



Ministere des Ressources naturelles et de la Faune
400 boul Lamaque bureau 1.02
Val-d'Or PQ 261
Canada

Report No.: A23-13751-ReAssay
Report Date: 16-Jan-24
Date Submitted: 26-Sep-23
Your Reference: GOCHIGAMI NO:8

ATTN: Olivier Lamarche

CERTIFICATE OF ANALYSIS

196 Lake Sediments samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
UT-2-MRNF Quebec	QOP AquaGeo/QOP Ultratrace-1 (Aqua Regia ICPOES/ICPMS)	2023-12-27 17:01:06

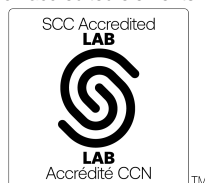
REPORT A23-13751-ReAssay

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:

Assays are recommended for values above the upper limit. The Au from AR-MS is for information purposes, for accurate Au fire assay 1A2 should be requested.

Refer to the Scope of Accreditation for information on accredited elements.



LabID: 266

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

CERTIFIED BY:

A handwritten signature in black ink, reading "Mark Vandergeest".

Mark Vandergeest
Quality Control Coordinator

Results

Activation Laboratories Ltd.

Report: A23-13751

Analyte Symbol	Au	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cs	Cu	Er	Eu	Dy	Fe	Ga	K	La	Lu	Mg	Mn
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm
Lower Limit	0.2	0.002	0.01	0.1	1	0.5	0.02	0.01	0.01	0.1	1	0.02	0.2	0.1	0.1	0.1	0.01	0.02	0.01	0.5	0.1	0.01	1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
145129																							
145130																							
145131																							
145132																							
145133																							
145158	0.3	0.070	0.29	1.0	< 1	18.9	0.03	0.28	0.23	1.1	7	0.28	5.4	0.4	0.2	0.9	0.17	0.79	0.01	14.0	< 0.1	0.04	22
145159	0.6	0.100	0.38	0.9	< 1	22.1	0.03	0.27	0.20	1.2	8	0.30	7.1	0.4	0.2	1.0	0.17	1.28	0.01	14.3	< 0.1	0.03	18
145160	0.5	0.028	0.24	1.2	< 1	7.0	0.03	0.13	0.08	3.6	4	0.15	1.8	0.4	0.2	1.0	0.33	0.93	< 0.01	14.4	< 0.1	0.04	42

Results

Activation Laboratories Ltd.

Report: A23-13751

Analyte Symbol	Mo	Na	Ni	P	Pb	S	Sb	Sc	Se	Sr	Te	Th	Ti	Tl	Tm	U	W	V	Zn	Be	Ce	Ge	Hf
Unit Symbol	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.1	0.001	0.1	0.001	0.02	0.1	0.1	0.5	0.02	0.1	0.001	0.02	0.1	0.1	0.1	1	0.1	0.1	0.01	0.1	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-ICP	AR-MS	AR-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
145129																			107				
145130																			21.5				
145131																			6.3				
145132																			27.3				
145133																			16.2				
145158	2.19	0.015	4.0	0.028	5.8	0.140	0.08	0.3	2.0	15.1	< 0.02	0.1	0.018	0.04	< 0.1	23.3	0.1	5	13.9	0.2	24.8	0.1	< 0.1
145159	3.13	0.017	4.5	0.036	4.8	0.181	0.12	0.2	1.8	16.3	< 0.02	< 0.1	0.017	0.04	< 0.1	20.5	0.2	8	11.6	0.2	25.0	0.1	< 0.1
145160	1.42	0.014	3.1	0.027	3.3	0.032	0.04	0.5	1.4	8.3	< 0.02	1.9	0.025	0.23	< 0.1	1.0	0.4	9	17.2	< 0.1	29.3	0.1	< 0.1

Analyte Symbol	In	Li	Nb	Nd	Rb	Re	Sn	Sm	Ta	Tb	Y	Yb	Zr	Pt	Pr	Pd	Hg	Ho
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppm
Lower Limit	0.02	0.1	0.02	0.02	0.1	0.2	0.05	0.1	0.05	0.1	0.01	0.1	0.1	2	0.1	10	10	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
145129																		
145130																		
145131																		
145132																		
145133																		
145158	< 0.02	1.4	0.93	11.6	1.2	1.0	0.23	2.1	< 0.05	0.2	4.25	0.3	1.0	< 2	3.2	< 10	40	0.2
145159	< 0.02	1.0	1.00	12.0	1.2	2.1	0.18	2.1	< 0.05	0.2	4.37	0.4	0.7	< 2	3.3	< 10	50	0.2
145160	< 0.02	1.1	1.10	12.9	0.9	0.6	0.23	2.3	< 0.05	0.2	4.18	0.3	1.0	< 2	3.6	< 10	20	0.2

Analyte Symbol	Au	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cs	Cu	Er	Eu	Dy	Fe	Ga	K	La	Lu	Mg	Mn
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm
Lower Limit	0.2	0.002	0.01	0.1	1	0.5	0.02	0.01	0.01	0.1	1	0.02	0.2	0.1	0.1	0.1	0.01	0.02	0.01	0.5	0.1	0.01	1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
OREAS 922 (Aqua Regia) Meas		0.881	2.40	7.3		77.8	10.1	0.38	0.32	19.2	42	1.76	2210				5.30	7.13	0.40	34.6		1.29	732
OREAS 922 (Aqua Regia) Cert		0.851	2.72	6.12		70	10.3	0.324	0.28	19.4	40.7	1.76	2176				5.05	7.62	0.376	32.5		1.33	730
OREAS 922 (Aqua Regia) Meas																							
OREAS 922 (Aqua Regia) Cert																							
OREAS 907 (Aqua Regia) Meas	92.9	1.35	1.12	36.6		264	23.8	0.26	0.61	46.1	8	1.44	6720	0.5	1.1	1.9	8.84	15.4	0.34	36.7	< 0.1	0.22	320
OREAS 907 (Aqua Regia) Cert	101	1.30	0.945	37.0		225	22.3	0.280	0.540	43.7	8.59	1.17	6370	0.430	0.950	1.63	8.18	14.7	0.286	36.1	0.0390	0.221	330
OREAS 907 (Aqua Regia) Meas																							
OREAS 907 (Aqua Regia) Cert																							
OREAS 45f (Aqua Regia) Meas																							
OREAS 45f (Aqua Regia) Cert																							
OREAS 45f (Aqua Regia) Meas																							
OREAS 45f (Aqua Regia) Cert																							
OREAS 45f (Aqua Regia) Meas																							
OREAS 45f (Aqua Regia) Cert																							
OREAS 130 (Aqua Regia) Meas		6.29	1.04	201			3.28	1.71	30.5	27.7	23	3.10	225				7.48	4.38	0.51	23.6	0.2	0.89	1640
OREAS 130 (Aqua Regia) Cert		6.27	1.10	205			3.05	1.81	28.8	27.1	23.2	2.96	226				7.27	4.78	0.500	26.4	0.150	0.892	1630
OREAS 130 (Aqua Regia) Meas																							
OREAS 130 (Aqua Regia) Cert																							
OREAS 130 (Aqua Regia) Meas																							
OREAS 130 (Aqua Regia) Cert																							
OREAS 521 (Aqua Regia) Meas																							
OREAS 521 (Aqua Regia) Cert																							
Oreas 620 (Aqua Regia) Meas																							
Oreas 620 (Aqua Regia) Cert																							
Oreas 610 (Aqua Regia) Meas																							

Analyte Symbol	Au	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cs	Cu	Er	Eu	Dy	Fe	Ga	K	La	Lu	Mg	Mn
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm
Lower Limit	0.2	0.002	0.01	0.1	1	0.5	0.02	0.01	0.01	0.1	1	0.02	0.2	0.1	0.1	0.1	0.01	0.02	0.01	0.5	0.1	0.01	1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
Oreas 610 (Aqua Regia) Cert																							
OREAS 603c (Aqua Regia) Meas																							
OREAS 603c (Aqua Regia) Cert																							
OREAS 609b (Aqua Regia) Meas																							
OREAS 609b (Aqua Regia) Cert																							
Method Blank																							
Method Blank																							
Method Blank	< 0.2	< 0.002	< 0.01	< 0.1	< 1	< 0.5	< 0.02	< 0.01	< 0.01	< 0.1	< 1	< 0.02	< 0.2	< 0.1	< 0.1	< 0.1	< 0.01	< 0.02	< 0.01	< 0.5	< 0.1	< 0.01	< 1
Method Blank																							
Method Blank																							

Analyte Symbol	Mo	Na	Ni	P	Pb	S	Sb	Sc	Se	Sr	Te	Th	Ti	Tl	Tm	U	W	V	Zn	Be	Ce	Ge	Hf
Unit Symbol	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.1	0.001	0.1	0.001	0.02	0.1	0.1	0.5	0.02	0.1	0.001	0.02	0.1	0.1	0.1	1	0.1	0.1	0.01	0.1	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-ICP	AR-MS	AR-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
OREAS 922 (Aqua Regia) Meas	0.75	0.022	35.3	0.064	58.7	0.370	0.36	3.2	5.6	15.1		15.5		0.18		2.2	0.8	30		0.7	72.9	0.3	< 0.1
OREAS 922 (Aqua Regia) Cert	0.69	0.021	34.3	0.063	60	0.386	0.57	3.15	3.44	15.0		14.5		0.14		1.98	1.12	29.4		0.65	63	0.10	0.61
OREAS 922 (Aqua Regia) Meas																			250				
OREAS 922 (Aqua Regia) Cert																			256				
OREAS 907 (Aqua Regia) Meas	5.39	0.089	5.0	0.024	34.4	0.064	1.81	2.2	10.4	12.5	0.32	9.0	0.021	0.16	< 0.1	2.3	0.5	5		0.9	77.6		0.2
OREAS 907 (Aqua Regia) Cert	5.64	0.0860	4.74	0.0240	34.1	0.0660	2.28	2.16	9.05	11.7	0.230	8.04	0.0170	0.120	0.0490	2.15	0.980	5.12		0.870	73.0		1.09
OREAS 907 (Aqua Regia) Meas																			144				
OREAS 907 (Aqua Regia) Cert																			139				
OREAS 45f (Aqua Regia) Meas				0.022		0.024							0.127										
OREAS 45f (Aqua Regia) Cert				0.0220		0.0270							0.0970										
OREAS 45f (Aqua Regia) Meas				0.023		0.025							0.111										
OREAS 45f (Aqua Regia) Cert				0.0220		0.0270							0.0970										
OREAS 45f (Aqua Regia) Meas				0.021		0.023							0.105										
OREAS 45f (Aqua Regia) Cert				0.0220		0.0270							0.0970										
OREAS 130 (Aqua Regia) Meas	8.56		34.5	0.090	1350	6.304	5.80	3.4		19.8	0.10	10.2	0.028	4.79		8.2	1.2	35	> 5000		49.7		0.8
OREAS 130 (Aqua Regia) Cert	8.25		35.2	0.0860	1300	6.02	4.69	3.42		23.2	0.170	10.3	0.0270	5.92		8.36	1.40	33.1	16900		54.0		0.610
OREAS 130 (Aqua Regia) Meas				0.088		6.161							0.027										
OREAS 130 (Aqua Regia) Cert				0.0860		6.02							0.0270										
OREAS 130 (Aqua Regia) Meas																			> 5000				
OREAS 130 (Aqua Regia) Cert																			16900				
OREAS 521 (Aqua Regia) Meas				0.080		1.722							0.122										
OREAS 521 (Aqua Regia) Cert				0.081		1.850							0.141										
Oreas 620 (Aqua Regia) Meas				0.028		2.457																	
Oreas 620 (Aqua Regia) Cert				0.031		2.470																	
Oreas 610 (Aqua Regia) Meas				0.030		2.832																	

Analyte Symbol	Mo	Na	Ni	P	Pb	S	Sb	Sc	Se	Sr	Te	Th	Ti	Tl	Tm	U	W	V	Zn	Be	Ce	Ge	Hf
Unit Symbol	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.1	0.001	0.1	0.001	0.02	0.1	0.1	0.5	0.02	0.1	0.001	0.02	0.1	0.1	0.1	1	0.1	0.1	0.01	0.1	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-ICP	AR-MS	AR-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
Oreas 610 (Aqua Regia) Cert				0.025		2.650																	
OREAS 603c (Aqua Regia) Meas																			> 5000				
OREAS 603c (Aqua Regia) Cert																			7860				
OREAS 609b (Aqua Regia) Meas				0.024		1.772							0.012										
OREAS 609b (Aqua Regia) Cert						2																	
Method Blank				< 0.001		< 0.001							< 0.001										
Method Blank				< 0.001		< 0.001							< 0.001										
Method Blank	0.09	0.009	0.2	< 0.001	< 0.1	< 0.001	< 0.02	< 0.1	< 0.1	< 0.5	0.06	< 0.1	< 0.001	< 0.02	< 0.1	< 0.1	< 0.1	< 1		< 0.1	< 0.01	< 0.1	< 0.1
Method Blank																			< 0.1				
Method Blank																			< 0.1				

Analyte Symbol	In	Li	Nb	Nd	Rb	Re	Sn	Sm	Ta	Tb	Y	Yb	Zr	Pt	Pr	Pd	Hg	Ho
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppm
Lower Limit	0.02	0.1	0.02	0.02	0.1	0.2	0.05	0.1	0.05	0.1	0.01	0.1	0.1	2	0.1	10	10	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
OREAS 922 (AQUA REGIA) Meas	0.26	21.3	0.34	30.7	22.3		6.12	6.2		0.7	18.8		0.8		8.1			
OREAS 922 (AQUA REGIA) Cert	0.24	22.8	0.35	27.5	22.7		3.83	4.98		0.62	16.0		22.3		7.33			
OREAS 922 (AQUA REGIA) Meas																		
OREAS 922 (AQUA REGIA) Cert																		
OREAS 907 (Aqua Regia) Meas	2.35	4.7		32.4	18.8		4.02	6.3		0.5	7.07	0.3	12.0		8.4			0.3
OREAS 907 (Aqua Regia) Cert	2.35	4.05		27.8	16.7		2.34	4.79		0.430	6.52	0.290	43.7		7.36			0.210
OREAS 907 (Aqua Regia) Meas																		
OREAS 907 (Aqua Regia) Cert																		
OREAS 45f (Aqua Regia) Meas																		
OREAS 45f (Aqua Regia) Cert																		
OREAS 45f (Aqua Regia) Meas																		
OREAS 45f (Aqua Regia) Cert																		
OREAS 45f (Aqua Regia) Meas																		
OREAS 45f (Aqua Regia) Cert																		
OREAS 130 (Aqua Regia) Meas	0.19	26.1			40.3						12.6		24.1		5.9		690	0.5
OREAS 130 (Aqua Regia) Cert	0.200	29.9			41.6						13.0		19.0		5.93		670	0.480
OREAS 130 (Aqua Regia) Meas																		
OREAS 130 (Aqua Regia) Cert																		
OREAS 130 (Aqua Regia) Meas																		
OREAS 130 (Aqua Regia) Cert																		
OREAS 521 (Aqua Regia) Meas																		
OREAS 521 (Aqua Regia) Cert																		
Oreas 620 (Aqua Regia) Meas																		
Oreas 620 (Aqua Regia) Cert																		
Oreas 610 (Aqua Regia) Meas																		

Analyte Symbol	In	Li	Nb	Nd	Rb	Re	Sn	Sm	Ta	Tb	Y	Yb	Zr	Pt	Pr	Pd	Hg	Ho
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppm
Lower Limit	0.02	0.1	0.02	0.02	0.1	0.2	0.05	0.1	0.05	0.1	0.01	0.1	0.1	2	0.1	10	10	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
Oreas 610 (Aqua Regia) Cert																		
OREAS 603c (Aqua Regia) Meas																		
OREAS 603c (Aqua Regia) Cert																		
OREAS 609b (Aqua Regia) Meas																		
OREAS 609b (Aqua Regia) Cert																		
Method Blank																		
Method Blank																		
Method Blank	< 0.02	< 0.1	< 0.02	< 0.02	< 0.1	< 0.2	< 0.05	< 0.1	< 0.05	< 0.1	< 0.01	< 0.1	< 0.1	< 2	< 0.1	< 10	< 10	< 0.1
Method Blank																		
Method Blank																		