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# Assessment Work Report

Scholes Township

Work Carried Out On Legacy Claims:

S3017117, S3014444, S4275001, S4275002 and applied to

Contiguous Legacy Claims: S3014444, S3017117, S3017138, S4275001, S4275002, S4275003 and S4275004

MLAS Cell/Claim IDs: (see Table)

NTS Map Sheet 41-I/16

December 17, 2018

Prepared By:  
Trefstone Corporation  
BaseLine Geomaterials Inc.

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## Overview

This report details procedures and results for a Field Project Layout and Sampling Program undertaken for purposes of evaluating the mineral potential of the property. The property is composed of single cell mining claims (S) and boundary cell mining claims (B) in the MLAS system as per the table below.

Cell Count	Tenure ID	Tenure Type	Legacy Claim
1	183371	B	3014444
2	330545	S	
3	326691	B	
4	251254	B	
5	131074	B	3017117
6	195286	S	
7	223418	S	3017138
8	239145	B	
9	120660	B	4275001
10	315634	B	
11	296173	B	
12	241542	B	
13	106435	S	
14	298637	S	4275002
15	279964	S	
16	279963	S	
17	279962	S	
18	231952	B	
19	120659	B	
20	314841	S	
21	289422	S	4275003
22	246017	S	
23	233341	S	
24	252853	S	4275004
25	281342	S	
26	225337	S	
27	246016	S	
28	318748	S	
29	340320	S	

## **Project Team**

The project team was comprised of:

Eglon Rose, Prospector (#2000282)-Trefstone Corporation

Steve Gosling, OLS, Prospector(#1014133)-BaseLine Geomaterials Inc.

Marc Gaudreau, Prospector (#1009179)

Douglas Miller, Field Assistant

Robert Roy, Field Assistant

David Vallillee – Prospector (#C31465)

## **Purpose**

The purpose of this project was to follow up on earlier work on site and continue prospecting activities for gold, cobalt, PGEs and copper and to satisfy requirements for assessment work on behalf of the claimholders.

A magmatic iron formation found on the property (Dominion Gulf 1947-1949) contains a large iron deposit at depth. This banded iron formation may be connected to the formation found on a known former gold mine (the Golden Rose Mine) in the vicinity. At that location the gold values were reported to be found in a cherty iron formation.

The ground covered by the claims is on strike with known copper and gold occurrences in the area and is occupied by the same suite of rock types which include nipissing diabase and cobalt series sediments.

## **Project Area**

Work was performed on legacy claims 3014444, 3017117, 3017138, 4275001, 4275002, 4275003 and 4275005 that are owned collectively in varying proportions by Trefstone Corporation, Marcus Martin (Estate) and Renata Koslowski.

Topography is rugged with steep hills trending north-east and some lower swampy areas. Vegetation is second growth, mixed forest with cedar, jack pine, white pine, birch, spruce and poplar.

Geology is pre-cambrian aged rocks. The oldest are keewatin with bands of greenstones and schists. Cobalt sediments occur in the younger and predominantly nipissing diabase. The sediments, greenstones and iron formations are exposed in the lower areas (Moore 1936/Rose 2006). Sulphides, gold, copper, PGEs and cobalt are the minerals of interest.

## **Access**

The property is located in Scholes Township and can be accessed by travelling east from Sudbury, ON following Highway 17 to Warren; then northerly along Highway 539 to River Valley. Continue on Highway 539A approximately 10 km to a bridge crossing the Sturgeon River. Turn right at the T-intersection and continue northerly on Highway 805 for 40 km to where a road to the Obabika Lake Lodge intersects, turn right and proceed easterly for 3 km to Greenrod Lake, continue on this road for another 3km to an intersecting road (N5201300, E555770) turn right and follow this road easterly and southeasterly to a small pull off area where an overgrown road around a small lake on the right hand side intersects at (N5201110, E559650). Follow the mostly overgrown road southerly to an abandoned stockpile (N5200885, E 559950). (Note: all coordinates UTM NAD83, Zone 17).

## **Applicable Exploration Permits**

The project consisted of grassroots prospecting (surface sampling only) and consequently no permits were required.

## **Daily Log of Activities**

BaseLine Geomaterials Inc. and Trefstone Corporation supported by independent contractors completed work for this assignment over several days during the fall of 2018 on behalf of the registered owners of the claims.

September 21, 2018 (3hrs)

Ed Rose - work consisted of historical document review of access, topography and geology as well as project planning and securing of tools and supplies. Preparation of field layout sketches of the orebody projected to surface and grid line configuration for field investigation and surface sampling.

September 22, 2018 (11.5hrs)

Ed Rose, Steve Gossling, Dave Vallillee and Doug Miller. The fieldwork consisted of travel from Sudbury to the site; confirmation of access; initial investigations of rock types and mineralisations and obtain three (3) samples (SF-1, SF-2 and SF-3) at various outcrop locations.

October 20, 2018 (6hrs)

Ed Rose and Steve Gossling - Project planning and preparation of field layout sketches for the deep iron orebody projected to surface and determine proposed grid lines for field investigation and possible sampling.

October 22, 2018 (13hrs)

Ed Rose, Steve Gossling, Marc Gaudreau, Doug Miller and Robert Roy. Travel from Sudbury to the site, flag projected orebody at surface; mark and flag alterations and other noted structural features; layout of sample locations based on prospecting findings and gather samples, bag and label samples for preparation and laboratory analysis.

October 24, 2018 (12hrs)

Ed Rose, Steve Gossling, Marc Gaudreau, and Doug Miller. Travel from Sudbury to the site and continue with prospecting and sampling, bag and label samples for preparation and laboratory analysis.

November 12, 2018 (4hrs)

Ed Rose and Steve Gossling Sample prepare and deliver samples to AGAT for chemical laboratory testing.

November 18 to December 10, 2018 (50hrs)

Ed Rose and Steve Gossling. Report compilation, review and editing.

## Sampling

All of the sampling was done using hand tools only.

<b>Sample Number</b>	<b>Sample ID</b>	<b>Comments/Observations</b>	<b>N</b>	<b>E</b>
1	SF#1	3kg, mixed broken magnetite ore and waste material from old stockpile area. Tonalite section with narrow(a few mm) white quartz stringers and sulphide specks. Iron ore 60% (approx.), fine diabase waste 40%	5200867	559975
2	SF#2	2-3 kg, fine grained nipissing diabase with some 2-3% pyrite specks	5200885	559945
3	SF#3	Old stockpile - 3kg bedded inner layers of fine to medium grained magnetite jasper and chert with minor clastic sediments	5200885	559950
4	L1W and L4W#12	2kg composite, medium to coarse grained, slightly altered diorite with no sulphides. Hand	5201050	559450



		strip shallow moss covered area 3m by 4m to expose flat lying outcrop, composite chip sample		
5	EM#3	3kg chip sample from medium to fine grained diabase (diorite)	5201042	559495
6	EM#12B	3kg quartz diabase chio sample – some serpentine alteration	5201260	559630
7	2W-50N (soil) EM#1A	4 kg brownish grey soil with specs of sulphides	5201042	559495
8	EM#7	3kg chip sample-brecciated diabase (diorite)-sulphide specs.	5201035	559585
9	EM#5	same as EM#7 above	5201105	559600
10	EM#4	4kg medium grained grey-green diabase with occasional quartz threads	5201140	559600
11	EM-10	Medium grained diabase with scattered fractures and less than 1% pyrite grains. 4 kg chip sample from 5m by 4m face.	5201220	559500
12	L3W#11	Medium coarse grained quartz diabase with scattered grewacke sections and pressure cracks with 1% pyrite. 1m by 3m long old existing trench. 2kg sample.	5201270	559550
13	EM-12	Medium to coarse gained dioritic and blocky fractured rock. Some high fractured areas of finer grained diabase. Scattered narrow smoky quartz stringers. Pyrite specks in the altered/fractured sections with occassionall brecciations. 3kg chip sample taken from hand stripped 5m by 7m thinly covered moss area.	5201280	559610

14	4W-12A	Mixed greyish green medium to fine grained graywacke and diabase, scattered brecciation and altered with sporadic pyrite grains. 3kg random chip sample taken from 4m by 5.5m of cleaned sub-vertical wall.	5201210	559605
15	L4W#14	As EM12A and with quartz-diorite-porphry texture. Patches of pink feldspatic material. Scattered epidote in scistose sections. 3 kg chip sample.	5201210	559630
16	318A	Dark fine to medium grained diabase with narrow jasper quartz bands and stringers; some conglomerate contact and interbanded with chlorite.Epidote alteration - pyrite specks. Clean sample area - moss. 4 kg chip sample.	5200968	559958
17	SW#1	Variable altered fine to medium grained quartz diabase - diorite - some hornblende blebs and iron formation infolded with schist. Disseminated pyrite and chalco pyrite. 4 kg chip sample.	5201278	559899
18	SW#2	Medium grained quartz diabase variable alteration - magnetite fragments interbanded with chlorite and greenish rock - scattered pyrite specks. 4 kg chip sample.	5201296	560028
19	SW218A	Variable altered fine to medium grained quartz diabase - diorite - some hornblende blebs and iron formation infolded with schist. Disseminated pyrite and chalco pyrite. 4 kg chip sample.	5201280	559917
20	SW222	Mixed altered diabase and medium grained hard quartz	5201296	560018

		diabase, some hornblende and pyroxene blebs and grains. 4 kg chip sample.		
21	SW313	hard grey quartz diabase - medium grained patchy altered sections; narrow quartz stringers and needles; minor pyrite specks. 4 kg chip sample.	5200880	559748
22	EM #6	Altered shared gabbroic rock with scattered small quartz stringers and blebs. 4 kg chip sample.	5201150	559583

## Sample Preparation and Delivery

After photographing and cataloging the individual sample locations the samples were placed in sample bags for subsequent preparation for lab testing. Subsequent preparation included washing, cleaning and scrubbing with a bristle brush to remove surface soil (if any). Samples were then split in half and bagged. Half of each sample was hand delivered to AGAT Laboratories in Sudbury for chemical analysis. The claim holders will store the remaining half of each sample.

## Conclusions/Recommendations

The distribution of rock types found during the sampling program suggests that the surface projection of the deep (300m) iron ore was fairly represented.

Scattered sulphide mineralisation was observed in most of the samples, especially in and around altered rock sections. Visible Au, Ag and PGEs were not seen in any of the samples.

Based on rock types, alteration pattern and analytical information from the laboratory testing, future work should include more stripping, grid layout and more detailed sampling and rock analysis from other areas within the claim group. The samples should be analysed for Au, Ag and PGEs.

This report respectfully submitted December 17, 2018.

*Ed Rose*

Eglon (Ed) A. Rose

*SJ Gossling*

Steve J. Gossling

## Appendix 1 - Photographs



Sample L1W



Sample L4W#14



Sample 218A





Sample SW22



Sample 318A



Sample SW313

## Appendix 2 - Assay Results





**CLIENT NAME: BASELINE GEOMATERIALS INC.  
492 SECOND AVE. S  
SUDBURY, ON P3B 3L5  
705-988-4500**

**ATTENTION TO: STEVE GOSSLING**

**PROJECT: SC**

**AGAT WORK ORDER: 18T409215**

**SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician**

**DATE REPORTED: Dec 10, 2018**

**PAGES (INCLUDING COVER): 14**

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

**\*NOTES**

Empty rectangular box for notes.

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18T409215  
PROJECT: SC

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: BASELINE GEOMATERIALS INC.

ATTENTION TO: STEVE GOSSLING

## (200-) Sample Login Weight

DATE SAMPLED: Nov 27, 2018

DATE RECEIVED: Nov 14, 2018

DATE REPORTED: Dec 10, 2018

SAMPLE TYPE: Other

Analyte:	Sample Login Weight
Unit:	kg
RDL:	0.01
Sample ID (AGAT ID)	
2W-50N (soil) EM#1A (9742758)	0.301
EM#3 (9742759)	0.557
EM#12 (9742760)	0.708
EM#12B (9742761)	0.931
EM#1 (9742762)	0.292
Line1W and L4W #12 (9742763)	1.343
L3W #11 and L4W #14 (9742764)	1.302
EM#10 (9742765)	0.640
EM#7 (9742766)	0.813
EM#5 (9742767)	0.997
4W-12A (9742768)	0.576
EM#4 (9742769)	0.511
EM#8 (9742770)	0.700
SW#2 (9742771)	0.560
318A (9742772)	1.425
SW#1 (9742773)	0.642
SW218A (9742774)	0.527
SW222 (9742775)	1.087
SW313 (9742776)	0.659
SF#1 (9742777)	1.906
SF#2 (9742778)	0.708
SF#3 (9742779)	1.650

Comments: RDL - Reported Detection Limit

**Certified By:**



**Certificate of Analysis**  
 AGAT WORK ORDER: 18T409215  
 PROJECT: SC

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CLIENT NAME: BASELINE GEOMATERIALS INC.

ATTENTION TO: STEVE GOSSLING

(201-079) Sodium Peroxide Fusion - ICP-OES finish															
DATE SAMPLED: Nov 27, 2018			DATE RECEIVED: Nov 14, 2018					DATE REPORTED: Dec 10, 2018				SAMPLE TYPE: Other			
Analyte:	Al	As	B	Ba	Ca	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	
Unit:	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
RDL:	0.01	0.005	0.01	0.001	0.05	0.001	0.005	0.001	0.01	0.05	0.01	0.005	0.005	0.005	
2W-50N (soil) EM#1A (9742758)	6.31	<0.005	<0.01	0.036	1.04	0.001	0.007	0.002	2.87	1.23	<0.01	0.560	0.035	0.007	
EM#1 (9742762)	5.82	<0.005	<0.01	0.036	1.29	0.001	0.011	0.003	3.03	1.30	<0.01	0.756	0.041	0.005	
L3W #11 and L4W #14 (9742764)	7.91	0.005	<0.01	0.004	2.90	0.002	0.007	0.025	2.56	0.20	<0.01	1.36	0.049	0.009	
EM#10 (9742765)	4.80	<0.005	<0.01	0.008	6.96	0.006	0.009	0.004	9.58	0.36	<0.01	5.16	0.181	<0.005	
EM#7 (9742766)	7.24	<0.005	<0.01	0.016	7.46	0.005	0.006	0.016	7.85	0.67	<0.01	4.28	0.142	0.006	
EM#5 (9742767)	6.95	0.005	<0.01	0.009	7.99	0.006	0.006	0.017	7.87	0.47	<0.01	4.34	0.148	0.006	
4W-12A (9742768)	6.99	0.009	<0.01	0.005	7.30	0.004	<0.005	0.006	8.42	0.14	<0.01	4.15	0.154	0.006	
EM#4 (9742769)	7.09	<0.005	<0.01	0.007	7.11	0.005	0.005	0.022	8.32	0.46	<0.01	4.06	0.147	0.006	
EM#6 (9742770)	7.21	0.005	<0.01	0.011	7.76	0.004	<0.005	0.011	7.86	0.53	<0.01	4.26	0.143	0.007	
SW#2 (9742771)	7.07	<0.005	<0.01	0.009	7.44	0.004	0.010	0.010	7.17	0.45	<0.01	3.58	0.138	0.006	
SF#2 (9742778)	8.33	0.008	<0.01	0.055	1.18	0.003	0.016	0.004	5.42	2.41	<0.01	1.80	0.073	0.009	
SF#3 (9742779)	0.07	<0.005	<0.01	0.221	0.34	<0.001	0.011	<0.001	26.3	<0.05	<0.01	0.307	0.020	<0.005	

Analyte:	Ni	Pb	S	Si	Sn	Tl	V	W	Zn
Unit:	%	%	%	%	%	%	%	%	%
RDL:	0.001	0.005	0.01	0.005	0.005	0.005	0.005	0.01	0.005
2W-50N (soil) EM#1A (9742758)	0.004	<0.005	0.05	30.8	<0.005	0.291	0.006	<0.01	0.005
EM#1 (9742762)	0.004	<0.005	0.06	32.4	<0.005	0.336	0.007	<0.01	<0.005
L3W #11 and L4W #14 (9742764)	0.004	<0.005	0.07	31.9	<0.005	0.215	0.007	<0.01	0.006
EM#10 (9742765)	0.012	<0.005	0.09	25.7	0.005	0.543	0.031	<0.01	0.008
EM#7 (9742766)	0.009	<0.005	0.12	25.3	0.010	0.416	0.023	<0.01	0.007
EM#5 (9742767)	0.009	<0.005	0.17	25.6	0.008	0.416	0.024	<0.01	0.007
4W-12A (9742768)	0.008	<0.005	0.05	25.1	0.014	0.378	0.022	<0.01	0.006
EM#4 (9742769)	0.009	<0.005	0.12	25.0	0.006	0.419	0.023	<0.01	0.007
EM#6 (9742770)	0.007	<0.005	0.10	25.5	0.009	0.428	0.024	<0.01	0.007
SW#2 (9742771)	0.008	<0.005	0.17	25.5	<0.005	0.410	0.019	<0.01	0.006
SF#2 (9742778)	0.007	<0.005	0.02	30.3	<0.005	0.382	0.011	<0.01	0.007
SF#3 (9742779)	0.001	<0.005	0.09	30.3	<0.005	<0.005	<0.005	<0.01	<0.005

Comments: RDL - Reported Detection Limit

**Certified By:**

*Sherin Hoossaf*

# Certificate of Analysis

AGAT WORK ORDER: 18T409215  
PROJECT: SC

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
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CLIENT NAME: BASELINE GEOMATERIALS INC.

ATTENTION TO: STEVE GOSSLING

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish															
DATE SAMPLED: Nov 27, 2018			DATE RECEIVED: Nov 14, 2018					DATE REPORTED: Dec 10, 2018				SAMPLE TYPE: Other			
Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm 1	Al % 0.01	As ppm 5	B ppm 20	Ba ppm 0.5	Be ppm 5	Bi ppm 0.1	Ca % 0.05	Cd ppm 0.2	Ce ppm 0.1	Co ppm 0.5	Cr % 0.005	Cs ppm 0.1	Cu ppm 5
EM#3 (9742759)		<1	7.23	13	<20	108	<5	<0.1	7.66	0.2	14.0	52.2	0.010	1.2	159
EM#12 (9742760)		<1	6.74	16	<20	42.0	<5	<0.1	2.36	<0.2	8.6	18.7	0.018	0.2	30
EM#12B (9742761)		<1	7.19	6	<20	133	<5	<0.1	4.26	<0.2	19.9	44.0	<0.005	0.6	172
Line1W and L4W #12 (9742763)		<1	7.04	<5	<20	108	<5	<0.1	6.77	<0.2	15.2	51.4	0.006	1.4	132
318A (9742772)		<1	4.14	10	<20	115	<5	<0.1	2.94	<0.2	26.5	18.6	0.015	0.5	93
SW#1 (9742773)		<1	7.08	<5	<20	89.3	<5	<0.1	8.25	<0.2	12.4	50.4	0.009	2.8	140
SW218A (9742774)		<1	7.02	5	<20	117	<5	<0.1	7.84	<0.2	13.6	51.1	0.007	2.5	146
SW222 (9742775)		<1	7.28	<5	<20	115	<5	<0.1	7.66	<0.2	12.8	50.1	0.007	2.0	142
SW313 (9742776)		<1	6.89	<5	<20	182	<5	<0.1	7.75	<0.2	20.8	48.5	0.008	1.3	163
SF#1 (9742777)		<1	0.16	<5	<20	288	<5	<0.1	0.98	<0.2	5.5	1.5	0.008	0.3	<5
Sample ID (AGAT ID)	Analyte: Unit: RDL:	Dy ppm 0.05	Er ppm 0.05	Eu ppm 0.05	Fe % 0.01	Ga ppm 0.01	Gd ppm 0.05	Ge ppm 1	Hf ppm 1	Ho ppm 0.05	In ppm 0.2	K % 0.05	La ppm 0.1	Li ppm 10	Lu ppm 0.05
EM#3 (9742759)		2.52	1.49	0.63	7.95	16.2	2.53	2	1	0.53	<0.2	0.46	6.4	11	0.20
EM#12 (9742760)		2.24	1.51	0.36	3.37	11.7	1.71	1	4	0.53	<0.2	0.10	3.8	<10	0.26
EM#12B (9742761)		3.25	1.78	0.87	9.18	15.9	3.71	2	1	0.65	<0.2	0.50	8.9	16	0.24
Line1W and L4W #12 (9742763)		2.60	1.49	0.69	8.29	16.9	2.63	2	1	0.55	<0.2	0.52	7.1	18	0.22
318A (9742772)		1.54	0.93	0.63	15.7	9.95	2.15	2	2	0.33	<0.2	0.33	13.0	<10	0.14
SW#1 (9742773)		2.25	1.35	0.55	7.21	15.8	2.25	2	1	0.51	<0.2	0.70	5.6	<10	0.19
SW218A (9742774)		2.36	1.40	0.64	7.43	16.2	2.44	2	1	0.48	<0.2	0.58	6.1	12	0.19
SW222 (9742775)		2.22	1.39	0.68	7.10	15.5	2.26	2	1	0.49	<0.2	0.53	5.9	16	0.18
SW313 (9742776)		3.05	1.73	0.81	6.80	15.8	3.26	2	1	0.60	<0.2	0.71	9.0	15	0.23
SF#1 (9742777)		0.82	0.52	0.55	30.3	0.57	0.80	7	<1	0.21	<0.2	<0.05	3.2	<10	0.08

Certified By: Sherin Hoossed



# AGAT Laboratories

## Certificate of Analysis

AGAT WORK ORDER: 18T409215  
PROJECT: SC

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
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TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: BASELINE GEOMATERIALS INC.

ATTENTION TO: STEVE GOSSLING

### (201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Nov 27, 2018		DATE RECEIVED: Nov 14, 2018					DATE REPORTED: Dec 10, 2018					SAMPLE TYPE: Other				
Sample ID (AGAT ID)	Analyte: Unit: RDL:	Mg %	Mn ppm	Mo ppm	Nb ppm	Nd ppm	Ni ppm	P %	Pb ppm	Pr ppm	Rb ppm	S %	Sb ppm	Sc ppm	Si %	
EM#3 (9742759)		4.28	1470	5	<1	7.7	89	<0.01	<5	1.79	15.9	0.12	0.1	39	25.6	
EM#12 (9742760)		1.71	599	11	6	5.1	46	<0.01	<5	1.10	2.3	0.02	0.5	15	32.6	
EM#12B (9742761)		4.55	1460	<2	<1	11.3	98	0.01	<5	2.66	21.8	0.08	0.7	39	24.5	
Line1W and L4W #12 (9742763)		4.29	1440	3	<1	8.8	79	0.03	<5	2.01	21.7	0.15	0.2	37	25.3	
318A (9742772)		1.76	786	16	2	11.5	58	0.09	<5	3.02	13.9	0.29	1.0	8	28.0	
SW#1 (9742773)		4.52	1330	3	<1	7.3	104	0.01	<5	1.65	25.6	0.15	0.2	38	24.9	
SW218A (9742774)		4.68	1390	2	<1	7.8	94	<0.01	6	1.79	24.6	0.11	0.5	38	25.4	
SW222 (9742775)		4.53	1420	2	<1	7.3	98	0.02	<5	1.63	19.2	0.13	0.7	37	25.1	
SW313 (9742776)		4.85	1400	2	<1	11.6	113	0.04	8	2.66	25.3	0.14	0.7	41	25.6	
SF#1 (9742777)		1.00	224	5	<1	2.7	8	0.05	<5	0.64	1.1	0.02	1.8	<5	25.3	
Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Ti %	Tl ppm	Tm ppm	U ppm	V ppm	W ppm	Y ppm	Yb ppm	
EM#3 (9742759)		2.0	<1	178	<0.5	0.42	1.5	0.40	<0.5	0.20	0.42	240	<1	13.3	1.4	
EM#12 (9742760)		1.3	<1	98.4	<0.5	0.36	8.6	0.18	<0.5	0.23	1.41	84	<1	13.5	1.7	
EM#12B (9742761)		3.2	<1	109	<0.5	0.59	1.6	0.39	<0.5	0.23	0.41	228	<1	18.0	1.7	
Line1W and L4W #12 (9742763)		2.4	<1	169	<0.5	0.44	1.7	0.44	<0.5	0.23	0.53	245	<1	14.2	1.4	
318A (9742772)		2.3	<1	151	<0.5	0.29	1.6	0.25	<0.5	0.13	0.37	52	4	9.7	0.9	
SW#1 (9742773)		2.0	1	195	<0.5	0.38	1.3	0.38	<0.5	0.20	0.41	233	<1	12.7	1.3	
SW218A (9742774)		1.9	<1	171	<0.5	0.37	1.5	0.38	<0.5	0.20	0.51	231	<1	12.9	1.3	
SW222 (9742775)		1.9	<1	184	<0.5	0.39	1.3	0.37	<0.5	0.20	0.43	225	<1	12.5	1.2	
SW313 (9742776)		2.8	<1	219	<0.5	0.52	2.2	0.38	<0.5	0.25	0.73	216	<1	15.7	1.6	
SF#1 (9742777)		0.6	<1	119	<0.5	0.12	0.1	<0.01	<0.5	0.09	<0.05	<5	<1	7.9	0.5	

Certified By:

*Sherein Houssaf*



**AGAT** Laboratories

**Certificate of Analysis**  
AGAT WORK ORDER: 18T409215  
PROJECT: SC

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
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http://www.agatlabs.com

CLIENT NAME: BASELINE GEOMATERIALS INC.

ATTENTION TO: STEVE GOSSLING

**(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish**

DATE SAMPLED: Nov 27, 2018

DATE RECEIVED: Nov 14, 2018

DATE REPORTED: Dec 10, 2018

SAMPLE TYPE: Other

Sample ID (AGAT ID)	Analyte:	Zn	Zr
	Unit:	ppm	ppm
	RDL:	5	0.5
EM#3 (9742759)		83	43.6
EM#12 (9742760)		27	140
EM#12B (9742761)		87	31.3
Line1W and L4W #12 (9742763)		80	51.0
318A (9742772)		39	72.4
SW#1 (9742773)		71	41.0
SW218A (9742774)		67	43.6
SW222 (9742775)		65	41.0
SW313 (9742776)		111	48.2
SF#1 (9742777)		103	<0.5

Comments: RDL - Reported Detection Limit

**Certified By:**

*Sherin Hoossaf*



**AGAT** Laboratories

### Certificate of Analysis

AGAT WORK ORDER: 18T409215  
PROJECT: SC

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CLIENT NAME: BASELINE GEOMATERIALS INC.

ATTENTION TO: STEVE GOSSLING

**(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)**

DATE SAMPLED: Nov 27, 2018

DATE RECEIVED: Nov 14, 2018

DATE REPORTED: Dec 10, 2018

SAMPLE TYPE: Other

	Analyte:	Au
	Unit:	ppm
Sample ID (AGAT ID)	RDL:	0.001
SF#2 (9742778)		0.002
SF#3 (9742779)		0.051

Comments: RDL - Reported Detection Limit

**Certified By:**



**CLIENT NAME: BASELINE GEOMATERIALS INC.**

**ATTENTION TO: STEVE GOSSLING**

**(201-079) Sodium Peroxide Fusion - ICP-OES finish**

Parameter	REPLICATE #1				RPD													
	Sample ID	Original	Replicate	RPD														
Al	9742770	7.21	7.19	0.3%														
As	9742770	0.005	< 0.005															
B	9742770	< 0.01	< 0.01	0.0%														
Ba	9742770	0.011	0.011	0.0%														
Ca	9742770	7.76	7.69	0.9%														
Co	9742770	0.0044	0.0048	8.7%														
Cr	9742770	0.005	0.005	0.0%														
Cu	9742770	0.011	0.011	0.0%														
Fe	9742770	7.86	7.85	0.1%														
K	9742770	0.53	0.52	1.9%														
Li	9742770	< 0.01	< 0.01	0.0%														
Mg	9742770	4.26	4.28	0.5%														
Mn	9742770	0.143	0.143	0.0%														
Mo	9742770	0.007	0.007	0.0%														
Ni	9742770	0.007	0.007	0.0%														
Pb	9742770	< 0.005	< 0.005	0.0%														
S	9742770	0.10	0.11	9.5%														
Si	9742770	25.5	25.4	0.4%														
Sn	9742770	0.009	< 0.005															
Ti	9742770	0.428	0.424	0.9%														
V	9742770	0.024	0.024	0.0%														
W	9742770	< 0.01	< 0.01	0.0%														
Zn	9742770	0.007	0.007	0.0%														

**(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish**

Parameter	REPLICATE #1				RPD													
	Sample ID	Original	Replicate	RPD														
Ag	9742759	< 1	< 1	0.0%														
Al	9742759	7.23	7.18	0.7%														
As	9742759	13	6															
B	9742759	< 20	< 20	0.0%														
Ba	9742759	108	106	1.9%														





**CLIENT NAME: BASELINE GEOMATERIALS INC.**

**ATTENTION TO: STEVE GOSSLING**

Be	9742759	< 5	< 5	0.0%																
Bl	9742759	< 0.1	< 0.1	0.0%																
Ca	9742759	7.66	7.59	0.9%																
Cd	9742759	0.2	< 0.2																	
Ce	9742759	14.0	13.3	5.1%																
Co	9742759	52.2	52.2	0.0%																
Cr	9742759	0.0095	0.0072	27.5%																
Cs	9742759	1.18	1.13	4.3%																
Cu	9742759	159	153	3.8%																
Dy	9742759	2.52	2.37	6.1%																
Er	9742759	1.49	1.44	3.4%																
Eu	9742759	0.633	0.707	11.0%																
Fe	9742759	7.95	7.82	1.6%																
Ga	9742759	16.2	16.5	1.8%																
Gd	9742759	2.53	2.45	3.2%																
Ge	9742759	2	2	0.0%																
Hf	9742759	1	1	0.0%																
Ho	9742759	0.532	0.558	4.4%																
In	9742759	< 0.2	< 0.2	0.0%																
K	9742759	0.456	0.427	6.6%																
La	9742759	6.35	6.01	5.5%																
Li	9742759	11	9	20.0%																
Lu	9742759	0.20	0.20	0.0%																
Mg	9742759	4.26	4.22	0.9%																
Mn	9742759	1470	1450	1.4%																
Mo	9742759	5	4	22.2%																
Nb	9742759	< 1	< 1	0.0%																
Nd	9742759	7.75	7.79	0.5%																
Ni	9742759	89	86	3.4%																
P	9742759	< 0.01	0.01																	
Pb	9742759	< 5	< 5	0.0%																
Pr	9742759	1.79	1.68	6.3%																
Rb	9742759	15.9	15.4	3.2%																
S	9742759	0.12	0.12	0.0%																



# AGAT Laboratories

**Quality Assurance - Replicate**  
**AGAT WORK ORDER: 18T409215**  
**PROJECT: SC**

5623 McADAM ROAD  
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**CLIENT NAME: BASELINE GEOMATERIALS INC.**

**ATTENTION TO: STEVE GOSSLING**

Sb	9742759	0.1	< 0.1											
Sc	9742759	39	39	0.0%										
Si	9742759	25.6	25.2	1.6%										
Sm	9742759	1.99	1.93	3.1%										
Sn	9742759	< 1	< 1	0.0%										
Sr	9742759	178	177	0.6%										
Ta	9742759	< 0.5	< 0.5	0.0%										
Tb	9742759	0.42	0.40	4.9%										
Th	9742759	1.5	1.5	0.0%										
Ti	9742759	0.40	0.39	2.5%										
Ti	9742759	< 0.5	< 0.5	0.0%										
Tm	9742759	0.20	0.20	0.0%										
U	9742759	0.42	0.42	0.0%										
V	9742759	240	235	2.1%										
W	9742759	< 1	< 1	0.0%										
Y	9742759	13.3	13.0	2.3%										
Yb	9742759	1.40	1.24	12.1%										
Zn	9742759	83	77	7.5%										
Zr	9742759	43.6	44.3	1.6%										
<b>(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)</b>														
		<b>REPLICATE #1</b>												
<b>Parameter</b>	<b>Sample ID</b>	<b>Original</b>	<b>Replicate</b>	<b>RPD</b>										
Au	9742779	0.051	0.017											



CLIENT NAME: BASELINE GEOMATERIALS INC.

ATTENTION TO: STEVE GOSSLING

**(201-079) Sodium Peroxide Fusion - ICP-OES finish**

Parameter	CRM #1 (ref.SY-4)				Limits													
	Expect	Actual	Recovery															
Al	10.95	10.69	98%		90% - 110%													
Ca	5.72	5.64	99%		90% - 110%													
Fe	4.34	4.26	98%		90% - 110%													
K	1.37	1.37	100%		90% - 110%													
Mg	0.325	0.299	92%		90% - 110%													
Si	23.3	24.2	104%		90% - 110%													
Ti	0.172	0.167	97%		90% - 110%													

**(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish**

Parameter	CRM #1 (ref.SY-4)				Limits													
	Expect	Actual	Recovery															
Al	10.95	10.56	96%		90% - 110%													
Ba	340	314	92%		90% - 110%													
Be	2.6	2.9	110%		90% - 110%													
Ca	5.72	5.61	98%		90% - 110%													
Ce	122	129	106%		90% - 110%													
Co	2.8	2.6	94%		90% - 110%													
Cs	1.5	1.6	107%		90% - 110%													
Dy	18.2	18.6	102%		90% - 110%													
Er	14.2	14.9	105%		90% - 110%													
Eu	2.0	1.9	97%		90% - 110%													
Fe	4.34	4.21	97%		90% - 110%													
Ga	35	36	103%		90% - 110%													
Gd	14	15	106%		90% - 110%													
Hf	10.6	10.2	97%		90% - 110%													
Ho	4.3	4.6	107%		90% - 110%													
K	1.37	1.36	99%		90% - 110%													
La	58	59	103%		90% - 110%													
Li	37	40	108%		90% - 110%													
Lu	2.1	2.1	102%		90% - 110%													
Mg	0.325	0.298	92%		90% - 110%													
Mn	836	816	98%		90% - 110%													



**Quality Assurance - Certified Reference materials**  
**AGAT WORK ORDER: 18T409215**  
**PROJECT: SC**

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**CLIENT NAME: BASELINE GEOMATERIALS INC.**

**ATTENTION TO: STEVE GOSSLING**

Nb	13	12	91%	90% - 110%																
Nd	57	59	104%	90% - 110%																
Ni	9	10	115%	90% - 110%																
Pb	10	10	96%	90% - 110%																
Pr	15.0	15.5	104%	90% - 110%																
Rb	55	53	96%	90% - 110%																
Si	23.3	24	103%	90% - 110%																
Sm	12.7	12.4	98%	90% - 110%																
Sn	7.1	7.3	102%	90% - 110%																
Sr	1191	1181	99%	90% - 110%																
Tb	2.6	2.8	109%	90% - 110%																
Th	1.4	1.3	95%	90% - 110%																
Ti	0.172	0.165	96%	90% - 110%																
Tm	2.3	2.3	101%	90% - 110%																
U	0.8	0.8	99%	90% - 110%																
Y	119	119	100%	90% - 110%																
Yb	14.8	15.6	105%	90% - 110%																
Zn	93	97	104%	90% - 110%																
Zr	517	523	101%	90% - 110%																

**(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)**

CRM #1 (ref.GS6E)																				
Parameter	Expect	Actual	Recovery	Limits																
Au	6.06	6.16	102%	90% - 110%																

## Method Summary

CLIENT NAME: BASELINE GEOMATERIALS INC.

AGAT WORK ORDER: 18T409215

PROJECT: SC

ATTENTION TO: STEVE GOSSLING

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
<b>Solid Analysis</b>			
Sample Login Weight	MIN-12009		BALANCE
Al	MIN-200-12001		ICP/OES
As	MIN-200-12001		ICP/OES
B	MIN-200-12001		ICP/OES
Ba	MIN-200-12001		ICP/OES
Ca	MIN-200-12001		ICP/OES
Co	MIN-200-12001		ICP/OES
Cr	MIN-200-12001		ICP/OES
Cu	MIN-200-12001		ICP/OES
Fe	MIN-200-12001		ICP/OES
K	MIN-200-12001		ICP/OES
Li	MIN-200-12001		ICP/OES
Mg	MIN-200-12001		ICP/OES
Mn	MIN-200-12001		ICP/OES
Mo	MIN-200-12001		ICP/OES
Ni	MIN-200-12001		ICP/OES
Pb	MIN-200-12001		ICP/OES
S	MIN-200-12001		ICP/OES
Si	MIN-200-12001		ICP/OES
Sn	MIN-200-12001		ICP/OES
Ti	MIN-200-12001		ICP/OES
V	MIN-200-12001		ICP/OES
W			ICP/OES
Zn	MIN-200-12001		ICP/OES
Ag			ICP/MS
As	MIN-200-12001		ICP/MS
Be	MIN-200-12001		ICP/OES
Bi	MIN-200-12001		ICP-MS
Cd	MIN-200-12001		ICP-MS
Ce	MIN-200-12001		ICP-MS
Co	MIN-200-12001		ICP/MS
Cs	MIN-200-12001		ICP-MS
Dy	MIN-200-12001		ICP-MS
Er	MIN-200-12001		ICP-MS
Eu	MIN-200-12001		ICP-MS
Ga	MIN-200-12001		ICP-MS
Gd	MIN-200-12001		ICP-MS
Ge	MIN-200-12001		ICP-MS
Hf	MIN-200-12001		ICP-MS
Ho	MIN-200-12001		ICP-MS
In	MIN-200-12001		ICP-MS
La	MIN-200-12001		ICP-MS
Lu	MIN-200-12001		ICP-MS
Mo	MIN-200-12001		ICP/MS
Nb	MIN-200-12001		ICP-MS
Nd	MIN-200-12001		ICP-MS
P			ICP/OES
Pb	MIN-200-12001		ICP/MS
Pr	MIN-200-12001		ICP-MS

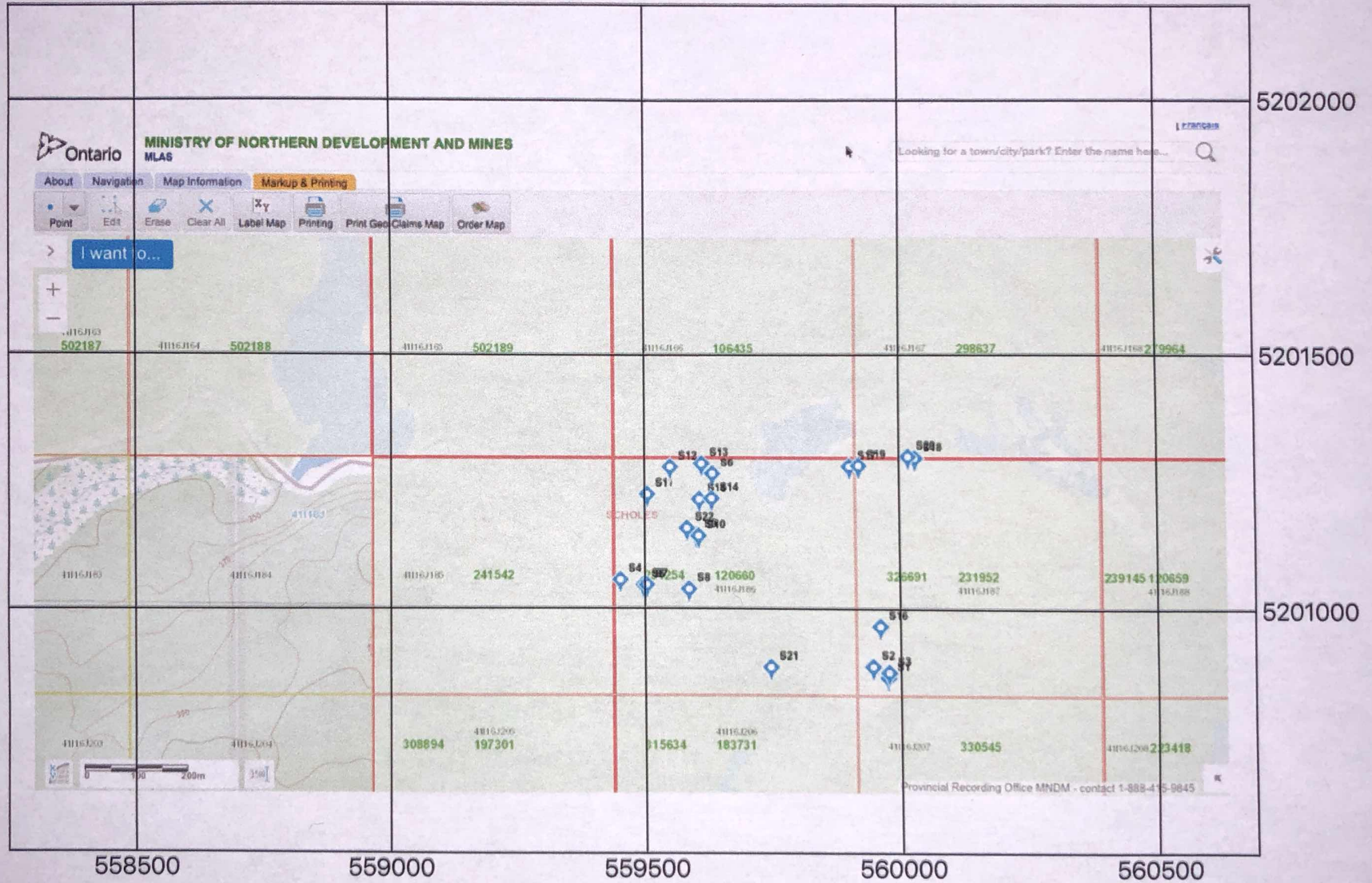
## Method Summary

**CLIENT NAME: BASELINE GEOMATERIALS INC.**
**AGAT WORK ORDER: 18T409215**
**PROJECT: SC**
**ATTENTION TO: STEVE GOSSLING**
**SAMPLING SITE:**
**SAMPLED BY:**

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Rb	MIN-200-12001		ICP/MS
Sb	MIN-200-12001		ICP-MS
Sc	MIN-200-12001		ICP/OES
Sm	MIN-200-12001		ICP-MS
Sn	MIN-200-12001		ICP/MS
Sr	MIN-200-12001		ICP-OES
Ta	MIN-200-12001		ICP-MS
Tb	MIN-200-12001		ICP-MS
Th	MIN-200-12001		ICP-MS
Tl	MIN-200-12001		ICP-MS
Tm	MIN-200-12001		ICP-MS
U	MIN-200-12001		ICP-MS
W	MIN-200-12001		ICP-MS
Y	MIN-200-12001		ICP-MS
Yb	MIN-200-12001		ICP-MS
Zr	MIN-200-12001		ICP-MS
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES

## Appendix 3 – Map(s)

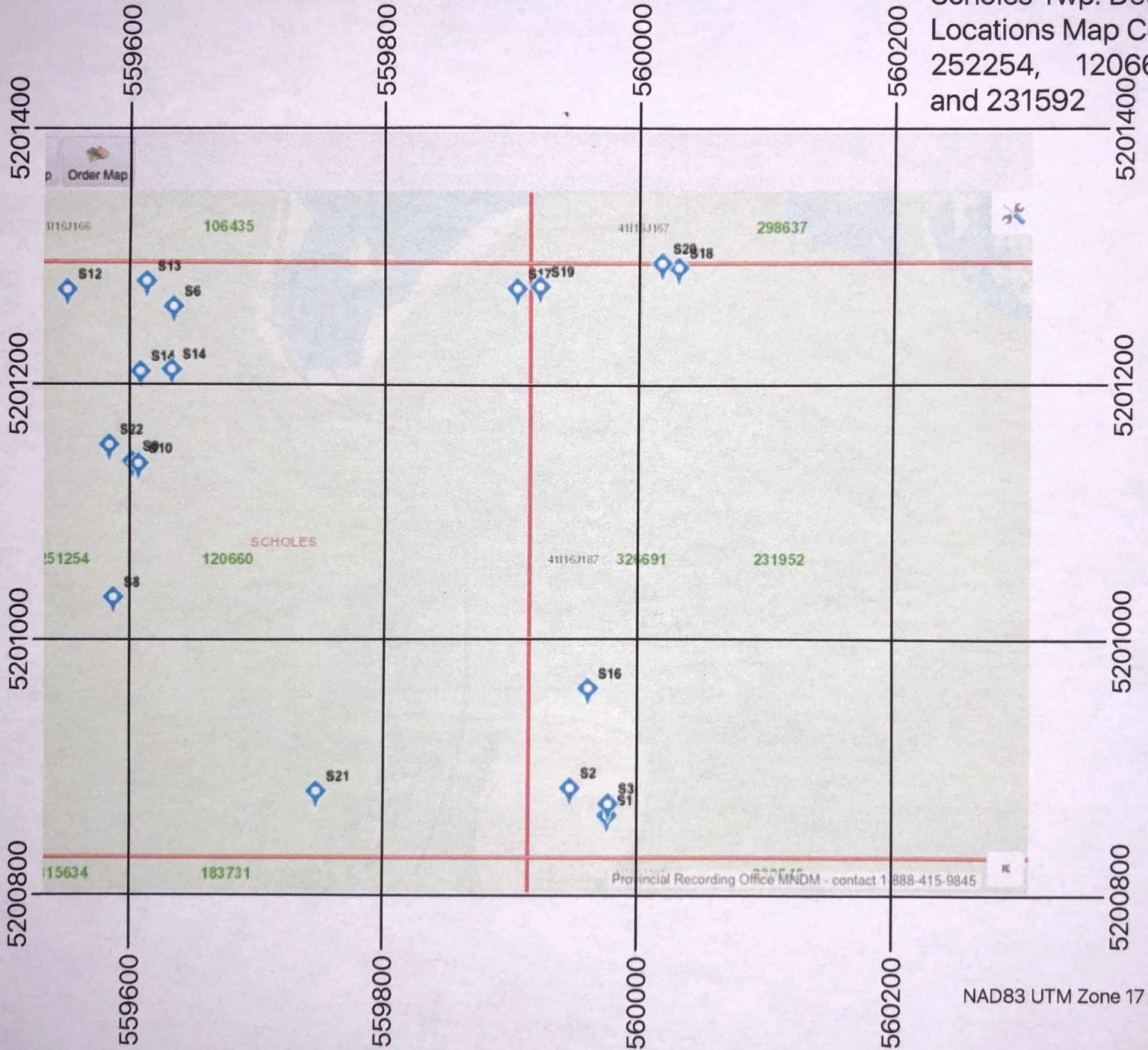
# Scholes Twp. Sample Locations - Fall 2018



NAD83 UTM Zone 17

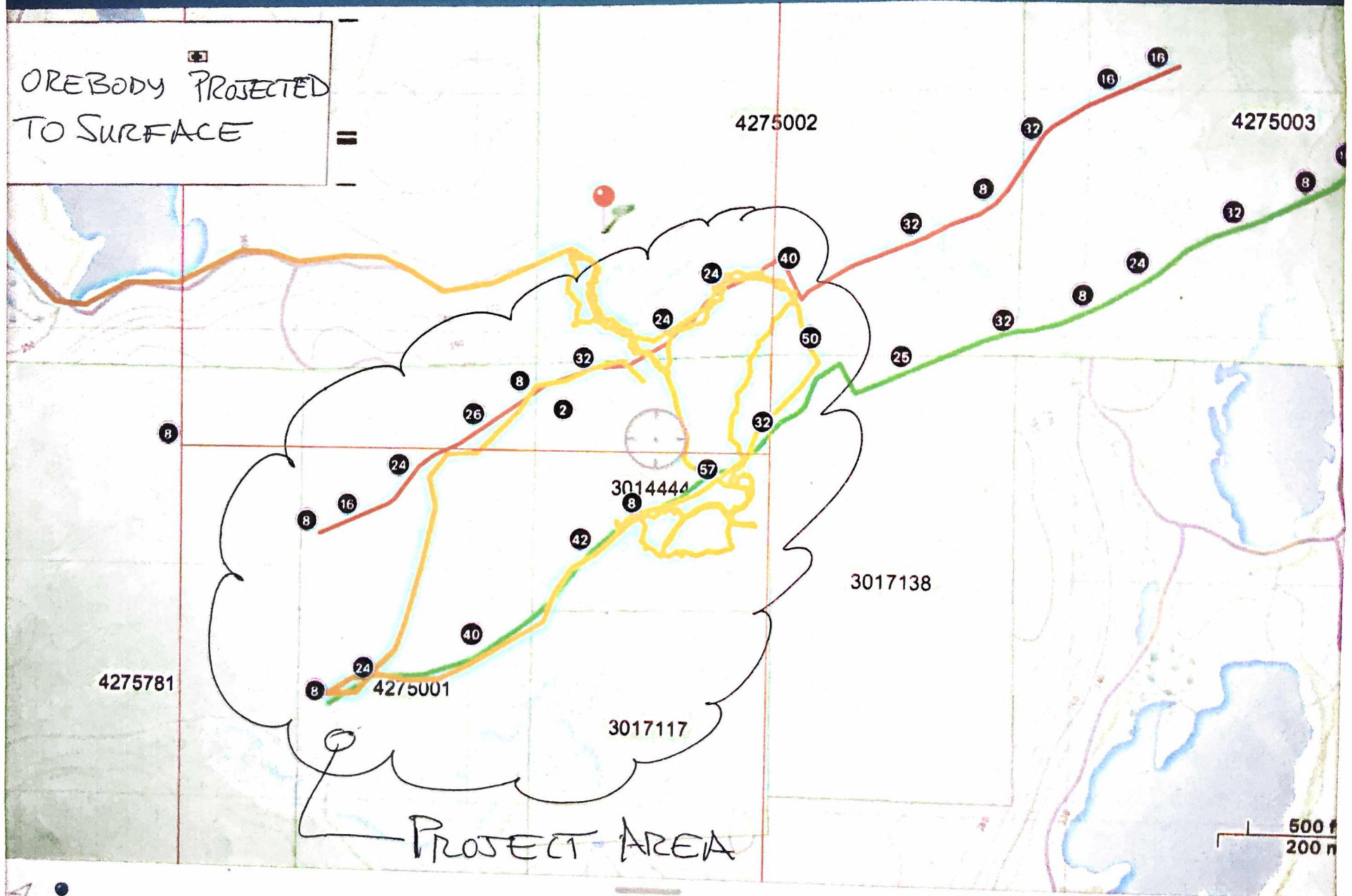


Scholes Twp. Detailed Sample Locations Map Cells  
 252254, 120660, 326691  
 and 231592



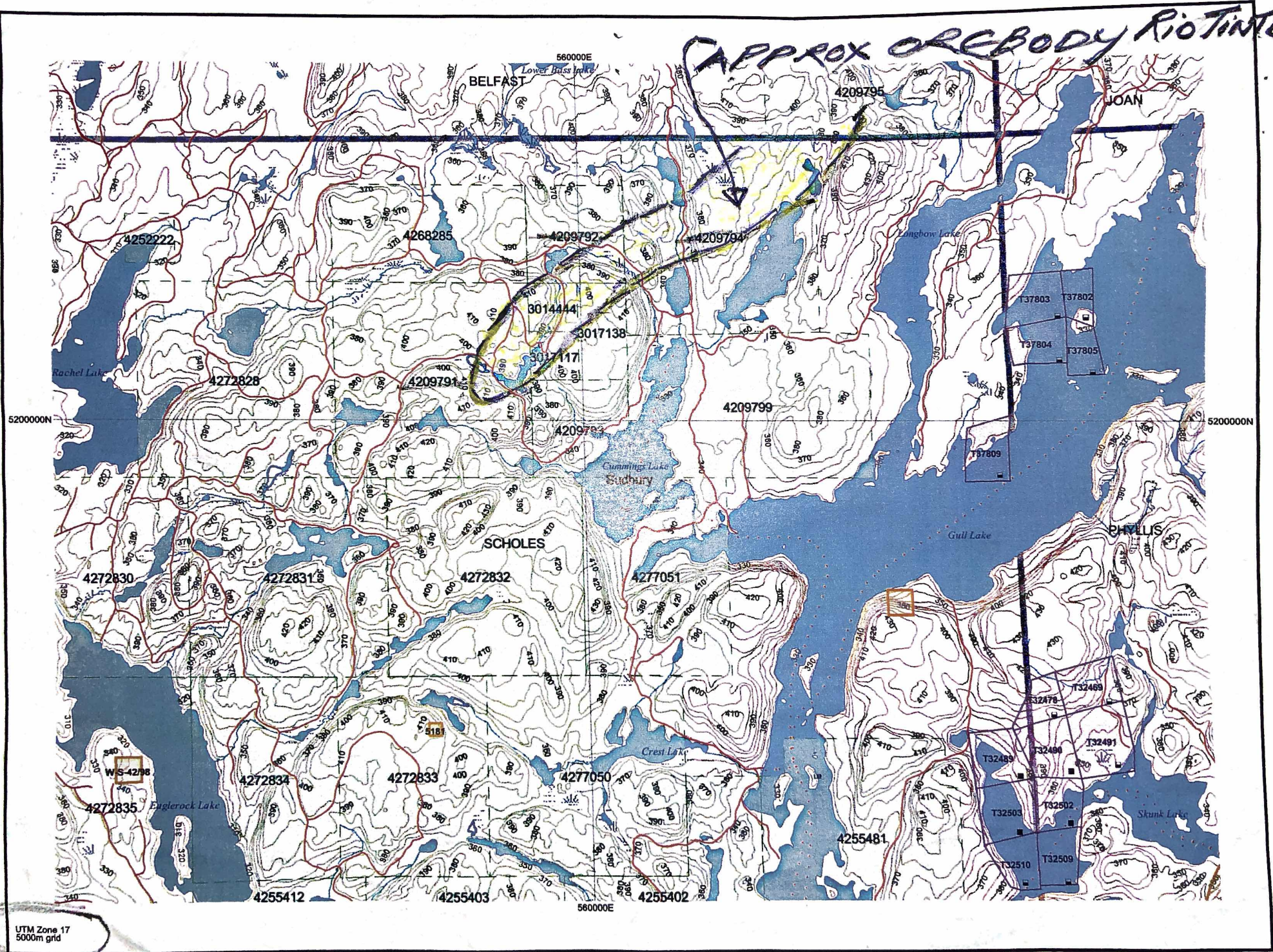
NAD83 UTM Zone 17

OREBODY PROJECTED TO SURFACE



PROJECT AREA

APPROX OREBODY RIO TINTO



UTM Zone 17  
5000m grid

2018-12-17

## **Appendix 4 – Costs**

(See Separate Submission)