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White Metal Resources

Far Lake Property

2019 Assessment Report Grass Roots Prospecting, Grab Samples & Trenching

Thunder Bay Mining District, Ontario
Drift Lake Area (G-0713), Hagey (G-0661) & Conacher (G-0646)
NTS: 05B/09

119418, 549529, 549528, 549535, 549534, 281119,
549531, 328389, 185774, 340798, 206636, 265907, 340797

White Metal Resources Corp.

864 Squire St.
Thunder Bay, ON
P7B 4A8

January 20, 2020

By
Cathy Salo

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Abbreviations

C	Channel
Cpy	Chalcopyrite
Qtz	Quartz
Sil	Silica
Tr	Trace



Date: 03/20/2019	Ontario Location Map Figure 1a
Author:	
Office: Thunder Bay	
Drawing: csalo	
Scale: See Scale Bar	Projection: Longitude/Latitude

Figure 1a - Ontario Location Map

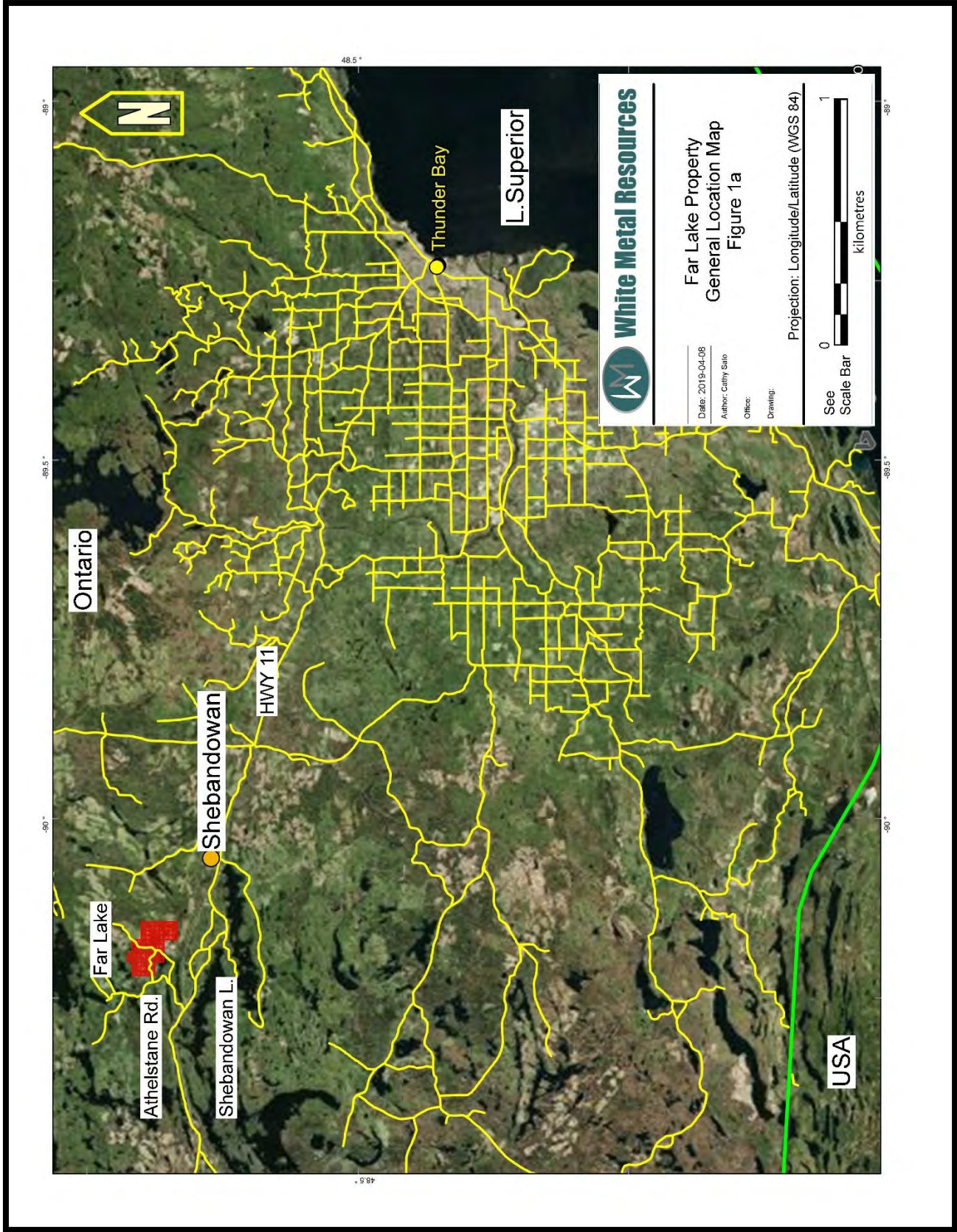


figure 1b - General Location

1.0 Introduction

White Metal Resources Far Lake property is in the Thunder Bay Mining district and located approximate 100 kilometres from the city of Thunder Bay.

The property is in the Quetico Belt which is an assemblage of metasediments and metasedimentary gneisses, migmatites, and granitic rocks of magmatic and anatectic origin. (W.O.Mackasey, C.E. Blackburn and N. F. Trowell, Miscellaneous Paper 58, 1974).

Prospecting covered in this report began on April 29, 2019 and continued to August 31, 2019 which included the clearing of 2 trenches followed by channel sampling and grab sampling on claims 281119 and 328389. Grab samples were taken and assayed on 9 other claims on the property.

2.0 Property Description

The Far Lake Property has a total of 107 unpatented claims (all single cell) making up 2274 hectares. The approximate UTM co-ordinates for the centre of the property are 706,895mE and 5,396,850mN (Nad 83, UTM Zone 15). The yearly work required costs to keep the claims in good standing amounts to \$42,800.

See Appendix II for claim cells details and figure 2 for claim map.

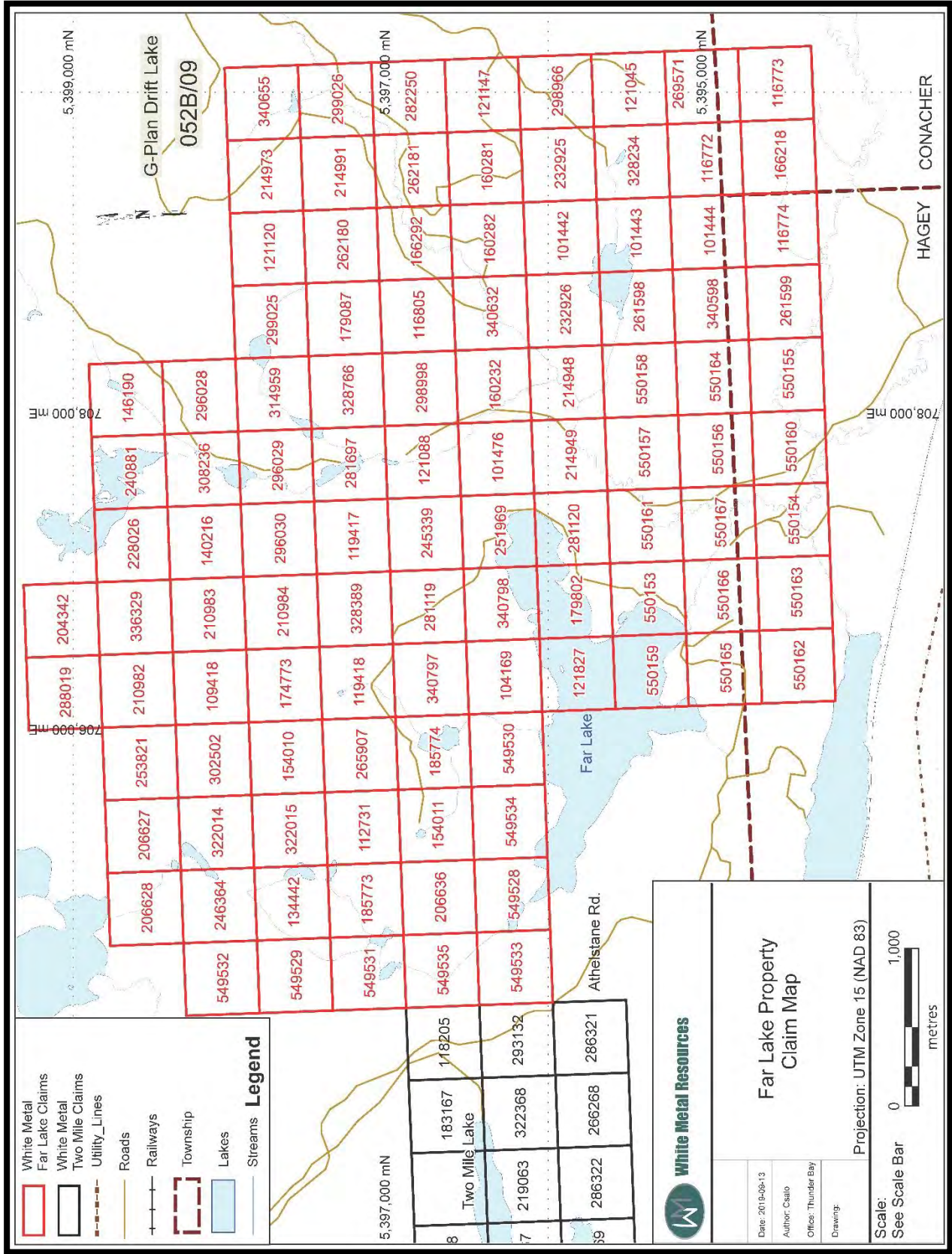


Figure 2 - Claim Map

3.0 Location, Access and Topography

White Metal Far Lake Property is situated within the Thunder Bay Mining District in northern Ontario, Canada. The claims are located approximate 100 kilometres west of Thunder Bay. The claims can be accessed by taking Highway 11 west of Thunder Bay travelling for 98 kilometres to Athelstane Road. Then north on Athelstane for 5.5 kilometres to the south west corner of the property.

The property is located in Drift Lake (G-0713) with the southernmost part located in both Hagey and Conacher townships and within NTS blocks 05B/09. The approximate UTM co-ordinates for the centre of the property are 707,650 E and 5,397,255 N, (Zone 15, NAD 83).

The unincorporated community of Shebandowan is located approximately 13 kilometres to the east along Highway 11.

The property is mainly covered with birch and poplar trees with minimal swamps and some small ponds. There are logging roads located on the property in various locations but minimal cutover. See Figure 3.

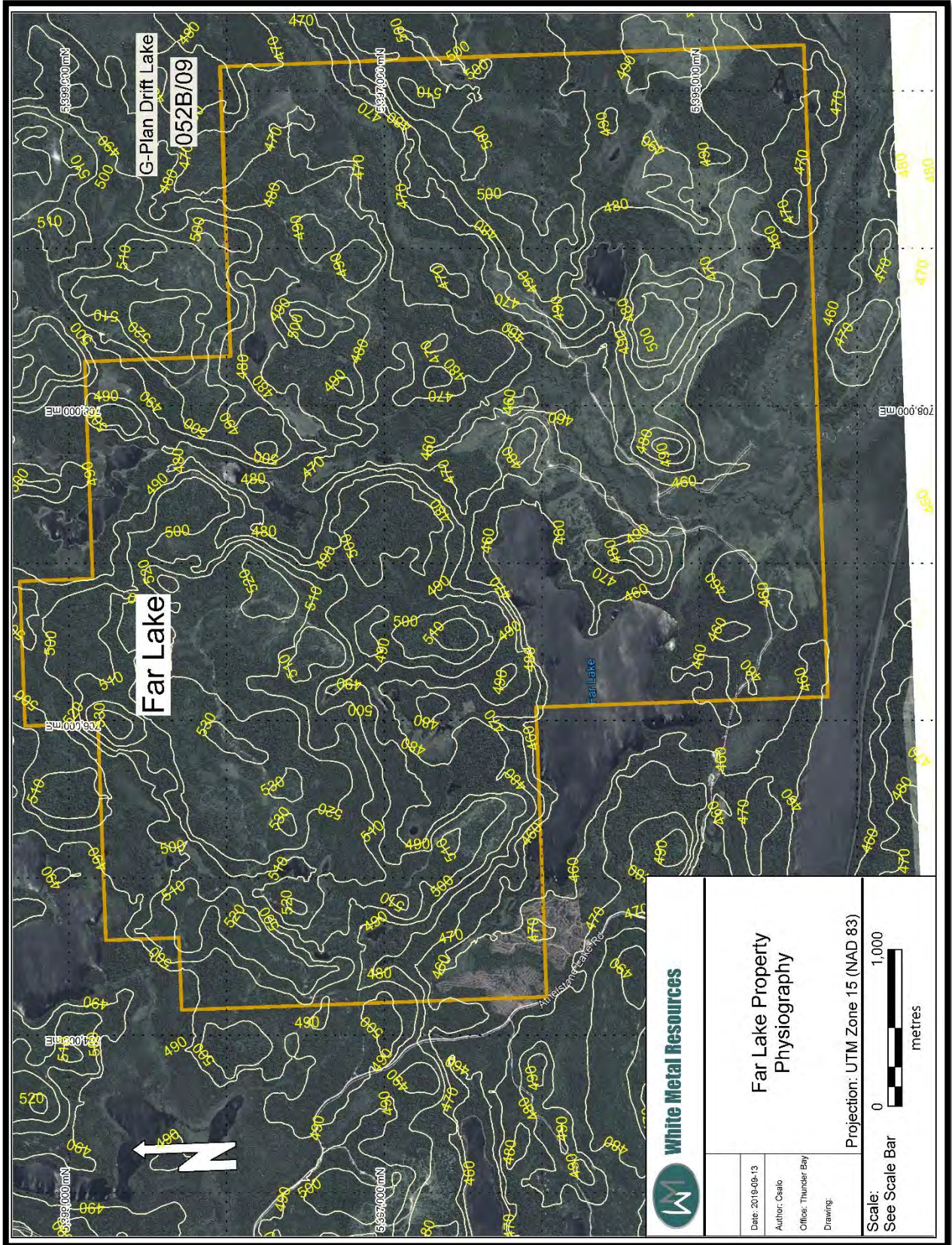


Figure 3 – Physiography

4.0 Historical Work

- Map 338A, Shebandowan area, (Provisional Edition); Geological Survey of Canada, 1938.
- Ontario Department of Mines, Provincial Aeromagnetic and Radioactive Surveys, Thunder Bay 1953: No. 2- Hagey, No. 3 -Conacher.
- Geology by J. Morin and assistants, 1970
- Preliminary maps, P. 708 Hagey Township and P. 709 Conacher Township, scale 1 inch to X mile, issued 1971.
- GartoQraphy by M. J, Colman and assistants, Ministry of Natural Resources, 1972.
- White Metal Resources Corp. began its grass roots program on the Far Lake Property in June 12, 2017 collecting grab samples and channels on exposed outcrops
- White metal carried out ground geophysics over small areas in various locations in 2017 & 2018.

5.0 Geological Setting

5.1 *Regional Geology*

The Far Lake property is in the Quetico Belt which is an assemblage of metasediments and metasedimentary gneisses, migmatites, and granitic rocks of magmatic and anatectic origin. (W.O.Mackasey, C.E. Blackburn and N. F. Trowell, Miscellaneous Paper 58, 1974).

No detail description of the geology for this area was found but outcrop on geology map M2267 identified the rocks as white muscovite-biotite granite and migmatite (mostly lit-par-lit type). In the general vicinity and to the northwest the rocks are described in a report by L. Kaye “the northwestern part of the Athelstane Lake area is underlain by massive coarse-grained white to grey muscovite granite. The rocks are composed of microcline-perthite, quartz, muscovite, and minor amounts of garnet and tourmaline. Pegmatitic phases of the muscovite granite are common in the area.” (L. KAYE Geological Report 48)

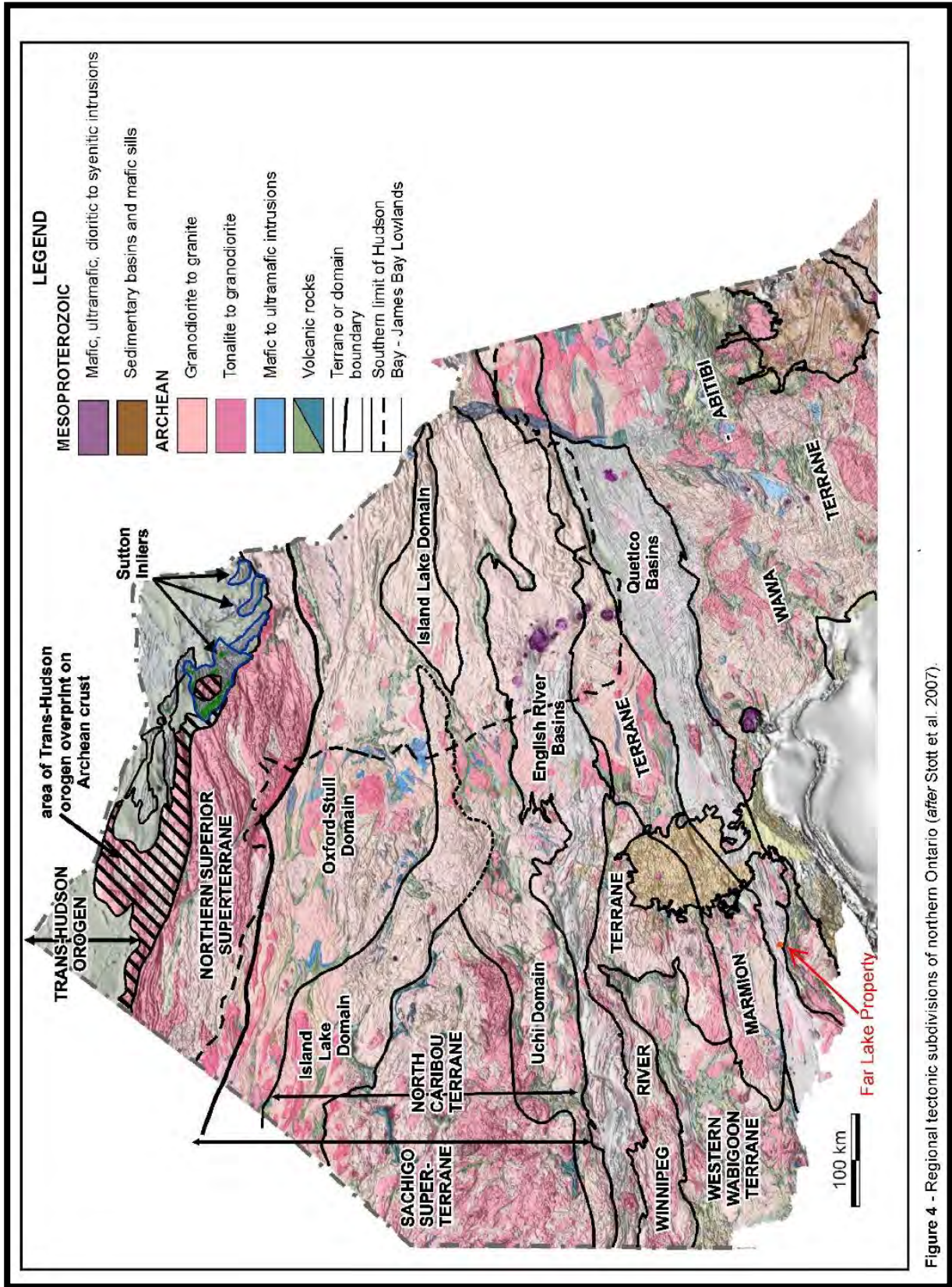


Figure 4 - Regional Tectonic Subdivisions

Figure 4 - Regional tectonic subdivisions of northern Ontario (after Stott et al. 2007).

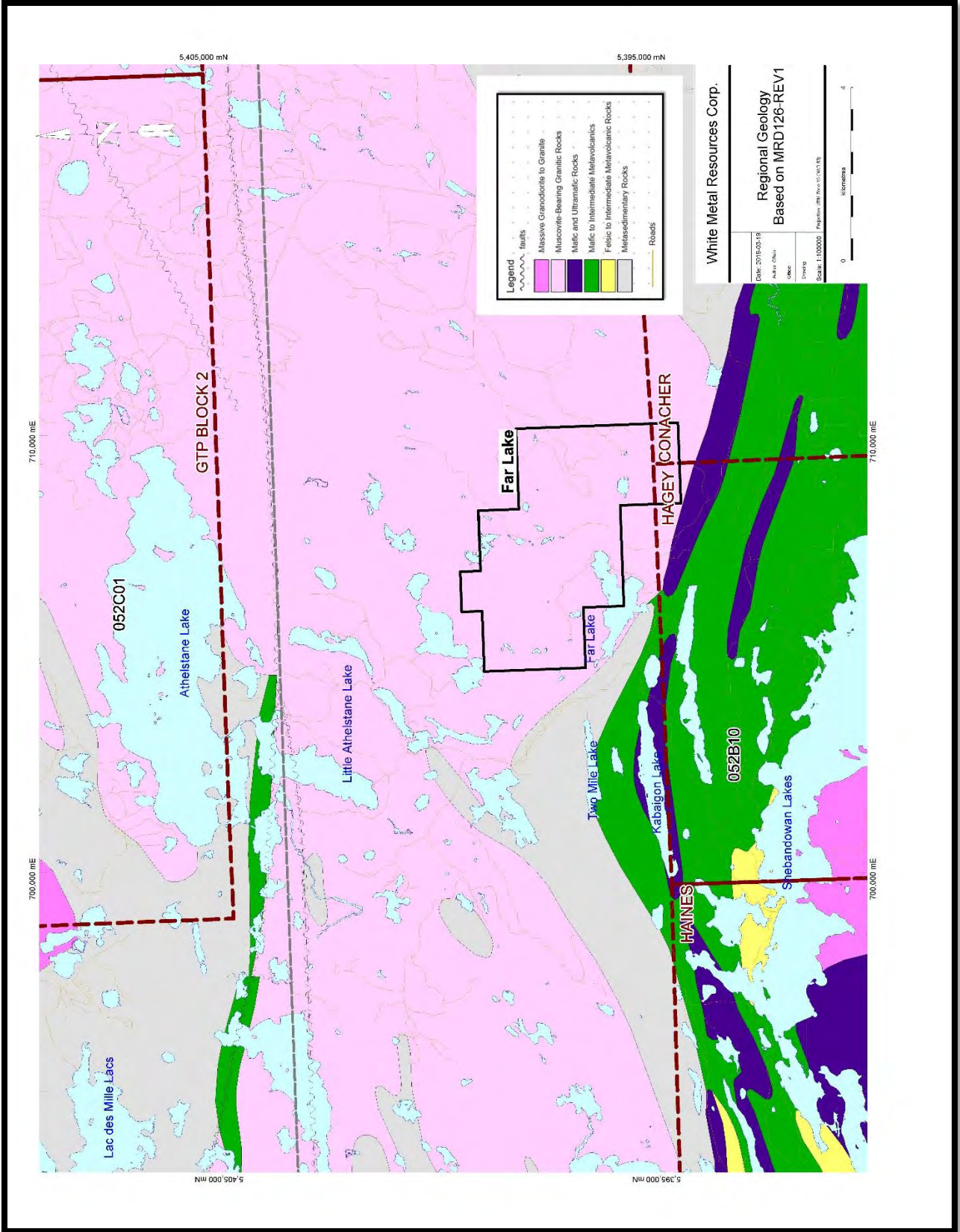


Figure 5 - Regional Geology

5.2 Property Geology and Mineralization

Samples collected are composed of mainly Monzonite, granitic breccia and granodiorites. Areas of quartz veining were located on the property. Alteration comprised of mainly silification and carbonization. Mineralization comprise of pyrite, chalcopyrite, malachite, azurite and calcite in varying amounts. White Metal has not carried out a mapping program for the property.

6.0 2019 Prospecting and Rock Sampling Program And Trenching

Prospecting started on April 26, 2019 and continued to end of August. During this time grab samples were collected on various locations on the property. Trenching began in August of 2019. Below is a table showing the channel sample on the trenches. See Maps 1 and 2 for outline of trenches and location of channels and Map 3 for prospecting and grab samples. See appendix IV for description of grab samples and assays.

Sample No	Sample Descriptions	Easting	Northing	Elevation	Channel	wt/avg (ppm)	Over (m)	channel Length
878051	C1 sil qtz flooded tr cpy	706564.65	5396994.33	523.88	C1	6593.3	3.0	1
878052	C1 sil qt fl up to -5% cpy	706565.22	5396994.90	522.65				1
878053	C1 sil to 1% cpy	706566.01	5396995.49	521.88				1
878054	C2 sil breccia up to -5%cpy	706569.07	5396990.48	520.57	C2	5830	2.0	1
878055	C 2 sil breccia up to 1%cpy	706569.93	5396991.18	521.49				1
878056	C3 sil monzonite qtz fl bands of cpy	706574.61	5396984.01	518.47	C3	5126.7	3.0	1
878057	C3 same as 56	706575.03	5396984.58	517.87				1
878058	C3 same as 057	706575.67	5396985.16	516.66				1
878059	Massive cpy	706577.60	5396982.67	514.50	059	22%	0.7	0.7
878060	C4 fracture zone breccia up to -5% cpy	706578.01	5396977.67	512.64	C4	3104.4	5.0	1
878061	C4 Same as 060	706578.87	5396978.26	511.92				1

Sample No	Sample Descriptions	Easting	Northing	Elevation	Channel	wt/avg (ppm)	Over (m)	channel Length
878062	C 4 same as 062	706579.74	5396978.85	511.73				1
878063	C4 sil breccia up to -5% cpy	706580.52	5396979.55	509.03				1
878064	C4 Fracture zone breccia sil up to -5%cpy	706581.38	5396980.25	509.79				1
878065	C5 sil altered mon tr to -5% cpy hem stringers	706585.18	5396967.14	509.15	C5	1265.9	7.0	1
878066	C5 same as 065	706585.89	5396967.84	509.26				1
878067	C5 Same as 065 rusty patches	706586.75	5396968.42	509.05				1
878068	C5 Same as 065	706587.54	5396969.01	508.42				1
878069	C5 same as 065 only up to -5cpy	706588.32	5396969.71	505.71				1
878070	C5 same as 065 blacker matrix -5%cpy	706589.03	5396970.40	508.01				1
878071	C5 slightly altered monzonite no cpy	706589.82	5396970.99	505.29				1
878072	Grab sample rusty copper zone 10cm wide up to 2% cy	706596.79	5396963.78	503.87	Grab	5560		
878073	C6 sil monzonite tr cpy	706614.43	5396925.04	490.20	C6	1556	3.0	1
878074	C6 rusty frac monzonite up to 1% cpy	706615.60	5396925.30	489.89				1
878075	C4 Same as 074	706616.92	5396925.58	487.53				1
878076	Sil monzonite ser qtz flooded no sulfide	706620.87	5396926.28	487.66	076	551	1.0	1
878077	c7 Sil altered monzonite hem stringers ser tr cpy	706615.91	5396916.74	488.59	C7	5098.8	4.0	1
878078	C7 Same as 77	706617.09	5396917.01	489.40				1
878079	C7 Same as 077 shear zone only 20cm wide up to 1% cpy	706618.48	5396917.28	489.48				1
878080	C7Same as 077 no shear	706619.56	5396917.88	489.23				1

7.0 Sample Preparation and Analyst

All samples were delivered by Michael Stares to Activation Laboratories Ltd. and preparation facility in Thunder Bay, Ontario. The Actlabs analytical package requested were Code 1A2-Tbay Au - Fire Assay AA (QOP Fire Assay Tbay), Code 1C-OES-Tbay Fire Assay ICPOES (QOP Fire Assay Tbay) and Code 1E3-Tbay Aqua Regia ICP(AQUAGEO). The samples were processed, and representative pulps sent to Activation Laboratories Ltd.'s analytical facility in Ancaster, Ontario for analysis. See appendix V for explanation of Actlab's methods.

8.0 Recommendations and Conclusions

The initial prospecting, trenching and sampling programs have demonstrated that the area offers significant potential to host economic gold, copper, Platinum and Palladium mineralization. An airborne Magnetic and EM survey is recommended to get a cohesive understanding of the area to aid in further exploration.

9.0 References

Stott, G.M. (1973): Ontario Geological Survey Map M 2267, Lower Shebandowan Lake, Thunder Bay District.

W.O. MACKASEY, C.E. BLACKBURN AND N. F. TROWELL (1974); A Regional Approach to The Wabigoon-Quetico Belts and Its Bearing on Exploration In Northwestern Ontario, Miscellaneous Paper 58

L. KAYE (1967): Geology of Eastern Lac des Mille Lacs Area District of Thunder Bay Geological Report 48

Map 338A, Shebandowan area, (Provisional Edition); Geological Survey of Canada, 1938.

Preliminary maps, P. 708 Hagey Township and P. 709 Conacher Township, scale 1 inch to X mile, issued 1971.

MRD126-Revision 1 - 1:250 000 Scale Bedrock Geology of Ontario-Revision 1

10. CERTIFICATION OF QUALIFICATIONS

I, Cathy Salo, of 475 Francis St. East, Thunder Bay, Ontario, do hereby certify that:

1. I hold a Bachelor of Science Degree in Earth Science (1989) from Memorial University of Newfoundland, St. John's, Newfoundland and Labrador.
2. I have practiced my profession in Ontario since 1989 and have been employed directing by Ontario mining exploration companies for the last 17 years as the sole proprietary of Salo Geoscience Services.



Cathy Salo

Salo Geoscience Services

Date: April 3, 2020

Appendix I – List of Personnel

Employee/Contractor/Company	Activities
Activation Laboratories, Ancaster, ON	Sample Analysis
Paul Neilson Thunder Bay, ON (Paul Nielsen P.Geo Consulting)	GIS Compilation - Support
Ranlyn Enterprises	Excavator & Float
Salo Geoscience Services Cathy Salo	GIS Compilation & Report
Michael Stares	Prospecting and mapping Trench
Hickman Prospecting Services Cliff Hickman	Prospecting
Logan Hart	Washing Trench
Zack Keats	Washing Trench

Appendix II

Tenure No.	Type	Issue Date	Anniversary	Holder
314959	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
340598	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
340632	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
340655	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
146190	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
140216	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
550156	Single Cell Mining Claim	20190520	20210520	(100) WHITE METAL RESOURCES CORP.
550153	Single Cell Mining Claim	20190520	20210520	(100) WHITE METAL RESOURCES CORP.
112731	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
109418	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
101476	Single Cell Mining Claim	20180410	20190713	(100) WHITE METAL RESOURCES CORP.
104169	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
204342	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
121147	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
121120	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
119418	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
119417	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
116772	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
206627	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
549529	Single Cell Mining Claim	20190508	20210508	(100) WHITE METAL RESOURCES CORP.

Tenure No.	Type	Issue Date	Anniversary	Holder
549528	Single Cell Mining Claim	20190508	20210508	(100) WHITE METAL RESOURCES CORP.
116805	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
116773	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
101442	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
101444	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
549535	Single Cell Mining Claim	20190508	20210508	(100) WHITE METAL RESOURCES CORP.
549534	Single Cell Mining Claim	20190508	20210508	(100) WHITE METAL RESOURCES CORP.
206628	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
550154	Single Cell Mining Claim	20190520	20210520	(100) WHITE METAL RESOURCES CORP.
550155	Single Cell Mining Claim	20190520	20210520	(100) WHITE METAL RESOURCES CORP.
550157	Single Cell Mining Claim	20190520	20210520	(100) WHITE METAL RESOURCES CORP.
134442	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
550162	Single Cell Mining Claim	20190520	20210520	(100) WHITE METAL RESOURCES CORP.
121827	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
121045	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
121088	Single Cell Mining Claim	20180410	20190713	(100) WHITE METAL RESOURCES CORP.
214973	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
210982	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
210984	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
228026	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
262181	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
154010	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.

Tenure No.	Type	Issue Date	Anniversary	Holder
281119	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
299025	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
296029	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
550163	Single Cell Mining Claim	20190520	20210520	(100) WHITE METAL RESOURCES CORP.
550161	Single Cell Mining Claim	20190520	20210520	(100) WHITE METAL RESOURCES CORP.
550159	Single Cell Mining Claim	20190520	20210520	(100) WHITE METAL RESOURCES CORP.
550158	Single Cell Mining Claim	20190520	20210520	(100) WHITE METAL RESOURCES CORP.
550160	Single Cell Mining Claim	20190520	20210520	(100) WHITE METAL RESOURCES CORP.
101443	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
336329	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
296030	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
549533	Single Cell Mining Claim	20190508	20210508	(100) WHITE METAL RESOURCES CORP.
549532	Single Cell Mining Claim	20190508	20210508	(100) WHITE METAL RESOURCES CORP.
549531	Single Cell Mining Claim	20190508	20210508	(100) WHITE METAL RESOURCES CORP.
549530	Single Cell Mining Claim	20190508	20210508	(100) WHITE METAL RESOURCES CORP.
322015	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
174773	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
160232	Single Cell Mining Claim	20180410	20190713	(100) WHITE METAL RESOURCES CORP.
160281	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
116774	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
214991	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
269571	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.

Tenure No.	Type	Issue Date	Anniversary	Holder
253821	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
245339	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
240881	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
179087	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
214948	Single Cell Mining Claim	20180410	20190713	(100) WHITE METAL RESOURCES CORP.
210983	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
179802	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
298966	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
296028	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
154011	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
288019	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
282250	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
281697	Single Cell Mining Claim	20180410	20190713	(100) WHITE METAL RESOURCES CORP.
550167	Single Cell Mining Claim	20190520	20210520	(100) WHITE METAL RESOURCES CORP.
550165	Single Cell Mining Claim	20190520	20210520	(100) WHITE METAL RESOURCES CORP.
550164	Single Cell Mining Claim	20190520	20210520	(100) WHITE METAL RESOURCES CORP.
302502	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
262180	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
246364	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
166218	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
160282	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
328389	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.

Tenure No.	Type	Issue Date	Anniversary	Holder
214949	Single Cell Mining Claim	20180410	20190713	(100) WHITE METAL RESOURCES CORP.
185774	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
185773	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
261599	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
299026	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
550166	Single Cell Mining Claim	20190520	20210520	(100) WHITE METAL RESOURCES CORP.
232926	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
232925	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
166292	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
298998	Single Cell Mining Claim	20180410	20190713	(100) WHITE METAL RESOURCES CORP.
340798	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
322014	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
308236	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
261598	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
206636	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
265907	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
251969	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
328234	Single Cell Mining Claim	20180410	20191207	(100) WHITE METAL RESOURCES CORP.
328766	Single Cell Mining Claim	20180410	20190713	(100) WHITE METAL RESOURCES CORP.
281120	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.
340797	Single Cell Mining Claim	20180410	20190620	(100) WHITE METAL RESOURCES CORP.

Appendix III

**ASSAY
CERTIFICATES OF
ANALYSIS
&
Methods**



Date Submitted: 09-May-19
Invoice No.: A19-06420
Invoice Date: 30-May-19
Your Reference: Far Lake

White Metal Resources
684 Squier St
Thunder bay ontario
Canada

ATTN: Cathy Salo

CERTIFICATE OF ANALYSIS

19 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay Au - Fire Assay AA (QOP Fire Assay Tbay)

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

REPORT **A19-06420**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

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

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written in a cursive, somewhat stylized font.

Emmanuel Esemé , Ph.D.
Quality Control

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

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	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
Method Code	FA-AA	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
E5190598	< 5	< 0.2	< 0.5	80	1310	< 1	36	< 2	117	2.82	< 2	< 10	79	1.7	< 2	2.73	28	50	6.61	20	2	0.47	96
E5190599	< 5	0.3	< 0.5	439	139	< 1	4	5	20	0.95	< 2	< 10	38	< 0.5	< 2	0.07	2	12	1.36	< 10	< 1	0.23	25
E5190600	< 5	< 0.2	< 0.5	754	138	< 1	3	3	7	0.18	< 2	< 10	27	< 0.5	< 2	0.32	< 1	36	0.95	< 10	< 1	0.09	< 10
E5190601	< 5	< 0.2	< 0.5	680	151	< 1	6	5	10	0.65	4	< 10	48	< 0.5	< 2	0.12	2	24	1.39	< 10	< 1	0.22	30
E5190602	< 5	< 0.2	< 0.5	361	178	< 1	10	13	24	1.13	< 2	< 10	40	1.0	< 2	0.07	2	16	1.58	< 10	< 1	0.27	31
E5190603	< 5	< 0.2	< 0.5	7	276	< 1	23	3	41	1.10	< 2	< 10	34	0.8	< 2	0.12	7	70	1.68	< 10	< 1	0.21	15
E5190604	< 5	1.8	< 0.5	> 10000	523	1	40	6	30	1.69	< 2	< 10	31	1.3	3	2.98	9	95	4.29	< 10	< 1	0.22	< 10
E5190605	< 5	0.2	< 0.5	200	1360	< 1	34	< 2	86	2.83	< 2	< 10	23	< 0.5	< 2	2.88	31	23	7.99	< 10	< 1	0.30	< 10
E5190606	< 5	< 0.2	< 0.5	80	196	< 1	20	< 2	23	1.30	< 2	< 10	65	0.7	< 2	0.11	6	43	1.40	< 10	< 1	0.33	11
E5190607	< 5	0.5	< 0.5	3070	76	8	4	12	6	0.54	< 2	< 10	47	< 0.5	11	0.04	2	37	1.23	< 10	< 1	0.13	107
E5190608	< 5	< 0.2	< 0.5	307	1400	< 1	2	5	159	1.05	< 2	< 10	125	0.8	< 2	1.49	17	4	9.62	< 10	2	0.66	38
E5190609	< 5	< 0.2	< 0.5	801	731	1	36	3	42	1.64	< 2	< 10	42	0.5	< 2	0.13	13	77	3.97	< 10	< 1	0.16	21
CH001	< 5	< 0.2	< 0.5	62	205	7	5	2	11	0.77	< 2	< 10	53	< 0.5	< 2	0.50	5	11	1.10	< 10	< 1	0.16	< 10
CH002	< 5	< 0.2	< 0.5	13	183	< 1	4	< 2	11	0.64	< 2	< 10	26	< 0.5	< 2	0.30	4	17	0.90	< 10	< 1	0.07	< 10
CH003	< 5	0.3	< 0.5	664	236	< 1	17	5	31	1.61	< 2	< 10	59	0.6	12	0.14	6	34	1.89	< 10	< 1	0.34	13
CH004	< 5	< 0.2	< 0.5	420	341	< 1	33	3	41	2.08	< 2	< 10	81	0.8	< 2	0.14	10	80	2.71	< 10	< 1	0.45	37
CH005	< 5	< 0.2	< 0.5	1360	175	< 1	14	< 2	19	1.03	< 2	< 10	44	< 0.5	< 2	0.07	4	50	1.52	< 10	< 1	0.22	17
CH006	< 5	< 0.2	< 0.5	286	205	2	14	28	28	1.08	< 2	< 10	47	0.7	< 2	0.09	5	37	1.34	< 10	< 1	0.35	25
CH007	188	8.5	< 0.5	> 10000	126	< 1	3	8	19	0.10	< 2	< 10	< 10	< 0.5	15	0.46	< 1	19	5.99	< 10	< 1	0.07	< 10

Note Samples in report and map are not identified with E before number.

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Cu
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.001
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	ICP-OES
E5190598	3.28	0.198	0.198	0.20	< 2	15	87	0.32	< 20	< 1	< 2	< 10	180	< 10	22	3	
E5190599	0.93	0.100	0.023	0.06	< 2	2	7	< 0.01	< 20	< 1	2	< 10	7	< 10	5	25	
E5190600	0.06	0.049	0.007	0.08	< 2	< 1	7	< 0.01	< 20	< 1	< 2	< 10	4	< 10	2	7	
E5190601	0.31	0.097	0.012	0.09	< 2	1	12	< 0.01	< 20	< 1	< 2	< 10	12	< 10	4	31	
E5190602	0.64	0.087	0.033	0.03	< 2	2	9	< 0.01	< 20	2	< 2	< 10	17	< 10	6	10	
E5190603	0.77	0.048	0.033	< 0.01	< 2	3	6	< 0.01	< 20	< 1	< 2	< 10	26	< 10	5	15	
E5190604	1.61	0.059	0.038	1.99	< 2	8	14	0.02	< 20	< 1	4	< 10	71	< 10	9	12	1.99
E5190605	1.05	0.159	0.031	2.80	4	15	38	0.23	< 20	< 1	< 2	< 10	115	< 10	10	7	
E5190606	0.70	0.047	0.029	0.02	< 2	2	5	< 0.01	< 20	3	< 2	< 10	20	< 10	3	12	
E5190607	0.39	0.020	0.020	0.37	< 2	1	6	< 0.01	< 20	< 1	< 2	< 10	8	< 10	3	8	
E5190608	0.31	0.205	0.334	0.05	3	8	16	0.16	< 20	3	< 2	< 10	8	< 10	72	5	
E5190609	1.06	0.074	0.061	0.10	< 2	3	6	0.02	< 20	< 1	< 2	< 10	59	< 10	5	11	
CH001	0.59	0.208	0.025	0.33	< 2	< 1	11	< 0.01	< 20	< 1	< 2	< 10	11	< 10	2	11	
CH002	0.45	0.252	0.025	0.15	< 2	< 1	13	< 0.01	< 20	< 1	< 2	< 10	11	< 10	1	10	
CH003	0.99	0.076	0.056	0.07	< 2	2	6	< 0.01	< 20	2	< 2	< 10	31	< 10	3	5	
CH004	1.11	0.084	0.061	0.22	< 2	4	8	0.01	< 20	< 1	< 2	< 10	49	< 10	4	7	
CH005	0.58	0.065	0.030	0.14	< 2	2	6	< 0.01	< 20	< 1	< 2	< 10	23	< 10	2	9	
CH006	0.55	0.032	0.035	0.04	< 2	2	8	< 0.01	< 20	< 1	< 2	< 10	19	< 10	5	10	
CH007	0.02	0.032	0.029	4.87	< 2	< 1	8	< 0.01	< 20	< 1	< 2	< 10	5	< 10	1	6	5.52

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	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
Method Code	FA-AA	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
OREAS 14P Meas																							
OREAS 14P Cert																							
MP-1b Meas																							
MP-1b Cert																							
CCU-1d Meas																							
CCU-1d Cert																							
CPB-2 Meas																							
CPB-2 Cert																							
CZN-4 Meas																							
CZN-4 Cert																							
OREAS 904 (Aqua Regia) Meas		0.3	< 0.5	6270	456	2	34	8	26	1.94	98		76	7.8	9	0.05	94	25	6.16	< 10		0.88	41
OREAS 904 (Aqua Regia) Cert		0.366	0.0580	6300	410	2.02	36.6	8.49	22.4	1.25	91.0		68.0	6.54	3.74	0.0404	82.0	17.5	6.40	3.40		0.603	33.9
OREAS 922 (AQUA REGIA) Meas		0.8	< 0.5	2290	777	< 1	35	61	274	3.03	11		77	0.8	8	0.42	18	48	5.19	< 10		0.47	38
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
OREAS 923 (AQUA REGIA) Meas		1.8	0.5	4370	861	< 1	33	79	351	3.02	8		57	0.7	18	0.41	18	44	5.68	< 10		0.39	35
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
PTC-1b Meas																							
PTC-1b Cert																							
OREAS 520 (Aqua Regia) Meas				2860	2080	56	76	< 2	20	1.56	140			0.6	< 2	3.57	180	35	16.0	10		0.50	70
OREAS 520 (Aqua Regia) Cert				2960	2280	62.0	73.0	5.22	20.7	1.56	152			0.540	2.90	3.84	196	37.4	15.74	13.7		0.506	83.0
OREAS 222 (Fire Assay) Meas	1240																						
OREAS 222 (Fire Assay) Cert	1220																						
Oreas 621 (Aqua Regia) Meas		66.2	297	3560	539	12	23	> 5000	> 10000	1.87	79			0.6	6	1.71	29	31	3.35	10	4	0.38	20
Oreas 621 (Aqua Regia) Cert		68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93	0.333	19.4
OREAS 255 (Fire Assay) Meas	4090																						
OREAS 255 (Fire Assay) Cert	4080																						

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	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
Method Code	FA-AA	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
E5190607 Orig	< 5	0.5	< 0.5	3070	78	8	3	13	6	0.55	< 2	< 10	48	< 0.5	10	0.04	2	39	1.25	< 10	< 1	0.14	109
E5190607 Dup	< 5	0.5	< 0.5	3060	74	8	4	11	7	0.53	< 2	< 10	47	< 0.5	12	0.04	2	36	1.21	< 10	< 1	0.13	106
CH007 Orig	151																						
CH007 Dup	225																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 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
Method Blank																							

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Cu
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.001
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	ICP-OES
OREAS 14P Meas																	0.899
OREAS 14P Cert																	0.997
MP-1b Meas																	3.15
MP-1b Cert																	3.07
CCU-1d Meas																	23.9
CCU-1d Cert																	23.93
CPB-2 Meas																	0.122
CPB-2 Cert																	0.1213
CZN-4 Meas																	0.403
CZN-4 Cert																	0.403
OREAS 904 (Aqua Regia) Meas	0.20		0.103	0.04	3	5	20	< 20			< 2	< 10	33		21		
OREAS 904 (Aqua Regia) Cert	0.143		0.0950	0.0340	0.780	3.83	16.5	7.56			0.150	5.20	21.7		17.2		
OREAS 922 (AQUA REGIA) Meas	1.34	0.030	0.065	0.36	2	4	17	< 20			< 2	< 10	36	< 10	23	23	
OREAS 922 (AQUA REGIA) Cert	1.33	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 923 (AQUA REGIA) Meas	1.41		0.061	0.66	3	4	15	< 20			< 2	< 10	36	< 10	21	29	
OREAS 923 (AQUA REGIA) Cert	1.43		0.061	0.684	0.58	3.09	13.6	14.3			0.12	1.80	30.6	1.96	14.3	22.5	
PTC-1b Meas																	7.84
PTC-1b Cert																	7.97
OREAS 520 (Aqua Regia) Meas	1.14	0.069	0.073	0.87	6	12	30	0.16	< 20	2	< 2	< 10	247	28	14	39	
OREAS 520 (Aqua Regia) Cert	1.14	0.0520	0.0740	1.03	1.97	11.8	36.0	0.135	8.03	0.33	0.0900	14.9	247	29.6	14.3	28.0	
OREAS 222 (Fire Assay) Meas																	
OREAS 222 (Fire Assay) Cert																	
Oreas 621 (Aqua Regia) Meas	0.45	0.184	0.031	4.37	83	3	18	< 20			< 2	< 10	14	< 10	9	21	
Oreas 621 (Aqua Regia) Cert	0.436	0.160	0.0335	4.50	107	2.20	18.9	5.91			0.770	1.63	10.9	1.00	6.87	55.0	
OREAS 255 (Fire Assay) Meas																	
OREAS 255 (Fire Assay) Cert																	

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Cu
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.001
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	ICP-OES
Assay) Cert																	
E5190607 Orig	0.40	0.020	0.021	0.37	< 2	1	6	< 0.01	< 20	< 1	< 2	< 10	8	< 10	3	8	
E5190607 Dup	0.39	0.020	0.020	0.37	< 2	1	5	< 0.01	< 20	< 1	< 2	< 10	8	< 10	3	8	
CH007 Orig																	
CH007 Dup																	
Method Blank																	
Method Blank																	
Method Blank	< 0.01	0.014	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1	
Method Blank																	< 0.001



Date Submitted: 13-May-19
Invoice No.: A19-06570
Invoice Date: 27-May-19
Your Reference: Far Lake

White Metal Resources
684 Squier Street
Thunder Bay ON P7B 4A8
Canada

ATTN: Mick Stares

CERTIFICATE OF ANALYSIS

9 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay Au - Fire Assay AA (QOP Fire Assay Tbay)

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

REPORT **A19-06570**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

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

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written in a cursive, somewhat stylized font.

Emmanuel Esemé , Ph.D.
Quality Control

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

Results

Activation Laboratories Ltd.

Report: A19-06570

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	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
Method Code	FA-AA	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
1123251	< 5	< 0.2	< 0.5	7	162	< 1	7	4	11	0.60	3	< 10	37	< 0.5	< 2	0.38	3	14	0.91	< 10	< 1	0.12	< 10
1123252	< 5	< 0.2	< 0.5	20	166	1	8	< 2	24	0.60	< 2	< 10	21	< 0.5	< 2	0.07	2	34	1.15	< 10	< 1	0.16	19
1123253	< 5	< 0.2	< 0.5	25	295	3	23	3	51	1.16	< 2	< 10	35	< 0.5	< 2	0.04	6	58	2.25	< 10	< 1	0.17	19
1123254	< 5	< 0.2	< 0.5	207	68	6	3	< 2	3	0.25	< 2	< 10	39	< 0.5	< 2	0.06	< 1	45	0.53	< 10	< 1	0.14	21
1123255	< 5	< 0.2	< 0.5	179	50	3	4	3	< 2	0.35	< 2	< 10	35	< 0.5	< 2	0.03	1	35	1.32	< 10	< 1	0.25	19
1123256	< 5	< 0.2	< 0.5	6	37	1	1	3	< 2	0.20	< 2	< 10	48	< 0.5	< 2	0.01	< 1	30	0.65	< 10	< 1	0.23	< 10
1123257	< 5	< 0.2	< 0.5	780	66	6	4	< 2	4	0.28	< 2	< 10	25	< 0.5	< 2	0.03	< 1	42	0.89	< 10	< 1	0.14	27
1123258	< 5	< 0.2	< 0.5	356	60	3	5	5	4	0.41	< 2	< 10	138	< 0.5	< 2	0.04	< 1	94	0.88	< 10	< 1	0.11	63
235505	< 5	< 0.2	< 0.5	67	54	3	2	< 2	3	0.33	< 2	< 10	1270	< 0.5	< 2	0.02	< 1	45	0.62	< 10	< 1	0.12	< 10

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
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
1123251	0.59	0.124	0.028	0.03	< 2	< 1	15	< 0.01	< 20	4	< 2	< 10	11	< 10	< 1	8
1123252	0.29	0.035	0.029	< 0.01	< 2	< 1	3	< 0.01	< 20	3	< 2	< 10	10	< 10	4	9
1123253	0.69	0.055	0.016	< 0.01	< 2	2	4	0.01	< 20	1	< 2	< 10	24	< 10	2	9
1123254	0.08	0.028	0.016	0.02	< 2	< 1	5	< 0.01	< 20	4	< 2	< 10	6	< 10	1	5
1123255	0.06	0.031	0.014	0.29	< 2	1	8	< 0.01	< 20	2	< 2	< 10	9	< 10	1	8
1123256	0.02	0.027	0.005	0.06	< 2	< 1	5	< 0.01	< 20	< 1	< 2	< 10	2	< 10	< 1	2
1123257	0.14	0.029	0.018	0.07	< 2	< 1	5	< 0.01	< 20	< 1	< 2	< 10	7	< 10	2	3
1123258	0.29	0.026	0.017	0.05	< 2	< 1	5	< 0.01	< 20	< 1	< 2	< 10	6	< 10	2	3
235505	0.23	0.045	0.004	0.05	< 2	< 1	35	< 0.01	< 20	< 1	< 2	< 10	5	< 10	3	5

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	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
Method Code	FA-AA	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
OREAS 904 (Aqua Regia) Meas		0.3	< 0.5	6460	454	2	36	8	25	1.94	95		72	7.7	4	0.05	90	25	6.47	< 10		0.96	41
OREAS 904 (Aqua Regia) Cert		0.366	0.0580	6300	410	2.02	36.6	8.49	22.4	1.25	91.0		68.0	6.54	3.74	0.0404	82.0	17.5	6.40	3.40		0.603	33.9
OREAS 922 (AQUA REGIA) Meas		0.9	< 0.5	2370	796	< 1	37	60	275	3.05	3		77	0.8	8	0.42	17	48	5.41	< 10		0.53	39
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
OREAS 923 (AQUA REGIA) Meas		1.6	< 0.5	4640	892	< 1	33	78	355	3.01	7		62	0.7	16	0.42	19	42	6.09	< 10		0.44	36
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
OREAS 222 (Fire Assay) Meas	1210																						
OREAS 222 (Fire Assay) Cert	1220																						
Oreas 621 (Aqua Regia) Meas		67.1	296	3680	550	13	27	> 5000	> 10000	1.82	78			0.6	< 2	1.68	29	31	3.50	10	4	0.40	20
Oreas 621 (Aqua Regia) Cert		68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93	0.333	19.4
OREAS 255 (Fire Assay) Meas	4070																						
OREAS 255 (Fire Assay) Cert	4080																						
1123258 Orig		< 0.2	< 0.5	364	61	4	5	5	4	0.42	< 2	< 10	142	< 0.5	< 2	0.04	< 1	110	0.89	< 10	< 1	0.11	64
1123258 Dup		< 0.2	< 0.5	349	60	3	4	4	4	0.40	< 2	< 10	134	< 0.5	< 2	0.04	< 1	78	0.88	< 10	< 1	0.11	62
235505 Orig	< 5																						
235505 Dup	< 5																						
Method Blank	< 5																						
Method Blank		< 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

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
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
OREAS 904 (Aqua Regia) Meas	0.22		0.099	0.04	3	5	20		< 20		< 2	< 10	33		21	
OREAS 904 (Aqua Regia) Cert	0.143		0.0950	0.0340	0.780	3.83	16.5		7.56		0.150	5.20	21.7		17.2	
OREAS 922 (AQUA REGIA) Meas	1.50	0.033	0.067	0.37	< 2	4	17		< 20		< 2	< 10	38	< 10	23	26
OREAS 922 (AQUA REGIA) Cert	1.33	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 923 (AQUA REGIA) Meas	1.57		0.062	0.66	3	4	15		< 20		< 2	< 10	37	< 10	21	32
OREAS 923 (AQUA REGIA) Cert	1.43		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 222 (Fire Assay) Meas																
OREAS 222 (Fire Assay) Cert																
Oreas 621 (Aqua Regia) Meas	0.49	0.200	0.034	4.42	125	3	19		< 20		< 2	< 10	13	< 10	9	64
Oreas 621 (Aqua Regia) Cert	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
OREAS 255 (Fire Assay) Meas																
OREAS 255 (Fire Assay) Cert																
1123258 Orig	0.29	0.026	0.018	0.06	< 2	< 1	5	< 0.01	< 20	< 1	< 2	< 10	7	< 10	2	3
1123258 Dup	0.28	0.026	0.017	0.05	< 2	< 1	5	< 0.01	< 20	< 1	< 2	< 10	6	< 10	2	3
235505 Orig																
235505 Dup																
Method Blank																
Method Blank	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1



Date Submitted: 04-Sep-19
Invoice No.: A19-11720
Invoice Date: 11-Sep-19
Your Reference: Far Lake

White Metal Resources
684 Squier Street
Thunder Bay ON P7B 4A8
Canada

ATTN: Mick Stares

CERTIFICATE OF ANALYSIS

33 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Table with 2 columns: Sample ID and Analytical Package. Row 1: 1A2-Tbay, QOP AA-Au (Au - Fire Assay AA). Row 2: 1E3-Tbay, QOP AquaGeo (Aqua Regia ICPOES).

REPORT A19-11720

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

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

CERTIFIED BY:

Handwritten signature of Emmanuel Esemé

Emmanuel Esemé, Ph.D.
Quality Control

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

Results

Activation Laboratories Ltd.

Report: A19-11720

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	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
Method Code	FA-AA	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
878051	74	1.0	< 0.5	4700	132	5	10	5	8	0.57	< 2	< 10	35	0.5	95	0.35	3	43	1.45	< 10	< 1	0.21	19
878052	80	1.1	< 0.5	6300	226	34	26	6	12	1.24	< 2	19	42	1.2	52	0.26	8	71	1.88	< 10	< 1	0.45	24
878053	355	1.9	< 0.5	8780	758	4	5	28	25	0.35	2	< 10	21	< 0.5	617	2.70	2	27	1.70	< 10	< 1	0.09	< 10
878054	12	0.5	< 0.5	3650	274	5	10	3	23	0.72	< 2	< 10	39	0.6	3	0.44	3	48	1.41	< 10	< 1	0.21	21
878055	43	0.9	< 0.5	8010	1790	6	24	5	15	1.38	< 2	< 10	26	0.9	23	3.98	7	60	3.15	< 10	< 1	0.17	< 10
878056	53	2.7	< 0.5	4170	126	1	10	3	8	0.51	< 2	< 10	73	< 0.5	7	0.18	2	59	2.64	< 10	< 1	0.13	< 10
878057	25	1.1	< 0.5	1610	179	< 1	14	3	14	0.97	2	< 10	138	0.7	< 2	0.53	4	77	1.98	< 10	< 1	0.20	13
878058	68	1.3	< 0.5	9600	736	2	5	2	6	0.43	10	< 10	54	< 0.5	< 2	1.73	3	36	1.96	< 10	< 1	0.15	< 10
878059	215	30.2	< 0.5	> 10000	401	1	12	14	62	0.20	10	< 10	< 10	< 0.5	< 2	0.93	< 1	12	17.8	< 10	< 1	0.03	< 10
878060	< 5	< 0.2	< 0.5	282	212	< 1	20	2	20	1.89	5	< 10	62	0.8	< 2	0.07	20	28	2.65	10	< 1	0.15	40
878061	< 5	< 0.2	< 0.5	1050	232	< 1	17	3	15	1.50	4	< 10	49	0.6	< 2	0.24	20	20	2.45	< 10	< 1	0.15	13
878062	13	1.3	< 0.5	5980	131	2	9	6	5	0.36	9	< 10	43	< 0.5	8	0.16	10	43	1.83	< 10	< 1	0.19	14
878063	25	0.8	< 0.5	3950	215	2	12	14	6	0.51	7	< 10	39	< 0.5	9	0.16	12	64	1.55	< 10	< 1	0.18	15
878064	31	0.9	< 0.5	4260	470	1	38	8	17	1.07	5	< 10	29	0.8	< 2	0.31	13	218	2.23	< 10	< 1	0.20	26
878065	< 5	< 0.2	< 0.5	872	84	1	2	3	4	0.24	< 2	< 10	56	< 0.5	< 2	0.14	1	19	0.82	< 10	< 1	0.19	33
878066	< 5	< 0.2	< 0.5	428	115	1	2	3	5	0.28	< 2	< 10	49	< 0.5	< 2	0.12	2	17	0.58	< 10	< 1	0.17	39
878067	< 5	< 0.2	< 0.5	143	70	1	1	3	4	0.18	4	< 10	57	< 0.5	< 2	0.06	2	18	0.65	< 10	< 1	0.15	31
878068	< 5	< 0.2	< 0.5	208	85	2	2	3	2	0.23	3	< 10	66	< 0.5	< 2	0.07	4	23	0.74	< 10	< 1	0.21	33
878069	22	0.5	< 0.5	2240	86	3	5	7	4	0.16	6	< 10	42	< 0.5	2	0.15	14	43	1.04	< 10	< 1	0.13	21
878070	37	0.6	< 0.5	3290	200	2	12	6	8	0.76	< 2	< 10	52	0.6	20	0.78	4	62	1.48	< 10	< 1	0.22	17
878071	12	0.2	< 0.5	1680	164	2	7	3	7	0.54	< 2	< 10	30	< 0.5	2	0.37	4	39	0.95	< 10	< 1	0.20	34
878072	127	1.5	< 0.5	5560	322	6	5	8	6	0.16	8	< 10	14	< 0.5	16	0.44	6	47	6.37	< 10	< 1	0.03	< 10
878073	< 5	0.4	< 0.5	2060	175	2	4	3	3	0.23	< 2	< 10	43	< 0.5	< 2	0.75	1	36	0.80	< 10	< 1	0.16	17
878074	< 5	0.6	< 0.5	888	100	2	4	3	3	0.20	5	< 10	47	< 0.5	< 2	0.12	4	45	1.24	< 10	< 1	0.18	< 10
878075	12	0.8	< 0.5	1720	139	2	6	4	3	0.17	7	< 10	48	< 0.5	< 2	0.30	5	34	1.05	< 10	< 1	0.13	16
878076	7	< 0.2	< 0.5	551	192	3	10	< 2	7	0.48	< 2	< 10	36	< 0.5	< 2	0.40	3	54	1.11	< 10	< 1	0.13	17
878077	< 5	0.2	< 0.5	945	96	2	4	< 2	4	0.37	< 2	< 10	37	< 0.5	< 2	0.18	2	30	0.71	< 10	< 1	0.15	19
878078	5	1.0	< 0.5	4370	204	1	35	< 2	18	1.01	< 2	< 10	62	0.9	< 2	0.18	11	138	1.97	< 10	< 1	0.24	< 10
878079	23	2.2	< 0.5	> 10000	107	2	16	4	6	0.26	33	< 10	20	< 0.5	3	0.09	28	48	3.29	< 10	< 1	0.16	11
878080	8	0.6	< 0.5	3080	285	2	14	4	8	0.58	4	< 10	39	< 0.5	< 2	0.32	10	46	1.46	< 10	< 1	0.15	20
878101	< 5	< 0.2	< 0.5	13	66	3	1	< 2	5	0.08	< 2	< 10	26	< 0.5	< 2	0.01	< 1	43	0.54	< 10	< 1	0.10	< 10
878102	< 5	< 0.2	< 0.5	8	211	2	9	6	28	1.06	< 2	< 10	39	0.7	< 2	0.12	4	24	1.35	< 10	< 1	0.33	45
878103	< 5	< 0.2	< 0.5	27	501	2	38	10	64	1.90	< 2	< 10	65	< 0.5	< 2	0.19	12	102	3.07	10	< 1	1.16	29

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
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
878051	0.28	0.035	0.034	0.60	< 2	3	5	< 0.01	< 20	< 1	< 2	< 10	24	< 10	4	9
878052	0.66	0.044	0.062	0.71	< 2	5	6	0.01	< 20	< 1	< 2	< 10	40	< 10	7	13
878053	0.29	0.029	0.013	0.89	< 2	1	10	< 0.01	< 20	2	< 2	< 10	9	< 10	5	4
878054	0.41	0.044	0.040	0.32	< 2	3	6	< 0.01	< 20	1	< 2	< 10	26	< 10	6	13
878055	1.21	0.029	0.031	0.75	< 2	4	10	0.02	< 20	2	< 2	< 10	36	< 10	7	9
878056	0.38	0.046	0.032	0.39	< 2	2	6	< 0.01	< 20	< 1	< 2	< 10	20	< 10	4	10
878057	0.80	0.055	0.044	0.17	< 2	4	9	< 0.01	< 20	< 1	< 2	< 10	36	< 10	7	13
878058	0.19	0.035	0.028	0.89	< 2	3	10	< 0.01	< 20	< 1	< 2	< 10	14	< 10	5	6
878059	0.21	0.021	0.062	12.3	5	< 1	4	< 0.01	< 20	4	< 2	< 10	11	< 10	3	6
878060	2.39	0.050	0.026	0.10	< 2	5	8	< 0.01	< 20	< 1	< 2	< 10	62	< 10	8	37
878061	1.79	0.043	0.040	0.18	< 2	4	8	< 0.01	< 20	< 1	< 2	< 10	45	< 10	10	27
878062	0.15	0.037	0.030	0.83	< 2	1	6	< 0.01	< 20	< 1	< 2	< 10	10	< 10	6	19
878063	0.31	0.041	0.051	0.59	< 2	2	7	< 0.01	< 20	< 1	< 2	< 10	21	< 10	7	15
878064	1.06	0.042	0.059	0.52	< 2	5	7	0.02	< 20	2	< 2	< 10	47	< 10	6	16
878065	0.05	0.058	0.019	0.05	< 2	< 1	9	< 0.01	< 20	< 1	< 2	< 10	3	< 10	6	24
878066	0.11	0.062	0.022	0.02	< 2	< 1	9	< 0.01	< 20	< 1	< 2	< 10	6	< 10	8	26
878067	0.03	0.061	0.019	0.06	< 2	< 1	8	< 0.01	< 20	2	< 2	< 10	4	< 10	6	25
878068	0.02	0.060	0.016	0.06	< 2	< 1	9	< 0.01	< 20	3	< 2	< 10	4	< 10	6	21
878069	0.02	0.050	0.014	0.47	< 2	< 1	7	< 0.01	< 20	< 1	< 2	< 10	5	< 10	4	17
878070	0.46	0.049	0.031	0.27	< 2	3	8	0.01	< 20	< 1	< 2	< 10	29	< 10	6	20
878071	0.27	0.046	0.027	0.16	< 2	2	7	< 0.01	< 20	< 1	< 2	< 10	17	< 10	5	15
878072	0.06	0.023	0.006	3.23	3	< 1	5	< 0.01	< 20	3	< 2	< 10	13	< 10	2	4
878073	0.07	0.038	0.011	0.16	< 2	< 1	10	< 0.01	< 20	< 1	< 2	< 10	6	< 10	5	13
878074	0.05	0.026	0.008	0.10	< 2	< 1	5	< 0.01	< 20	2	< 2	< 10	10	< 10	3	7
878075	0.04	0.040	0.010	0.15	< 2	< 1	6	< 0.01	< 20	< 1	< 2	< 10	5	< 10	3	9
878076	0.34	0.038	0.014	0.06	< 2	1	7	< 0.01	< 20	< 1	< 2	< 10	11	< 10	3	8
878077	0.21	0.063	0.019	0.12	< 2	1	6	< 0.01	< 20	< 1	< 2	< 10	9	< 10	7	30
878078	0.95	0.045	0.058	0.52	< 2	4	8	0.03	< 20	< 1	< 2	< 10	45	< 10	10	19
878079	0.09	0.032	0.033	2.97	< 2	1	5	< 0.01	< 20	< 1	< 2	< 10	12	< 10	5	17
878080	0.40	0.078	0.016	0.41	< 2	3	8	0.01	< 20	< 1	< 2	< 10	19	< 10	5	15
878101	< 0.01	0.025	0.003	< 0.01	< 2	< 1	4	< 0.01	< 20	< 1	< 2	< 10	1	< 10	< 1	1
878102	0.44	0.045	0.054	< 0.01	< 2	1	8	< 0.01	< 20	4	< 2	< 10	11	< 10	5	9
878103	1.06	0.090	0.045	0.08	< 2	8	9	0.19	< 20	2	< 2	< 10	57	< 10	13	19

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	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
Method Code	FA-AA	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		0.3	< 0.5	74	1090	1	26	92	130	7.52	240	< 10	697	0.9	< 2	0.13	11	84	5.97	20	3	1.25	< 10
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
OREAS 922 (AQUA REGIA) Meas		0.9	< 0.5	2340	788	< 1	37	60	268	3.13	5		84	0.8	11	0.43	17	48	5.39	< 10		0.54	39
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
OREAS 923 (AQUA REGIA) Meas		1.7	< 0.5	4530	887	< 1	33	77	340	3.05	8		64	0.7	13	0.43	20	44	6.02	< 10		0.45	35
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
Oreas 96 (Aqua Regia) Meas		10.9		> 10000				86	433						7		44						
Oreas 96 (Aqua Regia) Cert		11.50		39100.00				100	448						27.9		49.2						
OREAS 220 (Fire Assay) Meas	886																						
OREAS 220 (Fire Assay) Cert	866																						
Oreas 621 (Aqua Regia) Meas		68.7	289	3610	542	14	25	> 5000	> 10000	1.81	83			0.6	7	1.72	29	29	3.35	10	6	0.39	20
Oreas 621 (Aqua Regia) Cert		68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93	0.333	19.4
OREAS 238 (Fire Assay) Meas	2950																						
OREAS 238 (Fire Assay) Cert	3030																						
878060 Orig	< 5																						
878060 Dup	< 5																						
878063 Orig		0.7	< 0.5	3870	213	1	12	14	6	0.50	7	< 10	39	< 0.5	6	0.15	12	62	1.54	< 10	< 1	0.18	15
878063 Dup		0.8	< 0.5	4030	217	2	12	14	6	0.52	7	< 10	39	< 0.5	12	0.16	12	67	1.56	< 10	< 1	0.18	15
878070 Orig	36																						
878070 Dup	38																						
878077 Orig		0.2	< 0.5	939	96	2	4	< 2	4	0.37	< 2	< 10	38	< 0.5	< 2	0.18	2	29	0.72	< 10	< 1	0.16	19
878077 Dup		0.2	< 0.5	950	95	2	4	2	3	0.37	< 2	< 10	37	< 0.5	< 2	0.18	2	30	0.71	< 10	< 1	0.15	19
878080 Orig	9																						
878080 Dup	7																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 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

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
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
GXR-6 Meas	0.46	0.087	0.037	0.01	4	20	29		< 20	< 1	< 2	< 10	183	< 10	5	6
GXR-6 Cert	0.609	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 922 (AQUA REGIA) Meas	1.55	0.037	0.068	0.37	2	4	17		< 20		< 2	< 10	39	< 10	24	22
OREAS 922 (AQUA REGIA) Cert	1.33	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 923 (AQUA REGIA) Meas	1.60		0.063	0.66	2	4	15		< 20		< 2	< 10	37	< 10	22	28
OREAS 923 (AQUA REGIA) Cert	1.43		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				4.10	6											
Oreas 96 (Aqua Regia) Cert				4.38	4.53											
OREAS 220 (Fire Assay) Meas																
OREAS 220 (Fire Assay) Cert																
Oreas 621 (Aqua Regia) Meas	0.49	0.185	0.035	4.46	125	3	18		< 20		< 2	< 10	14	< 10	9	63
Oreas 621 (Aqua Regia) Cert	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
OREAS 238 (Fire Assay) Meas																
OREAS 238 (Fire Assay) Cert																
878060 Orig																
878060 Dup																
878063 Orig	0.31	0.040	0.051	0.59	< 2	2	7	< 0.01	< 20	< 1	< 2	< 10	20	< 10	7	15
878063 Dup	0.32	0.043	0.052	0.60	< 2	2	7	< 0.01	< 20	< 1	< 2	< 10	21	< 10	7	15
878070 Orig																
878070 Dup																
878077 Orig	0.21	0.064	0.019	0.12	< 2	1	6	< 0.01	< 20	< 1	< 2	< 10	9	< 10	7	30
878077 Dup	0.21	0.063	0.019	0.12	< 2	1	6	< 0.01	< 20	< 1	< 2	< 10	9	< 10	7	29
878080 Orig																
878080 Dup																
Method Blank																
Method Blank																
Method Blank	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1



Date Submitted: 04-Sep-19
Invoice No.: A19-11720FinalB
Invoice Date: 19-Sep-19
Your Reference: Far Lake

White Metal Resources
684 Squier Street
Thunder Bay ON P7B 4A8
Canada

ATTN: Mick Stares

CERTIFICATE OF ANALYSIS

33 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Table with 2 columns: Sample ID and Analytical Package. Rows include 1A2-Tbay (QOP AA-Au) and 1E3-Tbay (QOP AquaGeo).

REPORT A19-11720FinalB

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Handwritten signature of Emmanuel Esemé

Emmanuel Esemé, Ph.D.
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

Analyte Symbol	Cu
Unit Symbol	%
Lower Limit	0.001
Method Code	ICP-OES
878059	22.0
878079	1.48

Analyte Symbol	Cu
Unit Symbol	%
Lower Limit	0.001
Method Code	ICP-OES
MP-1b Meas	3.07
MP-1b Cert	3.07
CPB-2 Meas	0.117
CPB-2 Cert	0.1213
CZN-4 Meas	0.411
CZN-4 Cert	0.403
PTC-1b Meas	7.80
PTC-1b Cert	7.97
CCU-1e Meas	22.9
CCU-1e Cert	22.9
Oreas 77b (4 Acid Digest) Meas	0.326
Oreas 77b (4 Acid Digest) Cert	0.343
Method Blank	< 0.001



Date Submitted: 29-Apr-19
Invoice No.: A19-05994
Invoice Date: 08-May-19
Your Reference: Far Lake

White Metal Resources
684 Squier Street
Thunder Bay ON P7B 4A8
Canada

ATTN: Mick Stares

CERTIFICATE OF ANALYSIS

2 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1C-OES-Tbay Fire Assay ICPOES (QOP Fire Assay Tbay)

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

REPORT **A19-05994**

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Notes:

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

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written in a cursive style with some loops and is positioned above a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

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

Results

Activation Laboratories Ltd.

Report: A19-05994

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	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
Method Code	FA-ICP	FA-ICP	FA-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
235721	< 2	< 5	< 5	< 0.2	< 0.5	263	801	< 1	405	< 2	43	0.65	< 2	17	157	< 0.5	< 2	1.51	86	544	6.29	< 10	< 1
235722	< 2	< 5	< 5	< 0.2	< 0.5	259	851	< 1	453	< 2	45	0.72	< 2	14	140	< 0.5	< 2	1.56	90	569	6.45	< 10	< 1

Results

Activation Laboratories Ltd.

Report: A19-05994

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
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
235721	0.10	< 10	7.59	0.114	0.017	0.24	4	12	30	0.05	< 20	2	< 2	< 10	42	< 10	2	5
235722	0.09	< 10	8.01	0.128	0.016	0.26	4	14	33	0.06	< 20	< 1	< 2	< 10	45	< 10	3	5

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	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
Method Code	FA-ICP	FA-ICP	FA-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
PK2 Meas	4710	5830	4700																				
PK2 Cert	4785	5918	4749																				
OREAS 904 (Aqua Regia) Meas				0.3	< 0.5	5950	453	2	35	8	25	1.80	94		239	7.8	4	0.04	95	24	6.32	< 10	
OREAS 904 (Aqua Regia) Cert				0.366	0.0580	6300	410	2.02	36.6	8.49	22.4	1.25	91.0		68.0	6.54	3.74	0.0404	82.0	17.5	6.40	3.40	
OREAS 922 (AQUA REGIA) Meas				0.9	0.6	2230	797	< 1	35	69	276	2.78	7		264	0.8	8	0.42	18	45	5.40	< 10	
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	
OREAS 923 (AQUA REGIA) Meas				2.2	0.5	4330	897	< 1	34	89	348	2.74	7		202	0.7	16	0.42	22	42	6.15	< 10	
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	
OREAS 520 (Aqua Regia) Meas						2800	2070	54	71	4	17	1.40	139			0.6	4	3.40	180	33	15.9	10	
OREAS 520 (Aqua Regia) Cert						2960	2280	62.0	73.0	5.22	20.7	1.56	152			0.540	2.90	3.84	196	37.4	15.74	13.7	
CDN-PGMS-27 Meas	5100	1950	1230																				
CDN-PGMS-27 Cert	4800	2000	1290.00																				
Oreas 621 (Aqua Regia) Meas				68.5	279	3440	571	14	26	> 5000	> 10000	1.73	78			0.6	4	1.19	31	31	3.64	10	4
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
Method Blank	< 2	< 5	< 5																				
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	22	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
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
PK2 Meas																		
PK2 Cert																		
OREAS 904 (Aqua Regia) Meas	0.88	40	0.20		0.099	0.04	3	5	19		< 20		< 2	< 10	33		21	
OREAS 904 (Aqua Regia) Cert	0.603	33.9	0.143		0.0950	0.0340	0.780	3.83	16.5		7.56		0.150	5.20	21.7		17.2	
OREAS 922 (AQUA REGIA) Meas	0.49	37	1.31	0.029	0.064	0.36	< 2	4	16		< 20		< 2	< 10	37	< 10	23	22
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	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 923 (AQUA REGIA) Meas	0.41	35	1.40		0.062	0.66	3	4	14		< 20		< 2	< 10	34	< 10	20	29
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		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 520 (Aqua Regia) Meas	0.47	67	1.05	0.061	0.069	0.85	7	11	29	0.16	< 20	< 1	< 2	< 10	223	25	13	36
OREAS 520 (Aqua Regia) Cert	0.506	83.0	1.14	0.0520	0.0740	1.03	1.97	11.8	36.0	0.135	8.03	0.33	0.0900	14.9	247	29.6	14.3	28.0
CDN-PGMS-27 Meas																		
CDN-PGMS-27 Cert																		
Oreas 621 (Aqua Regia) Meas	0.38	18	0.45	0.177	0.036	4.19	125	3	17		< 20		< 2	< 10	13	< 10	9	78
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
Method Blank																		
Method Blank	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1



Date Submitted: 21-May-19
Invoice No.: A19-06818
Invoice Date: 31-May-19
Your Reference: Far Lake

White Metal Resources
684 Squier Street
Thunder Bay ON P7B 4A8
Canada

ATTN: Mick Stares

CERTIFICATE OF ANALYSIS

11 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay Au - Fire Assay AA (QOP Fire Assay Tbay)
Code 1C-OES-Tbay Fire Assay ICPOES (QOP Fire Assay Tbay)
Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

REPORT **A19-06818**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

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

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written over a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

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

Results

Activation Laboratories Ltd.

Report: A19-06818

Analyte Symbol	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K
Unit Symbol	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
Lower Limit	5	5	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
Method Code	FA-ICP	FA-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
235506			< 0.2	< 0.5	2	84	< 1	1	5	6	0.38	< 2	< 10	19	< 0.5	< 2	0.05	< 1	8	4.39	< 10	< 1	0.21
235507			< 0.2	< 0.5	2	186	< 1	2	4	19	0.56	< 2	< 10	32	< 0.5	< 2	0.06	< 1	12	2.41	< 10	< 1	0.18
235508			< 0.2	< 0.5	< 1	181	< 1	8	7	23	0.82	5	< 10	40	< 0.5	< 2	0.05	2	22	2.65	< 10	< 1	0.26
235509			< 0.2	< 0.5	13	102	2	2	5	9	0.38	< 2	< 10	51	< 0.5	< 2	0.02	< 1	14	0.86	< 10	< 1	0.19

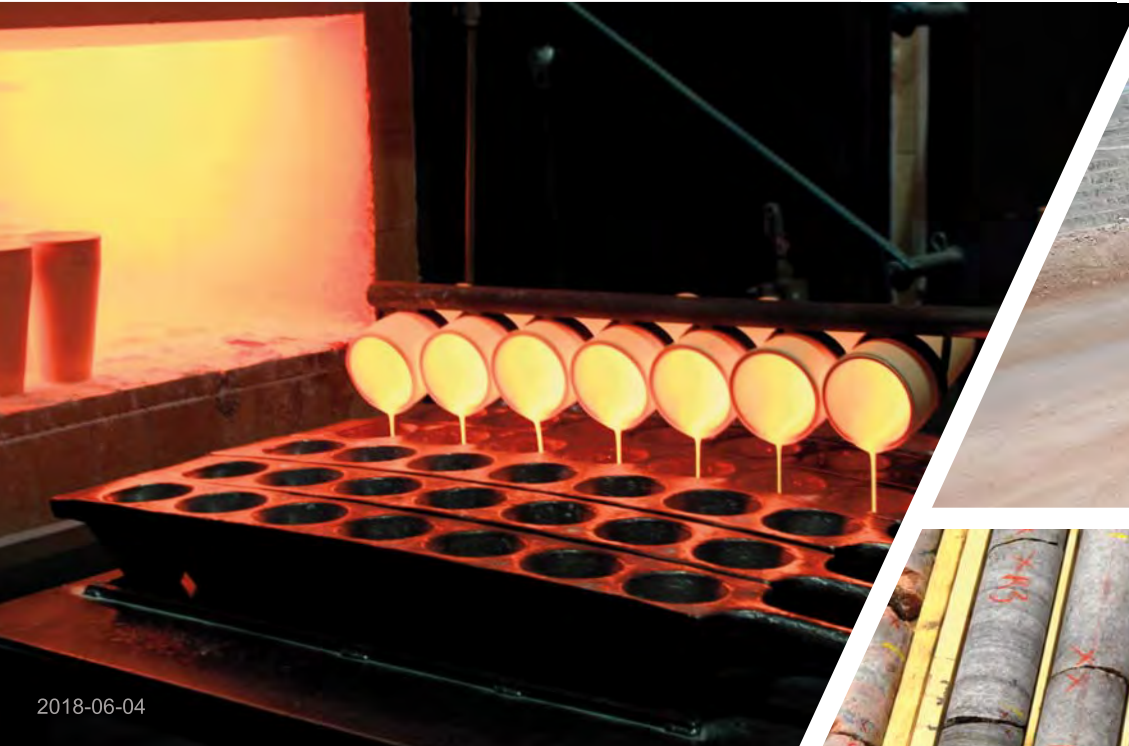
Analyte Symbol	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au
Unit Symbol	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Lower Limit	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	5
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-AA
235506	< 10	0.11	0.083	0.027	3.36	< 2	< 1	11	< 0.01	< 20	< 1	< 2	< 10	4	< 10	< 1	5	< 5
235507	24	0.22	0.086	0.027	0.83	< 2	< 1	8	< 0.01	< 20	< 1	< 2	< 10	8	< 10	4	30	< 5
235508	29	0.30	0.097	0.039	0.23	< 2	1	12	< 0.01	< 20	3	< 2	< 10	13	< 10	5	14	< 5
235509	20	0.15	0.039	0.007	< 0.01	< 2	< 1	5	< 0.01	< 20	< 1	< 2	< 10	3	< 10	2	15	< 5
235510	< 10	0.91	0.571	0.009	0.17	< 2	9	86	0.10	< 20	< 1	< 2	< 10	126	< 10	2	2	< 5
235511	15	0.42	0.022	0.014	0.01	< 2	1	4	< 0.01	< 20	< 1	< 2	< 10	11	< 10	2	8	< 5
235512	< 10	0.87	0.169	0.053	0.20	< 2	8	18	< 0.01	< 20	< 1	< 2	< 10	32	< 10	4	10	< 5
235513	36	0.38	0.085	0.040	0.26	< 2	2	10	< 0.01	< 20	< 1	< 2	16	6	< 10	8	24	< 5
235514	50	0.38	0.107	0.030	0.18	< 2	1	14	< 0.01	20	< 1	< 2	< 10	6	< 10	8	28	< 5
235515	25	0.27	0.092	0.053	0.33	< 2	< 1	11	< 0.01	< 20	< 1	< 2	< 10	4	< 10	7	18	< 5
235516	29	0.27	0.093	0.041	0.36	< 2	< 1	13	< 0.01	< 20	< 1	< 2	< 10	5	< 10	7	21	< 5

Analyte Symbol	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K
Unit Symbol	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
Lower Limit	5	5	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
Method Code	FA-ICP	FA-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
PK2 Meas	5460	4710																					
PK2 Cert	5918	4749																					
OREAS 904 (Aqua Regia) Meas			0.3	< 0.5	6460	454	2	36	8	25	1.94	95		72	7.7	4	0.05	90	25	6.47	< 10		0.96
OREAS 904 (Aqua Regia) Cert			0.366	0.0580	6300	410	2.02	36.6	8.49	22.4	1.25	91.0		68.0	6.54	3.74	0.0404	82.0	17.5	6.40	3.40		0.603
OREAS 922 (AQUA REGIA) Meas			0.9	< 0.5	2370	796	< 1	37	60	275	3.05	3		77	0.8	8	0.42	17	48	5.41	< 10		0.53
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
OREAS 923 (AQUA REGIA) Meas			1.6	< 0.5	4640	892	< 1	33	78	355	3.01	7		62	0.7	16	0.42	19	42	6.09	< 10		0.44
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
OREAS 222 (Fire Assay) Meas																							
OREAS 222 (Fire Assay) Cert																							
Oreas 621 (Aqua Regia) Meas			67.1	296	3680	550	13	27	> 5000	> 10000	1.82	78			0.6	< 2	1.68	29	31	3.50	10	4	0.40
Oreas 621 (Aqua Regia) Cert			68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93	0.333
OREAS 255 (Fire Assay) Meas																							
OREAS 255 (Fire Assay) Cert																							
235512 Orig			< 0.2	< 0.5	243	577	< 1	31	< 2	33	0.87	< 2	< 10	48	< 0.5	< 2	1.58	10	17	2.69	< 10	< 1	0.10
235512 Dup			< 0.2	< 0.5	234	568	< 1	31	< 2	33	0.91	< 2	< 10	46	< 0.5	< 2	1.57	11	17	2.66	< 10	< 1	0.11
235515 Orig																							
235515 Dup																							
Method Blank	< 5	< 5																					
Method Blank			< 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
Method Blank																							

Analyte Symbol	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au
Unit Symbol	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Lower Limit	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	5
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	FA-AA
PK2 Meas																		
PK2 Cert																		
OREAS 904 (Aqua Regia) Meas	41	0.22		0.099	0.04	3	5	20		< 20		< 2	< 10	33		21		
OREAS 904 (Aqua Regia) Cert	33.9	0.143		0.0950	0.0340	0.780	3.83	16.5		7.56		0.150	5.20	21.7		17.2		
OREAS 922 (AQUA REGIA) Meas	39	1.50	0.033	0.067	0.37	< 2	4	17		< 20		< 2	< 10	38	< 10	23	26	
OREAS 922 (AQUA REGIA) Cert	32.5	1.33	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 923 (AQUA REGIA) Meas	36	1.57		0.062	0.66	3	4	15		< 20		< 2	< 10	37	< 10	21	32	
OREAS 923 (AQUA REGIA) Cert	30.0	1.43		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 222 (Fire Assay) Meas																		1230
OREAS 222 (Fire Assay) Cert																		1220
Oreas 621 (Aqua Regia) Meas	20	0.49	0.200	0.034	4.42	125	3	19		< 20		< 2	< 10	13	< 10	9	64	
Oreas 621 (Aqua Regia) Cert	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0	
OREAS 255 (Fire Assay) Meas																		3970
OREAS 255 (Fire Assay) Cert																		4080
235512 Orig	< 10	0.88	0.161	0.053	0.20	< 2	8	16	< 0.01	< 20	< 1	< 2	< 10	32	< 10	4	10	
235512 Dup	< 10	0.87	0.177	0.052	0.20	< 2	8	20	< 0.01	< 20	1	< 2	< 10	31	< 10	4	10	
235515 Orig																		< 5
235515 Dup																		< 5
Method Blank																		
Method Blank	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1	
Method Blank																		< 5



Activation Laboratories Ltd.



2018-06-04

Schedule of Services and Fees Geochemistry - CDN 2018



www.actlabs.com

Sample Preparation Packages

To obtain meaningful analytical results, it is imperative that sample collection and preparation be done properly. Actlabs can advise on sampling protocol for your field program if requested. Once the samples arrive in the laboratory, Actlabs will ensure that they are prepared properly. As a routine practice with rock and core, the entire sample is crushed to a nominal -2 mm, mechanically split to obtain a representative sample and then pulverized to at least 95% -105 microns (μm). All of our steel mills are now mild steel and do not introduce Cr or Ni contamination. Quality of crushing and pulverization is routinely checked as part of our quality assurance program. Samples submitted in an unorganized fashion will be subject to a sorting surcharge and may substantially slow turnaround time. Providing an accurate detailed sample list by e-mail will also aid in improving turnaround time and for Quality Control purposes.

Rock, Core and Drill Cuttings

Code RX1	Crush (< 7 kg) up to 80% passing 2 mm, riffle split (250 g) and pulverize (mild steel) to 95% passing 105 μm included cleaner sand	\$11.50
Code RX1-ORE	Crush up to 90% passing 2 mm	add \$2.10
Code RX1+500	500 grams pulverized	add \$1.25
Code RX1+800	800 grams pulverized	add \$2.25
Code RX1+1000	1000 grams pulverized	add \$2.75
Code RX1-SD	Crush (< 7 kg) up to 80% passing 2 mm, rotary split (250 g) and pulverized (mild steel) to 95% passing 105 μm	\$10.75
Code RX1-SD-ORE	Crush up to 90% passing 2 mm	add \$2.10
Code RX3	Oversize charge per kilogram for crushing	\$1.25
Code RX4	Pulverization only (mild steel) (coarse pulp or crushed rock) (< 800 g)	\$7.25
Code RX5	Pulverize ceramic (100 g)	\$18.75
Code RX6	Hand pulverize small samples (agate mortar & pestle) (<5g)	\$18.75
Code RX7	Crush and split (< 5 kg)	\$5.50
Code RX8	Sample prep only surcharge, no analyses	\$4.75
Code RX9	Compositing (per composite) dry weight	\$2.75
Code RX10	Weight (kg) as received	\$2.25
Code RX11	Checking quality of pulps or rejects prepared by other labs and issuing report	\$10.00
Code RX12	Ball Mill preparation	on request
Code RX13	Rod Mill preparation	on request
Code RX14	Core cutting	on request
Code RX15	Special Preparation/Hour	\$68.25
Code RX16	Specific Gravity on Core	\$17.00
Code RX16-W	Specific Gravity (WAX) on friable samples	\$22.75
Code RX17	Specific Gravity on the pulp	\$17.00
Code RX17-GP	Specific Gravity on the pulp by gas pycnometer	\$22.75

Note: Larger sample sizes than listed above can be pulverized at additional cost.

Soils, Stream and Lake Bottom Sediments, and Heavy Minerals

Code S1	Drying (60°C) and sieving (-177 μm) save all portions	\$4.25
Code S1 DIS	Drying (60°C) and sieving (-177 μm), discard oversize	\$3.75
Code S1-230	Drying (60°C) and sieving (-63 μm), save oversize	\$5.75
Code S1-230 DIS	Drying (60°C) and sieving (-63 μm), discard oversize	\$5.50
Code S2	Lake bottom sediment preparation crush & sieve (-177 μm)	\$9.00
Code S3	Alternate size fractions and bracket sieving, add	\$2.75
Code S4	Selective Extractions or SGH drying (40°C) & sieving (-177 μm)	\$4.75
Code S5	Wet or damp samples submitted in plastic bags, add	\$2.10
Code S6	Separating -2 micron material	\$28.25
Code S7mi	Methylene iodide heavy mineral separation specific gravity can be customized (100 grams)	\$73.75
Code S7w	Sodium polytungstate heavy mineral separation specific gravity can be customized (100 grams)	\$73.75
Code S8	Sieve analysis (4 sieve sizes) coarser than 53 μm	\$40.00
Code S9	Particle size analysis (laser)	\$102.00

Our Sample Preparation pricing is all-inclusive including: sorting, drying, labeling, new reject bags, using cleaner sand between each sample and crushing samples up to 7 kg (for RX1 and RX1-SD).



Riffle Splitting



Sample Pulverizers

Sample Preparation

Sample Preparation Packages

Biogeochemical Samples

Code B1	Drying and blending humus	\$5.50
Code B2	Drying and macerating vegetation	\$6.75
Code B3	Dry ashing	\$10.00
Code B4	Washing vegetation	\$4.75
Code B5	Samples submitted in plastic bags, add	\$2.10

Special Digestion Procedures

Code MDI	Microwave digestion - closed vessel	\$46.00
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Sample Submission, Storage and Return

When submitting samples, please indicate on the Request for Analysis form if you require sample storage, disposal or if you require samples to be returned after analysis. For returns, please include all necessary shipping information e.g., courier, account number, etc. Return of samples is done at cost + 15%. The reject portion of samples prepared by Actlabs will be retained for a period of not more than 60 days from the date of final report. Pulps and rejects stored at the customers request will be subject to a storage charge (see sample submittal sheet for charges) billed quarterly. Irradiated material will be discarded after 30 days unless prior arrangements are made. Return of radioactive material requires a Nuclear Safety Commission licence. Cost per shipment of radioactive materials is \$200.00 plus shipping costs. Disposal of soil, sediment or vegetation samples, which have entered Canada under a CFIA permit, will incur a disposal cost for larger sample volumes.

All soil, sediment and vegetation coming from outside Canada require incineration prior to disposal under CFIA regulations. All pulps and rejects will be returned to the client at cost + 15%. Disposal costs are additional. Pulps and rejects will incur a storage fee after the free period listed.

RTRN	Return of all reject portions and/or pulps	At cost + 15%
INCIN	Incineration of soil, sediment and vegetation samples from outside Canada (for samples up to 0.5 kg; samples over 0.5 kg will have higher incineration costs)	\$0.50
H&R	Handling and retrieval of stored sample material	\$57.75/hour
DISP	Disposal of pulps and reject to landfill site	\$0.45
STORE 1	Monthly storage of reject after 60 days	\$0.30
STORE 2	Monthly storage of pulps after 90 days	\$0.15
STORE 3	Monthly storage of sieve rejects after 3 months	\$0.20

Gold and Silver Analyses

Gold and Silver Analyses - Geochem

Code	Method	Sample Weight (g)	Metric Range	Price
1A1	Au Fire Assay - INAA	30	1 - 20,000 ppb	\$20.50
1A2 *	Au Fire Assay - AA	30	5 - 5,000 ppb	\$17.00
1A2-50 *	Au Fire Assay - AA	50	5 - 5,000 ppb	\$19.50
1A2-ICP	Au Fire Assay - ICP-OES	30	2 - 30,000 ppb	\$18.00
1A2-ICP-50	Au Fire Assay - ICP-OES	50	2 - 30,000 ppb	\$20.25
1A2-ICPMS	Au Fire Assay - ICP-MS	30	0.5 - 30,000 ppb	\$26.25
1A6	Au BLEG - ICP-MS	1,000	0.1 - 10,000 ppb	\$45.50
1A8	Au Aqua Regia - ICP-MS	30	0.2 - 2,000 ppb	\$18.00
1E-Ag	Ag Aqua Regia - ICP-OES	0.5	0.2 - 100 ppm	\$6.75



Gold and Silver Analyses - Assay

Code	Method	Sample Weight (g)	Metric Range	Price
1A3-30	Au Fire Assay - Gravimetric	30	0.03 - 10,000 g/mT	\$22.75
1A3-50	Au Fire Assay - Gravimetric	50	0.02 - 10,000 g/mT	\$24.00
1A3-Ag (Au,Ag)	Au, Ag Fire Assay - Gravimetric	30	0.03 - 10,000 g/mT (Au) 3 - 10,000 g/mT (Ag)	\$26.25
1A4 **	Au Fire Assay - Metallic Screen	500	0.03 g/mT	\$79.50
1A4-1000 **	Au Fire Assay - Metallic Screen	1,000	0.03 g/mT	\$90.75
8-Ag	Ag Fire Assay - Gravimetric	30	3 - 10,000 g/mT	\$24.25

When submitting samples for Au and Ag analysis, or Au, Pt Pd and Rh analysis, please try to ensure you send two-times the listed weight.

Gold, Platinum, Palladium and Rhodium

Code	Method	Sample Weight (g)	Range (ppb)				Price
			Au	Pt	Pd	Rh	
1C-Exploration	Fire Assay - ICP-MS	30	2 - 30,000	1 - 30,000	1 - 30,000	\$22.75	
1C-EXP 2	Fire Assay - ICP-MS	30	1 - 30,000	0.5 - 30,000	0.5 - 30,000	\$25.00	
1C-research	Fire Assay - ICP-MS	30	1 - 30,000	0.1 - 30,000	0.1 - 30,000	\$36.25	
1C-Rhodium	Fire Assay - ICP-MS	30	-	-	-	5 - 10,000	\$34.25
1C-OES	Fire Assay - ICP-OES	30	2 - 30,000	5 - 30,000	5 - 30,000	\$19.50	
8 Au Pt Pd	Fire Assay - ICP-OES	30	0.001 - 1000 g/mT	0.001 - 1000 g/mT	0.001 - 1000 g/mT	\$51.25	

Platinum Group Elements

Code	Method	Sample Weight (g)	Range (ppb)								Price
			Os	Ir	Ru	Rh	Pt	Pd	Au	Re	
1B1	NiS Fire Assay - INAA	25	2	0.1	5	0.2	5 [†]	2	0.5	5	1-2 samples \$363.25 3+ samples \$181.75
1B2	NiS Fire Assay - ICP-MS	50	-	1	1	1	1	1	1	1	1-2 samples \$363.25 3+ samples \$181.75

Organic Sample Surcharge - \$1.25/sample for Fire Assay packages

Notes:

Use of 50 gram sample for fire assay may not provide optimum recovery.

For proper fire assay fusion, Actlabs may reduce the sample weights to 15 g or smaller at its discretion.

* Detection limit can be extended to 10,000 ppb if required. Please specify when required.

** A representative 500 gram or 1000 gram (or customized) sample split is sieved at 150 µm, with assays performed on the entire +150 µm fraction and two splits of the -150 µm fraction. It is important not to overpulverize the sample too finely, as tests have shown gold will plate out on the mill and be lost. When assays have been completed on the coarse and fine portions of the bulk sample, a final assay is calculated based on the weight of each fraction.

† Detection limits for Pt are increased with high Au/Pt ratios and limits for other elements will be affected by abnormally high Au, Sb and Cu content.

Samples with high Au can be reanalyzed by Code 1C exploration or research. Zn concentrates are not amenable to the nickel sulphide fire assay. Au results by Code 1B1 or 1B2 can be low by nickel sulphide fire assay. For accurate Au values, please request Code 1C-exploration.

Trace Element Geochemistry & Digestion Specific Assays

Aqua Regia "Partial" Digestion

This leach uses a combination of concentrated hydrochloric and nitric acids to leach sulphides, some oxides and some silicates. Mineral phases which are hardly (if at all) attacked include barite, zircon, monazite, sphene, chromite, gahnite, garnet, ilmenite, rutile and cassiterite. The balance of silicates and oxides are only slightly to moderately attacked, depending on the degree of alteration. Generally, but not always, most base metals and gold are usually dissolved.

NOTE: Results from acid digestions may be lab dependent or lab operator dependent. Actlabs has automated this aspect of digestion using a microprocessor designed hotbox to accurately reproduce digestion conditions every time.

NOTE: For Code Ultratrace 1, Code Ultratrace 2 and Code UT-1M, Au is semi-quantitative due to the small sample size.

Hg add-on by cold vapour FIMS

Code 1G (5 ppb) add \$10.25

Assays

Package	Code 8 - AR ICP-OES	Code 8 - AR ICP-MS
Ag	3 ppm	-
As	-	0.0004 - 1 %
Bi	-	0.0001 - 1 %
Cd	0.003 %	-
Co	0.003 %	0.0001 - 1 %
Cs	-	0.0001 - 1 %
Cu	0.001 %	0.0001 - 1 %
Fe	0.003 %	-
Ga	-	0.0001 - 1 %
Ge	-	0.0001 - 1 %
Hg	0.001 %	-
In	-	0.0001 - 1 %
Li	-	0.0001 - 1 %
Mo	-	0.0001 - 1 %
Ni	0.003 %	0.0001 - 1 %
Pb	0.003 %	0.0001 - 1 %
Re	-	0.0001 - 1 %
Se	-	0.0001 - 1 %
Sn	-	0.0003 - 1 %
Te	-	0.0001 - 1 %
Th	-	0.0001 - 1 %
Tl	-	0.0001 - 1 %
U	-	0.0001 - 1 %
W	-	0.0001 - 1 %
Zn	0.001 %	0.0001 - 1 %
One Element	\$13.25	\$17.00
Each Additional Element	\$2.25	\$2.25
All Elements	\$19.00	\$22.75

Package	ICP-OES		ICP-MS		ICP-OES + ICP-MS
	1E	1E3	UT-1M	Ultratrace 1	Ultratrace 2
Ag	0.2 - 100 ppm	0.2 - 100 ppm	0.1 - 100 ppm	0.002 - 100 ppm	0.002 - 100 ppm
Al	-	0.01 - 10 %	0.01 - 8 %	0.01 - 8 %	0.01 - 8 %
As	-	2 - 10,000 ppm	0.5 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
Au	-	-	0.5 - 1,000 ppb	0.5 - 10,000 ppb	0.5 - 10,000 ppb
B	-	10 - 10,000 ppm	20 - 2,000 ppm	1 - 5,000 ppm	1 - 5,000 ppm
Ba	-	10 - 10,000 ppm	1 - 10,000 ppm	0.5 - 6,000 ppm	0.5 - 6,000 ppm
Be	-	0.5 - 1,000 ppm	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
Bi	-	2 - 10,000 ppm	0.1 - 2,000 ppm	0.02 - 2,000 ppm	0.02 - 2,000 ppm
Ca	-	0.01 - 10 %	0.01 - 50 %	0.01 - 50 %	0.01 - 50 %
Cd	0.5 - 2,000 ppm	0.5 - 2,000 ppm	0.1 - 2,000 ppm	0.01 - 2,000 ppm	0.01 - 1,000 ppm
Ce	-	-	-	0.01 - 10,000 ppm	0.01 - 10,000 ppm
Co	-	1 - 10,000 ppm	0.1 - 5,000 ppm	0.1 - 5,000 ppm	0.1 - 5,000 ppm
Cr	-	1 - 10,000 ppm	1 - 10,000 ppm	1 - 10,000 ppm	1 - 10,000 ppm
Cs	-	-	-	0.02 - 500 ppm	0.02 - 500 ppm
Cu	1 - 10,000 ppm	1 - 10,000 ppm	0.2 - 10,000 ppm	0.2 - 10,000 ppm	0.2 - 10,000 ppm
Dy	-	-	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
Er	-	-	-	0.1 - 1,000 ppm	0.1 ppm
Eu	-	-	-	0.1 - 100 ppm	0.1 ppm
Fe	-	0.01 - 30 %	0.01 - 30 %	0.01 - 30 %	0.01 - 30 %
Ga	-	10 - 10,000 ppm	1 - 1,000 ppm	0.02 - 500 ppm	0.02 - 500 ppm
Gd	-	-	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
Ge	-	-	-	0.1 - 500 ppm	0.1 - 500 ppm
Hf	-	-	-	0.1 - 500 ppm	0.1 - 500 ppm
Hg	1 - 10,000 ppm	1 - 10,000 ppm	0.01 - 50 ppm	10 - 10,000 ppb	10 - 10,000 ppb
Ho	-	-	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
In	-	-	-	0.02 - 500 ppm	0.02 - 500 ppm
K	-	0.01 - 10 %	0.01 - 5 %	0.01 - 5 %	0.01 - 5 %
La	-	10 - 10,000 ppm	1 - 10,000 ppm	0.5 - 10,000 ppm	0.5 - 1,000 ppm
Li	-	-	-	0.1 - 10,000 ppm	0.1 - 10,000 ppm
Lu	-	-	-	0.1 - 100 ppm	0.1 - 100 ppm
Mg	-	0.01 - 25 %	0.01 - 10 %	0.01 - 10 %	0.01 - 10 %
Mn	2 - 100,000 ppm	5 - 100,000 ppm	1 - 10,000 ppm	1 - 10,000 ppm	1 - 10,000 ppm
Mo	2 - 10,000 ppm	1 - 10,000 ppm	0.1 - 10,000 ppm	0.01 - 10,000 ppm	0.01 - 10,000 ppm
Na	-	0.001 - 10 %	0.001 - 5 %	0.001 - 5 %	0.001 - 5 %
Nb	-	-	-	0.1 - 500 ppm	0.1 - 500 ppm
Nd	-	-	-	0.02 - 5,000 ppm	0.02 - 5,000 ppm
Ni	1 - 10,000 ppm	1 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
P	-	0.001 - 5 %	0.001 - 5 %	0.001 - 5 %	0.001 - 5 %
Pb	2 - 5,000 ppm	2 - 5,000 ppm	0.1 - 5,000 ppm	0.1 - 5,000 ppm	0.1 - 5,000 ppm
Pr	-	-	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
Rb	-	-	-	0.1 - 500 ppm	0.1 - 500 ppm
Re	-	-	-	0.001 - 100 ppm	0.001 - 100 ppm
S +	0.001 - 20 %	0.01 - 20 %	1 - 20 %	1 - 20 %	0.001 - 20 %
Sb	-	2 - 10,000 ppm	0.1 - 500 ppm	0.02 - 500 ppm	0.02 - 500 ppm
Sc	-	1 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
Se	-	-	0.5 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
Sm	-	-	-	0.1 - 100 ppm	0.1 - 100 ppm
Sn	-	-	-	0.05 - 200 ppm	0.05 - 200 ppm
Sr	-	1 - 10,000 ppm	1 - 5,000 ppm	0.5 - 5,000 ppm	0.5 - 5,000 ppm
Ta	-	-	-	0.05 - 50 ppm	0.05 - 50 ppm
Tb	-	-	-	0.1 - 100 ppm	0.1 - 100 ppm
Te	-	1 - 500 ppm	0.2 - 500 ppm	0.02 - 500 ppm	0.02 - 500 ppm
Th	-	20 - 10,000 ppm	0.1 - 200 ppm	0.1 - 200 ppm	0.1 - 200 ppm
Ti	-	0.01 - 10 %	0.001 - 10 %	0.001 - 10 %	0.01 - 10 %
Tl	-	2 - 10,000 ppm	0.1 - 500 ppm	0.02 - 500 ppm	0.02 - 500 ppm
Tm	-	-	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
U	-	10 - 10,000 ppm	-	0.1 - 10,000 ppm	0.1 - 10,000 ppm
V	-	1 - 10,000 ppm	2 - 1,000 ppm	1 - 1,000 ppm	1 - 1,000 ppm
W	-	10 - 200 ppm	0.1 - 200 ppm	0.1 - 200 ppm	0.1 - 200 ppm
Y	-	1 - 1,000 ppm	-	0.01 - 500 ppm	0.01 - 500 ppm
Yb	-	-	-	0.1 - 200 ppm	0.1 - 200 ppm
Zn	1 - 10,000 ppm	2 - 10,000 ppm	1 - 5,000 ppm	0.1 - 5,000 ppm	0.1 - 5,000 ppm
Zr	-	1 - 10,000 ppm	-	0.1 - 5,000 ppm	0.1 - 5,000 ppm
Price:	\$12.25	\$14.25	\$17.75	\$24.00	\$26.25

Extraction of each element by Aqua Regia Digestion is dependent on mineralogy + Sulphide sulphur and soluble sulphates are extracted

Trace Element Geochemistry & Digestion Specific Assays

4-Acid "Near Total" Digestion

This acid attack is the most vigorous digestion used in geochemistry. It will employ hydrochloric, nitric, perchloric and hydrofluoric acids. Even with this digestion, certain minerals (barite, gahnite, chromite, cassiterite, etc.) may only be partially dissolved or stable in solution. Other minerals including zircon, sphene and magnetite may not be totally dissolved. Most other silicates will be dissolved, however some elements will be erratically volatilized, including As, Sb, Cr, U and Au.

Near-Total digestion **cannot** be used to obtain accurate determinations of REE, Ta, Nb, As, Sb, Sn, Hg, Cr, Au and U.

NOTE: Results from acid digestions may be lab dependent or lab operator dependent. Actlabs has automated this aspect of digestion using a microprocessor designed hotbox to accurately reproduce digestion conditions every time.

Hg add-on by cold vapour FIMS

Code 1G (5 ppb) add \$10.25

Assays

Package	Code 8 - 4 Acid ICP-OES	Code 8 - 4 Acid ICP-MS
Ag	3 ppm	1 - 10,000 ppm
Bi	-	0.0001 - 1 %
Cd	0.003 %	0.0001 - 1 %
Co	0.003 %	0.0001 - 1 %
Cu	0.001 %	0.0001 - 1 %
Li	0.01 %	-
Mo	0.003 %	0.0001 - 1 %
Ni	0.003 %	0.0001 - 1 %
Pb	0.003 %	0.0001 - 1 %
Se	-	0.0001 - 1 %
Sn	-	0.0001 - 1 %
Tl	-	0.0001 - 1 %
U	-	0.0001 - 1 %
Zn	0.001 %	0.0001 - 1 %
One Element	\$14.75	\$17.00
Each Additional Element	\$2.25	\$2.25
All Elements	\$20.50	\$22.75

Package	ICP-OES	ICP-MS		ICP-OES + ICP-MS	
	1F2	UT-4M	Ultratrace 4	Ultratrace 6	ME-MS61
Ag	0.3 - 100 ppm	0.1 - 100 ppm	0.05 - 100 ppm	0.05 - 100 ppm	0.01 - 100 ppm
Al	0.01 - 50 %	0.01 - 20 %	0.01 - 10 %	0.01 - 10 %	0.01 - 50 %
As	3 - 5,000 ppm	1 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm	0.2 - 10,000 ppm
Au	-	100 - 2,000 ppb	-	-	-
B	-	-	20 - 6,000 ppm	-	-
Ba	7 - 1,000 ppm	1 - 10,000 ppm	1 - 5,000 ppm	1 - 5,000 ppm	10 - 10,000 ppm
Be	1 - 10,000 ppm	1 - 1,000 ppm	0.1 - 1,000 ppm	0.1 - 1,000 ppm	0.05 - 1,000 ppm
Bi	2 - 10,000 ppm	0.1 - 4,000 ppm	0.02 - 2,000 ppm	0.02 - 2,000 ppm	0.01 - 10,000 ppm
Ca	0.01 - 70 %	0.01 - 40 %	0.01 - 50 %	0.01 - 50 %	0.01 - 50 %
Cd	0.3 - 2,000 ppm	0.1 - 4,000 ppm	0.1 - 1,000 ppm	0.1 - 1,000 ppm	0.02 - 1,000 ppm
Ce	-	1 - 2,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm	0.01 - 500 ppm
Co	1 - 10,000 ppm	0.2 - 4,000 ppm	0.1 - 500 ppm	0.1 - 500 ppm	0.1 - 10,000 ppm
Cr	1 - 10,000 ppm	1 - 10,000 ppm	1 - 5,000 ppm	1 - 5,000 ppm	1 - 10,000 ppm
Cs	-	0.1 - 10,000 ppm	0.05 - 100 ppm	0.05 - 100 ppm	0.05 - 500 ppm
Cu	1 - 10,000 ppm	0.1 - 10,000 ppm	0.2 - 10,000 ppm	0.2 - 10,000 ppm	0.2 - 10,000 ppm
Dy	-	-	0.1 - 5,000 ppm	0.1 - 5,000 ppm	-
Er	-	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm	-
Eu	-	-	0.05 - 100 ppm	0.05 - 100 ppm	-
Fe	0.01 - 50 %	0.01 - 60 %	0.01 - 50 %	0.01 - 50 %	0.01 - 50 %
Ga	1 - 10,000 ppm	-	0.1 - 500 ppm	0.1 - 500 ppm	0.05 - 10,000 ppm
Gd	-	-	0.1 - 5,000 ppm	0.1 - 5,000 ppm	-
Ge	-	-	0.1 - 500 ppm	0.1 - 500 ppm	0.05 - 500 ppm
Hf	-	0.1 - 1,000 ppm	0.1 - 500 ppm	0.1 - 500 ppm	0.1 - 500 ppm
Hg	1	-	10 - 10,000 ppb	10 - 10,000 ppb	-
Ho	-	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm	-
In	-	-	0.1 - 100 ppm	0.1 - 100 ppm	0.005 - 500 ppm
K	0.01 - 10 %	0.01 - 10 %	0.01 - 5 %	0.01 - 5 %	0.01 - 10 %
La	-	0.1 - 2,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm	0.5 - 10,000 ppm
Li	1 - 10,000 ppm	0.1 - 2,000 ppm	0.5 - 400 ppm	0.5 - 400 ppm	0.2 - 10,000 ppm
Lu	-	-	0.1 - 100 ppm	0.1 - 100 ppm	-
Mg	0.01 - 50 %	0.01 - 30 %	0.01 - 50 %	0.01 - 50 %	0.01 - 50 %
Mn	1 - 100,000 ppm	1 - 10,000 ppm	1 - 10,000 ppm	1 - 10,000 ppm	5 - 100,000 ppm
Mo	1 - 10,000 ppm	0.1 - 4,000 ppm	0.05 - 10,000 ppm	0.1 - 10,000 ppm	0.05 - 10,000 ppm
Na	0.01 - 10 %	0.001 - 10 %	0.01 - 3 %	0.01 - 3 %	0.01 - 10 %
Nb	-	0.1 - 2,000 ppm	0.1 - 500 ppm	0.1 - 500 ppm	0.1 - 500 ppm
Nd	-	-	0.1 - 10,000 ppm	0.1 - 10,000 ppm	-
Ni	1 - 10,000 ppm	0.1 - 10,000 ppm	0.5 - 5,000 ppm	0.5 - 5,000 ppm	0.2 - 10,000 ppm
P	0.001 - 10 %	0.001 - 5 %	-	0.001 - 10 %	10 - 10,000 ppm
Pb	3 - 5,000 ppm	0.1 - 5,000 ppm	0.5 - 5,000 ppm	0.5 - 5,000 ppm	0.5 - 10,000 ppm
Pr	-	-	0.1 - 5,000 ppm	0.1 - 1,000 ppm	-
Rb	-	0.1 - 2,000 ppm	0.2 - 500 ppm	0.2 - 500 ppm	0.1 - 10,000 ppm
Re	-	-	0.001 - 100 ppm	0.001 - 100 ppm	0.002 - 50 ppm
S +	0.01 - 20 %	1 - 10 %	-	0.01 - 20 %	0.01 - 10 %
Sb	5 - 10,000 ppm	0.1 - 4,000 ppm	0.1 - 500 ppm	0.1 - 500 ppm	0.05 - 10,000 ppm
Sc	4 - 10,000 ppm	1 - 200 ppm	-	1 - 5,000 ppm	0.1 - 10,000 ppm
Se	-	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm	1 - 1,000 ppm
Sm	-	-	0.1 - 100 ppm	0.1 - 100 ppm	-
Sn	-	0.1 - 2,000 ppm	1 - 200 ppm	1 - 200 ppm	0.2 - 500 ppm
Sr	1 - 10,000 ppm	1 - 10,000 ppm	0.2 - 10,000 ppm	0.2 - 1,000 ppm	0.2 - 10,000 ppm
Ta	-	0.1 - 2,000 ppm	0.1 - 1,000 ppm	0.1 - 1,000 ppm	0.05 - 100 ppm
Tb	-	-	0.1 - 100 ppm	0.1 - 100 ppm	-
Te	2 - 10,000 ppm	-	0.1 - 500 ppm	0.1 - 500 ppm	0.05 - 500 ppm
Th	-	0.1 - 4,000 ppm	0.1 - 500 ppm	0.1 - 500 ppm	0.2 - 10,000 ppm
Ti	0.01 - 10 %	0.001 - 10 %	-	0.0005 - 10 %	0.005 - 10 %
Tl	5 - 10,000 ppm	0.05 - 10,000 ppm	0.05 - 500 ppm	0.05 - 500 ppm	0.02 - 10,000 ppm
Tm	-	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm	-
U	10 - 10,000 ppm	0.1 - 4,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
V	2 - 10,000 ppm	4 - 10,000 ppm	1 - 10,000 ppm	1 - 1,000 ppm	1 - 10,000 ppm
W	5 - 10,000 ppm	0.1 - 200 ppm	0.1 - 200 ppm	0.1 - 200 ppm	0.1 - 10,000 ppm
Y	1 - 1,000 ppm	0.1 - 2,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 500 ppm
Yb	-	-	0.1 - 5,000 ppm	0.1 - 5,000 ppm	-
Zn	1 - 10,000 ppm	1 - 10,000 ppm	0.2 - 10,000 ppm	0.2 - 10,000 ppm	2 - 10,000 ppm
Zr	5 - 10,000 ppm	0.1 - 2,000 ppm	1 - 5,000 ppm	1 - 5,000 ppm	0.5 - 500 ppm
Price:	\$20.50	\$21.25	\$26.25	\$36.25	\$30.75

Extraction of each element by 4-Acid Digestion is dependent on mineralogy
+ Sulphide sulphur and soluble sulphates are extracted

Trace Element Geochemistry & Digestion Specific Assays

Peroxide "Total" Fusion

Peroxide Fusions: Sodium peroxide fusion will result in a total metal recovery. It is effective for the decomposition of sulphides and refractory minerals. For nickel sulphide deposits this is the preferred method. This method is not suitable if sodium is required. Code 8 4-Acid is recommended if sodium is required.



ICP-OES+ICP-MS	
Package	Ultratrace 7
Al	0.01 - 25 %
As	5 - 10,000 ppm
B	10 - 10,000 ppm
Ba	3 - 10,000 ppm
Be	3 - 5,000 ppm
Bi	2 - 5,000 ppm
Ca	0.01 - 40 %
Cd	2 - 5,000 ppm
Ce	0.8 - 5,000 ppm
Co	0.2 - 5,000 ppm
Cr	30 - 10,000 ppm
Cs	0.1 - 5,000 ppm
Cu	2 - 10,000 ppm
Dy	0.3 - 5,000 ppm
Er	0.1 - 5,000 ppm
Eu	0.1 - 1,000 ppm
Fe	0.05 - 30 %
Ga	0.2 - 5,000 ppm
Gd	0.1 - 5,000 ppm
Ge	0.7 - 5,000 ppm
Hf	10 - 5,000 ppm
Ho	0.2 - 1,000 ppm
In	0.2 - 1,000 ppm
K	0.1 - 25 %
La	0.4 - 10,000 ppm
Li	3 - 10,000 ppm
Mg	0.01 - 30 %
Mn	3 - 10,000 ppm
Mo	1 - 10,000 ppm
Nb	2.4 - 5,000 ppm
Nd	0.4 - 5,000 ppm
Ni	10 - 10,000 ppm
Pb	0.8 - 5,000 ppm
Pr	0.1 - 1,000 ppm
Rb	0.4 - 5,000 ppm
S +	0.01 - 25 %
Sb	2 - 5,000 ppm
Se	0.8 - 5,000 ppm
Si	0.01 - 30 %
Sm	0.1 - 1,000 ppm
Sn	0.5 - 10,000 ppm
Sr	3 - 10,000 ppm
Ta	0.2 - 10,000 ppm
Tb	0.1 - 1,000 ppm
Te	6 - 10,000 ppm
Th	0.1 - 1,000 ppm
Ti	0.01 - 25 %
Tl	0.1 - 1,000 ppm
Tm	0.1 - 1,000 ppm
U	0.1 - 10,000 ppm
V	5 - 10,000 ppm
W	0.7 - 5,000 ppm
Y	0.1 - 1,000 ppm
Yb	0.1 - 1,000 ppm
Zn	25 - 10,000 ppm
Price:	\$45.50

Assays

Package	ICP-OES	ICP-MS
	8-Peroxide ICP-OES	8-Peroxide ICPMS/ICP
Al	0.01 %	0.01 %
As	0.01 - 10 %	0.001 - 10 %
Be	0.001 %	0.001 %
Bi	-	0.001 %
Ca	0.01 %	0.01 %
Co	0.002 %	0.001 %
Cr	0.01 %	0.01 %
Cs	-	0.001 %
Cu	0.005 %	0.001 %
Fe	0.05 %	0.05 %
Ga	-	0.001 %
Ge	-	0.001 %
In	-	0.001 %
K	0.1 %	0.1 %
Li	0.01 %	0.001 %
Mg	0.01 %	0.01 %
Mn	0.01 %	0.01 %
Mo	-	0.001 %
Nb	-	0.001 %
Ni	0.005 %	0.001 %
Pb	0.01 %	0.001 %
Re	-	0.001 %
S	0.01 %	0.01 %
Sb	0.01 %	0.002 %
Se	-	0.001 %
Si	0.01 - 47 %	0.01 - 47 %
Sn	-	0.001 %
Ta	-	0.001 %
Te	-	0.001 %
Th	-	0.001 %
Ti	0.01 %	0.01 %
Tl	-	0.001 %
U	-	0.001 %
W	0.005 %	0.001 %
Zn	0.01 %	0.001 %
One Element	\$18.00	\$25.75
Each Additional Element	\$3.50	\$3.50
All Elements	\$28.25	\$36.25

Notes:

For concentrates, titration may be applicable. Please inquire.
For Code 8 - Peroxide ICP-OES - for As above 10%, analysis by INAA assay is recommended.

Hg add-on by cold vapour FIMS

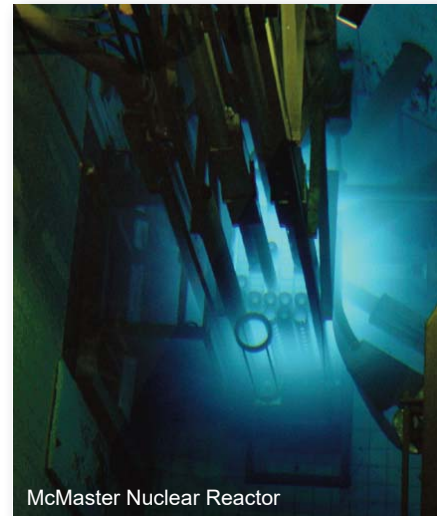
Code 1G (5 ppb)	add \$10.25
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Trace Element Geochemistry & Digestion Specific Assays

INAA

INAA							
1D		1D Enhanced		5B - Other Elements		5S - Short Lived Isotopes	
Ag	5 - 100,000 ppm	Ag	5 - 100,000 ppm	As	1 - 10,000 ppm	Al	1 - 100,000 ppm
As	2 - 10,000 ppm	As	0.5 - 10,000 ppm	Au	5 - 30,000 ppb	Br	5 - 10,000 ppm
Au	5 - 30,000 ppb	Au	2 - 30,000 ppb	Ba	100 - 100,000 ppm	Cl	100 - 100,000 ppm
Ba	100 - 500,000 ppm	Ba	50 - 500,000 ppm	Br	0.5 - 1,000 ppm	Cu	5 - 2,500 ppm
Br	1 - 1,000 ppm	Br	0.5 - 1,000 ppm	Ce	3 - 10,000 ppm	Dy	0.5 - 5,000 ppm
Ca	1 - 50 %	Ca	1 - 50 %	Co	0.5 - 10,000 ppm	Ga	5 - 10,000 ppm
Ce	3 - 10,000 ppm	Ce	3 - 10,000 ppm	Cr	1 - 100,000 ppm	I	0.5 - 5,000 ppm
Co	5 - 5,000 ppm	Co	1 - 5,000 ppm	Cs	0.5 - 10,000 ppm	In	0.1 - 5,000 ppm
Cr	10 - 100,000 ppm	Cr	5 - 100,000 ppm	Eu	0.2 - 2,000 ppm	Mg	0.05 - 50 %
Cs	2 - 10,000 ppm	Cs	1 - 10,000 ppm	Fe	0.01 - 75 %	Mn	0.1 - 10,000 ppm
Eu	0.2 - 2,000 ppm	Eu	0.2 - 2,000 ppm	Hf	0.5 - 500 ppm	Na	50 - 200,000 ppm
Fe	0.02 - 75 %	Fe	0.01 - 75 %	La	0.1 - 10,000 ppm	Re	1 - 5,000 ppm
Hf	1 - 500 ppm	Hf	1 - 500 ppm	Lu	0.05 - 1,000 ppm	Ti	50 - 100,000 ppm
Hg	1 - 1,000 ppm	Hg	1 - 1,000 ppm	Mo	2 - 10,000 ppm	V	0.1 - 10,000 ppm
Ir	5 - 10,000 ppb	Ir	5 - 10,000 ppb	Na	100 - 100,000 ppm	One Element	\$45.50
La	1 - 10,000 ppm	La	0.5 - 10,000 ppm	Nd	5 - 10,000 ppm	Each Additional	\$8.00
Lu	0.05 - 1,000 ppm	Lu	0.05 - 1,000 ppm	Rb	20 - 10,000 ppm	Element	
Mo	5 - 10,000 ppm	Mo	1 - 10,000 ppm	Sb	0.1 - 10,000 ppm		
Na	0.05 - 10 %	Na	0.01 - 10 %	Sc	0.1 - 200 ppm		
Nd	5 - 10,000 ppm	Nd	5 - 10,000 ppm	Se	2 - 10,000 ppm		
Ni	50 - 10,000 ppm	Ni	20 - 10,000 ppm	Sm	0.01 - 10,000 ppm		
Rb	30 - 10,000 ppm	Rb	15 - 10,000 ppm	Ta	0.5 - 10,000 ppm		
Sb	0.2 - 10,000 ppm	Sb	0.1 - 10,000 ppm	Th	0.2 - 10,000 ppm		
Sc	0.1 - 200 ppm	Sc	0.1 - 200 ppm	U	0.1 - 10,000 ppm		
Se	5 - 10,000 ppm	Se	3 - 10,000 ppm	W	2 - 10,000 ppm		
Sm	0.1 - 10,000 ppm	Sm	0.1 - 10,000 ppm	Yb	0.2 - 1,000 ppm		
Sn	0.05 - 10 %	Sn	0.02 - 10 %				
Sr	0.1 - 40 %	Sr	0.05 - 40 %	One Element	\$22.50		
Ta	1 - 10,000 ppm	Ta	0.5 - 10,000 ppm	Each Additional	\$2.75		
Tb	0.5 - 1,000 ppm	Tb	0.5 - 1,000 ppm	Element			
Th	0.5 - 10,000 ppm	Th	0.2 - 10,000 ppm				
U	0.5 - 10,000 ppm	U	0.5 - 10,000 ppm				
W	4 - 10,000 ppm	W	1 - 10,000 ppm				
Yb	0.2 - 1,000 ppm	Yb	0.2 - 1,000 ppm				
Zn	50 - 100,000 ppm	Zn	50 - 100,000 ppm				
Price:	\$24.00	Price:	\$27.25				

INAA: Instrumental Neutron Activation Analysis - Samples are encapsulated and irradiated in a nuclear reactor. After a suitable decay, samples are measured for the emitted gamma ray fingerprint. INAA is very good for Au, Co, As, Sb, W, Ta, U, Th, Cs, In, Re, Cl and lower levels of most LREE.



Pressed Pellet XRF

XRF	
4C1	
Ba	* 5 - 10,000 ppm
Co	** 5 - 1,000 ppm
Cr	** 5 - 10,000 ppm
Cu	** 5 - 2,500 ppm
Ga	* 5 - 10,000 ppm
Nb	* 1 - 10,000 ppm
Ni	** 4 - 4,000 ppm
Pb	** 5 - 1,000 ppm
Rb	* 2 - 10,000 ppm
Sn	5 - 10,000 ppm
Sr	* 2 - 10,000 ppm
V	** 5 - 10,000 ppm
Y	* 2 - 10,000 ppm
Zn	** 5 - 1,000 ppm
Zr	* 5 - 10,000 ppm
One Element	\$12.50
Each Additional Element	\$4.00
* lot	\$24.00
** lot	\$24.00



Hg add-on by cold vapour FIMS

Code 1G (5 ppb) add \$10.25

Trace Element Geochemistry & Digestion Specific Assays

Multi-Method Analyses

4-Acid "Near Total" Digestion + Total Determinations of Resistive Elements by INAA

Package	INAA+ICP-OES	INAA, ICP-OES, ICP-MS	INAA+ICP-MS
	1H	Ultratrace 3	Ultratrace 5
Ag	0.3 - 10,000 ppm	0.05 - 10,000 ppm	0.05 - 100,000 ppm
Al	0.01 -50 %	0.01 - 50 %	-
As	0.5 - 10,000 ppm	0.5 - 10,000 ppm	0.5 - 10,000 ppm
Au	2 - 30,000 ppb	2 - 30,000 ppb	2 - 30,000 ppb
Ba	50 - 500,000 ppm	1 - 100,000ppm	1 - 100,000 ppm
Be	1 - 10,000 ppm	0.1 - 1,000 ppm	0.1 - 1,000 ppm
Bi	2 -10,000 ppm	0.02 - 10,000 ppm	0.02 - 2,000 ppm
Br	0.5 -5,000 ppm	0.5 - 5,000 ppm	0.5 - 5,000 ppm
Ca	0.01 - 70 %	0.01 - 70 %	0.01 - 50 %
Cd	0.3 - 2,000 ppm	0.1 - 2,000 ppm	0.1 - 1,000 ppm
Ce	3 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
Co	1 - 5,000 ppm	1 - 5,000 ppm	0.1 - 5,000 ppm
Cr	2 - 100,000 ppm	1 - 10,000 ppm	1 - 100,000 ppm
Cs	1 - 10,000 ppm	0.05 - 5,000 ppm	0.05 - 5,000 ppm
Cu	1 - 10,000 ppm	0.2 - 10,000 ppm	0.2 - 10,000 ppm
Dy	-	0.1 - 5000 ppm	0.1 - 5000 ppm
Er	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
Eu	0.2 - 10,000 ppm	0.05 - 1,000 ppm	0.05 - 100 ppm
Fe	0.01 - 70 %	0.01 - 70 %	0.01 - 50 %
Ga	-	0.1 - 500 ppm	0.1 - 500 ppm
Gd	-	0.1 - 500 ppm	0.1 - 5,000 ppm
Ge	-	0.1 - 500 ppm	0.1 - 500 ppm
Hf	1 -5,000 ppm	0.1 - 5,000 ppm	1 - 5,000 ppm
Hg	1 - 10,000 ppm	10 - 10,000 ppb	10 - 10,000 ppb
Ho	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
In	-	0.1 - 100 ppm	0.1 - 100 ppm
Ir	5 - 10,000 ppb	5 - 10,000 ppb	-
K	0.01 - 10 %	0.01 - 10 %	0.01 - 5 %
La	0.5 - 10,000 ppm	0.5 - 10,000 ppm	0.1 - 10,000 ppm
Li	1 - 10,000 ppm	0.5 - 10,000 ppm	0.5 - 400 ppm
Lu	0.05 - 10,000 ppm	0.1 - 100 ppm	0.1 - 100 ppm
Mg	0.01 - 50 %	0.01 - 50 %	0.01 - 10 %
Mn	1 - 100,000 ppm	1 - 100,000 ppm	1 - 10,000 ppm
Mo	1 - 10,000 ppm	0.2 - 10,000 ppm	0.05 - 10,000 ppm
Na	0.01 - 50 %	0.01 - 20 %	0.01 - 20 %
Nb	-	0.1 - 500 ppm	0.1 - 500 ppm
Nd	5 - 10,000 ppm	0.01 - 10,000 ppm	0.1 - 10,000 ppm
Ni	1 - 100,000 ppm	0.5 - 100,000 ppm	0.5 - 100,000 ppm
P	0.001 - 10 %	0.001 - 10 %	-
Pb	3 - 5,000 ppm	0.5 - 5,000 ppm	0.5 - 5,000 ppm
Pr	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
Rb	15 -10,000 ppm	0.2 - 5,000 ppm	0.2 - 5,000 ppm
Re	-	0.001 - 100 ppm	0.001 - 100 ppm
S +	0.01 - 20 %	0.01 - 20 %	-
Sb	0.1 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
Sc	0.1 - 1,000 ppm	0.1 - 1,000 ppm	0.1 - 1,000 ppm
Se	3 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
Sm	0.1 - 10,000 ppm	0.1 - 100 ppm	0.1 - 100 ppm
Sn	0.02 - 20 %	1 - 200 ppm	1 - 200 ppm
Sr	1 - 10,000 ppm	0.2 - 1,000 ppm	0.2 - 1,000 ppm
Ta	0.5 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
Tb	0.5 - 10,000 ppm	0.1 - 5,000 ppm	0.1 - 100 ppm
Te	-	0.02 - 500 ppm	0.1 - 500 ppm
Th	0.2 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
Ti	0.01 - 10 %	0.01 - 10 %	-
Tl	-	0.05 - 500 ppm	0.05 - 500 ppm
Tm	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
U	0.5 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
V	2 - 10,000 ppm	2 - 10,000 ppm	1 - 1,000 ppm
W	1 - 10,000 ppm	1 - 10,000 ppm	1 - 10,000 ppm
Y	1 - 1,000 ppm	0.01 - 10,000 ppm	0.1 - 10,000 ppm
Yb	0.2 - 10,000 ppm	0.1 - 5,000 ppm	0.1 - 5,000 ppm
Zn	1 - 100,000 ppm	0.5 - 100,000 ppm	0.5 - 100,000 ppm
Zr	-	1 - 5,000 ppm	1 - 5,000 ppm
Price:	\$34.00	\$51.25	\$38.50

Extraction of each element by 4-Acid Digestion is dependent on mineralogy + Sulphide sulphur and soluble sulphates are extracted

Aqua Regia "Partial" Digestion + Total Determinations of Resistive Elements by INAA

Geochemical Exploration for Epithermal Deposits

Package	INAA+ICP-OES	INAA, ICP-OES, ICP-MS
	Code 1EPI	Code 1EPI/MS
Ag	0.2 - 10,000 ppm	0.2 - 10,000 ppm
As	2 - 10,000 ppm	2 - 10,000 ppm
Au	5 - 30,000 ppb	5 - 30,000 ppb
Ba	50 - 100,000 ppm	100 - 100,000 ppm
Bi	-	0.1 - 1,000 ppm
Ca	-	0.01 - 50 %
Cd	0.5 - 5,000 ppm	0.5 - 5,000 ppm
Cs	-	2 - 10,000 ppm
Cu	1 - 10,000 ppm	1 - 10,000 ppm
Fe	0.02 - 75%	0.02 - 75 %
Ga	-	1 - 10,000 ppm
Ge	-	0.1 - 1,000 ppm
Hg	1 - 10,000 ppm	0.01 - 1,000 ppm
K	-	0.01 - 20 %
Mn	2 - 20,000 ppm	2 - 20,000 ppm
Mo	2 - 10,000 ppm	2 - 10,000 ppm
Na	-	0.01 - 50 %
Ni	1 - 10,000 ppm	1 - 10,000 ppm
Pb	2 - 5,000 ppm	2 - 5,000 ppm
S +	0.001 - 20 %	0.001 - 20 %
Sb	0.2 - 10,000 ppm	0.2 - 10,000 ppm
Se	-	0.1 - 1,000 ppm
Te	-	0.1 - 1,000 ppm
Tl	-	0.1 - 1,000 ppm
W	4 - 10,000 ppm	4 - 10,000 ppm
Zn	1 - 10,000 ppm	1 - 10,000 ppm
Price:	\$27.50	\$37.50

Extraction of each element by Aqua Regia is dependent on mineralogy

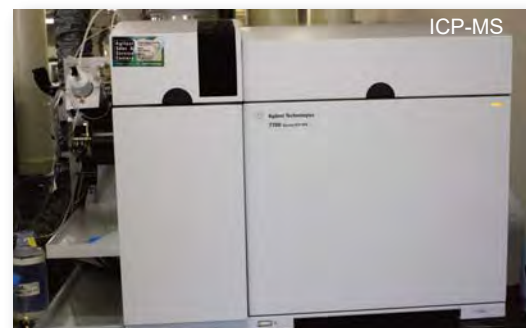
Bold elements are reported by INAA (total elements)

Hg add-on by cold vapour FIMS

Code 1G (5 ppb) add \$10.25

ICP-OES and ICP-MS analyses by 4-acid (hydrochloric, nitric, perchloric and hydrofluoric) digestion are "near total" digestions. INAA analysis yields total metals.

NOTE: Results from acid digestions may be lab dependent or lab operator dependent. Actlabs has automated this aspect of digestion using a microprocessor designed hotbox to accurately reproduce digestion conditions every time.



Bullion

Element	Range	Method	Price
Au	0.1 - 99.99 %	Au-fire assay – Gravimetric finish	\$136.25



Concentrates

Code Conc

Analysis of mine concentrates is a critical step for purchase and sale of commodities as well as optimizing recoveries. Control Assays require the highest degree of accuracy and precision.

Element	Range	Method	Price
Ag	0.1 - 99.99 %	Ag- fire assay – Gravimetric finish	\$128.75
Cu	0.5 - 100%	Cu by Titration	\$139.50
Zn	0.5 - 100%	Zn by Titration	\$139.50
Pb	0.5 - 100%	Pb by Titration	\$139.50
Fe	10 - 100%	Total Fe in Concentrate By Titration	\$139.50
U	10 - 100%	U by Titration	\$117.75

Prices are for normal turn-around time of 2 - 3 weeks. Expedited turnaround time as low as 1 day can be achieved at an additional cost.

Assay Products for Miscellaneous Metals

Code 8 - Assay Products

Assays provide quantitative determinations of elements in non-processed geological materials. Assays are usually required only when the client knows or suspects higher levels of metals in samples. Geochemical methods generally provide lower detection limits than assays. For lower levels, geochemical methods should be used. All assays are traceable to international reference standards. Prices listed in our fee schedule are for normal geologic materials and are not for metallurgical products. Metallurgical products such as heads and concentrates are handled separately to prevent contamination in the laboratory. These materials are charged at three times the prices listed in our fee schedule.

Element	Price	Element	Price
Alumina - Al ₂ O ₃	\$22.75	Magnesium (oxide) - MgO	\$20.50
Antimony - Sb	\$22.75	Moisture - H ₂ O	\$11.50
Arsenic - As	\$22.75	Molybdenum (total) - Mo	\$14.75
Barium (Instrumental) - Ba	\$22.75	Molybdenum (oxide)	\$26.25
Barium (Gravimetric) - Ba	\$31.75	Molybdenum (sulfide)	\$26.25
Beryllium - Be	\$22.75	Nickel - Ni	\$14.75
Bismuth - Bi	\$22.75	Nickel - Ni Sulphide	\$26.25
Boron - B	\$22.75	Niobium - Nb	\$20.50
Bromine - Br	\$22.75	Phosphorous (oxide) - P ₂ O ₅	\$20.50
Cadmium - Cd	\$22.75	Platinum-Palladium-Gold (Pt-Pd-Au)	\$51.25
Calcium (oxide) - CaO	\$22.75	Potassium (oxide) - K ₂ O	\$20.50
Cerium - Ce	\$22.75	Rhenium - Re (Mo concentrates)	\$45.50
Chlorine - Cl	\$28.50	Rhodium - Rh	See Code 1C-Rh, p. 7
Chromium - Cr	\$22.75	Selenium - Se	\$22.75
Cobalt - Co	\$14.75	Silicon (oxide) - SiO ₂	\$20.50
Copper (total) - Cu	\$14.75	Silver - Ag	\$24.25
Copper (CN soluble)	\$12.50	Sodium (oxide) - Na ₂ O	\$20.50
Copper (Acid soluble)	\$12.50	Specific Gravity - S.G.	\$17.00
Copper (Ferric sulfate soluble)	\$12.50	Specific Gravity (wax encapsulation)	\$22.75
Copper (Sequential Oxide Analysis)	\$45.50	Strontium - Sr	\$20.50
Fluorine - F	\$22.75	Sulfur (Infrared)	\$19.50
Gold - Au	See Code 1A3, p. 7	Sulfur (Gravimetric) - S	\$31.75
Gold-Silver (Au-Ag)	See Code 1A3-Ag, p. 7	Sulfate - SO ₄	\$26.25
Gallium - Ga	\$22.75	Tantalum - Ta	\$20.50
Germanium - Ge	\$22.75	Tellurium - Te	\$20.50
Insolubles	\$22.75	Thallium - Tl	\$20.50
Iron (oxide) - Fe ₂ O ₃	\$19.50	Thorium - Th	\$20.50
Lanthanum - La	\$19.50	Tin - Sn	\$20.50
Lead (total) - Pb	\$14.75	Titanium (oxide) - TiO ₂	\$20.50
Lead (oxide) - PbO	\$26.25	Tungsten (oxide) - WO ₃	\$20.50
Lithium - Li	\$17.00	Uranium (oxide) - U ₃ O ₈	\$26.25
Loss on ignition - LOI	\$11.50	Vanadium (oxide) - V ₂ O ₅	\$20.50
Mercury - Hg	\$20.50	Zinc (total) - Zn	\$14.75
Manganese (oxide) - MnO	\$20.50		

Litho geochemistry and Whole Rock Analysis

Litho geochemistry

When submitting pulp material it must be 95% -74 µm or additional pulverization charges will apply.

The most aggressive fusion technique employs a lithium metaborate/tetraborate fusion. Fusion is performed by a robot at Actlabs, which provides a fast fusion of the highest quality in the industry. The resulting molten bead is rapidly digested in a weak nitric acid solution. The fusion ensures that the entire sample is dissolved. It is only with this attack that major oxides including SiO₂, refractory minerals (i.e. zircon, sphene, monazite, chromite, gahnite, etc.), REE and other high field strength elements are put into solution. High sulphide-bearing rocks may require different treatment but can still be adequately analyzed. Analysis is by ICP-OES and ICP-MS. Quality of data is exceptional and can be used for the most exacting applications. Values on replicates and standards are provided at no cost, as are REE chondrite plots. Eu determinations are semiquantitative in samples having extremely high Ba concentrations (> 5 %).

Mineralized Samples: Although intended primarily for unmineralized samples, mineralized samples can be analyzed. However, data may be semiquantitative for chalcophile elements (Ag, As, Bi, Co, Cu, Mo, Ni, Pb, Sb, Sn, W and Zn). For quantitative chalcophile data see **Quant** add-ons below.

Code 4B ICP-OES Whole Rock Package: Whole rock data which meets or exceeds quality of data by fusion XRF. 3 g required.

Code 4B2 Trace Element ICP-MS package: The trace element package by ICP-MS, Codes 4B2-STD or 4B2-RESEARCH, on the fusion solution provides research quality data whether using standard or research detection limits. 0.5 g required.

Research designation: indicates lower detection limits.

Code 4Litho and Code 4Lithoresearch: The 4B and 4B2 packages are combined. 5 g required.

Quant designation: For quantitative values of chalcophile elements a surcharge will apply. A minimum sample weight of 5 g is required.

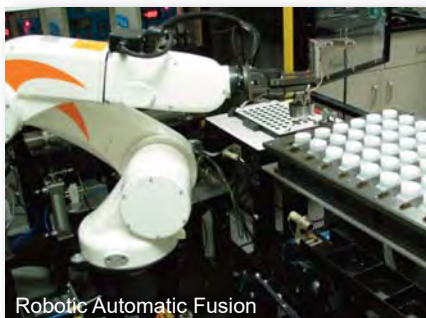
(+) Code 4B1: Optional elements by multiacid digestion. Please add 0.5 g.

(++) Code 4B-INAA: Optional elements are available by INAA. Please add 0.5 to 30 g depending on sample size you prefer to analyze for Au with this option.

All elements are in ppm except where noted. Prices per sample.

Add-ons:

4B1	\$11.00	surcharge
4B-INAA	\$19.75	surcharge
QUANT	\$21.25	surcharge



	WRA-ICP 4B	Trace element 4B2-std	WRA+ICP 4Litho	Trace element 4B2 -research	WRA+Trace 4 Lithoresearch
Al ₂ O ₃	0.01%		0.01%		0.01%
CaO	0.01%		0.01%		0.01%
Fe ₂ O ₃	0.01%		0.01%		0.01%
K ₂ O	0.01%		0.01%		0.01%
MgO	0.01%		0.01%		0.01%
MnO	0.001%		0.001%		0.001%
Na ₂ O	0.01%		0.01%		0.01%
P ₂ O ₅	0.01%		0.01%		0.01%
SiO ₂	0.01%		0.01%		0.01%
TiO ₂	0.001%		0.001%		0.001%
LOI	0.01%		0.01%		0.01%
Ag	(0.3+)	0.5	0.5	0.5	0.5
As	(0.5++)	5 (0.5++)	5 (0.5++)	5 (0.5++)	5 (0.5++)
Au	(2 ppb++)	(2 ppb++)	(2 ppb++)	(2 ppb++)	(2 ppb++)
Ba	2	3	2	3	3
Be	1		1		1
Bi		0.4	0.4	0.1	0.1
Br	(0.5++)	(0.5++)	(0.5++)	(0.5++)	(0.5++)
Cd	(0.5+)	(0.5+)	(0.5+)	(0.5+)	(0.5+)
Co	(1++)	1	1	1	1
Cr	(5++)	20 (5++)	20 (5++)	20 (5++)	20 (5++)
Cs	(1++)	0.5	0.5	0.1	0.1
Cu	(1+)	10 (1+)	10 (1+)	10 (1+)	10 (1+)
Fe		(0.01%++)		(0.01%++)	
Ga		1	1	1	1
Ge		1	1	0.5	0.5
Hf	(1++)	0.2	0.2	0.1	0.1
In		0.2	0.2	0.1	0.1
Ir	(5 ppb++)	(5 ppb++)	(5 ppb++)	(5 ppb++)	(5 ppb++)
Mo	(5++)	2	2	2	2
Na		(0.01%++)		(0.01%++)	
Nb		1	1	0.2	0.2
Ni	(1+)	20 (1+)	20 (1+)	20 (1+)	20 (1+)
Pb	(5+)	5	5	5	5
Rb	(20++)	2	2	1	1
S	(100+)	(100+)	(100+)	(100+)	(100+)
Sb	(0.2++)	0.5 (0.2++)	0.5 (0.2++)	0.2	0.2
Sc	1	(0.1++)	1 (0.1++)	(0.1++)	1 (0.1++)
Se	(3++)	(3++)	(3++)	(3++)	(3++)
Sn		1	1	1	1
Sr	1	2	2	2	2
Ta	(0.5++)	0.1	0.1	0.01	0.01
Th	(0.2++)	0.1	0.1	0.05	0.05
Tl		0.1	0.1	0.05	0.05
U	(0.5++)	0.1	0.1	0.01	0.01
V	5	5	5	5	5
W	(1++)	1	1	0.5	0.5
Y	1	1	1	0.5	0.5
Zn	(1+)	30 (1+)	30 (1+)	30 (1+)	30 (1+)
Zr	2	5	2	1	1
La	(0.5++)	0.1	0.1	0.05	0.05
Ce	(3++)	0.1	0.1	0.05	0.05
Pr		0.05	0.05	0.01	0.01
Nd	(5++)	0.1	0.1	0.05	0.05
Sm	(0.1++)	0.1	0.1	0.01	0.01
Eu	(0.2++)	0.05	0.05	0.005	0.005
Gd		0.1	0.1	0.01	0.01
Tb	(0.5++)	0.1	0.1	0.01	0.01
Dy		0.1	0.1	0.01	0.01
Ho		0.1	0.1	0.01	0.01
Er		0.1	0.1	0.01	0.01
Tm		0.05	0.05	0.005	0.005
Yb	(0.2++)	0.1	0.1	0.01	0.01
Lu	(0.05++)	0.01	0.01	0.002	0.002
1 - 10 samples	\$43.00	\$62.50	\$88.50	\$102.00	\$125.00
11 + samples	\$36.25	\$56.75	\$73.75	\$85.00	\$102.00

Litho geochemistry and Whole Rock Analysis

When submitting pulp material it must be 95% -74 µm or additional pulverization charges will apply.

	INAA 4A-research	WRA-XRF 4C	Total IDENT 4E-expl.	Total IDENT 4E-research
Al ₂ O ₃		0.01%	0.01%	0.01%
CaO		0.01%	0.01%	0.01%
Cr ₂ O ₃		0.01%		
Co ₃ O ₄		0.005%		
CuO		0.005%		
Fe ₂ O ₃		0.01%	0.01%	0.01%
K ₂ O		0.01%	0.01%	0.01%
MgO		0.01%	0.01%	0.01%
MnO		0.001%	0.01%	0.01%
Na ₂ O		0.01%	0.01%	0.01%
NiO		0.003%		
P ₂ O ₅		0.01%	0.01%	0.01%
SiO ₂		0.01%	0.01%	0.01%
TiO ₂		0.01%	0.005%	0.005%
V ₂ O ₅		0.003%		
LOI		0.01%	0.01%	0.01%
Ag	2		0.5	0.5
As	1		2	1
Au	2 ppb		5 ppb	1 ppb
Ba	20		3	1
Be			1	1
Bi			2	2 (0.1 ††)
Br	0.5		1	0.5
Ca	0.2%			
Cd			0.5	0.5
Co	0.1		1	0.1
Cr	0.5		1	0.5
Cs	0.2		0.5	0.2 (0.1 ††)
Cu			1	1
Fe	0.01%			
Ga			(5 †)	(5 †) (1 ††)
Ge				(0.5 ††)
Hf	0.2		0.5	0.2 (0.1 ††)
In				(0.1 ††)
Ir	2 ppb		2	2
Mo	2		5	2
Na	0.001%			
Nb			(1 †)	(1 †) (0.2 ††)
Ni	50		1	1
Pb			(5 †)	(5 †)
Rb	10		20 (2 †)	10 (2 †) (1 ††)
S			0.001%	0.001%
Sb	0.1		0.2	0.1
Sc	0.01		0.1	0.01
Se	0.5		3	0.5
Sn			(5 †)	(5 †) (1 ††)
Sr	100		2	2
Ta	0.3		1	0.3 (0.01 ††)
Th	0.1		0.5	0.1 (0.05 ††)
Tl				(0.05 ††)
U	0.1		0.5	0.1 (0.01 ††)
V			5	5
W	1		3	1
Y			1	1
Zn	10		2	2
Zr			4	4 (1 ††)
La	0.05		0.5	0.05
Ce	1		3	1 (0.05 ††)
Pr	(0.01 †)			(0.01 ††)
Nd	1		5	1 (0.05 ††)
Sm	0.01		0.1	0.01
Eu	0.05		0.1	0.05 (0.005 ††)
Gd	(0.01 †)			(0.01 ††)
Tb	0.1		0.5	0.1 (0.01 ††)
Dy	(0.01 †)			(0.01 ††)
Ho	(0.01 †)			(0.01 ††)
Er	(0.01 †)			(0.01 ††)
Tm	(0.01 †)			(0.005 ††)
Yb	0.05		0.1	0.05 (0.01 ††)
Lu	0.01		0.05	0.01 (0.002 ††)
1 - 10 samples	\$78.25	\$45.50	\$62.50	\$136.25
11 + samples	\$73.75	\$38.50	\$56.75	\$125.00

Research designation: indicates lower detection limits.

Code 4A-research: Grades are determined by INAA. A minimum sample weight of 2 g is recommended. REE chondrite plots are provided at no charge.

Code 4A RES-MS: elements indicated by † are analyzed by fusion ICP-MS.

Code 4C: The tried and true fusion XRF whole rock package. Samples containing high barite or high sulphide (greater than 1%) should be analyzed with Code 4B. A minimum sample weight of 3 g is required. We reserve the right to change analytical method to Code 4B if required by the sample composition.

Code 4E: This package uses ICP and INAA technologies to completely characterize geological samples. This package is not suitable for analyzing concentrates or mill products. A minimum sample weight of 5 g is required.

Code 4E Options

• † **Code 4E-XRF** elements Ga, Pb, Sn, Nb and Rb are examined by Pressed Pellet XRF. This package can be added to Code 4E exploration or Code 4E research (please add 6 g of sample).

• †† **Code 4E ICP-MS** add-on option: can only be added to Code 4E research grade.

Code 4F: Other analyses associated with WRA (can be added to any Code 4 package). Add 1 gram for each option chosen (see below).

All elements are in ppm except where noted. Prices per sample.

Add-ons:

Code 4E-XRF	\$24.00	surcharge
Code 4E ICP-MS	\$39.50	surcharge

Carbon & Sulphur Analyses

4F - C-Total (0.01%) by IR	\$19.50
4F - C-Organic (0.02%) (non-carbonate carbon)	\$35.00
4F - C-Organic (0.5%) by IR (calc)	\$57.50
4F - C-Graphitic (0.05%) by IR	\$28.25
4F - C,S (0.01%) by IR	\$22.75
4F - S (0.01%) by IR	\$19.50
4F - Sulphide	\$26.25
4F - SO ₄ (0.3%) by IR	\$26.25
4F - CO ₂ (0.01%) by IR	\$19.50

Code 5G - Carbon & Sulphur/Metallurgical Balance Package

Element	Detection Limit	Price: \$96.50/sample
C-Total	0.01%	
C-Graphitic	0.05%	
C-Organic	0.5%	
CO ₂	0.01%	
S	0.01%	
SO ₄	0.3%	

Miscellaneous Analyses

4F - Cl (0.01%) by INAA	\$28.25
4F - B (2 ppm) by PGNA	\$42.00
4F - B (0.5 ppm) by PGNA	\$52.50
4F - F (0.01%) by ISE	\$22.75
4F - N (Total)	\$45.75
4F - Hg by Cold Vapour FIMS	\$10.25
4F - FeO (0.1%) by Titration	\$19.50
4F - H ₂ O +/- (0.1%) IR or Gravimetric	\$26.25

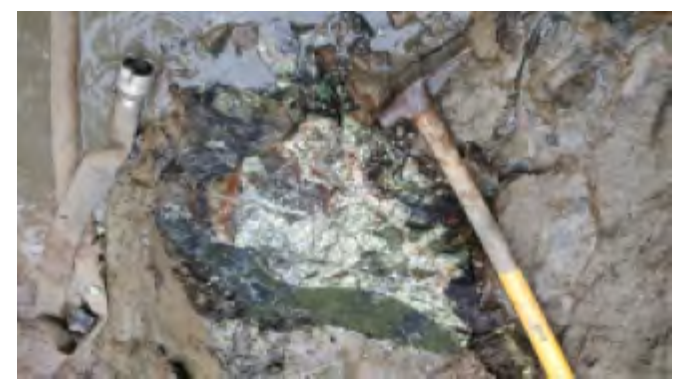
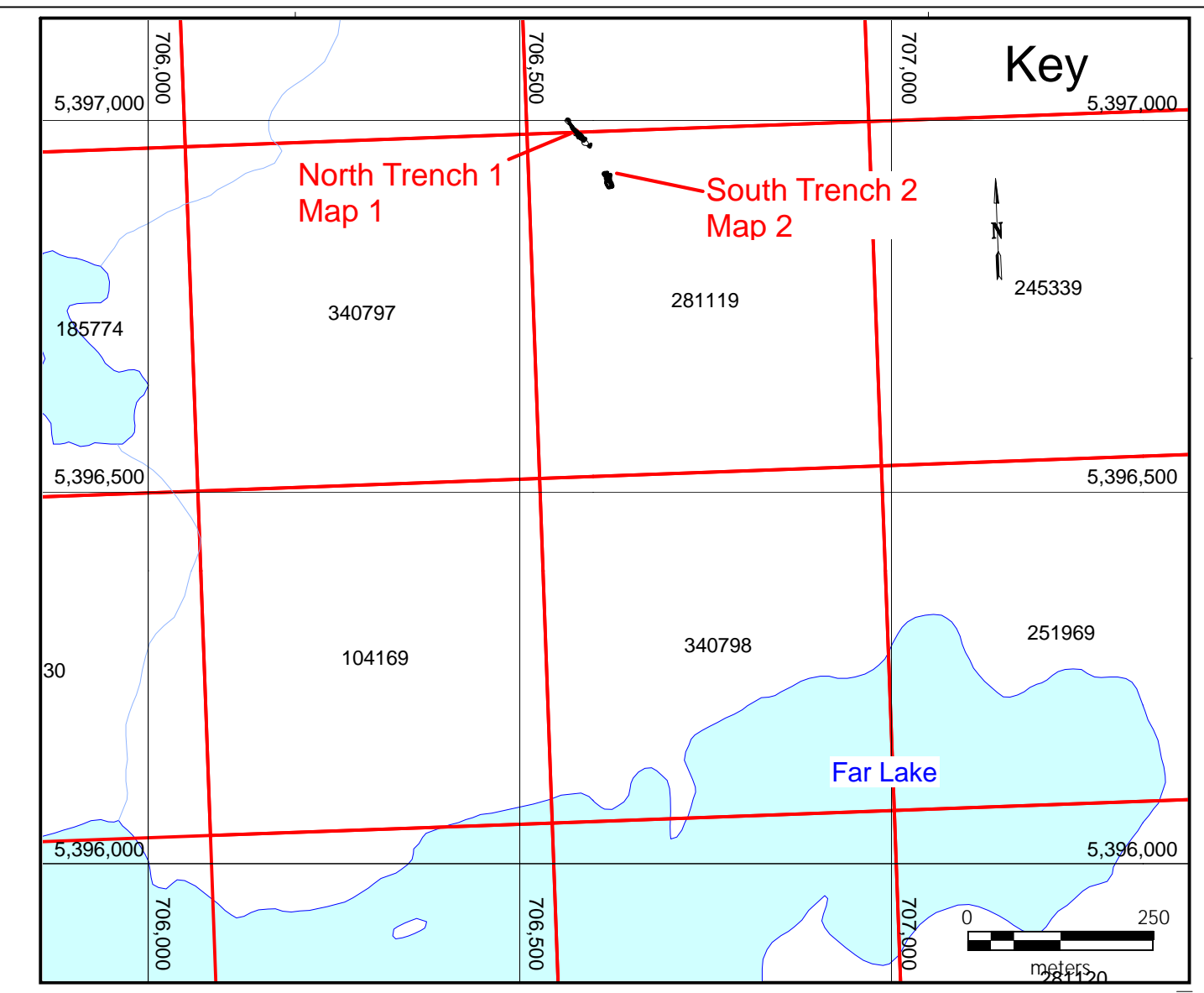
Appendix IV
Sample descriptions and assays Grab Samples

Far Lake Grab Samples 2019

Nad 83, UTM Zone 15				Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Cu				
Sample id	easting	northing	elev	desc	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
5190599	706257.5665	5397136	490.902	PORPH BOULDER 50CM TR CPY PY MALIKITE	< 5	0.3	< 0.5	439	139	< 1	4	5	20	0.95	< 2	< 10	38	< 0.5	< 2	0.07	2	12	1.36	< 10	< 1	0.23	25	0.93	0.1	0.023	0.06	< 2	2	7	< 0.01	< 20	< 1	2	< 10	7	< 10	5	25	0			
5190600	706512.8331	5397019	487.554	PORPH TR CPY MALIKITE	< 5	< 0.2	< 0.5	754	138	< 1	3	3	7	0.18	< 2	< 10	27	< 0.5	< 2	0.32	< 1	36	0.95	< 10	< 1	0.09	< 10	0.06	0.049	0.007	0.08	< 2	< 1	7	< 0.01	< 20	< 1	2	< 10	4	< 10	2	7	0			
5190601	706507.1517	5397025	482.9612	PORPH TR CPY	< 5	< 0.2	< 0.5	680	151	< 1	6	5	10	0.65	4	< 10	48	< 0.5	< 2	0.12	2	24	1.39	< 10	< 1	0.22	30	0.31	0.097	0.012	0.09	< 2	1	12	< 0.01	< 20	< 1	2	< 10	12	< 10	4	31	0			
5190602	706607.652	5396223	471.2156	GRANITE FRACTURED TR PY CPY BOULDER 1M	< 5	< 0.2	< 0.5	361	178	< 1	10	13	24	1.13	< 2	< 10	40	1	< 2	0.07	2	16	1.58	< 10	< 1	0.27	31	0.64	0.087	0.033	0.03	< 2	2	9	< 0.01	< 20	2	< 2	< 10	17	< 10	6	10	0			
5190603	706863.636	5396431	460.2661	SILISIFIDE QTZ STOCK NO SULFIDE VISABLE	< 5	< 0.2	< 0.5	7	276	< 1	23	3	41	1.1	< 2	< 10	34	0.8	< 2	0.12	7	70	1.68	< 10	< 1	0.21	15	0.77	0.048	0.033	< 0.01	< 2	3	6	< 0.01	< 20	< 1	2	< 10	26	< 10	5	15	0			
5190604	706710.2468	5396756	493.2425	SIL POPH 3%CPY	< 5	1.8	< 0.5	> 10000	523	1	40	6	30	1.69	< 2	< 10	31	1.3	3	2.98	9	95	4.29	< 10	< 1	0.22	< 10	1.61	0.059	0.038	1.99	< 2	8	14	0.02	< 20	< 1	4	< 10	71	< 10	9	12	1.99			
5190605	705511.7299	5396253	503.3746	SMALL RECTANGULAR BOULDERS 8% PY ALT SED	< 5	0.2	< 0.5	200	1360	< 1	34	< 2	86	2.83	< 2	< 10	23	< 0.5	< 2	2.88	31	23	7.99	< 10	< 1	0.3	< 10	1.05	0.159	0.031	2.8	4	15	38	0.23	< 20	< 1	2	< 10	115	< 10	10	7	0			
5190606	704614.9118	5396666	468.5871	SIL POPH BOULDER 50CM 5% DIS CPY	< 5	< 0.2	< 0.5	80	196	< 1	20	< 2	23	1.3	< 2	< 10	65	0.7	< 2	0.11	6	43	1.4	< 10	< 1	0.33	11	0.7	0.047	0.029	0.02	< 2	2	5	< 0.01	< 20	3	< 2	< 10	20	< 10	3	12	0			
5190607	704586.5379	5396694	476.0114	SIL PORPH BOULDER 40CM 1% CPY	< 5	0.5	< 0.5	3070	76	8	4	12	6	0.54	< 2	< 10	47	< 0.5	11	0.04	2	37	1.23	< 10	< 1	0.13	107	0.39	0.02	0.02	0.37	< 2	1	6	< 0.01	< 20	< 1	2	< 10	8	< 10	3	8	0			
5190608	704560.7944	5396685	461.5543	PROX BOULDER 30CM TR CPY	< 5	< 0.2	< 0.5	307	1400	< 1	2	5	159	1.05	< 2	< 10	125	0.8	< 2	1.49	17	4	9.62	< 10	2	0.66	38	0.31	0.205	0.334	0.05	3	8	16	0.16	< 20	3	< 2	< 10	8	< 10	72	5	0			
5190609	704480.6283	5396917	475.1418	SIL PORPH QTZ STOCK 1-2%PY CPY	< 5	< 0.2	< 0.5	801	731	1	36	3	42	1.64	< 2	< 10	42	0.5	< 2	0.13	13	77	3.97	< 10	< 1	0.16	21	1.06	0.074	0.061	0.1	< 2	3	6	0.02	< 20	< 1	2	< 10	59	< 10	5	11	0			
CH001	704477.6268	5396925	472.5939	SIL PORPH TR PY CPY	< 5	< 0.2	< 0.5	62	205	7	5	2	11	0.77	< 2	< 10	53	< 0.5	< 2	0.5	5	11	1.1	< 10	< 1	0.16	< 10	0.59	0.208	0.025	0.33	< 2	< 1	11	< 0.01	< 20	< 1	2	< 10	11	< 10	2	11	0			
CH002	704474.9799	5396923	471.6337	SIL PORPH TR PY CPY	< 5	< 0.2	< 0.5	13	183	< 1	4	< 2	11	0.64	< 2	< 10	26	< 0.5	< 2	0.3	4	17	0.9	< 10	< 1	0.07	< 10	0.45	0.029	0.025	0.15	< 2	< 1	13	< 0.01	< 20	< 1	2	< 10	11	< 10	1	10	0			
CH003	704472.6875	5396983	477.7326	SIL QTZ STOCK TR PY CPY	< 5	0.3	< 0.5	664	236	< 1	17	5	31	1.61	< 2	< 10	59	0.6	12	0.14	6	34	1.89	< 10	< 1	0.34	13	0.99	0.076	0.056	0.07	< 2	2	6	< 0.01	< 20	2	< 2	< 10	31	< 10	3	5	0			
CH004	704420.5325	5397052	480.2715	SIL QTZ STOCK 1%CPY	< 5	< 0.2	< 0.5	420	341	< 1	33	3	41	2.08	< 2	< 10	81	0.8	< 2	0.14	10	80	2.71	< 10	< 1	0.45	37	1.11	0.084	0.061	0.22	< 2	4	8	0.01	< 20	< 1	2	< 10	49	< 10	4	7	0			
CH005	704427.525	5397066	476.4494	SIL QTZ STOCK 1%CPY	< 5	< 0.2	< 0.5	1360	175	< 1	14	< 2	19	1.03	< 2	< 10	44	< 0.5	< 2	0.07	4	50	1.52	< 10	< 1	0.22	17	0.58	0.065	0.03	0.14	< 2	2	6	< 0.01	< 20	< 1	2	< 10	23	< 10	2	9	0			
CH006	704553.538	5397070	484.2297	QTZ VEINING SIL TR CPY	< 5	< 0.2	< 0.5	286	205	2	14	28	28	1.08	< 2	< 10	47	0.7	< 2	0.09	5	37	1.34	< 10	< 1	0.35	25	0.55	0.032	0.035	0.04	< 2	2	8	< 0.01	< 20	< 1	2	< 10	19	< 10	5	10	0			
1123252	705056.2542	5396428	497.107	Altered grano a lithim assay tantalum	< 5	< 0.2	< 0.5	20	166	1	8	< 2	24	0.6	< 2	< 10	21	< 0.5	< 2	0.07	2	34	1.15	< 10	< 1	0.16	19	0.29	0.035	0.029	< 0.01	< 2	< 1	3	< 0.01	< 20	3	< 2	< 10	10	< 10	4	9				
1123253	705130.0297	5396345	504.383	Altered grano black mineral li ta	< 5	< 0.2	< 0.5	25	295	3	23	3	51	1.16	< 2	< 10	35	< 0.5	< 2	0.04	6	58	2.25	< 10	< 1	0.17	19	0.69	0.055	0.016	< 0.01	< 2	< 1	2	4	0.01	< 20	1	< 2	< 10	24	< 10	2	9			
1123256	705291.1948	5396150	487.204	Sil rusty tr sul oc	< 5	< 0.2	< 0.5	6	37	1	1	3	< 2	0.2	< 2	< 10	48	< 0.5	< 2	0.01	< 1	30	0.65	< 10	< 1	0.23	< 10	0.02	0.027	0.005	0.06	< 2	< 1	5	< 0.01	< 20	< 1	2	< 10	2	< 10	< 1	2				
1123257	705090.8785	5396227	464.014	Large breccia boulder with tr cpy rusty	< 5	< 0.2	< 0.5	780	66	6	4	< 2	4	0.28	< 2	< 10	25	< 0.5	< 2	0.03	< 1	42	0.89	< 10	< 1	0.14	27	0.14	0.029	0.018	0.07	< 2	< 1	5	< 0.01	< 20	< 1	2	< 10	7	< 10	2	3				
1123258	704853.8187	5396225	482.725	Rusty contact zone breccia mafic no mafic c tr cpy	< 5	< 0.2	< 0.5	356	60	3	5	5	4	0.41	< 2	< 10	138	< 0.5	< 2	0.04	< 1	94	0.88	< 10	< 1	0.11	63	0.29	0.026	0.017	0.05	< 2	< 1	5	< 0.01	< 20	< 1	2	< 10	6	< 10	2	3				
1223254	705155.1548	5396283	494.12	Rusty breccia sil oc	< 5	< 0.2	< 0.5	207	68	6	3	< 2	3	0.25	< 2	< 10	39	< 0.5	< 2	0.06	< 1	45	0.53	< 10	< 1	0.14	21	0.08	0.028	0.016	0.02	< 2	< 1	5	< 0.01	< 20	4	< 2	< 10	6	< 10	1	5				
1223255	705180.0903	5396266	493.798	Sil breccia small py seams oc	< 5	< 0.2	< 0.5	179	50	3	4	3	< 2	0.35	< 2	< 10	35	< 0.5	< 2	0.03	1	35	1.32	< 10	< 1	0.25	19	0.06	0.031	0.014	0.29	< 2	1	8	< 0.01	< 20	2	< 2	< 10	9	< 10	1	8				
235505	704212.8197	5397433	477.937	Intensely sil altered oc qtz flooded tr cpy	< 5	< 0.2	< 0.5	67	54	3	2	< 2	3	0.33	< 2	< 10	1270	< 0.5	< 2	0.02	< 1	45	0.62	< 10	< 1	0.12	< 10	0.23	0.045	0.004	0.05	< 2	< 1	35	< 0.01	< 20	< 1	2	< 10	5	< 10	3	5				

Nad 83, UTM Zone 15				Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au		
Sample id	easting	northing	elev	desc	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb
235506	707464.4612	5394924	460.589	Altered grano 10%py boulder	< 0.2	< 0.5	2	84	< 1	8	1	5	6	0.38	< 2	< 10	19	< 0.5	< 2	0.05	< 1	8	4.39	< 10	< 1	0.21	< 10	0.11	0.083	0.027	3.36	< 2	< 1	11	< 0.01	< 20	< 1	2	< 10	4	< 10	< 1	5	< 5		
235507	707512.955	5395043	463.03	Altered grano 15%py boulder	< 0.2	< 0.5	2	186	< 1	2	4	19	0.56	< 2	< 10	32	< 0.5	< 2	0.06	< 1	12	2.41	< 10	< 1	0.18	24	0.22	0.086	0.027	0.8																

Appendix V
Maps 1-3



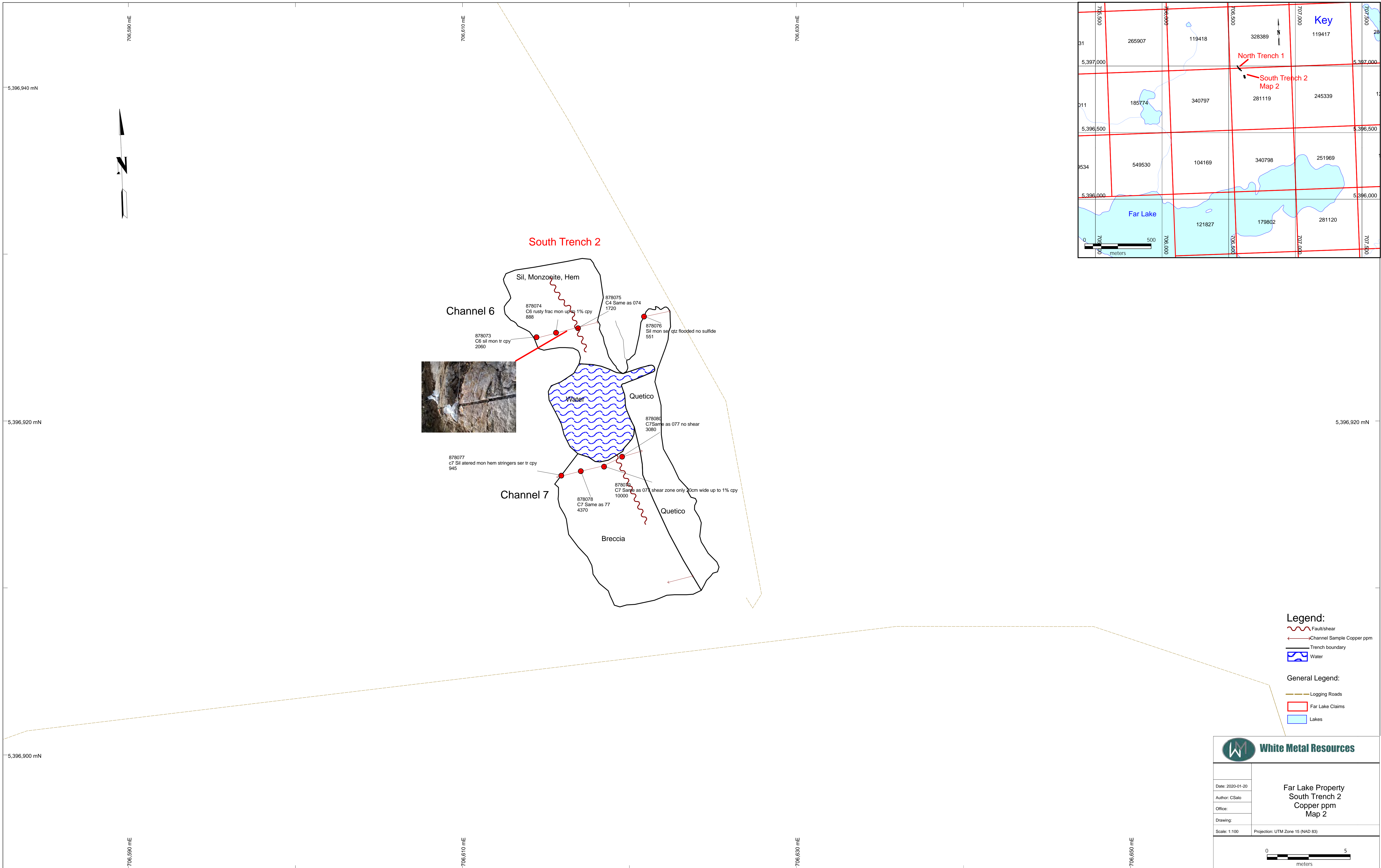
General Legend:		Trench Legend	
	Railways		Grab Cu ppm
	Streams		Channel Sample - Cu ppm
	Utility Lines		Water
	Lakes		Rusty Zone
	Township		Copper Zone
	Far Lake Claims		Massive Sulphides
	Logging Road		Trench Outline
			Fault

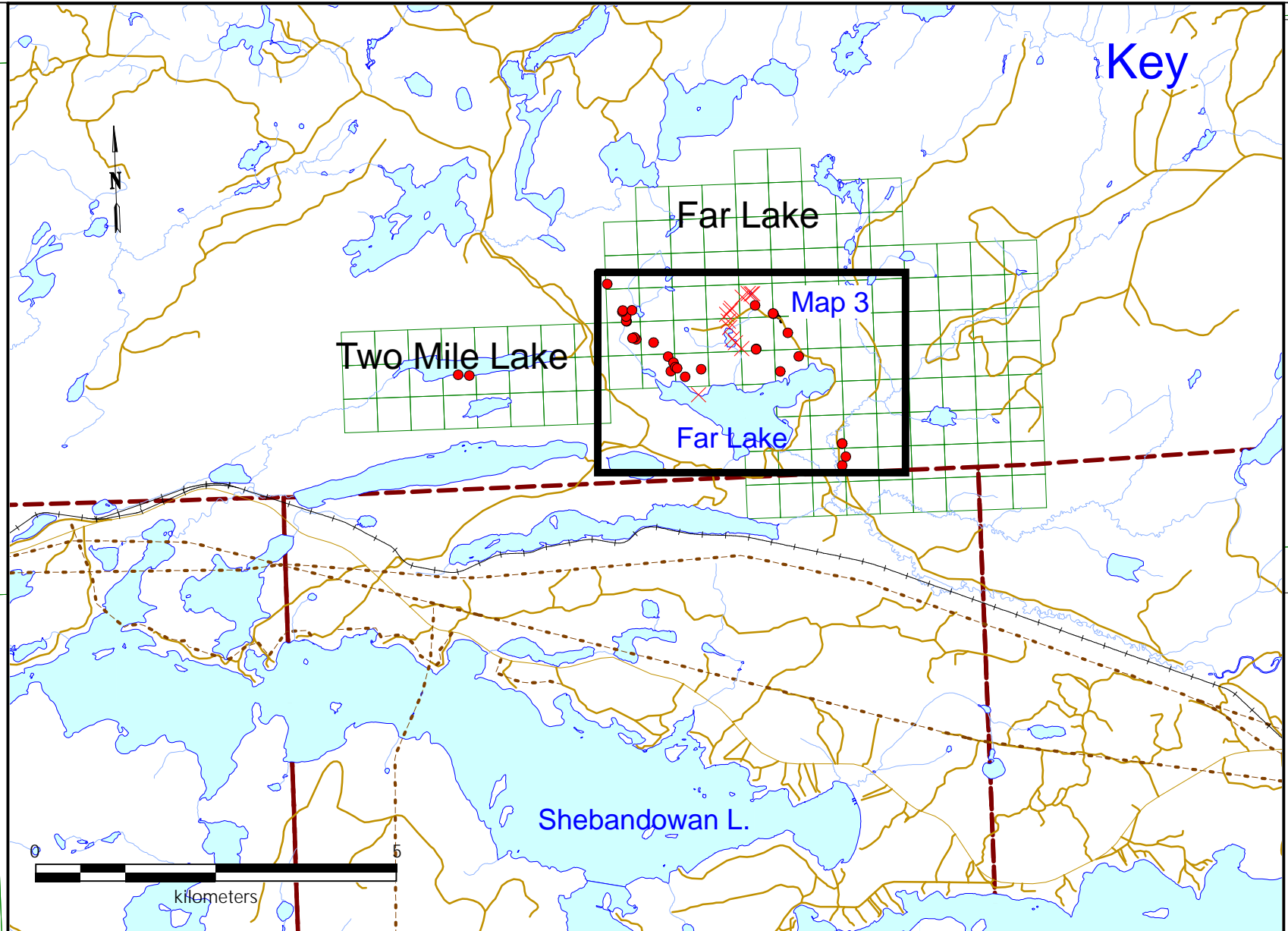
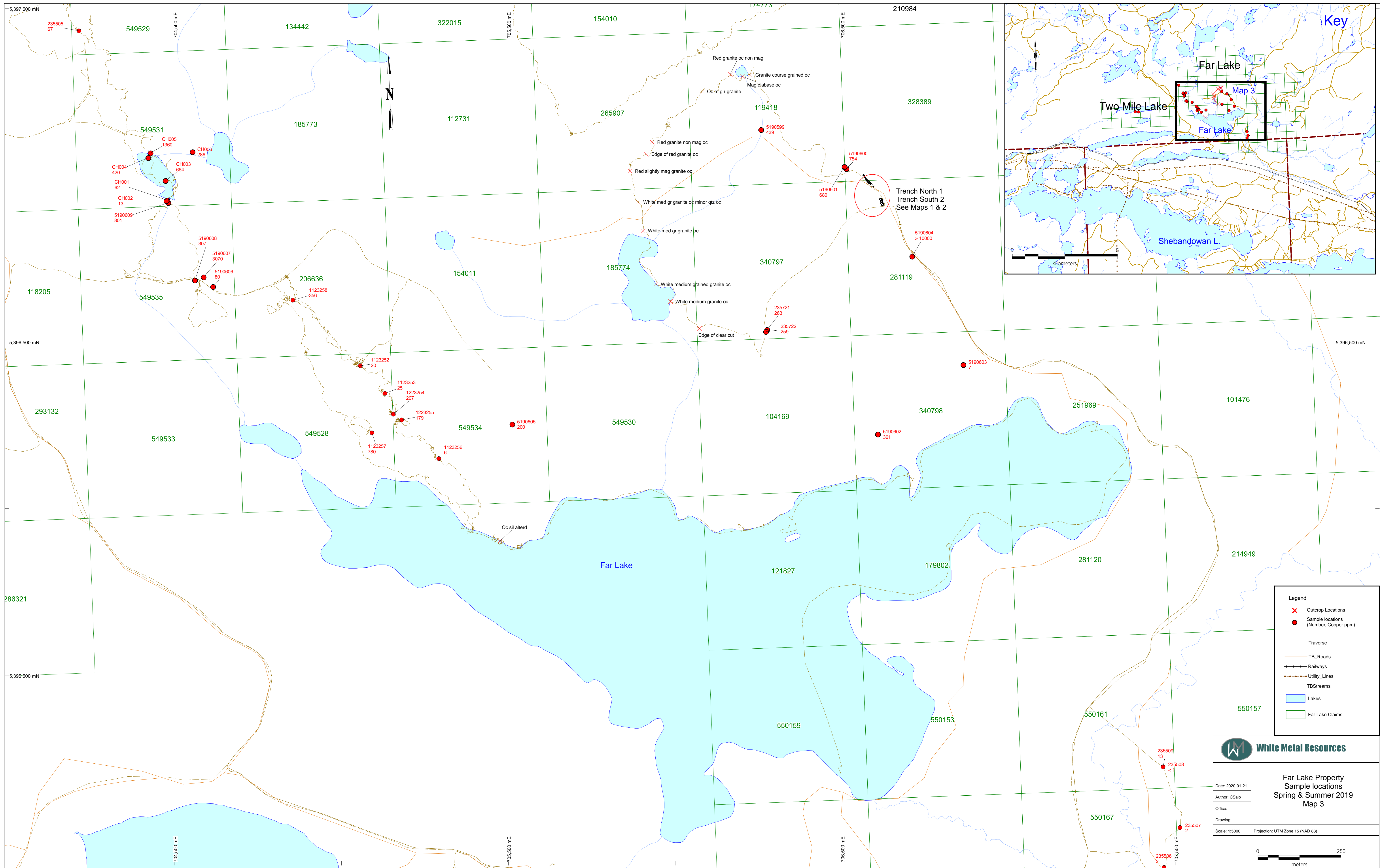
White Metal Resources

Date: 2020-01-20
 Author: CSalo
 Office:
 Drawing:
 Scale: 1:100
 Projection: UTM Zone 15 (NAD 83)

**Far Lake Property
 Trench 1 Copper ppm
 Map 1**

0 5
 meters





Trench North 1
Trench South 2
See Maps 1 & 2

5,397,500 mN

5,396,500 mN

5,395,500 mN

704,500 mE

705,500 mE

706,500 mE

707,500 mE

549529

134442

322015

154010

174773

210984

328389

185773

112731

265907

119418

549531

CH005 1360

CH006 286

CH004 420

CH003 664

CH001 62

CH002 13

5190609 801

5190608 307

5190607 3070

5190606 80

206636

1123258 356

154011

185774

340797

5190601 680

5190600 754

5190604 >10000

281119

118205

549535

293132

549533

549528

206636

1123252 20

1123253 25

1223254 207

1223255 179

549534

5190605 200

104169

340798

251969

101476

1123257 780

1123256 6

549530

104169

340798

5190602 361

5190603 7

281120

214949

179802

550159

550153

550161

550167

121827

179802

281120

214949

550157

550167

235508 13

235508 2

235507 2

235506 2

235508 13

235508 2

235507 2

235506 2

Oc sil altered

Edge of clear cut

White medium grained granite oc

White medium granite oc

White med gr granite oc

White med gr granite oc minor qtz oc

Red slightly mag granite oc

Edge of red granite oc

Red granite non mag oc

Oc m g r granite

Mag diabase oc

Granite coarse grained oc

Red granite oc non mag

Prospecting Far Lake

Activity	Date From	Date to	date inv	inv. No	Type	days/hrs/ units	rate	invoice for	Description	amt	amt	
prospecting	May 9, 2019	May 9, 2019	June 3, 2019	A19-06420	assays	19.0	26	Activation Labs	19 Samples	500.5	501	
prospecting	May 13, 2019	May 13, 2019	May 29, 2019	A19-06570	assays	9.0	25	Activation Labs	9 Samples	229.05	229	
											730	
prospecting	June 13, 2019	June 13, 2019	July 9, 2019	Jul 9-19 Exp	food		1	Michael Stares	food	67.25	67	
											67	
prospecting	April 24, 2019	April 25, 2019	April 29, 2019	348020	fuel		1	Hickman Prospecting Services	Fuel	127.9	128	
prospecting	May 3, 2019	May 8, 2019	May 9, 2019	348023	fuel		1	Hickman Prospecting Services	fuel	339.34	339	
prospecting	May 11, 2019	May 11, 2019	May 11, 2019	May 11-19 Exp	fuel		1	Michael Stares	Fuel	297.85	298	
											765	
prospecting	April 24, 2019	April 25, 2019	April 29, 2019	348022	labour	1.5	300	Hickman Prospecting Services	1.5 days - Apr24/25 prospecting	450	900	Doubled
prospecting	May 3, 2019	May 8, 2019	May 9, 2019	348024	labour	5.0	300	Hickman Prospecting Services	May 3/6/7/8 Prospecting	1200	2400	Doubled
prospecting	May 9, 2019	May 11, 2019	May 13, 2019	348025	labour	2.5	300	Hickman Prospecting Services	2.5 Days - May 9 (0.5)/May 10/11-2019 prospecting	750	1500	Doubled
prospecting	April 26, 2019	April 29, 2019	April 30, 2019	MS043019	labour	2.0	370	Michael Stares	M Stares - 2 Days - Far Lake - Prospecting (Apr 26/29)	740	1480	Doubled
prospecting	May 2, 2019	May 19, 2019	May 31, 2019	MS053119	labour	6.5	370	Michael Stares	Mick - 6.5 Days - Far Lake Prospecting	2405	4810	Doubled
prospecting	June 19, 2019	June 19, 2019	June 30, 2019	MS063019	labour	1.0	370	Michael Stares	Mick - 1 Day - Far Lake - Prospecting	370	740	Doubled
											11830	
prospecting	January 1, 2020	January 30, 2020	February 1, 2020	SGSS2020-02	maps/rpt	7.5HR	45	Salo Geoscience	trenching report and maps	337.5	338	
											338	
prospecting	April 24, 2019	April 25, 2019	April 29, 2019	348022	truck	1.0	75	Hickman Prospecting Services	Truck rental	75	75	
prospecting	May 3, 2019	May 8, 2019	May 9, 2019	348024	truck	3.0	75	Hickman Prospecting Services	May 6/7/8 Truck rental	225	225	
prospecting	May 9, 2019	May 11, 2019	May 13, 2019	348025	truck	1.0	75	Hickman Prospecting Services	May 11-19 Truck Rental	75	75	14104
											375	

Trenching Far Lake

trenching			December 31, 2019	A19-11720	assays	33.0	27	Activation Labs	assay of 33 Samples	888	888	
											888	
trenching			August 9, 2019	242	Equipment	4/19 hr	255	Ranlyn Enterprises	4hr Float/19 hr 120 Excavator	2820	2820	
											2820	
trenching	July 9, 2019	July 9, 2019	July 9, 2019	Jul 9-19 Exp	fuel		1	Michael Stares	fuel	218.43	218	
											218	
Trenching	August 1, 2019	August 1, 2019	August 15, 2019	001	labour	1.0	200	Logan Hart	Aug 1 - Washing and cleaning trenches	150	300	Doubled
Trenching	August 1, 2019	August 1, 2019	August 15, 2019	001	labour	1.0	200	Zack Keats	Aug 1 - washing and cleaning trenches	200	400	Doubled
Trenching	August 17, 2019	August 18, 2019	August 19, 2019	422451	labour	28.0	50	Cliff Hickman	28 samples cut and bagged @ \$50/sample	1400	2800	Doubled
trenching	July 29, 2019	July 31, 2019	July 31, 2019	MS073119	labour	3.0	370	Michael Stares	Mick - 3 Days - Far Lake - Trenching	1110	2220	Doubled
Trenching	August 1, 2019	August 31, 2019	August 31, 2019	MS083119	labour	15.0	370	Michael Stares	Mick - 9.0 Days - Far Lake - Trenching, Geology, Prospecting	5550	11100	Doubled
											16820	
trenching	December 1, 2019	December 22, 2019	January 1, 2020	SGS202001	maps/rpt	19.5 HR	45	Salo Geoscience	Prospecting report and maps	877.5	878	
											878	21624

35728

