



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

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Client: Geological Survey of Canada
Room 659 - 601 Booth St.
Ottawa ON K1A 0E8 Canada

Submitted By: Alexandre Zagorevski
Receiving Lab: Canada-Vancouver
Received: October 03, 2012
Report Date: November 26, 2012
Page: 1 of 8

CERTIFICATE OF ANALYSIS

VAN11006014R.1

CLIENT JOB INFORMATION

Project: Stevenson Ridge
Shipment ID:
P.O. Number: 3000488062
Number of Samples: 182

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Row 1: 4A4B, 181, Whole Rock Analysis Majors and Trace Elements, 0.2, Completed, VAN

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT 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. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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

Project: Stevenson Ridge
 Report Date: November 26, 2012

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CERTIFICATE OF ANALYSIS

VAN11006014R.1

Method Analyte	Unit	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	
		SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ni	Sc	LOI	Sum	Ba	Be	Co	Cs	Ga
MDL		0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.002	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	
11RAYAZ043B01	Rock	47.38	15.58	11.77	7.08	11.95	2.91	0.98	0.81	0.07	0.22	0.022	35	40	1.0	99.75	261	<1	42.5	0.2	15.9
11RAYAZ051A02	Rock	53.52	15.91	10.40	4.17	8.34	4.09	0.83	1.38	0.18	0.17	0.005	<20	28	0.7	99.68	348	3	23.4	0.5	18.2
11RAYAZ052A02	Rock	75.17	11.86	3.52	1.23	1.46	2.45	2.70	0.51	<0.01	0.07	0.006	<20	8	0.9	99.82	1018	<1	7.1	1.3	13.0
11RAYAZ053A02	Rock	75.90	12.95	1.89	0.31	1.87	4.97	1.46	0.17	0.03	0.02	<0.002	<20	6	0.3	99.87	649	<1	4.0	0.3	11.8
11RAYAZ053B02	Rock	54.17	16.52	9.97	5.02	9.38	2.25	0.85	0.46	0.08	0.16	0.008	<20	43	0.9	99.79	377	<1	28.6	0.7	15.1
11RAYAZ057A02	Rock	51.57	13.58	8.83	7.81	8.01	2.93	3.07	0.95	0.39	0.14	0.050	<20	25	2.3	99.62	1119	7	27.5	1.6	13.9
11RAYAZ059B02	Rock	49.08	14.82	8.38	4.42	7.10	3.07	3.56	0.93	0.33	0.15	0.007	<20	19	7.8	99.64	1422	4	21.7	1.3	14.8
11RAYAZ066A02	Rock	48.54	13.31	14.90	6.12	10.54	2.74	0.32	1.95	0.17	0.21	0.018	63	47	0.9	99.76	77	<1	43.0	0.6	18.6
11RAYAZ067A01	Rock	68.30	15.61	3.72	1.03	2.27	4.15	3.41	0.43	0.11	0.10	<0.002	<20	12	0.7	99.80	958	2	6.1	4.1	17.2
11RAYAZ068A02	Rock	72.22	13.74	2.39	0.66	1.51	3.03	4.63	0.27	0.11	0.08	<0.002	<20	4	1.1	99.72	1892	1	3.6	5.1	14.1
11RAYAZ076A02	Rock	63.69	15.50	6.75	1.79	3.48	3.17	3.02	0.62	0.14	0.12	<0.002	<20	15	1.5	99.75	1063	1	8.9	1.6	14.5
11RAYAZ080A02	Rock	51.30	17.44	7.24	7.19	10.94	3.43	0.50	0.37	0.02	0.14	0.025	24	38	1.1	99.75	126	<1	26.7	0.2	12.4
11RAYAZ088B02	Rock	48.16	16.65	13.26	6.15	8.71	3.85	0.48	1.48	0.22	0.24	0.009	<20	44	0.5	99.73	212	<1	42.0	0.3	19.0
11RAYAZ092A02	Rock	67.92	17.50	1.92	0.64	3.04	6.14	1.33	0.22	0.10	0.03	<0.002	<20	3	0.8	99.59	2013	1	2.0	0.7	20.5
11RAYAZ094A02	Rock	76.02	13.58	0.77	0.12	0.28	3.17	4.63	0.07	0.03	0.02	<0.002	<20	2	1.2	99.88	957	3	0.9	5.6	16.0
11RAYAZ102A02	Rock	74.58	13.94	1.02	0.28	1.02	3.76	4.46	0.12	0.03	0.05	<0.002	<20	2	0.6	99.88	659	2	1.4	8.4	15.6
11RAYAZ105A02	Rock	71.39	14.09	3.10	0.72	2.23	3.21	3.58	0.28	0.06	0.06	<0.002	<20	7	1.1	99.80	1172	<1	5.2	0.5	14.1
11RAYAZ106A02	Rock	72.15	14.33	2.54	1.05	2.03	3.62	3.01	0.21	0.04	0.05	<0.002	<20	6	0.8	99.83	881	<1	5.9	0.7	11.8
11RAYAZ107A02	Rock	52.35	16.14	8.97	6.23	7.81	3.95	2.18	0.84	0.22	0.17	0.029	28	30	0.8	99.72	702	<1	29.5	0.2	16.3
11RAYAZ109A02	Rock	72.74	15.85	0.74	0.24	2.49	5.30	2.08	0.09	0.04	0.02	<0.002	<20	<1	0.1	99.69	1574	<1	0.8	0.2	19.9
11RAYAZ113B02	Rock	49.34	16.35	9.21	6.11	11.63	1.18	3.59	1.01	0.17	0.21	0.016	<20	33	0.9	99.71	851	<1	33.1	0.4	16.8
11RAYAZ119A02	Rock	46.38	19.42	10.83	7.73	9.21	1.39	1.34	0.92	0.30	0.18	0.021	66	15	1.8	99.51	1768	<1	43.4	1.9	19.1
11RAYAZ122A02	Rock	51.44	17.22	10.25	4.35	7.84	2.40	2.45	1.37	0.63	0.15	<0.002	<20	29	1.5	99.57	1745	1	23.7	2.1	19.5
11RAYAZ125A03	Rock	66.83	16.08	3.58	2.09	3.07	3.05	3.33	0.55	0.16	0.10	<0.002	<20	8	0.6	99.39	3462	3	5.5	1.4	18.1
11RAYAZ127B01	Rock	49.45	14.75	11.39	6.63	11.23	2.59	0.80	1.60	0.21	0.19	0.045	109	38	0.9	99.74	258	<1	45.4	1.4	18.6
11RAYAZ132B02	Rock	52.28	16.05	9.85	5.34	9.79	2.76	0.50	1.43	0.15	0.16	<0.002	21	32	1.5	99.79	167	<1	31.1	0.6	18.2
11RAYAZ133A02	Rock	70.96	14.53	2.78	0.56	1.68	4.19	3.90	0.20	0.07	0.08	<0.002	<20	2	0.7	99.62	2508	5	2.9	1.8	16.2
11RAYAZ138A02	Rock	77.22	12.77	0.81	0.05	0.10	2.89	4.85	0.05	0.02	<0.01	<0.002	<20	2	1.1	99.89	888	1	0.6	3.1	13.0
11RAYAZ148A02	Rock	59.99	17.93	6.53	2.40	6.38	2.90	1.72	0.70	0.20	0.12	<0.002	<20	15	0.8	99.64	1837	<1	12.4	3.5	20.1
11RAYAZ149A02	Rock	55.73	18.20	8.28	3.44	7.46	2.84	1.69	0.93	0.26	0.15	<0.002	<20	21	0.6	99.59	1886	<1	18.1	4.6	21.0

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VAN11006014R.1

Method Analyte	Unit	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	
		Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		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	
11RAYAZ043B01	Rock	0.8	2.0	6.0	<1	444.4	<0.1	0.7	0.6	295	1.1	38.8	13.8	4.9	10.2	1.52	8.2	1.89	0.68	2.26	0.41
11RAYAZ051A02	Rock	4.5	8.3	20.9	3	390.9	0.4	3.1	1.1	252	1.2	156.0	37.1	18.4	39.4	5.17	23.0	5.66	1.53	5.93	1.08
11RAYAZ052A02	Rock	8.2	12.3	65.9	2	212.2	0.8	17.1	2.8	52	1.0	297.3	17.3	38.9	80.7	8.44	30.7	5.27	0.81	4.07	0.59
11RAYAZ053A02	Rock	3.5	6.8	28.3	<1	301.3	0.4	13.0	2.0	19	<0.5	117.2	21.5	28.2	48.4	5.16	18.2	3.36	0.57	3.27	0.54
11RAYAZ053B02	Rock	1.2	2.8	21.8	<1	280.4	0.1	1.7	0.6	259	<0.5	38.0	13.7	6.8	14.1	1.91	8.4	1.95	0.56	2.06	0.36
11RAYAZ057A02	Rock	3.1	7.9	87.6	<1	774.5	0.4	2.9	1.3	217	0.7	114.3	21.9	17.6	37.8	5.04	19.3	4.62	1.24	4.19	0.70
11RAYAZ059B02	Rock	3.3	7.4	104.4	1	966.8	0.4	4.2	2.0	238	1.7	118.8	22.1	20.6	41.4	5.23	23.2	4.86	1.29	4.27	0.67
11RAYAZ066A02	Rock	3.2	3.2	10.5	<1	160.5	0.2	0.2	0.1	449	<0.5	108.3	39.6	4.5	12.8	2.23	12.5	4.18	1.45	5.58	1.00
11RAYAZ067A01	Rock	3.3	15.9	146.9	3	230.8	1.4	19.8	3.6	73	<0.5	113.0	38.6	24.8	47.8	6.06	23.2	5.46	0.80	5.72	0.96
11RAYAZ068A02	Rock	4.1	14.2	189.5	2	241.9	1.5	24.8	4.7	35	0.7	137.3	14.0	28.8	58.8	5.39	19.5	3.25	0.55	2.58	0.38
11RAYAZ076A02	Rock	3.4	8.8	100.2	<1	361.4	0.6	9.3	2.2	78	<0.5	143.5	20.8	28.6	55.6	6.43	25.5	4.81	1.33	4.13	0.66
11RAYAZ080A02	Rock	1.1	1.1	5.6	<1	359.7	<0.1	1.8	0.8	181	<0.5	32.7	7.8	4.2	8.8	1.09	4.1	1.16	0.46	1.32	0.26
11RAYAZ088B02	Rock	2.2	9.2	6.8	1	442.0	0.5	2.1	0.9	359	1.9	82.0	28.9	9.5	25.2	3.21	16.3	4.17	1.33	4.76	0.81
11RAYAZ092A02	Rock	2.8	3.2	26.7	<1	1335	0.1	2.7	1.0	40	<0.5	114.2	4.4	11.7	23.5	2.82	11.5	2.36	0.61	1.68	0.20
11RAYAZ094A02	Rock	2.6	12.1	193.9	2	55.6	1.3	12.5	3.9	<8	2.8	57.2	11.1	9.6	19.3	2.30	9.4	2.26	0.45	1.87	0.31
11RAYAZ102A02	Rock	2.8	19.1	300.6	1	193.5	2.3	25.5	12.1	10	<0.5	77.3	12.3	14.4	30.0	2.82	9.7	1.78	0.34	1.55	0.26
11RAYAZ105A02	Rock	3.5	8.6	103.4	2	225.4	0.7	16.7	4.6	35	<0.5	120.3	23.0	35.7	66.0	6.61	23.4	4.12	0.74	3.67	0.56
11RAYAZ106A02	Rock	3.4	4.6	74.2	<1	252.2	0.5	17.4	4.6	44	<0.5	110.9	9.2	18.3	29.8	2.80	8.5	1.45	0.42	1.33	0.21
11RAYAZ107A02	Rock	2.1	4.4	47.8	<1	307.0	0.3	2.4	0.9	226	<0.5	71.7	20.4	13.1	27.7	3.63	16.3	3.73	1.11	3.89	0.59
11RAYAZ109A02	Rock	2.0	1.8	34.8	<1	1188	<0.1	0.4	0.2	10	<0.5	59.5	1.5	1.1	2.2	0.23	1.0	0.19	0.08	0.20	0.03
11RAYAZ113B02	Rock	2.5	4.3	66.4	<1	266.9	0.3	3.1	1.5	242	0.7	75.9	25.2	11.7	24.4	3.34	14.5	3.65	1.09	4.36	0.73
11RAYAZ119A02	Rock	1.7	6.5	45.2	1	832.3	0.4	2.1	0.6	204	<0.5	64.7	17.9	16.1	33.4	4.54	20.0	4.10	1.28	4.07	0.59
11RAYAZ122A02	Rock	2.2	9.9	86.6	2	593.2	0.7	6.9	2.7	260	<0.5	71.3	31.8	29.8	64.3	8.20	34.6	7.38	1.75	7.12	1.05
11RAYAZ125A03	Rock	5.8	10.7	93.5	2	961.6	0.6	16.8	5.0	44	1.1	216.4	30.4	55.8	98.2	11.44	45.7	8.08	1.81	6.48	0.94
11RAYAZ127B01	Rock	2.9	10.8	15.6	1	211.0	0.7	0.9	0.3	340	<0.5	105.9	28.4	9.4	20.8	2.92	14.3	3.58	1.29	4.51	0.81
11RAYAZ132B02	Rock	3.0	4.3	13.3	<1	249.1	0.3	1.3	0.5	280	0.7	99.3	28.6	7.7	17.7	2.61	11.6	3.58	1.26	4.63	0.78
11RAYAZ133A02	Rock	4.4	11.0	122.2	5	295.5	0.9	20.9	6.5	9	0.9	169.8	13.4	38.3	72.6	6.93	22.7	3.34	0.80	2.56	0.38
11RAYAZ138A02	Rock	2.6	8.1	188.8	<1	74.0	1.1	16.1	6.3	<8	0.8	60.3	14.6	12.9	23.4	2.70	9.0	2.27	0.34	2.16	0.38
11RAYAZ148A02	Rock	3.0	8.4	59.4	1	580.2	0.3	0.4	0.5	112	<0.5	123.4	20.2	13.9	31.9	4.52	21.3	4.50	1.21	4.07	0.65
11RAYAZ149A02	Rock	4.4	7.7	66.0	2	619.3	0.3	1.1	0.6	178	<0.5	166.1	25.5	20.4	45.3	5.89	23.5	5.13	1.37	5.00	0.78

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Part: 3 of 1

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Method	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B 2A	Leco 2A	Leco	
Analyte	Dy	Ho	Er	Tm	Yb	Lu	TOT/C	TOT/S	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.05	0.02	0.03	0.01	0.05	0.01	0.02	0.02	
11RAYAZ043B01	Rock	2.20	0.51	1.51	0.21	1.55	0.20	<0.02	<0.02
11RAYAZ051A02	Rock	5.53	1.39	4.38	0.63	4.06	0.58	0.03	<0.02
11RAYAZ052A02	Rock	2.78	0.61	1.59	0.28	1.73	0.26	<0.02	<0.02
11RAYAZ053A02	Rock	3.27	0.72	2.24	0.34	2.51	0.37	<0.02	<0.02
11RAYAZ053B02	Rock	2.20	0.48	1.53	0.23	1.55	0.24	0.03	0.06
11RAYAZ057A02	Rock	3.92	0.80	2.33	0.30	2.11	0.32	<0.02	<0.02
11RAYAZ059B02	Rock	3.60	0.74	2.15	0.27	2.17	0.32	2.01	<0.02
11RAYAZ066A02	Rock	6.67	1.43	4.39	0.64	3.91	0.63	<0.02	<0.02
11RAYAZ067A01	Rock	6.14	1.31	4.00	0.62	4.08	0.62	<0.02	<0.02
11RAYAZ068A02	Rock	2.27	0.44	1.40	0.24	1.65	0.26	0.03	<0.02
11RAYAZ076A02	Rock	3.38	0.75	2.23	0.29	1.96	0.30	0.04	<0.02
11RAYAZ080A02	Rock	1.42	0.38	0.92	0.15	0.99	0.14	<0.02	<0.02
11RAYAZ088B02	Rock	4.87	1.02	3.06	0.42	2.74	0.40	<0.02	<0.02
11RAYAZ092A02	Rock	0.81	0.15	0.35	0.06	0.39	0.05	0.03	<0.02
11RAYAZ094A02	Rock	1.76	0.35	1.16	0.17	1.23	0.19	0.07	<0.02
11RAYAZ102A02	Rock	1.58	0.36	1.30	0.21	1.69	0.28	<0.02	<0.02
11RAYAZ105A02	Rock	3.37	0.80	2.39	0.37	2.46	0.39	<0.02	<0.02
11RAYAZ106A02	Rock	1.45	0.30	0.87	0.15	1.05	0.18	<0.02	<0.02
11RAYAZ107A02	Rock	3.54	0.68	2.04	0.30	1.88	0.29	<0.02	<0.02
11RAYAZ109A02	Rock	0.21	0.04	0.16	0.02	0.22	0.03	<0.02	<0.02
11RAYAZ113B02	Rock	4.16	0.86	2.56	0.37	2.35	0.34	<0.02	<0.02
11RAYAZ119A02	Rock	3.22	0.63	1.89	0.28	1.73	0.25	0.13	0.11
11RAYAZ122A02	Rock	6.10	1.19	3.22	0.47	3.04	0.41	0.17	0.09
11RAYAZ125A03	Rock	5.19	1.01	3.07	0.48	3.15	0.50	<0.02	<0.02
11RAYAZ127B01	Rock	4.96	1.01	3.05	0.46	3.10	0.43	0.02	<0.02
11RAYAZ132B02	Rock	4.66	0.99	2.93	0.46	2.66	0.41	0.05	<0.02
11RAYAZ133A02	Rock	2.21	0.43	1.42	0.22	1.73	0.27	<0.02	<0.02
11RAYAZ138A02	Rock	2.36	0.46	1.47	0.23	1.66	0.24	<0.02	<0.02
11RAYAZ148A02	Rock	3.47	0.72	1.96	0.30	2.03	0.28	<0.02	<0.02
11RAYAZ149A02	Rock	4.70	0.96	2.62	0.38	2.64	0.36	<0.02	0.02



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

Project: Stevenson Ridge
 Report Date: November 26, 2012

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CERTIFICATE OF ANALYSIS

VAN11006014R.1

Method Analyte	Unit	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	
		SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ni	Sc	LOI	Sum	Ba	Be	Co	Cs	Ga
MDL		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	0.5
11RAYAZ150A02	Rock	65.03	15.00	4.36	1.82	2.40	3.19	4.62	0.41	0.21	0.06	0.008	30	6	2.5	99.61	1751	2	8.7	9.1	18.3
11RAYAZ152A02	Rock	66.77	15.37	5.11	1.54	4.00	2.80	2.42	0.46	0.23	0.11	<0.002	<20	11	1.0	99.76	1141	1	7.8	2.0	17.7
11RAYAZ153A02	Rock	59.32	17.65	6.79	2.63	5.84	2.74	1.66	0.72	0.39	0.12	<0.002	<20	17	1.8	99.66	1656	<1	13.4	0.7	19.1
11RAYAZ154A02	Rock	47.19	15.95	12.53	5.85	8.08	3.19	1.44	2.84	0.70	0.19	0.006	42	24	1.6	99.61	787	2	39.8	2.1	20.9
11RAYAZ158A02	Rock	76.20	11.87	3.05	0.78	0.33	4.14	2.41	0.25	0.05	0.03	<0.002	<20	12	0.7	99.80	1249	<1	1.8	0.3	16.5
11RAYAZ160A01	Rock	96.60	2.00	0.24	0.06	<0.01	<0.01	0.55	0.12	0.02	<0.01	<0.002	<20	1	0.4	99.99	133	<1	0.2	0.3	2.3
11RAYAZ163A02	Rock	84.65	7.32	2.40	0.67	0.96	1.30	1.02	0.31	0.07	0.08	0.004	<20	4	0.9	99.71	305	<1	4.8	1.0	8.7
11RAYAZ164A02	Rock	81.25	9.02	0.84	0.21	0.02	0.13	6.90	0.12	<0.01	0.02	<0.002	<20	7	1.1	99.57	490	<1	0.3	0.3	10.5
11RAYAZ166B2	Rock	47.90	16.67	8.28	9.35	13.56	1.82	0.26	0.77	0.05	0.13	0.088	204	38	1.0	99.84	59	<1	41.7	0.1	15.4
11RAYAZ26A01	Rock	64.22	16.03	3.95	1.27	2.07	4.47	5.58	0.52	0.27	0.07	0.004	29	4	0.8	99.23	1008	9	6.8	9.5	21.5
11RAYAZ29A02	Rock	55.59	15.12	6.89	5.16	6.45	2.92	3.41	0.70	0.36	0.14	0.020	29	22	2.5	99.31	1396	<1	23.6	0.8	16.3
11RAYAZ220A02	Rock	46.54	18.26	10.44	6.18	10.63	3.34	0.69	1.78	0.22	0.15	0.037	81	33	1.1	99.40	104	<1	40.0	0.4	18.7
11RAYAZ228A02	Rock	54.24	17.63	8.12	4.42	2.12	2.76	4.28	1.06	0.39	0.07	<0.002	32	12	4.0	99.11	1917	7	8.6	5.1	19.4
11RAYAZ234B02	Rock	67.83	17.63	1.20	0.05	3.48	8.40	0.05	0.25	0.04	0.02	0.005	46	2	0.9	99.86	15	<1	1.4	<0.1	18.1
11RAYAZ258A02	Rock	59.85	17.20	4.89	6.02	0.85	6.68	0.14	0.62	0.34	0.12	<0.002	<20	9	3.1	99.82	201	3	9.5	0.2	18.0
11RAYAZ258B02	Rock	49.26	18.41	8.33	6.95	4.88	5.75	0.31	1.66	0.34	0.16	0.026	66	23	3.3	99.39	273	2	34.2	0.5	16.8
11RAYAZ259A02	Rock	46.17	17.77	9.75	9.79	13.27	0.61	0.08	0.30	<0.01	0.17	0.003	59	47	1.6	99.55	60	<1	48.5	<0.1	13.2
11RAYAZ260A02	Rock	47.01	17.86	7.99	10.43	12.84	1.03	0.31	0.17	<0.01	0.14	0.004	54	55	1.7	99.53	150	<1	43.3	1.7	11.5
11RAYAZ265A03	Rock	50.06	13.61	7.96	10.88	13.04	1.10	0.46	0.27	<0.01	0.15	0.024	86	44	2.0	99.54	319	1	46.6	12.3	11.2
11RAYAZ267A02	Rock	57.59	15.02	8.59	4.12	7.79	1.58	2.03	0.92	0.29	0.09	0.025	61	19	1.7	99.75	1138	<1	22.3	2.8	17.0
11RAYAZ278A02	Rock	68.88	13.06	3.00	2.00	3.89	3.57	0.73	0.47	0.11	0.08	<0.002	30	18	3.6	99.41	964	1	7.9	0.3	12.0
11RAYAZ282A02	Rock	73.18	13.65	1.45	0.32	1.23	3.38	4.86	0.17	0.02	0.04	<0.002	31	1	1.1	99.40	1262	1	1.3	8.4	12.3
11RAYAZ299A02	Rock	49.13	16.65	9.97	6.33	8.23	3.93	1.25	1.51	0.41	0.18	0.022	76	28	1.9	99.53	524	2	33.1	0.3	16.6
11RAYAZ300A02	Rock	68.32	14.41	4.02	1.66	3.45	3.35	1.77	0.36	0.10	0.09	<0.002	38	11	1.9	99.40	625	2	8.7	0.3	13.6
11RAYAZ302A02	Rock	76.27	12.28	1.32	1.17	0.30	2.57	3.88	0.09	<0.01	0.01	<0.002	<20	1	1.7	99.58	613	<1	1.0	1.1	10.9
11RAYAZ305A02	Rock	69.16	14.03	3.36	1.25	2.95	2.08	4.14	0.61	0.10	0.04	0.005	<20	6	2.0	99.74	754	4	5.0	5.2	17.9
11RAYAZ307A02	Rock	73.05	13.22	1.82	0.77	1.02	3.05	5.55	0.31	0.15	0.02	0.004	32	4	0.8	99.76	1167	3	2.3	3.6	13.6
11RAYAZ309A02	Rock	76.64	12.53	1.18	0.11	0.46	3.05	4.66	0.06	0.01	0.04	<0.002	24	<1	0.7	99.44	162	4	0.6	1.8	13.4
11RAYAZ312A02	Rock	54.13	16.70	6.91	6.89	8.27	2.74	1.57	0.71	0.15	0.15	0.031	65	28	1.5	99.78	894	1	26.0	4.5	14.8
11RAYAZ316A02	Rock	64.75	14.76	5.57	2.11	5.85	1.01	2.39	0.85	0.09	0.07	0.012	32	12	2.0	99.50	470	1	7.6	3.4	19.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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CERTIFICATE OF ANALYSIS

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Method	Analyte	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	
		Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.1	0.1	0.1	1	0.5	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	
11RAYAZ150A02	Rock	5.3	15.1	187.0	2	782.0	1.1	20.1	7.4	58	4.0	204.3	15.6	42.0	75.0	7.92	28.2	4.73	1.12	3.82	0.53
11RAYAZ152A02	Rock	2.9	9.0	82.7	3	359.5	0.7	17.7	1.5	68	<0.5	109.6	18.9	28.0	55.1	5.63	20.2	3.83	0.87	3.63	0.56
11RAYAZ153A02	Rock	3.1	7.0	50.0	2	516.5	0.4	5.2	1.4	129	<0.5	123.0	19.3	20.1	38.2	4.55	17.3	3.76	1.04	3.71	0.59
11RAYAZ154A02	Rock	5.9	28.9	41.2	3	646.3	1.7	3.5	1.2	248	0.7	258.6	36.9	34.1	76.8	9.97	40.8	8.96	2.62	8.72	1.32
11RAYAZ158A02	Rock	6.1	11.0	68.4	2	72.3	0.7	12.3	2.6	<8	0.5	208.1	25.0	34.7	69.8	7.98	30.6	6.06	1.18	5.39	0.82
11RAYAZ160A01	Rock	4.1	2.3	18.0	<1	9.1	0.1	4.6	1.0	<8	<0.5	157.5	3.5	7.7	16.6	1.76	6.6	1.03	0.15	0.72	0.11
11RAYAZ163A02	Rock	8.2	7.5	43.3	<1	163.9	0.5	11.0	1.6	37	0.6	318.8	10.9	22.3	47.7	4.88	18.5	2.97	0.70	2.36	0.36
11RAYAZ164A02	Rock	5.9	9.8	62.6	1	20.1	0.8	11.0	2.6	<8	0.5	200.8	26.7	31.3	64.0	7.62	30.3	6.02	1.12	5.83	1.00
11RAYAZ166B2	Rock	1.2	3.3	2.5	<1	228.6	0.2	0.3	<0.1	247	0.8	38.9	11.2	3.3	7.7	1.16	5.6	1.66	0.73	2.15	0.39
11RAYAZ426A01	Rock	9.4	27.6	292.6	3	632.6	2.1	27.5	4.5	61	1.9	309.5	22.0	50.0	89.3	9.17	31.0	5.40	0.81	4.33	0.69
11RAYAZ429A02	Rock	3.3	7.9	109.6	2	720.7	0.4	5.4	2.1	192	1.3	123.6	21.5	20.5	41.9	4.95	18.6	4.22	1.18	4.09	0.70
11RAYAZ220A02	Rock	3.8	7.7	11.5	2	362.2	0.6	0.5	0.3	284	<0.5	138.4	25.2	9.2	23.4	3.42	15.7	4.22	1.55	4.66	0.85
11RAYAZ228A02	Rock	8.8	30.4	186.5	4	342.1	1.6	25.3	6.2	83	2.4	322.7	43.0	58.6	119.2	13.76	52.6	10.72	2.65	8.86	1.39
11RAYAZ234B02	Rock	8.4	24.0	0.7	3	145.4	1.7	14.3	2.7	53	0.7	184.2	93.6	23.1	80.7	11.00	47.9	11.97	1.21	12.65	2.42
11RAYAZ258A02	Rock	5.9	14.3	2.4	<1	75.7	0.6	27.8	8.4	105	1.0	220.6	22.7	34.8	79.9	6.86	26.0	4.69	1.16	4.27	0.73
11RAYAZ258B02	Rock	4.6	12.9	7.7	2	258.0	0.8	2.0	0.7	190	0.8	212.0	27.2	18.3	40.8	5.26	22.7	5.05	1.65	5.22	0.87
11RAYAZ259A02	Rock	<0.1	<0.1	0.9	<1	157.5	<0.1	<0.2	<0.1	320	<0.5	1.7	4.8	0.5	0.6	0.10	0.4	0.32	0.56	0.56	0.12
11RAYAZ260A02	Rock	<0.1	<0.1	11.1	<1	164.0	<0.1	<0.2	<0.1	237	<0.5	1.4	2.6	0.4	0.6	0.05	0.6	0.18	0.09	0.28	0.06
11RAYAZ265A03	Rock	0.6	0.7	18.7	1	392.6	<0.1	0.8	0.6	207	<0.5	16.8	8.1	5.2	10.9	1.49	6.3	1.58	0.54	1.61	0.29
11RAYAZ267A02	Rock	5.2	13.7	89.2	3	177.7	0.9	16.9	3.8	121	1.1	186.0	21.1	47.6	96.4	9.64	36.9	6.09	1.47	4.92	0.73
11RAYAZ278A02	Rock	2.3	3.4	15.9	3	146.2	0.2	2.7	1.3	85	<0.5	70.4	22.7	9.6	20.7	2.63	11.7	2.90	0.73	3.29	0.62
11RAYAZ282A02	Rock	3.6	11.4	162.0	<1	165.6	0.8	22.2	2.8	12	0.5	110.7	6.1	13.2	23.2	2.32	7.4	1.28	0.36	1.13	0.18
11RAYAZ299A02	Rock	4.1	6.2	23.9	1	350.0	0.4	1.6	0.4	266	1.0	162.5	31.6	18.1	44.5	6.03	27.0	6.09	1.96	6.31	1.05
11RAYAZ300A02	Rock	2.6	4.8	50.4	1	353.4	0.3	4.7	1.4	87	<0.5	97.3	10.8	14.6	28.0	3.08	10.7	2.08	0.65	1.83	0.32
11RAYAZ302A02	Rock	3.3	13.0	110.4	3	73.3	1.3	27.8	2.3	<8	1.1	92.8	6.5	19.6	42.7	3.35	10.3	1.80	0.20	1.26	0.20
11RAYAZ305A02	Rock	7.2	18.1	191.6	3	352.1	1.4	31.8	6.4	39	1.7	243.9	24.6	72.9	141.8	14.00	48.6	8.00	1.19	5.65	0.90
11RAYAZ307A02	Rock	5.9	16.1	187.8	2	159.9	1.5	23.3	3.6	19	1.2	177.8	14.9	27.8	58.0	5.17	15.5	2.85	0.49	2.26	0.42
11RAYAZ309A02	Rock	3.8	14.7	220.1	2	43.9	1.1	35.4	2.7	<8	<0.5	92.7	13.0	28.8	54.2	5.49	17.4	3.16	0.22	3.10	0.41
11RAYAZ312A02	Rock	1.9	5.6	89.3	1	423.0	0.5	6.7	2.8	168	0.8	51.3	21.3	14.6	27.2	3.48	14.5	3.42	0.95	3.57	0.62
11RAYAZ316A02	Rock	6.9	14.8	113.4	3	798.8	1.1	13.4	2.8	85	<0.5	247.5	27.2	36.6	78.8	8.74	35.4	6.30	1.47	5.32	0.84

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Method	Analyte	4A-4B Dy	4A-4B Ho	4A-4B Er	4A-4B Tm	4A-4B Yb	4A-4B 2A Lu	Leco 2A TOT/C	Leco 2A TOT/S
Unit		ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.05	0.02	0.03	0.01	0.05	0.01	0.02	0.02
11RAYAZ150A02	Rock	2.79	0.53	1.51	0.21	1.53	0.22	0.15	<0.02
11RAYAZ152A02	Rock	3.29	0.66	1.92	0.29	1.96	0.31	0.03	<0.02
11RAYAZ153A02	Rock	3.65	0.72	1.93	0.29	1.97	0.28	0.03	<0.02
11RAYAZ154A02	Rock	7.35	1.44	4.11	0.58	3.56	0.53	<0.02	<0.02
11RAYAZ158A02	Rock	4.63	0.95	3.19	0.52	3.44	0.53	<0.02	0.02
11RAYAZ160A01	Rock	0.64	0.10	0.41	0.06	0.47	0.07	<0.02	<0.02
11RAYAZ163A02	Rock	1.89	0.45	1.37	0.23	1.65	0.25	0.02	<0.02
11RAYAZ164A02	Rock	5.59	1.10	3.30	0.52	3.55	0.51	<0.02	<0.02
11RAYAZ166B2	Rock	2.30	0.47	1.27	0.20	1.23	0.17	<0.02	<0.02
11RAYAZ426A01	Rock	4.05	0.80	2.62	0.41	2.80	0.43	<0.02	<0.02
11RAYAZ429A02	Rock	3.64	0.78	2.25	0.34	2.09	0.33	0.10	<0.02
11RAYAZ220A02	Rock	4.65	0.97	2.87	0.41	2.28	0.37	<0.02	<0.02
11RAYAZ228A02	Rock	7.68	1.48	4.60	0.69	4.42	0.65	0.07	<0.02
11RAYAZ234B02	Rock	14.10	3.30	11.29	1.78	11.75	1.71	0.04	<0.02
11RAYAZ258A02	Rock	3.99	1.07	2.79	0.41	2.71	0.38	<0.02	<0.02
11RAYAZ258B02	Rock	4.90	1.04	2.98	0.44	2.71	0.40	0.21	<0.02
11RAYAZ259A02	Rock	0.81	0.20	0.60	0.09	0.53	0.08	<0.02	0.03
11RAYAZ260A02	Rock	0.42	0.10	0.32	0.04	0.32	0.06	0.03	<0.02
11RAYAZ265A03	Rock	1.55	0.33	0.97	0.13	0.91	0.13	0.07	<0.02
11RAYAZ267A02	Rock	3.38	0.84	2.51	0.33	1.99	0.31	<0.02	<0.02
11RAYAZ278A02	Rock	3.89	0.87	2.73	0.43	2.78	0.40	0.49	0.06
11RAYAZ282A02	Rock	0.90	0.19	0.70	0.13	0.78	0.15	<0.02	<0.02
11RAYAZ299A02	Rock	5.89	1.21	3.56	0.49	2.97	0.48	<0.02	<0.02
11RAYAZ300A02	Rock	1.96	0.35	1.10	0.17	1.12	0.17	<0.02	<0.02
11RAYAZ302A02	Rock	0.99	0.23	0.84	0.13	1.01	0.17	<0.02	<0.02
11RAYAZ305A02	Rock	4.75	0.91	2.56	0.37	2.36	0.30	0.07	<0.02
11RAYAZ307A02	Rock	2.45	0.54	1.74	0.29	1.66	0.32	<0.02	<0.02
11RAYAZ309A02	Rock	2.21	0.46	1.46	0.24	1.75	0.25	<0.02	<0.02
11RAYAZ312A02	Rock	3.56	0.74	2.25	0.38	2.34	0.34	0.04	<0.02
11RAYAZ316A02	Rock	4.55	0.94	2.66	0.41	2.57	0.39	<0.02	0.05



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		SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ni	Sc	LOI	Sum	Ba	Be	Co	Cs	Ga
MDL		0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	ppm	ppm	-5.1	0.01	ppm	ppm	ppm	ppm	
11RAYAZ319A02	Rock	67.23	14.85	4.79	1.75	4.08	3.17	1.87	0.34	0.01	0.09	<0.002	21	13	1.3	99.49	509	1	10.3	0.8	12.6
11RAYAZ321A02	Rock	43.63	14.93	12.33	9.20	10.98	2.83	1.18	1.65	1.28	0.11	0.002	27	35	1.5	99.59	406	2	46.4	0.6	16.9
11RAYAZ324B02	Rock	54.32	17.10	10.43	3.67	6.69	3.79	0.28	1.23	0.32	0.20	<0.002	<20	26	1.3	99.33	89	2	24.6	1.3	20.3
11RAYAZ324D02	Rock	51.38	14.00	9.87	9.72	9.18	1.69	0.26	0.50	0.47	0.50	0.051	54	49	1.9	99.52	26	2	40.8	0.4	19.6
11RAYAZ333A02	Rock	59.10	16.78	6.19	2.25	5.54	4.55	2.48	0.56	0.28	0.12	<0.002	34	13	1.5	99.31	2342	<1	10.1	0.2	17.6
11RAYAZ338A02	Rock	55.42	15.83	9.11	5.37	7.30	2.86	1.38	0.59	0.07	0.14	0.009	23	30	1.6	99.63	451	<1	28.8	0.1	13.7
11RAYAZ343A02	Rock	63.96	15.29	5.62	2.40	4.88	2.91	2.12	0.45	0.05	0.09	<0.002	29	15	1.8	99.56	801	2	13.1	0.9	13.5
11RAYAZ347A02	Rock	57.84	16.78	7.52	3.81	6.25	2.65	2.24	0.78	0.17	0.13	0.003	42	22	1.0	99.18	2569	1	17.7	3.5	16.9
11RAYAZ357B02	Rock	44.05	18.04	12.51	6.28	12.41	0.86	0.26	1.89	0.37	0.24	0.003	45	41	2.4	99.27	69	1	32.5	0.3	16.7
11RAYAZ360A02	Rock	73.10	12.84	2.48	0.92	1.32	2.41	4.72	0.39	0.09	0.02	0.007	<20	5	1.1	99.43	1191	<1	4.2	4.8	13.7
11RAYAZ361A02	Rock	73.14	14.00	1.81	0.57	1.72	3.70	3.60	0.21	0.02	0.06	<0.002	<20	7	0.6	99.45	860	3	2.3	2.5	14.1
11RAYAZ368A02	Rock	71.16	13.52	4.00	1.41	2.44	2.53	3.18	0.51	0.02	0.05	0.013	61	12	0.7	99.52	1479	2	7.7	4.9	14.4
11RAYAZ373A02	Rock	74.36	11.94	3.76	1.25	2.19	2.00	2.60	0.48	0.14	0.07	0.005	<20	9	0.9	99.73	1750	1	4.5	2.1	17.0
11RAYAZ382A02	Rock	74.42	13.78	1.59	0.57	1.93	4.33	2.56	0.22	0.06	0.03	<0.002	<20	6	0.4	99.90	411	2	1.8	2.6	18.8
11RAYAZ384A02	Rock	69.59	14.93	3.06	1.01	2.56	3.47	3.55	0.35	0.15	0.08	<0.002	<20	5	1.0	99.72	1660	3	4.9	3.3	16.1
11RAYAZ387B02	Rock	60.73	16.97	6.17	3.24	5.72	3.70	1.47	0.72	0.23	0.10	0.006	<20	16	0.5	99.60	2065	3	14.9	1.5	18.6
11RAYAZ405A02	Rock	51.19	12.83	10.06	8.91	6.53	2.21	3.10	0.90	0.49	0.16	0.071	98	24	3.0	99.48	1895	1	39.0	3.1	15.7
11RAYAZ412A02	Rock	68.20	15.97	3.66	0.87	3.39	3.34	2.62	0.37	0.12	0.04	<0.002	<20	5	0.5	99.08	7107	2	4.2	3.1	15.7
11RAYAZ413A02	Rock	75.36	13.09	1.58	0.22	0.80	3.34	4.65	0.16	0.03	0.02	<0.002	<20	3	0.6	99.89	681	2	1.5	2.0	14.7
11RAYAZ415A02	Rock	66.55	15.36	5.10	2.07	4.47	3.54	1.56	0.43	0.10	0.09	<0.002	<20	15	0.5	99.83	626	<1	13.2	0.4	13.8
11RAYCR013B01	Rock	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11RAYCR013B02	Rock	76.17	12.38	0.95	0.72	0.65	1.52	5.37	0.08	0.02	0.02	<0.002	<20	1	2.0	99.87	810	2	0.6	0.5	12.3
11RAYCR030A02	Rock	75.28	13.67	0.93	0.24	0.89	3.68	4.83	0.09	0.03	0.06	<0.002	<20	3	0.2	99.92	447	6	1.4	26.2	15.6
11RAYCR036A02	Rock	74.40	13.66	1.33	0.42	1.39	3.59	4.34	0.16	0.05	0.06	<0.002	<20	3	0.5	99.90	486	3	2.4	11.0	13.8
11RAYCR047A02	Rock	50.01	13.01	8.58	11.01	6.96	3.03	2.75	0.75	0.39	0.14	0.080	272	22	2.8	99.56	1029	<1	33.4	1.9	14.5
11RAYCR056B02	Rock	62.61	15.60	4.73	2.01	3.94	3.32	4.50	0.53	0.28	0.10	0.003	<20	10	2.1	99.66	1573	2	11.0	3.2	16.8
11RAYJC047A02	Rock	66.56	15.17	3.72	1.41	2.56	3.35	5.46	0.52	0.19	0.06	0.002	<20	6	0.8	99.74	960	<1	5.7	8.4	16.7
11RAYJC050A02	Rock	53.81	16.92	8.85	3.02	6.43	3.39	3.74	1.04	0.56	0.11	0.004	25	13	1.7	99.60	1490	<1	31.4	6.1	17.0
11RAYJC052A02	Rock	56.89	17.26	5.59	2.79	3.76	3.62	6.22	0.87	0.63	0.09	0.008	29	8	1.8	99.56	1459	3	2.9	2.0	18.5
11RAYJC054A02	Rock	62.26	16.91	5.78	2.44	4.81	3.96	1.06	0.58	0.15	0.13	0.004	<20	13	1.7	99.77	730	<1	11.2	5.6	16.0

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.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Geological Survey of Canada**
 Room 659 - 601 Booth St.
 Ottawa ON K1A 0E8 Canada

Project: Stevenson Ridge
 Report Date: November 26, 2012

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Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN11006014R.1

Method Analyte	Unit	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	
		Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		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	
11RAYAZ319A02	Rock	2.4	6.5	57.9	<1	255.9	0.5	9.0	2.7	108	<0.5	77.3	11.0	16.4	30.9	3.39	12.3	2.19	0.56	1.92	0.32
11RAYAZ321A02	Rock	1.2	7.4	20.0	1	728.9	0.3	0.3	0.2	359	<0.5	34.7	9.9	6.8	19.1	3.06	14.5	4.03	1.32	3.89	0.51
11RAYAZ324B02	Rock	3.6	11.2	8.0	<1	618.2	0.6	2.1	0.8	253	<0.5	141.1	25.2	19.8	43.3	5.33	21.3	4.73	1.39	4.69	0.76
11RAYAZ324D02	Rock	1.1	31.8	2.1	<1	118.3	1.5	2.5	10.2	147	0.9	34.1	19.6	8.2	16.2	2.02	8.9	2.15	0.68	2.37	0.47
11RAYAZ333A02	Rock	3.1	6.0	25.2	1	1077	0.3	4.3	0.3	136	<0.5	122.3	17.0	20.6	43.5	4.99	19.9	3.90	1.11	3.42	0.53
11RAYAZ338A02	Rock	2.5	2.2	35.8	<1	271.3	0.1	2.8	0.8	236	<0.5	88.2	11.7	9.5	18.8	2.37	10.4	2.15	0.60	2.40	0.37
11RAYAZ343A02	Rock	3.7	6.4	58.6	<1	330.1	0.4	7.5	2.2	109	<0.5	121.3	16.5	19.0	37.7	3.91	15.2	2.97	0.71	2.60	0.45
11RAYAZ347A02	Rock	3.6	5.7	73.1	<1	506.4	0.3	6.2	1.9	178	0.7	141.9	15.1	21.2	37.7	4.09	15.0	3.12	0.99	2.98	0.49
11RAYAZ357B02	Rock	0.3	6.3	6.5	<1	639.0	0.5	<0.2	0.1	358	0.7	11.5	11.4	9.5	19.9	2.78	13.3	2.85	1.19	2.86	0.42
11RAYAZ360A02	Rock	5.7	10.8	162.7	4	169.7	1.2	12.2	3.2	23	<0.5	165.4	22.2	19.3	40.2	4.80	18.1	4.12	0.52	3.61	0.65
11RAYAZ361A02	Rock	3.0	11.4	134.5	2	133.0	0.9	12.0	2.6	27	<0.5	81.5	26.4	19.7	41.2	4.54	16.3	4.12	0.47	3.91	0.74
11RAYAZ368A02	Rock	3.9	9.6	119.7	2	221.8	0.7	11.5	2.4	53	0.9	128.3	17.8	29.7	57.7	6.50	23.2	4.03	0.80	3.50	0.58
11RAYAZ373A02	Rock	3.6	10.5	96.1	1	173.5	0.8	10.1	3.9	109	1.0	129.1	19.3	26.6	51.7	5.90	22.2	3.99	0.86	3.53	0.64
11RAYAZ382A02	Rock	3.9	10.5	94.0	4	224.5	1.0	20.7	3.0	26	2.3	114.5	23.5	30.4	58.1	6.18	21.9	4.50	0.61	4.17	0.75
11RAYAZ384A02	Rock	3.9	13.4	120.5	2	436.8	1.2	18.2	6.0	50	3.0	146.9	16.2	31.9	55.1	5.65	19.2	3.54	0.81	3.16	0.51
11RAYAZ387B02	Rock	3.7	9.3	56.1	1	542.8	0.6	8.5	3.2	143	<0.5	151.7	18.0	24.3	48.8	5.52	20.7	4.08	1.06	3.53	0.63
11RAYAZ405A02	Rock	3.3	8.8	115.4	2	491.6	0.4	3.6	1.3	221	1.6	122.6	22.2	20.7	44.8	5.27	21.4	5.09	1.37	4.68	0.83
11RAYAZ412A02	Rock	4.9	9.1	68.4	<1	587.9	0.3	19.8	2.1	37	<0.5	201.2	6.6	69.3	112.1	10.54	31.6	3.81	1.33	2.31	0.27
11RAYAZ413A02	Rock	4.4	9.1	149.5	3	100.6	0.8	23.5	4.3	16	0.8	146.1	18.1	41.7	82.6	8.81	30.7	5.25	0.39	3.82	0.66
11RAYAZ415A02	Rock	2.2	4.8	46.5	<1	348.4	0.2	7.6	1.3	110	0.6	92.0	12.2	19.6	38.3	3.85	14.5	2.64	0.65	2.29	0.40
11RAYCR013B01	Rock	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11RAYCR013B02	Rock	3.4	14.9	160.0	4	107.5	1.5	32.3	4.1	<8	3.1	92.5	15.4	38.2	60.8	6.02	18.4	3.05	0.34	2.70	0.46
11RAYCR030A02	Rock	2.8	24.6	429.0	2	138.7	3.0	25.2	12.9	15	<0.5	58.7	8.1	12.3	30.0	2.26	6.5	1.10	0.21	0.90	0.18
11RAYCR036A02	Rock	2.5	22.5	311.4	3	162.8	2.4	30.1	9.5	22	<0.5	73.4	14.5	16.9	34.8	3.42	12.2	1.99	0.37	1.83	0.32
11RAYCR047A02	Rock	2.4	5.9	74.2	<1	730.4	0.3	3.0	0.9	166	0.6	88.1	17.3	17.6	38.8	4.82	19.4	4.74	1.32	4.21	0.51
11RAYCR056B02	Rock	3.6	9.6	125.0	1	749.4	0.8	12.4	6.8	108	1.2	127.6	15.7	28.2	52.1	5.55	20.4	3.77	0.97	3.11	0.51
11RAYJC047A02	Rock	7.2	18.5	245.4	2	358.5	1.6	31.1	6.8	74	1.8	248.9	21.3	33.9	65.2	7.51	25.5	4.90	1.07	4.22	0.50
11RAYJC050A02	Rock	3.4	7.6	88.4	<1	965.8	0.6	5.3	2.0	202	1.4	120.8	22.3	23.9	49.7	6.29	23.6	5.77	1.55	5.06	0.63
11RAYJC052A02	Rock	4.2	14.4	152.5	<1	750.0	1.1	13.4	5.0	159	1.7	176.3	17.9	32.5	61.8	7.01	26.5	5.21	1.30	4.03	0.50
11RAYJC054A02	Rock	2.6	6.4	35.1	<1	533.8	0.3	5.5	2.0	101	0.9	102.6	16.9	20.4	37.8	4.62	15.9	3.93	1.07	3.68	0.44

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.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Geological Survey of Canada**
 Room 659 - 601 Booth St.
 Ottawa ON K1A 0E8 Canada

Project: Stevenson Ridge
 Report Date: November 26, 2012

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CERTIFICATE OF ANALYSIS

VAN11006014R.1

Method	Analyte	4A-4B Dy	4A-4B Ho	4A-4B Er	4A-4B Tm	4A-4B Yb	4A-4B 2A Lu	Leco 2A TOT/C %	Leco 2A TOT/S %
Unit		ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.05	0.02	0.03	0.01	0.05	0.01	0.02	0.02
11RAYAZ319A02	Rock	1.97	0.37	1.27	0.20	1.40	0.21	<0.02	<0.02
11RAYAZ321A02	Rock	2.30	0.35	0.99	0.12	0.58	0.09	<0.02	<0.02
11RAYAZ324B02	Rock	4.60	0.86	2.56	0.38	2.55	0.37	<0.02	<0.02
11RAYAZ324D02	Rock	2.91	0.68	2.22	0.34	2.43	0.35	<0.02	<0.02
11RAYAZ333A02	Rock	3.21	0.62	1.96	0.29	1.90	0.27	0.03	<0.02
11RAYAZ338A02	Rock	2.18	0.43	1.32	0.22	1.27	0.20	<0.02	<0.02
11RAYAZ343A02	Rock	2.86	0.59	1.80	0.29	1.95	0.28	0.08	<0.02
11RAYAZ347A02	Rock	2.67	0.54	1.59	0.25	1.68	0.26	0.04	<0.02
11RAYAZ357B02	Rock	2.09	0.41	1.32	0.20	1.07	0.16	<0.02	0.09
11RAYAZ360A02	Rock	3.85	0.75	2.32	0.37	2.43	0.34	0.04	<0.02
11RAYAZ361A02	Rock	4.44	0.88	2.93	0.45	3.07	0.46	<0.02	<0.02
11RAYAZ368A02	Rock	3.12	0.64	1.90	0.29	1.76	0.29	<0.02	<0.02
11RAYAZ373A02	Rock	3.23	0.73	2.04	0.32	2.28	0.35	0.18	0.08
11RAYAZ382A02	Rock	4.19	0.87	2.61	0.39	2.43	0.39	<0.02	<0.02
11RAYAZ384A02	Rock	2.81	0.60	1.86	0.28	1.87	0.31	0.09	<0.02
11RAYAZ387B02	Rock	3.07	0.71	1.92	0.31	2.12	0.29	<0.02	<0.02
11RAYAZ405A02	Rock	4.34	0.88	2.56	0.35	2.24	0.34	0.13	0.12
11RAYAZ412A02	Rock	1.16	0.23	0.78	0.12	0.88	0.16	<0.02	<0.02
11RAYAZ413A02	Rock	3.38	0.69	2.16	0.34	2.13	0.35	<0.02	<0.02
11RAYAZ415A02	Rock	2.23	0.43	1.27	0.21	1.21	0.19	<0.02	<0.02
11RAYCR013B01	Rock	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11RAYCR013B02	Rock	2.41	0.55	1.73	0.27	1.78	0.27	0.24	0.15
11RAYCR030A02	Rock	1.10	0.27	0.99	0.18	1.43	0.28	<0.02	<0.02
11RAYCR036A02	Rock	1.86	0.49	1.52	0.26	1.79	0.30	<0.02	<0.02
11RAYCR047A02	Rock	3.40	0.55	1.53	0.24	1.46	0.23	0.02	<0.02
11RAYCR056B02	Rock	2.67	0.58	1.65	0.26	1.72	0.26	0.14	<0.02
11RAYJC047A02	Rock	3.45	0.58	1.86	0.28	1.81	0.27	<0.02	<0.02
11RAYJC050A02	Rock	4.14	0.69	1.84	0.29	1.91	0.29	<0.02	0.70
11RAYJC052A02	Rock	2.70	0.58	1.55	0.25	1.58	0.23	<0.02	<0.02
11RAYJC054A02	Rock	3.14	0.58	1.42	0.24	1.67	0.24	<0.02	0.09



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Geological Survey of Canada**
 Room 659 - 601 Booth St.
 Ottawa ON K1A 0E8 Canada

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 Report Date: November 26, 2012

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CERTIFICATE OF ANALYSIS

VAN11006014R.1

Method	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	
Analyte	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ni	Sc	LOI	Sum	Ba	Be	Co	Cs	Ga	
Unit	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	
MDL	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	0.5	
11RAYJC056A02	Rock	64.05	16.54	4.30	1.83	4.31	3.91	2.08	0.48	0.12	0.09	<0.002	<20	8	2.0	99.73	1007	2	7.5	8.3	16.2
11RAYJC078A02	Rock	55.09	17.01	10.46	5.12	4.46	4.21	0.98	0.83	0.12	0.10	0.004	<20	28	1.4	99.78	339	<1	16.3	0.5	16.7
11RAYJC080A02	Rock	50.78	17.34	9.68	6.14	6.28	3.70	1.62	1.08	0.24	0.17	0.006	31	24	2.7	99.70	845	1	28.1	0.7	15.1
11RAYJC082A02	Rock	69.68	13.94	4.59	1.09	3.70	2.88	2.45	0.44	0.10	0.09	<0.002	<20	9	0.8	99.76	1321	1	6.4	0.6	14.1
11RAYJC100A02	Rock	77.13	12.33	1.22	0.04	0.23	3.75	4.44	0.05	<0.01	0.03	<0.002	<20	1	0.7	99.97	21	7	0.6	5.2	23.2
11RAYJC104A02	Rock	62.14	13.74	6.10	4.23	10.83	0.73	0.26	0.44	0.10	0.21	<0.002	<20	12	1.1	99.85	153	1	15.0	2.1	13.6
11RAYJR017A02	Rock	62.80	16.55	5.58	2.37	5.26	3.10	2.41	0.60	0.19	0.11	<0.002	<20	12	0.7	99.63	1856	4	10.1	1.7	15.6
11RAYJR017B02	Rock	57.90	16.32	7.08	3.72	6.32	3.06	3.14	0.71	0.37	0.14	0.010	28	16	0.8	99.57	2005	2	18.3	2.8	16.4
11RAYJR022A02	Rock	62.12	17.45	4.63	1.50	4.49	4.34	3.12	0.48	0.31	0.10	<0.002	<20	9	0.9	99.48	3216	2	6.9	0.6	17.7
11RAYJR027A02	Rock	61.56	16.73	5.74	2.30	5.64	3.70	1.94	0.57	0.24	0.10	0.003	<20	10	1.1	99.61	1592	3	11.0	0.5	19.0
11RAYJR028A02	Rock	60.51	17.74	5.41	1.87	5.40	4.70	2.34	0.61	0.25	0.12	0.003	<20	10	0.6	99.54	2049	2	7.5	0.3	19.7
11RAYJR053A02	Rock	58.18	15.94	8.06	4.38	7.93	2.29	0.79	0.51	0.08	0.12	0.003	<20	26	1.5	99.78	358	<1	23.1	0.7	15.7
11RAYJR068A02	Rock	67.62	16.06	3.30	1.07	2.40	4.24	3.36	0.38	0.17	0.08	<0.002	<20	4	1.0	99.67	1671	4	4.3	5.6	18.4
11RAYJR087A02	Rock	70.82	14.47	3.10	0.87	3.25	2.78	3.39	0.24	0.06	0.08	<0.002	<20	7	0.8	99.81	1091	2	4.6	1.4	12.4
11RAYJR109A02	Rock	76.99	12.36	1.14	0.06	0.46	3.50	4.82	0.09	<0.01	0.02	<0.002	<20	<1	0.5	99.96	94	4	0.4	20.5	16.8
11RAYJR123A02	Rock	57.46	17.95	7.56	3.37	6.70	3.13	1.35	0.82	0.19	0.15	<0.002	<20	21	1.0	99.71	1196	<1	15.8	2.5	18.5
11RAYJR126A02	Rock	85.58	6.48	2.13	1.07	0.80	1.50	1.49	0.26	0.05	0.03	0.005	<20	7	0.5	99.90	411	<1	5.3	1.0	7.6
11RAYJR147A02	Rock	75.19	13.58	1.32	0.22	0.79	3.60	3.97	0.10	<0.01	0.07	<0.002	<20	2	1.0	99.82	1299	<1	1.7	3.2	13.3
11RAYJR148A02	Rock	61.11	15.53	7.32	1.45	3.54	3.15	3.90	1.14	0.34	0.12	<0.002	<20	12	2.0	99.65	1595	3	10.6	2.7	18.8
11RAYJR149A02	Rock	66.25	15.49	3.79	1.38	3.75	3.18	3.17	0.40	0.16	0.09	<0.002	27	8	1.9	99.58	2118	2	8.1	4.4	15.4
11RAYJR157B02	Rock	58.31	17.65	7.00	3.01	5.82	3.18	2.55	0.82	0.30	0.13	<0.002	25	16	0.8	99.53	2174	<1	15.5	3.5	15.5
11RAYJR160A02	Rock	55.25	15.73	7.21	6.35	5.40	3.02	4.22	0.81	0.32	0.10	0.032	61	24	0.9	99.37	2756	3	27.4	3.4	17.1
11RAYJR169A02	Rock	71.65	14.40	2.31	0.59	1.73	3.59	4.56	0.26	0.12	0.07	<0.002	28	4	0.4	99.66	1697	<1	2.7	2.8	12.8
11RAYJR174A02	Rock	50.46	18.15	7.66	7.00	10.93	3.27	0.25	0.71	0.07	0.12	0.027	70	29	1.1	99.80	57	<1	32.1	1.9	14.8
11RAYJR177A02	Rock	63.60	17.72	4.50	1.34	4.97	4.14	1.98	0.60	0.26	0.09	<0.002	<20	6	0.5	99.67	984	2	4.6	4.0	19.0
11RAYJR179A02	Rock	52.55	17.72	9.89	3.87	8.77	2.82	1.46	1.59	0.30	0.16	0.003	<20	22	0.5	99.67	772	2	25.4	1.9	18.0
11RAYJR185A02	Rock	48.31	14.29	13.22	7.01	11.64	2.15	0.46	1.53	0.09	0.19	0.018	68	40	0.7	99.66	55	<1	48.5	1.3	17.5
11RAYJR198B02	Rock	49.26	14.23	11.87	7.14	9.99	3.12	0.35	1.71	0.20	0.20	0.029	73	43	1.5	99.65	94	<1	44.4	0.2	16.4
11RAYJR199A01	Rock	49.35	17.51	6.30	8.78	12.91	2.20	0.05	0.38	0.01	0.12	0.063	90	35	2.1	99.80	10	<1	32.7	0.1	13.9
11RAYJR204A02	Rock	48.25	14.12	8.00	10.65	15.14	1.20	0.38	0.66	0.03	0.13	0.113	167	40	1.0	99.74	42	<1	42.3	0.6	15.0

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Geological Survey of Canada**
 Room 659 - 601 Booth St.
 Ottawa ON K1A 0E8 Canada

Project: Stevenson Ridge
 Report Date: November 26, 2012

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Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN11006014R.1

Method Analyte	Unit	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B
		Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		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	0.01
11RAYJC056A02	Rock	3.9	5.8	83.6	<1	613.4	0.3	5.9	1.9	67	0.7	150.3	16.5	20.8	39.9	4.53	15.8	3.55	0.98	3.09	0.40
11RAYJC078A02	Rock	2.6	2.6	18.0	<1	274.1	0.2	2.0	0.5	171	<0.5	81.0	21.3	5.8	15.3	1.89	7.7	2.58	0.96	3.61	0.52
11RAYJC080A02	Rock	2.5	5.3	39.8	<1	224.7	0.4	3.0	0.7	189	<0.5	90.7	24.4	16.0	34.6	4.69	20.4	4.42	1.45	5.20	0.67
11RAYJC082A02	Rock	4.4	8.8	59.4	<1	270.5	0.6	9.1	2.5	48	<0.5	153.7	19.1	24.1	48.3	5.42	19.2	3.73	1.04	3.41	0.46
11RAYJC100A02	Rock	7.5	74.7	355.8	9	4.2	4.7	33.6	11.0	<8	3.0	133.9	37.9	12.8	42.9	4.39	16.7	5.21	<0.02	5.74	1.23
11RAYJC104A02	Rock	2.6	7.6	12.9	2	215.9	0.8	11.6	6.0	89	4.4	75.5	16.7	20.5	37.2	3.96	13.4	2.66	0.70	2.61	0.45
11RAYJR017A02	Rock	2.9	9.0	75.0	<1	495.0	0.7	10.1	3.3	104	<0.5	99.6	19.9	30.4	56.6	6.42	20.7	4.70	1.26	4.07	0.51
11RAYJR017B02	Rock	4.0	10.3	101.7	1	743.7	0.7	12.9	5.0	142	1.9	140.4	21.2	33.3	64.9	7.51	29.1	5.51	1.46	4.73	0.73
11RAYJR022A02	Rock	2.9	9.1	59.6	<1	908.5	0.6	3.6	1.0	93	<0.5	101.8	16.4	17.1	35.4	4.28	17.5	3.32	0.90	3.18	0.49
11RAYJR027A02	Rock	3.7	7.8	34.4	<1	916.4	0.7	4.4	0.9	107	<0.5	144.9	17.0	21.7	49.6	5.66	24.8	4.92	1.27	4.25	0.50
11RAYJR028A02	Rock	5.1	10.7	39.0	<1	1000	0.6	3.4	0.9	113	<0.5	185.2	25.1	20.9	46.9	6.29	23.6	5.59	1.46	5.02	0.67
11RAYJR053A02	Rock	1.9	4.2	20.0	<1	330.6	0.2	9.1	1.5	188	<0.5	54.0	19.9	12.3	26.9	3.41	14.3	3.07	0.97	3.30	0.47
11RAYJR068A02	Rock	3.8	10.9	103.2	2	804.2	0.8	9.2	3.2	42	0.7	129.8	12.8	30.1	55.8	6.34	24.1	3.91	1.07	3.16	0.44
11RAYJR087A02	Rock	2.9	7.4	103.9	1	329.0	0.8	13.6	3.5	43	<0.5	92.2	11.0	28.0	50.1	4.52	14.3	2.25	0.62	1.71	0.29
11RAYJR109A02	Rock	4.4	28.6	202.7	1	28.4	1.7	30.3	3.0	<8	0.9	134.0	16.9	23.5	56.8	5.66	19.3	4.35	0.09	3.85	0.49
11RAYJR123A02	Rock	2.7	7.1	47.6	1	476.5	0.4	1.5	0.9	168	<0.5	106.1	20.7	14.2	32.6	4.21	17.7	3.97	1.05	3.73	0.61
11RAYJR126A02	Rock	2.0	5.1	40.3	<1	77.2	0.5	8.1	0.7	39	0.6	65.3	10.9	17.5	37.5	4.20	16.0	3.20	0.54	2.50	0.34
11RAYJR147A02	Rock	2.6	6.8	144.9	2	139.0	1.3	11.6	8.2	<8	0.7	70.3	24.9	21.5	38.4	4.47	14.7	3.69	0.49	3.33	0.56
11RAYJR148A02	Rock	7.4	13.7	114.5	2	385.2	1.0	16.5	5.0	91	0.8	274.0	41.5	48.0	100.8	12.30	47.5	9.65	2.05	9.05	1.17
11RAYJR149A02	Rock	3.9	10.9	102.4	2	550.0	0.7	16.9	6.4	77	<0.5	123.1	15.3	33.9	60.7	6.11	20.2	3.68	0.91	3.09	0.52
11RAYJR157B02	Rock	3.4	9.1	83.9	2	532.9	0.5	9.3	2.9	160	0.8	135.2	20.7	27.8	53.1	6.05	23.6	4.40	1.17	4.02	0.69
11RAYJR160A02	Rock	5.7	14.1	133.5	2	537.5	0.8	21.3	6.5	183	1.1	201.8	24.1	65.2	123.1	13.35	46.4	8.50	1.87	6.56	1.01
11RAYJR169A02	Rock	3.4	12.9	145.4	1	262.6	0.8	21.4	4.7	21	<0.5	123.3	13.3	37.7	63.0	6.27	21.2	3.12	0.61	2.61	0.43
11RAYJR174A02	Rock	1.3	1.7	10.4	1	137.6	<0.1	0.6	0.2	184	<0.5	38.8	15.8	2.6	6.2	0.99	5.9	1.82	0.72	2.29	0.40
11RAYJR177A02	Rock	3.8	11.7	70.1	2	978.7	0.9	8.0	3.4	51	<0.5	140.4	14.7	32.0	61.6	7.15	27.4	4.92	1.21	3.99	0.63
11RAYJR179A02	Rock	4.1	13.6	46.6	3	478.4	0.7	4.3	1.2	143	<0.5	147.2	32.0	24.2	52.6	6.35	25.5	5.82	1.64	5.74	1.07
11RAYJR185A02	Rock	2.4	6.7	17.8	1	227.0	0.3	0.6	0.2	375	<0.5	77.0	20.4	6.7	16.7	2.33	12.1	3.13	1.15	3.70	0.71
11RAYJR198B02	Rock	2.9	4.8	5.5	1	151.4	0.3	0.8	0.3	359	<0.5	111.1	33.9	6.8	17.9	2.65	13.3	4.04	1.26	5.37	1.06
11RAYJR199A01	Rock	0.4	0.4	1.3	1	127.0	<0.1	<0.2	<0.1	162	<0.5	10.1	10.3	0.7	1.8	0.35	2.9	0.88	0.51	1.52	0.24
11RAYJR204A02	Rock	0.8	2.7	14.5	2	154.2	0.2	0.4	0.1	205	0.9	30.9	11.0	2.8	6.6	1.04	6.5	1.57	0.64	2.08	0.32

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Geological Survey of Canada**
 Room 659 - 601 Booth St.
 Ottawa ON K1A 0E8 Canada

Project: Stevenson Ridge
 Report Date: November 26, 2012

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CERTIFICATE OF ANALYSIS

VAN11006014R.1

Method	Analyte	Unit	MDL	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
				ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.05	0.02	0.03	0.01	0.05	0.01	0.02	0.02
11RAYJC056A02	Rock			2.58	0.45	1.35	0.20	1.36	0.22	0.03	<0.02
11RAYJC078A02	Rock			3.64	0.76	2.07	0.32	2.47	0.36	<0.02	<0.02
11RAYJC080A02	Rock			4.29	0.75	2.38	0.35	2.25	0.30	0.02	<0.02
11RAYJC082A02	Rock			3.69	0.59	1.79	0.29	1.91	0.28	<0.02	<0.02
11RAYJC100A02	Rock			7.21	1.49	4.21	0.65	4.32	0.61	0.02	<0.02
11RAYJC104A02	Rock			2.44	0.53	1.67	0.25	1.72	0.26	<0.02	<0.02
11RAYJR017A02	Rock			3.36	0.60	1.77	0.27	1.86	0.27	0.02	<0.02
11RAYJR017B02	Rock			3.96	0.78	2.24	0.34	2.16	0.32	0.03	<0.02
11RAYJR022A02	Rock			2.80	0.61	1.69	0.28	1.85	0.29	<0.02	<0.02
11RAYJR027A02	Rock			3.48	0.50	1.47	0.23	1.54	0.20	<0.02	<0.02
11RAYJR028A02	Rock			4.31	0.73	2.17	0.35	2.39	0.33	<0.02	<0.02
11RAYJR053A02	Rock			3.12	0.57	1.76	0.28	1.88	0.30	<0.02	<0.02
11RAYJR068A02	Rock			2.23	0.42	1.26	0.17	1.06	0.18	0.03	<0.02
11RAYJR087A02	Rock			1.69	0.37	1.08	0.18	1.43	0.20	<0.02	<0.02
11RAYJR109A02	Rock			3.05	0.50	1.67	0.31	2.48	0.36	<0.02	<0.02
11RAYJR123A02	Rock			3.55	0.77	2.24	0.34	2.12	0.33	0.03	<0.02
11RAYJR126A02	Rock			2.03	0.35	1.22	0.15	1.21	0.16	<0.02	<0.02
11RAYJR147A02	Rock			4.02	0.69	2.16	0.33	2.20	0.32	<0.02	<0.02
11RAYJR148A02	Rock			8.01	1.29	3.58	0.58	3.95	0.54	0.10	<0.02
11RAYJR149A02	Rock			2.70	0.58	1.75	0.27	1.84	0.30	0.25	0.04
11RAYJR157B02	Rock			3.83	0.81	2.37	0.36	2.34	0.36	0.02	0.06
11RAYJR160A02	Rock			4.68	0.90	2.53	0.36	2.44	0.35	0.04	0.02
11RAYJR169A02	Rock			2.15	0.49	1.41	0.22	1.57	0.25	<0.02	<0.02
11RAYJR174A02	Rock			2.89	0.51	1.77	0.25	1.59	0.25	<0.02	0.04
11RAYJR177A02	Rock			3.00	0.52	1.35	0.20	1.31	0.17	0.02	<0.02
11RAYJR179A02	Rock			5.77	1.26	3.67	0.53	3.29	0.53	0.02	0.03
11RAYJR185A02	Rock			4.00	0.88	2.38	0.34	2.12	0.32	0.02	0.03
11RAYJR198B02	Rock			5.98	1.44	4.24	0.61	4.06	0.60	<0.02	0.05
11RAYJR199A01	Rock			1.84	0.34	1.06	0.16	1.14	0.15	0.08	0.03
11RAYJR204A02	Rock			1.98	0.40	1.10	0.17	0.99	0.15	0.07	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Geological Survey of Canada**
 Room 659 - 601 Booth St.
 Ottawa ON K1A 0E8 Canada

Project: Stevenson Ridge
 Report Date: November 26, 2012

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN11006014R.1

Method Analyte Unit MDL	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	
	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ni	Sc	LOI	Sum	Ba	Be	Co	Cs	Ga	
	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
	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	0.5	
11RAYJR230A02	Rock	64.58	16.22	5.09	2.03	4.65	3.01	2.45	0.51	0.15	0.10	<0.002	<20	11	0.9	99.71	1403	1	10.4	5.4	17.2
11RAYJR235A02	Rock	43.58	20.98	12.77	4.54	13.80	0.64	0.32	1.22	0.33	0.22	0.002	<20	28	1.4	99.81	33	<1	27.0	1.5	21.6
11RAYJR237A02	Rock	67.40	15.48	3.99	1.87	4.14	3.10	2.44	0.43	0.08	0.08	<0.002	23	11	0.7	99.74	800	1	9.1	3.3	14.4
11RAYJR248A02	Rock	63.22	16.27	5.23	2.09	5.48	4.51	0.97	0.49	0.18	0.17	0.003	<20	19	1.1	99.68	688	2	12.6	0.4	18.7
11RAYJR248B02	Rock	48.22	18.41	10.89	5.61	10.63	2.35	1.07	0.70	0.13	0.15	0.003	<20	38	1.5	99.71	366	<1	36.4	0.5	17.4
11RAYJR251A02	Rock	46.12	15.90	11.83	6.66	11.42	2.78	0.73	1.74	0.76	0.21	<0.002	80	25	1.4	99.52	790	4	43.2	0.3	19.3
11RAYJR258A02	Rock	52.06	17.88	10.24	5.12	7.74	4.29	0.33	0.67	0.07	0.17	0.005	<20	35	1.2	99.74	80	<1	30.3	0.2	15.9
11RAYJR261A02	Rock	76.06	12.88	1.48	0.31	0.75	4.03	3.16	0.15	0.02	0.04	<0.002	<20	2	0.9	99.80	441	2	1.7	0.6	13.0
11RAYJR266A02	Rock	63.85	16.62	3.97	2.58	3.05	2.73	4.15	0.56	0.15	0.11	<0.002	<20	9	1.7	99.44	3255	3	7.2	2.9	16.0
11RAYJR267A02	Rock	47.71	15.70	10.97	4.20	13.82	2.70	0.45	2.02	0.34	0.17	0.005	31	34	1.6	99.65	117	1	36.8	0.2	24.9
11RAYJR268A02	Rock	67.59	15.58	2.68	2.01	2.00	2.57	4.13	0.43	0.15	0.08	<0.002	36	6	2.3	99.47	3120	2	2.5	2.2	15.9
11RAYJR271A02	Rock	47.71	15.37	10.85	8.94	11.67	1.96	0.36	1.43	0.11	0.16	0.089	214	32	1.0	99.63	245	<1	52.1	0.2	17.6
11RAYJR272A02	Rock	72.59	14.17	1.98	0.32	1.57	2.70	5.63	0.29	0.05	0.04	<0.002	<20	2	0.2	99.55	2189	1	1.6	1.9	16.6
11RAYTD016A03	Rock	72.01	15.09	1.20	0.42	2.30	4.41	3.34	0.17	0.04	0.02	<0.002	<20	2	0.6	99.63	2297	2	2.3	4.0	18.9
11RAYTD018B02	Rock	63.93	16.63	4.78	1.84	4.63	3.46	2.46	0.74	0.24	0.08	<0.002	<20	11	0.5	99.31	3170	2	9.4	7.1	18.3
11RAYTD109A02	Rock	52.43	12.36	7.01	5.51	8.03	3.16	1.95	0.91	0.41	0.17	0.067	75	24	7.5	99.57	1320	1	31.5	1.5	12.6
11RAYTK017A02	Rock	63.06	16.29	5.68	2.44	5.16	2.95	2.21	0.61	0.11	0.12	0.003	23	15	1.1	99.68	1164	2	11.6	1.9	16.6
11RAYTK158B01	Rock	64.34	15.22	4.93	1.40	3.06	3.28	4.66	0.79	0.25	0.08	<0.002	<20	9	1.6	99.61	1587	2	9.3	3.0	18.6
11RAYWC103A02	Rock	46.38	18.35	4.04	12.77	15.01	1.10	0.07	0.21	<0.01	0.07	0.284	303	28	1.4	99.73	20	<1	28.6	0.3	9.4
11RAYWC107B02	Rock	46.92	12.78	8.47	6.31	9.66	1.80	4.81	0.88	0.66	0.17	0.063	93	22	6.7	99.23	4317	3	27.3	3.8	14.7
11RAYWC116A02	Rock	56.49	14.21	13.48	1.61	1.60	3.48	2.76	1.24	0.46	0.49	<0.002	30	25	3.8	99.66	1529	3	20.2	1.1	20.0
11RAYWC124B02	Rock	63.34	16.18	5.15	2.05	5.16	3.02	2.41	0.51	0.16	0.11	0.002	<20	11	1.6	99.72	1484	1	9.0	3.6	16.0
11RAYWC131A02	Rock	75.04	13.43	1.52	0.30	1.05	3.49	4.57	0.15	<0.01	0.07	<0.002	<20	2	0.2	99.82	762	4	3.2	3.2	13.9
11RAYWC168B02	Rock	70.63	14.85	2.62	0.76	2.53	2.63	4.78	0.26	0.08	0.04	<0.002	<20	1	0.3	99.50	3164	2	5.1	2.2	12.8
11RAYAZ229A02	Rock	47.99	13.63	14.88	5.74	10.40	2.41	0.28	2.39	0.18	0.22	0.003	83	36	1.5	99.62	177	1	49.7	0.2	19.3
11RAYAZ401A02	Rock	60.88	15.92	6.14	2.33	4.51	3.24	3.57	0.77	0.38	0.07	0.004	<20	12	1.9	99.78	1474	3	10.7	1.9	17.1
11RAYCR196A02	Rock	55.08	15.85	8.11	2.33	5.28	3.18	4.31	0.93	0.52	0.12	0.004	<20	17	3.9	99.60	1786	2	16.4	3.3	17.3
11RAYCR215A02	Rock	58.01	14.73	5.75	2.88	4.92	2.66	3.96	0.57	0.34	0.12	0.010	<20	15	5.9	99.80	1399	2	13.7	5.7	13.4
11RAYWC005A02	Rock	46.95	10.29	8.07	11.09	6.63	1.63	1.18	0.74	0.32	0.11	0.058	116	27	12.5	99.58	840	2	31.8	6.5	10.9
11RAYWC017A02	Rock	65.78	15.14	4.78	1.63	2.00	2.69	5.16	0.54	0.20	0.04	0.006	64	7	1.8	99.75	1147	2	2.0	9.2	17.9

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Geological Survey of Canada**
 Room 659 - 601 Booth St.
 Ottawa ON K1A 0E8 Canada

Project: Stevenson Ridge
 Report Date: November 26, 2012

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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL		4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B
		Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
11RAYJR230A02	Rock	3.4	8.3	85.1	2	394.2	0.7	11.4	3.7	90	1.1	108.1	16.1	29.0	52.5	5.82	19.3	3.96	0.95	3.47	0.49
11RAYJR235A02	Rock	<0.1	0.6	10.3	<1	233.3	<0.1	<0.2	<0.1	327	<0.5	3.8	7.1	1.5	3.1	0.47	2.2	0.86	0.47	1.20	0.24
11RAYJR237A02	Rock	2.3	7.7	91.5	2	264.8	0.6	17.3	2.7	82	<0.5	76.8	11.9	33.9	55.0	4.83	14.4	2.38	0.66	2.11	0.37
11RAYJR248A02	Rock	3.7	11.0	21.6	2	411.1	0.5	3.7	1.0	101	<0.5	129.5	59.9	22.6	49.7	6.63	28.0	7.37	1.31	8.66	1.76
11RAYJR248B02	Rock	3.6	5.8	25.6	<1	455.6	0.3	3.8	1.1	341	0.6	124.0	19.4	19.5	43.9	5.01	17.7	3.57	0.96	3.35	0.62
11RAYJR251A02	Rock	3.4	55.4	12.2	1	865.4	2.2	9.2	2.1	304	0.8	144.6	33.0	76.3	141.2	15.07	55.5	9.34	2.93	8.54	1.39
11RAYJR258A02	Rock	1.1	1.8	4.9	<1	310.4	<0.1	0.8	0.4	271	<0.5	33.8	14.1	4.6	9.9	1.33	6.4	1.82	0.66	2.10	0.41
11RAYJR261A02	Rock	3.2	14.9	114.1	2	170.0	1.4	37.7	2.8	<8	1.3	109.2	16.2	47.5	72.2	7.26	21.7	3.36	0.49	2.63	0.46
11RAYJR266A02	Rock	5.9	9.7	117.2	3	535.6	0.5	15.9	4.3	51	2.1	207.9	32.2	44.8	86.9	10.51	41.3	7.85	1.88	7.27	0.91
11RAYJR267A02	Rock	4.3	17.0	10.4	1	683.0	0.9	2.8	0.8	366	<0.5	164.1	38.9	21.0	47.5	5.91	24.8	5.82	1.87	6.57	1.25
11RAYJR268A02	Rock	6.9	14.2	129.0	2	333.2	0.7	22.5	7.2	28	1.5	267.5	23.7	59.3	108.5	11.91	41.2	6.56	1.45	5.12	0.81
11RAYJR271A02	Rock	2.4	8.1	10.7	<1	263.8	0.5	1.0	0.3	307	<0.5	89.7	18.1	7.6	18.8	2.67	12.0	3.30	1.13	3.54	0.68
11RAYJR272A02	Rock	6.8	11.5	152.3	<1	635.5	0.5	32.5	2.0	<8	<0.5	252.0	6.2	46.5	98.9	8.35	27.3	4.59	0.73	3.14	0.43
11RAYTD016A03	Rock	3.1	3.7	94.5	3	482.6	0.4	9.6	1.9	9	<0.5	111.5	6.7	25.7	43.6	3.93	12.3	1.97	0.63	1.36	0.21
11RAYTD018B02	Rock	5.4	8.0	90.4	3	920.1	0.5	7.3	3.2	79	<0.5	207.0	15.8	46.5	94.1	10.55	40.5	6.17	1.28	4.53	0.65
11RAYTD109A02	Rock	3.1	9.2	32.7	1	456.8	0.5	3.6	1.8	177	0.6	123.6	23.1	20.2	42.7	5.31	22.4	4.86	1.41	4.70	0.82
11RAYTK017A02	Rock	3.7	8.2	74.4	1	456.4	0.6	8.9	3.4	134	<0.5	122.5	16.5	18.5	35.8	4.09	16.5	3.27	0.90	2.93	0.51
11RAYTK158B01	Rock	7.7	16.3	183.9	4	444.0	1.1	21.5	6.4	64	1.0	288.9	32.6	57.1	109.8	11.64	43.6	7.83	1.43	6.62	1.12
11RAYWC103A02	Rock	0.2	0.3	2.0	1	98.5	<0.1	<0.2	<0.1	98	<0.5	6.1	5.1	0.5	1.3	0.24	1.1	0.55	0.26	0.72	0.13
11RAYWC107B02	Rock	2.7	7.2	135.2	2	852.5	0.3	3.5	1.6	181	0.6	98.6	19.2	17.2	35.2	4.76	21.6	4.75	1.24	4.77	0.61
11RAYWC116A02	Rock	5.3	14.3	73.7	3	313.1	0.7	7.9	2.6	74	0.7	208.8	35.3	37.2	76.0	9.74	41.0	8.23	2.10	7.52	1.05
11RAYWC124B02	Rock	2.7	6.8	71.7	2	430.2	0.7	10.8	3.4	75	0.9	90.1	15.3	23.7	45.9	5.17	19.4	3.53	1.01	3.07	0.44
11RAYWC131A02	Rock	3.5	15.5	157.6	2	104.3	1.3	27.2	3.8	<8	<0.5	114.9	8.1	15.6	42.8	3.18	9.1	2.12	0.35	1.55	0.22
11RAYWC168B02	Rock	4.0	4.8	101.2	2	370.2	0.6	15.0	2.9	41	0.6	160.0	10.2	38.5	77.2	7.64	25.2	3.87	0.71	2.36	0.33
11RAYAZ229A02	Rock	3.5	12.9	5.6	1	300.0	0.8	1.0	0.3	418	<0.5	134.6	29.2	11.7	29.4	4.03	19.0	5.23	1.75	5.97	1.03
11RAYAZ401A02	Rock	3.7	10.2	90.3	2	636.7	0.6	8.1	4.0	129	<0.5	136.3	16.3	26.6	53.9	5.81	21.9	4.60	1.19	4.14	0.69
11RAYCR196A02	Rock	4.6	13.2	113.3	<1	1105	0.8	11.9	4.1	165	1.4	164.7	23.9	40.8	78.7	8.30	32.1	6.76	1.71	6.08	0.96
11RAYCR215A02	Rock	3.6	7.2	107.6	<1	606.3	0.4	6.1	1.9	125	1.3	109.3	14.3	20.9	38.7	4.15	15.2	3.44	0.92	3.01	0.54
11RAYWC005A02	Rock	2.0	4.2	32.0	2	546.7	0.3	3.0	1.0	211	0.9	77.0	16.6	12.7	27.3	3.42	13.6	3.37	0.98	3.17	0.61
11RAYWC017A02	Rock	5.9	13.7	221.6	4	481.2	1.2	28.8	11.0	84	0.9	212.9	13.7	45.6	85.0	8.28	28.9	4.96	0.94	3.52	0.56

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Geological Survey of Canada**
 Room 659 - 601 Booth St.
 Ottawa ON K1A 0E8 Canada

Project: Stevenson Ridge
 Report Date: November 26, 2012

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CERTIFICATE OF ANALYSIS

VAN11006014R.1

Method	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B 2A	Leco 2A	Leco	
Analyte	Dy	Ho	Er	Tm	Yb	Lu	TOT/C	TOT/S	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.05	0.02	0.03	0.01	0.05	0.01	0.02	0.02	
11RAYJR230A02	Rock	2.82	0.61	1.59	0.27	1.62	0.27	<0.02	0.04
11RAYJR235A02	Rock	1.44	0.30	0.92	0.13	0.84	0.11	<0.02	<0.02
11RAYJR237A02	Rock	1.95	0.43	1.28	0.21	1.45	0.22	<0.02	0.02
11RAYJR248A02	Rock	10.67	2.47	7.15	1.09	7.16	1.07	<0.02	0.05
11RAYJR248B02	Rock	3.23	0.76	2.22	0.34	2.32	0.39	<0.02	0.12
11RAYJR251A02	Rock	6.70	1.37	3.43	0.48	2.92	0.41	0.33	<0.02
11RAYJR258A02	Rock	2.53	0.57	1.66	0.26	1.62	0.27	<0.02	0.04
11RAYJR261A02	Rock	2.36	0.54	1.54	0.26	1.95	0.31	0.08	0.02
11RAYJR266A02	Rock	5.89	0.99	3.18	0.48	3.34	0.48	0.04	0.03
11RAYJR267A02	Rock	6.98	1.57	4.59	0.70	4.32	0.63	<0.02	<0.02
11RAYJR268A02	Rock	4.14	0.89	2.60	0.40	2.76	0.44	<0.02	<0.02
11RAYJR271A02	Rock	3.47	0.80	2.20	0.30	1.93	0.27	0.02	0.04
11RAYJR272A02	Rock	1.69	0.27	0.55	0.08	0.59	0.08	<0.02	0.04
11RAYTD016A03	Rock	1.15	0.23	0.59	0.10	0.69	0.10	<0.02	<0.02
11RAYTD018B02	Rock	3.24	0.58	1.62	0.24	1.51	0.21	0.02	<0.02
11RAYTD109A02	Rock	4.43	0.92	2.56	0.37	2.61	0.34	1.27	<0.02
11RAYTK017A02	Rock	2.90	0.64	1.80	0.27	1.85	0.30	<0.02	0.02
11RAYTK158B01	Rock	5.60	1.21	3.57	0.53	3.54	0.56	0.10	0.02
11RAYWC103A02	Rock	0.87	0.18	0.52	0.09	0.48	0.09	0.04	0.04
11RAYWC107B02	Rock	3.63	0.71	1.96	0.31	2.06	0.28	1.22	0.07
11RAYWC116A02	Rock	6.80	1.29	3.39	0.52	3.39	0.49	0.50	0.06
11RAYWC124B02	Rock	2.90	0.50	1.52	0.25	1.59	0.25	0.12	<0.02
11RAYWC131A02	Rock	1.30	0.28	0.85	0.17	1.18	0.19	<0.02	<0.02
11RAYWC168B02	Rock	1.63	0.31	0.89	0.15	1.23	0.19	<0.02	<0.02
11RAYAZ229A02	Rock	5.40	1.23	3.26	0.44	2.97	0.42	<0.02	<0.02
11RAYAZ401A02	Rock	3.19	0.74	2.35	0.30	1.82	0.30	0.07	<0.02
11RAYCR196A02	Rock	4.28	1.12	3.04	0.41	2.63	0.39	0.68	<0.02
11RAYCR215A02	Rock	2.53	0.63	1.83	0.27	1.84	0.30	0.96	<0.02
11RAYWC005A02	Rock	3.23	0.76	1.96	0.28	1.69	0.22	2.38	<0.02
11RAYWC017A02	Rock	2.55	0.49	1.78	0.24	1.90	0.26	<0.02	0.15



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Geological Survey of Canada**
 Room 659 - 601 Booth St.
 Ottawa ON K1A 0E8 Canada

Project: Stevenson Ridge
 Report Date: November 26, 2012

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	
		SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ni	Sc	LOI	Sum	Ba	Be	Co	Cs	Ga
MDL		0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.002	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	
11RAYWC049A02	Rock	59.35	17.03	5.28	2.55	3.37	4.31	5.35	0.88	0.58	0.09	0.005	<20	9	0.9	99.72	1538	5	10.9	15.7	17.0
11RAYWC052A02	Rock	52.86	17.18	9.10	3.34	8.26	2.16	2.98	1.28	0.43	0.14	0.007	<20	15	1.9	99.67	1302	1	18.4	2.2	19.5
11RAYWC166A02	Rock	53.68	11.65	8.65	10.39	7.79	2.13	2.90	0.78	0.29	0.15	0.095	194	23	1.2	99.74	823	1	35.1	7.4	13.5
11RAYWC167A02	Rock	51.40	16.88	8.82	3.94	9.47	2.23	4.07	1.00	0.34	0.17	0.006	24	19	1.3	99.64	1315	1	29.0	7.5	22.6
11RAYWC208A02	Rock	50.77	12.94	10.09	8.26	9.93	2.32	2.94	0.98	0.41	0.16	0.039	53	31	0.8	99.68	1023	2	33.2	3.5	13.2
11RAYWC210A02	Rock	52.24	10.30	9.55	11.33	10.60	1.77	2.01	0.73	0.35	0.16	0.084	25	33	0.5	99.63	854	4	39.7	2.9	12.1
11RAYWC215A02	Rock	52.24	12.09	8.74	8.96	9.81	2.23	2.53	0.82	0.42	0.15	0.068	61	28	1.6	99.69	1014	3	32.7	4.8	12.4
11RAYWC225A02	Rock	57.39	15.64	6.53	5.25	6.62	6.08	0.21	0.98	0.18	0.12	0.018	59	23	0.9	99.96	113	2	21.7	0.4	12.1
11RAYWC274A02	Rock	69.81	14.48	3.21	0.81	2.33	3.46	3.22	0.24	0.09	0.07	0.003	<20	3	2.0	99.73	1396	2	2.0	6.4	16.0
11RAYWC281A02	Rock	55.66	15.22	8.19	4.80	6.79	2.92	2.88	1.01	0.50	0.12	0.017	33	21	1.6	99.71	1212	2	20.3	1.6	16.5
11RAYWC282A02	Rock	52.05	11.16	8.49	12.67	6.69	2.12	2.80	0.75	0.44	0.13	0.114	301	20	2.2	99.68	1011	3	42.7	3.2	12.9
11RAYWC283A02	Rock	57.25	14.80	7.08	4.38	5.42	2.95	3.21	0.84	0.48	0.11	0.019	29	15	3.1	99.65	1423	4	18.6	2.1	16.6
11RAYWC287A02	Rock	61.12	15.35	6.31	2.52	4.03	3.28	3.71	0.76	0.36	0.09	0.004	22	12	2.2	99.77	1753	4	10.3	3.2	16.2
11RAYWC290A02	Rock	48.76	13.09	9.57	6.39	11.10	1.86	2.03	1.01	0.40	0.17	0.045	21	31	5.3	99.73	1023	<1	29.6	2.5	14.4
11RAYWC292A02	Rock	54.63	13.26	7.79	5.10	6.97	1.59	1.93	0.93	0.59	0.12	0.038	25	22	6.8	99.73	1097	1	23.3	2.9	16.2
11RAYWC294A02	Rock	59.65	14.63	6.59	3.10	3.34	2.99	3.89	0.87	0.34	0.09	0.013	<20	12	4.2	99.73	1807	3	11.8	0.5	16.1
10RAYWC007A02	Rock	45.77	12.31	9.77	7.13	10.19	3.54	0.82	1.00	0.45	0.16	0.037	80	31	8.6	99.76	296	6	40.8	6.0	14.1
10RAYWC019A02	Rock	57.51	14.25	6.71	6.10	4.97	2.94	5.16	0.68	0.37	0.10	0.036	68	16	0.7	99.57	1448	2	22.8	8.5	16.2
10RAYWC035A02	Rock	56.07	16.00	7.96	4.49	6.04	2.77	4.52	0.77	0.36	0.15	0.009	43	20	0.7	99.85	1522	2	25.9	9.1	17.5
10RAYWC036A02	Rock Chip	63.43	14.93	5.13	2.69	3.83	2.84	4.38	0.61	0.36	0.06	0.006	<20	11	1.4	99.67	1355	3	4.1	6.6	16.6
11RAYAZ218A02	Rock	53.24	12.65	9.14	7.78	8.82	2.07	2.83	0.84	0.52	0.15	0.056	<20	25	1.8	99.92	1011	2	29.4	9.5	14.4
11RAYCR052A02	Rock	57.09	17.35	5.03	0.61	4.14	3.66	6.29	0.93	0.69	0.06	0.004	61	9	3.7	99.58	1681	6	7.9	1.6	17.7
11RAYCR186A02	Rock	50.55	10.91	8.03	7.57	10.03	1.91	2.12	0.73	0.38	0.14	0.105	214	21	7.2	99.73	886	1	33.3	1.0	11.8
11RAYTK084A02	Rock	50.42	13.25	9.71	8.40	8.98	2.51	3.01	0.98	0.43	0.17	0.045	55	29	1.8	99.73	1033	2	34.1	6.5	15.3
11RAYTK158A02	Rock	55.27	15.45	7.87	4.14	6.41	2.88	3.29	1.24	0.61	0.16	0.011	<20	19	2.4	99.68	990	4	18.8	2.5	19.2
11RAYWC040A02	Rock	53.21	16.58	9.23	4.61	7.82	2.95	1.82	1.02	0.53	0.21	0.011	<20	19	1.6	99.60	1386	<1	16.8	6.1	17.8
11RAYWC045A02	Rock	58.02	15.09	5.91	4.67	4.90	3.41	4.83	0.80	0.68	0.09	0.036	138	12	1.2	99.63	1527	3	19.1	2.5	15.5
11RAYWC065A02	Rock	57.23	16.31	5.68	2.46	3.84	3.00	5.70	0.91	0.57	0.26	0.004	64	9	3.9	99.87	1084	5	11.3	7.9	18.4
11RAYWC254A02	Rock	60.91	16.69	6.42	2.26	4.93	3.46	2.69	0.68	0.39	0.12	0.002	21	10	1.2	99.74	2095	1	10.7	5.4	17.5
11RAYWC284A02	Rock	55.28	15.15	6.10	3.83	6.19	3.19	3.45	0.91	0.46	0.17	0.014	35	15	4.8	99.56	1339	2	19.1	1.6	16.3

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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Method	Analyte	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	
		Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.1	0.1	0.1	1	0.5	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	
11RAYWC049A02	Rock	4.5	14.0	193.5	2	668.6	0.9	13.9	6.5	161	2.0	173.7	15.2	34.6	65.3	6.37	25.8	4.05	1.06	3.75	0.56
11RAYWC052A02	Rock	6.3	18.0	97.2	2	381.2	0.9	22.5	5.9	214	1.6	267.5	30.1	79.1	151.9	15.73	58.8	9.91	2.46	8.38	1.25
11RAYWC166A02	Rock	2.5	7.1	74.8	2	445.9	0.4	4.7	1.5	205	0.7	107.3	18.5	21.1	42.1	4.66	19.4	4.32	1.09	4.05	0.67
11RAYWC167A02	Rock	5.7	13.7	108.8	2	453.5	0.9	18.8	5.2	219	2.0	237.7	21.9	60.0	119.8	12.71	45.8	8.08	1.90	6.41	0.96
11RAYWC208A02	Rock	2.6	5.6	94.9	<1	824.5	0.3	3.4	1.1	252	<0.5	91.3	19.9	18.0	37.6	4.33	17.0	4.10	1.18	4.30	0.70
11RAYWC210A02	Rock	2.4	4.9	61.5	2	696.8	0.2	3.5	1.2	228	<0.5	79.0	16.1	16.1	33.7	3.99	13.5	3.82	1.14	3.67	0.62
11RAYWC215A02	Rock	2.4	4.8	73.4	<1	796.7	0.3	2.7	1.0	214	0.5	89.7	17.0	18.2	39.3	4.36	16.6	4.18	1.09	3.79	0.62
11RAYWC225A02	Rock	2.9	6.8	2.6	<1	371.6	0.4	0.8	0.2	206	<0.5	95.7	15.3	9.3	22.9	2.66	12.0	2.83	0.89	3.03	0.50
11RAYWC274A02	Rock	3.1	12.7	107.4	2	490.5	1.0	11.4	5.0	20	1.5	115.5	10.6	31.4	59.0	5.51	16.4	3.30	0.83	2.92	0.41
11RAYWC281A02	Rock	3.7	9.4	69.4	2	670.2	0.5	5.7	2.4	222	<0.5	130.5	23.4	25.3	53.2	5.82	26.0	5.29	1.37	5.27	0.89
11RAYWC282A02	Rock	2.2	7.2	63.5	2	503.7	0.3	4.0	1.5	171	0.7	101.3	16.6	19.8	39.3	4.61	17.7	3.88	1.07	3.98	0.66
11RAYWC283A02	Rock	3.1	9.7	83.2	2	680.1	0.8	7.3	3.3	161	<0.5	138.8	19.4	26.6	55.2	5.75	23.3	4.78	1.21	4.55	0.67
11RAYWC287A02	Rock	4.4	10.4	90.1	2	716.2	0.7	8.3	4.1	133	1.1	143.3	19.5	28.8	57.9	6.11	23.3	4.73	1.27	4.35	0.65
11RAYWC290A02	Rock	2.4	7.8	40.6	<1	664.8	0.3	2.3	0.9	275	<0.5	88.9	23.8	17.7	37.6	4.52	18.5	4.81	1.35	4.85	0.84
11RAYWC292A02	Rock	4.2	9.3	28.4	1	585.9	0.6	6.0	2.1	184	0.5	130.1	23.7	26.2	55.8	5.81	20.3	4.96	1.23	4.72	0.85
11RAYWC294A02	Rock	5.7	14.6	65.1	3	482.0	0.9	14.9	5.5	75	1.1	225.8	27.9	43.6	85.4	9.07	34.9	6.42	1.33	5.88	0.95
10RAYWC007A02	Rock	2.3	4.2	39.9	<1	689.8	0.4	2.5	1.1	272	0.6	86.6	21.5	15.7	35.9	4.38	16.4	4.15	1.37	4.55	0.77
10RAYWC019A02	Rock	4.5	9.4	183.6	2	837.5	0.8	10.3	3.6	145	0.8	167.5	17.4	38.0	76.7	7.50	25.9	5.30	1.22	4.22	0.67
10RAYWC035A02	Rock	2.7	3.5	149.1	<1	1045	0.5	3.8	1.6	204	0.8	86.8	19.1	24.1	49.2	5.23	21.4	4.90	1.17	4.47	0.72
10RAYWC036A02	Rock Chip	5.4	16.6	198.5	4	679.5	1.2	25.1	8.8	121	1.8	184.0	22.1	43.0	80.2	7.81	28.0	5.21	1.11	4.81	0.72
11RAYAZ218A02	Rock	2.5	6.3	64.9	<1	613.3	0.5	3.9	1.7	220	0.8	94.3	21.0	20.7	42.7	4.71	19.8	4.36	1.27	4.81	0.73
11RAYCR052A02	Rock	4.4	13.8	171.9	<1	892.9	0.8	12.6	3.8	198	1.4	174.2	19.3	37.1	67.9	6.80	26.1	4.68	1.16	4.29	0.61
11RAYCR186A02	Rock	2.9	5.0	37.7	<1	557.5	0.4	3.4	1.2	173	1.2	96.5	17.8	17.3	35.8	3.92	15.5	3.75	1.09	3.66	0.63
11RAYTK084A02	Rock	2.7	5.5	103.6	<1	938.7	0.3	1.9	0.7	264	<0.5	95.6	22.1	16.8	37.5	4.40	18.2	4.59	1.25	4.16	0.71
11RAYTK158A02	Rock	4.0	11.9	83.8	<1	688.5	0.8	5.4	2.0	203	1.1	143.6	25.4	27.2	56.9	6.23	26.3	5.31	1.57	5.19	0.86
11RAYWC040A02	Rock	3.8	8.8	43.6	1	911.4	0.5	2.6	1.2	186	<0.5	137.2	25.7	24.6	56.9	6.14	26.5	5.58	1.66	5.71	0.91
11RAYWC045A02	Rock	4.1	11.9	118.5	2	894.3	0.8	12.1	4.7	157	1.7	161.7	14.9	35.4	67.4	6.29	24.1	4.41	1.03	3.89	0.54
11RAYWC065A02	Rock	5.5	20.4	266.5	<1	404.9	1.3	18.8	7.5	139	1.3	228.9	16.6	39.1	73.0	6.80	25.3	4.46	1.03	3.68	0.57
11RAYWC254A02	Rock	4.0	9.2	84.2	<1	756.2	0.8	9.6	3.7	97	1.0	180.7	21.1	42.1	79.6	7.95	27.3	5.69	1.41	4.69	0.72
11RAYWC284A02	Rock	4.5	10.2	84.8	<1	718.9	0.8	7.0	3.7	148	<0.5	157.4	20.1	27.6	55.8	5.78	24.1	4.88	1.23	4.57	0.71

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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Analyte	Dy	Ho	Er	Tm	Yb	Lu	TOT/C	TOT/S	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.05	0.02	0.03	0.01	0.05	0.01	0.02	0.02	
11RAYWC049A02	Rock	2.86	0.59	1.70	0.25	1.48	0.27	0.03	<0.02
11RAYWC052A02	Rock	5.41	1.24	3.29	0.45	2.69	0.47	<0.02	<0.02
11RAYWC166A02	Rock	3.65	0.77	2.15	0.30	1.87	0.32	<0.02	<0.02
11RAYWC167A02	Rock	4.60	0.88	2.49	0.30	1.94	0.29	<0.02	0.07
11RAYWC208A02	Rock	3.42	0.78	2.40	0.30	1.89	0.28	0.06	<0.02
11RAYWC210A02	Rock	3.08	0.70	1.93	0.23	1.82	0.25	<0.02	<0.02
11RAYWC215A02	Rock	3.23	0.68	2.04	0.26	1.56	0.29	0.03	0.03
11RAYWC225A02	Rock	2.43	0.68	1.78	0.24	1.69	0.23	<0.02	<0.02
11RAYWC274A02	Rock	2.30	0.42	1.40	0.20	1.20	0.18	0.18	<0.02
11RAYWC281A02	Rock	4.92	0.90	2.81	0.37	2.62	0.38	0.04	<0.02
11RAYWC282A02	Rock	3.62	0.68	1.78	0.28	1.69	0.27	0.03	<0.02
11RAYWC283A02	Rock	3.71	0.84	2.39	0.29	1.80	0.29	0.42	<0.02
11RAYWC287A02	Rock	3.65	0.76	2.33	0.29	2.08	0.31	0.05	<0.02
11RAYWC290A02	Rock	4.33	0.94	2.65	0.40	2.48	0.36	0.80	<0.02
11RAYWC292A02	Rock	4.20	1.00	3.04	0.40	2.44	0.39	0.87	<0.02
11RAYWC294A02	Rock	5.60	1.11	3.04	0.44	3.11	0.47	0.54	<0.02
10RAYWC007A02	Rock	4.13	0.90	2.85	0.39	2.19	0.31	1.58	<0.02
10RAYWC019A02	Rock	3.29	0.73	2.04	0.29	1.82	0.26	<0.02	<0.02
10RAYWC035A02	Rock	3.40	0.79	2.42	0.29	1.63	0.28	0.03	<0.02
10RAYWC036A02	Rock Chip	3.59	0.81	2.54	0.34	2.18	0.43	0.03	0.03
11RAYAZ218A02	Rock	4.08	0.70	2.14	0.31	1.93	0.29	<0.02	<0.02
11RAYCR052A02	Rock	2.95	0.61	1.91	0.32	1.51	0.29	0.42	<0.02
11RAYCR186A02	Rock	3.45	0.67	2.00	0.27	2.03	0.30	1.24	<0.02
11RAYTK084A02	Rock	4.32	0.79	2.40	0.36	2.31	0.32	0.02	<0.02
11RAYTK158A02	Rock	5.19	1.00	2.80	0.39	2.53	0.39	0.06	<0.02
11RAYWC040A02	Rock	4.83	1.04	3.12	0.40	2.80	0.41	<0.02	<0.02
11RAYWC045A02	Rock	3.38	0.66	1.72	0.24	1.59	0.26	<0.02	<0.02
11RAYWC065A02	Rock	2.63	0.65	1.77	0.25	1.68	0.28	0.51	<0.02
11RAYWC254A02	Rock	3.84	0.78	2.44	0.32	2.09	0.29	<0.02	<0.02
11RAYWC284A02	Rock	3.65	0.83	2.29	0.33	1.88	0.35	0.97	<0.02



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Analyte	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ni	Sc	LOI	Sum	Ba	Be	Co	Cs	Ga	
Unit	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	
MDL	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	0.5	
11RAYWC288A02	Rock	51.41	12.37	9.01	8.65	7.98	1.86	3.93	0.87	0.58	0.17	0.072	125	23	2.7	99.67	1098	3	30.6	3.8	13.3
11RAYWC291A02	Rock	59.60	15.53	6.32	2.74	5.61	3.28	3.16	0.73	0.28	0.13	0.005	<20	17	2.3	99.67	1253	2	14.1	2.3	18.0



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Analyte	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.1	0.1	0.1	1	0.5	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	0.01	
11RAYWC288A02	Rock	3.0	6.5	83.3	<1	648.4	0.4	3.6	1.3	192	0.6	111.9	20.1	22.3	45.4	4.94	23.7	4.52	1.27	4.72	0.76
11RAYWC291A02	Rock	4.4	8.9	87.8	1	705.6	0.6	9.5	3.6	147	1.1	156.0	20.1	26.1	50.7	5.99	22.4	4.58	1.15	4.13	0.64



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Analyte	Dy	Ho	Er	Tm	Yb	Lu	TOT/C	TOT/S	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.05	0.02	0.03	0.01	0.05	0.01	0.02	0.02	
11RAYWC288A02	Rock	3.72	0.83	2.56	0.33	2.13	0.32	0.21	<0.02
11RAYWC291A02	Rock	3.85	0.71	2.02	0.31	2.21	0.33	0.24	<0.02



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QUALITY CONTROL REPORT

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Method		4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B
Analyte		SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ni	Sc	LOI	Sum	Ba	Be	Co	Cs	Ga
Unit		%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm
MDL		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	0.5
11RAYAZ119A02	Rock	46.38	19.42	10.83	7.73	9.21	1.39	1.34	0.92	0.30	0.18	0.021	66	15	1.8	99.51	1768	<1	43.4	1.9	19.1
11RAYAZ265A03	Rock	50.06	13.61	7.96	10.88	13.04	1.10	0.46	0.27	<0.01	0.15	0.024	86	44	2.0	99.54	319	1	46.6	12.3	11.2
11RAYJR017A02	Rock	62.80	16.55	5.58	2.37	5.26	3.10	2.41	0.60	0.19	0.11	<0.002	<20	12	0.7	99.63	1856	4	10.1	1.7	15.6
11RAYTD018B02	Rock	63.93	16.63	4.78	1.84	4.63	3.46	2.46	0.74	0.24	0.08	<0.002	<20	11	0.5	99.31	3170	2	9.4	7.1	18.3
11RAYCR052A02	Rock	57.09	17.35	5.03	0.61	4.14	3.66	6.29	0.93	0.69	0.06	0.004	61	9	3.7	99.58	1681	6	7.9	1.6	17.7
Pulp Duplicates																					
11RAYAZ107A02	Rock	52.35	16.14	8.97	6.23	7.81	3.95	2.18	0.84	0.22	0.17	0.029	28	30	0.8	99.72	702	<1	29.5	0.2	16.3
REP 11RAYAZ107A02	QC	52.51	16.21	8.81	6.13	7.84	3.94	2.18	0.86	0.21	0.17	0.029	23	29	0.8	99.72	730	1	30.9	0.2	16.9
11RAYAZ148A02	Rock	59.99	17.93	6.53	2.40	6.38	2.90	1.72	0.70	0.20	0.12	<0.002	<20	15	0.8	99.64	1837	<1	12.4	3.5	20.1
REP 11RAYAZ148A02	QC																				
11RAYAZ228A02	Rock	54.24	17.63	8.12	4.42	2.12	2.76	4.28	1.06	0.39	0.07	<0.002	32	12	4.0	99.11	1917	7	8.6	5.1	19.4
REP 11RAYAZ228A02	QC																				
11RAYAZ234B02	Rock	67.83	17.63	1.20	0.05	3.48	8.40	0.05	0.25	0.04	0.02	0.005	46	2	0.9	99.86	15	<1	1.4	<0.1	18.1
REP 11RAYAZ234B02	QC	67.89	17.50	1.26	0.06	3.40	8.46	0.04	0.25	0.08	0.02	0.005	<20	2	0.9	99.87	13	<1	<0.2	<0.1	16.5
11RAYJR053A02	Rock	58.18	15.94	8.06	4.38	7.93	2.29	0.79	0.51	0.08	0.12	0.003	<20	26	1.5	99.78	358	<1	23.1	0.7	15.7
REP 11RAYJR053A02	QC																				
11RAYJR148A02	Rock	61.11	15.53	7.32	1.45	3.54	3.15	3.90	1.14	0.34	0.12	<0.002	<20	12	2.0	99.65	1595	3	10.6	2.7	18.8
REP 11RAYJR148A02	QC	60.95	15.53	7.40	1.47	3.54	3.15	3.94	1.15	0.35	0.12	<0.002	<20	13	2.0	99.64	1613	2	10.7	2.5	18.0
11RAYJR261A02	Rock	76.06	12.88	1.48	0.31	0.75	4.03	3.16	0.15	0.02	0.04	<0.002	<20	2	0.9	99.80	441	2	1.7	0.6	13.0
REP 11RAYJR261A02	QC	76.21	12.78	1.56	0.32	0.73	3.93	3.12	0.14	0.07	0.04	<0.002	<20	1	0.9	99.83	438	2	1.4	0.6	12.7
11RAYTK158B01	Rock	64.34	15.22	4.93	1.40	3.06	3.28	4.66	0.79	0.25	0.08	<0.002	<20	9	1.6	99.61	1587	2	9.3	3.0	18.6
REP 11RAYTK158B01	QC																				
11RAYWC017A02	Rock	65.78	15.14	4.78	1.63	2.00	2.69	5.16	0.54	0.20	0.04	0.006	64	7	1.8	99.75	1147	2	2.0	9.2	17.9
REP 11RAYWC017A02	QC	65.83	14.73	5.30	1.65	2.01	2.62	5.12	0.54	0.25	0.04	0.004	<20	8	1.8	99.86	1183	5	2.1	9.4	18.4
11RAYTK084A02	Rock	50.42	13.25	9.71	8.40	8.98	2.51	3.01	0.98	0.43	0.17	0.045	55	29	1.8	99.73	1033	2	34.1	6.5	15.3
REP 11RAYTK084A02	QC																				
Reference Materials																					
STD GS311-1	Standard																				
STD GS311-1	Standard																				



Acme Analytical Laboratories (Vancouver) Ltd.

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Phone (604) 253-3158 Fax (604) 253-1716

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

Project: Stevenson Ridge
Report Date: November 26, 2012

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QUALITY CONTROL REPORT

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Method	Analyte	Unit	MDL	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B		
				Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
				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	0.01
11RAYAZ119A02	Rock			1.7	6.5	45.2	1	832.3	0.4	2.1	0.6	204	<0.5	64.7	17.9	16.1	33.4	4.54	20.0	4.10	1.28	4.07	0.59
11RAYAZ265A03	Rock			0.6	0.7	18.7	1	392.6	<0.1	0.8	0.6	207	<0.5	16.8	8.1	5.2	10.9	1.49	6.3	1.58	0.54	1.61	0.29
11RAYJR017A02	Rock			2.9	9.0	75.0	<1	495.0	0.7	10.1	3.3	104	<0.5	99.6	19.9	30.4	56.6	6.42	20.7	4.70	1.26	4.07	0.51
11RAYTD018B02	Rock			5.4	8.0	90.4	3	920.1	0.5	7.3	3.2	79	<0.5	207.0	15.8	46.5	94.1	10.55	40.5	6.17	1.28	4.53	0.65
11RAYCR052A02	Rock			4.4	13.8	171.9	<1	892.9	0.8	12.6	3.8	198	1.4	174.2	19.3	37.1	67.9	6.80	26.1	4.68	1.16	4.29	0.61
Pulp Duplicates																							
11RAYAZ107A02	Rock			2.1	4.4	47.8	<1	307.0	0.3	2.4	0.9	226	<0.5	71.7	20.4	13.1	27.7	3.63	16.3	3.73	1.11	3.89	0.59
REP 11RAYAZ107A02	QC			1.9	5.3	47.2	<1	312.3	0.3	2.4	0.9	229	<0.5	73.9	21.6	13.6	29.6	3.99	15.9	3.93	1.20	3.93	0.64
11RAYAZ148A02	Rock			3.0	8.4	59.4	1	580.2	0.3	0.4	0.5	112	<0.5	123.4	20.2	13.9	31.9	4.52	21.3	4.50	1.21	4.07	0.65
REP 11RAYAZ148A02	QC																						
11RAYAZ228A02	Rock			8.8	30.4	186.5	4	342.1	1.6	25.3	6.2	83	2.4	322.7	43.0	58.6	119.2	13.76	52.6	10.72	2.65	8.86	1.39
REP 11RAYAZ228A02	QC																						
11RAYAZ234B02	Rock			8.4	24.0	0.7	3	145.4	1.7	14.3	2.7	53	0.7	184.2	93.6	23.1	80.7	11.00	47.9	11.97	1.21	12.65	2.42
REP 11RAYAZ234B02	QC			7.6	19.9	0.4	3	141.7	1.6	13.7	2.6	39	<0.5	176.2	94.1	21.8	78.5	10.58	49.5	11.32	1.19	11.82	2.31
11RAYJR053A02	Rock			1.9	4.2	20.0	<1	330.6	0.2	9.1	1.5	188	<0.5	54.0	19.9	12.3	26.9	3.41	14.3	3.07	0.97	3.30	0.47
REP 11RAYJR053A02	QC																						
11RAYJR148A02	Rock			7.4	13.7	114.5	2	385.2	1.0	16.5	5.0	91	0.8	274.0	41.5	48.0	100.8	12.30	47.5	9.65	2.05	9.05	1.17
REP 11RAYJR148A02	QC			8.1	15.0	113.6	2	391.2	0.9	16.7	4.9	83	<0.5	267.6	43.1	49.1	100.3	12.47	50.8	9.64	2.14	9.00	1.12
11RAYJR261A02	Rock			3.2	14.9	114.1	2	170.0	1.4	37.7	2.8	<8	1.3	109.2	16.2	47.5	72.2	7.26	21.7	3.36	0.49	2.63	0.46
REP 11RAYJR261A02	QC			3.5	13.7	115.8	2	164.3	1.4	37.5	2.9	<8	1.2	105.0	14.8	47.0	72.7	6.92	21.3	3.27	0.46	2.60	0.42
11RAYTK158B01	Rock			7.7	16.3	183.9	4	444.0	1.1	21.5	6.4	64	1.0	288.9	32.6	57.1	109.8	11.64	43.6	7.83	1.43	6.62	1.12
REP 11RAYTK158B01	QC																						
11RAYWC017A02	Rock			5.9	13.7	221.6	4	481.2	1.2	28.8	11.0	84	0.9	212.9	13.7	45.6	85.0	8.28	28.9	4.96	0.94	3.52	0.56
REP 11RAYWC017A02	QC			5.7	13.6	230.7	5	506.2	1.3	30.5	13.8	93	0.9	208.3	15.8	47.4	89.1	8.66	31.2	5.41	0.99	3.76	0.58
11RAYTK084A02	Rock			2.7	5.5	103.6	<1	938.7	0.3	1.9	0.7	264	<0.5	95.6	22.1	16.8	37.5	4.40	18.2	4.59	1.25	4.16	0.71
REP 11RAYTK084A02	QC																						
Reference Materials																							
STD GS311-1	Standard																						
STD GS311-1	Standard																						



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 Phone (604) 253-3158 Fax (604) 253-1716

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 Report Date: November 26, 2012

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QUALITY CONTROL REPORT

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Method	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	2A Leco	2A Leco	
Analyte	Dy	Ho	Er	Tm	Yb	Lu	TOT/C	TOT/S	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.05	0.02	0.03	0.01	0.05	0.01	0.02	0.02	
11RAYAZ119A02	Rock	3.22	0.63	1.89	0.28	1.73	0.25	0.13	0.11
11RAYAZ265A03	Rock	1.55	0.33	0.97	0.13	0.91	0.13	0.07	<0.02
11RAYJR017A02	Rock	3.36	0.60	1.77	0.27	1.86	0.27	0.02	<0.02
11RAYTD018B02	Rock	3.24	0.58	1.62	0.24	1.51	0.21	0.02	<0.02
11RAYCR052A02	Rock	2.95	0.61	1.91	0.32	1.51	0.29	0.42	<0.02
Pulp Duplicates									
11RAYAZ107A02	Rock	3.54	0.68	2.04	0.30	1.88	0.29	<0.02	<0.02
REP 11RAYAZ107A02	QC	3.66	0.74	2.25	0.31	2.04	0.32		
11RAYAZ148A02	Rock	3.47	0.72	1.96	0.30	2.03	0.28	<0.02	<0.02
REP 11RAYAZ148A02	QC							<0.02	<0.02
11RAYAZ228A02	Rock	7.68	1.48	4.60	0.69	4.42	0.65	0.07	<0.02
REP 11RAYAZ228A02	QC							0.08	<0.02
11RAYAZ234B02	Rock	14.10	3.30	11.29	1.78	11.75	1.71	0.04	<0.02
REP 11RAYAZ234B02	QC	12.70	3.43	10.62	1.76	10.88	1.71		
11RAYJR053A02	Rock	3.12	0.57	1.76	0.28	1.88	0.30	<0.02	<0.02
REP 11RAYJR053A02	QC							<0.02	<0.02
11RAYJR148A02	Rock	8.01	1.29	3.58	0.58	3.95	0.54	0.10	<0.02
REP 11RAYJR148A02	QC	7.24	1.32	3.81	0.61	3.78	0.58		
11RAYJR261A02	Rock	2.36	0.54	1.54	0.26	1.95	0.31	0.08	0.02
REP 11RAYJR261A02	QC	2.32	0.49	1.59	0.25	1.78	0.30		
11RAYTK158B01	Rock	5.60	1.21	3.57	0.53	3.54	0.56	0.10	0.02
REP 11RAYTK158B01	QC							0.10	0.02
11RAYWC017A02	Rock	2.55	0.49	1.78	0.24	1.90	0.26	<0.02	0.15
REP 11RAYWC017A02	QC	3.20	0.54	1.66	0.22	1.73	0.28		
11RAYTK084A02	Rock	4.32	0.79	2.40	0.36	2.31	0.32	0.02	<0.02
REP 11RAYTK084A02	QC							<0.02	<0.02
Reference Materials									
STD GS311-1	Standard							0.97	2.29
STD GS311-1	Standard							1.04	2.34



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Ottawa ON K1A 0E8 Canada

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		SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ni	Sc	LOI	Sum	Ba	Be	Co	Cs	Ga	
		%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	
		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	0.5	
STD GS311-1	Standard																					
STD GS311-1	Standard																					
STD GS311-1	Standard																					
STD GS311-1	Standard																					
STD GS910-4	Standard																					
STD GS910-4	Standard																					
STD GS910-4	Standard																					
STD GS910-4	Standard																					
STD GS910-4	Standard																					
STD SO-18	Standard	58.46	14.14	7.52	3.31	6.29	3.53	2.12	0.69	0.83	0.39	0.558	40	24	1.9	99.73	517	<1	27.1	7.0	17.7	
STD SO-18	Standard	58.05	14.02	7.73	3.40	6.35	3.67	2.12	0.69	0.83	0.40	0.554	47	24	1.9	99.73	499	<1	27.3	6.5	17.2	
STD SO-18	Standard	58.35	14.00	7.55	3.36	6.33	3.64	2.13	0.69	0.82	0.40	0.547	50	23	1.9	99.73	506	2	26.9	6.6	17.5	
STD SO-18	Standard	58.09	14.11	7.60	3.38	6.36	3.69	2.13	0.70	0.82	0.40	0.555	43	24	1.9	99.74	504	1	27.1	7.2	17.8	
STD SO-18	Standard	58.32	13.83	7.63	3.40	6.29	3.71	2.16	0.69	0.83	0.40	0.561	50	24	1.9	99.73	521	<1	26.7	6.7	17.9	
STD SO-18	Standard	58.13	14.08	7.55	3.41	6.28	3.71	2.15	0.70	0.79	0.40	0.550	38	25	1.9	99.65	513	<1	28.8	6.9	17.0	
STD SO-18	Standard	58.08	14.13	7.59	3.36	6.15	3.63	2.13	0.67	0.78	0.38	0.547	65	24	1.9	99.36	491	<1	26.4	6.6	19.5	
STD SO-18	Standard	57.98	14.11	7.60	3.31	6.17	3.67	2.14	0.68	0.88	0.38	0.553	65	24	1.9	99.38	467	<1	23.7	6.1	15.3	
STD SO-18	Standard	58.78	13.87	7.42	3.43	6.31	3.55	2.10	0.68	0.85	0.40	0.557	40	24	1.9	99.88	490	1	26.4	6.5	16.1	
STD SO-18	Standard	57.49	14.21	7.83	3.46	6.47	3.70	2.13	0.70	0.88	0.41	0.553	46	24	1.9	99.73	470	<1	25.8	6.4	17.1	
STD SO-18	Standard	58.06	14.11	7.59	3.38	6.34	3.71	2.11	0.69	0.87	0.40	0.545	41	24	1.9	99.72	500	<1	25.0	6.3	17.2	
STD SO-18	Standard	57.34	14.02	8.17	3.44	6.35	3.82	2.20	0.70	0.83	0.41	0.566	21	24	1.9	99.75	501	4	26.5	6.4	18.0	
STD SO-18	Standard	57.44	14.40	7.75	3.43	6.43	3.73	2.14	0.70	0.81	0.40	0.558	28	24	1.9	99.69	499	<1	26.2	6.4	20.2	
STD SO-18	Standard	57.82	14.26	7.68	3.38	6.33	3.70	2.17	0.69	0.83	0.40	0.549	37	24	1.9	99.71	466	<1	23.8	6.1	17.1	
STD SO-18	Standard	58.23	14.02	7.59	3.39	6.28	3.63	2.17	0.72	0.86	0.40	0.555	73	24	1.9	99.75	502	1	25.4	6.3	16.0	
STD SO-18	Standard	58.54	13.91	7.37	3.37	6.27	3.67	2.18	0.70	0.84	0.40	0.555	<20	25	1.9	99.72	512	1	25.5	6.9	16.6	
STD GS910-4 Expected																						
STD GS311-1 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	17.6	

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.



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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		Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		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	0.01	
STD GS311-1	Standard																					
STD GS311-1	Standard																					
STD GS311-1	Standard																					
STD GS311-1	Standard																					
STD GS910-4	Standard																					
STD GS910-4	Standard																					
STD GS910-4	Standard																					
STD GS910-4	Standard																					
STD GS910-4	Standard																					
STD SO-18	Standard	9.1	20.2	27.9	16	415.5	6.5	9.7	15.7	208	14.5	286.7	31.4	12.4	26.4	3.23	12.9	2.87	0.82	2.81	0.47	
STD SO-18	Standard	8.6	19.9	28.1	14	413.0	6.4	8.9	15.2	199	13.9	277.3	29.3	12.0	25.4	3.15	12.7	2.68	0.82	2.75	0.48	
STD SO-18	Standard	8.9	20.1	28.3	15	414.1	6.6	9.5	15.1	200	13.8	276.5	31.0	12.5	27.5	3.32	13.8	2.68	0.86	2.83	0.48	
STD SO-18	Standard	9.8	21.4	28.9	15	416.2	6.8	9.9	16.1	212	13.5	291.4	29.0	12.0	26.3	3.22	14.6	2.73	0.83	2.90	0.47	
STD SO-18	Standard	10.2	21.1	30.0	15	421.3	7.3	10.0	15.8	209	13.8	300.3	31.2	12.1	26.2	3.30	14.0	2.86	0.82	2.91	0.48	
STD SO-18	Standard	9.5	21.1	29.0	16	432.3	6.9	10.8	16.5	212	14.4	292.6	31.0	13.5	28.8	3.46	13.7	2.87	0.89	3.06	0.54	
STD SO-18	Standard	9.7	19.9	29.5	15	415.8	6.8	9.3	15.9	209	14.6	292.1	30.4	12.6	25.6	3.12	13.2	2.81	0.81	2.80	0.48	
STD SO-18	Standard	8.2	18.4	26.8	14	379.9	6.3	8.8	14.8	193	13.1	261.3	27.5	11.4	24.4	3.02	12.6	2.64	0.79	2.58	0.45	
STD SO-18	Standard	9.4	19.8	27.0	13	435.0	6.6	9.8	16.7	214	13.5	289.2	31.2	13.4	28.3	3.20	13.5	2.69	0.80	2.84	0.49	
STD SO-18	Standard	9.3	18.5	25.6	13	380.2	6.4	10.4	14.8	199	14.0	285.8	32.7	12.5	28.4	3.68	15.1	3.05	0.96	3.26	0.47	
STD SO-18	Standard	9.9	18.6	25.6	15	393.0	6.4	10.5	14.5	201	14.1	280.8	32.2	13.6	28.4	3.57	14.4	3.07	0.98	3.33	0.46	
STD SO-18	Standard	9.6	19.4	28.2	14	390.6	6.0	9.5	15.1	205	12.8	283.5	29.4	11.9	24.5	3.10	14.4	2.61	0.82	2.82	0.48	
STD SO-18	Standard	9.7	20.8	27.4	16	382.8	6.3	9.6	15.1	195	14.8	288.2	30.6	12.6	26.7	3.35	13.7	3.01	0.94	3.20	0.53	
STD SO-18	Standard	9.3	18.0	26.3	13	362.7	5.8	9.2	13.7	176	13.2	264.8	28.6	11.0	24.6	3.08	12.5	2.75	0.83	2.90	0.44	
STD SO-18	Standard	9.3	20.4	27.4	13	429.8	6.0	10.5	17.9	206	14.7	279.8	28.1	14.7	31.5	3.41	13.3	2.70	0.80	2.85	0.49	
STD SO-18	Standard	9.1	21.5	26.7	15	445.1	6.4	9.8	17.2	208	15.6	289.1	30.5	13.4	29.5	3.26	13.5	2.90	0.80	2.83	0.49	
STD GS910-4 Expected																						
STD GS311-1 Expected																						
STD SO-18 Expected		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	0.53	



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Geological Survey of Canada**

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

Project: Stevenson Ridge

Report Date: November 26, 2012

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QUALITY CONTROL REPORT

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		4A-4B Dy ppm 0.05	4A-4B Ho ppm 0.02	4A-4B Er ppm 0.03	4A-4B Tm ppm 0.01	4A-4B Yb ppm 0.05	4A-4B Lu ppm 0.01	2A Leco TOT/C %	2A Leco TOT/S %
STD GS311-1	Standard							1.00	2.30
STD GS311-1	Standard							1.06	2.49
STD GS311-1	Standard							0.98	2.15
STD GS311-1	Standard							0.95	2.23
STD GS910-4	Standard							2.59	8.44
STD GS910-4	Standard							2.70	8.19
STD GS910-4	Standard							2.67	8.15
STD GS910-4	Standard							2.84	8.37
STD GS910-4	Standard							2.74	7.95
STD GS910-4	Standard							2.58	8.07
STD SO-18	Standard	2.73	0.59	1.71	0.27	1.76	0.27		
STD SO-18	Standard	2.72	0.64	1.75	0.27	1.79	0.27		
STD SO-18	Standard	2.75	0.63	1.84	0.27	1.78	0.27		
STD SO-18	Standard	2.92	0.59	1.73	0.26	1.80	0.27		
STD SO-18	Standard	2.89	0.62	1.82	0.26	1.84	0.26		
STD SO-18	Standard	3.02	0.69	2.05	0.30	2.01	0.28		
STD SO-18	Standard	2.49	0.60	1.81	0.27	1.86	0.28		
STD SO-18	Standard	2.86	0.59	1.70	0.24	1.59	0.25		
STD SO-18	Standard	2.89	0.61	1.90	0.28	1.74	0.28		
STD SO-18	Standard	3.51	0.58	1.64	0.26	1.67	0.21		
STD SO-18	Standard	3.52	0.58	1.79	0.26	1.66	0.25		
STD SO-18	Standard	2.76	0.54	1.86	0.25	1.83	0.27		
STD SO-18	Standard	2.96	0.65	1.72	0.30	1.82	0.29		
STD SO-18	Standard	2.77	0.55	1.61	0.24	1.54	0.23		
STD SO-18	Standard	3.04	0.65	2.18	0.29	1.85	0.27		
STD SO-18	Standard	3.00	0.66	1.97	0.28	1.72	0.28		
STD GS910-4 Expected								2.65	8.27
STD GS311-1 Expected								1.02	2.35
STD SO-18 Expected		3	0.62	1.84	0.27	1.79	0.27		



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Geological Survey of Canada**
 Room 659 - 601 Booth St.
 Ottawa ON K1A 0E8 Canada

Project: Stevenson Ridge
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QUALITY CONTROL REPORT

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		4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	
		SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ni	Sc	LOI	Sum	Ba	Be	Co	Cs	Ga	
		%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	
		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	0.5	
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
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	0.3	<0.1	<0.5	
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	<0.5	
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	<0.5	
BLK	Blank																					
BLK	Blank	0.08	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.002	22	<1	0.0	0.17	2	<1	0.3	<0.1	<0.5	
BLK	Blank	0.18	0.02	0.10	0.03	0.07	0.01	0.02	<0.01	<0.01	<0.01	<0.002	34	<1	0.0	0.44	<1	<1	<0.2	<0.1	<0.5	
BLK	Blank	<0.01	<0.01	0.09	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	27	<1	0.0	0.06	<1	<1	<0.2	<0.1	<0.5	
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	<0.5	
BLK	Blank	<0.01	<0.01	0.08	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	34	<1	0.0	0.11	<1	<1	0.3	<0.1	<0.5	
BLK	Blank	0.04	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.002	<20	<1	0.0	0.04	1	<1	0.9	<0.1	1.1	
BLK	Blank	<0.01	<0.01	<0.04	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<20	<1	0.0	<0.01	<1	<1	<0.2	<0.1	<0.5	



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Geological Survey of Canada**
 Room 659 - 601 Booth St.
 Ottawa ON K1A 0E8 Canada

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QUALITY CONTROL REPORT

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		4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B		
		Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		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	0.01	
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	0.2	<0.1	<0.1	<0.1	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	0.2	<0.1	<0.1	<0.1	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	0.2	<0.1	<0.1	<0.1	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01	
BLK	Blank																					
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	0.2	<0.1	0.1	<0.1	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	0.2	<0.1	<0.1	<0.1	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	0.2	<0.1	<0.1	<0.1	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01	
BLK	Blank	<0.1	0.4	0.3	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	0.2	0.2	0.3	0.2	0.03	<0.3	0.06	<0.02	<0.05	0.01	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	0.2	<0.1	<0.1	<0.1	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01	



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QUALITY CONTROL REPORT

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		4A-4B Dy ppm 0.05	4A-4B Ho ppm 0.02	4A-4B Er ppm 0.03	4A-4B Tm ppm 0.01	4A-4B Yb ppm 0.05	4A-4B Lu ppm 0.01	2A Leco TOT/C %	2A Leco TOT/S %
BLK	Blank							<0.02	<0.02
BLK	Blank							<0.02	<0.02
BLK	Blank							<0.02	<0.02
BLK	Blank							<0.02	<0.02
BLK	Blank							<0.02	<0.02
BLK	Blank	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01		
BLK	Blank	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01		
BLK	Blank	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01		
BLK	Blank							<0.02	<0.02
BLK	Blank	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01		
BLK	Blank	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01		
BLK	Blank	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01		
BLK	Blank	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01		
BLK	Blank	<0.05	0.02	<0.03	<0.01	<0.05	0.01		
BLK	Blank	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01		