



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Geological Survey of Canada

Room 659 - 601 Booth St.
Ottawa ON K1A 0E8 Canada

Submitted By: Alexandre Zagorevski

Receiving Lab: Canada-Vancouver

Received: November 19, 2010

Report Date: December 13, 2010

Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN10006340.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number: MGM063852W
Number of Samples: 14

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	14	Crush, split and pulverize 250 g rock to 200 mesh			VAN
4A4B	14	Whole Rock Analysis Majors and Trace Elements	0.2	Completed	VAN

SAMPLE DISPOSAL

RTRN-PLP Return

ADDITIONAL COMMENTS

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

Invoice To: Geological Survey of Canada - Invoice Receipt
615 Booth St.,
Mailbox SS0-1-A 1st Floor
Ottawa ON K1A 0E9
Canada

CC:



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.

*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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 Ottawa ON K1A 0E8 Canada

Project: None Given
 Report Date: December 13, 2010

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN10006340.1

Method	WGHT	4A-4B																			
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ni	Sc	LOI	Sum	Ba	Be	Co	Cs	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	20	1	-5.1	0.01	1	1	0.2	0.1	
ZE-10-R11	Rock	0.08	49.77	13.77	11.02	8.47	11.43	2.33	0.13	0.83	0.11	0.18	0.047	129	42	1.7	99.79	60	<1	47.4	<0.1
ZE-10-R12	Rock	0.02	91.24	2.38	2.42	1.44	0.66	0.06	0.27	0.12	0.12	0.20	0.013	47	5	1.0	99.92	920	<1	5.9	0.3
ZE-10-R13A	Rock	0.03	89.70	4.29	1.94	1.36	0.11	0.29	0.86	0.21	0.04	0.04	0.012	32	5	1.0	99.90	997	<1	5.4	0.5
ZE-10-R13B	Rock	0.09	86.16	5.08	2.71	0.99	1.01	0.35	1.48	0.26	0.05	0.21	0.009	34	7	1.4	99.75	2367	1	7.1	1.4
ZE-10-R15	Rock	0.05	94.54	1.26	1.71	0.41	0.37	0.03	0.36	0.06	0.04	0.53	0.011	<20	3	0.4	99.73	2687	<1	3.1	0.5
ZE-10-R16	Rock	0.08	69.59	11.24	5.48	2.76	1.75	0.81	2.70	0.66	0.11	0.08	0.024	146	15	4.6	99.77	1217	1	17.2	2.7
ZE-10-R17A	Rock	0.09	47.89	14.04	14.62	6.22	10.16	3.01	0.09	1.86	0.04	0.25	0.004	42	45	1.6	99.78	30	<1	52.7	<0.1
ZE-10-R17C	Rock	0.13	91.90	1.21	3.75	0.73	1.14	0.21	0.11	0.06	0.11	0.33	0.007	40	3	0.4	99.98	538	<1	5.9	<0.1
ZE-10-R18	Rock	0.14	47.69	14.48	11.09	8.38	9.94	2.41	1.12	1.07	0.08	0.19	0.051	92	42	3.2	99.71	673	<1	50.2	0.4
ZE-10-R19A	Rock	0.04	80.71	7.65	2.99	1.89	0.87	0.54	2.20	0.38	0.03	0.07	0.013	26	11	2.6	99.93	478	1	7.9	2.6
ZE-10-R19B	Rock	0.09	60.37	14.47	5.99	2.91	1.28	1.39	3.39	0.61	0.09	0.07	0.015	65	16	9.0	99.60	2180	2	15.1	5.3
ZE-10-R21A	Rock	0.11	51.33	4.71	10.89	10.38	17.24	2.89	0.04	0.05	0.95	0.51	0.007	167	40	0.7	99.73	20	2	35.3	<0.1
ZE-10-R21B	Rock	0.09	38.36	19.55	31.33	3.84	3.94	0.67	0.08	0.19	0.15	1.66	0.016	<20	112	0.0	99.81	84	<1	38.6	0.2
ZE-10-R22	Rock	0.26	48.60	11.12	20.82	3.99	7.86	3.15	0.07	3.24	0.26	0.33	0.003	<20	45	0.4	99.83	12	<1	57.8	0.1



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Project: None Given
 Report Date: December 13, 2010

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

VAN10006340.1

Method	Analyte	4A-4B																			
		Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd
Unit		ppm																			
MDL		0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1	0.02	0.3	0.05	0.02	0.05
ZE-10-R11	Rock	15.4	2.4	4.6	2.0	<1	126.9	0.3	0.5	0.2	245	<0.5	76.7	28.3	4.8	13.6	2.11	11.3	3.24	1.00	4.36
ZE-10-R12	Rock	4.1	0.7	2.4	5.4	<1	6.2	0.2	1.9	1.0	16	<0.5	24.7	8.5	9.9	15.1	2.43	10.1	1.84	0.39	1.75
ZE-10-R13A	Rock	6.7	1.1	4.9	22.6	<1	16.3	0.3	3.3	0.7	30	1.2	38.0	5.3	9.5	21.1	2.32	9.1	1.60	0.32	1.33
ZE-10-R13B	Rock	8.9	1.4	5.6	49.7	1	19.9	0.4	4.3	0.9	31	0.7	50.7	9.4	10.9	25.7	2.71	11.4	2.10	0.44	1.95
ZE-10-R15	Rock	3.3	0.3	1.4	12.5	<1	38.6	0.2	1.3	1.8	<8	<0.5	16.6	6.4	5.9	9.1	1.66	7.2	1.41	0.33	1.50
ZE-10-R16	Rock	15.7	2.4	11.1	77.4	2	69.5	0.6	7.0	2.8	148	1.0	97.1	21.3	18.9	43.0	4.83	20.6	3.90	0.91	3.79
ZE-10-R17A	Rock	20.0	2.0	4.4	0.7	1	125.8	0.3	0.3	0.2	554	<0.5	69.8	24.6	5.1	13.9	2.08	11.4	3.27	1.27	4.31
ZE-10-R17C	Rock	3.4	0.5	1.1	1.9	<1	16.2	<0.1	1.2	<0.1	<8	<0.5	21.4	10.1	11.6	10.1	2.97	12.1	2.45	0.58	2.38
ZE-10-R18	Rock	15.2	1.7	3.0	13.8	<1	137.3	0.2	<0.2	0.1	296	<0.5	53.7	22.4	2.6	7.8	1.22	6.4	2.12	0.87	3.22
ZE-10-R19A	Rock	13.3	2.2	8.6	76.9	2	32.7	0.6	6.6	1.1	58	1.1	76.4	11.0	14.7	38.9	3.55	13.9	2.55	0.43	2.12
ZE-10-R19B	Rock	17.1	3.4	11.5	120.4	3	87.1	0.8	13.1	6.1	256	1.1	121.4	30.7	34.0	70.8	8.24	30.3	5.90	1.20	5.18
ZE-10-R21A	Rock	16.7	3.2	0.3	0.7	1	27.3	<0.1	1.7	1.6	460	<0.5	144.8	21.0	7.9	13.3	3.26	16.1	3.93	0.99	4.19
ZE-10-R21B	Rock	18.6	8.6	0.9	2.2	<1	16.0	0.1	0.5	2.8	361	<0.5	423.4	50.9	1.7	2.1	0.43	2.1	0.70	0.33	2.00
ZE-10-R22	Rock	22.2	4.4	8.3	0.4	1	36.2	0.5	0.6	0.3	351	<0.5	155.8	49.8	8.2	21.8	3.30	17.2	4.99	1.78	7.03



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Project: None Given
 Report Date: December 13, 2010

Page: 2 of 2 Part 3

CERTIFICATE OF ANALYSIS

VAN10006340.1

Method	Analyte	Unit	MDL	4A-4B Tb	4A-4B Dy	4A-4B Ho	4A-4B Er	4A-4B Tm	4A-4B Yb	4A-4B 2A Lu	Leco 2A TOT/C	Leco TOT/S	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ni	1DX As	1DX Cd	1DX Sb	1DX Bi	1DX Ag	1DX Au
				ppm	%	%	ppm	ppb															
ZE-10-R11	Rock			0.79	4.63	1.00	2.89	0.42	2.72	0.40	0.05	<0.02	0.6	86.4	0.4	18	23.2	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5
ZE-10-R12	Rock			0.27	1.57	0.31	0.93	0.14	0.85	0.13	0.05	<0.02	0.8	49.7	0.8	46	36.5	<0.5	<0.1	<0.1	0.1	<0.1	4.6
ZE-10-R13A	Rock			0.22	1.15	0.20	0.53	0.06	0.36	0.05	<0.02	<0.02	0.6	130.8	2.8	28	26.9	<0.5	<0.1	<0.1	0.1	<0.1	<0.5
ZE-10-R13B	Rock			0.30	1.68	0.33	0.94	0.14	0.93	0.13	0.17	<0.02	0.7	50.7	3.4	34	17.7	<0.5	<0.1	<0.1	0.2	<0.1	0.6
ZE-10-R15	Rock			0.25	1.44	0.28	0.89	0.13	0.81	0.12	0.03	0.04	1.0	121.3	3.3	18	11.4	39.1	<0.1	0.2	<0.1	<0.1	<0.5
ZE-10-R16	Rock			0.61	3.40	0.72	2.09	0.31	2.05	0.30	1.59	0.96	10.9	99.9	3.1	86	55.2	0.5	0.3	<0.1	0.1	0.2	<0.5
ZE-10-R17A	Rock			0.75	4.30	0.91	2.61	0.38	2.49	0.36	0.17	0.03	2.5	78.9	0.3	23	11.8	1.4	<0.1	<0.1	<0.1	<0.1	<0.5
ZE-10-R17C	Rock			0.39	2.13	0.46	1.20	0.18	1.17	0.18	0.11	<0.02	0.5	5.3	0.8	18	23.1	4.0	<0.1	0.1	<0.1	<0.1	5.4
ZE-10-R18	Rock			0.59	3.75	0.80	2.36	0.34	2.23	0.33	0.15	0.19	0.3	137.0	0.5	27	38.9	2.8	<0.1	<0.1	<0.1	<0.1	3.2
ZE-10-R19A	Rock			0.35	2.11	0.42	1.31	0.20	1.32	0.21	0.55	0.77	0.9	64.2	5.7	35	22.6	<0.5	<0.1	<0.1	0.2	<0.1	<0.5
ZE-10-R19B	Rock			0.87	4.88	1.06	2.76	0.44	2.90	0.43	3.90	3.05	50.4	53.8	20.7	159	53.3	14.7	1.8	0.2	0.3	0.3	0.7
ZE-10-R21A	Rock			0.58	3.30	0.81	3.16	0.63	5.25	0.91	0.07	<0.02	0.5	4.1	0.4	23	15.7	<0.5	0.1	<0.1	<0.1	<0.1	0.5
ZE-10-R21B	Rock			0.67	6.41	1.98	7.79	1.38	10.70	1.77	0.05	<0.02	0.5	0.3	<0.1	56	2.7	<0.5	0.1	<0.1	<0.1	<0.1	<0.5
ZE-10-R22	Rock			1.33	8.44	1.83	5.40	0.81	5.42	0.81	0.07	0.31	1.9	57.6	0.3	36	1.5	0.6	<0.1	0.1	<0.1	<0.1	0.8



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Project: None Given

Report Date: December 13, 2010

Page: 2 of 2 Part 4

CERTIFICATE OF ANALYSIS

VAN10006340.1

Method	1DX	1DX	1DX	
Analyte	Hg	Tl	Se	
Unit	ppm	ppm	ppm	
MDL	0.01	0.1	0.5	
ZE-10-R11	Rock	<0.01	<0.1	<0.5
ZE-10-R12	Rock	0.02	<0.1	<0.5
ZE-10-R13A	Rock	0.07	<0.1	<0.5
ZE-10-R13B	Rock	<0.01	<0.1	<0.5
ZE-10-R15	Rock	<0.01	<0.1	<0.5
ZE-10-R16	Rock	<0.01	0.1	1.6
ZE-10-R17A	Rock	<0.01	<0.1	<0.5
ZE-10-R17C	Rock	<0.01	<0.1	<0.5
ZE-10-R18	Rock	<0.01	<0.1	<0.5
ZE-10-R19A	Rock	<0.01	<0.1	<0.5
ZE-10-R19B	Rock	0.02	0.1	5.2
ZE-10-R21A	Rock	0.01	<0.1	<0.5
ZE-10-R21B	Rock	<0.01	<0.1	<0.5
ZE-10-R22	Rock	<0.01	<0.1	0.5



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QUALITY CONTROL REPORT

VAN10006340.1

Method	WGHT	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B											
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ni	Sc	LOI	Sum	Ba	Be	Co	Cs	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	20	1	-5.1	0.01	1	1	1	0.2	0.1
ZE-10-R13B	Rock	0.09	86.16	5.08	2.71	0.99	1.01	0.35	1.48	0.26	0.05	0.21	0.009	34	7	1.4	99.75	2367	1	7.1	1.4
Pulp Duplicates																					
ZE-10-R13A	Rock	0.03	89.70	4.29	1.94	1.36	0.11	0.29	0.86	0.21	0.04	0.04	0.012	32	5	1.0	99.90	997	<1	5.4	0.5
REP ZE-10-R13A	QC																				
ZE-10-R17A	Rock	0.09	47.89	14.04	14.62	6.22	10.16	3.01	0.09	1.86	0.04	0.25	0.004	42	45	1.6	99.78	30	<1	52.7	<0.1
REP ZE-10-R17A	QC		47.84	14.14	14.61	6.23	10.06	3.01	0.10	1.88	0.04	0.25	0.006	36	45	1.6	99.77	29	<1	50.9	<0.1
Core Reject Duplicates																					
ZE-10-R19A	Rock	0.04	80.71	7.65	2.99	1.89	0.87	0.54	2.20	0.38	0.03	0.07	0.013	26	11	2.6	99.93	478	1	7.9	2.6
DUP ZE-10-R19A	QC		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.										
Reference Materials																					
STD CSC	Standard																				
STD DS7	Standard																				
STD DS8	Standard																				
STD OREAS45PA	Standard																				
STD OREAS76A	Standard																				
STD SO-18	Standard		58.04	14.09	7.62	3.35	6.33	3.69	2.25	0.69	0.84	0.40	0.554	45	24	1.9	99.75	524	<1	28.1	7.1
STD SO-18	Standard		58.07	14.31	7.35	3.38	6.33	3.75	2.19	0.69	0.82	0.41	0.579	43	26	1.9	99.77	504	1	27.0	6.8
STD SO-18	Standard		58.17	14.05	7.59	3.35	6.35	3.69	2.17	0.69	0.83	0.39	0.549	50	24	1.9	99.75	508	1	27.2	7.0
STD SO-18	Standard		58.28	14.10	7.53	3.32	6.36	3.66	2.14	0.69	0.82	0.39	0.541	43	23	1.9	99.73	509	1	27.4	7.0
STD CSC Expected																					
STD OREAS76A Expected																					
STD DS7 Expected																					
STD OREAS45PA Expected																					
STD DS8 Expected																					
STD SO-18 Expected			58.47	14.23	7.67	3.35	6.42	3.71	2.17	0.69	0.83	0.39	0.55	44	25			514		26.2	7.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank		<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<20	<1	0.0	<0.01	<1	<1	<0.2	<0.1
BLK	Blank		<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<20	<1	0.0	<0.01	<1	<1	<0.2	<0.1

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



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QUALITY CONTROL REPORT

VAN10006340.1

Method	Analyte	Unit	MDL	4A-4B																			
				Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd
				ppm																			
				0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1	0.02	0.3	0.05	0.02	0.05
ZE-10-R13B	Rock			8.9	1.4	5.6	49.7	1	19.9	0.4	4.3	0.9	31	0.7	50.7	9.4	10.9	25.7	2.71	11.4	2.10	0.44	1.95
Pulp Duplicates																							
ZE-10-R13A	Rock			6.7	1.1	4.9	22.6	<1	16.3	0.3	3.3	0.7	30	1.2	38.0	5.3	9.5	21.1	2.32	9.1	1.60	0.32	1.33
REP ZE-10-R13A	QC																						
ZE-10-R17A	Rock			20.0	2.0	4.4	0.7	1	125.8	0.3	0.3	0.2	554	<0.5	69.8	24.6	5.1	13.9	2.08	11.4	3.27	1.27	4.31
REP ZE-10-R17A	QC			20.3	2.2	4.4	0.7	1	128.7	0.3	0.4	0.3	559	<0.5	73.6	25.4	5.3	14.3	2.14	11.5	3.44	1.34	4.45
Core Reject Duplicates																							
ZE-10-R19A	Rock			13.3	2.2	8.6	76.9	2	32.7	0.6	6.6	1.1	58	1.1	76.4	11.0	14.7	38.9	3.55	13.9	2.55	0.43	2.12
DUP ZE-10-R19A	QC			I.S.																			
Reference Materials																							
STD CSC	Standard																						
STD DS7	Standard																						
STD DS8	Standard																						
STD OREAS45PA	Standard																						
STD OREAS76A	Standard																						
STD SO-18	Standard			17.1	9.4	22.3	29.1	16	418.5	7.0	10.5	16.7	196	14.3	283.9	31.6	12.0	27.6	3.33	13.5	2.88	0.86	2.96
STD SO-18	Standard			17.0	9.0	21.7	29.0	15	401.3	6.8	10.1	15.9	186	13.8	272.1	30.6	11.8	27.0	3.24	13.3	2.74	0.82	2.83
STD SO-18	Standard			16.8	9.5	21.0	28.9	16	423.4	7.1	10.8	16.6	213	14.1	283.0	31.8	12.2	29.1	3.40	13.8	2.89	0.86	2.94
STD SO-18	Standard			16.9	9.3	20.6	29.1	16	425.6	6.8	10.8	16.7	213	14.2	285.5	31.7	12.1	27.9	3.39	13.6	2.84	0.85	2.92
STD CSC Expected																							
STD OREAS76A Expected																							
STD DS7 Expected																							
STD OREAS45PA Expected																							
STD DS8 Expected																							
STD SO-18 Expected				17.6	9.8	21.3	28.7	15	407.4	7.4	9.9	16.4	200	14.8	280	31	12.3	27.1	3.45	14	3	0.89	2.93
BLK	Blank																						
BLK	Blank																						
BLK	Blank			<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02	<0.3	<0.05	<0.02	<0.05
BLK	Blank			<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	1.5	<0.1	<0.1	<0.1	<0.02	<0.3	<0.05	<0.02	<0.05

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



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QUALITY CONTROL REPORT

VAN10006340.1

Method	Analyte	Unit	MDL	4A-4B Tb	4A-4B Dy	4A-4B Ho	4A-4B Er	4A-4B Tm	4A-4B Yb	4A-4B Lu	2A Leco TOT/C	2A Leco TOT/S	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ni	1DX As	1DX Cd	1DX Sb	1DX Bi	1DX Ag	1DX Au
				ppm	%	%	ppm	ppb															
ZE-10-R13B	Rock			0.30	1.68	0.33	0.94	0.14	0.93	0.13	0.17	<0.02	0.7	50.7	3.4	34	17.7	<0.5	<0.1	<0.1	0.2	<0.1	0.6
Pulp Duplicates																							
ZE-10-R13A	Rock			0.22	1.15	0.20	0.53	0.06	0.36	0.05	<0.02	<0.02	0.6	130.8	2.8	28	26.9	<0.5	<0.1	<0.1	0.1	<0.1	<0.5
REP ZE-10-R13A	QC												0.8	135.5	2.9	28	28.9	<0.5	<0.1	<0.1	0.1	<0.1	<0.5
ZE-10-R17A	Rock			0.75	4.30	0.91	2.61	0.38	2.49	0.36	0.17	0.03	2.5	78.9	0.3	23	11.8	1.4	<0.1	<0.1	<0.1	<0.1	<0.5
REP ZE-10-R17A	QC			0.76	4.29	0.93	2.69	0.38	2.45	0.38													
Core Reject Duplicates																							
ZE-10-R19A	Rock			0.35	2.11	0.42	1.31	0.20	1.32	0.21	0.55	0.77	0.9	64.2	5.7	35	22.6	<0.5	<0.1	<0.1	0.2	<0.1	<0.5
DUP ZE-10-R19A	QC			I.S.	I.S.	0.9	64.7	5.9	36	23.4	<0.5	<0.1	<0.1	0.2	<0.1	<0.5							
Reference Materials																							
STD CSC	Standard										3.01	4.17											
STD DS7	Standard												20.0	103.7	68.0	385	53.9	49.1	5.7	4.1	4.4	1.0	53.1
STD DS8	Standard												12.9	118.3	134.0	327	41.0	27.0	2.3	4.4	7.2	1.8	111.6
STD OREAS45PA	Standard												0.8	591.9	21.7	116	296.8	4.2	0.1	0.2	0.2	0.3	53.7
STD OREAS76A	Standard										0.16	18.05											
STD SO-18	Standard			0.49	2.98	0.62	1.76	0.27	1.77	0.27													
STD SO-18	Standard			0.48	2.78	0.59	1.74	0.26	1.72	0.26													
STD SO-18	Standard			0.50	3.02	0.62	1.82	0.28	1.75	0.28													
STD SO-18	Standard			0.50	2.92	0.63	1.82	0.27	1.71	0.28													
STD CSC Expected											2.94	4.25											
STD OREAS76A Expected											0.16	18											
STD DS7 Expected													20.5	109	70.6	411	56	50	6.4	4.6	4.5	0.9	70
STD OREAS45PA Expected													0.9	600	19	119	281	4.2	0.09	0.13	0.18	0.3	43
STD DS8 Expected													12.87	113	126	313	40.6	27.73	2.35	4.89	6.67	1.71	99
STD SO-18 Expected				0.53	3	0.62	1.84	0.27	1.79	0.27													
BLK	Blank										<0.02	<0.02											
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5
BLK	Blank			<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01													
BLK	Blank			<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01													



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QUALITY CONTROL REPORT

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Method	1DX	1DX	1DX	
Analyte	Hg	Tl	Se	
Unit	ppm	ppm	ppm	
MDL	0.01	0.1	0.5	
ZE-10-R13B	Rock	<0.01	<0.1	<0.5
Pulp Duplicates				
ZE-10-R13A	Rock	0.07	<0.1	<0.5
REP ZE-10-R13A	QC	0.09	<0.1	<0.5
ZE-10-R17A	Rock	<0.01	<0.1	<0.5
REP ZE-10-R17A	QC			
Core Reject Duplicates				
ZE-10-R19A	Rock	<0.01	<0.1	<0.5
DUP ZE-10-R19A	QC	<0.01	<0.1	<0.5
Reference Materials				
STD CSC	Standard			
STD DS7	Standard	0.20	3.8	3.5
STD DS8	Standard	0.20	5.8	5.9
STD OREAS45PA	Standard	0.03	<0.1	<0.5
STD OREAS76A	Standard			
STD SO-18	Standard			
STD SO-18	Standard			
STD SO-18	Standard			
STD SO-18	Standard			
STD CSC Expected				
STD OREAS76A Expected				
STD DS7 Expected		0.21	4.2	3.5
STD OREAS45PA Expected		0.03	0.07	0.54
STD DS8 Expected		0.192	5.58	5.9
STD SO-18 Expected				
BLK	Blank			
BLK	Blank	<0.01	<0.1	<0.5
BLK	Blank			
BLK	Blank			



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		WGHT	4A-4B																		
		Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ni	Sc	LOI	Sum	Ba	Be	Co	Cs
		kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm
		0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	20	1	-5.1	0.01	1	1	0.2	0.1
Prep Wash																					
G1	Prep Blank	<0.01	66.35	16.05	3.67	1.22	3.71	3.64	3.75	0.43	0.21	0.11	0.005	<20	6	0.6	99.75	1141	2	5.0	4.6
G1	Prep Blank	<0.01	67.74	15.51	3.43	1.13	3.42	3.59	3.63	0.41	0.19	0.10	0.007	<20	6	0.6	99.76	1061	2	4.5	4.8



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QUALITY CONTROL REPORT

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		4A-4B																			
		Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd
		ppm	ppm																		
Prep Wash		0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1	0.02	0.3	0.05	0.02	0.05
G1	Prep Blank	18.2	3.9	29.2	141.6	2	749.7	1.6	12.7	4.2	56	<0.5	136.3	19.3	52.2	95.9	9.32	32.8	4.77	1.18	3.55
G1	Prep Blank	17.9	3.6	25.8	133.6	2	762.9	1.4	9.1	3.3	51	<0.5	130.3	17.2	33.1	68.0	7.45	28.0	4.26	1.10	3.29



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QUALITY CONTROL REPORT

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		4A-4B 2A	Leco 2A	Leco	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX									
		Tb	Dy	Ho	Er	Tm	Yb	Lu	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi	Ag	Au		
		ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb							
		0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.02	0.02	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.5	
Prep Wash																							
G1	Prep Blank	0.55	3.05	0.63	1.93	0.29	2.05	0.32	0.02	<0.02	0.3	2.5	2.8	46	3.7	<0.5	<0.1	<0.1	0.1	<0.1	<0.1	0.5	
G1	Prep Blank	0.50	2.73	0.56	1.73	0.27	1.85	0.29	<0.02	<0.02	0.4	1.9	2.6	44	3.2	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	



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QUALITY CONTROL REPORT

VAN10006340.1

		1DX Hg ppm 0.01	1DX TI ppm 0.1	1DX Se ppm 0.5
Prep Wash				
G1	Prep Blank	<0.01	0.3	<0.5
G1	Prep Blank	<0.01	0.3	<0.5