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**Report on**  
**Analysis of Prospecting Samples**  
**Cardiff Twp. Ontario**  
**March 24, 2023**

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## **Summary**

Samples collected from a grass roots prospecting program carried out in Cardiff Township, Ontario during the fall of 2021 were sent to Swastka Laboratories, Ontario for sample preparation. Processed samples were sent to Bureau Veritas Commodities of Canada laboratory in Vancouver B.C. for analysis by a variety of methods for various elements as described below.

## **Work Program**

Samples collected in a grass roots prospecting program were sent to Swastika Laboratories in Swastika, Ontario where they were crushed and a portion pulverized to 90% minus 200 mesh. Pulps and rejects were shipped by bus to Skead Holdings Ltd. In Sault Ste. Marie, Ontario.

Samples pulps were placed in numbered coin envelopes indicating type of analysis and number which was recorded. Quantity of sample was 20 – 30 grams or 50 – 60 grams dependant on the type of analysis and minimum sample requirements. A description of marking for type of analysis is given under Analysis.

All 55 samples were analysed for 45 elements and fluorine, as well as selected samples for Au and rare earth elements. Samples were sent at various times for analysis by a variety of methods to Bureau Veritas Commodities Canada in Vancouver B.C.

Details of the prospecting program with sample collection and locations are included in the prospecting report a copy of which is appended.

Samples are listed with UTM co ordinates for location as well as by claim number.

## Analysis

Samples obtained from Swastika Labs after processing to 90% minus 200 mesh were placed in coin envelopes and sent to Bureau Veritas Labs in Vancouver B.C.

The letters preceding the number indicates the method of analysis. IMA is for ICP – MS/ES analysis of a 0.25 gram split for 45 elements after 4-aciddissolution. REE is for ICP – MS/ES analysis of a 0.20 gram split for 31 elements covering most of the rare earth and refractory elements after a lithium borate fusion. A is for ICP – MS analysis of a 15 gram sample for Au after an aqua-regia digestion. F designates analysis for a 0.20 gram sample for fluorine by specific ion electrode method.

## Results

Analytical results of samples for various elements are given in Appendix II. Further prospecting and possibly exploration stripping are indicated in a number of areas for possible rare earth and/or fluorine mineralization. Fluorine in particular appears to be elevated over much of the prospecting area.

March 24, 2023

Respectfully submitted

R.A. MacGregor P. Eng  
for Skead Holdings Ltd.

## Costs

<b>Sample Prep</b>		55 samples @ 14.00	770.00
<b>Analysis</b>	IMA	56 samples @ 29.85	1671.60
	F	54 samples @ 25.80	1393.20
	F	1 sample @ 29.15	29.15
	REE	9 samples @ 38.90	350.10
	A	2 samples @ 24.10	48.20
<b>Shipping</b>		Bus, Postage	84.76
		Dec. 15/21 to Feb. 10/23 (Daily Log) 15hrs @ 50.00	750.00
<b>Report</b>		March 24/23	500.00
		<b>Total</b>	<b>5598</b>

## Sample Location by Claim Number

Claim No.	Number of Samples	Assessment Credit
139467	5	596
172463	3	324
229673	4	376
248153	6	648
271057	5	512
287267	6	606
556368	4	376
556369	8	752
575200	10	1032
575201	4	376
<b>Total</b>	<b>55</b>	<b>5598</b>

## **Appendix I**

### **Sampling**



## HAL – 01 GRABS

Sample No.	IMA	F	REE	Location	UTM	Zone 17
580035	5993	119		723100E	4990220N	
580036	5994	043		723125E	4990171N	
580037	5995	120		723280E	4990108N	
580038	5996	053		723151E	4990310N	
580039	5997	121		723030 E	4990394N	
580040	5998	044		723058E	4990394N	
580041	5999	075		723238E	4990523N	
580042	6000	074		722673E	4990190N	
580043	6001	052		722776E	4990299N	
580044	6002	045	846	722752E	4990302N	
580045	6003	073		722745E	4990292N	
580046	6004	072		723107E	4990602N	
580047	6005	071		723183E	4990722N	
580048	6006	046		723106E	4990829N	
580049	6007	070		723292E	4990842N	
580050	6008	069		722894E	4990446N	
580051	6009	068		723243E	4991867N	
580052	5989	041	847	723300E	4991830N	
580053	6010	067		723375E	4991849N	
580054	6011	066		723410E	4991891N	
580055	6012	065		723041E	4991448N	
580056	6013	047		723170E	4991492N	
580057	6014	064		723241E	4991486N	
580058	6015	063		723221E	4991598N	

## HAL – 01 GRABS

Sample No.	IMA	F	REE	A	Location	UTM	Zone 17
580059	6016	062		1173	723198E	4991525N	
580060	6017	048		1174	723198E	4991525N	
580061	6018	061			723097E	4990514N	
580062	6019	060			722892E	4990065N	
580063	6020	059			723797E	4991796N	
580064	6021	049			723786E	4991737N	
580065	6022	050			723853E	4991710N	
580066	6023	051			723882E	4991574N	

**Appendix II**

**Certificate of Analysis**



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

[www.bvna.com/mining-laboratory-services](http://www.bvna.com/mining-laboratory-services)

Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

**Client:** **MacGregor, R.A.**  
28 Ford St.  
Sault Ste. Marie Ontario P6A 4N4 Canada

Submitted By: R.A. MacGregor  
Receiving Lab: Canada-Vancouver  
Received: August 29, 2022  
Analysis Start: August 31, 2022  
Report Date: September 09, 2022  
Page: 1 of 4

## CERTIFICATE OF ANALYSIS

VAN22002640.1

### CLIENT JOB INFORMATION

Project: None Given  
Shipment ID:  
P.O. Number  
Number of Samples: 76

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SLBHP	76	Sorting, labeling and boxing samples received as pulps			VAN
LF100	76	Refractory and REEs by fusion and ICP-MS analysis	0.2	Completed	VAN

### SAMPLE DISPOSAL

IMM-PLP Return immediately after analysis

### ADDITIONAL COMMENTS

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: **MacGregor, R.A.**  
28 Ford St.  
Sault Ste. Marie Ontario P6A 4N4  
Canada

CC:

  
KERRY JAY  
Geochem Project Specialist

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. "\*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

**Project:** None Given  
**Report Date:** September 09, 2022

**Page:** 3 of 4 **Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

**VAN22002640.1**

Method	Analyte	Unit	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100		
			Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr
MDL			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
REE816	Rock Pulp		580	2	11.9	0.3	4.3	4.6	46.6	128.4	<1	24.3	6.0	557.3	85.8	16	1.6	147.9	65.9	689.3	1238.8	125.68
REE817	Rock Pulp		725	2	13.4	0.9	6.2	3.5	40.6	178.5	1	26.8	5.8	667.1	125.3	14	1.2	120.3	67.2	778.4	1386.0	141.41
REE818	Rock Pulp		783	<1	13.8	0.5	6.7	4.3	35.8	167.2	2	25.5	4.8	504.3	114.2	9	5.0	145.6	50.5	584.4	1031.4	105.77
REE819	Rock Pulp		711	3	35.9	0.8	8.1	9.7	86.1	173.9	2	28.9	11.5	1130.4	192.0	22	3.0	319.1	89.1	1265.5	2313.8	233.77
REE820	Rock Pulp		665	<1	28.1	0.5	7.1	5.6	77.9	164.5	1	27.0	10.1	826.3	171.1	17	3.2	185.0	76.8	903.6	1609.4	165.22
REE821	Rock Pulp		604	<1	24.6	0.5	6.1	4.2	65.1	138.8	1	27.0	9.2	987.8	225.3	14	3.2	135.8	84.4	1089.4	1941.9	199.97
REE822	Rock Pulp		699	<1	30.2	0.6	7.9	6.2	45.9	166.8	1	26.8	6.2	462.1	80.0	14	1.4	209.3	46.6	615.2	1103.1	110.63
REE823	Rock Pulp		651	<1	31.8	0.8	6.4	5.3	46.6	150.8	1	24.1	6.0	551.5	97.5	14	2.4	170.7	48.7	672.8	1230.4	122.44
REE824	Rock Pulp		918	<1	44.4	1.0	9.1	4.4	34.3	193.0	<1	31.3	4.5	689.3	170.0	10	1.5	142.8	68.5	803.5	1429.9	146.63
REE825	Rock Pulp		686	3	29.1	1.5	10.9	5.1	58.1	158.2	2	39.6	8.5	1565.5	707.0	21	1.4	179.2	173.3	1671.2	3085.0	310.76
REE826	Rock Pulp		536	<1	9.9	0.2	5.6	4.3	45.3	111.8	<1	26.9	6.1	609.6	94.4	20	0.7	152.0	72.8	770.7	1378.7	137.77
REE827	Rock Pulp		494	1	23.3	0.7	10.1	4.9	70.0	161.5	3	18.1	9.6	1152.7	481.4	13	1.0	158.0	145.4	1183.6	2101.8	215.55
REE828	Rock Pulp		424	2	27.3	0.7	8.1	9.3	162.7	144.6	4	20.9	21.7	1760.9	411.5	21	2.0	312.0	185.2	1930.2	3516.6	352.87
REE829	Rock Pulp		606	2	2.5	0.8	11.6	3.8	27.8	203.7	2	13.7	3.8	499.1	129.9	8	0.9	122.2	57.2	499.6	882.2	88.17
REE830	Rock Pulp		705	3	5.2	0.5	9.5	6.9	58.5	198.3	3	19.9	7.8	560.3	101.5	14	2.1	228.1	56.7	616.8	1124.9	110.86
REE831	Rock Pulp		638	1	32.7	0.4	4.2	2.4	20.3	149.8	<1	17.8	3.3	348.7	92.9	9	1.0	82.0	36.6	337.3	608.1	61.27
REE832	Rock Pulp		770	1	10.5	0.7	5.9	3.7	31.7	178.1	<1	25.3	4.4	631.6	156.2	9	1.0	130.6	66.6	698.0	1239.9	125.79
REE833	Rock Pulp		785	<1	24.6	0.8	6.5	4.9	31.6	178.2	<1	24.0	4.0	463.8	109.7	12	3.3	167.7	51.4	490.4	891.3	89.26
REE834	Rock Pulp		611	<1	21.0	0.8	8.1	4.9	65.3	177.5	2	20.3	8.7	1032.9	219.3	15	1.0	176.7	105.0	1095.8	1918.9	197.63
REE835	Rock Pulp		738	<1	7.8	0.8	9.6	6.0	41.8	183.2	1	22.7	5.9	531.2	100.9	13	1.1	199.1	57.9	587.0	1075.0	106.84
REE836	Rock Pulp		809	<1	30.7	0.5	8.4	4.9	36.6	177.0	1	24.2	4.8	701.7	121.3	9	2.2	167.0	71.4	801.4	1424.0	142.79
REE837	Rock Pulp		10372	<1	5.7	1.7	15.7	9.4	11.7	41.9	<1	1275.9	0.7	41.2	11.6	35	1.1	382.7	23.1	194.9	373.0	42.54
REE838	Rock Pulp		8784	3	3.9	1.4	13.5	5.7	6.6	27.3	<1	712.4	0.3	40.0	5.3	29	3.2	217.3	12.5	401.4	678.9	67.24
REE839	Rock Pulp		1030	2	2.2	3.2	19.2	4.6	34.1	283.9	<1	338.3	2.3	100.6	25.0	<8	<0.5	153.5	68.1	13.7	60.9	3.55
REE840	Rock Pulp		104	22	3.9	1.0	38.5	26.1	48.3	49.0	9	141.4	3.2	35.4	14.1	<8	0.6	1320.1	211.2	96.6	198.5	23.29
REE841	Rock Pulp		181	25	2.6	1.7	49.7	53.2	101.4	157.1	21	144.4	6.9	38.2	18.3	<8	0.7	2568.5	301.9	90.7	236.7	25.13
REE842	Rock Pulp		75	<1	33.6	0.8	12.8	1.0	1.3	14.9	<1	358.1	<0.1	0.8	0.3	182	7.0	36.9	18.9	5.8	8.7	1.36
REE843	Rock Pulp		141	2	35.6	0.7	18.0	2.7	1.4	25.2	6	200.0	0.1	0.3	0.7	343	3.7	87.7	56.3	10.4	27.0	3.78
REE844	Rock Pulp		673	3	1.5	1.4	21.4	1.7	7.9	222.8	<1	309.7	0.5	267.8	59.0	<8	<0.5	58.6	414.2	399.3	895.0	99.88
REE845	Rock Pulp		340	17	3.6	1.0	35.4	10.7	11.0	77.0	17	334.6	1.8	815.5	248.9	9	2.0	332.7	3348.2	1791.7	4177.9	514.08



Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

Client: **MacGregor, R.A.**  
28 Ford St.  
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given  
Report Date: September 09, 2022

Page: 3 of 4 Part: 2 of 2

# CERTIFICATE OF ANALYSIS

VAN22002640.1

Method	Analyte	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01
REE816	Rock Pulp	400.3	57.04	2.82	34.53	3.80	16.26	2.42	5.59	0.69	4.07	0.54
REE817	Rock Pulp	447.9	65.05	2.92	40.02	4.32	18.20	2.51	5.89	0.76	4.12	0.54
REE818	Rock Pulp	333.9	47.76	2.43	28.37	3.28	14.81	2.13	4.69	0.62	3.63	0.44
REE819	Rock Pulp	752.0	109.46	5.37	64.13	6.56	26.18	3.44	7.69	0.96	5.90	0.73
REE820	Rock Pulp	534.6	77.38	3.83	48.36	5.28	21.98	3.22	7.27	0.88	5.37	0.69
REE821	Rock Pulp	649.2	92.46	4.67	56.15	5.95	24.53	3.33	7.34	0.97	5.53	0.66
REE822	Rock Pulp	364.1	51.57	3.68	30.30	3.20	12.65	1.69	3.90	0.49	2.88	0.37
REE823	Rock Pulp	392.7	57.14	3.87	34.83	3.71	14.56	1.99	4.38	0.55	3.23	0.40
REE824	Rock Pulp	465.3	65.36	4.30	38.69	4.22	18.75	2.65	6.13	0.76	4.63	0.58
REE825	Rock Pulp	1003.1	147.05	7.93	94.36	10.75	48.34	7.11	16.14	2.09	11.09	1.37
REE826	Rock Pulp	435.7	64.21	3.16	40.44	4.47	19.66	2.72	6.37	0.73	4.47	0.54
REE827	Rock Pulp	696.0	102.28	4.21	70.03	8.08	38.30	5.66	13.16	1.74	10.31	1.26
REE828	Rock Pulp	1147.5	171.09	6.69	105.18	11.68	49.95	6.87	16.63	2.08	12.28	1.58
REE829	Rock Pulp	283.7	41.91	1.64	27.40	3.06	13.44	2.11	5.21	0.66	4.06	0.51
REE830	Rock Pulp	353.8	49.92	2.54	31.03	3.36	14.11	2.04	5.14	0.64	4.00	0.57
REE831	Rock Pulp	192.3	28.57	1.53	18.64	2.18	9.92	1.44	3.75	0.43	2.65	0.33
REE832	Rock Pulp	395.0	58.38	2.55	36.36	3.94	17.17	2.42	5.69	0.72	4.14	0.51
REE833	Rock Pulp	277.5	41.22	1.74	25.28	2.97	12.89	1.96	4.71	0.56	3.54	0.43
REE834	Rock Pulp	635.7	90.24	3.25	57.97	6.32	27.82	3.89	8.83	1.10	6.52	0.85
REE835	Rock Pulp	340.7	48.71	2.12	29.61	3.25	14.31	2.02	4.62	0.62	3.60	0.49
REE836	Rock Pulp	461.0	65.71	3.57	41.47	4.58	20.60	2.87	6.90	0.84	4.77	0.60
REE837	Rock Pulp	148.9	18.75	3.66	10.69	1.07	4.39	0.77	2.06	0.29	1.97	0.31
REE838	Rock Pulp	211.1	19.60	3.66	8.66	0.70	2.87	0.40	0.99	0.16	1.23	0.19
REE839	Rock Pulp	14.8	4.82	1.90	6.40	1.44	10.72	2.48	8.70	1.40	8.85	1.05
REE840	Rock Pulp	88.4	20.72	2.19	23.45	4.51	31.09	7.45	24.94	3.92	25.67	3.64
REE841	Rock Pulp	107.3	30.22	4.28	36.53	7.19	50.04	11.52	38.61	5.79	37.42	5.08
REE842	Rock Pulp	6.8	2.04	0.66	2.55	0.46	3.21	0.65	2.03	0.29	1.74	0.26
REE843	Rock Pulp	18.4	5.83	2.05	8.75	1.59	9.58	1.99	5.92	0.79	4.94	0.70
REE844	Rock Pulp	367.7	72.26	8.29	72.60	12.64	80.41	17.54	53.61	7.25	42.70	5.24
REE845	Rock Pulp	1978.9	430.60	56.11	500.32	94.46	637.78	149.60	471.76	63.35	347.23	39.16

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

[www.bvna.com/mining-laboratory-services](http://www.bvna.com/mining-laboratory-services)

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**Client:** MacGregor, R.A.  
28 Ford St.  
Sault Ste. Marie Ontario P6A 4N4 Canada

**Project:** None Given  
**Report Date:** September 09, 2022

**Page:** 4 of 4

**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

VAN22002640.1

Method	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	
Analyte	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1	0.02	
REE846	Rock Pulp	437	5	34.5	7.3	24.1	2.5	6.7	92.1	15	252.5	0.3	1.7	5.6	324	5.7	85.0	129.2	30.1	70.6	9.45
REE847	Rock Pulp	205	11	27.0	1.0	9.5	17.0	4.8	21.5	<1	97.2	0.4	267.3	16.4	116	<0.5	289.4	74.6	12.7	37.8	5.77
REE848	Rock Pulp	228	<1	8.3	0.5	5.3	3.0	17.7	85.2	<1	10.4	2.0	216.7	44.2	<8	<0.5	103.4	24.2	240.4	435.8	42.57
REE849	Rock Pulp	389	<1	7.5	1.0	11.1	5.2	31.7	162.9	2	15.4	4.0	168.2	29.8	10	0.6	171.7	25.0	207.1	374.6	36.58
REE850	Rock Pulp	333	3	8.6	0.8	10.4	6.2	34.7	150.8	2	12.3	4.1	192.8	33.2	10	<0.5	214.9	25.5	226.2	411.4	40.11
REE851	Rock Pulp	88	14	33.9	0.9	21.8	17.0	317.4	90.4	15	51.0	23.8	68.6	18.9	28	15.8	617.3	72.1	126.9	234.6	23.75
REE852	Rock Pulp	198	4	9.9	1.3	42.7	39.8	108.3	133.0	12	118.5	8.6	1.1	1.9	35	<0.5	1627.5	107.1	24.8	68.2	10.21
REE853	Rock Pulp	283	2	5.2	0.8	41.0	58.7	48.0	100.1	8	493.1	4.9	2.0	4.6	28	<0.5	2509.0	96.4	203.2	270.6	28.85
REE854	Rock Pulp	126	2	3.6	1.4	47.7	31.0	79.1	115.6	4	86.6	6.0	24.3	2.3	<8	<0.5	1368.7	35.7	181.4	276.2	24.15
REE855	Rock Pulp	141	13	7.0	0.3	36.1	7.5	177.6	7.1	12	1764.4	6.4	3302.3	99.5	118	3.2	276.3	1588.5	19860.2	30064.8	2588.58
REE856	Rock Pulp	701	<1	7.1	0.6	7.1	2.7	26.4	126.3	<1	22.4	3.0	367.9	73.2	<8	0.8	93.9	47.0	418.0	738.3	73.26
REE857	Rock Pulp	625	<1	4.8	0.4	5.3	3.7	18.3	150.4	<1	16.9	2.1	99.4	16.6	<8	0.9	119.4	16.2	117.9	207.8	20.62
REE858	Rock Pulp	192	<1	2.3	<0.1	1.5	1.2	8.7	35.4	<1	10.4	1.2	110.1	22.6	<8	1.2	36.0	13.4	137.9	243.7	23.77
REE859	Rock Pulp	833	1	8.5	0.9	15.5	14.3	10.0	48.7	<1	348.4	0.6	8.3	3.8	71	<0.5	539.6	51.6	37.6	183.9	9.38
REE860	Rock Pulp	764	2	7.5	1.5	15.2	14.1	11.1	46.4	2	302.2	0.8	6.7	1.9	71	0.6	534.1	26.6	21.7	83.8	5.52
REE861	Rock Pulp	758	1	9.7	1.4	14.6	16.2	11.1	42.1	<1	317.5	0.7	6.7	3.3	67	0.8	602.5	32.1	25.7	125.3	6.92



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** MacGregor, R.A.  
28 Ford St.  
Sault Ste. Marie Ontario P6A 4N4 Canada

**Project:** None Given  
**Report Date:** September 09, 2022

**Page:** 4 of 4

**Part:** 2 of 2

# CERTIFICATE OF ANALYSIS

VAN22002640.1

Method	Analyte	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01
REE846	Rock Pulp	41.8	11.30	2.69	14.82	2.76	17.97	4.28	13.72	2.06	13.95	2.07
REE847	Rock Pulp	26.9	7.68	1.34	8.89	1.69	11.85	2.79	9.98	1.58	11.81	2.19
REE848	Rock Pulp	136.4	19.27	0.94	12.40	1.32	5.74	0.84	2.09	0.23	1.47	0.20
REE849	Rock Pulp	120.1	16.78	0.87	10.89	1.20	5.94	0.90	2.29	0.33	1.96	0.29
REE850	Rock Pulp	127.3	18.34	0.92	11.76	1.31	6.00	0.91	2.52	0.30	2.03	0.28
REE851	Rock Pulp	78.7	14.41	2.34	12.69	1.99	12.17	2.47	7.54	1.12	7.45	1.05
REE852	Rock Pulp	47.5	13.13	2.58	16.74	3.27	22.24	5.12	16.41	2.23	14.93	2.14
REE853	Rock Pulp	91.6	14.38	2.69	13.88	2.48	16.58	3.88	12.49	1.88	12.18	1.81
REE854	Rock Pulp	68.0	8.65	1.30	7.46	1.14	7.01	1.54	5.31	0.81	5.49	0.83
REE855	Rock Pulp	7391.7	764.41	78.74	530.92	64.26	332.80	64.17	189.39	26.06	153.16	17.76
REE856	Rock Pulp	231.3	32.75	1.61	20.78	2.35	10.68	1.66	3.93	0.47	2.72	0.36
REE857	Rock Pulp	64.6	9.45	0.48	5.88	0.72	3.54	0.58	1.52	0.16	1.10	0.16
REE858	Rock Pulp	77.7	10.63	0.81	6.81	0.74	3.41	0.54	1.36	0.14	0.97	0.12
REE859	Rock Pulp	38.2	8.40	1.74	8.72	1.52	9.71	2.21	6.73	1.00	6.89	0.94
REE860	Rock Pulp	22.1	4.95	1.35	4.82	0.82	5.27	1.10	3.22	0.50	3.23	0.53
REE861	Rock Pulp	26.7	5.96	1.50	5.81	0.98	5.76	1.24	3.94	0.57	3.85	0.61





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**Client:** MacGregor, R.A.  
28 Ford St.  
Sault Ste. Marie Ontario P6A 4N4 Canada

**Project:** None Given  
**Report Date:** September 09, 2022

**Page:** 1 of 1

**Part:** 1 of 2

## QUALITY CONTROL REPORT

VAN22002640.1

Method	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	
Analyte	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1	0.02	
Pulp Duplicates																					
REE789	Rock Pulp	572	2	22.9	0.6	7.2	5.6	100.6	142.6	2	27.1	12.9	991.6	135.6	29	2.1	196.9	103.9	1212.4	2132.4	218.08
REP REE789	QC	589	4	22.3	0.6	7.5	5.9	97.6	143.4	3	28.4	12.8	1005.1	133.9	29	2.0	200.4	106.1	1230.3	2183.6	223.01
REE825	Rock Pulp	686	3	29.1	1.5	10.9	5.1	58.1	158.2	2	39.6	8.5	1565.5	707.0	21	1.4	179.2	173.3	1671.2	3085.0	310.76
REP REE825	QC	669	1	27.9	1.1	11.4	5.0	56.6	156.6	2	37.9	8.2	1630.1	727.4	42	3.0	175.7	170.3	1627.9	2974.4	309.52
REE861	Rock Pulp	758	1	9.7	1.4	14.6	16.2	11.1	42.1	<1	317.5	0.7	6.7	3.3	67	0.8	602.5	32.1	25.7	125.3	6.92
REP REE861	QC	754	2	9.3	1.4	13.9	16.2	11.5	41.9	<1	316.6	0.6	7.2	3.7	68	<0.5	607.3	32.0	26.6	125.5	6.94
Reference Materials																					
STD SO-19	Standard	445	18	22.8	4.3	15.2	3.0	68.8	18.5	17	318.5	4.4	13.6	19.8	157	9.9	106.8	36.1	71.7	160.0	18.76
STD SO-19	Standard	473	19	24.1	4.4	16.1	3.3	63.6	19.1	17	325.7	5.1	13.8	19.8	166	9.8	106.9	35.6	73.2	165.2	19.40
STD SO-19	Standard	438	19	22.0	4.4	15.2	3.0	63.9	17.7	17	297.7	4.3	12.9	19.3	152	10.5	100.6	31.7	66.2	143.6	17.70
STD SO-19	Standard	463	17	22.0	3.7	14.9	3.1	64.6	18.0	16	308.7	4.6	12.7	19.2	154	9.1	101.3	33.3	67.3	153.1	18.51
STD SO-19	Standard	458	20	22.1	4.3	16.5	3.0	66.6	19.8	17	310.4	4.9	13.3	19.7	169	10.7	114.4	34.0	69.0	158.1	18.89
STD SO-19	Standard	456	21	21.7	4.6	15.6	3.0	65.1	19.8	17	308.9	4.9	12.9	19.4	169	8.8	112.9	32.9	68.0	156.8	18.98
STD SO-19 Expected		486	20	24	4.5	17.5	3.1	68.5	19.5	19	317.1	4.9	13	19.4	165	9.8	112	35.5	71.3	161	19.4
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	0.2	0.2	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02
BLK	Blank	1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	0.2	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	2.3	<0.1	0.1	0.2	0.05
BLK	Blank	2	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	0.9	<0.1	<0.1	<0.1	<0.02



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**Client:** MacGregor, R.A.  
28 Ford St.  
Sault Ste. Marie Ontario P6A 4N4 Canada

**Project:** None Given  
**Report Date:** September 09, 2022

**Page:** 1 of 1 **Part:** 2 of 2

**QUALITY CONTROL REPORT** VAN22002640.1

Method		LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100
Analyte		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01
Pulp Duplicates												
REE789	Rock Pulp	703.1	101.05	4.66	62.13	6.75	27.51	3.97	9.37	1.17	6.57	0.84
REP REE789	QC	712.6	99.55	4.76	62.92	6.85	28.21	4.13	9.06	1.21	6.93	0.93
REE825	Rock Pulp	1003.1	147.05	7.93	94.36	10.75	48.34	7.11	16.14	2.09	11.09	1.37
REP REE825	QC	1001.1	149.40	8.03	93.23	10.83	48.01	7.17	16.15	1.94	11.10	1.39
REE861	Rock Pulp	26.7	5.96	1.50	5.81	0.98	5.76	1.24	3.94	0.57	3.85	0.61
REP REE861	QC	28.6	6.05	1.62	5.89	0.97	5.97	1.25	3.85	0.58	3.98	0.58
Reference Materials												
STD SO-19	Standard	73.1	12.82	3.67	10.34	1.35	7.35	1.40	3.75	0.54	3.55	0.50
STD SO-19	Standard	76.6	13.24	3.64	10.80	1.38	7.21	1.42	3.94	0.54	3.47	0.53
STD SO-19	Standard	71.9	12.76	3.48	9.60	1.31	6.92	1.24	3.54	0.50	3.18	0.49
STD SO-19	Standard	71.9	12.88	3.54	9.82	1.34	6.90	1.30	3.80	0.52	3.21	0.51
STD SO-19	Standard	73.4	13.04	3.57	10.69	1.35	7.46	1.34	3.78	0.55	3.43	0.50
STD SO-19	Standard	72.8	12.19	3.47	10.40	1.44	7.39	1.33	4.05	0.54	3.58	0.49
STD SO-19 Expected		75.7	13.7	3.81	10.53	1.41	7.5	1.39	3.78	0.55	3.55	0.53
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01
BLK	Blank	<0.3	<0.05	<0.02	0.16	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01

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PHONE (604) 253-3158

**Client:** **MacGregor, R.A.**  
28 Ford St.  
Sault Ste. Marie Ontario P6A 4N4 Canada

Submitted By: R.A. MacGregor  
Receiving Lab: Canada-Vancouver  
Received: February 21, 2023  
Analysis Start: February 22, 2023  
Report Date: February 28, 2023  
Page: 1 of 3

## CERTIFICATE OF ANALYSIS

**VAN23000315.1**

### CLIENT JOB INFORMATION

Project: None Given  
Shipment ID:  
P.O. Number  
Number of Samples: 55

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SLBHP	55	Sorting, labeling and boxing samples received as pulps			VAN
AQ115-IGN	55	Ignite samples, acid digest, Au by ICP-MS	15	Completed	VAN

### SAMPLE DISPOSAL

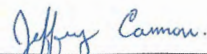
IMM-PLP Return immediately after analysis

### ADDITIONAL COMMENTS

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: **MacGregor, R.A.**  
28 Ford St.  
Sault Ste. Marie Ontario P6A 4N4  
Canada

CC:

  
**JEFFREY CANNON**  
Geochemistry Department Supervisor

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. "\*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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**Client:** MacGregor, R.A.  
28 Ford St.  
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given  
Report Date: February 28, 2023

Page: 2 of 3

Part: 1 of 1

# CERTIFICATE OF ANALYSIS

VAN23000315.1

Method	AQ115
Analyte	Au
Unit	ppb
MDL	0.5
A1152	Rock Pulp 3.1
A1153	Rock Pulp 14.9
A1154	Rock Pulp 25.5
A1155	Rock Pulp 13.1
A1156	Rock Pulp 1.5
A1157	Rock Pulp 1.1
A1158	Rock Pulp 1.4
A1159	Rock Pulp 1.3
A1160	Rock Pulp 19.2
A1161	Rock Pulp 11.8
A1162	Rock Pulp 0.6
A1163	Rock Pulp 11.4
A1164	Rock Pulp 1.5
A1165	Rock Pulp 7.7
A1166	Rock Pulp 2.7
A1167	Rock Pulp 3.3
A1168	Rock Pulp 6.5
A1169	Rock Pulp 5.5
A1170	Rock Pulp 6.7
A1171	Rock Pulp 0.6
A1172	Rock Pulp 6.7
A1173	Rock Pulp <0.5
A1174	Rock Pulp 7.0
A1175	Rock Pulp 5.0
A1176	Rock Pulp 3.0
A1177	Rock Pulp 4.0
A1178	Rock Pulp 0.5
A1179	Rock Pulp 3.1
A1180	Rock Pulp 3.9
A1181	Rock Pulp 0.7



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**Client:** MacGregor, R.A.  
28 Ford St.  
Sault Ste. Marie Ontario P6A 4N4 Canada

**Project:** None Given  
**Report Date:** February 28, 2023

**Page:** 1 of 1 **Part:** 1 of 1

# QUALITY CONTROL REPORT

**VAN23000315.1**

Method	AQ115	
Analyte	Au	
Unit	ppb	
MDL	0.5	
Pulp Duplicates		
A1162	Rock Pulp	0.6
REP A1162	QC	0.8
A1193	Rock Pulp	<0.5
REP A1193	QC	<0.5
Reference Materials		
STD OREAS606	Standard	312.5
STD OREAS606	Standard	304.2
STD OREAS905	Standard	374.7
STD OREAS905	Standard	366.0
STD OREAS905 Expected		395
STD OREAS606 Expected		315
BLK	Blank	<0.5
BLK	Blank	<0.5



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**Client:** **MacGregor, R.A.**  
28 Ford St.  
Sault Ste. Marie Ontario P6A 4N4 Canada

Submitted By: R.A. MacGregor  
Receiving Lab: Canada-Vancouver  
Received: February 22, 2022  
Analysis Start: February 28, 2022  
Report Date: April 18, 2022  
Page: 1 of 5

## CERTIFICATE OF ANALYSIS

VAN22000567.1

### CLIENT JOB INFORMATION

Project: None Given  
Shipment ID:  
P.O. Number  
Number of Samples: 93

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SLBHP	93	Sorting, labeling and boxing samples received as pulps			VAN
MA200	93	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN

### SAMPLE DISPOSAL

IMM-PLP Return immediately after analysis

### ADDITIONAL COMMENTS

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: **MacGregor, R.A.**  
28 Ford St.  
Sault Ste. Marie Ontario P6A 4N4  
Canada

CC:

  
JEFFREY CANNON  
Geochemistry Department Supervisor

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. "\*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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**Client:** MacGregor, R.A.  
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**Project:** None Given  
**Report Date:** April 18, 2022

**Page:** 2 of 5

**Part:** 1 of 3

# CERTIFICATE OF ANALYSIS

VAN22000567.1

Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1	
IMA5962	Rock Pulp	0.6	14.7	13.2	39	<0.1	23.7	10.6	259	2.57	2	1.4	5.8	188	0.1	0.1	0.1	60	1.00	0.024	11.3
IMA5963	Rock Pulp	1.6	351.0	7.5	85	<0.1	208.4	42.0	251	6.31	20	0.9	2.3	120	<0.1	0.3	0.3	182	0.35	0.080	14.6
IMA5964	Rock Pulp	2.1	129.9	4.7	80	<0.1	139.9	38.2	292	6.14	12	2.2	8.0	155	<0.1	0.3	0.2	147	0.71	0.073	17.2
IMA5965	Rock Pulp	0.7	26.9	13.7	44	<0.1	26.7	15.1	289	2.70	1	1.5	6.2	216	<0.1	0.1	0.1	58	1.14	0.023	15.3
IMA5966	Rock Pulp	0.8	11.9	20.2	48	0.1	12.5	4.9	234	2.74	2	1.4	4.4	161	0.2	0.3	0.2	67	0.77	0.050	12.2
IMA5967	Rock Pulp	1.0	21.9	13.6	45	<0.1	23.7	12.1	259	3.36	2	1.4	5.0	176	0.1	0.1	0.1	60	0.99	0.070	12.9
IMA5968	Rock Pulp	0.5	2.1	10.4	52	<0.1	2.2	4.2	1073	5.77	<1	11.5	25.4	139	<0.1	<0.1	<0.1	5	2.69	0.052	55.2
IMA5969	Rock Pulp	0.2	9.9	15.2	141	<0.1	2.2	5.0	2804	7.90	<1	0.4	1.3	619	0.2	<0.1	<0.1	4	2.70	0.051	13.7
IMA5970	Rock Pulp	1.6	4.3	9.5	102	<0.1	5.1	7.0	1528	5.40	<1	2.7	4.9	574	<0.1	<0.1	<0.1	25	2.65	0.075	21.8
IMA5971	Rock Pulp	1.1	29.2	23.0	98	<0.1	2.2	6.6	1224	6.58	<1	1.8	6.5	1003	0.2	<0.1	0.1	3	2.69	0.213	47.6
IMA5972	Rock Pulp	5.3	8.5	17.4	630	<0.1	4.9	2.8	2439	8.62	<1	12.9	26.9	126	0.3	0.1	0.3	7	1.26	0.032	53.3
IMA5973	Rock Pulp	0.7	2.4	11.9	93	<0.1	2.4	4.7	926	5.27	<1	7.0	21.1	138	<0.1	<0.1	<0.1	8	2.14	0.047	40.7
IMA5974	Rock Pulp	0.2	4.4	7.4	338	<0.1	1.7	3.4	2552	8.14	<1	0.3	0.9	238	0.2	<0.1	<0.1	2	0.82	0.052	14.2
IMA5975	Rock Pulp	1.9	12.5	25.2	78	<0.1	11.1	4.7	1287	5.24	2	4.3	5.5	366	0.1	<0.1	0.1	12	4.43	0.056	18.6
IMA5976	Rock Pulp	0.7	16.3	24.3	258	<0.1	2.5	6.0	2466	7.28	<1	0.9	2.5	207	0.5	<0.1	0.2	18	2.28	0.110	19.6
IMA5977	Rock Pulp	3.3	27.0	25.8	354	<0.1	1.9	4.4	2418	10.38	<1	5.6	19.4	357	0.3	<0.1	0.2	6	1.32	0.055	38.5
IMA5978	Rock Pulp	1.5	<0.1	23.7	230	<0.1	2.5	3.0	2157	4.12	<1	30.6	180.2	314	0.3	<0.1	0.3	11	3.28	0.121	228.9
IMA5979	Rock Pulp	2.2	62.3	15.9	136	<0.1	1.8	1.4	1431	8.17	<1	10.7	27.0	417	<0.1	<0.1	1.3	6	1.62	0.018	132.7
IMA5980	Rock Pulp	1.0	7.2	12.3	252	<0.1	26.8	30.4	1822	10.08	<1	2.8	5.7	298	0.2	0.3	0.2	185	5.10	0.315	24.0
IMA5981	Rock Pulp	1.1	7.0	1.1	7	<0.1	3.2	0.6	170	0.51	<1	0.5	1.5	3	<0.1	0.1	<0.1	1	0.04	0.003	1.8
IMA5982	Rock Pulp	1.1	2.6	56.4	246	<0.1	64.0	34.6	1835	5.25	1	0.4	0.8	358	0.9	0.4	0.5	192	9.14	0.016	5.4
IMA5983	Rock Pulp	2.2	135.9	16.5	182	0.1	30.4	37.3	3531	11.13	<1	0.7	0.4	198	0.2	0.2	0.3	359	10.16	0.079	10.0
IMA5984	Rock Pulp	0.8	8.0	35.5	74	<0.1	5.4	6.0	1020	4.00	<1	10.8	72.7	384	<0.1	<0.1	<0.1	27	1.93	0.082	20.7
IMA5985	Rock Pulp	2.4	8.1	27.7	202	<0.1	6.3	3.8	1960	7.32	<1	2.5	5.5	84	0.2	<0.1	<0.1	12	2.53	0.072	21.8
IMA5986	Rock Pulp	1.3	4.8	7.2	29	<0.1	13.9	9.3	1289	3.20	<1	3.0	10.8	459	<0.1	0.2	<0.1	59	9.68	0.064	154.3
IMA5987	Rock Pulp	0.9	2.7	16.3	79	<0.1	15.1	12.7	1587	3.70	<1	4.5	5.0	401	0.2	<0.1	<0.1	85	13.39	0.012	60.2
IMA5988	Rock Pulp	0.8	2.8	16.9	80	<0.1	15.3	12.8	1567	3.75	<1	3.8	4.9	402	0.2	<0.1	<0.1	86	13.40	0.012	62.7
IMA5989	Rock Pulp	0.2	8.0	45.7	194	<0.1	61.7	28.7	3242	6.55	<1	16.5	240.1	99	0.3	0.3	0.2	119	13.81	0.003	12.4
IMA5990	Rock Pulp	2.1	<0.1	28.1	122	<0.1	1.4	1.7	1121	2.24	<1	41.8	232.9	302	0.2	<0.1	0.5	5	2.97	0.149	365.4
IMA5991	Rock Pulp	3.4	1.0	81.3	333	<0.1	6.3	4.2	4051	7.00	<1	304.3	774.0	343	0.5	0.1	1.5	12	8.79	0.150	1928.7



**BUREAU VERITAS** MINERAL LABORATORIES  
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**Project:** None Given  
**Report Date:** April 18, 2022

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**Part:** 2 of 3

# CERTIFICATE OF ANALYSIS

VAN22000567.1

Method	Analyte	Unit	MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200		
				Cr	Mg	Ba	Tl	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf
				ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	
				1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	
IMA5962	Rock Pulp			55	0.52	457	0.289	6.30	1.717	1.64	0.4	159.8	34	0.8	6.8	7.4	0.5	1	7	13.0	<0.1	54.8	4.4
IMA5963	Rock Pulp			311	3.60	30	0.061	8.14	4.828	0.04	0.7	128.0	34	0.3	7.6	0.8	0.3	<1	19	42.3	0.9	0.1	3.2
IMA5964	Rock Pulp			217	3.83	50	0.068	7.86	4.741	0.04	0.7	126.3	38	0.4	6.5	1.0	0.2	<1	15	44.0	0.9	<0.1	3.3
IMA5965	Rock Pulp			54	0.56	520	0.314	6.60	1.869	1.76	0.4	158.7	40	1.0	9.4	8.4	0.5	1	7	14.6	<0.1	59.1	4.1
IMA5966	Rock Pulp			45	0.37	450	0.341	5.01	1.337	1.53	0.5	142.8	27	1.4	6.3	8.4	0.6	<1	6	9.2	<0.1	57.1	3.6
IMA5967	Rock Pulp			56	0.51	419	0.300	6.84	1.508	1.35	0.4	144.0	32	0.9	8.9	7.7	0.6	1	8	15.2	<0.1	45.1	3.7
IMA5968	Rock Pulp			53	0.48	106	0.277	8.18	5.522	1.45	0.6	1360.3	130	9.7	173.2	57.3	3.1	19	2	26.5	<0.1	32.8	24.3
IMA5969	Rock Pulp			48	0.20	163	0.298	7.90	5.482	1.32	<0.1	200.2	43	5.8	54.8	20.9	0.9	7	<1	13.2	<0.1	11.7	6.3
IMA5970	Rock Pulp			50	0.38	180	0.362	7.17	5.706	1.22	0.4	634.2	60	7.0	93.6	46.3	3.4	7	3	22.1	<0.1	22.6	13.1
IMA5971	Rock Pulp			84	0.15	377	0.261	8.50	4.973	1.48	0.1	193.5	130	5.2	100.2	27.0	1.3	4	<1	63.9	<0.1	49.6	4.2
IMA5972	Rock Pulp			33	0.22	161	0.237	7.09	4.638	3.23	0.4	>2000	159	21.2	248.7	117.0	6.6	22	<1	25.0	<0.1	127.1	51.1
IMA5973	Rock Pulp			95	0.47	187	0.252	7.75	5.314	1.75	1.0	1067.4	96	6.9	114.3	48.5	2.6	12	1	32.9	<0.1	47.3	19.1
IMA5974	Rock Pulp			80	0.15	272	0.421	7.43	5.529	2.20	0.1	65.2	40	4.2	35.6	39.9	1.3	1	<1	30.1	<0.1	105.5	1.2
IMA5975	Rock Pulp			61	0.63	412	0.155	8.16	4.207	2.80	3.5	802.9	53	8.9	90.3	35.9	2.1	11	2	20.6	<0.1	137.5	13.6
IMA5976	Rock Pulp			64	0.33	358	0.244	7.19	5.032	2.51	<0.1	415.5	57	3.7	72.0	16.1	0.8	4	2	6.7	<0.1	16.1	11.1
IMA5977	Rock Pulp			62	0.26	767	0.389	7.60	3.895	3.98	0.1	301.8	111	7.2	105.2	46.7	1.9	3	<1	9.8	0.3	112.0	6.8
IMA5978	Rock Pulp			38	0.35	683	0.152	7.43	4.051	4.56	0.3	239.7	579	5.2	323.6	32.0	3.2	7	2	24.4	<0.1	184.5	5.9
IMA5979	Rock Pulp			51	0.09	413	0.094	6.59	5.708	1.13	0.9	645.4	208	27.6	252.3	71.7	8.3	16	<1	5.4	<0.1	19.2	12.3
IMA5980	Rock Pulp			157	3.51	722	1.471	7.80	1.618	2.64	1.8	123.2	60	6.1	56.9	13.1	1.1	2	22	76.3	<0.1	148.9	3.2
IMA5981	Rock Pulp			96	0.05	7	0.016	0.43	0.277	0.06	0.1	17.3	7	0.5	3.8	1.5	<0.1	<1	<1	10.6	<0.1	5.3	0.4
IMA5982	Rock Pulp			219	4.62	80	0.394	8.41	2.424	0.87	5.4	25.4	9	1.2	19.0	1.4	0.2	<1	56	71.6	<0.1	15.8	0.8
IMA5983	Rock Pulp			72	3.65	144	1.130	7.57	1.539	1.09	3.8	63.8	25	6.0	53.4	1.5	0.1	2	45	27.2	0.1	28.0	2.1
IMA5984	Rock Pulp			85	0.73	904	0.425	7.39	3.439	3.56	1.0	565.5	51	4.4	63.9	33.0	1.3	7	3	37.4	<0.1	110.9	13.0
IMA5985	Rock Pulp			73	0.32	404	0.583	7.26	3.710	3.94	1.3	566.2	62	4.2	100.8	28.2	2.1	5	4	16.5	<0.1	102.0	13.5
IMA5986	Rock Pulp			75	4.48	230	0.345	5.78	3.436	0.32	0.1	109.7	307	2.0	145.7	11.5	0.7	1	8	26.2	<0.1	5.2	3.3
IMA5987	Rock Pulp			135	5.00	46	0.082	5.52	2.125	0.35	0.7	79.6	106	1.3	43.2	2.1	0.2	6	13	45.2	0.2	24.1	2.4
IMA5988	Rock Pulp			138	5.03	48	0.081	5.52	2.111	0.36	0.7	64.6	109	1.3	44.8	2.1	0.2	6	13	44.0	0.2	24.3	2.2
IMA5989	Rock Pulp			80	6.56	211	0.077	1.72	0.937	0.46	0.2	288.8	36	1.1	74.7	4.8	0.2	10	18	56.7	<0.1	24.1	17.0
IMA5990	Rock Pulp			29	0.25	677	0.030	7.73	3.838	5.57	0.3	41.2	863	1.5	407.5	8.3	0.4	4	<1	13.3	<0.1	233.7	1.3
IMA5991	Rock Pulp			42	0.70	374	0.064	5.66	3.991	2.11	1.0	269.4	>2000	14.4	>2000	15.6	2.0	14	2	45.0	<0.1	86.1	9.4

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.





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Sault Ste. Marie Ontario P6A 4N4 Canada

**Project:** None Given  
**Report Date:** April 18, 2022

**Page:** 2 of 5

**Part:** 3 of 3

# CERTIFICATE OF ANALYSIS

VAN22000567.1

Method	Analyte	Unit	MA200	MA200	MA200	MA200	MA200
			In	Re	Se	Te	Tl
			ppm	ppm	ppm	ppm	ppm
		MDL	0.05	0.005	1	0.5	0.5
IMA5962	Rock Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA5963	Rock Pulp		0.05	<0.005	<1	<0.5	<0.5
IMA5964	Rock Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA5965	Rock Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA5966	Rock Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA5967	Rock Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA5968	Rock Pulp		<0.05	<0.005	2	<0.5	<0.5
IMA5969	Rock Pulp		0.20	<0.005	<1	<0.5	<0.5
IMA5970	Rock Pulp		0.14	<0.005	1	<0.5	<0.5
IMA5971	Rock Pulp		0.12	<0.005	2	<0.5	0.6
IMA5972	Rock Pulp		0.06	<0.005	4	<0.5	1.1
IMA5973	Rock Pulp		<0.05	<0.005	2	<0.5	<0.5
IMA5974	Rock Pulp		0.12	<0.005	<1	<0.5	0.6
IMA5975	Rock Pulp		0.05	<0.005	1	<0.5	0.9
IMA5976	Rock Pulp		0.22	<0.005	1	<0.5	<0.5
IMA5977	Rock Pulp		0.08	<0.005	1	<0.5	0.6
IMA5978	Rock Pulp		0.09	<0.005	3	<0.5	0.9
IMA5979	Rock Pulp		0.15	<0.005	3	<0.5	<0.5
IMA5980	Rock Pulp		0.11	<0.005	<1	<0.5	1.8
IMA5981	Rock Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA5982	Rock Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA5983	Rock Pulp		0.16	<0.005	1	<0.5	<0.5
IMA5984	Rock Pulp		<0.05	<0.005	<1	<0.5	0.9
IMA5985	Rock Pulp		0.18	<0.005	2	<0.5	0.7
IMA5986	Rock Pulp		<0.05	<0.005	1	<0.5	<0.5
IMA5987	Rock Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA5988	Rock Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA5989	Rock Pulp		0.10	<0.005	<1	<0.5	<0.5
IMA5990	Rock Pulp		<0.05	<0.005	6	<0.5	1.1
IMA5991	Rock Pulp		0.07	<0.005	48	<0.5	<0.5



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**Project:** None Given  
**Report Date:** April 18, 2022

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**Part:** 1 of 3

# CERTIFICATE OF ANALYSIS

**VAN22000567.1**

Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1	
IMA5992	Rock Pulp	2.0	30.5	22.1	26	<0.1	17.7	5.6	162	0.86	<1	5.8	36.5	980	<0.1	<0.1	<0.1	17	0.97	0.050	30.1
IMA5993	Rock Pulp	1.3	6.3	8.8	34	<0.1	3.8	6.9	611	3.32	<1	5.8	24.2	348	<0.1	<0.1	<0.1	57	1.67	0.137	28.5
IMA5994	Rock Pulp	3.4	1.4	9.1	117	<0.1	10.6	15.9	1383	7.18	2	9.3	11.7	610	<0.1	0.2	0.1	277	5.07	0.170	90.9
IMA5995	Rock Pulp	1.0	2.3	2.8	22	<0.1	3.0	2.6	276	2.39	<1	2.1	4.1	84	<0.1	0.1	<0.1	7	0.52	0.015	14.6
IMA5996	Rock Pulp	0.6	3.2	4.7	19	<0.1	3.6	2.2	229	1.88	<1	4.5	5.5	116	<0.1	<0.1	<0.1	12	0.48	0.019	17.6
IMA5997	Rock Pulp	3.5	129.9	8.1	133	<0.1	26.7	37.1	1789	8.69	<1	2.0	3.0	413	<0.1	0.2	0.2	312	5.80	0.181	27.3
IMA5998	Rock Pulp	0.6	2.0	15.7	9	<0.1	2.3	1.0	90	0.30	<1	17.2	17.7	586	<0.1	0.1	<0.1	2	0.34	0.005	12.2
IMA5999	Rock Pulp	0.7	4.4	4.2	22	<0.1	3.0	2.4	228	1.87	<1	2.5	5.9	108	<0.1	<0.1	<0.1	12	0.39	0.016	16.2
IMA6000	Rock Pulp	1.1	2.3	11.5	4	<0.1	3.5	0.6	74	0.37	<1	3.2	4.1	553	<0.1	<0.1	<0.1	3	0.35	0.009	14.9
IMA6001	Rock Pulp	1.7	18.8	18.8	49	<0.1	19.3	14.3	1179	3.65	<1	5.5	9.2	441	0.2	0.2	0.1	78	10.38	0.087	45.6
IMA6002	Rock Pulp	14.8	26.3	11.2	300	<0.1	71.2	31.1	3062	9.56	<1	4.8	1.0	233	0.5	0.1	0.2	316	6.19	0.071	23.2
IMA6003	Rock Pulp	4.5	9.6	19.5	56	<0.1	6.7	2.2	510	2.28	2	5.6	18.1	170	<0.1	0.3	<0.1	67	1.78	0.023	26.1
IMA6004	Rock Pulp	2.4	3.5	11.8	136	<0.1	23.9	30.2	1760	8.07	<1	3.9	3.6	345	<0.1	0.1	0.2	111	7.52	0.182	34.8
IMA6005	Rock Pulp	0.7	4.2	3.4	39	<0.1	2.6	2.5	276	2.85	<1	0.6	1.4	65	<0.1	<0.1	<0.1	10	0.83	0.026	9.5
IMA6006	Rock Pulp	1.9	102.6	13.6	225	<0.1	22.8	26.9	1500	6.67	<1	0.9	1.2	249	0.6	<0.1	<0.1	148	4.15	0.125	12.0
IMA6007	Rock Pulp	1.3	28.0	3.6	29	<0.1	4.9	4.5	559	2.67	<1	2.2	3.8	111	<0.1	<0.1	<0.1	17	1.02	0.018	20.5
IMA6008	Rock Pulp	2.8	0.6	12.6	129	<0.1	29.3	24.5	1280	5.77	1	2.3	3.4	343	0.1	0.6	0.3	121	7.11	0.117	26.4
IMA6009	Rock Pulp	0.9	12.6	4.7	4	<0.1	4.7	1.1	135	0.76	<1	1.4	2.6	108	<0.1	0.2	<0.1	5	0.43	0.026	10.7
IMA6010	Rock Pulp	0.7	2.2	32.3	188	<0.1	19.7	17.6	2471	4.71	3	14.2	52.3	185	0.3	0.6	0.3	74	9.47	0.008	17.8
IMA6011	Rock Pulp	1.1	6.5	17.0	169	<0.1	39.8	21.0	2597	6.19	6	31.5	26.0	270	0.2	2.0	0.4	111	10.10	0.007	31.5
IMA6012	Rock Pulp	1.2	41.2	15.0	42	<0.1	39.9	12.4	771	3.71	<1	4.0	3.5	525	0.1	0.2	0.1	99	7.34	0.069	28.1
IMA6013	Rock Pulp	0.8	2.4	9.1	75	<0.1	25.1	9.3	1288	3.13	<1	4.5	10.0	458	0.1	0.1	<0.1	75	10.53	0.078	52.4
IMA6014	Rock Pulp	1.0	3.5	48.4	191	<0.1	25.6	21.9	2576	5.75	4	158.8	115.0	202	0.4	0.2	0.2	114	14.10	0.356	113.1
IMA6015	Rock Pulp	1.4	3.9	13.5	11	<0.1	1.7	0.8	145	0.80	<1	11.8	71.1	191	<0.1	0.1	<0.1	6	0.33	0.006	113.2
IMA6016	Rock Pulp	6.6	304.7	51.9	203	<0.1	40.7	32.4	3094	5.86	6	108.0	40.8	248	0.4	0.3	0.3	103	13.86	0.307	31.9
IMA6017	Rock Pulp	1.0	1730.7	42.2	225	0.3	66.2	42.3	3382	7.11	2	15.5	85.9	152	0.5	0.4	0.5	112	14.02	0.081	16.2
IMA6018	Rock Pulp	1.7	2.2	9.8	70	<0.1	2.1	17.3	1380	10.75	1	3.0	3.9	305	<0.1	0.2	<0.1	17	3.05	0.306	32.2
IMA6019	Rock Pulp	2.4	6.5	17.2	134	<0.1	23.3	16.2	1654	4.13	1	8.1	11.3	369	0.3	0.2	0.2	83	11.11	0.063	35.2
IMA6020	Rock Pulp	1.2	3.0	6.7	56	<0.1	28.2	21.1	1087	5.43	2	1.7	2.7	535	<0.1	0.3	<0.1	142	6.23	0.101	21.4
IMA6021	Rock Pulp	0.5	4.3	6.5	35	<0.1	2.8	5.1	260	1.81	<1	1.1	4.6	180	<0.1	<0.1	<0.1	6	0.92	0.017	15.0



**BUREAU VERITAS** MINERAL LABORATORIES  
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PHONE (604) 253-3158

**Client:** MacGregor, R.A.  
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Sault Ste. Marie Ontario P6A 4N4 Canada

**Project:** None Given  
**Report Date:** April 18, 2022

**Page:** 3 of 5 **Part:** 2 of 3

# CERTIFICATE OF ANALYSIS

**VAN22000567.1**

Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Cr	Mg	Ba	Tl	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf	
Unit	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	
MDL	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1	
IMA5992	Rock Pulp	61	0.39	2216	0.171	6.98	2.751	4.08	0.1	183.5	71	0.8	12.7	16.3	1.6	4	2	41.0	<0.1	150.8	6.0
IMA5993	Rock Pulp	121	0.72	978	0.438	7.58	4.064	2.79	0.2	165.9	70	1.8	38.7	11.0	0.9	3	7	21.5	<0.1	91.4	4.8
IMA5994	Rock Pulp	37	2.11	601	0.888	8.44	4.278	1.12	0.4	57.1	177	4.1	62.8	17.8	0.5	5	18	39.3	<0.1	19.5	1.9
IMA5995	Rock Pulp	100	0.16	591	0.181	6.25	3.274	3.27	0.1	222.8	39	2.3	47.1	10.6	0.6	3	4	15.4	<0.1	72.9	5.9
IMA5996	Rock Pulp	95	0.18	478	0.148	5.82	2.997	3.05	0.2	188.3	56	2.7	35.6	11.1	0.7	3	3	12.8	<0.1	98.0	6.2
IMA5997	Rock Pulp	63	2.45	355	1.216	7.88	2.947	1.12	1.3	31.1	65	1.9	49.1	7.4	0.5	2	31	40.4	<0.1	19.9	1.4
IMA5998	Rock Pulp	42	0.07	3038	0.034	6.71	2.319	5.90	0.3	26.6	20	0.2	4.4	3.1	0.3	2	<1	7.2	<0.1	297.0	0.8
IMA5999	Rock Pulp	77	0.24	555	0.164	5.87	3.181	3.44	0.2	198.0	50	3.0	33.7	11.7	0.8	3	3	23.1	<0.1	82.5	6.1
IMA6000	Rock Pulp	96	0.11	1263	0.061	6.01	2.174	5.20	0.6	21.3	27	1.1	21.8	15.3	1.1	3	<1	7.1	<0.1	274.3	0.7
IMA6001	Rock Pulp	62	3.13	348	0.415	6.57	2.995	1.30	0.3	100.0	94	1.7	54.0	7.3	0.4	2	11	41.3	0.1	56.8	3.1
IMA6002	Rock Pulp	310	3.06	393	0.954	8.08	1.147	2.60	4.7	63.5	57	15.0	115.5	6.9	0.3	5	42	55.9	0.2	63.1	1.8
IMA6003	Rock Pulp	134	0.55	215	0.262	6.79	3.035	1.65	2.6	245.2	42	1.2	16.8	11.0	0.7	7	7	29.4	<0.1	90.3	6.4
IMA6004	Rock Pulp	35	3.30	186	0.805	8.78	2.871	1.08	0.9	137.7	64	3.0	43.8	6.8	0.4	3	11	58.4	0.2	19.3	3.8
IMA6005	Rock Pulp	78	0.19	320	0.248	5.51	4.470	1.26	0.2	118.4	25	1.4	25.1	7.0	0.3	3	4	21.2	<0.1	17.0	2.8
IMA6006	Rock Pulp	110	2.12	187	0.902	6.13	2.463	0.68	0.6	91.1	30	1.9	37.9	4.8	0.3	1	17	32.2	<0.1	9.2	2.3
IMA6007	Rock Pulp	83	0.32	336	0.189	5.88	3.595	2.45	0.2	180.3	52	4.3	64.0	13.6	0.8	5	6	13.5	<0.1	46.4	5.8
IMA6008	Rock Pulp	105	3.15	549	0.679	7.27	2.969	2.77	0.6	48.6	53	2.0	44.6	6.3	0.4	2	17	62.7	<0.1	85.9	1.9
IMA6009	Rock Pulp	126	0.17	208	0.041	4.87	3.476	1.11	0.4	105.1	21	1.6	18.1	3.5	0.2	2	2	6.5	<0.1	28.3	3.4
IMA6010	Rock Pulp	67	4.44	94	0.149	4.13	2.388	0.38	0.4	93.9	64	2.4	88.2	21.7	1.0	17	9	46.6	<0.1	25.7	4.9
IMA6011	Rock Pulp	122	4.21	96	0.441	4.93	3.084	0.34	0.2	121.9	110	4.5	132.8	47.6	1.9	19	16	62.6	<0.1	12.9	4.4
IMA6012	Rock Pulp	95	2.47	906	0.459	8.04	4.482	0.90	0.3	77.5	59	1.7	47.5	8.6	0.5	3	16	37.7	0.1	23.1	2.4
IMA6013	Rock Pulp	67	5.95	85	0.458	5.83	3.072	0.47	0.1	85.0	154	1.6	118.8	6.9	0.3	2	12	46.2	<0.1	11.2	2.3
IMA6014	Rock Pulp	98	6.53	172	0.270	2.78	1.149	0.63	0.5	109.2	275	1.8	187.7	13.9	0.4	7	14	82.9	<0.1	92.9	3.0
IMA6015	Rock Pulp	43	0.18	586	0.116	6.02	3.279	4.97	1.1	277.8	188	4.7	46.4	33.6	2.7	5	<1	7.9	<0.1	247.6	7.6
IMA6016	Rock Pulp	80	5.81	72	0.093	3.23	1.860	0.25	1.9	186.0	110	1.5	161.4	12.7	0.3	14	12	63.7	<0.1	30.9	4.9
IMA6017	Rock Pulp	96	6.39	60	0.058	2.06	1.273	0.24	2.6	93.7	50	1.5	72.3	5.5	0.2	13	14	70.3	0.1	33.0	3.1
IMA6018	Rock Pulp	56	1.16	740	1.148	7.56	3.475	1.90	0.4	186.4	68	3.1	61.5	11.4	0.6	3	9	27.2	<0.1	77.9	4.6
IMA6019	Rock Pulp	56	4.09	880	0.413	6.48	2.041	2.05	0.4	136.4	89	2.8	72.9	21.6	0.9	6	12	74.6	0.1	132.5	4.0
IMA6020	Rock Pulp	132	2.34	608	0.690	7.66	2.638	2.37	0.3	123.7	43	1.8	32.5	6.2	0.4	2	18	34.2	<0.1	93.7	3.2
IMA6021	Rock Pulp	82	0.86	594	0.192	6.24	2.645	3.36	0.1	182.8	35	1.8	13.1	5.9	0.3	2	8	56.6	<0.1	144.7	4.8

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



**BUREAU VERITAS** MINERAL LABORATORIES  
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**Project:** None Given  
**Report Date:** April 18, 2022

**Page:** 3 of 5

**Part:** 3 of 3

# CERTIFICATE OF ANALYSIS

VAN22000567.1

Method Analyte	Unit	MA200	MA200	MA200	MA200	MA200
		In	Re	Se	Te	Tl
		ppm	ppm	ppm	ppm	ppm
MDL		0.05	0.005	1	0.5	0.5
IMA5992	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA5993	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA5994	Rock Pulp	0.11	<0.005	<1	<0.5	<0.5
IMA5995	Rock Pulp	0.06	<0.005	<1	<0.5	<0.5
IMA5996	Rock Pulp	<0.05	<0.005	<1	<0.5	0.5
IMA5997	Rock Pulp	0.07	<0.005	<1	<0.5	<0.5
IMA5998	Rock Pulp	<0.05	<0.005	<1	<0.5	2.0
IMA5999	Rock Pulp	0.08	<0.005	<1	<0.5	<0.5
IMA6000	Rock Pulp	<0.05	<0.005	<1	<0.5	2.0
IMA6001	Rock Pulp	0.05	<0.005	<1	<0.5	0.6
IMA6002	Rock Pulp	0.58	<0.005	<1	<0.5	1.5
IMA6003	Rock Pulp	<0.05	<0.005	<1	<0.5	1.3
IMA6004	Rock Pulp	0.12	<0.005	<1	<0.5	<0.5
IMA6005	Rock Pulp	0.06	<0.005	<1	<0.5	<0.5
IMA6006	Rock Pulp	0.07	<0.005	<1	<0.5	<0.5
IMA6007	Rock Pulp	0.12	<0.005	<1	<0.5	<0.5
IMA6008	Rock Pulp	0.08	<0.005	<1	<0.5	0.9
IMA6009	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA6010	Rock Pulp	0.08	<0.005	<1	<0.5	<0.5
IMA6011	Rock Pulp	0.12	<0.005	<1	<0.5	<0.5
IMA6012	Rock Pulp	0.08	<0.005	<1	<0.5	<0.5
IMA6013	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA6014	Rock Pulp	0.08	<0.005	1	<0.5	0.7
IMA6015	Rock Pulp	<0.05	<0.005	<1	<0.5	1.4
IMA6016	Rock Pulp	0.08	<0.005	1	<0.5	<0.5
IMA6017	Rock Pulp	0.10	<0.005	3	<0.5	0.5
IMA6018	Rock Pulp	0.09	<0.005	<1	<0.5	0.5
IMA6019	Rock Pulp	0.07	<0.005	<1	<0.5	1.4
IMA6020	Rock Pulp	0.06	<0.005	<1	<0.5	0.5
IMA6021	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0



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**Project:** None Given  
**Report Date:** April 18, 2022

**Page:** 4 of 5

**Part:** 1 of 3

# CERTIFICATE OF ANALYSIS

VAN22000567.1

Method	Analyte	MA200																			
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1
IMA6022	Rock Pulp	0.8	11.3	8.6	20	<0.1	5.8	3.3	210	1.93	<1	2.3	7.9	390	<0.1	<0.1	<0.1	17	0.71	0.019	34.7
IMA6023	Rock Pulp	1.6	18.4	9.3	160	<0.1	163.8	32.5	2154	7.09	2	11.4	20.6	443	<0.1	0.1	<0.1	152	5.07	0.417	79.7
IMA6024	Rock Pulp	1.3	2.8	1.4	21	<0.1	25.2	15.6	133	4.42	16	2.6	9.8	278	<0.1	0.7	0.5	66	2.65	0.065	47.1
IMA6025	Rock Pulp	1.1	3.5	1.7	24	<0.1	24.1	14.0	219	4.16	11	2.5	6.5	596	<0.1	0.5	0.6	75	5.36	0.040	26.4
IMA6026	Rock Pulp	0.8	12.1	2.0	33	<0.1	17.4	9.7	345	3.39	7	2.1	6.5	791	<0.1	0.4	0.4	74	9.32	0.036	32.2
IMA6027	Rock Pulp	0.8	3.9	2.4	24	<0.1	18.2	10.3	357	3.48	9	1.9	6.0	443	<0.1	0.5	0.3	67	10.59	0.035	29.7
IMA6028	Rock Pulp	0.6	2.1	2.3	21	<0.1	14.8	9.5	380	2.87	7	2.1	7.4	2314	<0.1	0.5	0.3	68	11.05	0.034	25.2
IMA6029	Rock Pulp	0.6	8.0	1.7	22	<0.1	12.8	8.1	277	2.44	8	1.8	4.6	307	<0.1	0.7	0.3	54	8.83	0.033	38.2
IMA6030	Rock Pulp	2.2	95.5	107.1	15	0.3	30.2	41.1	44	2.27	7	365.6	551.1	20	<0.1	0.5	3.6	13	0.12	0.079	729.8
IMA6031	Rock Pulp	3.6	58.0	539.5	30	1.0	30.5	39.0	54	2.41	9	714.9	584.8	18	0.1	0.6	8.9	17	0.08	0.080	732.4
IMA6032	Rock Pulp	5.2	24.4	89.3	21	0.4	20.9	21.5	60	1.42	5	188.9	393.7	21	<0.1	0.4	2.6	19	0.09	0.054	521.0
IMA6033	Rock Pulp	2.0	34.1	309.9	99	0.4	18.5	24.7	66	1.53	5	418.0	342.9	15	0.4	0.5	3.0	13	0.05	0.042	413.4
IMA6034	Rock Pulp	1.5	25.9	287.1	15	0.5	14.7	16.7	46	1.21	2	398.9	284.1	21	<0.1	0.3	3.9	16	0.09	0.042	358.0
IMA6035	Rock Pulp	0.7	2.3	2.7	12	<0.1	23.5	13.7	103	4.52	53	2.3	7.2	108	<0.1	0.7	0.3	53	3.90	0.039	31.2
IMA6036	Rock Pulp	0.9	37.4	1.7	9	<0.1	23.3	13.1	101	5.03	53	3.3	7.8	1560	<0.1	8.2	0.3	55	2.04	0.029	30.3
IMA6037	Rock Pulp	1.4	4.2	1.8	19	<0.1	23.4	13.6	146	5.02	37	3.6	8.6	342	<0.1	0.4	0.3	49	2.76	0.040	30.4
IMA6038	Rock Pulp	0.9	15.3	2.0	48	<0.1	24.5	13.6	162	5.37	48	2.5	7.4	257	<0.1	0.6	0.3	65	2.84	0.039	36.5
IMA6039	Rock Pulp	0.8	9.9	5.4	43	<0.1	28.1	13.6	141	3.73	40	2.5	7.8	269	<0.1	0.8	0.2	92	3.29	0.049	37.6
IMA6040	Rock Pulp	1.0	22.6	3.6	27	<0.1	24.4	13.2	191	3.98	25	2.5	8.4	345	<0.1	0.8	0.3	70	3.78	0.039	25.7
IMA6041	Rock Pulp	0.5	4.4	6.2	18	<0.1	10.4	6.0	292	1.90	8	1.4	3.3	717	<0.1	0.9	0.2	33	20.66	0.020	14.4
IMA6042	Rock Pulp	0.7	7.0	2.5	9	<0.1	24.9	14.4	109	4.47	47	2.1	8.1	74	<0.1	0.8	0.3	53	2.83	0.038	30.4
IMA6043	Rock Pulp	1.0	10.1	2.8	7	<0.1	25.8	14.3	116	4.70	46	2.1	7.9	68	<0.1	0.8	0.4	71	2.77	0.040	34.1
IMA6044	Rock Pulp	0.9	9.4	2.5	6	<0.1	24.7	13.8	111	4.76	47	2.2	8.4	71	<0.1	1.2	0.4	61	2.97	0.039	35.7
IMA6045	Rock Pulp	1.3	31.1	1.3	7	<0.1	23.7	13.4	108	4.07	93	6.1	11.1	7158	<0.1	1.3	0.1	49	1.68	0.040	145.2
IMA6046	Rock Pulp	0.9	6.8	2.4	11	<0.1	24.3	14.1	144	4.22	34	2.5	8.0	751	<0.1	0.9	0.3	60	2.92	0.038	33.3
IMA6047	Rock Pulp	1.2	6.4	3.4	14	<0.1	23.1	13.0	141	3.86	22	2.2	8.0	201	<0.1	0.7	0.2	76	3.57	0.040	41.1
IMA6048	Rock Pulp	2.0	5.8	3.2	23	<0.1	22.4	12.8	104	3.41	14	2.4	7.7	220	<0.1	0.4	0.1	70	2.92	0.040	45.0
IMA6049	Rock Pulp	0.7	2.4	1.5	10	<0.1	22.7	12.7	118	2.62	9	2.5	3.4	200	<0.1	0.4	0.2	67	7.52	0.030	13.5
IMA6050	Rock Pulp	0.8	2.0	1.1	8	<0.1	25.3	15.4	99	1.82	9	2.0	6.2	338	<0.1	0.3	0.1	58	4.20	0.036	20.6
IMA6051	Rock Pulp	0.3	4.8	2.4	22	<0.1	6.4	2.2	167	0.68	3	1.6	3.6	185	0.1	0.7	<0.1	16	23.03	0.038	45.6



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Project: None Given  
Report Date: April 18, 2022

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Part: 2 of 3

# CERTIFICATE OF ANALYSIS

VAN22000567.1

Method	Analyte	Unit	MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
				Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1
IMA6022	Rock Pulp	147	0.23	840	0.161	6.41	3.447	3.05	0.1	234.2	71	2.4	45.8	12.4	0.9	3	3	20.1	<0.1	105.8	7.6
IMA6023	Rock Pulp	561	4.48	1968	0.597	5.96	1.984	3.47	0.3	361.8	202	7.4	64.2	19.1	0.8	9	24	89.1	<0.1	131.3	9.7
IMA6024	Rock Pulp	70	4.70	18	0.513	6.44	4.392	0.58	1.3	139.8	109	1.4	22.3	14.2	0.8	<1	11	44.4	4.5	3.1	3.8
IMA6025	Rock Pulp	75	2.97	17	0.498	6.63	5.468	0.17	0.9	144.6	66	1.4	25.1	13.4	0.8	<1	12	13.5	4.5	0.8	4.0
IMA6026	Rock Pulp	93	3.12	22	0.408	5.49	4.358	0.12	0.5	123.1	67	1.6	29.4	11.6	0.7	<1	10	10.5	3.6	0.8	3.4
IMA6027	Rock Pulp	94	3.08	131	0.392	5.10	4.134	0.11	0.7	114.8	59	2.0	25.1	10.7	0.6	<1	9	10.8	3.7	0.6	3.2
IMA6028	Rock Pulp	56	3.05	47	0.378	5.11	4.238	0.10	0.7	105.4	53	2.0	25.6	9.7	0.6	<1	10	9.9	3.2	0.6	2.9
IMA6029	Rock Pulp	52	4.57	52	0.309	3.92	2.082	0.21	0.8	101.4	70	1.3	21.3	8.1	0.5	<1	7	35.7	2.0	1.9	2.8
IMA6030	Rock Pulp	135	0.08	101	0.147	3.00	0.059	1.90	1.3	92.4	1308	1.1	78.3	34.5	5.8	<1	3	7.8	2.3	92.4	2.8
IMA6031	Rock Pulp	111	0.07	174	0.197	3.00	0.041	1.73	2.5	159.8	1299	1.5	97.7	40.2	8.9	<1	3	12.0	2.5	88.2	4.9
IMA6032	Rock Pulp	196	0.12	181	0.187	4.03	0.062	2.37	1.3	128.1	944	1.6	65.7	29.4	5.3	<1	3	23.4	1.0	118.9	3.9
IMA6033	Rock Pulp	105	0.07	114	0.123	2.94	0.039	1.73	1.2	82.9	731	1.1	59.7	24.9	4.5	<1	2	7.4	1.4	81.7	2.7
IMA6034	Rock Pulp	101	0.07	194	0.146	4.13	0.058	2.32	1.4	104.2	627	1.4	51.4	22.1	4.1	1	2	7.1	1.0	111.7	3.1
IMA6035	Rock Pulp	60	1.66	48	0.325	6.45	5.378	0.10	6.1	120.0	70	0.8	21.4	7.4	0.5	<1	11	6.2	5.0	0.7	3.4
IMA6036	Rock Pulp	80	2.78	15	0.419	6.62	4.941	0.18	62.4	113.8	66	1.4	22.2	9.6	0.6	<1	9	25.5	5.5	4.1	3.4
IMA6037	Rock Pulp	116	1.90	11	0.451	6.35	5.025	0.44	7.4	159.3	66	1.7	16.5	11.6	0.7	<1	8	25.6	5.5	8.3	4.4
IMA6038	Rock Pulp	116	1.84	9	0.499	6.51	5.230	0.27	8.3	120.1	74	1.5	22.3	12.2	0.8	<1	11	10.6	5.8	2.7	3.4
IMA6039	Rock Pulp	78	2.51	11	0.494	6.73	5.323	0.29	0.9	108.0	79	2.1	30.9	12.2	0.8	<1	13	18.8	3.9	4.6	3.2
IMA6040	Rock Pulp	111	2.35	12	0.494	6.63	5.413	0.18	2.4	111.6	64	1.4	22.4	12.5	0.8	<1	10	10.8	4.2	1.1	3.2
IMA6041	Rock Pulp	51	1.86	20	0.215	2.86	2.345	0.13	1.0	56.5	32	0.6	12.6	5.4	0.3	<1	5	8.6	2.1	2.7	1.7
IMA6042	Rock Pulp	63	1.44	33	0.286	6.88	5.775	0.09	11.3	113.9	68	0.7	22.7	6.4	0.4	<1	10	5.3	5.0	0.5	3.2
IMA6043	Rock Pulp	108	1.52	31	0.340	6.74	5.665	0.08	11.1	107.0	74	0.9	27.2	7.5	0.5	<1	12	4.9	5.3	0.4	3.1
IMA6044	Rock Pulp	52	1.39	38	0.361	6.75	5.511	0.11	20.1	118.4	74	0.9	22.8	7.2	0.5	<1	10	7.6	5.4	0.5	3.4
IMA6045	Rock Pulp	73	3.01	18	0.221	6.75	4.772	0.44	109.2	133.9	214	1.0	25.4	5.0	0.3	<1	11	44.9	4.5	6.6	3.8
IMA6046	Rock Pulp	62	1.45	10	0.401	6.93	5.732	0.21	12.0	132.3	64	1.6	22.1	8.8	0.6	<1	10	9.1	4.7	3.7	3.8
IMA6047	Rock Pulp	71	2.49	8	0.400	6.42	4.900	0.36	2.3	119.5	84	1.3	26.6	10.0	0.6	<1	11	16.4	4.3	9.2	3.4
IMA6048	Rock Pulp	66	1.97	8	0.409	6.75	5.332	0.42	4.2	147.3	88	1.4	27.2	9.7	0.6	1	12	20.2	3.8	9.7	4.0
IMA6049	Rock Pulp	81	2.21	11	0.328	5.61	2.699	1.59	1.2	114.5	42	1.3	44.9	7.8	0.5	<1	13	115.9	2.8	30.1	3.1
IMA6050	Rock Pulp	95	1.53	16	0.343	6.99	5.224	0.64	1.5	144.3	53	1.5	23.5	8.3	0.5	<1	11	62.8	1.9	7.6	4.0
IMA6051	Rock Pulp	58	2.28	1592	0.092	1.75	0.107	1.06	0.9	45.5	63	0.3	6.8	2.3	0.1	<1	1	26.0	<0.1	21.7	1.1



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Bureau Veritas Commodities Canada Ltd.

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28 Ford St.  
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Project: None Given  
Report Date: April 18, 2022

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Part: 3 of 3

# CERTIFICATE OF ANALYSIS

VAN22000567.1

Method Analyte	Unit	MA200	MA200	MA200	MA200	MA200
		In	Re	Se	Te	Tl
MDL		ppm	ppm	ppm	ppm	ppm
		0.05	0.005	1	0.5	0.5
IMA6022	Rock Pulp	<0.05	<0.005	<1	<0.5	0.6
IMA6023	Rock Pulp	0.22	<0.005	<1	<0.5	0.7
IMA6024	Rock Pulp	<0.05	<0.005	1	<0.5	<0.5
IMA6025	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA6026	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA6027	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA6028	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA6029	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA6030	Rock Pulp	<0.05	<0.005	2	<0.5	0.8
IMA6031	Rock Pulp	<0.05	<0.005	2	<0.5	0.9
IMA6032	Rock Pulp	<0.05	<0.005	1	<0.5	0.9
IMA6033	Rock Pulp	<0.05	<0.005	1	<0.5	0.7
IMA6034	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA6035	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA6036	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA6037	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA6038	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA6039	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA6040	Rock Pulp	<0.05	<0.005	1	<0.5	<0.5
IMA6041	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA6042	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA6043	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA6044	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA6045	Rock Pulp	<0.05	<0.005	<1	0.6	<0.5
IMA6046	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA6047	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA6048	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA6049	Rock Pulp	<0.05	<0.005	1	<0.5	<0.5
IMA6050	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA6051	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5



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**Project:** None Given  
**Report Date:** April 18, 2022

**Page:** 1 of 1 **Part:** 1 of 3

**QUALITY CONTROL REPORT** **VAN22000567.1**

Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1	
Pulp Duplicates																					
IMA5964	Rock Pulp	2.1	129.9	4.7	80	<0.1	139.9	38.2	292	6.14	12	2.2	8.0	155	<0.1	0.3	0.2	147	0.71	0.073	17.2
REP IMA5964	QC	2.0	141.7	4.9	79	<0.1	140.8	37.8	296	6.17	10	2.2	8.2	155	<0.1	0.3	0.2	145	0.73	0.073	16.7
IMA6000	Rock Pulp	1.1	2.3	11.5	4	<0.1	3.5	0.6	74	0.37	<1	3.2	4.1	553	<0.1	<0.1	<0.1	3	0.35	0.009	14.9
REP IMA6000	QC	1.1	2.3	11.6	4	<0.1	3.5	0.6	73	0.37	<1	3.0	4.2	532	<0.1	<0.1	<0.1	3	0.33	0.009	15.2
IMA6036	Rock Pulp	0.9	37.4	1.7	9	<0.1	23.3	13.1	101	5.03	53	3.3	7.8	1560	<0.1	8.2	0.3	55	2.04	0.029	30.3
REP IMA6036	QC	0.7	35.2	1.6	9	<0.1	23.2	13.1	104	5.03	55	3.2	7.5	1503	<0.1	8.2	0.3	54	1.97	0.030	30.6
Reference Materials																					
STD OREAS25A-4A	Standard	2.3	32.0	23.3	45	<0.1	45.9	7.8	486	6.45	9	2.5	14.5	46	<0.1	0.5	0.3	153	0.30	0.045	22.1
STD OREAS25A-4A	Standard	2.4	32.3	23.9	43	<0.1	46.9	7.8	495	6.57	9	2.5	14.1	46	<0.1	0.6	0.3	152	0.28	0.051	20.2
STD OREAS45H	Standard	1.5	784.1	12.3	42	0.2	441.4	93.4	403	20.82	18	1.6	7.1	27	<0.1	0.5	0.2	269	0.14	0.022	13.0
STD OREAS45H	Standard	1.5	817.6	12.8	43	0.2	465.8	95.0	416	20.41	17	1.7	7.4	27	<0.1	0.6	0.2	283	0.14	0.023	13.6
STD OREAS45H	Standard	1.5	813.2	12.1	40	0.1	491.6	94.3	438	19.39	17	1.6	6.8	28	<0.1	0.6	0.2	287	0.13	0.024	11.5
STD OREAS45H	Standard	1.5	810.7	11.7	40	0.1	473.3	94.5	437	19.15	16	1.5	7.0	28	<0.1	0.6	0.2	277	0.14	0.023	13.2
STD OREAS501D	Standard	93.5	2632.0	25.2	87	0.6	22.4	9.7	367	3.29	12	3.8	13.5	201	0.3	2.1	1.3	72	1.79	0.082	35.4
STD OREAS501D	Standard	96.1	2750.8	25.7	89	0.7	23.3	9.7	387	3.41	12	3.7	13.0	211	0.3	2.2	1.3	74	1.82	0.090	31.3
STD OREAS501D Expected		95	2720	25.2	90	0.664	21	9.57	370	3.37	15.1	3.88	14	212	0.3	2.25	1.26	71	1.85	0.087	34.8
STD OREAS45H Expected		1.55	767	12.2	39.7	0.147	451	92	405	20.4	16.9	1.68	7.6	28		0.63	0.17	275	0.135	0.023	13.3
STD OREAS25A-4A Expected		2.41	33.9	25.2	44.4		45.8	7.7	480	6.6	9.94	2.94	15.8	48.5		0.65	0.37	157	0.301	0.048	21.8
BLK	Blank	<0.1	0.4	<0.1	<1	<0.1	0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	<0.1
BLK	Blank	<0.1	0.3	0.2	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	<0.1
BLK	Blank	<0.1	<0.1	0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	<0.1
BLK	Blank	<0.1	<0.1	0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	<0.1

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.





Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

Project: None Given  
Report Date: April 18, 2022

Page: 1 of 1 Part: 2 of 3

# QUALITY CONTROL REPORT

VAN22000567.1

Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Cr	Mg	Ba	Tl	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf	
Unit	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	
MDL	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1	
Pulp Duplicates																					
IMA5964	Rock Pulp	217	3.83	50	0.068	7.86	4.741	0.04	0.7	126.3	38	0.4	6.5	1.0	0.2	<1	15	44.0	0.9	<0.1	3.3
REP IMA5964	QC	213	3.89	49	0.069	7.98	4.759	0.04	0.7	123.1	38	0.4	6.6	0.9	0.2	<1	15	43.8	0.9	<0.1	3.3
IMA6000	Rock Pulp	96	0.11	1263	0.061	6.01	2.174	5.20	0.6	21.3	27	1.1	21.8	15.3	1.1	3	<1	7.1	<0.1	274.3	0.7
REP IMA6000	QC	94	0.11	1277	0.066	5.76	2.141	5.15	0.5	20.4	27	1.1	21.0	15.3	1.1	3	<1	7.3	<0.1	266.7	0.6
IMA6036	Rock Pulp	80	2.78	15	0.419	6.62	4.941	0.18	62.4	113.8	66	1.4	22.2	9.6	0.6	<1	9	25.5	5.5	4.1	3.4
REP IMA6036	QC	74	2.78	14	0.412	6.51	4.841	0.18	48.3	111.6	66	1.4	22.3	9.6	0.6	<1	9	25.4	5.5	4.3	3.3
Reference Materials																					
STD OREAS25A-4A	Standard	110	0.33	137	0.881	8.79	0.133	0.48	1.7	144.3	46	3.4	9.4	17.6	1.3	<1	13	33.3	<0.1	61.1	3.9
STD OREAS25A-4A	Standard	118	0.34	155	0.948	8.75	0.137	0.49	1.8	154.3	45	3.7	9.9	19.5	1.4	<1	14	38.1	<0.1	59.7	4.0
STD OREAS45H	Standard	688	0.26	338	0.877	8.04	0.102	0.21	0.8	124.1	23	1.9	9.3	13.1	0.9	1	60	12.8	<0.1	22.5	3.3
STD OREAS45H	Standard	716	0.27	346	0.884	8.49	0.101	0.22	0.9	127.6	24	1.9	9.6	14.0	1.0	1	61	13.7	<0.1	23.0	3.4
STD OREAS45H	Standard	718	0.26	322	0.963	8.09	0.097	0.21	0.9	128.6	22	1.9	9.0	14.4	0.9	1	58	14.2	<0.1	23.8	3.4
STD OREAS45H	Standard	683	0.26	337	0.923	8.49	0.100	0.21	0.9	125.8	24	1.9	10.1	14.3	0.9	1	59	13.5	<0.1	22.9	3.2
STD OREAS501D	Standard	45	0.80	985	0.364	7.73	2.132	3.23	9.5	62.4	73	4.3	14.9	11.1	0.9	3	9	48.3	0.4	161.6	1.9
STD OREAS501D	Standard	47	0.82	991	0.383	7.45	2.260	3.21	9.9	69.1	65	4.7	15.4	12.1	1.0	3	9	55.5	0.4	166.3	2.0
STD OREAS501D Expected		45.4	0.827	993	0.359	7.69	2.07	3.01	8.56	62	73	4.86	15.7	12.2	1.09	2.65	9.47	51	0.38	164	2
STD OREAS45H Expected		660	0.2575	342	0.878	8.2	0.09	0.215	0.9	126	24.3	1.93	10.4	13.8	1	1.09	59	13.9		22.5	3.42
STD OREAS25A-4A Expected		115	0.327	147	0.93	8.87	0.131	0.482	2	155	47.3	4.06	10.5	20.9	1.4	0.93	13.7	36.7	0.047	61	4.14
BLK	Blank	<1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1
BLK	Blank	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1
BLK	Blank	<1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	0.1	<0.1	<0.1	<0.1
BLK	Blank	<1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** MacGregor, R.A.  
28 Ford St.  
Sault Ste. Marie Ontario P6A 4N4 Canada

**Project:** None Given  
**Report Date:** April 18, 2022

**Page:** 1 of 1

**Part:** 3 of 3

## QUALITY CONTROL REPORT

VAN22000567.1

Method	MA200	MA200	MA200	MA200	MA200	
Analyte	In	Re	Se	Te	Tl	
Unit	ppm	ppm	ppm	ppm	ppm	
MDL	0.05	0.005	1	0.5	0.5	
Pulp Duplicates						
IMA5964	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
REP IMA5964	QC	<0.05	<0.005	<1	<0.5	<0.5
IMA6000	Rock Pulp	<0.05	<0.005	<1	<0.5	2.0
REP IMA6000	QC	<0.05	<0.005	<1	<0.5	2.0
IMA6036	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
REP IMA6036	QC	<0.05	<0.005	<1	<0.5	<0.5
Reference Materials						
STD OREAS25A-4A	Standard	0.08	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	0.08	<0.005	3	<0.5	<0.5
STD OREAS45H	Standard	0.10	<0.005	2	<0.5	<0.5
STD OREAS45H	Standard	0.11	<0.005	2	<0.5	<0.5
STD OREAS45H	Standard	0.11	<0.005	2	<0.5	<0.5
STD OREAS45H	Standard	0.09	<0.005	2	<0.5	<0.5
STD OREAS501D	Standard	0.07	0.047	2	<0.5	0.9
STD OREAS501D	Standard	0.08	0.046	2	<0.5	0.9
STD OREAS501D Expected		0.086	0.049			0.91
STD OREAS45H Expected		0.1		2.02		
STD OREAS25A-4A Expected		0.09		2.4		0.35
BLK	Blank	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.05	<0.005	<1	<0.5	<0.5



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Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

**Client:** **MacGregor, R.A.**  
28 Ford St.  
Sault Ste. Marie Ontario P6A 4N4 Canada

Submitted By: R.A. MacGregor  
Receiving Lab: Canada-Vancouver  
Received: December 12, 2022  
Analysis Start: December 15, 2022  
Report Date: December 23, 2022  
Page: 1 of 6

## CERTIFICATE OF ANALYSIS

**VAN22003583.1**

### CLIENT JOB INFORMATION

Project: None Given  
Shipment ID:  
P.O. Number  
Number of Samples: 128

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SLBHP	128	Sorting, labeling and boxing samples received as pulps			VAN
GC840	128	Trace level F by specific ion electrode	0.2	Completed	VAN

### SAMPLE DISPOSAL

IMM-PLP Return immediately after analysis

### ADDITIONAL COMMENTS

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: **MacGregor, R.A.**  
28 Ford St.  
Sault Ste. Marie Ontario P6A 4N4  
Canada

CC:

  
ERIC LAU  
Wet Assay Supervisor

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PHONE (604) 253-3158

**Client:** **MacGregor, R.A.**  
28 Ford St.  
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given  
Report Date: December 23, 2022

Page: 3 of 6

Part: 1 of 1

# CERTIFICATE OF ANALYSIS

VAN22003583.1

	Method	GC840
	Analyte	F
	Unit	ppm
	MDL	10
F253	Rock Pulp	978
F254	Rock Pulp	566
F255	Rock Pulp	1015
F256	Rock Pulp	672
F257	Rock Pulp	581
F258	Rock Pulp	1604
F259	Rock Pulp	549
F260	Rock Pulp	549
F261	Rock Pulp	470
F262	Rock Pulp	46
F263	Rock Pulp	1777
F264	Rock Pulp	932
F265	Rock Pulp	576
F266	Rock Pulp	896
F267	Rock Pulp	49
F268	Rock Pulp	1337
F269	Rock Pulp	1629
F270	Rock Pulp	603
F271	Rock Pulp	104
F272	Rock Pulp	1921
F273	Rock Pulp	875
F274	Rock Pulp	607
F275	Rock Pulp	2845
F276	Rock Pulp	111
F277	Rock Pulp	275
F278	Rock Pulp	821
F279	Rock Pulp	294
F280	Rock Pulp	398
F281	Rock Pulp	41
F282	Rock Pulp	531



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PHONE (604) 253-3158

**Client:** MacGregor, R.A.  
28 Ford St.  
Sault Ste. Marie Ontario P6A 4N4 Canada

**Project:** None Given  
**Report Date:** December 23, 2022

**Page:** 1 of 1 **Part:** 1 of 1

# QUALITY CONTROL REPORT

VAN22003583.1

Method	GC840	
Analyte	F	
Unit	ppm	
MDL	10	
Pulp Duplicates		
F253	Rock Pulp	978
REP F253	QC	990
F289	Rock Pulp	720
REP F289	QC	730
F314	Rock Pulp	2225
REP F314	QC	2157
F325	Rock Pulp	547
REP F325	QC	545
F348	Rock Pulp	72
REP F348	QC	69
Reference Materials		
STD OREAS993	Standard	506
STD OREAS993	Standard	505
STD OREAS993	Standard	502
STD OREAS993	Standard	523
STD OREAS993	Standard	489
STD STSD-1	Standard	928
STD STSD-1	Standard	1059
STD STSD-1	Standard	941
STD STSD-1	Standard	995
STD STSD-1	Standard	1099
STD STSD-1 Expected		950
STD OREAS993 Expected		511
BLK	Blank	19
BLK	Blank	45
BLK	Blank	13
BLK	Blank	10
BLK	Blank	<10



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Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

**Client:** **MacGregor, R.A.**  
28 Ford St.  
Sault Ste. Marie Ontario P6A 4N4 Canada

Submitted By: R.A. MacGregor  
Receiving Lab: Canada-Vancouver  
Received: July 04, 2022  
Analysis Start: July 07, 2022  
Report Date: July 29, 2022  
Page: 1 of 4

## CERTIFICATE OF ANALYSIS

VAN22001984.1

### CLIENT JOB INFORMATION

Project: None Given  
Shipment ID:  
P.O. Number  
Number of Samples: 69

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SLBHP	69	Sorting, labeling and boxing samples received as pulps			VAN
GC840	69	Trace level F by specific ion electrode	0.2	Completed	VAN

### SAMPLE DISPOSAL

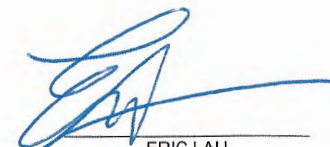
IMM-PLP Return immediately after analysis

### ADDITIONAL COMMENTS

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: **MacGregor, R.A.**  
28 Ford St.  
Sault Ste. Marie Ontario P6A 4N4  
Canada

CC:

  
ERIC LAU  
Wet Assay Supervisor

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

**Client:** **MacGregor, R.A.**  
28 Ford St.  
Sault Ste. Marie Ontario P6A 4N4 Canada

**Project:** None Given  
**Report Date:** July 29, 2022

**Page:** 2 of 4

**Part:** 1 of 1

# CERTIFICATE OF ANALYSIS

VAN22001984.1

Method	GC840
Analyte	F
Unit	ppm
MDL	10
F054	Rock Pulp 14
F055	Rock Pulp <10
F056	Rock Pulp 889
F057	Rock Pulp 1756
F058	Rock Pulp 49
F059	Rock Pulp 459
F060	Rock Pulp 452
F061	Rock Pulp 1353
F062	Rock Pulp 1188
F063	Rock Pulp 68
F064	Rock Pulp 3592
F065	Rock Pulp 1500
F066	Rock Pulp 1154
F067	Rock Pulp 1117
F068	Rock Pulp 106
F069	Rock Pulp 2010
F070	Rock Pulp 565
F071	Rock Pulp 444
F072	Rock Pulp 2010
F073	Rock Pulp 1224
F074	Rock Pulp 39
F075	Rock Pulp 624
F076	Rock Pulp 473
F077	Rock Pulp 37
F078	Rock Pulp 291
F079	Rock Pulp 1641
F080	Rock Pulp 1068
F081	Rock Pulp 2341
F082	Rock Pulp 28
F083	Rock Pulp 1900

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**Client:** MacGregor, R.A.  
28 Ford St.  
Sault Ste. Marie Ontario P6A 4N4 Canada

**Project:** None Given  
**Report Date:** July 29, 2022

**Page:** 3 of 4 **Part:** 1 of 1

# CERTIFICATE OF ANALYSIS

VAN22001984.1

Method	GC840
Analyte	F
Unit	ppm
MDL	10
F084	Rock Pulp 26
F085	Rock Pulp 221
F086	Rock Pulp 2255
F087	Rock Pulp 34
F088	Rock Pulp 19
F089	Rock Pulp 980
F090	Rock Pulp 3452
F091	Rock Pulp 1546
F092	Rock Pulp 131
F093	Rock Pulp 101
F094	Rock Pulp 812
F095	Rock Pulp 2596
F096	Rock Pulp 2488
F097	Rock Pulp 2201
F098	Rock Pulp 660
F099	Rock Pulp >10000
F100	Rock Pulp >10000
F101	Rock Pulp 574
F102	Rock Pulp 2029
F103	Rock Pulp 777
F104	Rock Pulp 1353
F105	Rock Pulp 966
F106	Rock Pulp 1845
F107	Rock Pulp 702
F108	Rock Pulp 1546
F109	Rock Pulp 931
F110	Rock Pulp 4554
F111	Rock Pulp 5962
F112	Rock Pulp 152
F113	Rock Pulp 3131





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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** **MacGregor, R.A.**  
28 Ford St.  
Sault Ste. Marie Ontario P6A 4N4 Canada

**Project:** None Given  
**Report Date:** July 29, 2022

**Page:** 4 of 4

**Part:** 1 of 1

## CERTIFICATE OF ANALYSIS

**VAN22001984.1**

	Method	GC840
	Analyte	F
	Unit	ppm
	MDL	10
F114	Rock Pulp	932
F115	Rock Pulp	686
F116	Rock Pulp	560
F117	Rock Pulp	>10000
F118	Rock Pulp	269
F119	Rock Pulp	1106
F120	Rock Pulp	299
F121	Rock Pulp	966
F122	Rock Pulp	913



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PHONE (604) 253-3158

**Client:** **MacGregor, R.A.**  
28 Ford St.  
Sault Ste. Marie Ontario P6A 4N4 Canada

**Project:** None Given  
**Report Date:** July 29, 2022

**Page:** 1 of 1

**Part:** 1 of 1

## QUALITY CONTROL REPORT

**VAN22001984.1**

	Method	GC840
	Analyte	F
	Unit	ppm
	MDL	10
Pulp Duplicates		
F089	Rock Pulp	980
REP F089	QC	985
F122	Rock Pulp	913
REP F122	QC	889
Reference Materials		
STD OREAS993	Standard	525
STD OREAS993	Standard	497
STD STSD-1	Standard	1005
STD STSD-1	Standard	1058
STD STSD-1 Expected		950
STD OREAS993 Expected		511
BLK	Blank	<10
BLK	Blank	<10



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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

**Client: MacGregor, R.A.**  
28 Ford St.  
Sault Ste. Marie Ontario P6A 4N4 Canada

Submitted By: R.A. MacGregor  
Receiving Lab: Canada-Vancouver  
Received: January 24, 2022  
Analysis Start: February 16, 2022  
Report Date: April 06, 2022  
Page: 1 of 3

## CERTIFICATE OF ANALYSIS

VAN22000404.1

### CLIENT JOB INFORMATION

Project: None Given  
Shipment ID:  
P.O. Number  
Number of Samples: 53

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SLBHP	53	Sorting, labeling and boxing samples received as pulps			VAN
GC840	53	Trace level F by specific ion electrode	0.2	Completed	VAN

### SAMPLE DISPOSAL

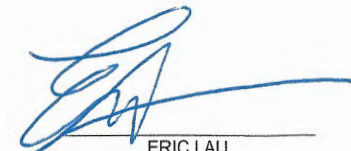
IMM-PLP Return immediately after analysis

### ADDITIONAL COMMENTS

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: MacGregor, R.A.  
28 Ford St.  
Sault Ste. Marie Ontario P6A 4N4  
Canada

CC:

  
ERIC LAU  
Wet Assay Supervisor

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** **MacGregor, R.A.**  
28 Ford St.  
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given  
Report Date: April 06, 2022

Page: 3 of 3

Part: 1 of 1

# CERTIFICATE OF ANALYSIS

VAN22000404.1

	Method	GC840
	Analyte	F
	Unit	ppm
	MDL	10
F031	Rock Pulp	189
F032	Rock Pulp	804
F033	Rock Pulp	849
F034	Rock Pulp	4687
F035	Rock Pulp	777
F036	Rock Pulp	2372
F037	Rock Pulp	467
F038	Rock Pulp	878
F039	Rock Pulp	1560
F040	Rock Pulp	995
F041	Rock Pulp	610
F042	Rock Pulp	>10000
F043	Rock Pulp	3721
F044	Rock Pulp	64
F045	Rock Pulp	5343
F046	Rock Pulp	428
F047	Rock Pulp	4020
F048	Rock Pulp	1004
F049	Rock Pulp	804
F050	Rock Pulp	574
F051	Rock Pulp	9320
F052	Rock Pulp	1124
F053	Rock Pulp	290



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** MacGregor, R.A.  
28 Ford St.  
Sault Ste. Marie Ontario P6A 4N4 Canada

**Project:** None Given  
**Report Date:** April 06, 2022

**Page:** 1 of 1 **Part:** 1 of 1

# QUALITY CONTROL REPORT

VAN22000404.1

Method	GC840
Analyte	F
Unit	ppm
MDL	10
Pulp Duplicates	
F021 Rock Pulp	330
REP F021 QC	322
F046 Rock Pulp	428
REP F046 QC	438
Reference Materials	
STD OREAS993 Standard	514
STD OREAS993 Standard	523
STD STSD-1 Standard	1015
STD STSD-1 Standard	1095
STD STSD-1 Expected	950
STD OREAS993 Expected	511
BLK Blank	30
BLK Blank	17

**Appendix III**

**Cost Receipts**

**Appendix IV**

**Daily Log of Work Hours**

# Daily Log

Date	Activity	Hours.
Dec. 15/21	pick up, store samples from Luostika Leh	1
Jan 12/22	retrieve, package & mail samples (F)	2
Feb 15/22	retrieve, package & mail samples (IMA)	3
June 27/22	retrieve, package & mail samples (F)	3
Aug 22/22	retrieve, package & mail samples (REE)	1
	Total	10 hrs.