.1	158	0.45	0.76	8.26	0.393	0.27	31.0	209	92.0	19.9	24	123
Oreas 521 (4 Acid) Meas	1.75									0.427			213			25	
Oreas 521 (4 Acid) Cert	1.80									0.393			209			24	
OREAS 70b (4 Acid) Meas	0.31	0.36	10.8		1.1	70.6	0.19		6.10	0.182	0.32	1.6	66	3.5	8.6	109	60.2
OREAS 70b (4 Acid) Cert	0.31	0.56	12.4		1.2	74.0	0.30		6.91	0.181	0.33	1.7	67	4.9	9.8	112	66.0
Oreas 620 (Aqua Regia) Meas																	
Oreas 620 (Aqua Regia) Cert																	
Oreas 620 (Aqua Regia) Meas																	
Oreas 620 (Aqua Regia) Cert																	
Oreas 620 (Aqua Regia) Meas																	
Oreas 620 (Aqua Regia) Cert																	
OREAS 620 (4 Acid) Meas	2.59	12.2	4.6		5.1	124	0.17		6.81	0.162	1.62	4.0	23	1.6	13.9	> 10000	227
OREAS 620 (4 Acid) Cert	2.47	76.0	5.2		4.9	131	1.1		11.0	0.135	1.61	4.2	21	2.2	12.3	31500	202
OREAS 753 (4	0.02									< 0.005			2			95	

Analyte Symbol	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1	0.1	0.1	2	0.5
Method Code	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS
Acid) Meas																	
OREAS 753 (4 Acid) Cert	0.01									0.004			1			87	
Method Blank																	
Method Blank																	
Method Blank																	
Method Blank																	
Method Blank																	
Method Blank																	
Method Blank	< 0.01									< 0.005			1			< 2	
Method Blank	< 0.01	< 0.05	0.1	< 1	< 0.2	< 0.2	< 0.05	< 0.05	< 0.01	< 0.005	< 0.02	< 0.1	< 1	< 0.1	< 0.1	< 2	< 0.5
Method Blank	< 0.01									< 0.005			< 1			< 2	
Method Blank	< 0.01									< 0.005			< 1			< 2	
Method Blank	< 0.01									< 0.005			< 1			< 2	
Method Blank	< 0.01									< 0.005			< 1			< 2	
Method Blank	< 0.01									< 0.005			< 1			< 2	
Method Blank	< 0.01	< 0.05	0.2	< 1	< 0.2	< 0.2	< 0.05	< 0.05	< 0.01	< 0.005	< 0.02	< 0.1	< 1	< 0.1	< 0.1	< 2	0.7
Method Blank	< 0.01									< 0.005			< 1			< 2	