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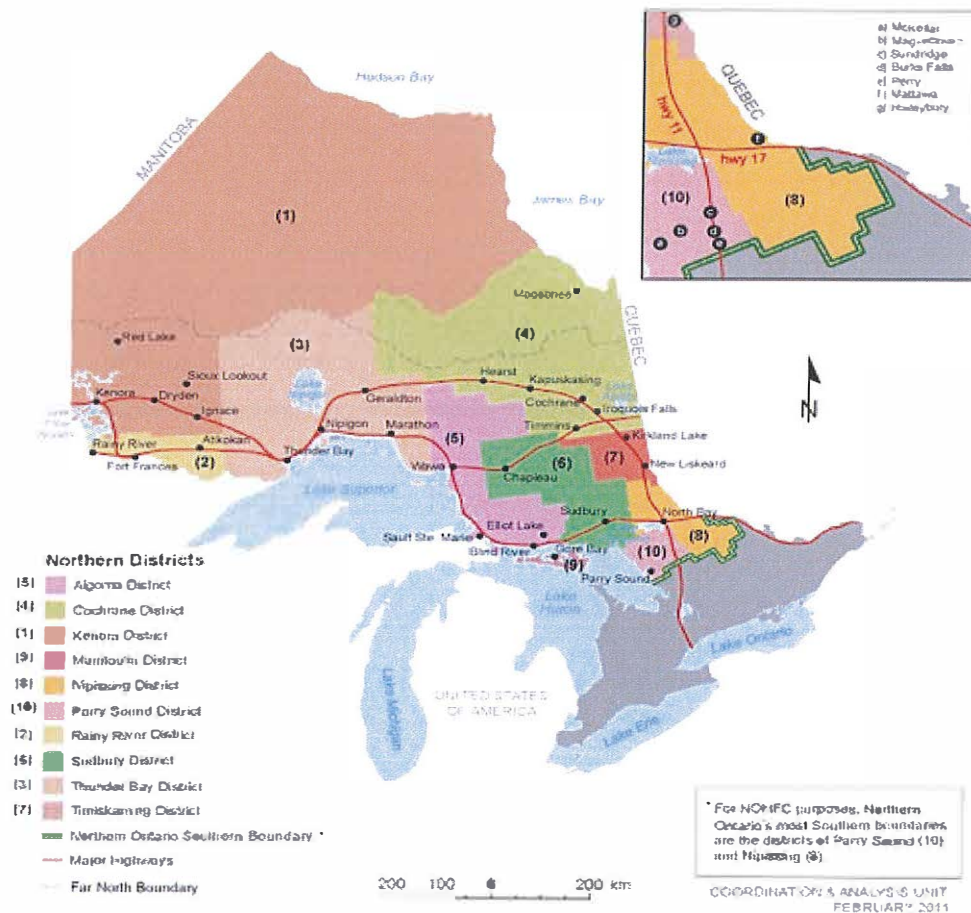
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Prospecting

Bennett Lake Area

Kenora Mining Division

Claim Number **535470**



Report completed by Brenda Hainey, July 5th, 2021

Work performed by Todd Thurier & Jeff Devine

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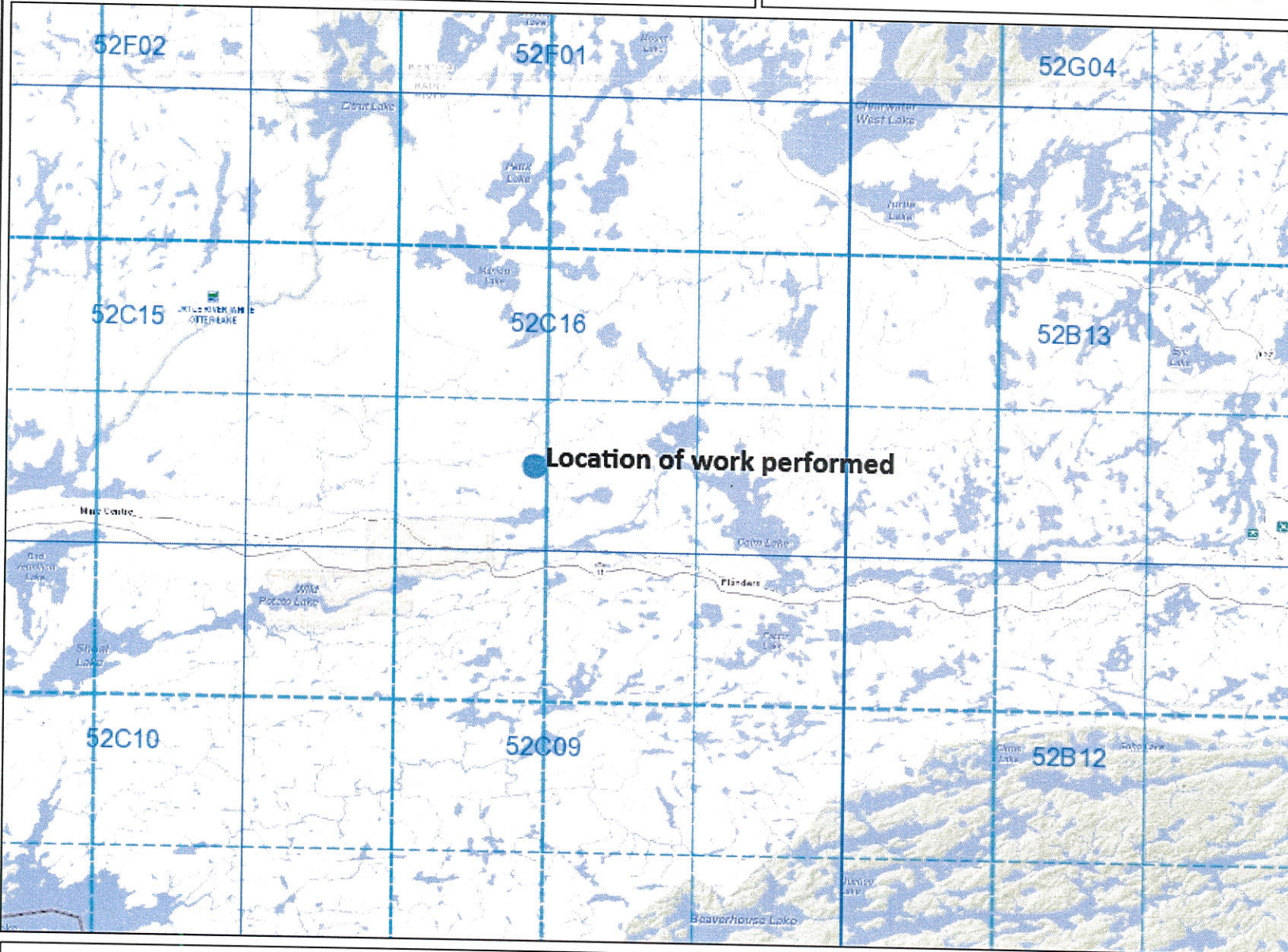
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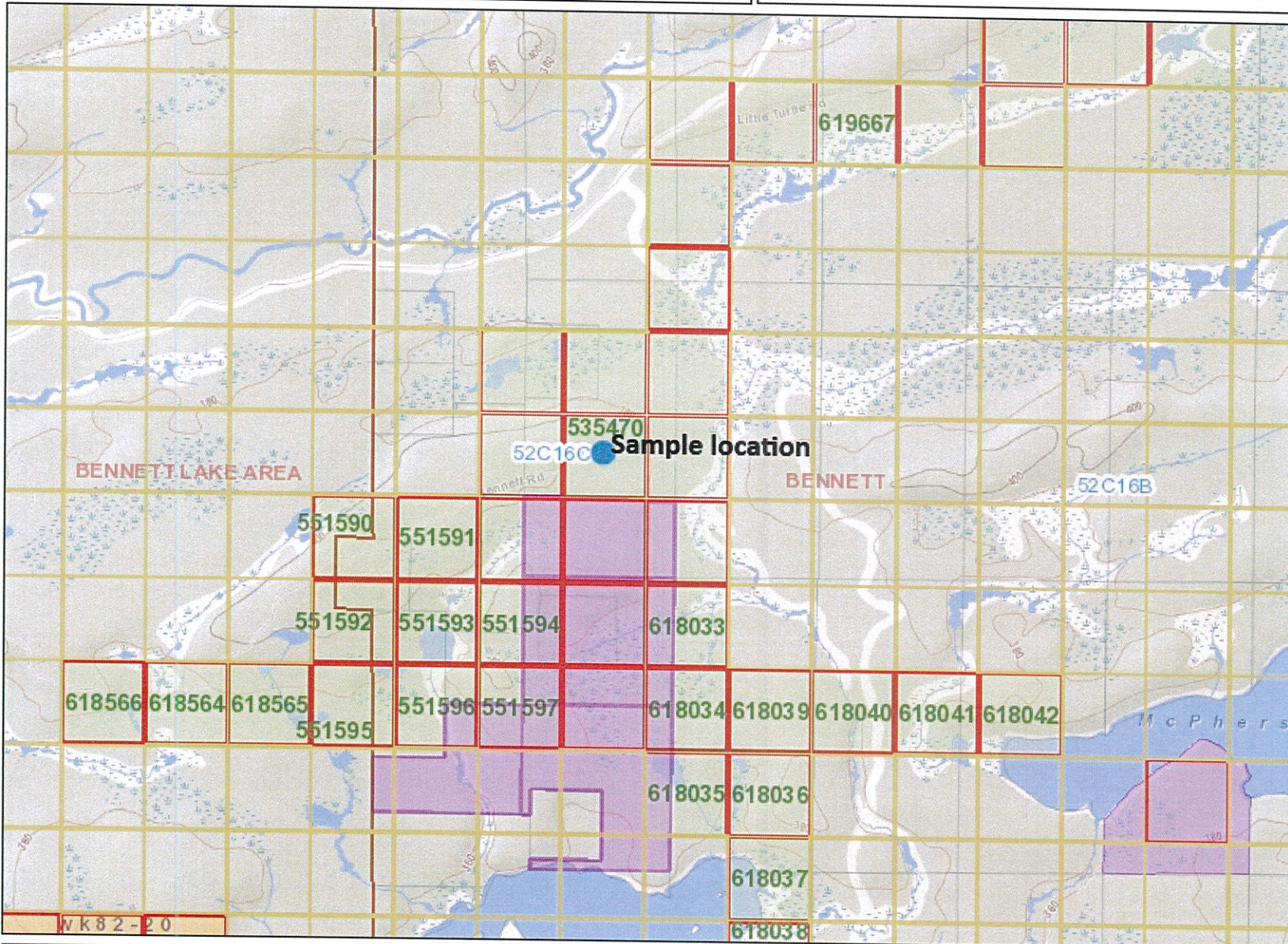
Those wishing to register mining claims should consult with the Provincial Mining Recorders' Office of the Ministry of Energy, Northern Development and Mines for additional information on the status of the lands shown hereon. This map is not intended for navigational, survey, or land title determination purposes as the information shown on this map is compiled from various sources. Completeness and accuracy are not guaranteed. Additional information may also be obtained through the local Land Titles or Registry Office, or the Ministry of Natural Resources and Forestry. The information shown is derived from digital data available in the Provincial Mining Recorders' Office at the time of downloading from the Ministry of Energy, Northern Development and Mines web site.



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Land Status Location and access

The **claim 535470** is located in the Bennet Lake Area, Kenora Mining Division. Provincial Grid cell # 52C16C199, crown land. The claim is held 100% in the name of Todd Thurier 393339. All work was done by Todd Thurier and Jeff Devine of Atikokan, On

The claim was accessed by travelling 55 km west of Atikokan on Hwy 11, 3km North on the Manion Lake road, 12km North East on the Little Turtle River Road and 5km east on the Bennet Lake Road. The Bennett road runs from west to east through the center of the claim.

General Geology

The general geology of the area is bedrock going from quartz to ultramafic rock. The bedrock outcrop had no overburden and the land surrounding the sampling area was Deciduous and Pine mixed forest. All samples were taken within a 20-meter radius on a bare rock outcrop, approximately 10 -15 meters off the Bennet Lake road on the north side.

Daily Log

July 24, 2020- Sample # 1 was collected at 15U 554409E, 5404836N. It was obtained by Todd Thurier and Jeff Devine, using a sledge hammer and chisel.

Aug 26, 2020- Sample #2 was collected at 15U 554398E, 5404823N. Sample was collected same as above.

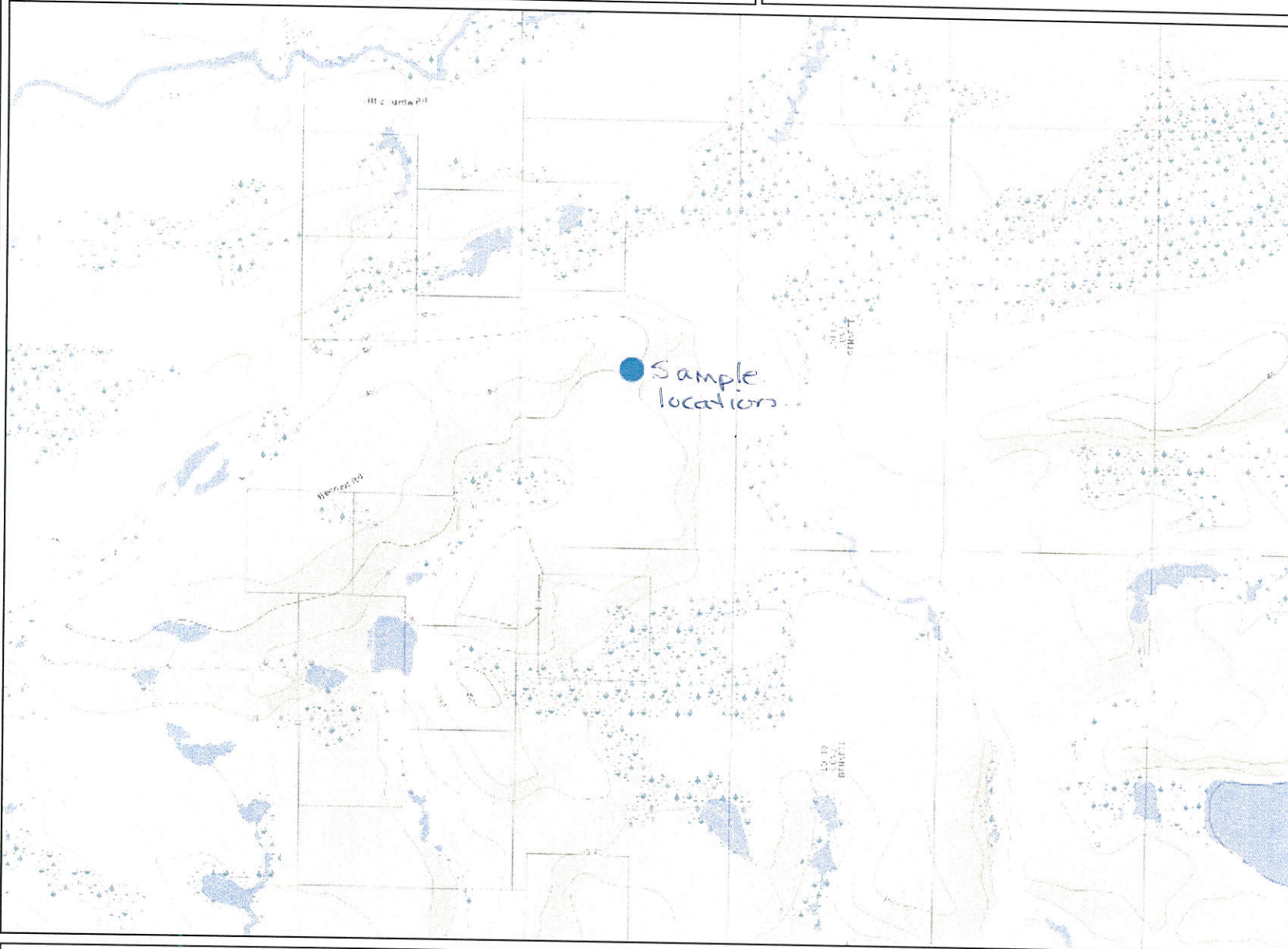
Sept 25, 2020 – Sample #3 was collected at 15U 554384E, 5404808N. Sample was collected same as above.

Oct 14th, 2020 – Sample #4 was collected at 15U 554370E, 5404818N. Sample collected as above.

Nov 07, 2020 – Sample #5 collected at 15U 5544380E, 5404828N. As above

Dec 01, 2020 – Sample # 6 collected at 15U 554389E, 5404835N. As above.

All 6 samples were sent in for analyses.



Legend

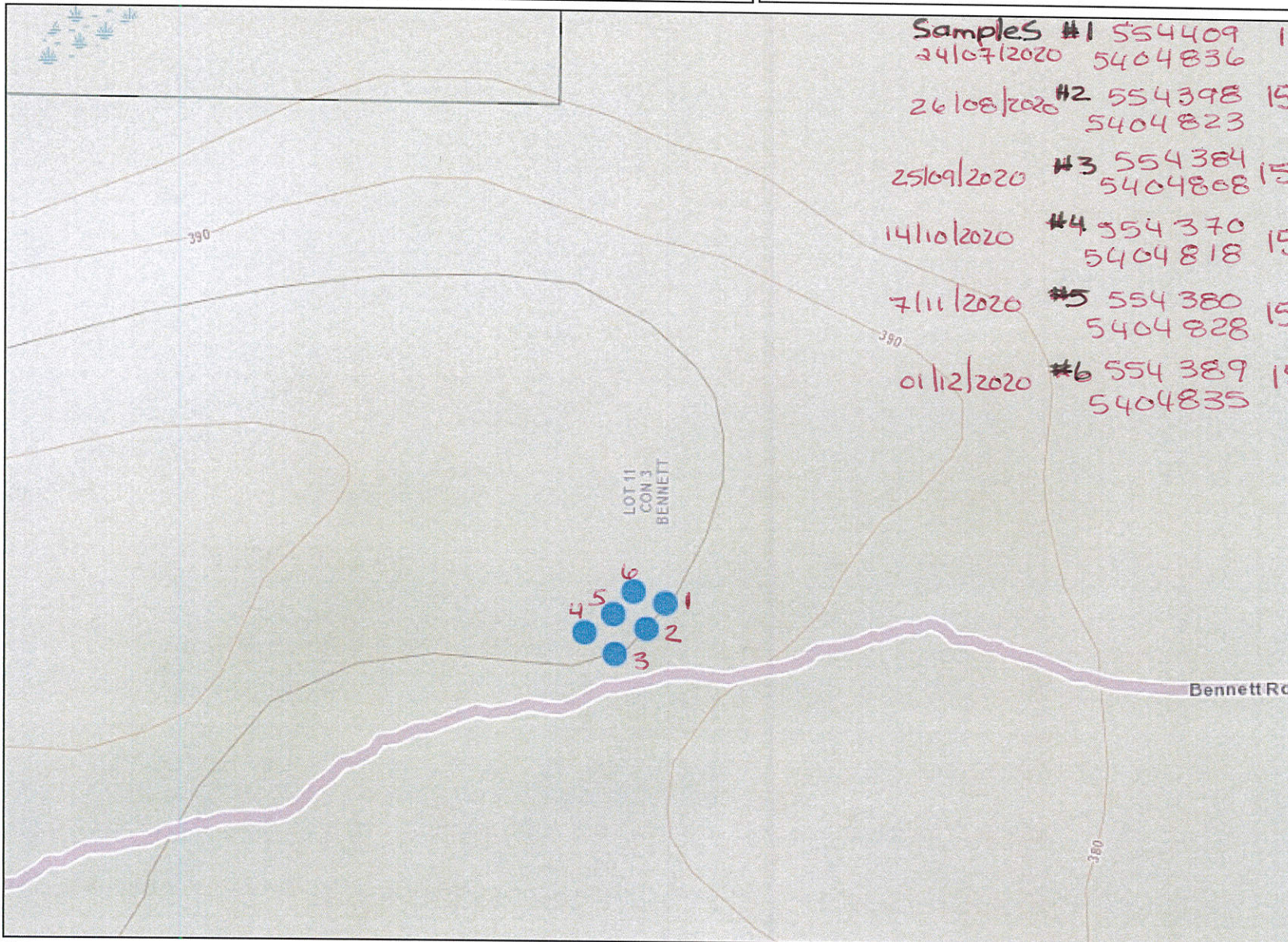
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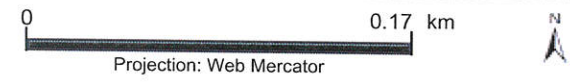


Sample #	Date	Claim #	Value
#1	24/07/2020	554409	154
		5404836	
#2	26/08/2020	554398	154
		5404823	
#3	25/09/2020	554384	154
		5404808	
#4	14/10/2020	554370	154
		5404818	
#5	7/11/2020	554380	154
		5404828	
#6	01/12/2020	554389	154
		5404835	

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Report No.: A20-12863
 Report Date: 14-Dec-20
 Date Submitted: 16-Oct-20
 Your Reference:

Todd Thurier
 136 Elm Crescent Box 1318
 Atikokan Ontario
 Canada

ATTN: Todd Thurier

CERTIFICATE OF ANALYSIS

1 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA Au (Au - Fire Assay AA)	2020-11-09 16:35:20

REPORT A20-12863

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

Notes:

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

CERTIFIED BY:

Emmanuel Esemé, Ph.D.
 Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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 E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: A20-12863
 Report Date: 14-Dec-20
 Date Submitted: 16-Oct-20
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Todd Thurier
 136 Elm Crescent Box 1318
 Atikokan Ontario
 Canada

ATTN: Todd Thurier

CERTIFICATE OF ANALYSIS

1 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
UT-6	QOP Total/QOP Ultratrace- 4acid Digest (Total Digestion ICPOES/ICPMS)	2020-11-24 15:29:28

REPORT A20-12863

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CERTIFIED BY:



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 Quality Control Coordinator

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 E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A20-12863

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Re	Hf	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
1021704	13	1.3	0.27	0.05	0.96	0.30	0.07	< 0.1	11	37	272	18.5	0.5	60	168	0.2	0.2	< 0.1	1.60	0.08	102	0.12	0.24

Results

Activation Laboratories Ltd.

Report: A20-12863

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Ta	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
1021704	5.8	16.9	2.7	3.8	9.1	1.8	23.1	19	0.9	2.86	< 0.1	< 1	0.1	0.5	13	2.9	6.9	0.8	3.6	0.8	0.6	< 0.1	0.4

Results

Activation Laboratories Ltd.

Report: A20-12863

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Rc	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
1021704	447	0.1	< 0.1	0.2	< 0.1	< 0.1	1.1	< 0.001	0.09	3.3	1	0.4	0.3	0.0340	0.016	10.3

QC

Activation Laboratories Ltd.

Report: A20-12863

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
SDC-1 Meas		37.0	1.57	1.04	9.19	2.76	0.98		34	48	866	4.79	1.0	10	35.0	3.6	2.5	1.3		4.11	17.5	1.56	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
SDC-1 Meas		33.5	1.53	1.01	8.20	2.47	0.97		26	51	869	4.98	0.7	40	34.8	3.3	2.6	1.1		3.85	17.6	1.34	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
SDC-1 Meas		34.0	1.52	1.01	7.92	2.54	0.99		30	45	841	4.73	0.8	90	33.5	3.6	2.9	1.2		4.04	17.7	1.42	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
SDC-1 Meas		34.0	1.57	1.02	8.53	2.66	1.02		35	51	894	4.96	0.9	90	36.1	3.4	2.7	1.2		4.03	17.7	1.42	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
SDC-1 Meas		36.7	1.68	1.02	8.37	2.72	1.10		32	49	833	4.75	0.9	60	35.2	3.6	3.1	1.2		3.85	17.4	1.48	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
OREAS 72a (4 Acid Digest) Meas										253		9.20		> 5000								153	
OREAS 72a (4 Acid Digest) Cert										228		9.63		6930.00								157	
OREAS 72a (4 Acid Digest) Meas										192		10.4		> 5000								161	
OREAS 72a (4 Acid Digest) Cert										228		9.63		6930.00								157	
OREAS 72a (4 Acid Digest) Meas										270		9.65		> 5000								152	
OREAS 72a (4 Acid Digest) Cert										228		9.63		6930.00								157	
OREAS 72a (4 Acid Digest) Meas										186		9.35		> 5000								155	
OREAS 72a (4 Acid Digest) Cert										228		9.63		6930.00								157	
OREAS 72a (4 Acid Digest) Meas										182		9.56		> 5000								157	
OREAS 72a (4 Acid Digest) Cert										228		9.63		6930.00								157	
OREAS 101b (4 Acid) Meas				1.23		2.35			77		913	10.2		8.8	14.1		4.9				43.9	7.54	
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7		8.2	15		5.2				45	8.1	
OREAS 101b (4 Acid) Meas				1.21		2.22			72		947	10.7		8.6	13.3		4.8				44.5	6.31	
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7		8.2	15		5.2				45	8.1	
OREAS 101b (4 Acid) Meas				1.15		1.75			69		882	10.3		8.5	13.8		4.7				44.4	6.73	
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7		8.2	15		5.2				45	8.1	
OREAS 101b (4 Acid) Meas				1.22		2.29			70		953	10.9		8.9	14.2		4.8				45.5	7.08	
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7		8.2	15		5.2				45	8.1	
OREAS 98 (4 Acid) Meas																			41.8		114		85.6
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
OREAS 98 (4 Acid) Meas																			41.5		113		86.6
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
OREAS 98 (4 Acid) Meas																			49.3		130		96.6
OREAS 98 (4 Acid) Cert																			45.1		121		97.2

QC

Activation Laboratories Ltd.

Report: A20-12863

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Se	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 98 (4 Acid) Meas																			44.6		130		97.1
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
OREAS 98 (4 Acid) Meas																			44.1		128		97.6
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
DNC-1a Meas		4.5	1.34				7.87		145	157		6.77			252						56.8	0.49	
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97			247						57	0.59	
DNC-1a Meas		4.7	1.48				7.88		149	152		6.84			259						56.4	0.53	
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97			247						57	0.59	
OREAS 13b (4-Acid) Meas										> 5000					2130			0.93			78.9		
OREAS 13b (4-Acid) Cert										8650.00					2247.000			0.86			75		
OREAS 13b (4-Acid) Meas										> 5000					2020			0.91			74.3		
OREAS 13b (4-Acid) Cert										8650.00					2247.000			0.86			75		
OREAS 13b (4-Acid) Meas										> 5000					2180			0.82			69.8		
OREAS 13b (4-Acid) Cert										8650.00					2247.000			0.86			75		
OREAS 904 (4 Acid) Meas		16.7	0.03	0.61	6.99	3.39	0.04		81	62	431	6.85	4.3		43.1		7.2	0.55	3.84	85.7		4.05	
OREAS 904 (4 Acid) Cert		16.7	0.0340	0.556	6.30	3.31	0.0460		76.0	54.0	410	6.68	5.00		40.1		7.86	0.551	3.79	83.0		4.05	
OREAS 904 (4 Acid) Meas		16.8	0.03	0.57	6.89	3.24	0.04		79	57	399	6.37	4.8		40.3		7.1	0.64	3.84	82.4		3.92	
OREAS 904 (4 Acid) Cert		16.7	0.0340	0.556	6.30	3.31	0.0460		76.0	54.0	410	6.68	5.00		40.1		7.86	0.551	3.79	83.0		4.05	
SBC-1 Meas	163							0.4	221	81					85.9	3.2	3.1	1.1		7.85	21.8	1.58	0.63
SBC-1 Cert	163							0.40	220.0	109					82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
SBC-1 Meas	159							0.3	216	95					83.1	3.5	2.9	1.2		8.17	21.6	1.67	0.63
SBC-1 Cert	163							0.40	220.0	109					82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
SBC-1 Meas	163							0.4	221	107					81.8	3.3	3.1	1.2		7.31	23.0	1.62	0.69
SBC-1 Cert	163							0.40	220.0	109					82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
OREAS 45d (4-Acid) Meas	22.8	0.10	0.22	8.39	0.38	0.19			129	527	489	14.6	2.7		233	1.5	0.7	0.5		3.91	29.6	0.63	0.31
OREAS 45d (4-Acid) Cert	21.5	0.101	0.245	8.150	0.412	0.185			235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 45d (4-Acid) Meas	22.5	0.08	0.22	9.18	0.40	0.18			109	509	473	14.1	2.1		238	1.3	1.0	0.5		3.84	28.8	0.63	0.31
OREAS 45d (4-Acid) Cert	21.5	0.101	0.245	8.150	0.412	0.185			235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 45d (4-Acid) Meas	22.8	0.09	0.23	8.66	0.42	0.17			183	576	491	14.6	3.6		238	1.4	0.9	0.5		4.05	30.3	0.60	0.32
OREAS 45d (4-Acid) Cert	21.5	0.101	0.245	8.150	0.412	0.185			235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 45d (4-Acid) Meas	22.1	0.09	0.18	7.67	0.40	0.19			175	576	474	14.1	3.6		215	1.3	0.8	0.5		3.48	28.5	0.55	0.33
OREAS 45d (4-Acid) Cert	21.5	0.101	0.245	8.150	0.412	0.185			235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 96 (4 Acid) Meas																			9.65		47.9		27.1

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Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Ba	Ho	Ag	Cs	Co	Eu	Pb
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 96 (4 Acid) Cert																			11.5		49.9		26.3
OREAS 96 (4 Acid) Meas																			11.0		51.8		28.7
OREAS 96 (4 Acid) Cert																			11.5		49.9		26.3
OREAS 923 (4 Acid) Meas		33.1	0.32	1.74	7.81	2.34	0.47	0.4	94	79	964	6.29	3.8		36.5	2.9	2.2	1.0	1.83	6.91	23.5	1.36	22.7
OREAS 923 (4 Acid) Cert		31.4	0.324	1.69	7.29	2.51	0.473	0.420	91.0	71.0	950	6.43	3.42		35.8	2.86	2.42	0.960	1.60	6.70	23.1	1.37	21.4
OREAS 923 (4 Acid) Meas		32.1	0.32	1.68	7.96	2.44	0.46	0.5	92	79	957	6.35	3.6		37.0	2.7	2.2	0.9	1.72	6.91	23.2	1.30	18.6
OREAS 923 (4 Acid) Cert		31.4	0.324	1.69	7.29	2.51	0.473	0.420	91.0	71.0	950	6.43	3.42		35.8	2.86	2.42	0.960	1.60	6.70	23.1	1.37	21.4
OREAS 621 (4 Acid) Meas		15.0	1.43	0.47	6.97	2.12	2.01	305	36	33	524	3.68	4.4		26.2		1.6		63.1	3.37	29.4		3.97
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41		26.2		1.69		69.0	3.28	29.3		3.93
OREAS 621 (4 Acid) Meas		13.8	1.35	0.41	6.50	1.69	1.89	294	33	33	529	3.90	4.3		28.1		1.7		62.1	3.09	28.8		3.78
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41		26.2		1.69		69.0	3.28	29.3		3.93
OREAS 621 (4 Acid) Meas		14.4	1.42	0.52	6.52	2.04	1.99	266	34	31	506	3.92	4.4		26.2		1.9		64.2	3.20	30.5		4.08
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41		26.2		1.69		69.0	3.28	29.3		3.93
OREAS 522 (4 Acid) Meas		16.7	0.60	1.12	3.96	2.48	3.68		162	41	3870	23.5	3.0		68.0	2.0	0.8	0.7	1.26	0.59	> 500	1.92	9.01
OREAS 522 (4 Acid) Cert		16.2	0.633	1.12	3.95	2.83	3.65		164	29.6	3970	24.6	2.96		70.0	1.97	0.700	0.660	1.31	0.640	550	1.88	8.72
OREAS 522 (4 Acid) Meas		15.8	0.53	1.03	3.78	2.51	3.40		162	41	3760	23.2	3.0		62.3	1.9	0.9	0.7	1.24	0.61	488	1.80	9.00
OREAS 522 (4 Acid) Cert		16.2	0.633	1.12	3.95	2.83	3.65		164	29.6	3970	24.6	2.96		70.0	1.97	0.700	0.660	1.31	0.640	550	1.88	8.72
OREAS 522 (4 Acid) Meas		15.8	0.62	1.15	3.98	2.85	3.60		163	41	4180	24.6	2.9		70.3	2.0	0.8	0.7	1.32	0.61	> 500	1.75	8.71
OREAS 522 (4 Acid) Cert		16.2	0.633	1.12	3.95	2.83	3.65		164	29.6	3970	24.6	2.96		70.0	1.97	0.700	0.660	1.31	0.640	550	1.88	8.72
OREAS 522 (4 Acid) Meas		16.7	0.66	1.18	4.08	3.12	4.07		180	45	4390	26.5	3.1		77.1	2.1	0.8	0.7	1.41	0.72	> 500	1.74	8.97
OREAS 522 (4 Acid) Cert		16.2	0.633	1.12	3.95	2.83	3.65		164	29.6	3970	24.6	2.96		70.0	1.97	0.700	0.660	1.31	0.640	550	1.88	8.72
OREAS 238 (Fire Assay) Meas	3100																						
OREAS 238 (Fire Assay) Cert	3030																						
Oras E1336 (Fire Assay) Meas	500																						
Oras E1336 (Fire Assay) Cert	510																						
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	15	3	< 0.01	< 0.1	80	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	2	10	7	< 0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	4	2	< 0.01	< 0.1	30	< 0.5	< 0.1	0.2	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	4	2	< 0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	7	7	< 0.01	< 0.1	50	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	5	5	< 0.01	< 0.1	50	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	4	6	< 0.01	< 0.1	20	< 0.5	< 0.1	0.5	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02

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Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	5	6	< 0.01	< 0.1	70	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	3	5	5	< 0.01	< 0.1	110	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	3	6	3	< 0.01	< 0.1	90	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	4	4	< 0.01	< 0.1	60	< 0.5	< 0.1	0.3	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	6	1	< 0.01	< 0.1	20	< 0.5	< 0.1	0.2	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank																							
Method Blank																							
Method Blank		< 5																					

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Analyte Symbol	Sc	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
SDC-1 Meas		100	21.3	0.9	125		182	34	< 0.1			< 1	< 0.1		651	40.0	90.1		40.7	8.9	6.9	1.1	6.3
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		108	20.7	0.2	99.9		179	22	< 0.1			< 1	< 0.1		611	40.1	82.4		38.2	7.3	6.5	0.9	5.5
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		105	20.3	0.2	106		178	29	< 0.1			< 1	< 0.1		627	40.7	87.2		39.7	7.3	6.9	1.0	6.3
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		116	22.4	0.8	112		181	37	0.1			< 1	< 0.1		632	41.8	87.9		40.8	7.4	6.8	0.9	5.9
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		104	21.1	0.4	118		183	29	< 0.1			< 1	< 0.1		680	41.3	93.6		41.6	7.9	7.1	1.0	6.1
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
OREAS 72a (4 Acid Digest) Meas				7.7																			
OREAS 72a (4 Acid Digest) Cert				14.7																			
OREAS 72a (4 Acid Digest) Meas				3.1																			
OREAS 72a (4 Acid Digest) Cert				14.7																			
OREAS 72a (4 Acid Digest) Meas				7.6																			
OREAS 72a (4 Acid Digest) Cert				14.7																			
OREAS 72a (4 Acid Digest) Meas				3.9																			
OREAS 72a (4 Acid Digest) Cert				14.7																			
OREAS 72a (4 Acid Digest) Meas				5.0																			
OREAS 72a (4 Acid Digest) Cert				14.7																			
OREAS 101b (4 Acid) Meas						124				20.6					724	1330	122	348	47.0	36.1	4.8	26.4	
OREAS 101b (4 Acid) Cert						133				20.1					754	1325	127	388	48	40	5.4	27	
OREAS 101b (4 Acid) Meas						122				19.4					749	1250	109	363	50.9	38.3	4.0	24.5	
OREAS 101b (4 Acid) Cert						133				20.1					754	1325	127	388	48	40	5.4	27	
OREAS 101b (4 Acid) Meas						127				18.0					721	1290	119	377	42.7	38.3	4.2	25.4	
OREAS 101b (4 Acid) Cert						133				20.1					754	1325	127	388	48	40	5.4	27	
OREAS 101b (4 Acid) Meas						133				20.1					769	1390	126	396	44.3	37.3	4.1	26.1	
OREAS 101b (4 Acid) Cert						133				20.1					754	1325	127	388	48	40	5.4	27	
OREAS 98 (4 Acid) Meas	178	1260										181	10.5										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
OREAS 98 (4 Acid) Meas	175	1260										179	5.8										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
OREAS 98 (4 Acid) Meas	166	1440										> 200	12.6										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										

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Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 98 (4 Acid) Cert																							
OREAS 98 (4 Acid) Meas	164	1420										193	5.3										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
OREAS 98 (4 Acid) Meas	160	1420										199	5.6										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
DNC-1a Meas		65.2	12.6		1.2	13.7	140	35	1.5				0.7		104	3.0			4.4				
DNC-1a Cert		70	15		4.50	18.0	144	38.0	3				0.96		118	3.6			5.20				
DNC-1a Meas		63.2	12.9		2.9	15.5	145	37	1.4				0.7		106	3.5			4.9				
DNC-1a Cert		70	15		4.50	18.0	144	38.0	3				0.96		118	3.6			5.20				
OREAS 13b (4-Acid) Meas		141		54.7						9.87													
OREAS 13b (4-Acid) Cert		133		57						9.0													
OREAS 13b (4-Acid) Meas		135		55.9						9.93													
OREAS 13b (4-Acid) Cert		133		57						9.0													
OREAS 13b (4-Acid) Meas		127		46.4						8.67													
OREAS 13b (4-Acid) Cert		133		57						9.0													
OREAS 904 (4 ACID) Meas	3.0	24.7	17.0	102	143	33.7	28.5	153		2.18	0.2	3	1.1		221	44.5	90.2						1.0
OREAS 904 (4 ACID) Cert	3.30	26.3	16.7	98.0	130	31.5	27.2	171		2.12	0.220	2.83	1.48		194	43.2	86.0						1.00
OREAS 904 (4 ACID) Meas	2.9	33.1	16.4	101	139	33.0	28.2	172		2.36	0.2	3	1.4		204	42.2	85.0						0.9
OREAS 904 (4 ACID) Cert	3.30	26.3	16.7	98.0	130	31.5	27.2	171		2.12	0.220	2.83	1.48		194	43.2	86.0						1.00
SBC-1 Meas		194	25.0	25.4	129	29.4	185	120	11.6	2.25		3	0.9		674	46.5	96.3	10.8	44.4	9.1	7.4	1.0	6.1
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
SBC-1 Meas		191	24.1	25.7	133	29.1	178	120	13.7	2.06		3	1.0		720	48.8	102	11.6	46.7	10.4	7.7	1.0	6.3
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
SBC-1 Meas		189	25.1	26.9	115	27.6	173	116	15.1	2.23		3	1.0		673	40.0	95.9	11.1	42.8	8.7	7.3	1.0	6.2
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
OREAS 45d (4-Acid) Meas		41.8	21.2	8.3	44.0	12.2	35.3	97	0.9	0.42	< 0.1	< 1	< 0.1		195	17.2	38.4	4.0	14.7	2.9	2.3	0.4	2.4
OREAS 45d (4-Acid) Cert		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 45d (4-Acid) Meas		43.8	22.7	8.2	44.6	12.2	32.4	77	0.3	0.34	< 0.1	< 1	< 0.1		183	17.3	39.1	4.1	14.9	2.9	2.4	0.4	2.3
OREAS 45d (4-Acid) Cert		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 45d (4-Acid) Meas		43.1	22.8	12.5	43.4	11.7	33.1	135	5.0	0.97	0.1	1	0.2		189	16.5	37.4	4.0	14.5	3.2	2.4	0.4	2.3
OREAS 45d (4-Acid) Cert		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 45d (4-Acid) Meas		43.7	19.4	11.3	35.1	10.2	29.5	132	4.5	0.91	< 0.1	1	0.2		181	14.8	34.5	3.6	14.0	2.9	2.5	0.4	2.3
OREAS 45d (4-Acid) Cert		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 96 (4 Acid) Meas	34.2	425										57	2.9										

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Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	To	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	
OREAS 96 (4 Acid) Cert	40.7	457										65.6	5.09											
OREAS 96 (4 Acid) Meas	40.1	456										62	3.8											
OREAS 96 (4 Acid) Cert	40.7	457										65.6	5.09											
OREAS 923 (4 Acid) Meas	7.0	370	19.5	8.6	166	27.7	43.5	134	14.9	1.10	0.5	14	1.3		367	42.2	84.2	10.0	37.0	6.3	5.5	0.9	5.1	
OREAS 923 (4 Acid) Cert	6.54	345	20.3	7.61	166	26.4	43.0	116	14.1	0.930	0.520	13.3	1.29		434	42.2	83.0	9.58	35.4	6.64	5.73	0.850	5.05	
OREAS 923 (4 Acid) Meas	7.3	352	19.7	9.0	162	26.8	43.7	123	14.2	1.10	0.5	13	1.3		384	40.8	82.0	9.7	35.2	6.6	5.4	0.8	4.7	
OREAS 923 (4 Acid) Cert	6.54	345	20.3	7.61	166	26.4	43.0	116	14.1	0.930	0.520	13.3	1.29		434	42.2	83.0	9.58	35.4	6.64	5.73	0.850	5.05	
OREAS 621 (4 Acid) Meas	6.3	> 10000	26.5	75.6	86.1	11.9	60.6	168	9.1	14.2	1.8	5	18.6			16.1	44.0						0.5	
OREAS 621 (4 Acid) Cert	5.64	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6						0.460	
OREAS 621 (4 Acid) Meas	5.1	> 10000	24.4	70.9	67.6	11.0	66.7	175	8.7	13.1	1.5	5	25.6			18.4	43.5						0.4	
OREAS 621 (4 Acid) Cert	5.64	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6						0.460	
OREAS 621 (4 Acid) Meas	5.0	> 10000	24.1	70.6	77.8	11.3	64.1	175	9.1	13.9	1.8	5	18.8			16.9	45.9						0.4	
OREAS 621 (4 Acid) Cert	5.64	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6						0.460	
OREAS 522 (4 Acid) Meas	2.1	31.2	15.9	378	81.5	18.8	113	113	3.0	199	0.2	9	2.8	0.2		76.1	109	9.0	27.7	4.0	4.2	0.6	3.5	
OREAS 522 (4 Acid) Cert	2.74	30.2	16.0	490	82.0	18.5	199	112	5.66	206	0.230	9.32	7.93	1.14		171	148	9.76	27.2	4.17	3.87	0.590	3.24	
OREAS 522 (4 Acid) Meas	2.7	32.5	15.8	421	80.7	18.6	88.3	113	4.7	207	0.2	9	4.5	0.5		51.7	83.8	8.0	26.2	3.4	3.7	0.5	3.3	
OREAS 522 (4 Acid) Cert	2.74	30.2	16.0	490	82.0	18.5	199	112	5.66	206	0.230	9.32	7.93	1.14		171	148	9.76	27.2	4.17	3.87	0.590	3.24	
OREAS 522 (4 Acid) Meas	2.3	31.8	18.2	404	82.7	18.3	98.1	130	3.5	229	0.2	9	3.0	0.2		69.3	97.4	8.1	26.6	4.2	4.2	0.5	3.4	
OREAS 522 (4 Acid) Cert	2.74	30.2	16.0	490	82.0	18.5	199	112	5.66	206	0.230	9.32	7.93	1.14		171	148	9.76	27.2	4.17	3.87	0.590	3.24	
OREAS 522 (4 Acid) Meas	2.5	40.6	18.4	500	87.1	19.1	85.1	144	5.9	257	0.2	9	5.0	0.5		53.1	81.7	7.9	26.4	3.8	4.2	0.5	3.4	
OREAS 522 (4 Acid) Cert	2.74	30.2	16.0	490	82.0	18.5	199	112	5.66	206	0.230	9.32	7.93	1.14		171	148	9.76	27.2	4.17	3.87	0.590	3.24	
OREAS 238 (Fire Assay) Meas																								
OREAS 238 (Fire Assay) Cert																								
Oreas E1336 (Fire Assay) Meas																								
Oreas E1336 (Fire Assay) Cert																								
Method Blank	< 0.1	0.8	0.1	0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.19	< 0.1	< 1	< 0.1	0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Method Blank	< 0.1	0.5	0.1	1.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Method Blank	0.3	< 0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.08	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Method Blank	< 0.1	0.6	0.1	0.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Method Blank	0.2	0.4	0.1	0.4	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Method Blank	0.2	0.3	0.1	0.4	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Method Blank	0.6	0.4	< 0.1	0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	

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Activation Laboratories Ltd.

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Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank	< 0.1	7.5	0.1	0.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	0.8	0.2	0.4	< 0.2	< 0.1	0.2	< 1	< 0.1	0.09	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.3	1.3	0.2	1.3	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.07	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.5	1.2	< 0.1	0.3	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.06	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.6	< 0.2	< 0.1	0.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.14	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Ir	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
SDC-1 Meas	38.5		0.5	3.2		< 0.1	< 0.1		0.67	25.2	15	12.0	2.8	0.0763	0.056	
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas	28.6		0.5	3.2		< 0.1	< 0.1		0.60	23.6	15	11.9	2.6	0.117	0.057	
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas	29.2		0.5	3.3		< 0.1	< 0.1		0.63	25.8		12.2	2.6			
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00		12.00	3.10			
SDC-1 Meas	32.5		0.5	3.3		< 0.1	< 0.1		0.60	23.6		12.2	2.7			
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00		12.00	3.10			
SDC-1 Meas	31.4		0.5	3.3		< 0.1	< 0.1		0.66	23.6		12.1	2.8			
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00		12.00	3.10			
Oreas 72a (4 Acid Digest) Meas	334															1.72
Oreas 72a (4 Acid Digest) Cert	316															1.74
Oreas 72a (4 Acid Digest) Meas	321															1.73
Oreas 72a (4 Acid Digest) Cert	316															1.74
Oreas 72a (4 Acid Digest) Meas	309															
Oreas 72a (4 Acid Digest) Cert	316															
Oreas 72a (4 Acid Digest) Meas	318															
Oreas 72a (4 Acid Digest) Cert	316															
Oreas 72a (4 Acid Digest) Meas	310															
Oreas 72a (4 Acid Digest) Cert	316															
OREAS 101b (4 Acid) Meas	414		2.1	13.2	1.9					22.7		35.5	348	0.341	0.114	
OREAS 101b (4 Acid) Cert	412		2.08	13.9	1.96					23		36.4	387	0.35		
OREAS 101b (4 Acid) Meas	399		1.8	12.7	1.7					21.2		36.9	384	0.333	0.107	
OREAS 101b (4 Acid) Cert	412		2.08	13.9	1.96					23		36.4	387	0.35		
OREAS 101b (4 Acid) Meas	422		1.9	12.6	1.7					22.4		37.2	390			
OREAS 101b (4 Acid) Cert	412		2.08	13.9	1.96					23		36.4	387			
OREAS 101b (4 Acid) Meas	424		2.0	12.6	1.7					21.8		37.7	386			
OREAS 101b (4 Acid) Cert	412		2.08	13.9	1.96					23		36.4	387			
OREAS 98 (4 Acid) Meas	> 10000									301						16.4
OREAS 98 (4 Acid) Cert	14800									345						15.5
OREAS 98 (4 Acid) Meas	> 10000									305						
OREAS 98 (4 Acid) Cert	14800									345						
OREAS 98 (4 Acid) Meas	> 10000									332						
OREAS 98 (4 Acid) Cert	14800									345						

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Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Acid) Cert	0.0															
OREAS 98 (4 Acid) Meas	> 10000									328						
OREAS 98 (4 Acid) Cert	14800									345						
OREAS 98 (4 Acid) Meas	> 10000									328						
OREAS 98 (4 Acid) Cert	14800									345						
DNC-1a Meas	96.6			1.8						5.8	31			0.274		
DNC-1a Cert	100			2.0						6.3	31			0.29		
DNC-1a Meas	91.5			1.9						5.9						
DNC-1a Cert	100			2.0						6.3						
OREAS 13b (4-Acid) Meas	2310															1.19
OREAS 13b (4-Acid) Cert	2327.0															1.2
OREAS 13b (4-Acid) Meas	2070															
OREAS 13b (4-Acid) Cert	2327.0															
OREAS 13b (4-Acid) Meas	2160															
OREAS 13b (4-Acid) Cert	2327.0															
OREAS 904 (4 ACID) Meas	5970	0.1		3.3	0.5	0.2	1.2		0.57	11.1	11	15.2	8.9		0.087	0.06
OREAS 904 (4 ACID) Cert	6120	0.180		3.14	0.470	0.540	2.12		0.520	10.6	11.2	14.3	8.43		0.0980	0.0630
OREAS 904 (4 ACID) Meas	6010	< 0.1		3.0	0.5	0.9	2.8		0.54	10.8		15.1	8.8			
OREAS 904 (4 ACID) Cert	6120	0.180		3.14	0.470	0.540	2.12		0.520	10.6		14.3	8.43			
SBC-1 Meas	32.7		0.5	3.3	0.4	0.6	1.3		0.87	34.0	20	14.4	5.2	0.487		
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
SBC-1 Meas	29.1		0.5	3.3	0.5	1.0	1.6		0.84	33.8		15.7	5.5			
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0		15.8	5.76			
SBC-1 Meas	29.6		0.5	3.1	0.4	1.1	1.5		0.92	38.5		12.2	5.1			
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0		15.8	5.76			
OREAS 45d (4-Acid) Meas	380			1.5	0.2	< 0.1	< 0.1		0.25	21.9	54	15.1	2.8	0.244	0.036	0.04
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 45d (4-Acid) Meas	386			1.4	0.2	< 0.1	< 0.1		0.25	21.6		15.2	2.8			
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8		14.5	2.63			
OREAS 45d (4-Acid) Meas	384			1.5	0.2	0.2	0.2		0.26	22.1		14.8	2.9			
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8		14.5	2.63			
OREAS 45d (4-Acid) Meas	367			1.4	0.2	0.2	0.2		0.26	21.0		14.3	2.7			
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8		14.5	2.63			
OREAS 96 (4 Acid) Meas	> 10000									96.7						

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Analyte Symbol	Cu	Ge	Gm	Yb	Lu	La	W	Re	Li	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
OREAS 96 (4 Acid) Cert	39300									101						
OREAS 96 (4 Acid) Meas	> 10000									99.7						
OREAS 96 (4 Acid) Cert	39300									101						
OREAS 923 (4 Acid) Meas	4300		0.4	2.6	0.4	1.2	4.9		0.92	84.2	14	16.7	3.2	0.422	0.067	0.73
OREAS 923 (4 Acid) Cert	4230		0.410	2.57	0.390	1.11	4.85		0.860	83.0	13.1	16.5	3.06	0.405	0.0630	0.691
OREAS 923 (4 Acid) Meas	4280		0.4	2.5	0.4	1.2	5.1		0.94	83.2		16.6	3.2			
OREAS 923 (4 Acid) Cert	4230		0.410	2.57	0.390	1.11	4.85		0.860	83.0		16.5	3.06			
OREAS 621 (4 Acid) Meas	3620			1.0	0.2		1.7		2.30	> 5000	7	4.2	3.0	0.183	0.036	4.56
OREAS 621 (4 Acid) Cert	3630			0.990	0.140		2.35		1.96	13600	6.24	7.48	2.83	0.149	0.0359	4.48
OREAS 621 (4 Acid) Meas	3590			1.0	0.2		2.0		1.96	> 5000		5.5	2.7			
OREAS 621 (4 Acid) Cert	3630			0.990	0.140		2.35		1.96	13600		7.48	2.83			
OREAS 621 (4 Acid) Meas	3630			1.0	0.1		1.9		2.11	> 5000		4.5	2.9			
OREAS 621 (4 Acid) Cert	3630			0.990	0.140		2.35		1.96	13600		7.48	2.83			
OREAS 522 (4 Acid) Meas	8770		0.3	2.0	0.3	0.1	69.3	0.100	0.29	6.4	11	2.7	43.3	0.346	0.087	2.39
OREAS 522 (4 Acid) Cert	9160		0.280	1.97	0.310	0.440	135	0.0980	0.290	12.5	10.9	7.53	42.2	0.344	0.0890	2.50
OREAS 522 (4 Acid) Meas	8340		0.3	1.9	0.3	0.3	111	0.101	0.29	7.0		2.1	43.3			
OREAS 522 (4 Acid) Cert	9160		0.280	1.97	0.310	0.440	135	0.0980	0.290	12.5		7.53	42.2			
OREAS 522 (4 Acid) Meas	9090		0.3	2.0	0.3	0.1	84.3	0.086	0.29	6.5		2.1	43.8			
OREAS 522 (4 Acid) Cert	9160		0.280	1.97	0.310	0.440	135	0.0980	0.290	12.5		7.53	42.2			
OREAS 522 (4 Acid) Meas	9720		0.3	2.1	0.3	0.3	124	0.088	0.29	7.5		1.9	45.3			
OREAS 522 (4 Acid) Cert	9160		0.280	1.97	0.310	0.440	135	0.0980	0.290	12.5		7.53	42.2			
OREAS 238 (Fire Assay) Meas																
OREAS 238 (Fire Assay) Cert																
Or eas E1336 (Fire Assay) Meas																
Or eas E1336 (Fire Assay) Cert																
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	0.6	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	0.8	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01

QC

Activation Laboratories Ltd.

Report: A20-12863

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Method Blank	14.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	0.7		< 0.1	< 0.1			
Method Blank	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.001	< 0.05	1.2	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	1.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	1.9	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank											< 1			0.0005	< 0.001	< 0.01
Method Blank											< 1			0.0005	< 0.001	< 0.01
Method Blank														0.0005		



Report No.: A20-12861
Report Date: 14-Dec-20
Date Submitted: 16-Oct-20
Your Reference:

Todd Thurier
136 Elm Crescent Box 1318
Atikokan Ontario
Canada

ATTN: Todd Thurier

CERTIFICATE OF ANALYSIS

1 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
UT-6	QOP Total/QOP Ultratrace- 4acid Digest (Total Digestion ICPOES//CPMS)	2020-11-24 15:29:28

REPORT A20-12861

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

Notes:

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

CERTIFIED BY:

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: A20-12861
 Report Date: 14-Dec-20
 Date Submitted: 16-Oct-20
 Your Reference:

Todd Thurier
 136 Elm Crescent Box 1318
 Atikokan Ontario
 Canada

ATTN: Todd Thurier

CERTIFICATE OF ANALYSIS

1 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-11-09 16:35:20

REPORT A20-12861

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

Notes:

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

CERTIFIED BY:



Emmanuel Esemé, Ph.D.
 Quality Control Coordinator

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Results

Activation Laboratories Ltd.

Report: A20-12861

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Ill	Hg	Ni	Er	Se	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
1021702	16	1.2	0.27	0.04	0.81	0.24	0.07	< 0.1	10	45	264	18.2	0.4	20	187	0.2	0.2	< 0.1	1.75	0.07	105	0.11	0.22

Results

Activation Laboratories Ltd.

Report: A20-12861

Analyte Symbol	Sc	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
1021702	6.1	15.3	2.3	2.3	7.2	1.8	18.2	18	0.8	3.28	< 0.1	< 1	< 0.1	0.6	15	2.7	6.5	0.8	3.5	0.5	0.5	< 0.1	0.3

Results

Activation Laboratories Ltd.

Report: A20-12861

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
1021702	554	0.1	< 0.1	0.2	< 0.1	< 0.1	0.9	< 0.001	0.07	3.0	2	0.4	0.3	0.0286	0.014	10.9

QC

Activation Laboratories Ltd.

Report: A20-12861

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Pb
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
SDC-1 Meas		37.0	1.57	1.04	9.19	2.76	0.98		34	48	866	4.79	1.0	10	35.0	3.6	2.5	1.3		4.11	17.5	1.56	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
SDC-1 Meas		33.5	1.53	1.01	8.20	2.47	0.97		26	51	869	4.98	0.7	40	34.8	3.3	2.6	1.1		3.85	17.6	1.34	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
SDC-1 Meas		34.0	1.52	1.01	7.92	2.54	0.99		30	45	841	4.73	0.8	90	33.5	3.6	2.9	1.2		4.04	17.7	1.42	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
SDC-1 Meas		34.0	1.57	1.02	8.53	2.66	1.02		35	51	894	4.96	0.9	90	36.1	3.4	2.7	1.2		4.03	17.7	1.42	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
SDC-1 Meas		36.7	1.68	1.02	8.37	2.72	1.10		32	49	833	4.75	0.9	60	35.2	3.6	3.1	1.2		3.85	17.4	1.48	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
Oreas 72a (4 Acid Digest) Meas										253		9.20			> 5000							153	
Oreas 72a (4 Acid Digest) Cert										228		9.63			6930.00							157	
Oreas 72a (4 Acid Digest) Meas										192		10.4			> 5000							161	
Oreas 72a (4 Acid Digest) Cert										228		9.63			6930.00							157	
Oreas 72a (4 Acid Digest) Meas										270		9.65			> 5000							152	
Oreas 72a (4 Acid Digest) Cert										228		9.63			6930.00							157	
Oreas 72a (4 Acid Digest) Meas										186		9.35			> 5000							155	
Oreas 72a (4 Acid Digest) Cert										228		9.63			6930.00							157	
Oreas 72a (4 Acid Digest) Meas										182		9.56			> 5000							157	
Oreas 72a (4 Acid Digest) Cert										228		9.63			6930.00							157	
OREAS 101b (4 Acid) Meas				1.23		2.35			77		913	10.2			8.8	14.1		4.9			43.9	7.54	
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7			8.2	15		5.2			45	8.1	
OREAS 101b (4 Acid) Meas				1.21		2.22			72		947	10.7			8.6	13.3		4.8			44.5	6.31	
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7			8.2	15		5.2			45	8.1	
OREAS 101b (4 Acid) Meas				1.15		1.75			69		882	10.3			8.5	13.8		4.7			44.4	6.73	
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7			8.2	15		5.2			45	8.1	
OREAS 101b (4 Acid) Meas				1.22		2.29			70		953	10.9			8.9	14.2		4.8			45.5	7.08	
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7			8.2	15		5.2			45	8.1	
OREAS 98 (4 Acid) Meas																			41.8		114		85.6
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
OREAS 98 (4 Acid) Meas																			41.5		113		86.6
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
OREAS 98 (4 Acid) Meas																			49.3		130		96.6
OREAS 98 (4 Acid) Cert																			45.1		121		97.2

QC

Activation Laboratories Ltd.

Report: A20-12861

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Pb
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 98 (4 Acid) Meas																			44.6		130		97.1
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
OREAS 98 (4 Acid) Meas																			44.1		128		97.6
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
DNC-1a Meas		4.5	1.34				7.87		145	157		6.77				252						56.8	0.49
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97				247						57	0.59
DNC-1a Meas		4.7	1.48				7.88		149	152		6.84				259						56.4	0.53
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97				247						57	0.59
OREAS 13b (4-Acid) Meas											> 5000				2130				0.93		78.9		
OREAS 13b (4-Acid) Cert											8650.00				2247.000				0.86		75		
OREAS 13b (4-Acid) Meas											> 5000				2020				0.91		74.3		
OREAS 13b (4-Acid) Cert											8650.00				2247.000				0.86		75		
OREAS 13b (4-Acid) Meas											> 5000				2180				0.82		69.8		
OREAS 13b (4-Acid) Cert											8650.00				2247.000				0.86		75		
OREAS 904 (4 ACID) Meas		16.7	0.03	0.61	6.99	3.39	0.04		81	62	431	6.85	4.3		43.1		7.2		0.55	3.84	85.7		4.05
OREAS 904 (4 ACID) Cert		16.7	0.0340	0.556	6.30	3.31	0.0460		76.0	54.0	410	6.68	5.00		40.1		7.86		0.551	3.79	83.0		4.05
OREAS 904 (4 ACID) Meas		16.8	0.03	0.57	6.89	3.24	0.04		79	57	399	6.37	4.8		40.3		7.1		0.64	3.84	82.4		3.92
OREAS 904 (4 ACID) Cert		16.7	0.0340	0.556	6.30	3.31	0.0460		76.0	54.0	410	6.68	5.00		40.1		7.86		0.551	3.79	83.0		4.05
SBC-1 Meas	163							0.4	221	109	81				85.9	3.2	3.1	1.1		7.85	21.8	1.58	0.63
SBC-1 Cert	163							0.40	220.0	109	81				82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
SBC-1 Meas	159							0.3	216	95					83.1	3.5	2.9	1.2		8.17	21.6	1.67	0.63
SBC-1 Cert	163							0.40	220.0	109					82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
SBC-1 Meas	163							0.4	221	107					81.8	3.3	3.1	1.2		7.31	23.0	1.62	0.69
SBC-1 Cert	163							0.40	220.0	109					82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
OREAS 45d (4-Acid) Meas	22.8	0.10	0.22	8.39	0.38	0.19			129	527	489	14.6	2.7		233	1.5	0.7	0.5		3.91	29.6	0.63	0.31
OREAS 45d (4-Acid) Cert	21.5	0.101	0.245	8.150	0.412	0.185			235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 45d (4-Acid) Meas	22.5	0.08	0.22	9.18	0.40	0.18			109	509	473	14.1	2.1		238	1.3	1.0	0.5		3.84	28.8	0.63	0.31
OREAS 45d (4-Acid) Cert	21.5	0.101	0.245	8.150	0.412	0.185			235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 45d (4-Acid) Meas	22.8	0.09	0.23	8.66	0.42	0.17			183	576	491	14.6	3.6		238	1.4	0.9	0.5		4.05	30.3	0.60	0.32
OREAS 45d (4-Acid) Cert	21.5	0.101	0.245	8.150	0.412	0.185			235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 45d (4-Acid) Meas	22.1	0.09	0.18	7.67	0.40	0.19			175	576	474	14.1	3.6		215	1.3	0.8	0.5		3.48	28.5	0.55	0.33
OREAS 45d (4-Acid) Cert	21.5	0.101	0.245	8.150	0.412	0.185			235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 96 (4 Acid) Meas																			9.65		47.9		27.1

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Activation Laboratories Ltd.

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Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 96 (4 Acid) Cert																			11.5		49.9		26.3
OREAS 96 (4 Acid) Meas																			11.0		51.8		28.7
OREAS 96 (4 Acid) Cert																			11.5		49.9		26.3
OREAS 923 (4 Acid) Meas		33.1	0.32	1.74	7.81	2.34	0.47	0.4	94	79	964	6.29	3.8		36.5	2.9	2.2	1.0	1.83	6.91	23.5	1.36	22.7
OREAS 923 (4 Acid) Cert		31.4	0.324	1.69	7.29	2.51	0.473	0.420	91.0	71.0	950	6.43	3.42		35.8	2.86	2.42	0.960	1.60	6.70	23.1	1.37	21.4
OREAS 923 (4 Acid) Meas		32.1	0.32	1.68	7.96	2.44	0.46	0.5	92	79	957	6.35	3.6		37.0	2.7	2.2	0.9	1.72	6.91	23.2	1.30	18.6
OREAS 923 (4 Acid) Cert		31.4	0.324	1.69	7.29	2.51	0.473	0.420	91.0	71.0	950	6.43	3.42		35.8	2.86	2.42	0.960	1.60	6.70	23.1	1.37	21.4
OREAS 621 (4 Acid) Meas		15.0	1.43	0.47	6.97	2.12	2.01	305	36	33	524	3.68	4.4		26.2		1.6		63.1	3.37	29.4		3.97
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41		26.2		1.69		69.0	3.28	29.3		3.93
OREAS 621 (4 Acid) Meas		13.8	1.35	0.41	6.50	1.69	1.89	294	33	33	529	3.90	4.3		28.1		1.7		62.1	3.09	28.8		3.78
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41		26.2		1.69		69.0	3.28	29.3		3.93
OREAS 621 (4 Acid) Meas		14.1	1.42	0.52	6.52	2.04	1.99	266	34	31	506	3.92	4.4		26.2		1.9		64.2	3.20	30.5		4.08
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41		26.2		1.69		69.0	3.28	29.3		3.93
OREAS 522 (4 Acid) Meas		16.7	0.60	1.12	3.96	2.48	3.68		162	41	3870	23.5	3.0		68.0	2.0	0.8	0.7	1.26	0.59	> 500	1.92	9.01
OREAS 522 (4 Acid) Cert		16.2	0.633	1.12	3.95	2.83	3.65		164	29.6	3970	24.6	2.96		70.0	1.97	0.700	0.660	1.31	0.640	550	1.88	8.72
OREAS 522 (4 Acid) Meas		15.8	0.53	1.03	3.78	2.51	3.40		162	41	3760	23.2	3.0		62.3	1.9	0.9	0.7	1.24	0.61	488	1.80	9.00
OREAS 522 (4 Acid) Cert		16.2	0.633	1.12	3.95	2.83	3.65		164	29.6	3970	24.6	2.96		70.0	1.97	0.700	0.660	1.31	0.640	550	1.88	8.72
OREAS 522 (4 Acid) Meas		15.8	0.62	1.15	3.98	2.85	3.60		163	41	4180	24.6	2.9		70.3	2.0	0.8	0.7	1.32	0.61	> 500	1.75	8.71
OREAS 522 (4 Acid) Cert		16.2	0.633	1.12	3.95	2.83	3.65		164	29.6	3970	24.6	2.96		70.0	1.97	0.700	0.660	1.31	0.640	550	1.88	8.72
OREAS 522 (4 Acid) Meas		16.7	0.66	1.18	4.08	3.12	4.07		180	45	4390	26.5	3.1		77.1	2.1	0.8	0.7	1.41	0.72	> 500	1.74	8.97
OREAS 522 (4 Acid) Cert		16.2	0.633	1.12	3.95	2.83	3.65		164	29.6	3970	24.6	2.96		70.0	1.97	0.700	0.660	1.31	0.640	550	1.88	8.72
OREAS 238 (Fire Assay) Meas	3100																						
OREAS 238 (Fire Assay) Cert	3030																						
Oreas E1336 (Fire Assay) Meas	500																						
Oreas E1336 (Fire Assay) Cert	510																						
1021702 Orig	14																						
1021702 Dup	18																						
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	15	3	< 0.01	< 0.1	80	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	2	10	7	< 0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	4	2	< 0.01	< 0.1	30	< 0.5	< 0.1	0.2	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	4	2	< 0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	7	7	< 0.01	< 0.1	50	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02

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Activation Laboratories Ltd.

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Analyte Symbol	Lu	Li	Na	Mg	Al	K	Ca	Cl	V	Cr	Mn	Fe	Hf	Hg	Ni	Fr	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	5	5	< 0.01	< 0.1	50	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	4	6	< 0.01	< 0.1	20	< 0.5	< 0.1	0.5	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	5	6	< 0.01	< 0.1	70	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	3	5	5	< 0.01	< 0.1	110	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	3	6	3	< 0.01	< 0.1	90	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	4	4	< 0.01	< 0.1	60	< 0.5	< 0.1	0.3	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	6	1	< 0.01	< 0.1	20	< 0.5	< 0.1	0.2	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank																							
Method Blank																							
Method Blank	< 5																						

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Analyte Symbol	Se	Zn	Ga	As	Tl	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
SDC-1 Meas		100	21.3	0.9	125		182	34	< 0.1			< 1	< 0.1		651	40.0	90.1		40.7	8.9	6.9	1.1	6.3
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		108	20.7	0.2	99.9		179	22	< 0.1			< 1	< 0.1		611	40.1	82.4		38.2	7.3	6.5	0.9	5.5
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		105	20.3	0.2	106		178	29	< 0.1			< 1	< 0.1		627	40.7	87.2		39.7	7.3	6.9	1.0	6.3
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		116	22.4	0.8	112		181	37	0.1			< 1	< 0.1		632	41.8	87.9		40.8	7.4	6.8	0.9	5.9
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		104	21.1	0.4	118		183	29	< 0.1			< 1	< 0.1		680	41.3	93.6		41.6	7.9	7.1	1.0	6.1
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
OREAS 72a (4 Acid Digest) Meas				7.7																			
OREAS 72a (4 Acid Digest) Cert				14.7																			
OREAS 72a (4 Acid Digest) Meas				3.1																			
OREAS 72a (4 Acid Digest) Cert				14.7																			
OREAS 72a (4 Acid Digest) Meas				7.6																			
OREAS 72a (4 Acid Digest) Cert				14.7																			
OREAS 72a (4 Acid Digest) Meas				3.9																			
OREAS 72a (4 Acid Digest) Cert				14.7																			
OREAS 72a (4 Acid Digest) Meas				5.0																			
OREAS 72a (4 Acid Digest) Cert				14.7																			
OREAS 101b (4 Acid) Meas						124				20.6					724	1330	122	348	47.0	36.1	4.8	26.4	
OREAS 101b (4 Acid) Cert						133				20.1					754	1325	127	388	48	40	5.4	27	
OREAS 101b (4 Acid) Meas						122				19.4					749	1250	109	363	50.9	38.3	4.0	24.5	
OREAS 101b (4 Acid) Cert						133				20.1					754	1325	127	388	48	40	5.4	27	
OREAS 101b (4 Acid) Meas						127				18.0					721	1290	119	377	42.7	38.3	4.2	25.4	
OREAS 101b (4 Acid) Cert						133				20.1					754	1325	127	388	48	40	5.4	27	
OREAS 101b (4 Acid) Meas						133				20.1					769	1390	126	396	44.3	37.3	4.1	26.1	
OREAS 101b (4 Acid) Cert						133				20.1					754	1325	127	388	48	40	5.4	27	
OREAS 98 (4 Acid) Meas	178	1260										181	10.5										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
OREAS 98 (4 Acid) Meas	175	1260										179	5.8										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
OREAS 98 (4 Acid) Meas	166	1440										> 200	12.6										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										

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Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code (Acid) Cert	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 98 (4 Acid) Meas	164	1420										193	5.3										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
OREAS 98 (4 Acid) Meas	160	1420										199	5.6										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
DNC-1a Meas		65.2	12.6		1.2	13.7	140	35	1.5				0.7		104	3.0			4.4				
DNC-1a Cert		70	15		4.50	18.0	144	38.0	3				0.96		118	3.6			5.20				
DNC-1a Meas		63.2	12.9		2.9	15.5	145	37	1.4				0.7		106	3.5			4.9				
DNC-1a Cert		70	15		4.50	18.0	144	38.0	3				0.96		118	3.6			5.20				
OREAS 13b (4-Acid) Meas		141		54.7						9.87													
OREAS 13b (4-Acid) Cert		133		57						9.0													
OREAS 13b (4-Acid) Meas		135		55.9						9.93													
OREAS 13b (4-Acid) Cert		133		57						9.0													
OREAS 13b (4-Acid) Meas		127		46.4						8.67													
OREAS 13b (4-Acid) Cert		133		57						9.0													
OREAS 904 (4 ACID) Meas	3.0	24.7	17.0	102	143	33.7	28.5	153		2.18	0.2	3	1.1		221	44.5	90.2						1.0
OREAS 904 (4 ACID) Cert	3.30	26.3	16.7	98.0	130	31.5	27.2	171		2.12	0.220	2.83	1.48		194	43.2	86.0						1.00
OREAS 904 (4 ACID) Meas	2.9	33.1	16.4	101	139	33.0	28.2	172		2.36	0.2	3	1.4		204	42.2	85.0						0.9
OREAS 904 (4 ACID) Cert	3.30	26.3	16.7	98.0	130	31.5	27.2	171		2.12	0.220	2.83	1.48		194	43.2	86.0						1.00
SBC-1 Meas		194	25.0	25.4	129	29.4	185	120	11.6	2.25		3	0.9		674	46.5	96.3	10.8	44.4	9.1	7.4	1.0	6.1
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
SBC-1 Meas		191	24.1	25.7	133	29.1	178	120	13.7	2.06		3	1.0		720	48.8	102	11.6	46.7	10.4	7.7	1.0	6.3
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
SBC-1 Meas		189	25.1	26.9	115	27.6	173	116	15.1	2.23		3	1.0		673	40.0	95.9	11.1	42.8	8.7	7.3	1.0	6.2
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
OREAS 45d (4-Acid) Meas		41.8	21.2	8.3	44.0	12.2	35.3	97	0.9	0.42	< 0.1	< 1	< 0.1		195	17.2	38.4	4.0	14.7	2.9	2.3	0.4	2.4
OREAS 45d (4-Acid) Cert		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 45d (4-Acid) Meas		43.8	22.7	8.2	44.6	12.2	32.4	77	0.3	0.34	< 0.1	< 1	< 0.1		183	17.3	39.1	4.1	14.9	2.9	2.4	0.4	2.3
OREAS 45d (4-Acid) Cert		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 45d (4-Acid) Meas		43.1	22.8	12.5	43.4	11.7	33.1	135	5.0	0.97	0.1	1	0.2		189	16.5	37.4	4.0	14.5	3.2	2.4	0.4	2.3
OREAS 45d (4-Acid) Cert		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 45d (4-Acid) Meas		43.7	19.4	11.3	35.1	10.2	29.5	132	4.5	0.91	< 0.1	1	0.2		181	14.8	34.5	3.6	14.0	2.9	2.5	0.4	2.3
OREAS 45d (4-Acid) Cert		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 96 (4 Acid) Meas	34.2	425										57	2.9										

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Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 96 (4 Acid) Cert	40.7	457										65.6	5.09										
OREAS 96 (4 Acid) Meas	40.1	456										62	3.8										
OREAS 96 (4 Acid) Cert	40.7	457										65.6	5.09										
OREAS 923 (4 Acid) Meas	7.0	370	19.5	8.6	166	27.7	43.5	134	14.9	1.10	0.5	14	1.3		367	42.2	84.2	10.0	37.0	6.3	5.5	0.9	5.1
OREAS 923 (4 Acid) Cert	6.54	345	20.3	7.61	166	26.4	43.0	116	14.1	0.930	0.520	13.3	1.29		434	42.2	83.0	9.58	35.4	6.64	5.73	0.850	5.05
OREAS 923 (4 Acid) Meas	7.3	352	19.7	9.0	162	26.8	43.7	123	14.2	1.10	0.5	13	1.3		384	40.8	82.0	9.7	35.2	6.6	5.4	0.8	4.7
OREAS 923 (4 Acid) Cert	6.54	345	20.3	7.61	166	26.4	43.0	116	14.1	0.930	0.520	13.3	1.29		434	42.2	83.0	9.58	35.4	6.64	5.73	0.850	5.05
OREAS 621 (4 Acid) Meas	6.3	>10000	26.5	75.6	86.1	11.9	60.6	168	9.1	14.2	1.8	5	18.6			16.1	44.0						0.5
OREAS 621 (4 Acid) Cert	5.64	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6						0.460
OREAS 621 (4 Acid) Meas	5.1	>10000	24.4	70.9	67.6	11.0	66.7	175	8.7	13.1	1.5	5	25.6			18.4	43.5						0.4
OREAS 621 (4 Acid) Cert	5.64	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6						0.460
OREAS 621 (4 Acid) Meas	5.0	>10000	24.1	70.6	77.8	11.3	64.1	175	9.1	13.9	1.8	5	18.8			16.9	45.9						0.4
OREAS 621 (4 Acid) Cert	5.64	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6						0.460
OREAS 522 (4 Acid) Meas	2.1	31.2	15.9	378	81.5	18.8	113	113	3.0	199	0.2	9	2.8	0.2		76.1	109	9.0	27.7	4.0	4.2	0.6	3.5
OREAS 522 (4 Acid) Cert	2.74	30.2	16.0	490	82.0	18.5	199	112	5.66	206	0.230	9.32	7.93	1.14		171	148	9.76	27.2	4.17	3.87	0.590	3.24
OREAS 522 (4 Acid) Meas	2.7	32.5	15.8	421	80.7	18.6	88.3	113	4.7	207	0.2	9	4.5	0.5		51.7	83.8	8.0	26.2	3.4	3.7	0.5	3.3
OREAS 522 (4 Acid) Cert	2.74	30.2	16.0	490	82.0	18.5	199	112	5.66	206	0.230	9.32	7.93	1.14		171	148	9.76	27.2	4.17	3.87	0.590	3.24
OREAS 522 (4 Acid) Meas	2.3	31.8	18.2	414	82.7	18.3	98.1	130	3.5	229	0.2	9	3.0	0.2		69.3	97.4	8.1	26.6	4.2	4.2	0.5	3.4
OREAS 522 (4 Acid) Cert	2.74	30.2	16.0	490	82.0	18.5	199	112	5.66	206	0.230	9.32	7.93	1.14		171	148	9.76	27.2	4.17	3.87	0.590	3.24
OREAS 522 (4 Acid) Meas	2.5	40.6	18.4	500	87.1	19.1	85.1	144	5.9	257	0.2	9	5.0	0.5		53.1	81.7	7.9	26.4	3.8	4.2	0.5	3.4
OREAS 522 (4 Acid) Cert	2.74	30.2	16.0	490	82.0	18.5	199	112	5.66	206	0.230	9.32	7.93	1.14		171	148	9.76	27.2	4.17	3.87	0.590	3.24
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
1021702 Orig																							
1021702 Dup																							
Method Blank	< 0.1	0.8	0.1	0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.19	< 0.1	< 1	< 0.1	0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	0.5	0.1	1.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.3	< 0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.08	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	0.6	0.1	0.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.2	0.4	0.1	0.4	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

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Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank	0.2	0.3	0.1	0.4	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.6	0.4	< 0.1	0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	7.5	0.1	0.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	0.8	0.2	0.4	< 0.2	< 0.1	0.2	< 1	< 0.1	0.09	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.3	1.3	0.2	1.3	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.07	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.5	1.2	< 0.1	0.3	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.06	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.6	< 0.2	< 0.1	0.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.14	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank																							
Method Blank																							
Method Blank																							

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Analyte Symbol	Cu	Ga	In	Vb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
SDC-1 Meas	38.5		0.5	3.2		< 0.1	< 0.1		0.67	25.2	15	12.0	2.8	0.0763	0.056	
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas	28.6		0.5	3.2		< 0.1	< 0.1		0.60	23.6	15	11.9	2.6	0.117	0.057	
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas	29.2		0.5	3.3		< 0.1	< 0.1		0.63	25.8		12.2	2.6			
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00		12.00	3.10			
SDC-1 Meas	32.5		0.5	3.3		< 0.1	< 0.1		0.60	23.6		12.2	2.7			
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00		12.00	3.10			
SDC-1 Meas	31.4		0.5	3.3		< 0.1	< 0.1		0.66	23.6		12.1	2.8			
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00		12.00	3.10			
OREAS 72a (4 Acid Digest) Meas	334															1.72
OREAS 72a (4 Acid Digest) Cert	316															1.74
OREAS 72a (4 Acid Digest) Meas	321															1.73
OREAS 72a (4 Acid Digest) Cert	316															1.74
OREAS 72a (4 Acid Digest) Meas	309															
OREAS 72a (4 Acid Digest) Cert	316															
OREAS 72a (4 Acid Digest) Meas	318															
OREAS 72a (4 Acid Digest) Cert	316															
OREAS 72a (4 Acid Digest) Meas	310															
OREAS 72a (4 Acid Digest) Cert	316															
OREAS 101b (4 Acid) Meas	414		2.1	13.2	1.9					22.7		35.5	348	0.341	0.114	
OREAS 101b (4 Acid) Cert	412		2.08	13.9	1.96					23		36.4	387	0.35		
OREAS 101b (4 Acid) Meas	399		1.8	12.7	1.7					21.2		36.9	384	0.333	0.107	
OREAS 101b (4 Acid) Cert	412		2.08	13.9	1.96					23		36.4	387	0.35		
OREAS 101b (4 Acid) Meas	422		1.9	12.6	1.7					22.4		37.2	390			
OREAS 101b (4 Acid) Cert	412		2.08	13.9	1.96					23		36.4	387			
OREAS 101b (4 Acid) Meas	424		2.0	12.6	1.7					21.8		37.7	396			
OREAS 101b (4 Acid) Cert	412		2.08	13.9	1.96					23		36.4	387			
OREAS 98 (4 Acid) Meas	> 10000									301						16.4
OREAS 98 (4 Acid) Cert	14800									345						15.5
OREAS 98 (4 Acid) Meas	> 10000									305						
OREAS 98 (4 Acid) Cert	14800									345						
OREAS 98 (4 Acid) Meas	> 10000									332						
OREAS 98 (4 Acid) Cert	14800									345						

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Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	T-D-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Acid) Cert	0.0															
OREAS 98 (4 Acid) Meas	> 10000									328						
OREAS 98 (4 Acid) Cert	14800									345						
OREAS 98 (4 Acid) Meas	> 10000									328						
OREAS 98 (4 Acid) Cert	14800									345						
DNC-1a Meas	96.6			1.8						5.8	31			0.274		
DNC-1a Cert	100			2.0						6.3	31			0.29		
DNC-1a Meas	91.5			1.9						5.9						
DNC-1a Cert	100			2.0						6.3						
OREAS 13b (4-Acid) Meas	2310															1.19
OREAS 13b (4-Acid) Cert	2327.000															1.2
OREAS 13b (4-Acid) Meas	2070															
OREAS 13b (4-Acid) Cert	2327.000															
OREAS 13b (4-Acid) Meas	2160															
OREAS 13b (4-Acid) Cert	2327.000															
OREAS 904 (4 ACID) Meas	5970	0.1		3.3	0.5	0.2	1.2		0.57	11.1	11	15.2	8.9		0.087	0.06
OREAS 904 (4 ACID) Cert	6120	0.180		3.14	0.470	0.540	2.12		0.520	10.6	11.2	14.3	8.43		0.0980	0.0630
OREAS 904 (4 ACID) Meas	6010	< 0.1		3.0	0.5	0.9	2.8		0.54	10.8		15.1	8.8			
OREAS 904 (4 ACID) Cert	6120	0.180		3.14	0.470	0.540	2.12		0.520	10.6		14.3	8.43			
SBC-1 Meas	32.7		0.5	3.3	0.4	0.6	1.3		0.87	34.0	20	14.4	5.2	0.487		
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
SBC-1 Meas	29.1		0.5	3.3	0.5	1.0	1.6		0.84	33.8		15.7	5.5			
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0		15.8	5.76			
SBC-1 Meas	29.6		0.5	3.1	0.4	1.1	1.5		0.92	38.5		12.2	5.1			
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0		15.8	5.76			
OREAS 45d (4-Acid) Meas	380			1.5	0.2	< 0.1	< 0.1		0.25	21.9	54	15.1	2.8	0.244	0.036	0.04
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 45d (4-Acid) Meas	386			1.4	0.2	< 0.1	< 0.1		0.25	21.6		15.2	2.8			
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8		14.5	2.63			
OREAS 45d (4-Acid) Meas	384			1.5	0.2	0.2	0.2		0.26	22.1		14.8	2.9			
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8		14.5	2.63			
OREAS 45d (4-Acid) Meas	367			1.4	0.2	0.2	0.2		0.26	21.0		14.3	2.7			
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8		14.5	2.63			
OREAS 96 (4 Acid) Meas	> 10000									96.7						

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Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
OREAS 96 (4 Acid) Cert	39300									101						
OREAS 96 (4 Acid) Meas	> 10000									99.7						
OREAS 96 (4 Acid) Cert	39300									101						
OREAS 923 (4 Acid) Meas	4300		0.4	2.6	0.4	1.2	4.9		0.92	84.2	14	16.7	3.2	0.422	0.067	0.73
OREAS 923 (4 Acid) Cert	4230		0.410	2.57	0.390	1.11	4.85		0.860	83.0	13.1	16.5	3.06	0.405	0.0630	0.691
OREAS 923 (4 Acid) Meas	4280		0.4	2.5	0.4	1.2	5.1		0.94	83.2		16.6	3.2			
OREAS 923 (4 Acid) Cert	4230		0.410	2.57	0.390	1.11	4.85		0.860	83.0		16.5	3.06			
OREAS 621 (4 Acid) Meas	3620			1.0	0.2		1.7		2.30	> 5000	7	4.2	3.0	0.183	0.036	4.56
OREAS 621 (4 Acid) Cert	3630			0.990	0.140		2.35		1.96	13600	6.24	7.48	2.83	0.149	0.0359	4.48
OREAS 621 (4 Acid) Meas	3590			1.0	0.2		2.0		1.96	> 5000		5.5	2.7			
OREAS 621 (4 Acid) Cert	3630			0.990	0.140		2.35		1.96	13600		7.48	2.83			
OREAS 621 (4 Acid) Meas	3630			1.0	0.1		1.9		2.11	> 5000		4.5	2.9			
OREAS 621 (4 Acid) Cert	3630			0.990	0.140		2.35		1.96	13600		7.48	2.83			
OREAS 522 (4 Acid) Meas	8770		0.3	2.0	0.3	0.1	69.3	0.100	0.29	6.4	11	2.7	43.3	0.346	0.087	2.39
OREAS 522 (4 Acid) Cert	9160		0.280	1.97	0.310	0.440	135	0.0980	0.290	12.5	10.9	7.53	42.2	0.344	0.0890	2.50
OREAS 522 (4 Acid) Meas	8340		0.3	1.9	0.3	0.3	111	0.101	0.29	7.0		2.1	43.3			
OREAS 522 (4 Acid) Cert	9160		0.280	1.97	0.310	0.440	135	0.0980	0.290	12.5		7.53	42.2			
OREAS 522 (4 Acid) Meas	9090		0.3	2.0	0.3	0.1	84.3	0.086	0.29	6.5		2.1	43.8			
OREAS 522 (4 Acid) Cert	9160		0.280	1.97	0.310	0.440	135	0.0980	0.290	12.5		7.53	42.2			
OREAS 522 (4 Acid) Meas	9720		0.3	2.1	0.3	0.3	124	0.088	0.29	7.5		1.9	45.3			
OREAS 522 (4 Acid) Cert	9160		0.280	1.97	0.310	0.440	135	0.0980	0.290	12.5		7.53	42.2			
OREAS 238 (Fire Assay) Meas																
OREAS 238 (Fire Assay) Cert																
Oreas E1336 (Fire Assay) Meas																
Oreas E1336 (Fire Assay) Cert																
1021702 Orig																
1021702 Dup																
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	0.6	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	0.8	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			

QC

Activation Laboratories Ltd.

Report: A20-12861

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	14.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	0.7		< 0.1	< 0.1			
Method Blank	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.001	< 0.05	1.2	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	1.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	1.9	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank											< 1			< 0.0005	< 0.001	< 0.01
Method Blank											< 1			< 0.0005	< 0.001	< 0.01
Method Blank														< 0.0005	< 0.001	< 0.01



Report No.: A20-12865
Report Date: 14-Dec-20
Date Submitted: 16-Oct-20
Your Reference:

Todd Thurier
136 Elm Crescent Box 1318
Atikokan Ontario
Canada

ATTN: Todd Thurier

CERTIFICATE OF ANALYSIS

1 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA Au (Au - Fire Assay AA)	2020-11-09 16:35:20

REPORT A20-12865

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

Notes:

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

CERTIFIED BY:

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: A20-12865
Report Date: 14-Dec-20
Date Submitted: 16-Oct-20
Your Reference:

Todd Thurier
136 Elm Crescent Box 1318
Atikokan Ontario
Canada

ATTN: Todd Thurier

CERTIFICATE OF ANALYSIS

1 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
UT-6	QOP Total/QOP Ultratrace- 4acid Digest (Total Digestion ICPOES/CPMS)	2020-11-24 14:40:10

REPORT **A20-12865**

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Notes:

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

CERTIFIED BY:



Emmanuel Esemé, Ph.D.
Quality Control Coordinator

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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A20-12865

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Ba	Ho	La	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
1021705	< 5	21.8	2.66	0.64	8.04	2.05	1.33	< 0.1	44	43	1260	3.12	2.9	< 10	33.2	1.0	1.5	0.3	0.12	1.63	21.2	0.57	0.08

Results

Activation Laboratories Ltd.

Report: A20-12865

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
1021705	0.4	85.4	15.1	0.9	83.6	8.7	261	100	5.9	1.47	< 0.1	< 1	< 0.1	< 0.1	537	11.4	28.5	2.5	10.1	2.0	1.8	0.3	1.7

Results

Activation Laboratories Ltd.

Report: A20-12865

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Ti	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
1021705	88.8	< 0.1	0.1	1.1	0.2	0.6	0.4	< 0.001	0.61	14.1	8	10.5	1.6	0.168	0.030	0.27

QC

Activation Laboratories Ltd.

Report: A20-12865

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Pb
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
SDC-1 Meas		37.0	1.57	1.04	9.19	2.76	0.98		34	48	866	4.79	1.0	10	35.0	3.6	2.5	1.3		4.11	17.5	1.56	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
SDC-1 Meas		33.5	1.53	1.01	8.20	2.47	0.97		26	51	869	4.98	0.7	40	34.8	3.3	2.6	1.1		3.85	17.6	1.34	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
SDC-1 Meas		34.0	1.52	1.01	7.92	2.54	0.99		30	45	841	4.73	0.8	90	33.5	3.6	2.9	1.2		4.04	17.7	1.42	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
SDC-1 Meas		34.0	1.57	1.02	8.53	2.66	1.02		35	51	894	4.96	0.9	90	36.1	3.4	2.7	1.2		4.03	17.7	1.42	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
SDC-1 Meas		36.7	1.68	1.02	8.37	2.72	1.10		32	49	833	4.75	0.9	60	35.2	3.6	3.1	1.2		3.85	17.4	1.48	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
Oreas 72a (4 Acid Digest) Meas										253		9.20			> 5000							153	
Oreas 72a (4 Acid Digest) Cert										228		9.63			6930.00							157	
Oreas 72a (4 Acid Digest) Meas										192		10.4			> 5000							161	
Oreas 72a (4 Acid Digest) Cert										228		9.63			6930.00							157	
Oreas 72a (4 Acid Digest) Meas										270		9.65			> 5000							152	
Oreas 72a (4 Acid Digest) Cert										228		9.63			6930.00							157	
Oreas 72a (4 Acid Digest) Meas										186		9.35			> 5000							155	
Oreas 72a (4 Acid Digest) Cert										228		9.63			6930.00							157	
Oreas 72a (4 Acid Digest) Meas										182		9.56			> 5000							157	
Oreas 72a (4 Acid Digest) Cert										228		9.63			6930.00							157	
OREAS 101a (4 Acid) Meas				1.23		2.35			77		913	10.2			8.8	14.1		4.9				43.9	7.54
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7			8.2	15		5.2				45	8.1
OREAS 101b (4 Acid) Meas				1.21		2.22			72		947	10.7			8.6	13.3		4.8				44.5	6.31
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7			8.2	15		5.2				45	8.1
OREAS 101b (4 Acid) Meas				1.15		1.75			69		882	10.3			8.5	13.8		4.7				44.4	6.73
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7			8.2	15		5.2				45	8.1
OREAS 101b (4 Acid) Meas				1.22		2.29			70		953	10.9			8.9	14.2		4.8				45.5	7.08
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7			8.2	15		5.2				45	8.1
OREAS 98 (4 Acid) Meas																			41.8			114	85.6
OREAS 98 (4 Acid) Cert																			45.1			121	97.2
OREAS 98 (4 Acid) Meas																			41.5			113	86.6
OREAS 98 (4 Acid) Cert																			45.1			121	97.2
OREAS 98 (4 Acid) Meas																			49.3			130	96.6
OREAS 98 (4 Acid) Cert																			45.1			121	97.2

QC

Activation Laboratories Ltd.

Report: A20-12865

Analyte Symbal	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Ba	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbal	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	Ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA																						
Method Code	FA-AA																						
Acid) Cert																							
OREAS 98 (4 Acid) Meas																				14.6	130		97.1
OREAS 98 (4 Acid) Cert																				45.1	121		97.2
OREAS 98 (4 Acid) Meas																				44.1	128		97.6
OREAS 98 (4 Acid) Cert																				45.1	121		97.2
DNC-1a Meas		4.5	1.34				7.87		145	157		6.77				252					56.8	0.49	
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97				247					57	0.59	
DNC-1a Meas		4.7	1.48				7.88		149	152		6.84				259					56.4	0.53	
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97				247					57	0.59	
OREAS 13b (4-Acid) Meas										> 5000						2130				0.93	78.9		
OREAS 13b (4-Acid) Cert										8650.000						2247.000				0.86	75		
OREAS 13b (4-Acid) Meas										> 5000						2020				0.91	74.3		
OREAS 13b (4-Acid) Cert										8650.000						2247.000				0.86	75		
OREAS 13b (4-Acid) Meas										> 5000						2180				0.82	69.8		
OREAS 13b (4-Acid) Cert										8650.000						2247.000				0.86	75		
OREAS 904 (4 ACID) Meas		16.7	0.03	0.61	6.99	3.39	0.04		81	62	431	6.85	4.3		43.1		7.2		0.55	3.84	85.7		4.05
OREAS 904 (4 ACID) Cert		16.7	0.0340	0.556	6.30	3.31	0.0460		76.0	54.0	410	6.68	5.00		40.1		7.86		0.551	3.79	83.0		4.05
OREAS 904 (4 ACID) Meas		16.8	0.03	0.57	6.89	3.24	0.04		79	57	399	6.37	4.8		40.3		7.1		0.64	3.84	82.4		3.92
OREAS 904 (4 ACID) Cert		16.7	0.0340	0.556	6.30	3.31	0.0460		76.0	54.0	410	6.68	5.00		40.1		7.86		0.551	3.79	83.0		4.05
SBC-1 Meas		163							0.4	221	81				85.9	3.2	3.1	1.1		7.85	21.8	1.58	0.63
SBC-1 Cert		163							0.40	220.0	109				82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
SBC-1 Meas		159							0.3	216	95				83.1	3.5	2.9	1.2		8.17	21.6	1.67	0.63
SBC-1 Cert		163							0.40	220.0	109				82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
SBC-1 Meas		163							0.4	221	107				81.8	3.3	3.1	1.2		7.31	23.0	1.62	0.69
SBC-1 Cert		163							0.40	220.0	109				82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
OREAS 45d (4-Acid) Meas		22.8	0.10	0.22	8.39	0.38	0.19		129	527	489	14.6	2.7		233	1.5	0.7	0.5		3.91	29.6	0.63	0.31
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 45d (4-Acid) Meas		22.5	0.08	0.22	9.18	0.40	0.18		109	509	473	14.1	2.1		238	1.3	1.0	0.5		3.84	28.8	0.63	0.31
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 45d (4-Acid) Meas		22.8	0.09	0.23	8.66	0.42	0.17		183	576	491	14.6	3.6		238	1.4	0.9	0.5		4.05	30.3	0.60	0.32
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 45d (4-Acid) Meas		22.1	0.09	0.18	7.67	0.40	0.19		175	576	474	14.1	3.6		215	1.3	0.8	0.5		3.48	28.5	0.55	0.33
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 96 (4 Acid) Meas																				9.65	47.9		27.1

QC

Activation Laboratories Ltd.

Report: A20-12865

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cl	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA		TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 96 (4 Acid) Cert																			11.5		49.9		26.3
OREAS 96 (4 Acid) Meas																			11.0		51.8		28.7
OREAS 96 (4 Acid) Cert																			11.5		49.9		26.3
OREAS 923 (4 Acid) Meas		33.1	0.32	1.74	7.81	2.34	0.47	0.4	94	79	964	6.29	3.8		36.5	2.9	2.2	1.0	1.83	6.91	23.5	1.36	22.7
OREAS 923 (4 Acid) Cert		31.4	0.324	1.69	7.29	2.51	0.473	0.420	91.0	71.0	950	6.43	3.42		35.8	2.86	2.42	0.960	1.60	6.70	23.1	1.37	21.4
OREAS 923 (4 Acid) Meas		32.1	0.32	1.68	7.96	2.44	0.46	0.5	92	79	957	6.35	3.6		37.0	2.7	2.2	0.9	1.72	6.91	23.2	1.30	18.6
OREAS 923 (4 Acid) Cert		31.4	0.324	1.69	7.29	2.51	0.473	0.420	91.0	71.0	950	6.43	3.42		35.8	2.86	2.42	0.960	1.60	6.70	23.1	1.37	21.4
OREAS 621 (4 Acid) Meas		15.0	1.43	0.47	6.97	2.12	2.01	305	36	33	524	3.68	4.4		26.2		1.6		63.1	3.37	29.4		3.97
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41		26.2		1.69		69.0	3.28	29.3		3.93
OREAS 621 (4 Acid) Meas		13.8	1.35	0.41	6.50	1.69	1.89	294	33	33	529	3.90	4.3		28.1		1.7		62.1	3.09	28.8		3.78
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41		26.2		1.69		69.0	3.28	29.3		3.93
OREAS 621 (4 Acid) Meas		14.4	1.42	0.52	6.52	2.04	1.99	266	34	31	506	3.92	4.4		26.2		1.9		64.2	3.20	30.5		4.08
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41		26.2		1.69		69.0	3.28	29.3		3.93
OREAS 522 (4 Acid) Meas		16.7	0.60	1.12	3.96	2.48	3.68		162	41	387	23.5	3.0		68.0	2.0	0.8	0.7	1.26	0.59	> 500	1.92	9.01
OREAS 522 (4 Acid) Cert		16.2	0.633	1.12	3.95	2.83	3.65		164	29.6	3970	24.6	2.96		70.0	1.97	0.700	0.660	1.31	0.640	550	1.88	8.72
OREAS 522 (4 Acid) Meas		15.8	0.53	1.03	3.78	2.51	3.40		162	41	376	23.2	3.0		62.3	1.9	0.9	0.7	1.24	0.61	488	1.80	9.00
OREAS 522 (4 Acid) Cert		16.2	0.633	1.12	3.95	2.83	3.65		164	29.6	3970	24.6	2.96		70.0	1.97	0.700	0.660	1.31	0.640	550	1.88	8.72
OREAS 522 (4 Acid) Meas		15.8	0.62	1.15	3.98	2.85	3.60		163	41	4180	24.6	2.9		70.3	2.0	0.8	0.7	1.32	0.61	> 500	1.75	8.71
OREAS 522 (4 Acid) Cert		16.2	0.633	1.12	3.95	2.83	3.65		164	29.6	3970	24.6	2.96		70.0	1.97	0.700	0.660	1.31	0.640	550	1.88	8.72
OREAS 522 (4 Acid) Meas		16.7	0.66	1.18	4.08	3.12	4.07		180	45	4390	26.5	3.1		77.1	2.1	0.8	0.7	1.41	0.72	> 500	1.74	8.97
OREAS 522 (4 Acid) Cert		16.2	0.633	1.12	3.95	2.83	3.65		164	29.6	3970	24.6	2.96		70.0	1.97	0.700	0.660	1.31	0.640	550	1.88	8.72
OREAS 238 (Fire Assay) Meas	3100																						
OREAS 238 (Fire Assay) Cert	3030																						
Oreas E1336 (Fire Assay) Meas	500																						
OREAS E1336 (Fire Assay) Cert	510																						
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	15	3	< 0.01	< 0.1	80	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	2	10	7	< 0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	4	2	< 0.01	< 0.1	30	< 0.5	< 0.1	0.2	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	4	2	< 0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	7	7	< 0.01	< 0.1	50	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	5	5	< 0.01	< 0.1	50	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	4	6	< 0.01	< 0.1	20	< 0.5	< 0.1	0.5	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02

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Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Co	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Ge	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	3	5	6	< 0.01	< 0.1	70	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	3	6	3	< 0.01	< 0.1	90	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	4	4	< 0.01	< 0.1	60	< 0.5	< 0.1	0.3	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	6	1	< 0.01	< 0.1	20	< 0.5	< 0.1	0.2	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank	< 5																						

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Activation Laboratories Ltd.

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Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
SDC-1 Meas		100	21.3	0.9	125		182	34	< 0.1			< 1	< 0.1		651	40.0	90.1		40.7	8.9	6.9	1.1	6.3
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		108	20.7	0.2	99.9		179	22	< 0.1			< 1	< 0.1		611	40.1	82.4		38.2	7.3	6.5	0.9	5.5
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		105	20.3	0.2	106		178	29	< 0.1			< 1	< 0.1		627	40.7	87.2		39.7	7.3	6.9	1.0	6.3
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		116	22.4	0.8	112		181	37	0.1			< 1	< 0.1		632	41.8	87.9		40.8	7.4	6.8	0.9	5.9
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		104	21.1	0.4	118		183	29	< 0.1			< 1	< 0.1		680	41.3	93.6		41.6	7.9	7.1	1.0	6.1
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
Oreas 72a (4 Acid Digest) Meas				7.7																			
Oreas 72a (4 Acid Digest) Cert				14.7																			
Oreas 72a (4 Acid Digest) Meas				3.1																			
Oreas 72a (4 Acid Digest) Cert				14.7																			
Oreas 72a (4 Acid Digest) Meas				7.6																			
Oreas 72a (4 Acid Digest) Cert				14.7																			
Oreas 72a (4 Acid Digest) Meas				3.9																			
Oreas 72a (4 Acid Digest) Cert				14.7																			
Oreas 72a (4 Acid Digest) Meas				5.0																			
Oreas 72a (4 Acid Digest) Cert				14.7																			
OREAS 101b (4 Acid) Meas						124			20.6						724	1330	122	348	47.0	36.1	4.8	26.4	
OREAS 101b (4 Acid) Cert						133			20.1						754	1325	127	388	48	40	5.4	27	
OREAS 101b (4 Acid) Meas						122			19.4						749	1250	109	363	50.9	38.3	4.0	24.5	
OREAS 101b (4 Acid) Cert						133			20.1						754	1325	127	388	48	40	5.4	27	
OREAS 101b (4 Acid) Meas						127			18.0						721	1290	119	377	42.7	38.3	4.2	25.4	
OREAS 101b (4 Acid) Cert						133			20.1						754	1325	127	388	48	40	5.4	27	
OREAS 101b (4 Acid) Meas						133			20.1						769	1390	126	396	44.3	37.3	4.1	26.1	
OREAS 101b (4 Acid) Cert						133			20.1						754	1325	127	388	48	40	5.4	27	
OREAS 98 (4 Acid) Meas	178	1260										181	10.5										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
OREAS 98 (4 Acid) Meas	175	1260										179	5.8										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
OREAS 98 (4 Acid) Meas	166	1440										> 200	12.6										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										

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Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 98 (4 Acid) Cert		164	1420										193	5.3									
OREAS 98 (4 Acid) Meas		158	1360										206	20.1									
OREAS 98 (4 Acid) Cert		160	1420										199	5.6									
OREAS 98 (4 Acid) Meas		158	1360										206	20.1									
DNC-1a Meas		65.2	12.6		1.2	13.7	140	35	1.5				0.7		104	3.0			4.4				
DNC-1a Cert		70	15		4.50	18.0	144	38.0	3				0.96		118	3.6			5.20				
DNC-1a Meas		63.2	12.9		2.9	15.5	145	37	1.4				0.7		106	3.5			4.9				
DNC-1a Cert		70	15		4.50	18.0	144	38.0	3				0.96		118	3.6			5.20				
OREAS 13b (4-Acid) Meas		141		54.7						9.87													
OREAS 13b (4-Acid) Cert		133		57						9.0													
OREAS 13b (4-Acid) Meas		135		55.9						9.93													
OREAS 13b (4-Acid) Cert		133		57						9.0													
OREAS 13b (4-Acid) Meas		127		46.4						8.67													
OREAS 13b (4-Acid) Cert		133		57						9.0													
OREAS 904 (4 Acid) Meas	3.0	24.7	17.0	102	143	33.7	28.5	153		2.18	0.2	3	1.1		221	44.5	90.2						1.0
OREAS 904 (4 Acid) Cert	3.30	26.3	16.7	98.0	130	31.5	27.2	171		2.12	0.220	2.83	1.48		194	43.2	86.0						1.00
OREAS 904 (4 Acid) Meas	2.9	33.1	16.4	101	139	33.0	28.2	172		2.36	0.2	3	1.4		204	42.2	85.0						0.9
OREAS 904 (4 Acid) Cert	3.30	26.3	16.7	98.0	130	31.5	27.2	171		2.12	0.220	2.83	1.48		194	43.2	86.0						1.00
SBC-1 Meas		194	25.0	25.4	129	29.4	185	120	11.6	2.25		3	0.9		674	46.5	96.3	10.8	44.4	9.1	7.4	1.0	6.1
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
SBC-1 Meas		191	24.1	25.7	133	29.1	178	120	13.7	2.06		3	1.0		720	48.8	102	11.6	46.7	10.4	7.7	1.0	6.3
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
SBC-1 Meas		189	25.1	26.9	115	27.6	173	116	15.1	2.23		3	1.0		673	40.0	95.9	11.1	42.8	8.7	7.3	1.0	6.2
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
OREAS 45d (4-Acid) Meas	41.8	21.2	8.3	44.0	12.2	35.3	97	0.9	0.42	< 0.1	< 1	< 0.1		195	17.2	38.4	4.0	14.7	2.9	2.3	0.4	2.4	
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26	
OREAS 45d (4-Acid) Meas	43.8	22.7	8.2	44.6	12.2	32.4	77	0.3	0.34	< 0.1	< 1	< 0.1		183	17.3	39.1	4.1	14.9	2.9	2.4	0.4	2.3	
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26	
OREAS 45d (4-Acid) Meas	43.1	22.8	12.5	43.4	11.7	33.1	135	5.0	0.97	0.1	1	0.2		189	16.5	37.4	4.0	14.5	3.2	2.4	0.4	2.3	
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26	
OREAS 45d (4-Acid) Meas	43.7	19.4	11.3	35.1	10.2	29.5	132	4.5	0.91	< 0.1	1	0.2		181	14.8	34.5	3.6	14.0	2.9	2.5	0.4	2.3	
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26	
OREAS 96 (4 Acid) Meas	34.2	425										57	2.9										

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Analyte Symbol	Sc	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 96 (4 Acid) Cert	40.7	45.7										65.6	5.09										
OREAS 96 (4 Acid) Meas	40.1	45.6										62	3.8										
OREAS 96 (4 Acid) Cert	40.7	45.7										65.6	5.09										
OREAS 923 (4 Acid) Meas	7.0	370	19.5	8.6	166	27.7	43.5	134	14.9	1.10	0.5	14	1.3		367	42.2	84.2	10.0	37.0	6.3	5.5	0.9	5.1
OREAS 923 (4 Acid) Cert	6.54	345	20.3	7.61	166	26.4	43.0	116	14.1	0.930	0.520	13.3	1.29		434	42.2	83.0	9.58	35.4	6.64	5.73	0.850	5.05
OREAS 923 (4 Acid) Meas	7.3	352	19.7	9.0	162	26.8	43.7	123	14.2	1.10	0.5	13	1.3		384	40.8	82.0	9.7	35.2	6.6	5.4	0.8	4.7
OREAS 923 (4 Acid) Cert	6.54	345	20.3	7.61	166	26.4	43.0	116	14.1	0.930	0.520	13.3	1.29		434	42.2	83.0	9.58	35.4	6.64	5.73	0.850	5.05
OREAS 621 (4 Acid) Meas	6.3	> 10000	26.5	75.6	86.1	11.9	60.6	168	9.1	14.2	1.8	5	18.6			16.1	44.0						0.5
OREAS 621 (4 Acid) Cert	5.64	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6						0.460
OREAS 621 (4 Acid) Meas	5.1	> 10000	24.4	70.9	67.6	11.0	66.7	175	8.7	13.1	1.5	5	25.6			18.4	43.5						0.4
OREAS 621 (4 Acid) Cert	5.64	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6						0.460
OREAS 621 (4 Acid) Meas	5.0	> 10000	24.1	70.6	77.8	11.3	64.1	175	9.1	13.9	1.8	5	18.8			16.9	45.9						0.4
OREAS 621 (4 Acid) Cert	5.64	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6						0.460
OREAS 522 (4 Acid) Meas	2.1	31.2	15.9	378	81.5	18.8	113	113	3.0	199	0.2	9	2.8	0.2		76.1	109	9.0	27.7	4.0	4.2	0.6	3.5
OREAS 522 (4 Acid) Cert	2.74	30.2	16.0	490	82.0	18.5	199	112	5.66	206	0.230	9.32	7.93	1.14		171	148	9.76	27.2	4.17	3.87	0.590	3.24
OREAS 522 (4 Acid) Meas	2.7	32.5	15.8	421	80.7	18.6	88.3	113	4.7	207	0.2	9	4.5	0.5		51.7	83.8	8.0	26.2	3.4	3.7	0.5	3.3
OREAS 522 (4 Acid) Cert	2.74	30.2	16.0	490	82.0	18.5	199	112	5.66	206	0.230	9.32	7.93	1.14		171	148	9.76	27.2	4.17	3.87	0.590	3.24
OREAS 522 (4 Acid) Meas	2.3	31.8	18.2	414	82.7	18.3	98.1	130	3.5	229	0.2	9	3.0	0.2		69.3	97.4	8.1	26.6	4.2	4.2	0.5	3.4
OREAS 522 (4 Acid) Cert	2.74	30.2	16.0	490	82.0	18.5	199	112	5.66	206	0.230	9.32	7.93	1.14		171	148	9.76	27.2	4.17	3.87	0.590	3.24
OREAS 522 (4 Acid) Meas	2.5	40.6	18.4	500	87.1	19.1	85.1	144	5.9	257	0.2	9	5.0	0.5		53.1	81.7	7.9	26.4	3.8	4.2	0.5	3.4
OREAS 522 (4 Acid) Cert	2.74	30.2	16.0	490	82.0	18.5	199	112	5.66	206	0.230	9.32	7.93	1.14		171	148	9.76	27.2	4.17	3.87	0.590	3.24
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Method Blank	< 0.1	0.8	0.1	0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.19	< 0.1	< 1	< 0.1	0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	0.5	0.1	1.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.3	< 0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.08	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	0.6	0.1	0.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.2	0.4	0.1	0.4	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.2	0.3	0.1	0.4	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.6	0.4	< 0.1	0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

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Activation Laboratories Ltd.

Report: A20-12865

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank	< 0.1	7.5	0.1	0.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	0.8	0.2	0.4	< 0.2	< 0.1	0.2	< 1	< 0.1	0.09	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.3	1.3	0.2	1.3	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.07	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.5	1.2	< 0.1	0.3	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.06	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.6	< 0.2	< 0.1	0.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.14	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank																							
Method Blank																							
Method Blank																							

QC

Activation Laboratories Ltd.

Report: A20-12865

Analyte Symbol	Cu	Co	Cr	Yb	Lu	Ta	W	Mo	Ti	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
SDC-1 Meas	38.5		0.5	3.2		< 0.1	< 0.1		0.67	25.2	15	12.0	2.8	0.0763	0.056	
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas	28.6		0.5	3.2		< 0.1	< 0.1		0.60	23.6	15	11.9	2.6	0.117	0.057	
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas	29.2		0.5	3.3		< 0.1	< 0.1		0.63	25.8		12.2	2.6			
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00		12.00	3.10			
SDC-1 Meas	32.5		0.5	3.3		< 0.1	< 0.1		0.60	23.6		12.2	2.7			
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00		12.00	3.10			
SDC-1 Meas	31.4		0.5	3.3		< 0.1	< 0.1		0.66	23.6		12.1	2.8			
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00		12.00	3.10			
Oreas 72a (4 Acid Digest) Meas	334															1.72
Oreas 72a (4 Acid Digest) Cert	316															1.74
Oreas 72a (4 Acid Digest) Meas	321															1.73
Oreas 72a (4 Acid Digest) Cert	316															1.74
Oreas 72a (4 Acid Digest) Meas	309															
Oreas 72a (4 Acid Digest) Cert	316															
Oreas 72a (4 Acid Digest) Meas	318															
Oreas 72a (4 Acid Digest) Cert	316															
Oreas 72a (4 Acid Digest) Meas	310															
Oreas 72a (4 Acid Digest) Cert	316															
OREAS 101b (4 Acid) Meas	414		2.1	13.2	1.9				22.7			35.5	348	0.341	0.114	
OREAS 101b (4 Acid) Cert	412		2.08	13.9	1.96				23			36.4	387	0.35		
OREAS 101b (4 Acid) Meas	399		1.8	12.7	1.7				21.2			36.9	384	0.333	0.107	
OREAS 101b (4 Acid) Cert	412		2.08	13.9	1.96				23			36.4	387	0.35		
OREAS 101b (4 Acid) Meas	422		1.9	12.6	1.7				22.4			37.2	390			
OREAS 101b (4 Acid) Cert	412		2.08	13.9	1.96				23			36.4	387			
OREAS 101b (4 Acid) Meas	424		2.0	12.6	1.7				21.8			37.7	396			
OREAS 101b (4 Acid) Cert	412		2.08	13.9	1.96				23			36.4	387			
OREAS 98 (4 Acid) Meas	> 10000									301						16.4
OREAS 98 (4 Acid) Cert	14800									345						15.5
OREAS 98 (4 Acid) Meas	> 10000									305						
OREAS 98 (4 Acid) Cert	14800									345						
OREAS 98 (4 Acid) Meas	> 10000									332						
OREAS 98 (4 Acid) Cert	14800									345						

QC

Activation Laboratories Ltd.

Report: A20-12865

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Rc	Ti	Pb	Sc	Th	U	Tl	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Acid Cert	0.0															
OREAS 98 (4 Acid) Meas	> 10000									328						
OREAS 98 (4 Acid) Cert	14800									345						
OREAS 98 (4 Acid) Meas	0.0									328						
OREAS 98 (4 Acid) Cert	14800									345						
DNC-1a Meas	96.6			1.8						5.8	31			0.274		
DNC-1a Cert	100			2.0						6.3	31			0.29		
DNC-1a Meas	91.5			1.9						5.9						
DNC-1a Cert	100			2.0						6.3						
OREAS 13b (4-Acid) Meas	2310															1.19
OREAS 13b (4-Acid) Cert	2327.0															1.2
OREAS 13b (4-Acid) Meas	2070															
OREAS 13b (4-Acid) Cert	2327.0															
OREAS 13b (4-Acid) Meas	2160															
OREAS 13b (4-Acid) Cert	2327.0															
OREAS 904 (4 ACID) Meas	5970	0.1		3.3	0.5	0.2	1.2		0.57	11.1	11	15.2	8.9		0.087	0.06
OREAS 904 (4 ACID) Cert	6120	0.180		3.14	0.470	0.540	2.12		0.520	10.6	11.2	14.3	8.43		0.0980	0.0630
OREAS 904 (4 ACID) Meas	6010	< 0.1		3.0	0.5	0.9	2.8		0.54	10.8		15.1	8.8			
OREAS 904 (4 ACID) Cert	6120	0.180		3.14	0.470	0.540	2.12		0.520	10.6		14.3	8.43			
SBC-1 Meas	32.7		0.5	3.3	0.4	0.6	1.3		0.87	34.0	20	14.4	5.2	0.487		
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
SBC-1 Meas	29.1		0.5	3.3	0.5	1.0	1.6		0.84	33.8		15.7	5.5			
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0		15.8	5.76			
SBC-1 Meas	29.6		0.5	3.1	0.4	1.1	1.5		0.92	38.5		12.2	5.1			
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0		15.8	5.76			
OREAS 45d (4-Acid) Meas	380			1.5	0.2	< 0.1	< 0.1		0.25	21.9	54	15.1	2.8	0.244	0.036	0.04
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8	49.3	14.5	2.63	0.773	0.042	0.049
OREAS 45d (4-Acid) Meas	386			1.4	0.2	< 0.1	< 0.1		0.25	21.6		15.2	2.8			
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8		14.5	2.63			
OREAS 45d (4-Acid) Meas	384			1.5	0.2	0.2	0.2		0.26	22.1		14.8	2.9			
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8		14.5	2.63			
OREAS 45d (4-Acid) Meas	367			1.4	0.2	0.2	0.2		0.26	21.0		14.3	2.7			
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8		14.5	2.63			
OREAS 96 (4 Acid) Meas	> 10000									96.7						

QC

Activation Laboratories Ltd.

Report: A20-12865

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Ti	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
OREAS 96 (4 Acid) Cert	39300									101						
OREAS 96 (4 Acid) Meas	> 10000									99.7						
OREAS 96 (4 Acid) Cert	39300									101						
OREAS 9p3 (4 Acid) Meas	4300		0.4	2.6	0.4	1.2	4.9		0.92	84.2	14	16.7	3.2	0.422	0.067	0.73
OREAS 923 (4 Acid) Cert	4230		0.410	2.57	0.390	1.11	4.85		0.860	83.0	13.1	16.5	3.06	0.405	0.0630	0.691
OREAS 923 (4 Acid) Meas	4280		0.4	2.5	0.4	1.2	5.1		0.94	83.2		16.6	3.2			
OREAS 923 (4 Acid) Cert	4230		0.410	2.57	0.390	1.11	4.85		0.860	83.0		16.5	3.06			
OREAS 621 (4 Acid) Meas	3620			1.0	0.2		1.7		2.30	> 5000	7	4.2	3.0	0.183	0.036	4.56
OREAS 621 (4 Acid) Cert	3630			0.990	0.140		2.35		1.96	13600	6.24	7.48	2.83	0.149	0.0359	4.48
OREAS 621 (4 Acid) Meas	3590			1.0	0.2		2.0		1.96	> 5000		5.5	2.7			
OREAS 621 (4 Acid) Cert	3630			0.990	0.140		2.35		1.96	13600		7.48	2.83			
OREAS 621 (4 Acid) Meas	3630			1.0	0.1		1.9		2.11	> 5000		4.5	2.9			
OREAS 621 (4 Acid) Cert	3630			0.990	0.140		2.35		1.96	13600		7.48	2.83			
OREAS 522 (4 Acid) Meas	8770		0.3	2.0	0.3	0.1	69.3	0.100	0.29	6.4	11	2.7	43.3	0.346	0.087	2.39
OREAS 522 (4 Acid) Cert	9160		0.280	1.97	0.310	0.440	135	0.0980	0.290	12.5	10.9	7.53	42.2	0.344	0.0890	2.50
OREAS 522 (4 Acid) Meas	8340		0.3	1.9	0.3	0.3	111	0.101	0.29	7.0		2.1	43.3			
OREAS 522 (4 Acid) Cert	9160		0.280	1.97	0.310	0.440	135	0.0980	0.290	12.5		7.53	42.2			
OREAS 522 (4 Acid) Meas	9090		0.3	2.0	0.3	0.1	84.3	0.086	0.29	6.5		2.1	43.8			
OREAS 522 (4 Acid) Cert	9160		0.280	1.97	0.310	0.440	135	0.0980	0.290	12.5		7.53	42.2			
OREAS 522 (4 Acid) Meas	9720		0.3	2.1	0.3	0.3	124	0.088	0.29	7.5		1.9	45.3			
OREAS 522 (4 Acid) Cert	9160		0.280	1.97	0.310	0.440	135	0.0980	0.290	12.5		7.53	42.2			
OREAS 238 (Fire Assay) Meas																
OREAS 238 (Fire Assay) Cert																
Oreas E1336 (Fire Assay) Meas																
Oreas E1336 (Fire Assay) Cert																
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	0.6	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	0.8	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.001	< 0.05	< 0.5	< 0.1	< 0.1			
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01

QC

Activation Laboratories Ltd.

Report: A20-12865

Analyte Symbol	Cu	Ge	Gm	Yb	Lu	Ta	W	Re	Pr	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Method Blank	14.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	0.7		< 0.1	< 0.1	0.0005		
Method Blank	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.001	< 0.05	1.2	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01
Method Blank	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	1.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	1.9	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank											< 1			0.0005	< 0.001	< 0.01
Method Blank											< 1			<	< 0.001	< 0.01
Method Blank														0.0005		



Report No.: A20-12866
 Report Date: 14-Dec-20
 Date Submitted: 16-Oct-20
 Your Reference:

Todd Thurier
 136 Elm Crescent Box 1318
 Atikokan Ontario
 Canada

ATTN: Todd Thurier

CERTIFICATE OF ANALYSIS

1 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-11-09 16:35:20

REPORT A20-12866

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

Notes:

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

CERTIFIED BY:

Emmanuel Esemé, Ph.D.
 Quality Control Coordinator

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 E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: A20-12866
 Report Date: 14-Dec-20
 Date Submitted: 16-Oct-20
 Your Reference:

Todd Thurier
 136 Elm Crescent Box 1318
 Atikokan Ontario
 Canada

ATTN: Todd Thurier

CERTIFICATE OF ANALYSIS

1 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
UT-6	QOP Total/QOP Ultratrace- 4acid Digest (Total Digestion ICPOES/ICPMS)	2020-11-24 15:29:28

REPORT A20-12866

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

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetricCode 1A3

CERTIFIED BY:



Emmanuel Esemé, Ph.D.
 Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
 41 Bitem Street, Ancaster, Ontario, Canada, L9G 4V5
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Results

Activation Laboratories Ltd.

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Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Pb	Hg	Ni	Er	Be	Hf	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
1021706	< 5	25.5	2.54	1.08	8.36	2.28	1.83	0.1	52	78	1220	3.68	2.6	50	47.4	1.0	1.5	0.3	0.10	1.63	22.5	0.59	0.08

Results

Activation Laboratories Ltd.

Report: A20-12866

Analyte Symbol	Sc	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
1021706	0.3	93.3	14.4	1.6	76.5	4.4	298	95	4.8	1.29	< 0.1	< 1	0.1	< 0.1	520	13.0	27.8	2.8	11.4	2.5	2.0	0.3	1.7	

Results

Activation Laboratories Ltd.

Report: A20-12866

Analyte Symbol	Cu	Ge	Ym	Yb	Lu	Ta	W	Re	Ti	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
1021706	42.9	< 0.1	0.1	1.0	0.1	0.4	0.4	< 0.001	0.51	13.0	9	8.9	1.3	0.191	0.038	0.21

QC

Activation Laboratories Ltd.

Report: A20-12866

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Method Code	LA-AA	ID-MS	ID-MS	ID-MS	ID-MS	ID-MS	ID-MS	ID-MS	ID-MS	ID-MS	ID-MS	ID-MS	ID-MS	ID-MS	ID-MS	ID-MS	ID-MS	ID-MS	ID-MS	ID-MS	ID-MS	ID-MS	ID-MS
SDC-1 Meas		37.0	1.57	1.04	9.19	2.76	0.98		34	48	866	4.79	1.0	10	35.0	3.6	2.5	1.3		4.11	17.5	1.56	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
SDC-1 Meas		33.5	1.53	1.01	8.20	2.47	0.97		26	51	869	4.98	0.7	40	34.8	3.3	2.6	1.1		3.85	17.6	1.34	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
SDC-1 Meas		34.0	1.52	1.01	7.92	2.54	0.99		30	45	841	4.73	0.8	90	33.5	3.6	2.9	1.2		4.04	17.7	1.42	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
SDC-1 Meas		34.0	1.57	1.02	8.53	2.66	1.02		35	51	894	4.96	0.9	90	36.1	3.4	2.7	1.2		4.03	17.7	1.42	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
SDC-1 Meas		36.7	1.68	1.02	8.37	2.72	1.10		32	49	833	4.75	0.9	60	35.2	3.6	3.1	1.2		3.85	17.4	1.48	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
Oreas 72a (4 Acid Digest) Meas										253		9.20			> 5000							153	
Oreas 72a (4 Acid Digest) Cert										228		9.63			6930.00							157	
Oreas 72a (4 Acid Digest) Meas										192		10.4			> 5000							161	
Oreas 72a (4 Acid Digest) Cert										228		9.63			6930.00							157	
Oreas 72a (4 Acid Digest) Meas										270		9.65			> 5000							152	
Oreas 72a (4 Acid Digest) Cert										228		9.63			6930.00							157	
Oreas 72a (4 Acid Digest) Meas										186		9.35			> 5000							155	
Oreas 72a (4 Acid Digest) Cert										228		9.63			6930.00							157	
Oreas 72a (4 Acid Digest) Meas										182		9.56			> 5000							157	
Oreas 72a (4 Acid Digest) Cert										228		9.63			6930.00							157	
OREAS 101b (4 Acid) Meas				1.23		2.35			77		913	10.2			8.8	14.1		4.9			43.9	7.54	
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7			8.2	15		5.2			45	8.1	
OREAS 101b (4 Acid) Meas				1.21		2.22			72		947	10.7			8.6	13.3		4.8			44.5	6.31	
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7			8.2	15		5.2			45	8.1	
OREAS 101b (4 Acid) Meas				1.15		1.75			69		882	10.3			8.5	13.8		4.7			44.4	6.73	
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7			8.2	15		5.2			45	8.1	
OREAS 101b (4 Acid) Meas				1.22		2.29			70		953	10.9			8.9	14.2		4.8			45.5	7.08	
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7			8.2	15		5.2			45	8.1	
OREAS 98 (4 Acid) Meas																			41.8		114		85.6
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
OREAS 98 (4 Acid) Meas																			41.5		113		86.6
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
OREAS 98 (4 Acid) Meas																			49.3		130		96.6
OREAS 98 (4 Acid) Cert																			45.1		121		97.2

QC

Activation Laboratories Ltd.

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Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Pb
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 98 (4 Acid) Meas																			44.6		130		97.1
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
OREAS 98 (4 Acid) Meas																			44.1		128		97.6
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
DNC-1a Meas		4.5	1.34				7.87		145	157		6.77				252						56.8	0.49
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97				247						57	0.59
DNC-1a Meas		4.7	1.48				7.88		149	152		6.84				259						56.4	0.53
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97				247						57	0.59
OREAS 13b (4-Acid) Meas										> 5000					2130				0.93			78.9	
OREAS 13b (4-Acid) Cert									8650.000						2247.000				0.86			75	
OREAS 13b (4-Acid) Meas										> 5000					2020				0.91			74.3	
OREAS 13b (4-Acid) Cert									8650.000						2247.000				0.86			75	
OREAS 13b (4-Acid) Meas										> 5000					2180				0.82			69.8	
OREAS 13b (4-Acid) Cert									8650.000						2247.000				0.86			75	
OREAS 904 (4 ACID) Meas		16.7	0.03	0.61	6.99	3.39	0.04		81	62	431	6.85	4.3		43.1		7.2		0.55	3.84	85.7		4.05
OREAS 904 (4 ACID) Cert		16.7	0.0340	0.556	6.30	3.31	0.0460		76.0	54.0	410	6.68	5.00		40.1		7.86		0.551	3.79	83.0		4.05
OREAS 904 (4 ACID) Meas		16.8	0.03	0.57	6.89	3.24	0.04		79	57	399	6.37	4.8		40.3		7.1		0.64	3.84	82.4		3.92
OREAS 904 (4 ACID) Cert		16.7	0.0340	0.556	6.30	3.31	0.0460		76.0	54.0	410	6.68	5.00		40.1		7.86		0.551	3.79	83.0		4.05
SBC-1 Meas		163						0.4	221	81			3.0		85.9	3.2	3.1	1.1		7.85	21.8	1.58	0.63
SBC-1 Cert		163						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
SBC-1 Meas		159						0.3	216	95			3.2		83.1	3.5	2.9	1.2		8.17	21.6	1.67	0.63
SBC-1 Cert		163						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
SBC-1 Meas		163						0.4	221	107			3.4		81.8	3.3	3.1	1.2		7.31	23.0	1.62	0.69
SBC-1 Cert		163						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
OREAS 45d (4-Acid) Meas		22.8	0.10	0.22	8.39	0.38	0.19		129	527	489	14.6	2.7		233	1.5	0.7	0.5		3.91	29.6	0.63	0.31
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 45d (4-Acid) Meas		22.5	0.08	0.22	9.18	0.40	0.18		109	509	473	14.1	2.1		238	1.3	1.0	0.5		3.84	28.8	0.63	0.31
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 45d (4-Acid) Meas		22.8	0.09	0.23	8.66	0.42	0.17		183	576	491	14.6	3.6		238	1.4	0.9	0.5		4.05	30.3	0.60	0.32
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 45d (4-Acid) Meas		22.1	0.09	0.18	7.67	0.40	0.19		175	576	474	14.1	3.6		215	1.3	0.8	0.5		3.48	28.5	0.55	0.33
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 96 (4 Acid) Meas																			9.65		47.9		27.1

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Activation Laboratories Ltd.

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Analyte Symbol	Lu	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	B0		
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS		
OREAS 96 (4 Acid) Cert																		11.5	49.9		26.3		
OREAS 96 (4 Acid) Meas																		11.0	51.8		28.7		
OREAS 96 (4 Acid) Cert																		11.5	49.9		26.3		
OREAS 923 (4 Acid) Meas		33.1	0.32	1.74	7.81	2.34	0.47	0.4	94	79	964	6.29	3.8		36.5	2.9	2.2	1.0	1.83	6.91	23.5	1.36	22.7
OREAS 923 (4 Acid) Cert		31.4	0.324	1.69	7.29	2.51	0.473	0.420	91.0	71.0	950	6.43	3.42		35.8	2.86	2.42	0.960	1.60	6.70	23.1	1.37	21.4
OREAS 923 (4 Acid) Meas		32.1	0.32	1.68	7.96	2.44	0.46	0.5	92	79	957	6.35	3.6		37.0	2.7	2.2	0.9	1.72	6.91	23.2	1.30	18.6
OREAS 923 (4 Acid) Cert		31.4	0.324	1.69	7.29	2.51	0.473	0.420	91.0	71.0	950	6.43	3.42		35.8	2.86	2.42	0.960	1.60	6.70	23.1	1.37	21.4
OREAS 621 (4 Acid) Meas		15.0	1.43	0.47	6.97	2.12	2.01	305	36	33	524	3.68	4.4		26.2		1.6		63.1	3.37	29.4		3.97
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41		26.2		1.69		69.0	3.28	29.3		3.93
OREAS 621 (4 Acid) Meas		13.8	1.35	0.41	6.50	1.69	1.89	294	33	33	529	3.90	4.3		28.1		1.7		62.1	3.09	28.8		3.78
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41		26.2		1.69		69.0	3.28	29.3		3.93
OREAS 621 (4 Acid) Meas		14.4	1.42	0.52	6.52	2.04	1.99	266	34	31	506	3.92	4.4		26.2		1.9		64.2	3.20	30.5		4.08
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41		26.2		1.69		69.0	3.28	29.3		3.93
OREAS 522 (4 Acid) Meas		16.7	0.60	1.12	3.96	2.48	3.68		162	41	3870	23.5	3.0		68.0	2.0	0.8	0.7	1.26	0.59	> 500	1.92	9.01
OREAS 522 (4 Acid) Cert		16.2	0.633	1.12	3.95	2.83	3.65		164	29.6	3970	24.6	2.96		70.0	1.97	0.700	0.660	1.31	0.640	550	1.88	8.72
OREAS 522 (4 Acid) Meas		15.8	0.53	1.03	3.78	2.51	3.40		162	41	3760	23.2	3.0		62.3	1.9	0.9	0.7	1.24	0.61	488	1.80	9.00
OREAS 522 (4 Acid) Cert		16.2	0.633	1.12	3.95	2.83	3.65		164	29.6	3970	24.6	2.96		70.0	1.97	0.700	0.660	1.31	0.640	550	1.88	8.72
OREAS 522 (4 Acid) Meas		15.8	0.62	1.15	3.98	2.85	3.60		163	41	4180	24.6	2.9		70.3	2.0	0.8	0.7	1.32	0.61	> 500	1.75	8.71
OREAS 522 (4 Acid) Cert		16.2	0.633	1.12	3.95	2.83	3.65		164	29.6	3970	24.6	2.96		70.0	1.97	0.700	0.660	1.31	0.640	550	1.88	8.72
OREAS 522 (4 Acid) Meas		16.7	0.66	1.18	4.08	3.12	4.07		180	45	4390	26.5	3.1		77.1	2.1	0.8	0.7	1.41	0.72	> 500	1.74	8.97
OREAS 522 (4 Acid) Cert		16.2	0.633	1.12	3.95	2.83	3.65		164	29.6	3970	24.6	2.96		70.0	1.97	0.700	0.660	1.31	0.640	550	1.88	8.72
OREAS 238 (Fire Assay) Meas	3100																						
OREAS 238 (Fire Assay) Cert	3030																						
Oreas E1336 (Fire Assay) Meas	500																						
Oreas E1336 (Fire Assay) Cert	510																						
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	15	3	< 0.01	< 0.1	80	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	2	10	7	< 0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	4	2	< 0.01	< 0.1	30	< 0.5	< 0.1	0.2	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	4	2	< 0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	7	7	< 0.01	< 0.1	50	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	5	5	< 0.01	< 0.1	50	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	4	6	< 0.01	< 0.1	20	< 0.5	< 0.1	0.5	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02

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Analyte Symbol	Lu	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Hb	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	3	5	5	< 0.01	< 0.1	110	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	3	6	3	< 0.01	< 0.1	90	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	4	4	4	< 0.01	< 0.1	60	< 0.5	< 0.1	0.3	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	6	1	1	< 0.01	< 0.1	20	< 0.5	< 0.1	0.2	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank																							
Method Blank		< 5																					

Analyte Symbol	Sc	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
SDC-1 Meas		100	21.3	0.9	125		182	34	< 0.1			< 1	< 0.1		651	400	90.1		40.7	8.9	6.9	1.1	6.3
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		108	20.7	0.2	99.9		179	22	< 0.1			< 1	< 0.1		611	40.1	82.4		38.2	7.3	6.5	0.9	5.5
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		105	20.3	0.2	106		178	29	< 0.1			< 1	< 0.1		627	40.7	87.2		39.7	7.3	6.9	1.0	6.3
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		116	22.4	0.8	112		181	37	0.1			< 1	< 0.1		632	41.8	87.9		40.8	7.4	6.8	0.9	5.9
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		104	21.1	0.4	118		183	29	< 0.1			< 1	< 0.1		680	41.3	93.6		41.6	7.9	7.1	1.0	6.1
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
OREAS 72a (4 Acid Digest) Meas				7.7																			
OREAS 72a (4 Acid Digest) Cert				14.7																			
OREAS 72a (4 Acid Digest) Meas				3.1																			
OREAS 72a (4 Acid Digest) Cert				14.7																			
OREAS 72a (4 Acid Digest) Meas				7.6																			
OREAS 72a (4 Acid Digest) Cert				14.7																			
OREAS 72a (4 Acid Digest) Meas				3.9																			
OREAS 72a (4 Acid Digest) Cert				14.7																			
OREAS 72a (4 Acid Digest) Meas				5.0																			
OREAS 72a (4 Acid Digest) Cert				14.7																			
OREAS 101b (4 Acid) Meas						124				20.6					724	1330	122	348	47.0	36.1	4.8	26.4	
OREAS 101b (4 Acid) Cert						133				20.1					754	1325	127	388	48	40	5.4	27	
OREAS 101b (4 Acid) Meas						122				19.4					749	1250	109	363	50.9	38.3	4.0	24.5	
OREAS 101b (4 Acid) Cert						133				20.1					754	1325	127	388	48	40	5.4	27	
OREAS 101b (4 Acid) Meas						127				18.0					721	1290	119	377	42.7	38.3	4.2	25.4	
OREAS 101b (4 Acid) Cert						133				20.1					754	1325	127	388	48	40	5.4	27	
OREAS 101b (4 Acid) Meas						133				20.1					769	1390	126	396	44.3	37.3	4.1	26.1	
OREAS 101b (4 Acid) Cert						133				20.1					754	1325	127	388	48	40	5.4	27	
OREAS 98 (4 Acid) Meas		178	1260									181	10.5										
OREAS 98 (4 Acid) Cert		158	1360									206	20.1										
OREAS 98 (4 Acid) Meas		175	1260									179	5.8										
OREAS 98 (4 Acid) Cert		158	1360									206	20.1										
OREAS 98 (4 Acid) Meas		166	1440									> 200	12.6										
OREAS 98 (4 Acid) Cert		158	1360									206	20.1										

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Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 98 (4 Acid) Meas	164	1420											193	5.3									
OREAS 98 (4 Acid) Cert	158	1360											206	20.1									
OREAS 98 (4 Acid) Meas	160	1420											199	5.6									
OREAS 98 (4 Acid) Cert	158	1360											206	20.1									
DNC-1a Meas	65.2	12.6			1.2	13.7	140	35	1.5				0.7		104	3.0				4.4			
DNC-1a Cert	70	15			4.50	18.0	144	38.0	3				0.96		118	3.6				5.20			
DNC-1a Meas	63.2	12.9			2.9	15.5	145	37	1.4				0.7		106	3.5				4.9			
DNC-1a Cert	70	15			4.50	18.0	144	38.0	3				0.96		118	3.6				5.20			
OREAS 13b (4-Acid) Meas		141		54.7						9.87													
OREAS 13b (4-Acid) Cert		133		57						9.0													
OREAS 13b (4-Acid) Meas		135		55.9						9.93													
OREAS 13b (4-Acid) Cert		133		57						9.0													
OREAS 13b (4-Acid) Meas		127		46.4						8.67													
OREAS 13b (4-Acid) Cert		133		57						9.0													
OREAS 904 (4 ACID) Meas	3.0	24.7	17.0	102	143	33.7	28.5	153		2.18	0.2	3	1.1		221	44.5	90.2						1.0
OREAS 904 (4 ACID) Cert	3.30	26.3	16.7	98.0	130	31.5	27.2	171		2.12	0.220	2.83	1.48		194	43.2	86.0						1.00
OREAS 904 (4 ACID) Meas	2.9	33.1	16.4	101	139	33.0	28.2	172		2.36	0.2	3	1.4		204	42.2	85.0						0.9
OREAS 904 (4 ACID) Cert	3.30	26.3	16.7	98.0	130	31.5	27.2	171		2.12	0.220	2.83	1.48		194	43.2	86.0						1.00
SBC-1 Meas	194	25.0	25.4	129	29.4	185	120	11.6	2.25			3	0.9		674	46.5	96.3	10.8	44.4	9.1	7.4	1.0	6.1
SBC-1 Cert	186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40			3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
SBC-1 Meas	191	24.1	25.7	133	29.1	178	120	13.7	2.06			3	1.0		720	48.8	102	11.6	46.7	10.4	7.7	1.0	6.3
SBC-1 Cert	186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40			3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
SBC-1 Meas	189	25.1	26.9	115	27.6	173	116	15.1	2.23			3	1.0		673	40.0	95.9	11.1	42.8	8.7	7.3	1.0	6.2
SBC-1 Cert	186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40			3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
OREAS 45d (4-Acid) Meas	41.8	21.2	8.3	44.0	12.2	35.3	97	0.9	0.42	< 0.1	< 1	< 0.1			195	17.2	38.4	4.0	14.7	2.9	2.3	0.4	2.4
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82			183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 45d (4-Acid) Meas	43.8	22.7	8.2	44.6	12.2	32.4	77	0.3	0.34	< 0.1	< 1	< 0.1			183	17.3	39.1	4.1	14.9	2.9	2.4	0.4	2.3
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82			183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 45d (4-Acid) Meas	43.1	22.8	12.5	43.4	11.7	33.1	135	5.0	0.97	0.1	1	0.2			189	16.5	37.4	4.0	14.5	3.2	2.4	0.4	2.3
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82			183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 45d (4-Acid) Meas	43.7	19.4	11.3	35.1	10.2	29.5	132	4.5	0.91	< 0.1	1	0.2			181	14.8	34.5	3.6	14.0	2.9	2.5	0.4	2.3
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82			183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 96 (4 Acid) Meas	34.2	425										57	2.9										

Analyte Symbol	Se	Zn	Ga	As	Pb	V	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 96 (4 Acid) Cert	40.7	457											65.5	5.09									
OREAS 96 (4 Acid) Meas	40.1	456											62	3.8									
OREAS 96 (4 Acid) Cert	40.7	457											65.6	5.09									
OREAS 923 (4 Acid) Meas	7.0	370	19.5	8.6	166	27.7	43.5	134	14.9	1.10	0.5	14	1.3		367	42.2	84.2	10.0	37.0	6.3	5.5	0.9	5.1
OREAS 923 (4 Acid) Cert	6.54	345	20.3	7.61	166	26.4	43.0	116	14.1	0.930	0.520	13.3	1.29		434	42.2	83.0	9.58	35.4	6.64	5.73	0.850	5.05
OREAS 923 (4 Acid) Meas	7.3	352	19.7	9.0	162	26.8	43.7	123	14.2	1.10	0.5	13	1.3		384	40.8	82.0	9.7	35.2	6.6	5.4	0.8	4.7
OREAS 923 (4 Acid) Cert	6.54	345	20.3	7.61	166	26.4	43.0	116	14.1	0.930	0.520	13.3	1.29		434	42.2	83.0	9.58	35.4	6.64	5.73	0.850	5.05
OREAS 621 (4 Acid) Meas	6.3	> 10000	26.5	75.6	86.1	11.9	60.6	168	9.1	14.2	1.8	5	18.6			16.1	44.0						0.5
OREAS 621 (4 Acid) Cert	5.64	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6						0.460
OREAS 621 (4 Acid) Meas	5.1	> 10000	24.4	70.9	67.6	11.0	66.7	175	8.7	13.1	1.5	5	25.6			18.4	43.5						0.4
OREAS 621 (4 Acid) Cert	5.64	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6						0.460
OREAS 621 (4 Acid) Meas	5.0	> 10000	24.1	70.6	77.8	11.3	64.1	175	9.1	13.9	1.8	5	18.8			16.9	45.9						0.4
OREAS 621 (4 Acid) Cert	5.64	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6						0.460
OREAS 522 (4 Acid) Meas	2.1	31.2	15.9	37.8	81.5	14.8	113	113	3.0	199	0.2	9	2.8	0.2		76.1	109	9.0	27.7	4.0	4.2	0.6	3.5
OREAS 522 (4 Acid) Cert	2.74	30.2	16.0	490	82.0	18.5	199	112	5.66	206	0.230	9.32	7.93	1.14		171	148	9.76	27.2	4.17	3.87	0.590	3.24
OREAS 522 (4 Acid) Meas	2.7	32.5	15.8	421	80.7	18.6	88.3	113	4.7	207	0.2	9	4.5	0.5		51.7	83.8	8.0	26.2	3.4	3.7	0.5	3.3
OREAS 522 (4 Acid) Cert	2.74	30.2	16.0	490	82.0	18.5	199	112	5.66	206	0.230	9.32	7.93	1.14		171	148	9.76	27.2	4.17	3.87	0.590	3.24
OREAS 522 (4 Acid) Meas	2.3	31.8	18.2	414	82.7	18.3	98.1	130	3.5	229	0.2	9	3.0	0.2		69.3	97.4	8.1	26.6	4.2	4.2	0.5	3.4
OREAS 522 (4 Acid) Cert	2.74	30.2	16.0	490	82.0	18.5	199	112	5.66	206	0.230	9.32	7.93	1.14		171	148	9.76	27.2	4.17	3.87	0.590	3.24
OREAS 522 (4 Acid) Meas	2.5	40.6	18.4	500	87.1	19.1	85.1	144	5.9	257	0.2	9	5.0	0.5		53.1	81.7	7.9	26.4	3.8	4.2	0.5	3.4
OREAS 522 (4 Acid) Cert	2.74	30.2	16.0	490	82.0	18.5	199	112	5.66	206	0.230	9.32	7.93	1.14		171	148	9.76	27.2	4.17	3.87	0.590	3.24
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
Orcas E1336 (Fire Assay) Meas																							
Orcas E1336 (Fire Assay) Cert																							
Method Blank	< 0.1	0.8	0.1	0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.19	< 0.1	< 1	< 0.1	0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	0.5	0.1	1.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.3	< 0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.08	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	0.6	0.1	0.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.2	0.4	0.1	0.4	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.2	0.3	0.1	0.4	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.6	0.4	< 0.1	0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

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Report: A20-12866

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank	< 0.1	7.5	0.1	0.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	0.8	0.2	0.4	< 0.2	< 0.1	0.2	< 1	< 0.1	0.09	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.3	1.3	0.2	1.3	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.07	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.5	1.2	< 0.1	0.3	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.06	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.6	< 0.2	< 0.1	0.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.14	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank																							
Method Blank																							
Method Blank																							

QC

Activation Laboratories Ltd.

Report: A20-12866

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Ti	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
SDC-1 Meas	38.5		0.5	3.2		< 0.1	< 0.1		0.67	25.2	15	12.0	2.8	0.0763	0.056	
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas	28.6		0.5	3.2		< 0.1	< 0.1		0.60	23.6	15	11.9	2.6	0.117	0.057	
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas	29.2		0.5	3.3		< 0.1	< 0.1		0.63	25.8		12.2	2.6			
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00		12.00	3.10			
SDC-1 Meas	32.5		0.5	3.3		< 0.1	< 0.1		0.60	23.6		12.2	2.7			
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00		12.00	3.10			
SDC-1 Meas	31.4		0.5	3.3		< 0.1	< 0.1		0.66	23.6		12.1	2.8			
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00		12.00	3.10			
Oreas 72a (4 Acid Digest) Meas	334															1.72
Oreas 72a (4 Acid Digest) Cert	316															1.74
Oreas 72a (4 Acid Digest) Meas	321															1.73
Oreas 72a (4 Acid Digest) Cert	316															1.74
Oreas 72a (4 Acid Digest) Meas	309															
Oreas 72a (4 Acid Digest) Cert	316															
Oreas 72a (4 Acid Digest) Meas	318															
Oreas 72a (4 Acid Digest) Cert	316															
Oreas 72a (4 Acid Digest) Meas	310															
Oreas 72a (4 Acid Digest) Cert	316															
OREAS 101b (4 Acid) Meas	414		2.1	13.2	1.9					22.7		35.5	348	0.341	0.114	
OREAS 101b (4 Acid) Cert	412		2.08	13.9	1.96					23		36.4	387	0.35		
OREAS 101b (4 Acid) Meas	399		1.8	12.7	1.7					21.2		36.9	384	0.333	0.107	
OREAS 101b (4 Acid) Cert	412		2.08	13.9	1.96					23		36.4	387	0.35		
OREAS 101b (4 Acid) Meas	422		1.9	12.6	1.7					22.4		37.2	390			
OREAS 101b (4 Acid) Cert	412		2.08	13.9	1.96					23		36.4	387			
OREAS 101b (4 Acid) Meas	424		2.0	12.6	1.7					21.8		37.7	396			
OREAS 101b (4 Acid) Cert	412		2.08	13.9	1.96					23		36.4	387			
OREAS 98 (4 Acid) Meas	> 10000									301						16.4
OREAS 98 (4 Acid) Cert	14800									345						15.5
OREAS 98 (4 Acid) Meas	> 10000									305						
OREAS 98 (4 Acid) Cert	14800									345						
OREAS 98 (4 Acid) Meas	> 10000									332						
OREAS 98 (4 Acid) Cert	14800									345						

QC

Activation Laboratories Ltd.

Report: A20-12866

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Hf	Ti	Pb	Sc	Th	U	Pi	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Acid) Cert	0.0															
OREAS 98 (4 Acid) Meas	> 10000									328						
OREAS 98 (4 Acid) Cert	14800									345						
OREAS 98 (4 Acid) Meas	> 10000									328						
OREAS 98 (4 Acid) Cert	14800									345						
DNC-1a Meas	96.6			1.8						5.8	31			0.274		
DNC-1a Cert	100			2.0						6.3	31			0.29		
DNC-1a Meas	91.5			1.9						5.9						
DNC-1a Cert	100			2.0						6.3						
OREAS 13a (4-Acid) Meas	2310															1.19
OREAS 13b (4 Acid) Cert	2327.0															1.2
OREAS 13b (4-Acid) Meas	2070															
OREAS 13b (4 Acid) Cert	2327.0															
OREAS 13b (4-Acid) Meas	2160															
OREAS 13b (4-Acid) Cert	2327.0															
OREAS 904 (4 ACID) Meas	5970	0.1		3.3	0.5	0.2	1.2		0.57	11.1	11	15.2	8.9		0.087	0.06
OREAS 904 (4 ACID) Cert	6120	0.180		3.14	0.470	0.540	2.12		0.520	10.6	11.2	14.3	8.43		0.0980	0.0630
OREAS 904 (4 ACID) Meas	6010	< 0.1		3.0	0.5	0.9	2.8		0.54	10.8		15.1	8.8			
OREAS 904 (4 ACID) Cert	6120	0.180		3.14	0.470	0.540	2.12		0.520	10.6		14.3	8.43			
SBC-1 Meas	32.7		0.5	3.3	0.4	0.6	1.3		0.87	34.0	20	14.4	5.2	0.487		
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
SBC-1 Meas	29.1		0.5	3.3	0.5	1.0	1.6		0.84	33.8		15.7	5.5			
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0		15.8	5.76			
SBC-1 Meas	29.6		0.5	3.1	0.4	1.1	1.5		0.92	38.5		12.2	5.1			
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0		15.8	5.76			
OREAS 45d (4-Acid) Meas	380			1.5	0.2	< 0.1	< 0.1		0.25	21.9	54	15.1	2.8	0.244	0.036	0.04
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 45d (4-Acid) Meas	386			1.4	0.2	< 0.1	< 0.1		0.25	21.6		15.2	2.8			
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8		14.5	2.63			
OREAS 45d (4-Acid) Meas	384			1.5	0.2	0.2	0.2		0.26	22.1		14.8	2.9			
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8		14.5	2.63			
OREAS 45d (4-Acid) Meas	367			1.4	0.2	0.2	0.2		0.26	21.0		14.3	2.7			
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8		14.5	2.63			
OREAS 96 (4 Acid) Meas	> 10000									96.7						

Analytic Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Ti	Pb	Sc	Th	U	Pt	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
OREAS 96 (4 Acid) Cert	33300									101						
OREAS 96 (4 Acid) Meas	> 10000									99.7						
OREAS 96 (4 Acid) Cert	39300									101						
OREAS 923 (4 Acid) Meas	4300		0.4	2.6	0.4	1.2	4.9		0.92	84.2	14	16.7	3.2	0.422	0.067	0.73
OREAS 923 (4 Acid) Cert	4230		0.410	2.57	0.390	1.11	4.85		0.860	83.0	13.1	16.5	3.06	0.405	0.0630	0.691
OREAS 923 (4 Acid) Meas	4280		0.4	2.5	0.4	1.2	5.1		0.94	83.2		16.6	3.2			
OREAS 923 (4 Acid) Cert	4230		0.410	2.57	0.390	1.11	4.85		0.860	83.0		16.5	3.06			
OREAS 621 (4 Acid) Meas	3620			1.0	0.2		1.7		2.30	> 5000	7	4.2	3.0	0.183	0.036	4.56
OREAS 621 (4 Acid) Cert	3630			0.990	0.140		2.35		1.96	13600	6.24	7.48	2.83	0.149	0.0359	4.48
OREAS 621 (4 Acid) Meas	3590			1.0	0.2		2.0		1.96	> 5000		5.5	2.7			
OREAS 621 (4 Acid) Cert	3630			0.990	0.140		2.35		1.96	13600		7.48	2.83			
OREAS 621 (4 Acid) Meas	3630			1.0	0.1		1.9		2.11	> 5000		4.5	2.9			
OREAS 621 (4 Acid) Cert	3630			0.990	0.140		2.35		1.96	13600		7.48	2.83			
OREAS 522 (4 Acid) Meas	8770		0.3	2.0	0.3	0.1	69.3	0.100	0.29	6.4	11	2.7	43.3	0.346	0.087	2.39
OREAS 522 (4 Acid) Cert	9160		0.280	1.97	0.310	0.440	135	0.0980	0.290	12.5	10.9	7.53	42.2	0.344	0.0890	2.50
OREAS 522 (4 Acid) Meas	8340		0.3	1.9	0.3	0.3	111	0.101	0.29	7.0		2.1	43.3			
OREAS 522 (4 Acid) Cert	9160		0.280	1.97	0.310	0.440	135	0.0980	0.290	12.5		7.53	42.2			
OREAS 522 (4 Acid) Meas	9090		0.3	2.0	0.3	0.1	84.3	0.086	0.29	6.5		2.1	43.8			
OREAS 522 (4 Acid) Cert	9160		0.280	1.97	0.310	0.440	135	0.0980	0.290	12.5		7.53	42.2			
OREAS 522 (4 Acid) Meas	9720		0.3	2.1	0.3	0.3	124	0.088	0.29	7.5		1.9	45.3			
OREAS 522 (4 Acid) Cert	9160		0.280	1.97	0.310	0.440	135	0.0980	0.290	12.5		7.53	42.2			
OREAS 238 (Fire Assay) Meas																
OREAS 238 (Fire Assay) Cert																
Oreas E1336 (Fire Assay) Meas																
Oreas E1336 (Fire Assay) Cert																
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	0.6	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	0.8	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01

QC

Activation Laboratories Ltd.

Report: A20-12866

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Rc	Ti	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Method Blank	14.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	0.7		< 0.1	< 0.1			
Method Blank	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.001	< 0.05	1.2	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01
Method Blank	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	1.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	1.9	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank											< 1			0.0005	< 0.001	< 0.01
Method Blank											< 1			0.0005	< 0.001	< 0.01
Method Blank																



Report No.: A20-12867
Report Date: 14-Dec-20
Date Submitted: 16-Oct-20
Your Reference:

Todd Thurier
136 Elm Crescent Box 1318
Atikokan Ontario
Canada

ATTN: Todd Thurier

CERTIFICATE OF ANALYSIS

1 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-11-09 16:35:20

REPORT A20-12867

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

Notes:

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

CERTIFIED BY:

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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Report No.: A20-12867
 Report Date: 14-Dec-20
 Date Submitted: 16-Oct-20
 Your Reference:

Todd Thurier
 136 Elm Crescent Box 1318
 Atikokan Ontario
 Canada

ATTN: Todd Thurier

CERTIFICATE OF ANALYSIS

1 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
UT-6	QOP Total/QOP Ultratrace- 4acid Digest (Total Digestion ICPOES/ICPMS)	2020-11-24 15:29:28

REPORT A20-12867

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Notes:

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

CERTIFIED BY:



Emmanuel Esemé, Ph.D.
 Quality Control Coordinator

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Results

Activation Laboratories Ltd.

Report: A20-12867

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Pb	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Fu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
1021707	15	13.3	1.19	0.86	4.68	1.25	0.82	1.5	45	53	2090	18.6	1.8	50	39.8	0.8	0.9	0.3	0.89	1.35	21.7	0.67	0.33

Results

Activation Laboratories Ltd.

Report: A20-12867

Analyte Symbol	Sc	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
1021707	1.0	677	9.5	2.8	52.9	8.1	184	73	3.3	2.16	0.2	< 1	< 0.1	0.2	247	14.8	29.2	3.2	12.4	2.4	2.1	0.3	1.6

Results

Activation Laboratories Ltd.

Report: A20-12867

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Ti	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
1021707	298	0.1	0.1	1.0	0.2	0.3	0.7	< 0.001	0.46	8.0	7	4.7	0.9	0.139	0.037	1.09

QC

Activation Laboratories Ltd.

Report: A20-12867

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Bc	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
SDC-1 Meas		37.0	1.57	1.04	9.19	2.76	0.98		34	48	866	4.79	1.0	10	35.0	3.6	2.5	1.3		4.11	17.5	1.56	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
SDC-1 Meas		33.5	1.53	1.01	8.20	2.47	0.97		26	51	869	4.98	0.7	40	34.8	3.3	2.6	1.1		3.85	17.6	1.34	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
SDC-1 Meas		34.0	1.52	1.01	7.92	2.54	0.99		30	45	841	4.73	0.8	90	33.5	3.6	2.9	1.2		4.04	17.7	1.42	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
SDC-1 Meas		34.0	1.57	1.02	8.53	2.66	1.02		35	51	894	4.96	0.9	90	36.1	3.4	2.7	1.2		4.03	17.7	1.42	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
SDC-1 Meas		36.7	1.68	1.02	8.37	2.72	1.10		32	49	833	4.75	0.9	60	35.2	3.6	3.1	1.2		3.85	17.4	1.48	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
Oreas 72a (4 Acid Digest) Meas										253		9.20			> 5000							153	
Oreas 72a (4 Acid Digest) Cert										228		9.63			6930.00							157	
Oreas 72a (4 Acid Digest) Meas										192		10.4			> 5000							161	
Oreas 72a (4 Acid Digest) Cert										228		9.63			6930.00							157	
Oreas 72a (4 Acid Digest) Meas										270		9.65			> 5000							152	
Oreas 72a (4 Acid Digest) Cert										228		9.63			6930.00							157	
Oreas 72a (4 Acid Digest) Meas										186		9.35			> 5000							155	
Oreas 72a (4 Acid Digest) Cert										228		9.63			6930.00							157	
Oreas 72a (4 Acid Digest) Meas										182		9.56			> 5000							157	
Oreas 72a (4 Acid Digest) Cert										228		9.63			6930.00							157	
OREAS 101b (4 Acid) Meas				1.23		2.35			77		913	10.2			8.8	14.1		4.9			43.9	7.54	
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7			8.2	15		5.2			45	8.1	
OREAS 101b (4 Acid) Meas				1.21		2.22			72		947	10.7			8.6	13.3		4.8			44.5	6.31	
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7			8.2	15		5.2			45	8.1	
OREAS 101b (4 Acid) Meas				1.15		1.75			69		882	10.3			8.5	13.8		4.7			44.4	6.73	
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7			8.2	15		5.2			45	8.1	
OREAS 101b (4 Acid) Meas				1.22		2.29			70		953	10.9			8.9	14.2		4.8			45.5	7.08	
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7			8.2	15		5.2			45	8.1	
OREAS 98 (4 Acid) Meas																			41.8		114		85.6
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
OREAS 98 (4 Acid) Meas																			41.5		113		86.6
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
OREAS 98 (4 Acid) Meas																			49.3		130		96.6
OREAS 98 (4 Acid) Cert																			45.1		121		97.2

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Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Pb	Hg	Ni	Er	Be	Hf	Ag	Cs	Co	Eu	Pb		
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS		
Acid) Cert																									
OREAS 98 (4 Acid) Meas																			44.6		130		97.1		
OREAS 98 (4 Acid) Cert																			45.1		121		97.2		
OREAS 98 (4 Acid) Meas																			44.1		128		97.6		
OREAS 98 (4 Acid) Cert																			45.1		121		97.2		
DNC-1a Meas		4.5	1.34				7.87		145	157		6.77				252						56.8	0.49		
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97				247						57	0.59		
DNC-1a Meas		4.7	1.48				7.88		149	152		6.84				259						56.4	0.53		
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97				247						57	0.59		
OREAS 13b (4-Acid) Meas									> 5000						2130				0.93		78.9				
OREAS 13b (4-Acid) Cert									8650.00						2247.000				0.86		75				
OREAS 13b (4-Acid) Meas									> 5000						2020				0.91		74.3				
OREAS 13b (4-Acid) Cert									8650.00						2247.000				0.86		75				
OREAS 13b (4-Acid) Meas									> 5000						2180				0.82		69.8				
OREAS 13b (4-Acid) Cert									8650.00						2247.000				0.86		75				
OREAS 904 (4 Acid) Meas		16.7	0.03	0.61	6.99	3.39	0.04		81	62	431	6.85	4.3		43.1		7.2		0.55	3.84	85.7		4.05		
OREAS 904 (4 Acid) Cert		16.7	0.0340	0.556	6.30	3.31	0.0460		76.0	54.0	410	6.68	5.00		40.1		7.86		0.551	3.79	83.0		4.05		
OREAS 904 (4 Acid) Meas		16.8	0.03	0.57	6.89	3.24	0.04		79	57	399	6.37	4.8		40.3		7.1		0.64	3.84	82.4		3.92		
OREAS 904 (4 Acid) Cert		16.7	0.0340	0.556	6.30	3.31	0.0460		76.0	54.0	410	6.68	5.00		40.1		7.86		0.551	3.79	83.0		4.05		
SBC-1 Meas		163							0.4	221	81				3.0		85.9	3.2	3.1	1.1		7.85	21.8	1.58	0.63
SBC-1 Cert		163							0.40	220.0	109				3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
SBC-1 Meas		159							0.3	216	95				3.2		83.1	3.5	2.9	1.2		8.17	21.6	1.67	0.63
SBC-1 Cert		163							0.40	220.0	109				3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
SBC-1 Meas		163							0.4	221	107				3.4		81.8	3.3	3.1	1.2		7.31	23.0	1.62	0.69
SBC-1 Cert		163							0.40	220.0	109				3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
OREAS 45d (4-Acid) Meas		22.8	0.10	0.22	8.39	0.38	0.19		129	527	485	14.6	2.7		233	1.5	0.7	0.5		3.91	29.6	0.63	0.31		
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31		
OREAS 45d (4-Acid) Meas		22.5	0.08	0.22	9.18	0.40	0.18		109	509	473	14.1	2.1		238	1.3	1.0	0.5		3.84	28.8	0.63	0.31		
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31		
OREAS 45d (4-Acid) Meas		22.8	0.09	0.23	8.66	0.42	0.17		183	576	491	14.6	3.6		238	1.4	0.9	0.5		4.05	30.3	0.60	0.32		
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31		
OREAS 45d (4-Acid) Meas		22.1	0.09	0.18	7.67	0.40	0.19		175	576	474	14.1	3.6		215	1.3	0.8	0.5		3.48	28.5	0.55	0.33		
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31		
OREAS 96 (4 Acid) Meas																			9.65		47.9		27.1		

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Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Pb	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 96 (4 Acid) Cert																			11.5				26.3
OREAS 96 (4 Acid) Meas																			11.0			49.9	28.7
OREAS 96 (4 Acid) Cert																			11.5			49.9	26.3
OREAS 923 (4 Acid) Meas		33.1	0.32	1.74	7.81	2.34	0.47	0.4	94	79	964	6.29	3.8		36.5	2.9	2.2	1.0	1.83	6.91	23.5	1.36	22.7
OREAS 923 (4 Acid) Cert		31.4	0.324	1.69	7.29	2.51	0.473	0.420	91.0	71.0	950	6.43	3.42		35.8	2.86	2.42	0.960	1.60	6.70	23.1	1.37	21.4
OREAS 923 (4 Acid) Meas		32.1	0.32	1.68	7.96	2.44	0.46	0.5	92	79	957	6.35	3.6		37.0	2.7	2.2	0.9	1.72	6.91	23.2	1.30	18.6
OREAS 923 (4 Acid) Cert		31.4	0.324	1.69	7.29	2.51	0.473	0.420	91.0	71.0	950	6.43	3.42		35.8	2.86	2.42	0.960	1.60	6.70	23.1	1.37	21.4
OREAS 621 (4 Acid) Meas		15.0	1.43	0.47	6.97	2.12	2.01	305	36	33	524	3.68	4.4		26.2		1.6		63.1	3.37	29.4		3.97
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41		26.2		1.69		69.0	3.28	29.3		3.93
OREAS 621 (4 Acid) Meas		13.8	1.35	0.41	6.50	1.69	1.89	294	33	33	529	3.90	4.3		28.1		1.7		62.1	3.09	28.8		3.78
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41		26.2		1.69		69.0	3.28	29.3		3.93
OREAS 621 (4 Acid) Meas		14.4	1.42	0.52	6.52	2.04	1.99	266	34	31	506	3.92	4.4		26.2		1.9		64.2	3.20	30.5		4.08
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41		26.2		1.69		69.0	3.28	29.3		3.93
OREAS 522 (4 Acid) Meas		16.7	0.60	1.12	3.96	2.48	3.68		162	41	3870	23.5	3.0		68.0	2.0	0.8	0.7	1.26	0.59	> 500	1.92	9.01
OREAS 522 (4 Acid) Cert		16.2	0.633	1.12	3.95	2.83	3.65		164	29.6	3970	24.6	2.96		70.0	1.97	0.700	0.660	1.31	0.640	550	1.88	8.72
OREAS 522 (4 Acid) Meas		15.8	0.53	1.03	3.78	2.51	3.40		162	41	3760	23.2	3.0		62.3	1.9	0.9	0.7	1.24	0.61	488	1.80	9.00
OREAS 522 (4 Acid) Cert		16.2	0.633	1.12	3.95	2.83	3.65		164	29.6	3970	24.6	2.96		70.0	1.97	0.700	0.660	1.31	0.640	550	1.88	8.72
OREAS 522 (4 Acid) Meas		15.8	0.62	1.15	3.98	2.85	3.60		163	41	4180	24.6	2.9		70.3	2.0	0.8	0.7	1.32	0.61	> 500	1.75	8.71
OREAS 522 (4 Acid) Cert		16.2	0.633	1.12	3.95	2.83	3.65		164	29.6	3970	24.6	2.96		70.0	1.97	0.700	0.660	1.31	0.640	550	1.88	8.72
OREAS 522 (4 Acid) Meas		16.7	0.66	1.18	4.08	3.12	4.07		180	45	4390	26.5	3.1		77.1	2.1	0.8	0.7	1.41	0.72	> 500	1.74	8.97
OREAS 522 (4 Acid) Cert		16.2	0.633	1.12	3.95	2.83	3.65		164	29.6	3970	24.6	2.96		70.0	1.97	0.700	0.660	1.31	0.640	550	1.88	8.72
OREAS 238 (Fire Assay) Meas	3100																						
OREAS 238 (Fire Assay) Cert	3030																						
Oreas E1336 (Fire Assay) Meas	500																						
Oreas E1336 (Fire Assay) Cert	510																						
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	15	3	< 0.01	< 0.1	80	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	2	10	7	< 0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	4	2	< 0.01	< 0.1	30	< 0.5	< 0.1	0.2	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	4	2	< 0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	7	7	< 0.01	< 0.1	50	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	5	5	< 0.01	< 0.1	50	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	4	6	< 0.01	< 0.1	20	< 0.5	< 0.1	0.5	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02

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Analyte Symbol	Lu	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Ni	Hg	Ni	Er	Se	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	5	6	< 0.01	< 0.1	70	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	3	5	5	< 0.01	< 0.1	110	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	3	6	3	< 0.01	< 0.1	90	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	4	4	< 0.01	< 0.1	60	< 0.5	< 0.1	0.3	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	6	1	< 0.01	< 0.1	20	< 0.5	< 0.1	0.2	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank																							
Method Blank																							
Method Blank		< 5																					

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Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
SDC-1 Meas		100	21.3	0.9	125		182	34	< 0.1				< 1	< 0.1	651	40.0	90.1		40.7	8.9	6.9	1.1	6.3
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00				3.00	0.54	630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		108	20.7	0.2	99.9		179	22	< 0.1				< 1	< 0.1	611	40.1	82.4		38.2	7.3	6.5	0.9	5.5
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00				3.00	0.54	630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		105	20.3	0.2	106		178	29	< 0.1				< 1	< 0.1	627	40.7	87.2		39.7	7.3	6.9	1.0	6.3
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00				3.00	0.54	630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		116	22.4	0.8	112		181	37	0.1				< 1	< 0.1	632	41.8	87.9		40.8	7.4	6.8	0.9	5.9
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00				3.00	0.54	630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		104	21.1	0.4	118		183	29	< 0.1				< 1	< 0.1	680	41.3	93.6		41.6	7.9	7.1	1.0	6.1
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00				3.00	0.54	630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
Oreas 72a (4 Acid Digest) Meas				7.7																			
Oreas 72a (4 Acid Digest) Cert				14.7																			
Oreas 72a (4 Acid Digest) Meas				3.1																			
Oreas 72a (4 Acid Digest) Cert				14.7																			
Oreas 72a (4 Acid Digest) Meas				7.6																			
Oreas 72a (4 Acid Digest) Cert				14.7																			
Oreas 72a (4 Acid Digest) Meas				3.9																			
Oreas 72a (4 Acid Digest) Cert				14.7																			
Oreas 72a (4 Acid Digest) Meas				5.0																			
Oreas 72a (4 Acid Digest) Cert				14.7																			
OREAS 101b (4 Acid) Meas						124				20.6					724	1330	122	348	47.0	36.1	4.8	26.4	
OREAS 101b (4 Acid) Cert						133				20.1					754	1325	127	388	48	40	5.4	27	
OREAS 101b (4 Acid) Meas						122				19.1					749	1250	109	363	50.9	38.3	4.0	24.5	
OREAS 101b (4 Acid) Cert						133				20.1					754	1325	127	388	48	40	5.4	27	
OREAS 101b (4 Acid) Meas						127				18.0					721	1290	119	377	42.7	38.3	4.2	25.4	
OREAS 101b (4 Acid) Cert						133				20.1					754	1325	127	388	48	40	5.4	27	
OREAS 101b (4 Acid) Meas						133				20.1					769	1390	126	396	44.3	37.3	4.1	26.1	
OREAS 101b (4 Acid) Cert						133				20.1					754	1325	127	388	48	40	5.4	27	
OREAS 98 (4 Acid) Meas	178	1260									181	10.5											
OREAS 98 (4 Acid) Cert	158	1360									206	20.1											
OREAS 98 (4 Acid) Meas	175	1260									179	5.8											
OREAS 98 (4 Acid) Cert	158	1360									206	20.1											
OREAS 98 (4 Acid) Meas	166	1440									> 200	12.6											
OREAS 98 (4 Acid) Cert	158	1360									206	20.1											

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Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 98 (4 Acid) Meas	164	1420										193	5.3										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
OREAS 98 (4 Acid) Meas	160	1420										199	5.6										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
DNC-1a Meas		65.2	12.6		1.2	13.7	140	35	1.5					0.7	104	3.0			4.4				
DNC-1a Cert		70	15		4.50	18.0	144	38.0	3					0.96	118	3.6			5.20				
DNC-1a Meas		63.2	12.9		2.9	15.5	145	37	1.4					0.7	106	3.5			4.9				
DNC-1a Cert		70	15		4.50	18.0	144	38.0	3					0.96	118	3.6			5.20				
OREAS 13b (4-Acid) Meas		141		54.7						9.87													
OREAS 13b (4-Acid) Cert		133		57						9.0													
OREAS 13b (4-Acid) Meas		135		55.9						9.93													
OREAS 13b (4-Acid) Cert		133		57						9.0													
OREAS 13b (4-Acid) Meas		127		46.4						8.67													
OREAS 13b (4-Acid) Cert		133		57						9.0													
OREAS 904 (4 ACID) Meas	3.0	24.7	17.0	102	143	33.7	28.5	153		2.18	0.2	3	1.1		221	44.5	90.2						1.0
OREAS 904 (4 ACID) Cert	3.30	26.3	16.7	98.0	130	31.5	27.2	171		2.12	0.220	2.83	1.48		194	43.2	86.0						1.00
OREAS 904 (4 ACID) Meas	2.9	33.1	16.4	101	139	33.0	28.2	172		2.36	0.2	3	1.4		204	42.2	85.0						0.9
OREAS 904 (4 ACID) Cert	3.30	26.3	16.7	98.0	130	31.5	27.2	171		2.12	0.220	2.83	1.48		194	43.2	86.0						1.00
SBC-1 Meas		194	25.0	25.4	129	29.4	185	120	11.6	2.25		3	0.9		674	46.5	96.3	10.8	44.4	9.1	7.4	1.0	6.1
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
SBC-1 Meas		191	24.1	25.7	133	29.1	178	120	13.7	2.06		3	1.0		720	48.8	102	11.6	46.7	10.4	7.7	1.0	6.3
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
SBC-1 Meas		189	25.1	26.9	115	27.6	173	116	15.1	2.23		3	1.0		673	40.0	95.9	11.1	42.8	8.7	7.3	1.0	6.2
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
OREAS 45d (4-Acid) Meas	41.8	21.2	8.3	44.0	12.2	35.3	97	0.9	0.42	< 0.1	< 1	< 0.1		195	17.2	38.4	4.0	14.7	2.9	2.3	0.4	2.4	
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26	
OREAS 45d (4-Acid) Meas	43.8	22.7	8.2	44.6	12.2	32.4	77	0.3	0.34	< 0.1	< 1	< 0.1		183	17.3	39.1	4.1	14.9	2.9	2.4	0.4	2.3	
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26	
OREAS 45d (4-Acid) Meas	43.1	22.8	12.5	43.4	11.7	33.1	135	5.0	0.97	0.1	1	0.2		189	16.5	37.4	4.0	14.5	3.2	2.4	0.4	2.3	
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26	
OREAS 45d (4-Acid) Meas	43.7	19.4	11.3	35.1	10.2	29.5	132	4.5	0.91	< 0.1	1	0.2		181	14.8	34.5	3.6	14.0	2.9	2.5	0.4	2.3	
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26	
OREAS 96 (4 Acid) Meas	34.2	425										57	2.9										

Analyte Symbol	Se	Zn	Ga	As	Pb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 96 (4 Acid) Cert	40.7	457										65.6	5.09										
OREAS 96 (4 Acid) Meas	40.1	456										62	3.8										
OREAS 96 (4 Acid) Cert	40.7	457										65.6	5.09										
OREAS 923 (4 Acid) Meas	7.0	370	19.5	8.6	166	27.7	43.5	134	14.9	1.10	0.5	14	1.3		367	42.2	84.0	1000	37.0	6.3	5.5	0.9	5.1
OREAS 923 (4 Acid) Cert	6.54	345	20.3	7.61	166	26.4	43.0	116	14.1	0.930	0.520	13.3	1.29		434	42.2	83.0	9.58	35.4	6.64	5.73	0.850	5.05
OREAS 923 (4 Acid) Meas	7.3	352	19.7	9.0	162	26.8	43.7	123	14.2	1.10	0.5	13	1.3		384	40.8	82.0	9.7	35.2	6.6	5.4	0.8	4.7
OREAS 923 (4 Acid) Cert	6.54	345	20.3	7.61	166	26.4	43.0	116	14.1	0.930	0.520	13.3	1.29		434	42.2	83.0	9.58	35.4	6.64	5.73	0.850	5.05
OREAS 621 (4 Acid) Meas	6.3	>10000	26.5	75.6	86.1	11.9	60.6	168	9.1	14.2	1.8	5	18.6			16.1	44.0						0.5
OREAS 621 (4 Acid) Cert	5.64	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6						0.460
OREAS 621 (4 Acid) Meas	5.1	>10000	24.4	70.9	67.6	11.0	66.7	175	8.7	13.1	1.5	5	25.6			18.4	43.5						0.4
OREAS 621 (4 Acid) Cert	5.64	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6						0.460
OREAS 621 (4 Acid) Meas	5.0	>10000	24.1	70.6	77.8	11.3	64.1	175	9.1	13.9	1.8	5	18.8			16.9	45.9						0.4
OREAS 621 (4 Acid) Cert	5.64	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6						0.460
OREAS 522 (4 Acid) Meas	2.1	31.2	15.9	378	81.5	18.8	113	113	3.0	199	0.2	9	2.8	0.2		76.1	109	9.0	27.7	4.0	4.2	0.6	3.5
OREAS 522 (4 Acid) Cert	2.74	30.2	16.0	490	82.0	18.5	199	112	5.66	206	0.230	9.32	7.93	1.14		171	148	9.76	27.2	4.17	3.87	0.590	3.24
OREAS 522 (4 Acid) Meas	2.7	32.5	15.8	421	80.7	18.6	88.3	113	4.7	207	0.2	9	4.5	0.5		51.7	83.8	8.0	26.2	3.4	3.7	0.5	3.3
OREAS 522 (4 Acid) Cert	2.74	30.2	16.0	490	82.0	18.5	199	112	5.66	206	0.230	9.32	7.93	1.14		171	148	9.76	27.2	4.17	3.87	0.590	3.24
OREAS 522 (4 Acid) Meas	2.3	31.8	18.2	414	82.7	18.3	98.1	130	3.5	229	0.2	9	3.0	0.2		69.3	97.4	8.1	26.6	4.2	4.2	0.5	3.4
OREAS 522 (4 Acid) Cert	2.74	30.2	16.0	490	82.0	18.5	199	112	5.66	206	0.230	9.32	7.93	1.14		171	148	9.76	27.2	4.17	3.87	0.590	3.24
OREAS 522 (4 Acid) Meas	2.5	40.6	18.4	500	87.1	19.1	85.1	144	5.9	257	0.2	9	5.0	0.5		53.1	81.7	7.9	26.4	3.8	4.2	0.5	3.4
OREAS 522 (4 Acid) Cert	2.74	30.2	16.0	490	82.0	18.5	199	112	5.66	206	0.230	9.32	7.93	1.14		171	148	9.76	27.2	4.17	3.87	0.590	3.24
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
Oras E1336 (Fire Assay) Meas																							
Oras E1336 (Fire Assay) Cert																							
Method Blank	< 0.1	0.8	0.1	0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.19	< 0.1	< 1	< 0.1	0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	0.5	0.1	1.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.3	< 0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.08	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	0.6	0.1	0.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.2	0.4	0.1	0.4	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.2	0.3	0.1	0.4	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.6	0.4	< 0.1	0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

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Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank	< 0.1	7.5	0.1	0.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	0.8	0.2	0.4	< 0.2	< 0.1	0.2	< 1	< 0.1	0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.3	1.3	0.2	1.3	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.07	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.5	1.2	< 0.1	0.3	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.06	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.6	< 0.2	< 0.1	0.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.14	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank																							
Method Blank																							
Method Blank																							

Analytic Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Ti	Pb	Sc	Th	U	Tl	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
SDC-1 Meas	38.5		0.5	3.2		< 0.1	< 0.1		0.67	25.2	15	12.0	2.8	0.0763	0.056	
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas	28.6		0.5	3.2		< 0.1	< 0.1		0.60	23.6	15	11.9	2.6	0.117	0.057	
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas	29.2		0.5	3.3		< 0.1	< 0.1		0.63	25.8		12.2	2.6			
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00		12.00	3.10			
SDC-1 Meas	32.6		0.5	3.3		< 0.1	< 0.1		0.60	23.6		12.2	2.7			
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00		12.00	3.10			
SDC-1 Meas	31.4		0.5	3.3		< 0.1	< 0.1		0.66	23.6		12.1	2.8			
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00		12.00	3.10			
Oreas 72a (4 Acid Digest) Meas	334															1.72
Oreas 72a (4 Acid Digest) Cert	316															1.74
Oreas 72a (4 Acid Digest) Meas	321															1.73
Oreas 72a (4 Acid Digest) Cert	316															1.74
Oreas 72a (4 Acid Digest) Meas	309															
Oreas 72a (4 Acid Digest) Cert	316															
Oreas 72a (4 Acid Digest) Meas	318															
Oreas 72a (4 Acid Digest) Cert	316															
Oreas 72a (4 Acid Digest) Meas	310															
Oreas 72a (4 Acid Digest) Cert	316															
OREAS 101b (4 Acid) Meas	414		2.1	13.2	1.9					22.7		35.5	348	0.341	0.114	
OREAS 101b (4 Acid) Cert	412		2.08	13.9	1.96					23		36.4	387	0.35		
OREAS 101b (4 Acid) Meas	399		1.8	12.7	1.7					21.2		36.9	384	0.333	0.107	
OREAS 101b (4 Acid) Cert	412		2.08	13.9	1.96					23		36.4	387	0.35		
OREAS 101b (4 Acid) Meas	422		1.9	12.6	1.7					22.4		37.2	390			
OREAS 101b (4 Acid) Cert	412		2.08	13.9	1.96					23		36.4	387			
OREAS 101b (4 Acid) Meas	424		2.0	12.6	1.7					21.8		37.7	396			
OREAS 101b (4 Acid) Cert	412		2.08	13.9	1.96					23		36.4	387			
OREAS 98 (4 Acid) Meas	> 10000									301						16.4
OREAS 98 (4 Acid) Cert	14800									345						15.5
OREAS 98 (4 Acid) Meas	> 10000									305						
OREAS 98 (4 Acid) Cert	14800									345						
OREAS 98 (4 Acid) Meas	> 10000									332						
OREAS 98 (4 Acid) Cert	14800									345						

QC

Activation Laboratories Ltd.

Report: A20-12867

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Acid) Cert	0.0															
OREAS 98 (4 Acid) Meas	> 10000									328						
OREAS 98 (4 Acid) Cert	14800									345						
OREAS 98 (4 Acid) Meas	> 10000									328						
OREAS 98 (4 Acid) Cert	14800									345						
DNC-1a Meas	96.6			1.8						5.8	31			0.274		
DNC-1a Cert	100			2.0						6.3	31			0.29		
DNC-1a Meas	91.5			1.9						5.9						
DNC-1a Cert	100			2.0						6.3						
OREAS 13b (4-Acid) Meas	2310															1.19
OREAS 13b (4-Acid) Cert	2327.0000															1.2
OREAS 13b (4-Acid) Meas	2070															
OREAS 13b (4-Acid) Cert	2327.0000															
OREAS 13b (4-Acid) Meas	2160															
OREAS 13b (4-Acid) Cert	2327.0000															
OREAS 904 (4 ACID) Meas	5970	0.1		3.3	0.5	0.2	1.2		0.57	11.1	11	15.2	8.9		0.087	0.06
OREAS 904 (4 ACID) Cert	6120	0.180		3.14	0.470	0.540	2.12		0.520	10.6	11.2	14.3	8.43		0.0980	0.0630
OREAS 904 (4 ACID) Meas	6010	< 0.1		3.0	0.5	0.9	2.8		0.54	10.8		15.1	8.8			
OREAS 904 (4 ACID) Cert	6120	0.180		3.14	0.470	0.540	2.12		0.520	10.6		14.3	8.43			
SBC-1 Meas	32.7		0.5	3.3	0.4	0.6	1.3		0.87	34.0	20	14.4	5.2	0.487		
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
SBC-1 Meas	29.1		0.5	3.3	0.5	1.0	1.6		0.84	33.8		15.7	5.5			
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0		15.8	5.76			
SBC-1 Meas	29.6		0.5	3.1	0.4	1.1	1.5		0.92	38.5		12.2	5.1			
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0		15.8	5.76			
OREAS 45d (4-Acid) Meas	380			1.5	0.2	< 0.1	< 0.1		0.25	21.9	54	15.1	2.8	0.244	0.036	0.04
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 45d (4-Acid) Meas	386			1.4	0.2	< 0.1	< 0.1		0.25	21.6		15.2	2.8			
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8		14.5	2.63			
OREAS 45d (4-Acid) Meas	384			1.5	0.2	0.2	0.2		0.26	22.1		14.8	2.9			
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8		14.5	2.63			
OREAS 45d (4-Acid) Meas	367			1.4	0.2	0.2	0.2		0.26	21.0		14.3	2.7			
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8		14.5	2.63			
OREAS 96 (4 Acid) Meas	> 10000									96.7						

QC

Activation Laboratories Ltd.

Report: A20-12867

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Ti	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
OREAS 96 (4 Acid) Cert	39300									101						
OREAS 96 (4 Acid) Meas	> 10000									99.7						
OREAS 96 (4 Acid) Cert	39300									101						
OREAS 923 (4 Acid) Meas	4300		0.4	2.6	0.4	1.2	4.9		0.92	84.2	14	16.7	3.2	0.422	0.067	0.73
OREAS 923 (4 Acid) Cert	4230		0.410	2.57	0.390	1.11	4.85		0.860	83.0	13.1	16.5	3.06	0.405	0.0630	0.691
OREAS 923 (4 Acid) Meas	4280		0.4	2.5	0.4	1.2	5.1		0.94	83.2		16.6	3.2			
OREAS 923 (4 Acid) Cert	4230		0.410	2.57	0.390	1.11	4.85		0.860	83.0		16.5	3.06			
OREAS 621 (4 Acid) Meas	3620			1.0	0.2		1.7		2.30	> 5000	7	4.2	3.0	0.183	0.036	4.56
OREAS 621 (4 Acid) Cert	3630			0.990	0.140		2.35		1.96	13600	6.24	7.48	2.83	0.149	0.0359	4.48
OREAS 621 (4 Acid) Meas	3590			1.0	0.2		2.0		1.96	> 5000		5.5	2.7			
OREAS 621 (4 Acid) Cert	3630			0.990	0.140		2.35		1.96	13600		7.48	2.83			
OREAS 621 (4 Acid) Meas	3630			1.0	0.1		1.9		2.11	> 5000		4.5	2.9			
OREAS 621 (4 Acid) Cert	3630			0.990	0.140		2.35		1.96	13600		7.48	2.83			
OREAS 522 (4 Acid) Meas	8770		0.3	2.0	0.3	0.1	69.3	0.100	0.29	6.4	11	2.7	43.3	0.346	0.087	2.39
OREAS 522 (4 Acid) Cert	9160		0.280	1.97	0.310	0.440	135	0.0980	0.290	12.5	10.9	7.53	42.2	0.344	0.0890	2.50
OREAS 522 (4 Acid) Meas	8340		0.3	1.9	0.3	0.3	111	0.101	0.29	7.0		2.1	43.3			
OREAS 522 (4 Acid) Cert	9160		0.280	1.97	0.310	0.440	135	0.0980	0.290	12.5		7.53	42.2			
OREAS 522 (4 Acid) Meas	9090		0.3	2.0	0.3	0.1	84.3	0.086	0.29	6.5		2.1	43.8			
OREAS 522 (4 Acid) Cert	9160		0.280	1.97	0.310	0.440	135	0.0980	0.290	12.5		7.53	42.2			
OREAS 522 (4 Acid) Meas	9720		0.3	2.1	0.3	0.3	124	0.088	0.29	7.5		1.9	45.3			
OREAS 522 (4 Acid) Cert	9160		0.280	1.97	0.310	0.440	135	0.0980	0.290	12.5		7.53	42.2			
OREAS 238 (Fire Assay) Meas																
OREAS 238 (Fire Assay) Cert																
Oreas E1336 (Fire Assay) Meas																
Oreas E1336 (Fire Assay) Cert																
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	0.6	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	0.8	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01

QC

Activation Laboratories Ltd.

Report: A20-12867

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Method Blank	14.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	0.7		< 0.1	< 0.1	0.0005		
Method Blank	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.001	< 0.05	1.2	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	1.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	1.9	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank											< 1			0.0005	< 0.001	< 0.01
Method Blank											< 1			0.0005	< 0.001	< 0.01
Method Blank														0.0005		



Report No.: A20-12869
Report Date: 14-Dec-20
Date Submitted: 16-Oct-20
Your Reference:

Todd Thurier
136 Elm Crescent Box 1318
Atikokan Ontario
Canada

ATTN: Todd Thurier

CERTIFICATE OF ANALYSIS

1 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
UT-6	QOP Total/QOP Ultratrace- 4acid Digest (Total Digestion ICPOES/CPMS)	2020-11-24 15:29:28

REPORT A20-12869

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

Notes:

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

CERTIFIED BY:

Emmanuel Eseme, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: A20-12869
Report Date: 14-Dec-20
Date Submitted: 16-Oct-20
Your Reference:

Todd Thurier
136 Elm Crescent Box 1318
Atikokan Ontario
Canada

ATTN: Todd Thurier

CERTIFICATE OF ANALYSIS

1 Rock samples were submitted for analysis.

The following analytical package(s) were requested:	Testing Date:
1A2-50-Tbay QOP AA-Au (Au - Fire Assay AA)	2020-11-09 16:35:20

REPORT A20-12869

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Notes:

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

CERTIFIED BY:



Emmanuel Esemé, Ph.D.
Quality Control Coordinator

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Results

Activation Laboratories Ltd.

Report: A20-12869

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
1021701	15	1.7	0.28	0.06	0.83	0.23	0.13	< 0.1	10	27	233	12.3	0.4	80	119	0.2	0.2	< 0.1	1.18	< 0.05	60.0	0.11	0.15

Results

Activation Laboratories Ltd.

Report: A20-12869

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Tc	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TDMS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TDMS	TD-MS	TD-MS	TD-MS	TD-MS	TDMS	TD-MS	TD-MS	TDMS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
1021701	3.6	10.8	2.1	1.9	6.6	2.0	22.3	16	0.8	1.99	< 0.1	< 1	< 0.1	0.4	18	2.5	5.9	0.7	3.2	0.4	0.5	< 0.1	0.4

Results

Activation Laboratories Ltd.

Report: A20-12869

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
1021701	365	< 0.1	< 0.1	0.2	< 0.1	< 0.1	0.8	< 0.001	0.06	2.3	1	0.3	0.2	0.0350	0.012	7.51

QC

Activation Laboratories Ltd.

Report: A20-12869

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Bc	Ho	Ag	Cs	Cd	Eu	Bi	
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	
SDC-1 Meas		37.0	1.57	1.04	9.19	2.76	0.98			34	48	866	4.79	1.0	10	35.0	3.6	2.5	1.3		4.11	17.5	1.56	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70		
SDC-1 Meas		33.5	1.53	1.01	8.20	2.47	0.97		26	51	869	4.98	0.7	40	34.8	3.3	2.6	1.1		3.85	17.6	1.34		
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70		
SDC-1 Meas		34.0	1.52	1.01	7.92	2.54	0.99		30	45	841	4.73	0.8	90	33.5	3.6	2.9	1.2		4.04	17.7	1.42		
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70		
SDC-1 Meas		34.0	1.57	1.02	8.53	2.66	1.02		35	51	894	4.96	0.9	90	36.1	3.4	2.7	1.2		4.03	17.7	1.42		
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70		
SDC-1 Meas		36.7	1.68	1.02	8.37	2.72	1.10		32	49	833	4.75	0.9	60	35.2	3.6	3.1	1.2		3.85	17.4	1.48		
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70		
Oreas 72a (4 Acid Digest) Meas											253		9.20		> 5000								153	
Oreas 72a (4 Acid Digest) Cert										228		9.63			6930.00									157
Oreas 72a (4 Acid Digest) Meas										192		10.4			> 5000									161
Oreas 72a (4 Acid Digest) Cert										228		9.63			6930.00									157
Oreas 72a (4 Acid Digest) Meas										270		9.65			> 5000									152
Oreas 72a (4 Acid Digest) Cert										228		9.63			6930.00									157
Oreas 72a (4 Acid Digest) Meas										186		9.35			> 5000									155
Oreas 72a (4 Acid Digest) Cert										228		9.63			6930.00									157
Oreas 72a (4 Acid Digest) Meas										182		9.56			> 5000									157
Oreas 72a (4 Acid Digest) Cert										228		9.63			6930.00									157
OREAS 101b (4 Acid) Meas				1.23		2.35			77		913	10.2			8.8	14.1		4.9				43.9	7.54	
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7			8.2	15		5.2				45	8.1	
OREAS 101b (4 Acid) Meas				1.21		2.22			72		947	10.7			8.6	13.3		4.8				44.5	6.31	
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7			8.2	15		5.2				45	8.1	
OREAS 101b (4 Acid) Meas				1.15		1.75			69		882	10.3			8.5	13.8		4.7				44.4	6.73	
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7			8.2	15		5.2				45	8.1	
OREAS 101b (4 Acid) Meas				1.22		2.29			70		953	10.9			8.9	14.2		4.8				45.5	7.08	
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7			8.2	15		5.2				45	8.1	
OREAS 98 (4 Acid) Meas																			41.8			114	85.6	
OREAS 98 (4 Acid) Cert																			45.1			121	97.2	
OREAS 98 (4 Acid) Meas																			41.5			113	86.6	
OREAS 98 (4 Acid) Cert																			45.1			121	97.2	
OREAS 98 (4 Acid) Meas																			49.3			130	96.6	
OREAS 98 (4 Acid) Cert																			45.1			121	97.2	

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Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Pb	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA		TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Acid) Cert																							
OREAS 98 (4 Acid) Meas																			44.6		130		97.1
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
OREAS 98 (4 Acid) Meas																			44.1		128		97.6
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
DNC-1a Meas		4.5	1.34				7.87		145	157		6.77				252					56.8	0.49	
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97				247					57	0.59	
DNC-1a Meas		4.7	1.48				7.88		149	152		6.84				259					56.4	0.53	
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97				247					57	0.59	
OREAS 13b (4-Acid) Meas									> 5000						2130				0.93		78.9		
OREAS 13b (4-Acid) Cert									8650.000						2247.000				0.86		75		
OREAS 13b (4-Acid) Meas									> 5000						2020				0.91		74.3		
OREAS 13b (4-Acid) Cert									8650.000						2247.000				0.86		75		
OREAS 13b (4-Acid) Meas									> 5000						2180				0.82		69.8		
OREAS 13b (4-Acid) Cert									8650.000						2247.000				0.86		75		
OREAS 904 (4 ACID) Meas		16.7	0.03	0.61	6.99	3.39	0.04		81	62	431	6.85	4.3		43.1				0.55	3.84	85.7		4.05
OREAS 904 (4 ACID) Cert		16.7	0.0340	0.556	6.30	3.31	0.0460		76.0	54.0	410	6.68	5.00		40.1				0.551	3.79	83.0		4.05
OREAS 904 (4 ACID) Meas		16.8	0.03	0.57	6.89	3.24	0.04		79	57	399	6.37	4.8		40.3				0.64	3.84	82.4		3.92
OREAS 904 (4 ACID) Cert		16.7	0.0340	0.556	6.30	3.31	0.0460		76.0	54.0	410	6.68	5.00		40.1				0.551	3.79	83.0		4.05
SBC-1 Meas		163						0.4	221	81			3.0		85.9	3.2	3.1	1.1		7.85	21.8	1.58	0.63
SBC-1 Cert		163						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
SBC-1 Meas		159						0.3	216	95			3.2		83.1	3.5	2.9	1.2		8.17	21.6	1.67	0.63
SBC-1 Cert		163						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
SBC-1 Meas		163						0.4	221	107			3.4		81.8	3.3	3.1	1.2		7.31	23.0	1.62	0.69
SBC-1 Cert		163						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
OREAS 45d (4-Acid) Meas		22.8	0.10	0.22	8.39	0.38	0.19		129	527	489	14.6	2.7		233	1.5	0.7	0.5		3.91	29.6	0.63	0.31
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549		14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 45d (4-Acid) Meas		22.5	0.08	0.22	9.18	0.40	0.18		109	509	473	14.1	2.1		238	1.3	1.0	0.5		3.84	28.8	0.63	0.31
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549		14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 45d (4-Acid) Meas		22.8	0.09	0.23	8.66	0.42	0.17		183	576	491	14.6	3.6		238	1.4	0.9	0.5		4.05	30.3	0.60	0.32
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549		14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 45d (4-Acid) Meas		22.1	0.09	0.18	7.67	0.40	0.19		175	576	474	14.1	3.6		215	1.3	0.8	0.5		3.48	28.5	0.55	0.33
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549		14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 96 (4 Acid) Meas																			9.65		47.9		27.1

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Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 95 (4 Acid) Cert																			11.5		49.9		26.3
OREAS 96 (4 Acid) Meas																			11.0		51.8		28.7
OREAS 96 (4 Acid) Cert																			11.5		49.9		26.3
OREAS 923 (4 Acid) Meas		33.1	0.32	1.74	7.81	2.34	0.47	0.4	94	79	964	6.29	3.8		36.5	2.9	2.2	1.0	1.83	6.91	23.5	1.36	22.7
OREAS 923 (4 Acid) Cert		31.4	0.324	1.69	7.29	2.51	0.473	0.420	91.0	71.0	950	6.43	3.42		35.8	2.86	2.42	0.960	1.60	6.70	23.1	1.37	21.4
OREAS 923 (4 Acid) Meas		32.1	0.32	1.68	7.96	2.44	0.46	0.5	92	79	957	6.35	3.6		37.0	2.7	2.2	0.9	1.72	6.91	23.2	1.30	18.6
OREAS 923 (4 Acid) Cert		31.4	0.324	1.69	7.29	2.51	0.473	0.420	91.0	71.0	950	6.43	3.42		35.8	2.86	2.42	0.960	1.60	6.70	23.1	1.37	21.4
OREAS 621 (4 Acid) Meas		15.0	1.43	0.47	6.97	2.12	2.01	305	36	33	524	3.68	4.4		26.2		1.6		63.1	3.37	29.4		3.97
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41		26.2		1.69		69.0	3.28	29.3		3.93
OREAS 621 (4 Acid) Meas		13.8	1.35	0.41	6.50	1.69	1.89	294	33	33	529	3.90	4.3		28.1		1.7		62.1	3.09	28.8		3.78
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41		26.2		1.69		69.0	3.28	29.3		3.93
OREAS 621 (4 Acid) Meas		14.4	1.42	0.52	6.52	2.04	1.99	266	34	31	506	3.92	4.4		26.2		1.9		64.2	3.20	30.5		4.08
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41		26.2		1.69		69.0	3.28	29.3		3.93
OREAS 522 (4 Acid) Meas		16.7	0.60	1.12	3.96	2.48	3.68		162	41	3870	23.5	3.0		68.0	2.0	0.8	0.7	1.26	0.59	> 500	1.92	9.01
OREAS 522 (4 Acid) Cert		16.2	0.633	1.12	3.95	2.83	3.65		164	29.6	3970	24.6	2.96		70.0	1.97	0.700	0.660	1.31	0.640	550	1.88	8.72
OREAS 522 (4 Acid) Meas		15.8	0.53	1.03	3.78	2.51	3.40		162	41	3760	23.2	3.0		62.3	1.9	0.9	0.7	1.24	0.61	488	1.80	9.00
OREAS 522 (4 Acid) Cert		16.2	0.633	1.12	3.95	2.83	3.65		164	29.6	3970	24.6	2.96		70.0	1.97	0.700	0.660	1.31	0.640	550	1.88	8.72
OREAS 522 (4 Acid) Meas		15.8	0.62	1.15	3.98	2.85	3.60		163	41	4180	24.6	2.9		70.3	2.0	0.8	0.7	1.32	0.61	> 500	1.75	8.71
OREAS 522 (4 Acid) Cert		16.2	0.633	1.12	3.95	2.83	3.65		164	29.6	3970	24.6	2.96		70.0	1.97	0.700	0.660	1.31	0.640	550	1.88	8.72
OREAS 522 (4 Acid) Meas		16.7	0.66	1.18	4.08	3.12	4.07		180	45	4390	26.5	3.1		77.1	2.1	0.8	0.7	1.41	0.72	> 500	1.74	8.97
OREAS 522 (4 Acid) Cert		16.2	0.633	1.12	3.95	2.83	3.65		164	29.6	3970	24.6	2.96		70.0	1.97	0.700	0.660	1.31	0.640	550	1.88	8.72
OREAS 238 (Fire Assay) Meas	3100																						
OREAS 238 (Fire Assay) Cert	3030																						
Oreas E1336 (Fire Assay) Meas	500																						
Oreas E1336 (Fire Assay) Cert	510																						
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	15	3	< 0.01	< 0.1	80	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	2	10	7	< 0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	4	2	< 0.01	< 0.1	30	< 0.5	< 0.1	0.2	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	4	2	< 0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	7	7	< 0.01	< 0.1	50	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	5	5	< 0.01	< 0.1	50	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	4	6	< 0.01	< 0.1	20	< 0.5	< 0.1	0.5	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02

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Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	3	5	5	< 0.01	< 0.1	70	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	3	6	3	< 0.01	< 0.1	90	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	4	4	< 0.01	< 0.1	60	< 0.5	< 0.1	0.3	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	6	1	< 0.01	< 0.1	20	< 0.5	< 0.1	0.2	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank																							
Method Blank																							
Method Blank	< 5																						

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Analyte Symbol	So	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
SDC-1 Meas		100	21.3	0.9	125		182	34	< 0.1			< 1	< 0.1		651	40.0	90.1		40.7	8.9	6.9	1.1	6.3
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		108	20.7	0.2	99.9		179	22	< 0.1			< 1	< 0.1		611	40.1	82.4		38.2	7.3	6.5	0.9	5.5
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		105	20.3	0.2	106		178	29	< 0.1			< 1	< 0.1		627	40.7	87.2		39.7	7.3	6.9	1.0	6.3
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		116	22.4	0.8	112		181	37	0.1			< 1	< 0.1		632	41.8	87.9		40.8	7.4	6.8	0.9	5.9
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		104	21.1	0.4	118		183	29	< 0.1			< 1	< 0.1		680	41.3	93.6		41.6	7.9	7.1	1.0	6.1
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
●reas 72a (4 Acid Digest) Meas				7.7																			
●reas 72a (4 Acid Digest) Cert				14.7																			
●reas 72a (4 Acid Digest) Meas				3.1																			
●reas 72a (4 Acid Digest) Cert				14.7																			
●reas 72a (4 Acid Digest) Meas				7.6																			
●reas 72a (4 Acid Digest) Cert				14.7																			
●reas 72a (4 Acid Digest) Meas				3.9																			
●reas 72a (4 Acid Digest) Cert				14.7																			
●reas 72a (4 Acid Digest) Meas				5.0																			
●reas 72a (4 Acid Digest) Cert				14.7																			
OREAS 101b (4 Acid) Meas							124			20.6					724	1330	122	348	47.0	36.1	4.8	26.4	
OREAS 101b (4 Acid) Cert							133			20.1					754	1325	127	388	48	40	5.4	27	
OREAS 101b (4 Acid) Meas							122			19.4					749	1250	109	363	50.9	38.3	4.0	24.5	
OREAS 101b (4 Acid) Cert							133			20.1					754	1325	127	388	48	40	5.4	27	
OREAS 101b (4 Acid) Meas							127			18.0					721	1290	119	377	42.7	38.3	4.2	25.4	
OREAS 101b (4 Acid) Cert							133			20.1					754	1325	127	388	48	40	5.4	27	
OREAS 101b (4 Acid) Meas							133			20.1					769	1390	126	396	44.3	37.3	4.1	26.1	
OREAS 101b (4 Acid) Cert							133			20.1					754	1325	127	388	48	40	5.4	27	
OREAS 98 (4 Acid) Meas		178	1260									181	10.5										
OREAS 98 (4 Acid) Cert		158	1360									206	20.1										
OREAS 98 (4 Acid) Meas		175	1260									179	5.8										
OREAS 98 (4 Acid) Cert		158	1360									206	20.1										
OREAS 98 (4 Acid) Meas		166	1140									> 200	12.6										
OREAS 98 (4 Acid) Cert		158	1360									206	20.1										

QC

Activation Laboratories Ltd.

Report: A20-12869

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Acid) Cert																							
OREAS 98 (4 Acid) Meas	164	1420										193	5.3										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
OREAS 98 (4 Acid) Meas	160	1420										199	5.6										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
DNC-1a Meas		65.2	12.6		1.2	13.7	140	35	1.5				0.7		104	3.0						4.4	
DNC-1a Cert		70	15		4.50	18.0	144	38.0	3				0.96		118	3.6						5.20	
DNC-1a Meas		63.2	12.9		2.9	15.5	145	37	1.4				0.7		106	3.5						4.9	
DNC-1a Cert		70	15		4.50	18.0	144	38.0	3				0.96		118	3.6						5.20	
OREAS 13b (4-Acid) Meas		141		54.7						9.87													
OREAS 13b (4-Acid) Cert		133		57						9.0													
OREAS 13b (4-Acid) Meas		135		55.9						9.93													
OREAS 13b (4-Acid) Cert		133		57						9.0													
OREAS 13b (4-Acid) Meas		127		46.4						8.67													
OREAS 13b (4-Acid) Cert		133		57						9.0													
OREAS 904 (4 ACID) Meas	3.0	24.7	17.0	102	143	33.7	28.5	153		2.18	0.2	3	1.1		221	41.5	90.2						1.0
OREAS 904 (4 ACID) Cert	3.30	26.3	16.7	98.0	130	31.5	27.2	171		2.12	0.220	2.83	1.48		194	43.2	86.0						1.00
OREAS 904 (4 ACID) Meas	2.9	33.1	16.4	101	139	33.0	28.2	172		2.36	0.2	3	1.4		204	42.2	85.0						0.9
OREAS 904 (4 ACID) Cert	3.30	26.3	16.7	98.0	130	31.5	27.2	171		2.12	0.220	2.83	1.48		194	43.2	86.0						1.00
Si3C1 Meas	194	25.0	25.4	129	29.4	185	120	11.6	2.25			3	0.9		674	46.5	96.3	10.8	44.4	9.1	7.4	1.0	6.1
Si3C1 Cert	186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40			3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
SBC-1 Meas	191	24.1	25.7	133	29.1	178	120	13.7	2.06			3	1.0		720	48.8	102	11.6	46.7	10.4	7.7	1.0	6.3
SBC-1 Cert	186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40			3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
SBC-1 Meas	189	25.1	26.9	115	27.6	173	116	15.1	2.23			3	1.0		673	40.0	95.9	11.1	42.8	8.7	7.3	1.0	6.2
SBC-1 Cert	186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40			3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
OREAS 45d (4-Acid) Meas	41.8	21.2	8.3	44.0	12.2	35.3	97	0.9	0.42	< 0.1	< 1	< 0.1		195	17.2	38.4	4.0	14.7	2.9	2.3	0.4	2.4	
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26	
OREAS 45d (4-Acid) Meas	43.8	22.7	8.2	44.6	12.2	32.4	77	0.3	0.34	< 0.1	< 1	< 0.1		183	17.3	39.1	4.1	14.9	2.9	2.4	0.4	2.3	
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26	
OREAS 45d (4-Acid) Meas	43.1	22.8	12.5	43.4	11.7	33.1	135	5.0	0.97	0.1	1	0.2		189	16.5	37.4	4.0	14.5	3.2	2.4	0.4	2.3	
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26	
OREAS 45d (4-Acid) Meas	43.7	19.4	11.3	35.1	10.2	29.5	132	4.5	0.91	< 0.1	1	0.2		181	14.8	34.5	3.6	14.0	2.9	2.5	0.4	2.3	
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26	
OREAS 96 (4 Acid) Meas	34.2	425										57	2.9										

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Analyte Symbol	Sc	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 96 (4 Acid) Cert	40.7	457										65.6	5.09										
OREAS 96 (4 Acid) Meas	40.1	456										62	3.8										
OREAS 96 (4 Acid) Cert	40.7	457										65.6	5.09										
OREAS 923 (4 Acid) Meas	7.0	370	19.5	8.6	166	27.7	43.5	134	14.9	1.10	0.5	14	1.3		367	42.2	84.2	10.0	37.0	6.3	5.5	0.9	5.1
OREAS 923 (4 Acid) Cert	6.54	345	20.3	7.61	166	26.4	43.0	116	14.1	0.930	0.520	13.3	1.29		434	42.2	83.0	9.58	35.4	6.64	5.73	0.850	5.05
OREAS 923 (4 Acid) Meas	7.3	352	19.7	9.0	162	26.8	43.7	123	14.2	1.10	0.5	13	1.3		384	40.8	82.0	9.7	35.2	6.6	5.4	0.8	4.7
OREAS 923 (4 Acid) Cert	6.54	345	20.3	7.61	166	26.4	43.0	116	14.1	0.930	0.520	13.3	1.29		434	42.2	83.0	9.58	35.4	6.64	5.73	0.850	5.05
OREAS 621 (4 Acid) Meas	6.3	>10000	26.5	75.6	86.1	11.9	60.6	168	9.1	14.2	1.8	5	18.6			16.1	44.0						0.5
OREAS 621 (4 Acid) Cert	5.64	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6						0.460
OREAS 621 (4 Acid) Meas	5.1	>10000	24.4	70.9	67.6	11.0	66.7	175	8.7	13.1	1.5	5	25.6			18.4	43.5						0.4
OREAS 621 (4 Acid) Cert	5.64	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6						0.460
OREAS 621 (4 Acid) Meas	5.0	>10000	24.1	70.6	77.8	11.3	64.1	175	9.1	13.9	1.8	5	18.8			16.9	45.9						0.4
OREAS 621 (4 Acid) Cert	5.64	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6						0.460
OREAS 522 (4 Acid) Meas	2.1	31.2	15.9	37.8	81.8	18.8	113	113	3.0	199	0.2	9	2.8	0.2		76.1	109	9.0	27.7	4.0	4.2	0.6	3.5
OREAS 522 (4 Acid) Cert	2.74	30.2	16.0	490	82.0	18.5	199	112	5.66	206	0.230	9.32	7.93	1.14		171	148	9.76	27.2	4.17	3.87	0.590	3.24
OREAS 522 (4 Acid) Meas	2.7	32.5	15.8	42.1	80.7	18.6	88.3	113	4.7	207	0.2	9	4.5	0.5		51.7	83.8	8.0	26.2	3.4	3.7	0.5	3.3
OREAS 522 (4 Acid) Cert	2.74	30.2	16.0	490	82.0	18.5	199	112	5.66	206	0.230	9.32	7.93	1.14		171	148	9.76	27.2	4.17	3.87	0.590	3.24
OREAS 522 (4 Acid) Meas	2.3	31.8	18.2	414	82.7	18.3	98.1	130	3.5	229	0.2	9	3.0	0.2		69.3	97.4	8.1	26.6	4.2	4.2	0.5	3.4
OREAS 522 (4 Acid) Cert	2.74	30.2	16.0	490	82.0	18.5	199	112	5.66	206	0.230	9.32	7.93	1.14		171	148	9.76	27.2	4.17	3.87	0.590	3.24
OREAS 522 (4 Acid) Meas	2.5	40.6	18.4	500	87.1	19.1	85.1	144	5.9	257	0.2	9	5.0	0.5		53.1	81.7	7.9	26.4	3.8	4.2	0.5	3.4
OREAS 522 (4 Acid) Cert	2.74	30.2	16.0	490	82.0	18.5	199	112	5.66	206	0.230	9.32	7.93	1.14		171	148	9.76	27.2	4.17	3.87	0.590	3.24
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
Oras E1336 (Fire Assay) Meas																							
Oras E1336 (Fire Assay) Cert																							
Method Blank	< 0.1	0.8	0.1	0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.19	< 0.1	< 1	< 0.1	0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	0.5	0.1	1.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.3	< 0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.08	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	0.6	0.1	0.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.2	0.4	0.1	0.4	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.2	0.3	0.1	0.4	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.6	0.4	< 0.1	0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

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Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank	< 0.1	7.5	0.1	0.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.3	1.3	0.2	1.3	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.07	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.5	1.2	< 0.1	0.3	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.06	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.6	< 0.2	< 0.1	0.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.14	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Cu	Gc	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
SDC-1 Meas	38.5		0.5	3.2		< 0.1	< 0.1		0.67	25.2	15	12.0	2.8	0.0763	0.056	
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas	28.6		0.5	3.2		< 0.1	< 0.1		0.60	23.6	15	11.9	2.6	0.117	0.057	
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas	29.2		0.5	3.3		< 0.1	< 0.1		0.63	25.8		12.2	2.6			
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00		12.00	3.10			
SDC-1 Meas	32.5		0.5	3.3		< 0.1	< 0.1		0.60	23.6		12.2	2.7			
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00		12.00	3.10			
SDC-1 Meas	31.4		0.5	3.3		< 0.1	< 0.1		0.66	23.6		12.1	2.8			
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00		12.00	3.10			
Oreas 72a (4 Acid Digest) Meas	334															1.72
Oreas 72a (4 Acid Digest) Cert	316															1.74
Oreas 72a (4 Acid Digest) Meas	321															1.73
Oreas 72a (4 Acid Digest) Cert	316															1.74
Oreas 72a (4 Acid Digest) Meas	309															
Oreas 72a (4 Acid Digest) Cert	316															
Oreas 72a (4 Acid Digest) Meas	318															
Oreas 72a (4 Acid Digest) Cert	316															
Oreas 72a (4 Acid Digest) Meas	310															
Oreas 72a (4 Acid Digest) Cert	316															
OREAS 101b (4 Acid) Meas	414		2.1	13.2	1.9					22.7		35.5	348	0.341	0.114	
OREAS 101b (4 Acid) Cert	412		2.08	13.9	1.96					23		36.4	387	0.35		
OREAS 101b (4 Acid) Meas	399		1.8	12.7	1.7					21.2		36.9	384	0.333	0.107	
OREAS 101b (4 Acid) Cert	412		2.08	13.9	1.96					23		36.4	387	0.35		
OREAS 101b (4 Acid) Meas	422		1.9	12.6	1.7					22.4		37.2	390			
OREAS 101b (4 Acid) Cert	412		2.08	13.9	1.96					23		36.4	387			
OREAS 101b (4 Acid) Meas	424		2.0	12.6	1.7					21.8		37.7	396			
OREAS 101b (4 Acid) Cert	412		2.08	13.9	1.96					23		36.4	387			
OREAS 98 (4 Acid) Meas	> 10000									301						16.4
OREAS 98 (4 Acid) Cert	14800									345						15.5
OREAS 98 (4 Acid) Meas	> 10000									305						
OREAS 98 (4 Acid) Cert	14800									345						
OREAS 98 (4 Acid) Meas	> 10000									332						
OREAS 98 (4 Acid) Cert	14800									345						

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Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Ti	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Acid) Cert	0.0															
OREAS 98 (4 Acid) Meas	10000									328						
OREAS 98 (4 Acid) Cert	14800									345						
OREAS 98 (4 Acid) Meas	> 10000									328						
OREAS 98 (4 Acid) Cert	14800									345						
DNC-1a Meas	96.6			1.8						5.8	31			0.274		
DNC-1a Cert	100			2.0						6.3	31			0.29		
DNC-1a Meas	91.5			1.9						5.9						
DNC-1a Cert	100			2.0						6.3						
OREAS 13b (4-Acid) Meas	2310															1.19
OREAS 13b (4-Acid) Cert	2327.0															1.2
OREAS 13b (4-Acid) Meas	2070															
OREAS 13b (4-Acid) Cert	2327.0															
OREAS 13b (4-Acid) Meas	2160															
OREAS 13b (4-Acid) Cert	2327.0															
OREAS 904 (4 ACID) Meas	5970	0.1		3.3	0.5	0.2	1.2		0.57	11.1	11	15.2	8.9		0.087	0.06
OREAS 904 (4 ACID) Cert	6120	0.180		3.14	0.470	0.540	2.12		0.520	10.6	11.2	14.3	8.43		0.0980	0.0630
OREAS 904 (4 ACID) Meas	6010	< 0.1		3.0	0.5	0.9	2.8		0.54	10.8		15.1	8.8			
OREAS 904 (4 ACID) Cert	6120	0.180		3.14	0.470	0.540	2.12		0.520	10.6		14.3	8.43			
SBC-1 Meas	32.7		0.5	3.3	0.4	0.6	1.3		0.87	34.0	20	14.4	5.2	0.487		
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
SBC-1 Meas	29.1		0.5	3.3	0.5	1.0	1.6		0.84	33.8		15.7	5.5			
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0		15.8	5.76			
SBC-1 Meas	29.6		0.5	3.1	0.4	1.1	1.5		0.92	38.5		12.2	5.1			
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0		15.8	5.76			
OREAS 45d (4-Acid) Meas	380			1.5	0.2	< 0.1	< 0.1		0.25	21.9	54	15.1	2.8	0.244	0.036	0.04
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 45d (4-Acid) Meas	386			1.4	0.2	< 0.1	< 0.1		0.25	21.6		15.2	2.8			
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8		14.5	2.63			
OREAS 45d (4-Acid) Meas	384			1.5	0.2	0.2	0.2		0.26	22.1		14.8	2.9			
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8		14.5	2.63			
OREAS 45d (4-Acid) Meas	367			1.4	0.2	0.2	0.2		0.26	21.0		14.3	2.7			
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8		14.5	2.63			
OREAS 96 (4 Acid) Meas	> 10000									96.7						

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Analyte Symbol	Cu	Ge	Ir	Yb	Lu	Ta	W	Re	Ni	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
OREAS 95 (4 Acid) Cert	39300									101						
OREAS 96 (4 Acid) Meas	> 10000									99.7						
ORFAS 96 (4 Acid) Cert	39300									101						
OREAS 923 (4 Acid) Meas	4300		0.4	2.6	0.4	1.2	4.9		0.92	84.2	14	16.7	3.2	0.422	0.067	0.73
OREAS 923 (4 Acid) Cert	4230		0.410	2.57	0.390	1.11	4.85		0.860	83.0	13.1	16.5	3.06	0.405	0.0630	0.691
OREAS 923 (4 Acid) Meas	4280		0.4	2.5	0.4	1.2	5.1		0.94	83.2		16.6	3.2			
OREAS 923 (4 Acid) Cert	4230		0.410	2.57	0.390	1.11	4.85		0.860	83.0		16.5	3.06			
OREAS 621 (4 Acid) Meas	3620			1.0	0.2		1.7		2.30	> 5000	7	4.2	3.0	0.183	0.036	4.56
OREAS 621 (4 Acid) Cert	3630			0.990	0.140		2.35		1.96	13600	6.24	7.48	2.83	0.149	0.0359	4.48
OREAS 621 (4 Acid) Meas	3590			1.0	0.2		2.0		1.96	> 5000		5.5	2.7			
OREAS 621 (4 Acid) Cert	3630			0.990	0.140		2.35		1.96	13600		7.48	2.83			
OREAS 621 (4 Acid) Meas	3630			1.0	0.1		1.9		2.11	> 5000		4.5	2.9			
OREAS 621 (4 Acid) Cert	3630			0.990	0.140		2.35		1.96	13600		7.48	2.83			
ORFAS 522 (4 Acid) Meas	8770		0.3	2.0	0.3	0.1	69.3	0.100	0.29	6.4	11	2.7	43.3	0.346	0.087	2.39
OREAS 522 (4 Acid) Cert	9160		0.280	1.97	0.310	0.440	135	0.0980	0.290	12.5	10.9	7.53	42.2	0.344	0.0890	2.50
OREAS 522 (4 Acid) Meas	8340		0.3	1.9	0.3	0.3	111	0.101	0.29	7.0		2.1	43.3			
OREAS 522 (4 Acid) Cert	9160		0.280	1.97	0.310	0.440	135	0.0980	0.290	12.5		7.53	42.2			
OREAS 522 (4 Acid) Meas	9090		0.3	2.0	0.3	0.1	84.3	0.086	0.29	6.5		2.1	43.8			
OREAS 522 (4 Acid) Cert	9160		0.280	1.97	0.310	0.440	135	0.0980	0.290	12.5		7.53	42.2			
OREAS 522 (4 Acid) Meas	9720		0.3	2.1	0.3	0.3	124	0.088	0.29	7.5		1.9	45.3			
OREAS 522 (4 Acid) Cert	9160		0.280	1.97	0.310	0.440	135	0.0980	0.290	12.5		7.53	42.2			
OREAS 238 (Fire Assay) Meas																
OREAS 238 (Fire Assay) Cert																
Oreas E1336 (Fire Assay) Meas																
Oreas E1336 (Fire Assay) Cert																
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	0.6	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	0.8	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01

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Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Ti	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Method Blank	14.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	0.7		< 0.1	< 0.1			
Method Blank	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.001	< 0.05	1.2	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01
Method Blank	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	1.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5			< 0.1	< 0.1			
Method Blank	1.9	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5			< 0.1	< 0.1			
Method Blank											< 1			0.0005	< 0.001	< 0.01
Method Blank											< 1			0.0005	< 0.001	< 0.01
Method Blank																