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Report on

Sample Analysis

Claims 209248 and 311831

Hearst Township

Larder Lake Mining Division

Summary

Fifteen grab samples previously collected by Noranda geologists and analysed for Au and As were retrieved from Skead Holdings Ltd. Archives and analysed for 45 elements by ICP-MS

Location

The samples were taken from former claim L 1136762 now cell claims 209248 and 311831 held by Skead Holdings Ltd. Located in the north central part of Hearst Twp. Larder Lake Mining Division. The sampling locations are close to the shore of Larder Lake, approximately 3 km east of the town of Larder Lake and can be reached by boat.

Assay Work

Pulps of grab samples previously taken and analysed for Au and As had been archived in 40 dram plastic vials. The vials were recovered, the contents dumped on a pad, mixed and a 20-30 gram sample placed in marked paper envelopes. The samples were shipped to Bureau Veritas in Vancouver and analysed for 45 elements by ICP-MS after a four acid dissolution. A plan of the original sampling locations and a brief description of the samples is appended. A list of sample numbers with assay numbers is also appended.

Results

The 15 samples showed 12 samples with >10 ppm As; 11 samples with >0.5% S and 9 samples with >1.0 ppm Tl. Previous analysis gave only 3 samples >10 ppb Au with the highest 40 ppb. It would appear that 10 ppb was the threshold for Au.

Samples

Sample Numbers

Assay Numbers

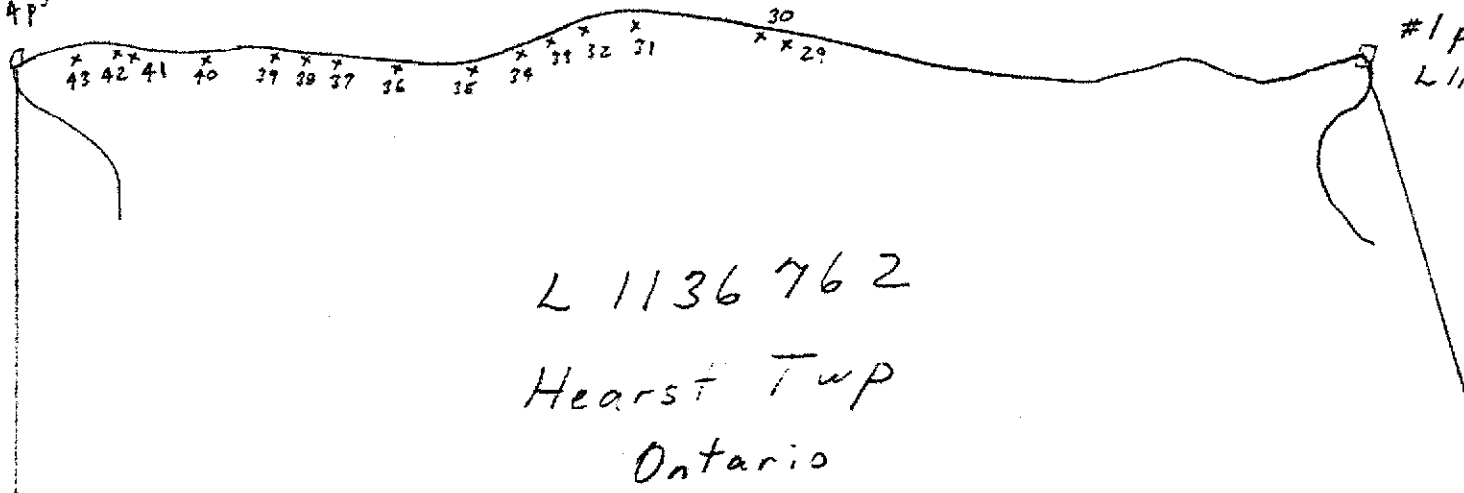
18029	5052
18030	5051
18031	5050
18032	5049
18033	5048
18034	5047
18035	5046
18036	5045
18037	5044
18038	5043
18039	5042
18040	5041
18041	5040
18042	5039
18043	5026

Costs

Analysis	Bureau Veritas Oct. 29/19 to Nov. 04/19 15 samples @ 21.55/sample	323.25
Samples	Retrieve, mix and package R. MacGregor Oct. 16/19 2hrs @ 50/hr	100.00
Report	R. MacGregor April 20, 2020	200.00
	Total	623.25

Harder Lake

#4 post L1136762



#1 post
L1136762

L 1136762

Hearst Twp

Ontario

Scale 1" = 200'



- ### Legend
- Provincial Grid Cell**
 - Available
 - Pending
 - Unavailable
 - Mining Claim**
 - Mining Claim
 - Boundary Claim
 - Alienation**
 - Withdrawal
 - Notice
 - ENDM Administrative Boundaries**
 - ENDM Townships and Areas
 - Geographic Lot Fabric
 - UTM Grid 1K
 - UTM Grid 10K
 - Mining Division
 - Mineral Exploration and Development Region
 - CLUPA Protected Area - Far North
 - Resident Geologist District
 - Federal Land Other
 - Native Reserves
 - AMIS Sites**
 - AMIS Sites
 - AMIS Features
 - Drill Hole
 - Mineral Occurrences**
 - MLAS Mining History**
 - Withdrawal - History
 - Notice - History
 - Mining Claim - History
 - Mining Land Tenure - History
 - Legacy Claim
 - Provincial Grid**
 - Provincial Grid 250K
 - Provincial Grid 50K
 - Provincial Grid Group
 - Land Tenure**
 - Surface Rights
 - Mining Rights
 - Mining and Surface Rights
 - Order-in-Council



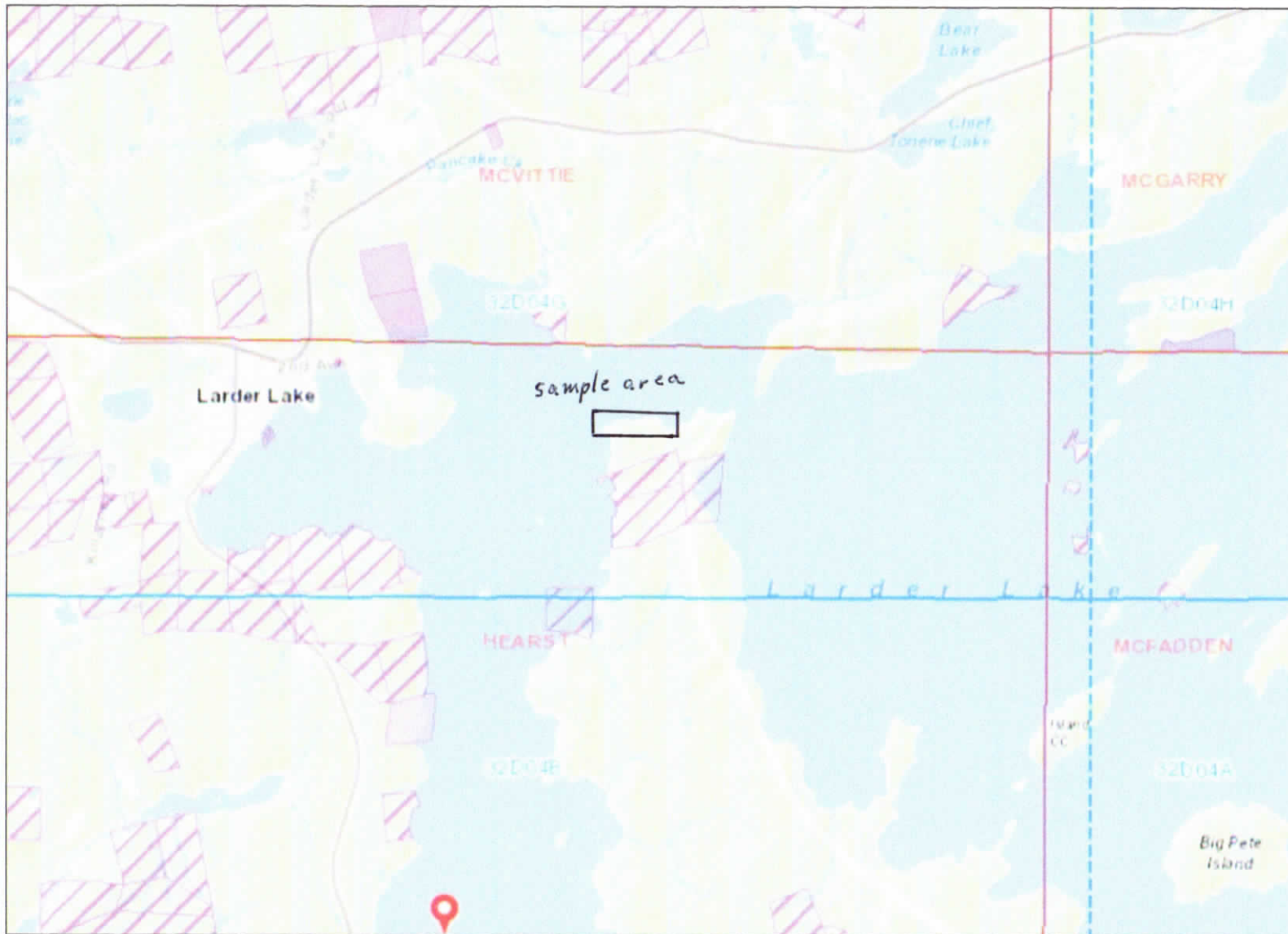
Projection: Web Mercator



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Legend

- Provincial Grid Cell**
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MINERAL LABORATORIES
Canada

www.bureauveritas.com/um

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: October 29, 2019
Report Date: November 04, 2019
Page: 1 of 4

CERTIFICATE OF ANALYSIS

VAN19003242.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 82

SAMPLE DISPOSAL

IMM-PLP Return immediately after analysis

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:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SLBHP	82	Sorting, labeling and boxing samples received as pulps			VAN
MA200	82	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
EN001-MA	82	Environmental disposal fee - Multi-acid neutralization			VAN

ADDITIONAL COMMENTS



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

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

Project: None Given
Report Date: November 04, 2019

Page: 2 of 4

Part: 1 of 3

CERTIFICATE OF ANALYSIS

VAN19003242.1

Method	Analyte	Unit	MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm			
IMA 5011	Pulp			2.0	61.2	5.0	152	<0.1	199.3	42.1	1198	5.71	4	0.3	2.2	399	0.1	0.1	0.2	187	3.95	0.062	7.1
IMA 5012	Pulp			0.6	71.0	19.7	157	<0.1	193.8	42.4	1275	8.29	10	0.7	3.4	351	<0.1	<0.1	0.2	194	4.91	0.156	16.7
IMA 5013	Pulp			8.2	93.3	26.2	1173	0.1	52.2	34.2	1338	5.59	5	1.7	8.5	238	2.8	0.2	0.2	199	4.37	0.118	31.4
IMA 5014	Pulp			1.2	67.0	103.7	238	0.1	224.6	38.3	1257	8.42	22	0.3	1.1	236	0.4	0.1	0.1	195	3.88	0.078	6.5
IMA 5015	Pulp			1.1	69.8	3.8	125	<0.1	213.5	35.8	962	5.20	7	0.4	1.5	343	0.1	<0.1	<0.1	154	3.71	0.087	7.4
IMA 5018	Pulp			2.8	97.2	5.5	384	<0.1	43.9	61.8	1246	8.82	19	0.3	1.0	175	0.8	0.2	0.1	480	1.92	0.080	5.7
IMA 5017	Pulp			3.1	124.5	7.7	588	0.2	42.2	53.0	1070	8.71	22	0.4	0.9	178	0.9	0.2	<0.1	387	2.28	0.051	5.2
IMA 5018	Pulp			2.7	117.9	8.5	423	0.1	38.5	53.0	1285	8.29	15	0.3	0.8	207	0.8	0.4	<0.1	430	2.38	0.057	5.7
IMA 5019	Pulp			2.4	129.1	4.1	417	<0.1	44.0	55.4	1360	8.37	28	0.2	0.8	253	0.6	0.2	<0.1	489	3.19	0.059	6.5
IMA 5020	Pulp			2.3	129.4	4.2	758	0.1	44.8	57.3	1514	8.90	32	0.2	0.9	172	1.1	0.2	<0.1	464	2.11	0.083	6.5
IMA 5021	Pulp			2.9	107.5	4.7	338	<0.1	38.5	54.4	1339	7.41	15	0.3	0.8	177	0.5	0.2	<0.1	483	2.03	0.083	5.9
IMA 5022	Pulp			3.6	110.7	4.8	383	<0.1	45.2	51.1	1858	8.88	17	0.3	1.0	232	0.7	0.3	<0.1	475	3.08	0.057	6.9
IMA 5023	Pulp			3.3	101.5	4.0	443	<0.1	46.4	53.0	1220	5.58	29	0.2	0.8	245	0.6	0.2	<0.1	481	3.00	0.059	6.1
IMA 5024	Pulp			2.6	114.3	5.4	373	<0.1	40.4	53.0	1936	7.16	21	0.2	0.8	194	0.6	0.2	<0.1	460	3.23	0.053	6.2
IMA 5025	Pulp			2.6	124.0	6.9	533	0.2	43.6	55.0	1304	8.67	21	0.3	0.8	193	0.7	0.3	<0.1	427	1.95	0.050	5.3
IMA 5028	Pulp			1.4	111.8	6.2	124	0.1	54.2	14.9	1213	10.73	12	0.2	0.2	64	0.1	0.6	<0.1	285	1.96	0.021	2.0
IMA 5027	Pulp			0.1	43.0	5.6	97	<0.1	58.6	30.0	1166	5.78	2	1.1	4.2	521	<0.1	<0.1	<0.1	172	4.46	0.141	21.2
IMA 5028	Pulp			1.1	56.5	10.7	106	<0.1	161.4	29.2	705	4.85	7	0.5	2.0	761	<0.1	<0.1	<0.1	140	1.83	0.050	15.3
IMA 5029	Pulp			3.4	61.5	35.9	85	0.2	98.7	25.9	554	4.37	1	1.8	5.9	402	<0.1	0.1	0.5	154	0.84	0.074	14.4
IMA 5030	Pulp			0.1	95.5	20.4	93	<0.1	106.2	26.4	782	4.75	3	1.8	10.1	1566	<0.1	0.2	<0.1	147	4.24	0.203	80.6
IMA 5031	Pulp			<0.1	61.4	7.7	66	0.1	171.9	34.6	927	5.02	<1	1.7	7.2	631	<0.1	0.2	0.2	134	4.67	0.187	43.2
IMA 5032	Pulp			0.8	30.7	10.7	61	<0.1	76.3	17.1	438	3.42	6	1.1	4.0	155	<0.1	0.1	<0.1	110	0.49	0.081	8.8
IMA 5033	Pulp			0.4	14.6	5.7	15	<0.1	8.9	3.9	216	0.64	2	0.9	6.7	552	<0.1	<0.1	0.1	7	0.66	0.025	26.5
IMA 5034	Pulp			1.0	18.1	7.4	86	<0.1	107.5	23.4	848	4.09	<1	1.6	6.1	271	<0.1	0.2	0.1	134	1.04	0.058	11.8
IMA 5035	Pulp			1.5	25.1	12.5	75	<0.1	70.0	14.8	504	3.42	2	1.6	5.9	313	<0.1	0.2	0.1	96	0.70	0.055	12.6
IMA 5036	Pulp			1.2	41.4	26.8	89	0.1	80.8	18.9	605	3.69	4	1.8	5.7	393	0.1	0.2	0.1	103	1.26	0.054	17.1
IMA 5037	Pulp			1.6	63.1	46.8	115	0.2	94.2	21.7	521	3.66	2	1.6	5.6	505	0.4	0.2	0.2	118	1.21	0.052	20.1
IMA 5038	Pulp			1.9	17.8	7.1	95	<0.1	116.1	21.3	530	4.72	2	1.7	5.4	105	<0.1	<0.1	<0.1	179	0.51	0.064	1.7
IMA 5039	Pulp			2.1	111.5	7.7	93	0.1	35.0	25.8	902	12.58	22	0.2	0.2	59	<0.1	0.9	<0.1	247	2.01	0.019	1.8
IMA 5040	Pulp			1.2	67.5	2.5	145	<0.1	94.3	41.5	1549	7.23	14	0.1	0.2	81	0.2	0.5	<0.1	301	3.83	0.024	2.2



BUREAU VERITAS

MINERAL LABORATORIES

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

Project: None Given
Report Date: November 04, 2019

Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
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Page: 2 of 4 Part: 2 of 3

CERTIFICATE OF ANALYSIS

VAN19003242.1

Table with columns: Method, Analyte, Unit, MDL, and 20 MA200 elements (Cr, Mg, Ba, Tl, Al, Na, K, W, Zr, Ce, Sn, Y, Nb, Ta, Be, Sc, Li, S, Rb, Hf). Rows include IMA 5011 through IMA 5040 with corresponding values for each element.

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

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Method	Analyte	Unit	MA200	MA200	MA200	MA200	MA200
			In	Re	Se	Te	TI
MDL			ppm	ppm	ppm	ppm	ppm
			0.05	0.006	1	0.5	0.5
IMA 5011	Pulp		0.07	<0.005	<1	0.9	<0.5
IMA 5012	Pulp		0.08	<0.005	<1	1.4	0.8
IMA 5013	Pulp		0.47	<0.005	1	0.6	0.7
IMA 5014	Pulp		<0.05	<0.005	<1	0.9	0.8
IMA 5015	Pulp		<0.05	<0.005	<1	1.3	0.5
IMA 5016	Pulp		0.18	0.007	2	<0.5	0.5
IMA 5017	Pulp		0.14	0.006	2	<0.5	1.3
IMA 5018	Pulp		0.17	0.006	1	<0.5	0.8
IMA 5019	Pulp		0.20	<0.005	<1	<0.5	<0.5
IMA 5020	Pulp		0.24	<0.005	2	<0.5	0.9
IMA 5021	Pulp		0.14	<0.005	<1	<0.5	<0.5
IMA 5022	Pulp		0.18	<0.005	<1	<0.5	<0.6
IMA 5023	Pulp		0.25	<0.005	<1	<0.5	<0.5
IMA 5024	Pulp		0.17	<0.005	<1	<0.5	0.5
IMA 5025	Pulp		0.15	<0.005	2	<0.5	0.7
IMA 5026	Pulp		0.10	<0.005	<1	0.7	2.2
IMA 5027	Pulp		0.08	<0.005	<1	1.0	0.8
IMA 5028	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA 5029	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA 5030	Pulp		<0.05	<0.005	<1	0.9	0.7
IMA 5031	Pulp		<0.05	<0.005	<1	0.8	0.5
IMA 5032	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA 5033	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA 5034	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA 5035	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA 5036	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA 5037	Pulp		<0.05	<0.005	<1	0.5	0.6
IMA 5038	Pulp		<0.05	<0.005	<1	<0.5	0.6
IMA 5039	Pulp		0.06	<0.005	<1	<0.5	2.0
IMA 5040	Pulp		0.07	<0.005	<1	0.7	3.1



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Table with columns: Method, Analyte, Unit, MDL, and 20 MA200 columns (Mo, Cu, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, U, Th, Sr, Cd, Sb, Bi, V, Ca, P). Rows include IMA 5041 through IMA 5070 with various analyte values.



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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		
				1	0.01	1	0.001	0.01	0.001	0.01	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
IMA 5041	Pulp			364	4.58	197	0.448	7.88	1.234	0.89	1.1	23.5	6	0.6	133	1.4	<0.1	<1	42	41.1	1.4	24.2	0.8
IMA 5042	Pulp			385	3.94	217	0.446	7.09	0.603	1.03	0.7	29.4	4	0.8	80	1.5	0.1	<1	39	39.2	1.2	32.2	0.7
IMA 5043	Pulp			458	3.26	170	0.392	6.04	0.801	0.65	3.4	22.3	4	1.1	7.6	1.3	<0.1	<1	33	35.5	0.4	21.2	1.1
IMA 5044	Pulp			389	3.97	258	0.457	7.35	1.036	1.03	1.0	36.0	5	0.6	10.1	1.5	0.1	<1	44	30.2	0.8	32.6	0.9
IMA 5045	Pulp			379	4.19	258	0.456	7.81	1.378	1.14	1.2	18.6	4	1.3	8.9	1.6	0.1	<1	39	37.2	1.3	24.6	0.6
IMA 5046	Pulp			381	3.90	208	0.426	7.87	0.579	0.43	2.8	22.4	5	0.8	11.7	1.5	0.1	<1	42	22.7	2.3	12.1	0.6
IMA 5047	Pulp			338	4.00	55	0.430	7.45	0.761	0.17	0.9	25.9	7	1.0	15.3	1.8	0.1	<1	42	23.6	0.3	4.3	0.6
IMA 5048	Pulp			391	4.33	63	0.434	7.43	0.991	0.16	1.0	18.4	10	1.0	15.4	1.8	0.1	<1	43	31.5	0.8	2.7	0.5
IMA 5049	Pulp			393	3.98	188	0.438	7.82	1.713	0.48	2.2	37.5	7	0.8	14.2	1.6	0.1	<1	45	10.1	0.1	13.3	1.3
IMA 5050	Pulp			1508	11.64	5	0.181	3.60	0.051	0.01	0.2	32.1	4	0.8	7.0	0.6	<0.1	1	22	21.3	0.8	0.3	0.6
IMA 5051	Pulp			359	3.34	145	0.432	7.50	1.147	0.47	0.9	16.5	8	0.9	14.4	1.6	0.1	<1	42	28.2	0.9	8.4	0.5
IMA 5052	Pulp			392	4.75	122	0.151	5.69	2.340	0.32	7.2	92.4	55	0.9	12.8	1.2	<0.1	<1	26	16.2	0.1	10.6	2.5
IMA 5053	Pulp			157	1.79	429	0.334	7.05	3.983	1.60	0.6	95.8	38	0.8	10.6	5.0	0.4	2	11	22.2	0.4	53.0	2.7
IMA 5054	Pulp			103	1.43	2141	0.362	7.80	2.290	3.89	0.4	185.2	93	1.4	17.1	14.7	0.5	5	5	20.8	<0.1	78.3	3.9
IMA 5055	Pulp			74	0.16	780	0.065	5.93	5.025	0.75	1.7	130.8	58	0.7	4.2	1.3	<0.1	<1	<1	2.4	0.3	12.3	3.8
IMA 5058	Pulp			141	1.20	1887	0.135	8.85	4.712	1.83	0.2	118.7	49	1.2	4.0	2.1	0.1	2	3	11.2	<0.1	60.2	3.4
IMA 5057	Pulp			303	4.86	1937	0.458	6.73	2.544	2.71	0.3	142.8	99	1.3	21.1	4.2	0.2	2	22	13.2	<0.1	74.2	3.7
IMA 5058	Pulp			114	1.64	3133	0.361	8.46	2.218	4.17	0.3	203.4	99	1.4	19.4	15.1	0.5	5	5	21.9	<0.1	115.1	4.7
IMA 5059	Pulp			354	4.69	789	0.450	7.17	2.519	1.66	0.5	64.3	29	0.9	13.9	2.8	0.2	<1	25	25.4	<0.1	46.4	2.0
IMA 5060	Pulp			63	0.43	1410	0.071	6.50	5.903	0.37	0.2	130.6	55	0.6	3.5	1.0	<0.1	1	1	4.2	0.2	6.7	3.8
IMA 5061	Pulp			314	4.32	677	0.508	6.92	2.964	1.57	0.5	63.0	27	0.8	14.9	2.6	0.2	<1	30	24.3	<0.1	47.9	2.2
IMA 5062	Pulp			279	4.75	3680	0.536	7.42	2.793	2.12	0.2	157.4	142	1.9	27.1	6.7	0.4	3	26	27.7	<0.1	91.3	4.1
IMA 5063	Pulp			1352	12.79	255	0.183	2.63	0.318	0.10	<0.1	26.1	21	0.3	8.5	1.6	<0.1	<1	21	3.6	<0.1	2.5	0.8
IMA 5064	Pulp			1356	12.46	259	0.162	2.64	0.311	0.10	<0.1	24.1	20	0.3	8.0	1.5	<0.1	<1	22	3.1	<0.1	2.6	0.8
IMA 5065	Pulp			52	1.53	2365	0.369	7.80	5.417	1.89	<0.1	167.3	53	1.4	10.8	6.2	0.4	3	8	5.6	<0.1	33.0	4.8
IMA 5066	Pulp			214	2.43	222	0.780	8.04	4.160	0.61	0.7	23.5	10	1.1	24.3	2.9	0.2	1	47	21.9	0.5	8.6	0.8
IMA 5067	Pulp			401	4.94	2521	0.421	6.69	2.335	2.62	0.2	223.1	200	1.1	22.0	5.3	0.3	5	18	19.1	<0.1	56.7	5.8
IMA 5068	Pulp			1371	12.58	48	0.154	3.24	0.173	0.07	<0.1	7.4	3	0.2	5.8	0.4	<0.1	<1	18	18.9	<0.1	2.8	0.3
IMA 5069	Pulp			154	3.12	698	0.394	7.84	4.807	0.90	<0.1	158.0	94	1.6	21.8	5.1	0.3	3	20	20.5	<0.1	25.4	4.1
IMA 5070	Pulp			120	3.80	2224	0.515	7.04	1.887	3.96	0.1	216.0	144	2.0	34.7	8.9	0.4	3	22	27.8	<0.1	61.3	5.8



Bureau Veritas Commodities Canada Ltd.

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Project: None Given
Report Date: November 04, 2019

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Part: 3 of 3

CERTIFICATE OF ANALYSIS

VAN19003242.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200
		In	Re	Se	Te	TI
Unit		ppm	ppm	ppm	ppm	ppm
MDL		0.06	0.005	1	0.6	0.6
IMA 5041	Pulp	0.07	<0.005	1	0.6	2.3
IMA 5042	Pulp	<0.05	<0.005	<1	<0.5	2.8
IMA 5043	Pulp	0.10	<0.005	<1	<0.5	1.9
IMA 5044	Pulp	<0.05	<0.005	<1	0.7	2.5
IMA 5045	Pulp	0.10	<0.005	1	<0.5	2.9
IMA 5046	Pulp	0.11	<0.005	2	0.6	<0.5
IMA 5047	Pulp	0.11	<0.005	<1	<0.5	<0.5
IMA 5048	Pulp	0.11	<0.005	<1	<0.5	<0.5
IMA 5049	Pulp	0.09	<0.005	<1	0.6	<0.5
IMA 5050	Pulp	0.07	<0.005	<1	2.8	<0.5
IMA 5051	Pulp	0.08	<0.005	<1	<0.5	<0.5
IMA 5052	Pulp	<0.05	<0.005	<1	0.5	<0.5
IMA 5053	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 5054	Pulp	0.06	0.005	<1	<0.5	0.8
IMA 5055	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 5056	Pulp	<0.05	<0.005	<1	<0.5	0.6
IMA 5057	Pulp	0.11	0.005	<1	0.6	0.5
IMA 5058	Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA 5059	Pulp	0.05	<0.005	<1	<0.5	<0.5
IMA 5060	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 5061	Pulp	<0.05	<0.005	<1	0.5	<0.5
IMA 5062	Pulp	0.10	<0.005	<1	0.6	0.6
IMA 5063	Pulp	<0.05	<0.005	<1	1.6	<0.5
IMA 5064	Pulp	<0.05	<0.005	<1	3.3	<0.5
IMA5065	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA5066	Pulp	0.11	<0.005	<1	<0.5	<0.5
IMA 5067	Pulp	0.05	<0.005	<1	0.8	<0.5
IMA 5068	Pulp	<0.05	<0.005	<1	3.5	<0.5
IMA 5069	Pulp	0.07	<0.005	<1	<0.5	<0.5
IMA 5070	Pulp	0.08	<0.005	<1	<0.5	<0.5



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Project: None Given
Report Date: November 04, 2019

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QUALITY CONTROL REPORT

VAN19003242.1

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																					
IMA 5038	Pulp	1.9	17.8	7.1	95	<0.1	118.1	21.3	530	4.72	2	1.7	5.4	105	<0.1	<0.1	<0.1	179	0.51	0.084	1.7
REP IMA 5038	QC	1.8	18.3	7.3	94	<0.1	126.9	21.8	589	4.85	2	1.8	5.5	103	<0.1	<0.1	<0.1	185	0.53	0.067	1.5
IMA 5074	Pulp	2.3	78.8	41.3	97	0.2	94.2	39.0	1815	8.40	10	0.2	0.4	379	1.0	0.1	0.1	335	6.11	0.035	4.2
REP IMA 5074	QC	2.4	77.9	43.2	108	0.2	96.2	40.4	1643	8.73	9	0.2	0.4	400	1.0	0.1	0.1	344	6.23	0.038	4.2
IMA 5090	Pulp	0.2	2.5	7.8	35	<0.1	21.0	7.8	378	2.56	2	1.8	8.9	438	<0.1	0.1	<0.1	58	1.59	0.119	39.8
REP IMA 5090	QC	0.2	2.7	8.1	34	<0.1	19.2	7.8	380	2.57	1	1.8	8.7	429	<0.1	<0.1	<0.1	58	1.63	0.132	39.9
Reference Materials																					
STD OREAS25A-4A	Standard	2.4	33.8	28.1	44	<0.1	46.5	7.9	486	8.38	11	2.9	18.6	45	<0.1	0.7	0.3	183	0.26	0.049	19.9
STD OREAS25A-4A	Standard	2.3	31.9	23.3	39	<0.1	44.0	7.8	474	6.30	10	2.7	15.3	44	<0.1	0.7	0.3	150	0.25	0.042	18.3
STD OREAS25A-4A	Standard	2.2	33.2	24.1	37	<0.1	43.9	7.2	514	8.41	9	2.8	14.7	45	<0.1	0.6	0.4	145	0.26	0.050	18.8
STD OREAS45E	Standard	2.5	767.8	19.0	43	0.3	480.3	81.7	547	23.80	18	2.8	14.5	18	<0.1	1.0	0.2	326	0.06	0.033	10.0
STD OREAS45E	Standard	1.9	759.7	17.4	42	0.3	441.0	57.8	549	23.37	17	2.5	13.4	18	<0.1	1.0	0.3	332	0.06	0.031	9.9
STD OREAS45H	Standard	1.6	757.3	12.5	37	0.1	419.4	83.5	420	19.40	18	1.7	7.2	29	<0.1	0.8	0.2	279	0.13	0.023	11.4
STD OREAS45E Expected		2.4	780	18.2	48.7	0.311	454	57	570	24.12	18.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065	0.034	11
STD OREAS25A-4A Expected		2.41	33.9	25.2	44.4		45.8	7.7	480	6.8	9.94	2.94	15.8	48.5		0.85	0.37	157	0.301	0.048	21.8
STD OREAS45H Expected		1.55	787	11.9	39.7	0.147	423	88	380	19.52	16.9	1.68	7.26	27.1		0.83	0.17	263	0.135	0.023	12.4
BLK	Blank	<0.1	0.2	<0.1	<1	<0.1	0.2	<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	0.2	<0.1	<1	<0.1	0.2	<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	0.2	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	<0.1



Bureau Veritas Commodities Canada Ltd.
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QUALITY CONTROL REPORT

VAN19003242.1

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																					
IMA 5038	Pulp	184	2.13	1500	0.452	7.96	0.727	3.59	2.7	110.2	8	1.4	9.0	6.9	0.5	2	19	41.5	0.2	84.2	3.1
REP IMA5038	QC	185	2.20	1446	0.467	8.36	0.724	3.69	2.6	111.4	7	1.6	8.9	6.8	0.5	1	19	44.7	0.2	84.7	3.2
IMA5074	Pulp	192	3.79	553	0.667	7.40	2.223	0.99	0.4	30.7	11	0.6	23.4	2.5	0.2	<1	41	15.9	<0.1	38.4	1.0
REP IMA 5074	QC	210	3.76	579	0.676	7.48	2.257	0.98	0.3	29.7	11	0.6	24.3	2.7	0.2	<1	43	17.7	<0.1	39.7	1.2
IMA5090	Pulp	73	1.07	1739	0.276	8.53	4.665	3.07	0.2	151.6	85	0.8	13.3	5.9	0.3	1	7	2.5	<0.1	53.4	3.9
REP IMA5090	QC	88	1.08	1677	0.271	8.58	4.796	2.89	0.2	148.8	87	0.6	12.5	5.7	0.3	3	8	2.6	<0.1	54.0	3.7
Reference Materials																					
STD OREAS25A-4A	Standard	119	0.34	143	0.945	8.71	0.136	0.48	1.9	154.1	45	4.1	10.0	19.5	1.5	<1	13	38.0	<0.1	55.7	4.0
STD OREAS25A-4A	Standard	114	0.33	140	0.924	8.33	0.123	0.44	1.9	154.0	43	4.0	9.5	20.1	1.4	<1	11	35.2	<0.1	54.5	4.2
STD OREAS25A-4A	Standard	110	0.36	144	0.876	8.36	0.125	0.47	1.8	147.0	43	3.7	9.3	18.2	1.3	<1	11	37.4	<0.1	53.8	4.2
STD OREAS45E	Standard	1032	0.16	255	0.551	6.99	0.058	0.32	1.0	94.3	23	1.2	7.4	5.9	0.5	<1	90	7.2	<0.1	22.5	2.9
STD OREAS45E	Standard	921	0.17	234	0.523	6.83	0.055	0.32	1.0	97.3	23	1.2	7.4	8.0	0.5	<1	83	6.4	<0.1	20.1	2.9
STD OREAS45H	Standard	803	0.28	333	0.852	7.92	0.092	0.19	0.9	115.5	23	1.9	8.8	12.7	0.9	<1	56	14.2	<0.1	20.6	3.3
STD OREAS45E Expected		979	0.158	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	8.8	0.54		93	6.58	0.046	21.2	3.11
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
STD OREAS45H Expected		602	0.238	332	0.878	7.99	0.09	0.205	0.99	131	23.6	1.93	10.4	14.8	1.08	1.09	57	13.1		22.5	3.6
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	0.002	<0.01	<0.1	0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	0.2	<0.1
BLK	Blank	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	0.2	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1



Bureau Veritas Commodities Canada Ltd.

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Project: None Given
Report Date: November 04, 2019

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QUALITY CONTROL REPORT

VAN19003242.1

Method Analyte Unit MDL		MA200	MA200	MA200	MA200	MA200
		In	Re	Se	Te	Tl
		ppm	ppm	ppm	ppm	ppm
		0.05	0.005	1	0.5	0.5
Pulp Duplicates						
IMA 5038	Pulp	<0.05	<0.005	<1	<0.5	0.6
REP IMA 5038	QC	<0.05	<0.005	<1	<0.05	0.6
IMA05074	Pulp	0.08	<0.005	<1	<0.5	<0.5
REP IMA05074	QC	0.08	0.008	<1	<0.5	<0.5
IMA05090	Pulp	<0.05	<0.005	<1	<0.5	<0.5
REP IMA05090	QC	0.05	<0.005	<1	<0.5	<0.5
Reference Materials						
STD OREAS25A-4A	Standard	0.13	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	0.09	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	0.09	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	0.10	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	0.13	<0.005	2	<0.5	<0.5
STD OREAS45H	Standard	0.08	<0.005	2	<0.5	<0.5
STD OREAS45E Expected		0.099		2.97	0.1	0.15
STD OREAS25A-4A Expected		0.09		2.4		0.35
STD OREAS45H Expected		0.1		2.02		
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