

The content of this report is based on information collected during our investigation, our present understanding of the site conditions, and our professional judgement in light of such information at the time of this report. This report provides a professional opinion and therefore no warranty is expressed, implied, or made as to the conclusions, advice and recommendations offered in this report. This report does not provide a legal opinion regarding compliance with applicable laws. With respect to regulatory compliance issues, it should be noted that regulatory statutes and the interpretation of regulatory statutes are subject to change.

The findings and conclusions of this report are valid only as of the date of this report. If new information is discovered in future work, including excavations, borings, or other studies, Golder Associates Ltd. should be requested to re-evaluate the conclusions of this report, and to provide amendments as required.

6.0 CLOSURE

We trust this technical memorandum meets your current requirements. Please contact us should you have any questions or comments.

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Attachments: Attachment A – Compiled Data Tables and Figures
Attachment B – Quality Assurance / Quality Control Assessment
Attachment C – SGS Laboratory Certificates of Analysis

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ATTACHMENT A

Compiled Data Tables and Figures

Sample ID	Location	Primary composition	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	MgO	CaO	Na ₂ O	K ₂ O	TiO ₂	P ₂ O ₅	MnO	Cr ₂ O ₃	V ₂ O ₅	LOI	Sum	
			%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
E1-1	Esker 1	Gravel and sand	75	11	5.3	1.9	0.84	1.8	2.1	0.36	0.11	0.040	0.030	< 0.01	2.2	101	
E1-2	Esker 1	Sand with gravel	75	12	4.7	1.7	0.52	2.0	2.6	0.39	0.11	0.030	0.020	0.010	2.1	101	
E1-3	Esker 1	Sand with gravel	77	11	3.8	1.3	0.45	1.7	2.7	0.36	0.070	0.020	0.030	< 0.01	2.8	101	
E1-4	Esker 1	Sand and gravel	78	11	4.2	1.5	0.47	1.6	2.2	0.32	0.080	0.020	0.020	< 0.01	2.2	101	
E1-5	Esker 1	Gravel with sand	79	10	4.0	1.5	0.48	1.6	2.2	0.34	0.080	0.030	0.020	0.020	1.9	101	
			MINIMUM	75	10	3.8	1.3	0.45	1.6	2.1	0.32	0.070	0.020	0.020	< 0.01	1.9	101
			MAXIMUM	79	12	5.3	1.9	0.84	2.0	2.7	0.39	0.11	0.040	0.030	0.020	2.8	101
			MEDIAN	77	11	4.2	1.5	0.48	1.7	2.2	0.36	0.080	0.030	0.020	0.010	2.2	101
			AVERAGE	77	11	4.4	1.6	0.55	1.7	2.4	0.35	0.090	0.028	0.024	0.012	2.3	101
			STANDARD DEVIATION	1.5	0.67	0.55	0.20	0.15	0.15	0.23	0.023	0.017	0.0075	0.0049	0.0040	0.31	0.16
			75TH PERCENTILE	78	11	4.7	1.7	0.52	1.8	2.6	0.36	0.11	0.030	0.030	0.010	2.2	101
E2-1	Esker 2	Sand with gravel	73	13	4.2	1.2	1.4	2.9	3.3	0.41	0.11	0.050	0.020	< 0.01	1.7	101	
E2-2	Esker 2	Sand with gravel	74	12	4.3	1.3	1.1	2.4	3.2	0.40	0.12	0.030	0.020	0.010	2.1	101	
E2-3	Esker 2	Sand with gravel	73	13	4.4	1.3	1.3	2.9	3.3	0.41	0.13	0.040	0.030	< 0.01	2.0	101	
E2-4	Esker 2	Sand and gravel	75	12	4.0	0.99	1.1	2.8	3.2	0.37	0.10	0.030	0.030	< 0.01	1.6	101	
			MINIMUM	73	12	4.0	0.99	1.1	2.4	3.2	0.37	0.10	0.030	0.020	< 0.01	1.6	101
			MAXIMUM	75	13	4.4	1.3	1.4	2.9	3.3	0.41	0.13	0.050	0.030	0.010	2.1	101
			MEDIAN	74	12	4.2	1.2	1.2	2.8	3.2	0.41	0.12	0.035	0.025	nc	1.9	101
			AVERAGE	74	12	4.2	1.2	1.2	2.7	3.3	0.40	0.12	0.038	0.025	nc	1.8	101
			STANDARD DEVIATION	0.82	0.33	0.16	0.12	0.13	0.22	0.076	0.016	0.011	0.0083	0.0050	nc	0.21	0.15
			75TH PERCENTILE	74	13	4.3	1.3	1.3	2.9	3.3	0.41	0.12	0.043	0.030	nc	2.0	101
E3-1	Esker 3	Sand	71	13	4.3	2.9	1.1	2.9	3.2	0.34	0.10	0.060	0.040	0.010	2.4	101	
E3-2	Esker 3	Sand	70	13	4.7	3.2	1.1	2.9	3.0	0.35	0.10	0.040	0.040	< 0.01	2.4	101	
E3-3	Esker 3	Sand with gravel	70	13	4.5	3.0	1.1	3.1	2.7	0.35	0.090	0.060	0.030	< 0.01	2.4	101	
E3-4	Esker 3	Sand	70	13	4.6	2.9	1.2	2.9	2.9	0.36	0.090	0.050	0.030	0.010	2.7	101	
E3-5	Esker 3	Sand	69	13	4.9	3.4	1.1	2.8	3.0	0.37	0.10	0.050	0.040	< 0.01	2.5	100	
			MINIMUM	69	13	4.3	2.9	1.1	2.8	2.7	0.34	0.090	0.040	0.030	< 0.01	2.4	100
			MAXIMUM	71	13	4.9	3.4	1.2	3.1	3.2	0.37	0.10	0.060	0.040	0.010	2.7	101
			MEDIAN	70	13	4.6	3.0	1.1	2.9	3.0	0.35	0.10	0.050	0.040	nc	2.4	101
			AVERAGE	70	13	4.6	3.1	1.1	2.9	3.0	0.35	0.096	0.052	0.036	nc	2.5	101
			STANDARD DEVIATION	0.66	0.14	0.19	0.19	0.034	0.11	0.16	0.010	0.0049	0.0075	0.0049	nc	0.11	0.37
			75TH PERCENTILE	70	13	4.7	3.2	1.1	2.9	3.0	0.36	0.10	0.060	0.040	nc	2.5	101
E4-1	Esker 4	Sand with gravel	67	12	5.1	6.0	1.7	2.6	2.3	0.35	0.090	0.070	0.080	< 0.01	3.3	101	
E4-2	Esker 4	Sand with gravel	71	12	4.6	3.6	1.2	2.8	2.5	0.38	0.090	0.050	0.050	< 0.01	3.0	101	
			MINIMUM	67	12	4.6	3.6	1.2	2.6	2.3	0.35	0.090	0.050	0.050	<0.01	3.0	101
			MAXIMUM	71	12	5.1	6.0	1.7	2.8	2.5	0.38	0.090	0.070	0.080	<0.01	3.3	101
			MEDIAN	69	12	4.9	4.8	1.4	2.7	2.4	0.37	0.090	0.060	0.065	nc	3.1	101
			AVERAGE	69	12	4.9	4.8	1.4	2.7	2.4	0.37	0.090	0.060	0.065	nc	3.1	101
			STANDARD DEVIATION	1.7	0.050	0.25	1.2	0.23	0.095	0.11	0.015	0.0	0.0100	0.015	nc	0.16	0.10
			75TH PERCENTILE	70	12	5.0	5.4	1.5	2.8	2.4	0.37	0.090	0.065	0.073	nc	3.2	101
E5-1	Esker 5	Sand with gravel	75	12	3.2	1.9	0.74	2.7	2.9	0.29	0.080	0.030	0.030	< 0.01	2.1	101	
E5-2	Esker 5	Sand	73	12	3.7	2.4	0.81	2.6	3.0	0.30	0.080	0.040	0.030	< 0.01	2.5	101	
E5-3	Esker 5	Sand with gravel	73	12	3.6	2.3	1.1	2.9	3.0	0.32	0.090	0.040	0.040	< 0.01	2.1	100	
E5-4	Esker 5	Sand and gravel	74	12	3.2	1.8	0.88	2.8	3.0	0.29	0.080	0.030	0.030	0.010	1.9	99	
			MINIMUM	73	12	3.2	1.8	0.74	2.6	2.9	0.29	0.080	0.030	0.030	< 0.01	1.9	99
			MAXIMUM	75	12	3.7	2.4	1.1	2.9	3.0	0.32	0.090	0.040	0.040	0.010	2.5	101
			MEDIAN	74	12	3.4	2.1	0.85	2.7	3.0	0.30	0.080	0.035	0.030	nc	2.1	101
			AVERAGE	74	12	3.4	2.1	0.88	2.7	3.0	0.30	0.083	0.035	0.033	nc	2.1	100
			STANDARD DEVIATION	1.0	0.33	0.24	0.27	0.13	0.11	0.064	0.012	0.0043	0.0050	0.0043	nc	0.24	0.78
			75TH PERCENTILE	74	12	3.6	2.3	0.93	2.8	3.0	0.31	0.083	0.040	0.033	nc	2.2	101
E6-1	Esker 6	Gravel with sand	76	12	3.1	1.4	0.84	2.7	3.3	0.25	0.070	0.020	0.030	< 0.01	1.7	101	
E6-2	Esker 6	Sand with gravel	75	12	3.0	1.4	0.88	2.6	3.2	0.29	0.090	0.030	0.020	< 0.01	2.3	101	
E6-3	Esker 6	Gravel and sand	76	11	3.5	2.0	0.90	2.4	2.9	0.30	0.090	0.030	0.040	< 0.01	2.0	102	
E6-4	Esker 6	Gravel and sand	76	11	2.9	1.6	0.92	2.5	2.9	0.28	0.070	0.030	0.030	< 0.01	2.3	101	
			MINIMUM	75	11	2.9	1.4	0.84	2.4	2.9	0.25	0.070	0.020	0.020	<0.01	1.7	101
			MAXIMUM	76	12	3.5	2.0	0.92	2.7	3.3	0.30	0.090	0.030	0.040	<0.01	2.3	102
			MEDIAN	76	12	3.0	1.5	0.89	2.5	3.1	0.29	0.080	0.030	0.030	nc	2.1	101
			AVERAGE	76	12	3.1	1.6	0.89	2.5	3.1	0.28	0.080	0.028	0.030	nc	2.1	101
			STANDARD DEVIATION	0.42	0.41	0.20	0.24	0.030	0.12	0.19	0.019	0.010	0.0043	0.0071	nc	0.23	0.27
			75TH PERCENTILE	76	12	3.2	1.7	0.91	2.6	3.3	0.29	0.090	0.030	0.033	nc	2.3	101

CCME Soil Quality Guidelines for the Protection of Environmental and Human Health (Industrial Use) ¹					12	2000				22		87	91		50					
Sample ID	Location	Primary composition	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	Li	Mg	Mn	Mo
			µg/g	µg/g	ug/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g
E1-1	Esker 1	Gravel and sand	0.15	44000	12	450	1.0	13	5200	0.17	11	80	13	32000	< 0.05	17000	19	9400	400	1.1
E1-2	Esker 1	Sand with gravel	0.23	48000	14	510	1.1	18	3300	0.19	10	88	18	29000	< 0.05	21000	17	8400	350	0.80
E1-3	Esker 1	Sand with gravel	0.15	39000	14	510	1.2	11	2500	0.18	8.3	81	11	23000	< 0.05	21000	17	6500	300	1.0
E1-4	Esker 1	Sand and gravel	0.13	40000	16	400	1.1	11	3000	0.15	8.8	70	11	25000	< 0.05	17000	17	7100	310	0.70
E1-5	Esker 1	Gravel with sand	< 0.01	21000	13	170	0.50	12	2000	0.070	9.1	44	12	23000	< 0.05	5600	14	6500	310	1.0
MINIMUM MAXIMUM MEDIAN AVERAGE STANDARD DEVIATION 75TH PERCENTILE			<0.01	21000	12	170	0.50	11	2000	0.070	8.3	44	11	23000	<0.05	5600	14	6500	300	0.70
			0.23	48000	16	510	1.2	18	5200	0.19	11	88	18	32000	<0.05	21000	19	9400	400	1.1
			0.15	40000	14	450	1.1	12	3000	0.17	9.1	80	12	25000	nc	17000	17	7100	310	1.0
			0.13	38400	14	408	0.98	13	3200	0.15	9.4	73	13	26400	nc	16320	17	7580	334	0.92
			0.071	9265	1.3	126	0.25	2.6	1094	0.043	0.96	15	2.6	3555	nc	5651	1.6	1144	37	0.15
			0.15	44000	14	510	1.1	13	3300	0.18	10	81	13	29000	nc	21000	17	8400	350	1.0
E2-1	Esker 2	Sand with gravel	0.020	44000	5.9	520	1.4	6.8	8100	0.14	5.7	24	6.8	24000	< 0.05	20000	13	5400	340	0.70
E2-2	Esker 2	Sand with gravel	0.17	48000	13	660	1.6	12	6800	0.21	7.4	60	12	26000	< 0.05	26000	15	6200	330	0.80
E2-3	Esker 2	Sand with gravel	0.18	49000	5.0	660	1.7	7.1	7300	0.23	5.4	50	7.1	25000	< 0.05	25000	13	5600	370	0.70
E2-4	Esker 2	Sand and gravel	0.18	48000	6.0	640	1.8	7.8	7000	0.21	4.8	51	7.8	24000	< 0.05	26000	14	4600	320	0.70
MINIMUM MAXIMUM MEDIAN AVERAGE STANDARD DEVIATION 75TH PERCENTILE			0.020	44000	5	520	1.40	7	6800	0.140	4.8	24	7	24000	<0.05	20000	13	4600	320	0.70
			0.18	49000	13	660	1.8	12	8100	0.23	7	60	12	26000	<0.05	26000	15	6200	370	0.8
			0.18	48000	6	650	1.7	7	7150	0.21	5.6	51	7	24500	nc	25500	14	5500	335	0.7
			0.14	47250	7	620	1.63	8	7300	0.20	5.8	46	8	24750	nc	24250	14	5450	340	0.73
			0.068	1920	3.2	58	0.15	2.1	495	0.034	0.97	13	2.1	829	nc	2487	0.8	572	19	0.04
			0.18	48250	8	660	1.7	9	7500	0.22	6	53	9	25250	nc	26000	14	5750	348	0.7
E3-1	Esker 3	Sand	0.090	50000	5.4	650	1.5	7.9	6300	0.16	12	120	7.9	26000	< 0.05	26000	18	15000	500	0.50
E3-2	Esker 3	Sand	0.13	48000	4.3	610	1.5	9.9	6500	0.16	13	110	9.9	27000	< 0.05	24000	18	16000	430	0.40
E3-3	Esker 3	Sand with gravel	0.12	49000	4.1	570	1.4	8.3	6500	0.17	11	100	8.3	27000	< 0.05	22000	18	15000	430	0.50
E3-4	Esker 3	Sand	0.10	51000	4.4	590	1.4	7.4	6700	0.18	12	110	7.4	27000	< 0.05	23000	17	15000	440	1.1
E3-5	Esker 3	Sand	0.14	49000	5.7	640	1.5	11	6500	0.18	14	130	11	29000	< 0.05	24000	20	17000	470	1.5
MINIMUM MAXIMUM MEDIAN AVERAGE STANDARD DEVIATION 75TH PERCENTILE			0.090	48000	4	570	1.40	7	6300	0.160	11.0	100	7	26000	<0.05	22000	17	15000	430	0.40
			0.14	51000	6	650	1.5	11	6700	0.18	14	130	11	29000	<0.05	26000	20	17000	500	1.5
			0.12	49000	4	610	1.5	8	6500	0.17	12.0	110	8	27000	nc	24000	18	15000	440	0.5
			0.12	49400	5	612	1.46	9	6500	0.17	12.4	114	9	27200	nc	23800	18	15600	454	0.80
			0.019	1020	0.6	30	0.05	1.3	126	0.009	1.02	10	1.3	980	nc	1327	1.0	800	27	0.43
			0.13	50000	5	640	1.5	10	6500	0.18	13	120	10	27000	nc	24000	18	16000	470	1.1
E4-1	Esker 4	Sand with gravel	0.11	53000	6.9	490	1.1	16	11000	0.16	21	250	16	32000	< 0.05	18000	18	31000	570	0.50
E4-2	Esker 4	Sand with gravel	0.13	46000	4.8	510	1.5	7.5	6600	0.19	14	160	7.5	27000	< 0.05	19000	15	19000	460	0.50
MINIMUM MAXIMUM MEDIAN AVERAGE STANDARD DEVIATION 75TH PERCENTILE			0.110	46000	5	490	1.10	8	6600	0.160	14.0	160	8	27000	<0.05	18000	15	19000	460	0.50
			0.13	53000	7	510	1.5	16	11000	0.19	21	250	16	32000	<0.05	19000	18	31000	570	0.5
			0.12	49500	6	500	1.3	12	8800	0.18	17.5	205	12	29500	nc	18500	17	25000	515	0.5
			0.12	49500	6	500	1.30	12	8800	0.18	17.5	205	12	29500	nc	18500	17	25000	515	0.50
			0.010	3500	1.1	10	0.20	4.3	2200	0.015	3.50	45	4.3	2500	nc	500	1.5	6000	55	0.00
			0.13	51250	6	505	1.4	14	9900	0.18	19	228	14	30750	nc	18750	17	28000	543	0.5
E5-1	Esker 5	Sand with gravel	0.20	46000	3.0	540	1.3	6.8	4300	0.16	7.1	83	6.8	19000	< 0.05	23000	14	9400	320	0.50
E5-2	Esker 5	Sand	0.12	48000	4.1	560	1.3	7.9	4800	0.16	9.9	100	7.9	23000	< 0.05	25000	15	12000	370	0.70
E5-3	Esker 5	Sand with gravel	0.13	48000	4.1	550	1.4	8.1	6400	0.16	8.7	94	8.1	21000	< 0.05	24000	15	12000	360	0.60
E5-4	Esker 5	Sand and gravel	0.11	47000	2.2	560	1.5	5.7	5100	0.17	6.5	80	5.7	19000	< 0.05	24000	13	8900	320	0.60
MINIMUM MAXIMUM MEDIAN AVERAGE STANDARD DEVIATION 75TH PERCENTILE			0.110	46000	2	540	1.30	6	4300	0.160	6.5	80	6	19000	<0.05	23000	13	8900	320	0.50
			0.20	48000	4	560	1.5	8	6400	0.17	10	100	8	23000	<0.05	25000	15	12000	370	0.7
			0.13	47500	4	555	1.4	7	4950	0.16	7.9	89	7	20000	nc	24000	15	10700	340	0.6
			0.14	47250	3	553	1.38	7	5150	0.16	8.1	89	7	20500	nc	24000	14	10575	343	0.60
			0.035	829	0.8	8	0.08	1.0	776	0.004	1.34	8	1.0	1658	nc	707	0.8	1436	23	0.07
			0.15	48000	4	560	1.4	8	5425	0.16	9	96	8	21500	nc	24250	15	12000	363	0.6
E6-1	Esker 6	Gravel with sand	0.11	45000	7.4	550	1.4	5.8	4600	0.15	6.5	70	5.8	18000	< 0.05	26000	13	6300	320	0.50
E6-2	Esker 6	Sand with gravel	0.080	49000	2.4	560	1.4	170	5200	0.14	6.0	66	170	18000	< 0.05	26000	15	6700	310	0.40
E6-3	Esker 6	Gravel and sand	0.11	44000	3.7	510	1.4	7.2	5200	0.15	8.3	80	7.2	20000	< 0.05	22000	16	9800	310	0.50
E6-4	Esker 6	Gravel and sand	0.080	45000	3.1	540	1.2	4.9	5400	0.13	6.2	86	4.9	17000	< 0.05	23000	15	7600	300	0.40
MINIMUM MAXIMUM MEDIAN AVERAGE STANDARD DEVIATION 75TH PERCENTILE			0.080	44000	2	510	1.20	5	4600	0.130	6.0	66	5	17000	<0.05	22000	13	6300	300	0.40
			0.11	49000	7	560	1.4	170	5400	0.15	8	86	170	20000	<0.05	26000	16	9800	320	0.5
			0.10	45000	3	545	1.4	7	5200	0.15	6.4	75	7	18000	nc	24500	15	7150	310	0.5
			0.10	45750	4	540	1.35	47	5100	0.14	6.8	76	47	18250	nc	24250	15	7600	310	0.45
			0.015	1920	1.9	19	0.09	71.0	300	0.008	0.91	8	71.0	1090	nc	1785	1.1	1355	7	0.05
			0.11	46000	5															

Notes:
1- CEQG Soil Quality Guidelines for the Protection of Environmental and Human Health, Industrial Land Use (CCME, 2007).
Bolded and shaded values = values above CCME Industrial Soil Guideline
nc = not calculated

CCME Soil Quality Guidelines for the Protection of Environmental and Human Health (Industrial Use) ¹				50	600		2.9				1	300	130		360
Sample ID	Location	Primary composition	Na	Ni	Pb	Sb	Se	Sn	Sr	Ti	Tl	U	V	Y	Zn
			µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g
E1-1	Esker 1	Gravel and sand	12000	48	9.5	< 0.8	< 0.7	0.70	120	890	0.37	2.0	52	6.4	46
E1-2	Esker 1	Sand with gravel	13000	42	11	2.3	< 0.7	0.90	110	900	0.42	2.2	52	7.2	43
E1-3	Esker 1	Sand with gravel	12000	32	11	< 0.8	1.1	0.90	88	840	0.48	2.0	45	5.6	40
E1-4	Esker 1	Sand and gravel	11000	39	11	< 0.8	0.90	0.70	94	660	0.38	1.8	44	5.5	37
E1-5	Esker 1	Gravel with sand	510	33	7.1	< 0.8	1.4	< 0.5	32	420	0.16	1.7	30	7.5	35
MINIMUM			510	32	7.1	<0.8	<0.7	<0.5	32	420	0.16	1.7	30	5.5	35
			13000	48	11	2.3	1.4	0.90	120	900	0.48	2.2	52	7.5	46
			12000	39	11	nc	0.90	0.70	94	840	0.38	2.0	45	6.4	40
			9702	39	9.9	nc	0.96	0.74	89	742	0.36	1.9	45	6.4	40
			4639	5.9	1.5	nc	0.27	0.15	31	183	0.11	0.17	8.0	0.81	4.0
			12000	42	11	nc	1.1	0.90	110	890	0.42	2.0	52	7.2	43
E2-1	Esker 2	Sand with gravel	12000	17	14	< 0.8	1.3	1.3	130	1400	0.42	2.5	29	15	44
E2-2	Esker 2	Sand with gravel	16000	30	14	< 0.8	1.0	1.2	150	1400	0.50	2.4	37	9.8	40
E2-3	Esker 2	Sand with gravel	18000	22	14	< 0.8	1.6	1.5	140	1600	0.50	2.5	29	11	44
E2-4	Esker 2	Sand and gravel	19000	13	14	< 0.8	1.1	1.5	130	1500	0.49	2.6	26	12	40
MINIMUM			12000	13	14.0	<0.8	1.000	1.200	130	1400	0.42	2.4	26	9.8	40
			19000	30	14	<0.8	1.6	1.50	150	1600	0.50	2.6	37	15.0	44
			17000	20	14	nc	1.20	1.40	135	1450	0.50	2.5	29	11.5	42
			16250	21	14.0	nc	1.25	1.38	138	1475	0.48	2.5	30	12.0	42
			2681	6.3	0.0	nc	0.23	0.13	8	83	0.03	0.07	4.1	1.93	2.0
			18250	24	14	nc	1.4	1.50	143	1525	0.50	2.5	31	12.8	44
E3-1	Esker 3	Sand	19000	89	11	< 0.8	0.90	0.90	160	1200	0.41	1.3	42	5.5	45
E3-2	Esker 3	Sand	19000	95	11	< 0.8	1.3	0.80	160	1200	0.40	1.4	45	6.1	46
E3-3	Esker 3	Sand with gravel	21000	82	11	< 0.8	1.1	0.80	160	1300	0.35	1.4	42	6.3	46
E3-4	Esker 3	Sand	19000	77	11	< 0.8	1.1	0.90	160	1300	0.36	1.4	43	6.0	47
E3-5	Esker 3	Sand	18000	110	11	< 0.8	1.6	0.80	160	1300	0.39	1.4	47	6.2	50
MINIMUM			18000	77	11.0	<0.8	0.900	0.800	160	1200	0.35	1.3	42	5.5	45
			21000	110	11	<0.8	1.6	0.90	160	1300	0.41	1.4	47	6.3	50
			19000	89	11	nc	1.10	0.80	160	1300	0.39	1.4	43	6.1	46
			19200	91	11.0	nc	1.20	0.84	160	1260	0.38	1.4	44	6.0	47
			980	11.5	0.0	nc	0.24	0.05	0	49	0.02	0.04	1.9	0.28	1.7
			19000	95	11	nc	1.3	0.90	160	1300	0.40	1.4	45	6.2	47
E4-1	Esker 4	Sand with gravel	17000	240	8.4	< 0.8	1.3	0.70	150	1200	0.28	1.3	53	7.0	46
E4-2	Esker 4	Sand with gravel	19000	130	7.9	< 0.8	1.7	0.90	120	1200	0.34	1.4	45	6.3	45
MINIMUM			17000	130	7.9	<0.8	1.300	0.700	120	1200	0.28	1.3	45	6.3	45
			19000	240	8	<0.8	1.7	0.90	150	1200	0.34	1.4	53	7.0	46
			18000	185	8	nc	1.50	0.80	135	1200	0.31	1.4	49	6.7	46
			18000	185	8.2	nc	1.50	0.80	135	1200	0.31	1.4	49	6.7	46
			1000	55.0	0.3	nc	0.20	0.10	15	0	0.03	0.05	4.0	0.35	0.5
			18500	213	8	nc	1.6	0.85	143	1200	0.33	1.4	51	6.8	46
E5-1	Esker 5	Sand with gravel	18000	50	7.2	1.2	1.5	0.90	120	1000	0.33	1.5	27	6.1	34
E5-2	Esker 5	Sand	17000	79	8.3	< 0.8	0.90	0.80	120	1000	0.33	1.5	33	5.8	36
E5-3	Esker 5	Sand with gravel	19000	63	7.6	< 0.8	1.6	0.90	120	1200	0.32	1.8	33	7.5	35
E5-4	Esker 5	Sand and gravel	18000	45	8.0	< 0.8	1.7	0.80	140	1200	0.31	1.6	28	6.6	34
MINIMUM			17000	45	7.2	<0.8	0.900	0.800	120	1000	0.31	1.5	27	5.8	34
			19000	79	8	1.2	1.7	0.90	140	1200	0.33	1.8	33	7.5	36
			18000	57	8	nc	1.55	0.85	120	1100	0.33	1.6	31	6.4	35
			18000	59	7.8	nc	1.43	0.85	125	1100	0.32	1.6	30	6.5	35
			707	13.2	0.4	nc	0.31	0.05	9	100	0.01	0.12	2.8	0.64	0.8
			18250	67	8	nc	1.6	0.90	125	1200	0.33	1.7	33	6.8	35
E6-1	Esker 6	Gravel with sand	17000	31	10	< 0.8	1.6	1.0	110	1000	0.37	2.8	24	6.5	33
E6-2	Esker 6	Sand with gravel	17000	32	6.6	< 0.8	1.9	1.1	140	1200	0.29	1.4	27	6.5	35
E6-3	Esker 6	Gravel and sand	15000	56	7.3	< 0.8	2.4	0.80	120	1300	0.29	1.7	29	7.2	34
E6-4	Esker 6	Gravel and sand	15000	44	6.7	< 0.8	1.7	0.70	110	1100	0.27	1.3	25	5.4	31
MINIMUM			15000	31	6.6	<0.8	1.600	0.700	110	1000	0.27	1.3	24	5.4	31
			17000	56	10	<0.8	2.4	1.10	140	1300	0.37	2.8	29	7.2	35
			16000	38	7	nc	1.80	0.90	115	1150	0.29	1.6	26	6.5	34
			16000	41	7.7	nc	1.90	0.90	120	1150	0.31	1.8	26	6.4	33
			1000	10.2	1.4	nc	0.31	0.16	12	112	0.04	0.60	1.9	0.64	1.5
			17000	47	8	nc	2.0	1.03	125	1225	0.31	2.0	28	6.7	34

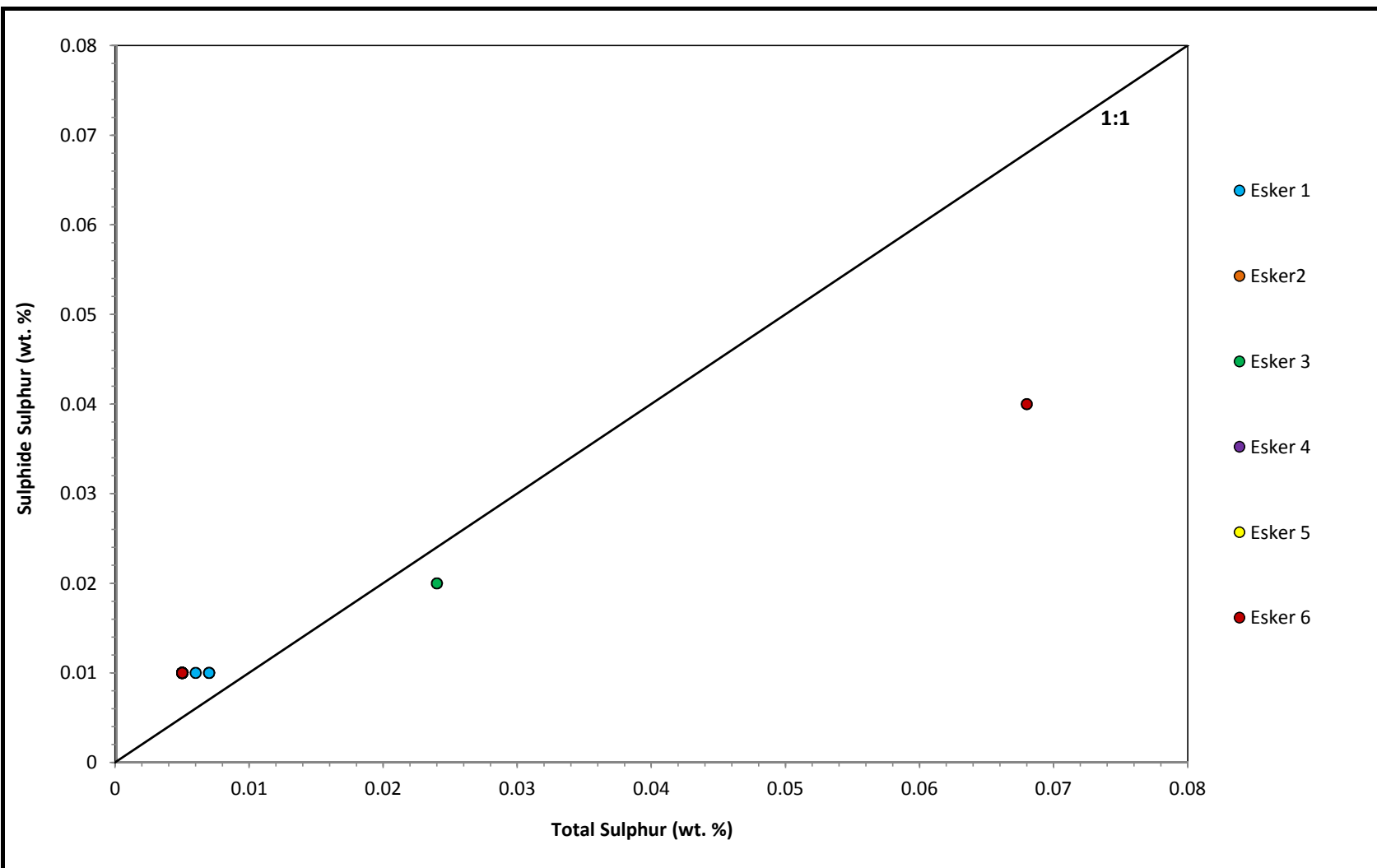
Notes:
1- CEQG Soil Quality Guidelines for the Protection of Environmental and Human Health, Industrial Land Use (CCME, 2007).
Bolded and shaded values = values above CCME Industrial Soil Guideline
nc = not calculated

Sample ID	Location	Primary composition	Paste pH	NAG pH	Total Carbon	Carbonate	CaNP	Total Sulphur	Sulphate	Sulphide Sulphur	NP	AP	Net NP	NPR	ARD Potential
			-	-	%	%	t CaCO ₃ /1000 t	%	%	%	t CaCO ₃ /1000t			Ratio	%
E1-1	Esker 1	Gravel and sand	7.8	7.7	0.16	0.17	2.8	0.0070	< 0.01	< 0.01	3.6	0.31	3.3	12	non PAG
E1-2	Esker 1	Sand with gravel	7.6	6.8	0.072	0.045	0.75	< 0.005	< 0.01	< 0.01	3.4	0.31	3.1	11	non PAG
E1-3	Esker 1	Sand with gravel	6.7	6.1	0.46	0.020	0.33	0.0060	< 0.01	< 0.01	2.6	0.31	2.3	8.4	non PAG
E1-4	Esker 1	Sand and gravel	7.5	6.4	0.14	0.020	0.33	< 0.005	< 0.01	< 0.01	2.3	0.31	2.0	7.4	non PAG
E1-5	Esker 1	Gravel with sand	7.6	6.6	0.072	0.030	0.50	0.0070	< 0.01	0.010	3.1	0.31	2.8	9.9	non PAG
Esker 1		BULK ARD POTENTIAL									15	1.6	13	9.6	non PAG
		MINIMUM	6.7	6.1	0.072	0.020	0.33	<0.005	<0.01	< 0.01	2.3	0.31	2.0	7.4	
		MAXIMUM	7.8	7.7	0.46	0.17	2.8	0.0070	<0.01	0.010	3.6	0.31	3.3	12	
		MEDIAN	7.6	6.6	0.14	0.030	0.50	0.0060	nc	nc	3.1	0.31	2.8	9.9	
		AVERAGE	7.5	6.7	0.18	0.057	0.95	0.0060	nc	nc	3.0	0.31	2.7	9.7	
		STANDARD DEVIATION	0.39	0.54	0.14	0.057	0.95	0.00089	nc	nc	0.49	0.0	0.49	1.6	
		75TH PERCENTILE	7.6	6.8	0.16	0.045	0.75	0.0070	nc	nc	3.4	0.31	3.1	11	
E2-1	Esker 2	Sand with gravel	7.3	6.2	0.18	0.010	0.17	< 0.005	< 0.01	< 0.01	3.1	0.31	2.8	10	non PAG
E2-2	Esker 2	Sand with gravel	7.1	6.3	0.31	0.015	0.25	< 0.005	< 0.01	< 0.01	4.2	0.31	3.9	14	non PAG
E2-3	Esker 2	Sand with gravel	6.9	6.1	0.26	0.025	0.42	< 0.005	< 0.01	< 0.01	3.6	0.31	3.3	12	non PAG
E2-4	Esker 2	Sand and gravel	7.4	6.5	0.20	0.050	0.83	< 0.005	< 0.01	< 0.01	5.1	0.31	4.8	17	non PAG
Esker 2		BULK ARD POTENTIAL									16	1.3	15	13	non PAG
		MINIMUM	6.9	6.1	0.18	0.010	0.17	<0.005	<0.01	<0.01	3.1	0.31	2.8	10	
		MAXIMUM	7.4	6.5	0.31	0.050	0.83	<0.005	<0.01	<0.01	5.1	0.31	4.8	17	
		MEDIAN	7.2	6.2	0.23	0.020	0.33	nc	nc	nc	3.9	0.31	3.6	13	
		AVERAGE	7.2	6.3	0.24	0.025	0.42	nc	nc	nc	4.0	0.31	3.7	13	
		STANDARD DEVIATION	0.19	0.15	0.052	0.015	0.26	nc	nc	nc	0.74	0.0	0.74	2.4	
		75TH PERCENTILE	7.3	6.4	0.27	0.031	0.52	nc	nc	nc	4.4	0.31	4.1	14	
E3-1	Esker 3	Sand	7.3	6.7	0.13	0.015	0.25	< 0.005	< 0.01	< 0.01	3.2	0.31	2.9	10	non PAG
E3-2	Esker 3	Sand	8.1	7.0	0.094	0.010	0.17	< 0.005	< 0.01	< 0.01	4.1	0.31	3.8	13	non PAG
E3-3	Esker 3	Sand with gravel	7.7	6.3	0.19	0.035	0.58	0.024	< 0.01	0.020	4.8	0.31	4.2	7.7	non PAG
E3-4	Esker 3	Sand	7.4	6.5	0.25	0.020	0.33	< 0.005	< 0.01	< 0.01	3.3	0.31	3.0	11	non PAG
E3-5	Esker 3	Sand	7.9	7.0	0.095	0.010	0.17	< 0.005	< 0.01	< 0.01	4.0	0.31	3.7	13	non PAG
Esker 3		BULK ARD POTENTIAL									19	1.6	18	12	non PAG
		MINIMUM	7.3	6.3	0.094	0.010	0.17	<0.005	<0.01	<0.01	3.2	0.31	2.9	7.7	
		MAXIMUM	8.1	7.0	0.25	0.035	0.58	0.024	<0.01	0.020	4.8	0.31	4.2	13	
		MEDIAN	7.7	6.7	0.13	0.015	0.25	nc	nc	nc	4.0	0.31	3.7	11	
		AVERAGE	7.7	6.7	0.15	0.018	0.30	nc	nc	nc	3.9	0.31	3.5	11	
		STANDARD DEVIATION	0.32	0.25	0.060	0.0093	0.15	nc	nc	nc	0.58	0.0	0.49	2.0	
		75TH PERCENTILE	7.9	7.0	0.19	0.020	0.33	nc	nc	nc	4.1	0.31	3.8	13	
E4-1	Esker 4	Sand with gravel	8.9	8.3	0.20	0.32	5.3	< 0.005	< 0.01	< 0.01	8.0	0.31	7.7	26	non PAG
E4-2	Esker 4	Sand with gravel	7.6	6.8	0.35	0.030	0.50	< 0.005	< 0.01	< 0.01	4.1	0.31	3.8	13	non PAG
Esker 4		BULK ARD POTENTIAL									12	0.63	11	19	non PAG
		MINIMUM	7.6	6.8	0.20	0.030	0.50	<0.005	<0.01	<0.01	4.1	0.31	3.8	13	
		MAXIMUM	8.9	8.3	0.35	0.32	5.3	<0.005	<0.01	<0.01	8.0	0.31	7.7	26	
		MEDIAN	8.2	7.5	0.28	0.18	2.9	nc	nc	nc	6.1	0.31	5.7	20	
		AVERAGE	8.2	7.5	0.28	0.18	2.9	nc	nc	nc	6.1	0.31	5.7	20	
		STANDARD DEVIATION	0.68	0.79	0.072	0.15	2.4	nc	nc	nc	2.0	0.0	2.0	6.3	
		75TH PERCENTILE	8.6	7.9	0.31	0.25	4.1	nc	nc	nc	7.0	0.31	6.7	23	
E5-1	Esker 5	Sand with gravel	7.4	6.4	0.15	0.015	0.25	< 0.005	< 0.01	< 0.01	3.2	0.31	2.9	10	non PAG
E5-2	Esker 5	Sand	7.1	6.6	0.21	0.020	0.33	< 0.005	< 0.01	< 0.01	3.8	0.31	3.5	12	non PAG
E5-3	Esker 5	Sand with gravel	7.8	7.4	0.12	0.10	1.7	< 0.005	< 0.01	< 0.01	5.3	0.31	5.0	17	non PAG
E5-4	Esker 5	Sand and gravel	7.7	6.4	0.13	0.015	0.25	< 0.005	< 0.01	< 0.01	3.7	0.31	3.4	12	non PAG
Esker 5		BULK ARD POTENTIAL									16	1.3	15	13	non PAG
		MINIMUM	7.1	6.4	0.12	0.015	0.25	<0.005	<0.01	<0.01	3.2	0.31	2.9	10	
		MAXIMUM	7.8	7.4	0.21	0.10	1.7	<0.005	<0.01	<0.01	5.3	0.31	5.0	17	
		MEDIAN	7.5	6.5	0.14	0.018	0.29	nc	nc	nc	3.8	0.31	3.4	12	
		AVERAGE	7.5	6.7	0.15	0.038	0.63	nc	nc	nc	4.0	0.31	3.7	13	
		STANDARD DEVIATION	0.25	0.39	0.036	0.036	0.60	nc	nc	nc	0.78	0.0	0.78	2.5	
		75TH PERCENTILE	7.7	6.8	0.17	0.040	0.67	nc	nc	nc	4.2	0.31	3.9	14	
E6-1	Esker 6	Gravel with sand	7.4	4.3	0.094	0.020	0.33	0.068	0.030	0.040	3.1	1.3	1.9	2.5	non PAG
E6-2	Esker 6	Sand with gravel	7.1	6.7	0.26	0.040	0.67	< 0.005	< 0.01	< 0.01	3.9	0.31	3.6	13	non PAG
E6-3	Esker 6	Gravel and sand	7.8	6.7	0.090	0.020	0.33	0.0050	< 0.01	< 0.01	2.3	0.31	2.0	7.4	non PAG
E6-4	Esker 6	Gravel and sand	6.7	6.2	0.34	0.020	0.33	< 0.005	< 0.01	< 0.01	4.2	0.31	3.9	14	non PAG
Esker 6		BULK ARD POTENTIAL									14	2.2	11	6.2	non PAG
		MINIMUM	6.7	4.3	0.090	0.020	0.33	< 0.005	<0.01	<0.01	2.3	0.31	1.9	2.5	
		MAXIMUM	7.8	6.7	0.34	0.040	0.67	0.068	0.030	0.040	4.2	1.3	3.9	14	
		MEDIAN	7.2	6.4	0.18	0.020	0.33	0.0050	nc	nc	3.5	0.31	2.8	10	
		AVERAGE	7.2	6.0	0.20	0.025	0.42	0.021	nc	nc	3.4	0.55	2.8	9.0	
		STANDARD DEVIATION	0.41	0.96	0.11	0.0087	0.14	0.027	nc	nc	0.74	0.41	0.92	4.4	
		75TH PERCENTILE	7.5	6.7	0.28	0.025	0.42	0.021	nc	nc	4.0	0.55	3.7	13	

Notes:
NP = Neutralization Potential, CaNP = Carbonate NP, AP = Acid potential, Net NP = Net Neutralization Potential (NP-AP), NPR = Net Potential Ratio (NP/AP), CaNPR = Carbonate NPR, ARD = Acid Rock Drainage potential (based on MEND 2009)
nc = not calculated

CCME (for the Protection of Freshwater Aquatic Life) ¹			6.5-9					0.000026	0.0001			0.005			1.5				0.00009			0.002	0.3
MMER (monthly mean concentration) ²			6-9.5									0.5										0.3	
Sample ID	Location	Primary composition	Final pH (after 18 hours)	Conduct-ivity	Alkalinity	SO4	Hg	Ag	Al	As	Ba	B	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe			
			-	uS/cm	mg/L as CaCO ₃	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
E1-1	Esker 1	Gravel and sand	7.2	84	35	< 2	< 0.00001	0.000018	0.45	0.0018	0.0069	0.25	< 0.000007	< 0.000007	2.5	0.0000050	0.00039	0.00099	0.0018	0.30			
E1-2	Esker 1	Sand with gravel	7.2	46	23	< 2	< 0.00001	0.000034	1.0	0.0046	0.0040	0.33	< 0.000007	< 0.000007	0.080	0.0000070	0.00093	0.0017	0.0032	0.45			
E1-3	Esker 1	Sand with gravel	6.2	61	30	< 2	< 0.00001	0.000038	1.1	0.0035	0.0071	0.47	0.000019	< 0.000007	0.33	0.000039	0.00077	0.0028	0.0035	0.67			
E1-4	Esker 1	Sand and gravel	6.8	45	24	< 2	< 0.00001	0.000061	1.6	0.0057	0.0045	0.40	0.000011	< 0.000007	0.10	0.000024	0.00088	0.0023	0.0057	0.62			
E1-5	Esker 1	Gravel with sand	7.5	48	23	< 2	< 0.00001	0.000038	0.70	0.0041	0.011	0.30	0.000015	< 0.000007	0.34	0.000010	0.0015	0.0024	0.0031	0.71			
			MINIMUM	6.2	45	23	<2	<0.00001	0.000018	0.45	0.0018	0.0040	0.25	<0.000007	<0.000007	0.080	0.0000050	0.00039	0.00099	0.0018	0.30		
			MAXIMUM	7.5	84	35	<2	<0.00001	0.000061	1.6	0.0057	0.011	0.47	0.000019	<0.000007	2.5	0.000039	0.0015	0.0028	0.0057	0.71		
			MEDIAN	7.2	48	24	nc	nc	0.000038	1.0	0.0041	0.0069	0.33	0.000011	nc	0.33	0.000010	0.00088	0.0023	0.0032	0.62		
			AVERAGE	7.0	57	27	nc	nc	0.000038	0.98	0.0039	0.0066	0.35	0.000012	nc	0.67	0.000017	0.00089	0.0020	0.0034	0.55		
			STANDARD DEVIATION	0.45	15	4.8	nc	nc	0.000014	0.40	0.0013	0.0024	0.079	0.0000047	nc	0.91	0.000013	0.00035	0.00063	0.0012	0.15		
			75TH PERCENTILE	7.2	61	30	nc	nc	0.000038	1.1	0.0046	0.0071	0.40	0.000015	nc	0.34	0.000024	0.00093	0.0024	0.0035	0.67		
E2-1	Esker 2	Sand with gravel	6.7	60	30	< 2	< 0.00001	0.000031	0.81	0.0013	0.0089	0.41	0.000027	< 0.000007	0.70	< 0.000003	0.00074	0.0019	0.0020	0.68			
E2-2	Esker 2	Sand with gravel	6.2	51	26	< 2	< 0.00001	0.000029	0.57	0.0035	0.0067	0.43	0.000022	0.000011	0.97	< 0.000003	0.00099	0.0016	0.0038	0.66			
E2-3	Esker 2	Sand with gravel	6.3	72	37	< 2	< 0.00001	0.000020	1.2	0.0019	0.012	0.49	0.000032	0.000014	0.82	0.000040	0.00076	0.0023	0.0042	1.2			
E2-4	Esker 2	Sand and gravel	6.8	56	25	< 2	< 0.00001	0.000045	0.98	0.0020	0.011	0.38	0.000039	< 0.000007	0.53	0.000028	0.00064	0.0018	0.0021	0.71			
			MINIMUM	6.2	51	25	<2	<0.00001	0.000020	0.57	0.0013	0.0067	0.38	0.000022	<0.000007	0.53	<0.000003	0.00064	0.0016	0.0020	0.66		
			MAXIMUM	6.8	72	37	<2	<0.00001	0.000045	1.2	0.0035	0.012	0.49	0.000039	0.000014	0.97	0.000040	0.00099	0.0023	0.0042	1.2		
			MEDIAN	6.5	58	28	nc	nc	0.000030	0.90	0.0020	0.0097	0.42	0.000030	0.0000090	0.76	0.000016	0.00075	0.0018	0.0029	0.69		
			AVERAGE	6.5	60	30	nc	nc	0.000031	0.90	0.0022	0.0096	0.43	0.000030	0.0000098	0.76	0.000019	0.00078	0.0019	0.0030	0.80		
			STANDARD DEVIATION	0.26	7.8	4.7	nc	nc	0.0000090	0.24	0.00081	0.0020	0.039	0.0000063	0.0000029	0.16	0.000016	0.00013	0.00026	0.00097	0.20		
			75TH PERCENTILE	6.7	63	32	nc	nc	0.000035	1.0	0.0024	0.011	0.45	0.000034	0.000012	0.86	0.000031	0.00081	0.0020	0.0039	0.82		
E3-1	Esker 3	Sand	6.7	46	24	< 2	< 0.00001	0.000019	0.92	0.0017	0.0069	0.43	0.000016	< 0.000007	0.25	0.000010	0.0019	0.0097	0.0023	1.0			
E3-2	Esker 3	Sand	7.4	56	28	< 2	< 0.00001	0.000046	0.75	0.0022	0.012	0.36	0.000028	< 0.000007	0.41	0.0000070	0.0019	0.0085	0.0046	0.97			
E3-3	Esker 3	Sand with gravel	7.1	48	26	< 2	< 0.00001	0.000060	0.60	0.0012	0.0040	0.37	0.0000090	< 0.000007	0.19	< 0.000003	0.00065	0.0029	0.0017	0.41			
E3-4	Esker 3	Sand	6.8	63	29	< 2	< 0.00001	0.000049	0.88	0.0012	0.0093	0.41	0.000020	< 0.000007	0.46	< 0.000003	0.0013	0.0062	0.0019	0.87			
E3-5	Esker 3	Sand	7.6	50	23	< 2	< 0.00001	0.000045	0.66	0.0018	0.010	0.37	0.000025	< 0.000007	0.36	0.0000040	0.0016	0.0072	0.0028	0.77			
			MINIMUM	6.7	46	23	<2	<0.00001	0.000019	0.60	0.0012	0.0040	0.36	0.0000090	<0.000007	0.19	<0.000003	0.00065	0.0029	0.0017	0.41		
			MAXIMUM	7.6	63	29	<2	<0.00001	0.000060	0.92	0.0022	0.012	0.43	0.000028	<0.000007	0.46	0.000010	0.0019	0.0097	0.0046	1.0		
			MEDIAN	7.1	50	26	nc	nc	0.000046	0.75	0.0017	0.0093	0.37	0.000020	nc	0.36	0.0000040	0.0016	0.0072	0.0023	0.87		
			AVERAGE	7.1	53	26	nc	nc	0.000044	0.76	0.0016	0.0084	0.39	0.000020	nc	0.33	0.0000054	0.0015	0.0069	0.0027	0.81		
			STANDARD DEVIATION	0.35	6.2	2.3	nc	nc	0.000013	0.12	0.00038	0.0027	0.028	0.0000067	nc	0.10	0.0000027	0.00045	0.0023	0.0010	0.22		
			75TH PERCENTILE	7.4	56	28	nc	nc	0.000049	0.88	0.0018	0.010	0.41	0.000025	nc	0.41	0.0000070	0.0019	0.0085	0.0028	0.97		
E4-1	Esker 4	Sand with gravel	8.7	104	44	< 2	< 0.00001	0.000020	0.43	0.0063	0.0052	0.17	< 0.000007	< 0.000007	5.7	0.0000040	0.0013	0.0052	0.0060	0.51			
E4-2	Esker 4	Sand with gravel	6.8	56	27	< 2	< 0.00001	0.000071	0.56	0.00080	0.0055	0.36	0.0000090	< 0.000007	0.42	< 0.000003	0.0011	0.0055	0.0014	0.47			
			MINIMUM	6.8	56	27	<2	<0.00001	0.000020	0.43	0.00080	0.0052	0.17	<0.000007	<0.000007	0.42	<0.000003	0.0011	0.0052	0.0014	0.47		
			MAXIMUM	8.7	104	44	<2	<0.00001	0.000071	0.56	0.0063	0.0055	0.36	0.0000090	<0.000007	5.7	0.0000040	0.0013	0.0055	0.0060	0.51		
			MEDIAN	7.8	80	36	nc	nc	0.000046	0.50	0.0036	0.0053	0.26	nc	nc	3.0	nc	0.0012	0.0053	0.0037	0.49		
			AVERAGE	7.8	80	36	nc	nc	0.000046	0.50	0.0036	0.0053	0.26	nc	nc	3.0	nc	0.0012	0.0053	0.0037	0.49		
			STANDARD DEVIATION	0.95	24	8.5	nc	nc	0.000026	0.065	0.0028	0.00015	0.091	nc	nc	2.6	nc	0.00010	0.00014	0.0023	0.020		
			75TH PERCENTILE	8.2	92	40	nc	nc	0.000058	0.53	0.0049	0.0054	0.31	nc	nc	4.3	nc	0.0012	0.0054	0.0049	0.50		
E5-1	Esker 5	Sand with gravel	7.0	33	16	< 2	< 0.00001	0.000037	1.6	0.0019	0.0039	0.31	0.000016	< 0.000007	0.050	0.0000070	0.00068	0.0043	0.0019	0.48			
E5-2	Esker 5	Sand	6.6	52	26	< 2	< 0.00001	0.000034	0.73	0.0010	0.0068	0.43	0.000028	< 0.000007	0.15	< 0.000003	0.0013	0.0047	0.0023	0.50			
E5-3	Esker 5	Sand with gravel	7.2	56	28	< 2	< 0.00001	0.000028	0.48														

CCME (for the Protection of Freshwater Aquatic Life) ¹							0.073		0.025	0.001		0.001					0.0008	0.015			
MMER (monthly mean concentration) ²									0.5	0.2										0.5	
Sample ID	Location	Primary composition	K	Li	Mg	Mn	Mo	Na	Ni	Pb	Sb	Se	Si	Sn	Sr	Ti	Tl	U	V	Zn	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
E1-1	Esker 1	Gravel and sand	4.0	0.00088	0.86	0.010	0.0018	9.7	0.00060	0.00037	0.0010	< 0.001	5.7	0.000030	0.0061	0.0045	0.0000050	0.000093	0.00061	< 0.001	
E1-2	Esker 1	Sand with gravel	0.85	0.00052	0.10	0.035	0.0011	9.1	0.0012	0.00087	0.0015	< 0.001	5.2	0.000030	0.00050	0.0076	< 0.000005	0.00016	0.0013	0.0020	
E1-3	Esker 1	Sand with gravel	1.7	0.00093	0.18	0.027	0.00035	12	0.0013	0.00078	0.0010	< 0.001	11	0.000030	0.0010	0.014	0.0000060	0.00020	0.0012	0.0070	
E1-4	Esker 1	Sand and gravel	0.96	0.00050	0.13	0.030	0.00072	8.3	0.0013	0.0017	0.0010	< 0.001	6.7	0.000050	0.00070	0.0076	0.0000060	0.00013	0.0014	0.0030	
E1-5	Esker 1	Gravel with sand	1.4	0.00065	0.20	0.046	0.00099	7.7	0.0020	0.0023	0.00090	< 0.001	5.6	0.000010	0.0010	0.0093	< 0.000005	0.00013	0.0013	0.0030	
			MINIMUM	0.85	0.00050	0.10	0.010	0.00035	7.7	0.00060	0.00037	0.00090	<0.001	5.2	0.000010	0.00050	0.0045	< 0.000005	0.000093	0.00061	<0.001
			MAXIMUM	4.0	0.00093	0.86	0.046	0.0018	12	0.0020	0.0023	0.0015	<0.001	11	0.000050	0.0061	0.014	0.0000060	0.00020	0.0014	0.0070
			MEDIAN	1.4	0.00065	0.18	0.030	0.00099	9.1	0.0013	0.00087	0.0010	nc	5.7	0.000030	0.0010	0.0076	0.0000050	0.00013	0.0013	0.0030
			AVERAGE	1.8	0.00070	0.29	0.029	0.00099	9.3	0.0013	0.0012	0.0011	nc	6.8	0.000030	0.0019	0.0086	0.0000054	0.00014	0.0012	0.0032
			STANDARD DEVIATION	1.1	0.00018	0.29	0.011	0.00047	1.3	0.00044	0.00071	0.00021	nc	2.0	0.000013	0.0021	0.0032	0.00000049	0.000037	0.00028	0.0020
			75TH PERCENTILE	1.7	0.00088	0.20	0.035	0.0011	9.7	0.0013	0.0017	0.0010	nc	6.7	0.000030	0.0010	0.0093	0.0000060	0.00016	0.0013	0.0030
E2-1	Esker 2	Sand with gravel	1.0	0.00067	0.18	0.032	0.00048	11	0.0011	0.0017	0.00060	< 0.001	7.6	0.000020	0.0011	0.026	0.000012	0.00013	0.0010	0.0040	
E2-2	Esker 2	Sand with gravel	0.91	0.0011	0.20	0.030	0.00027	8.0	0.0013	0.0013	0.00060	< 0.001	8.5	0.000090	0.0015	0.013	0.000089	0.00033	0.0015	0.0030	
E2-3	Esker 2	Sand with gravel	2.1	0.00097	0.34	0.047	0.00039	13	0.0011	0.0014	0.00070	< 0.001	10	0.000090	0.0022	0.037	0.000014	0.00022	0.0014	0.0030	
E2-4	Esker 2	Sand and gravel	1.6	0.00080	0.18	0.032	0.00075	9.4	0.00090	0.0014	0.00070	< 0.001	7.6	0.000040	0.0012	0.030	0.000030	0.00020	0.0012	0.0030	
			MINIMUM	0.91	0.00067	0.18	0.030	0.00027	8.0	0.00090	0.0013	0.00060	<0.001	7.6	0.000020	0.0011	0.013	0.000012	0.00013	0.0010	0.0030
			MAXIMUM	2.1	0.0011	0.34	0.047	0.00075	13	0.0013	0.0017	0.00070	<0.001	10	0.000090	0.0022	0.037	0.000089	0.00033	0.0015	0.0040
			MEDIAN	1.3	0.00088	0.19	0.032	0.00044	10	0.0011	0.0014	0.00065	nc	8.0	0.000065	0.0014	0.028	0.000022	0.00021	0.0013	0.0030
			AVERAGE	1.4	0.00090	0.23	0.035	0.00047	11	0.0011	0.0014	0.00065	nc	8.5	0.000060	0.0015	0.026	0.000036	0.00022	0.0013	0.0033
			STANDARD DEVIATION	0.49	0.00018	0.067	0.0068	0.00018	2.0	0.00014	0.00013	0.000050	nc	1.1	0.000031	0.00043	0.0087	0.000031	0.000072	0.00020	0.00043
			75TH PERCENTILE	1.7	0.0010	0.24	0.036	0.00055	12	0.0012	0.0015	0.00070	nc	9.0	0.000090	0.0017	0.031	0.000045	0.00024	0.0014	0.0033
E3-1	Esker 3	Sand	0.31	0.00090	0.40	0.12	0.00033	9.6	0.0037	0.0013	0.00060	< 0.001	9.2	0.000030	0.00040	0.018	< 0.000005	0.000057	0.0022	0.0040	
E3-2	Esker 3	Sand	0.81	0.0011	0.49	0.069	0.00056	10	0.0046	0.0016	0.00050	< 0.001	7.3	0.000050	0.00060	0.014	0.0000060	0.000087	0.0021	0.0040	
E3-3	Esker 3	Sand with gravel	0.85	0.00058	0.19	0.032	0.00053	9.0	0.0016	0.00075	0.00060	< 0.001	6.3	0.000020	0.00040	0.0067	< 0.000005	0.00011	0.0012	0.0020	
E3-4	Esker 3	Sand	0.47	0.00084	0.41	0.060	0.00030	11	0.0029	0.0015	0.00060	< 0.001	8.1	0.000020	0.00080	0.016	0.0000070	0.000070	0.0017	0.0040	
E3-5	Esker 3	Sand	0.42	0.00083	0.33	0.063	0.00073	8.2	0.0045	0.0012	0.00060	< 0.001	7.2	0.000020	0.00050	0.013	0.0000080	0.000077	0.0018	0.0040	
			MINIMUM	0.31	0.00058	0.19	0.032	0.00030	8.2	0.0016	0.00075	0.00050	<0.001	6.3	0.000020	0.00040	0.0067	<0.000005	0.000057	0.0012	0.0020
			MAXIMUM	0.85	0.0011	0.49	0.12	0.00073	11	0.0046	0.0016	0.00060	<0.001	9.2	0.000050	0.00080	0.018	0.0000080	0.00011	0.0022	0.0040
			MEDIAN	0.47	0.00084	0.40	0.063	0.00053	9.6	0.0037	0.0013	0.00060	nc	7.3	0.000020	0.00050	0.014	0.0000060	0.000077	0.0018	0.0040
			AVERAGE	0.57	0.00084	0.36	0.068	0.00049	9.6	0.0035	0.0013	0.00058	nc	7.6	0.000028	0.00054	0.014	0.0000062	0.000079	0.0018	0.0036
			STANDARD DEVIATION	0.22	0.00016	0.098	0.027	0.00016	0.98	0.0011	0.00028	0.000040	nc	0.97	0.000012	0.00015	0.0039	0.0000012	0.000016	0.00034	0.00080
			75TH PERCENTILE	0.81	0.00090	0.41	0.069	0.00056	10	0.0045	0.0015	0.00060	nc	8.1	0.000030	0.00060	0.016	0.0000070	0.000087	0.0021	0.0040
E4-1	Esker 4	Sand with gravel	2.5	0.0012	2.4	0.023	0.0015	8.7	0.0087	0.00056	0.00070	< 0.001	5.4	0.000030	0.014	0.0038	0.000015	0.00013	0.0025	0.0030	
E4-2	Esker 4	Sand with gravel	1.1	0.00058	0.37	0.035	0.00029	9.5	0.0038	0.00046	0.00090	< 0.001	6.7	0.000050	0.00060	0.0096	0.000012	0.000052	0.0012	0.0030	
			MINIMUM	1.1	0.00058	0.37	0.023	0.00029	8.7	0.0038	0.00046	0.00070	<0.001	5.4	0.000030	0.00060	0.0038	0.000012	0.000052	0.0012	0.0030
			MAXIMUM	2.5	0.0012	2.4	0.035	0.0015	9.5	0.0087	0.00056	0.00090	<0.001	6.7	0.000050	0.014	0.0096	0.000015	0.00013	0.0025	0.0030
			MEDIAN	1.8	0.00090	1.4	0.029	0.00089	9.1	0.0063	0.00051	0.00080	nc	6.0	0.000040	0.0072	0.0067	0.000014	0.000090	0.0019	0.0030
			AVERAGE	1.8	0.00090	1.4	0.029	0.00089	9.1	0.0063	0.00051	0.00080	nc	6.0	0.000040	0.0072	0.0067	0.000014	0.000090	0.0019	0.0030
			STANDARD DEVIATION	0.72	0.00033	1.0	0.0058	0.00060	0.43	0.0025	0.000050	0.000100	nc	0.61	0.000010	0.0066	0.0029	0.0000015	0.000038	0.00063	0.0
			75TH PERCENTILE	2.2	0.0011	1.9	0.032	0.0012	9.3	0.0075	0.00054	0.00085	nc	6.3	0.000045	0.010	0.0081	0.000014	0.00011	0.0022	0.0030
E5-1	Esker 5	Sand with gravel	0.40	0.00039	0.18	0.031	0.00062	6.3	0.0018	0.00045	0.0010	< 0.001	6.2	0.000060	0.00050	0.012	0.0000060	0.00012	0.0019	0.0020	
E5-2	Esker 5	Sand	0.39	0.0006																	



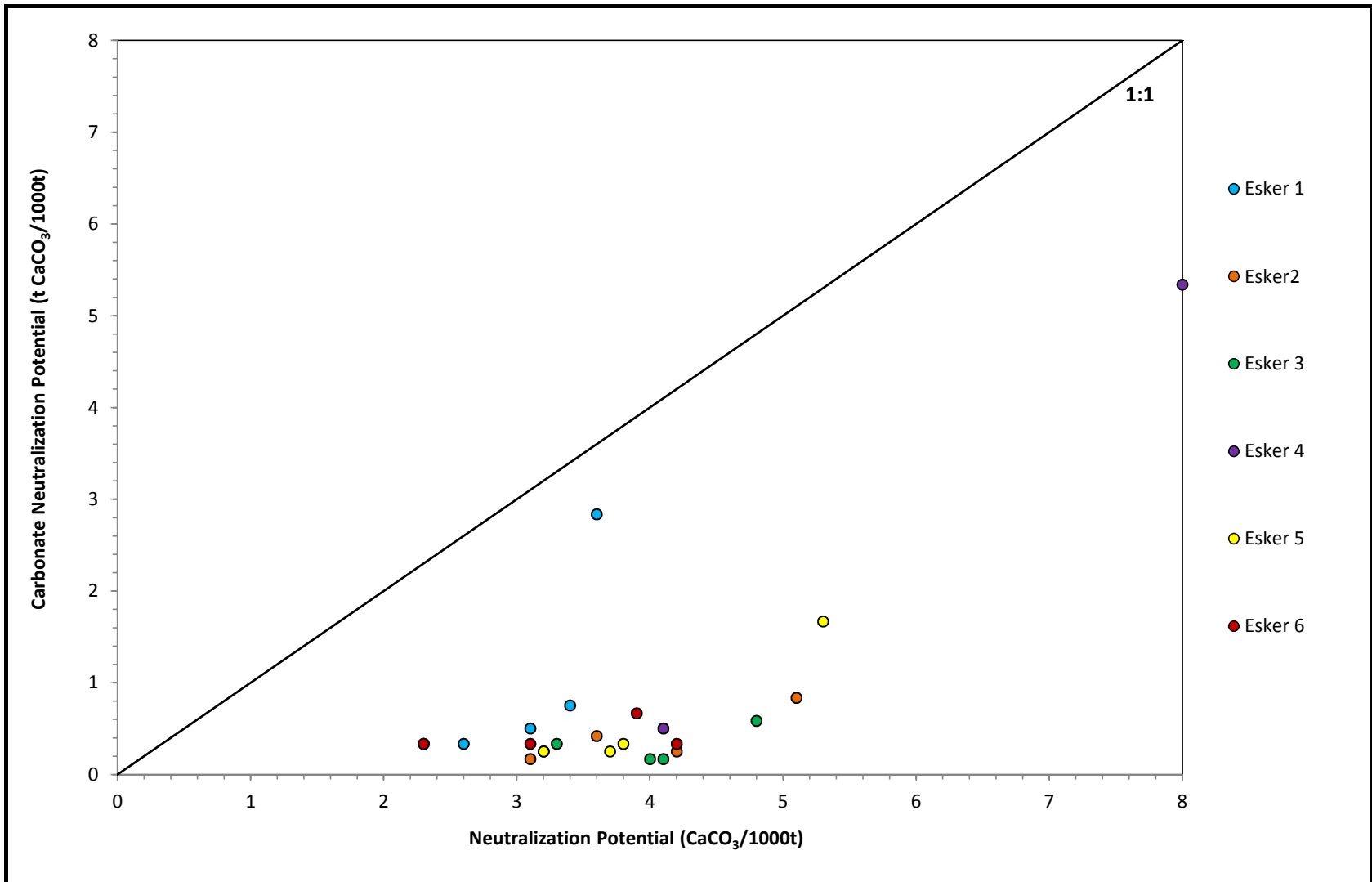
IVR Road
Agnico Eagle Mines Ltd.

Total Sulphur versus Sulphide Sulphur

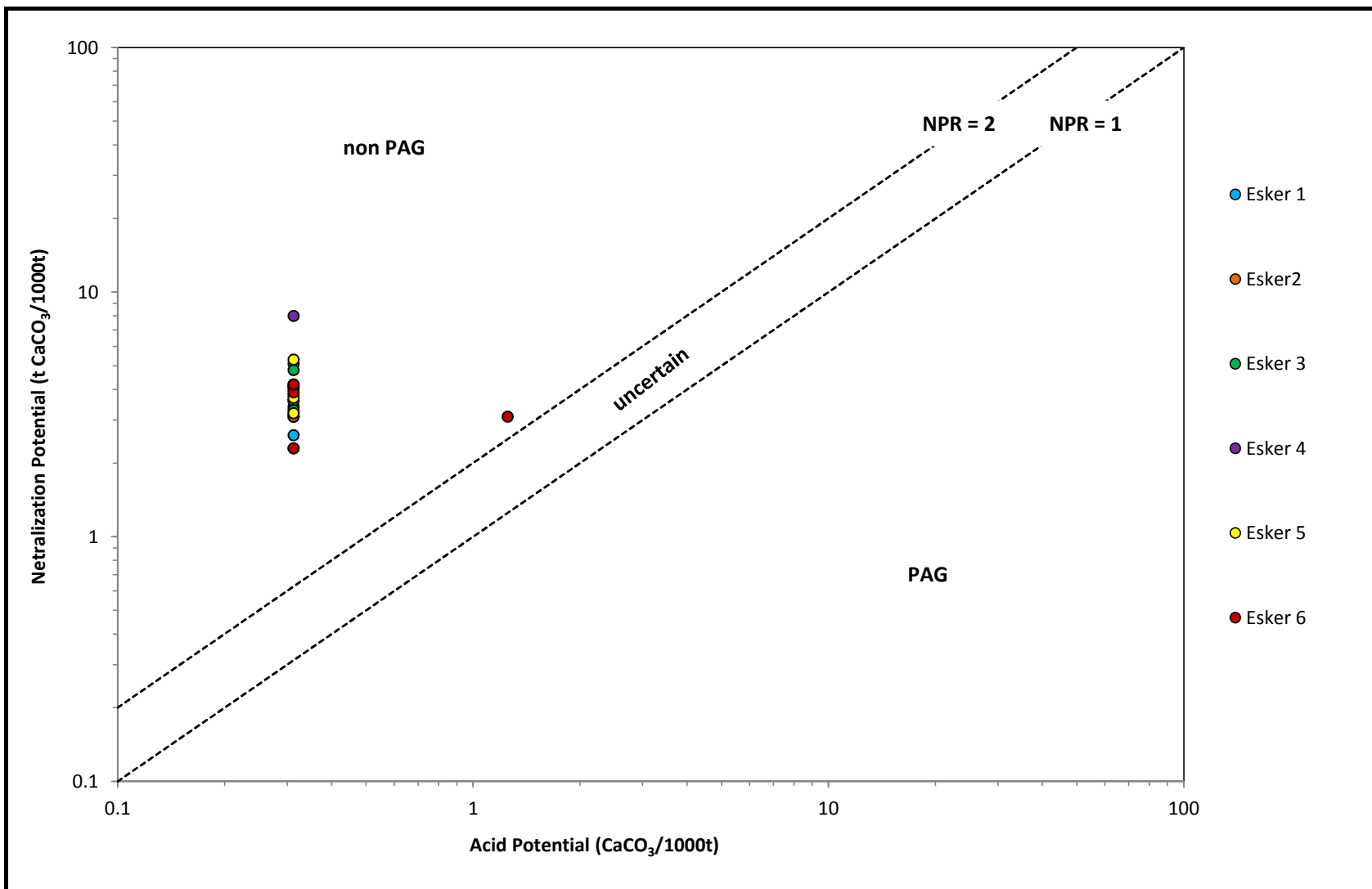
Esker Static Testing

Notes: Values < MDL are plotted as MDL

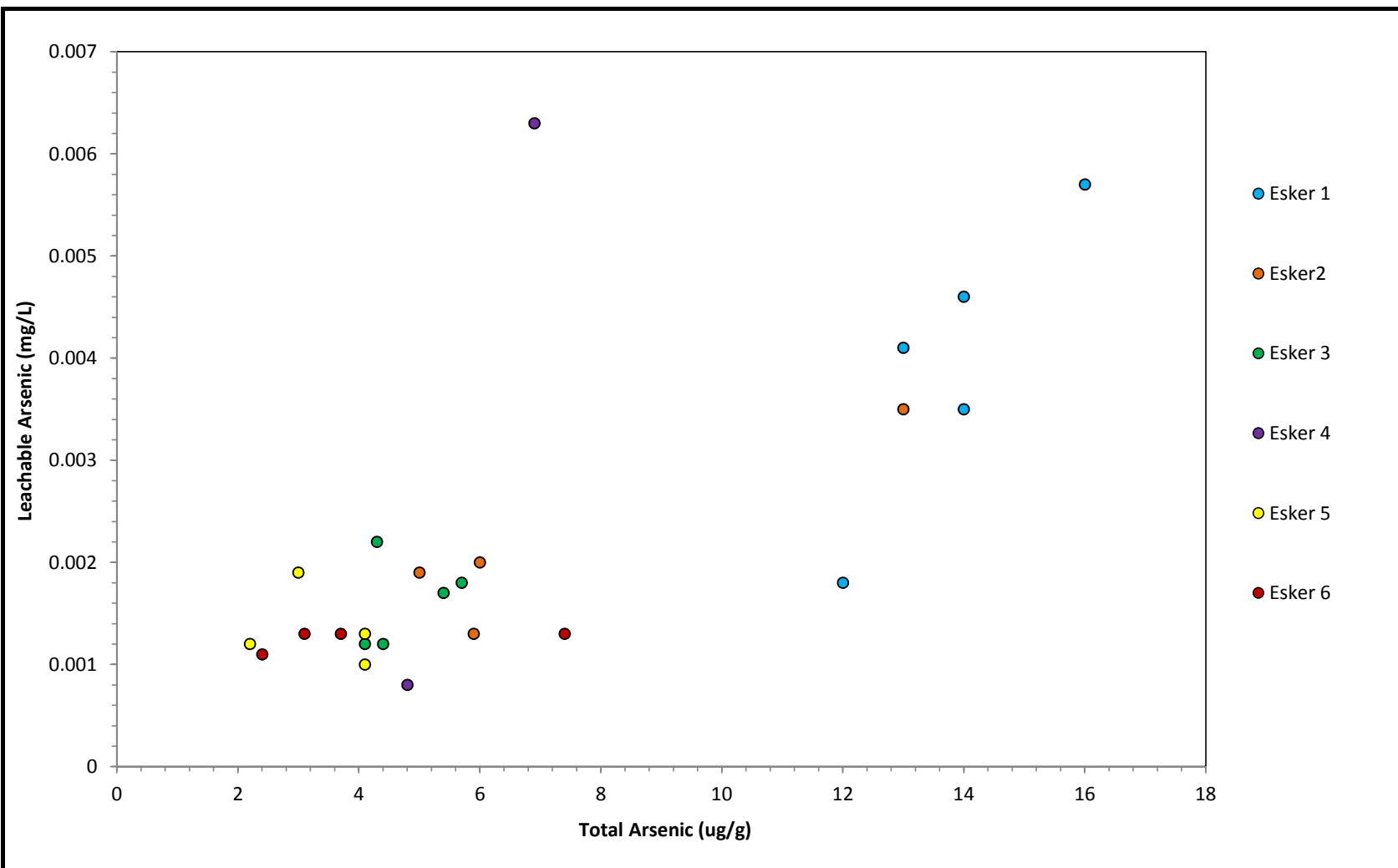
Prepared	NW	Date	Dec-14	Project N°	14-12623
Checked	JMC				
Reviewed	VJB			Figure	A-1



 IVR Road Agnico Eagle Mines Ltd.	Neutralization Potential versus Carbonate Neutralization Potential			
	Esker Static Testing			
	Prepared	NW	Date	Dec-14
	Checked	JMC		
Notes: Values < MDL are plotted as MDL	Reviewed	VJB		
			Figure	A-2



 IVR Road Agnico Eagle Mines Ltd.	Acid Potential versus Neutralization Potential			
	Esker Static Testing			
	Prepared	NW	Date	Dec-14
	Checked	JMC		
Notes: Values < MDL are plotted as MDL	Reviewed	VJB	Figure	A-3



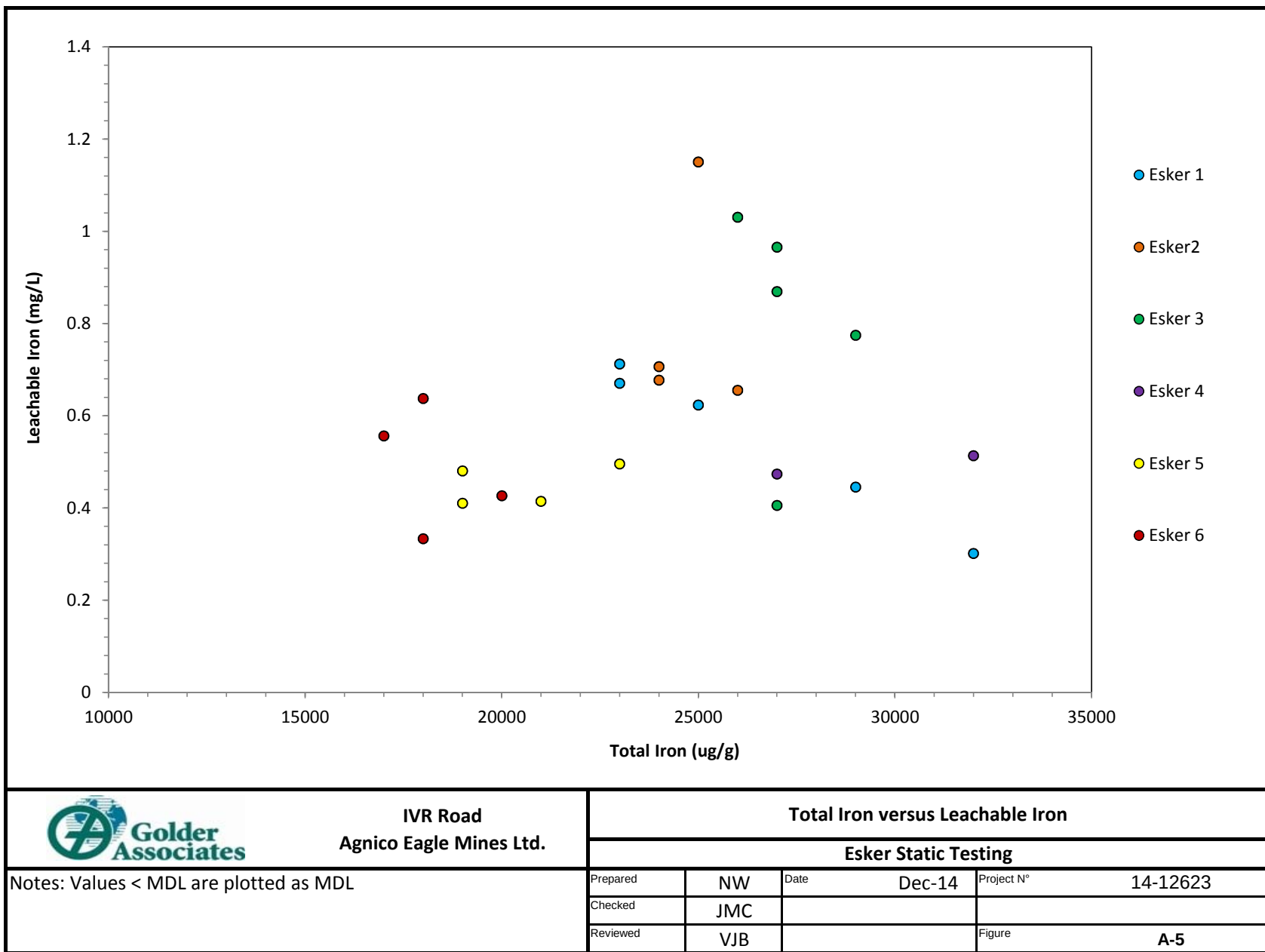
IVR Road
Agnico Eagle Mines Ltd.

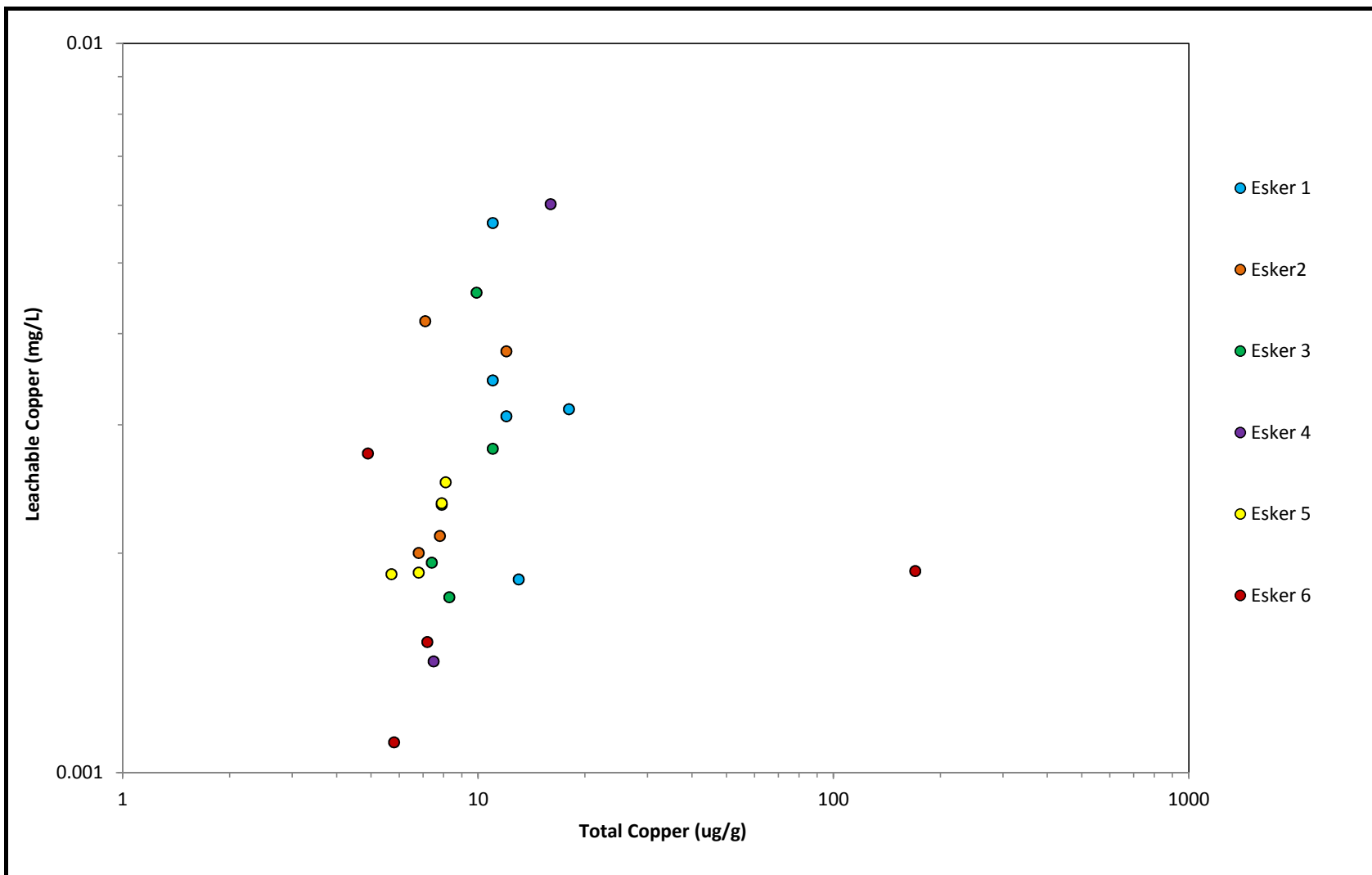
Total Arsenic versus Leachable Arsenic

Esker Static Testing

Notes: Values < MDL are plotted as MDL

Prepared	NW	Date	Dec-14	Project N°	14-12623
Checked	JMC				
Reviewed	VJB			Figure	A-4





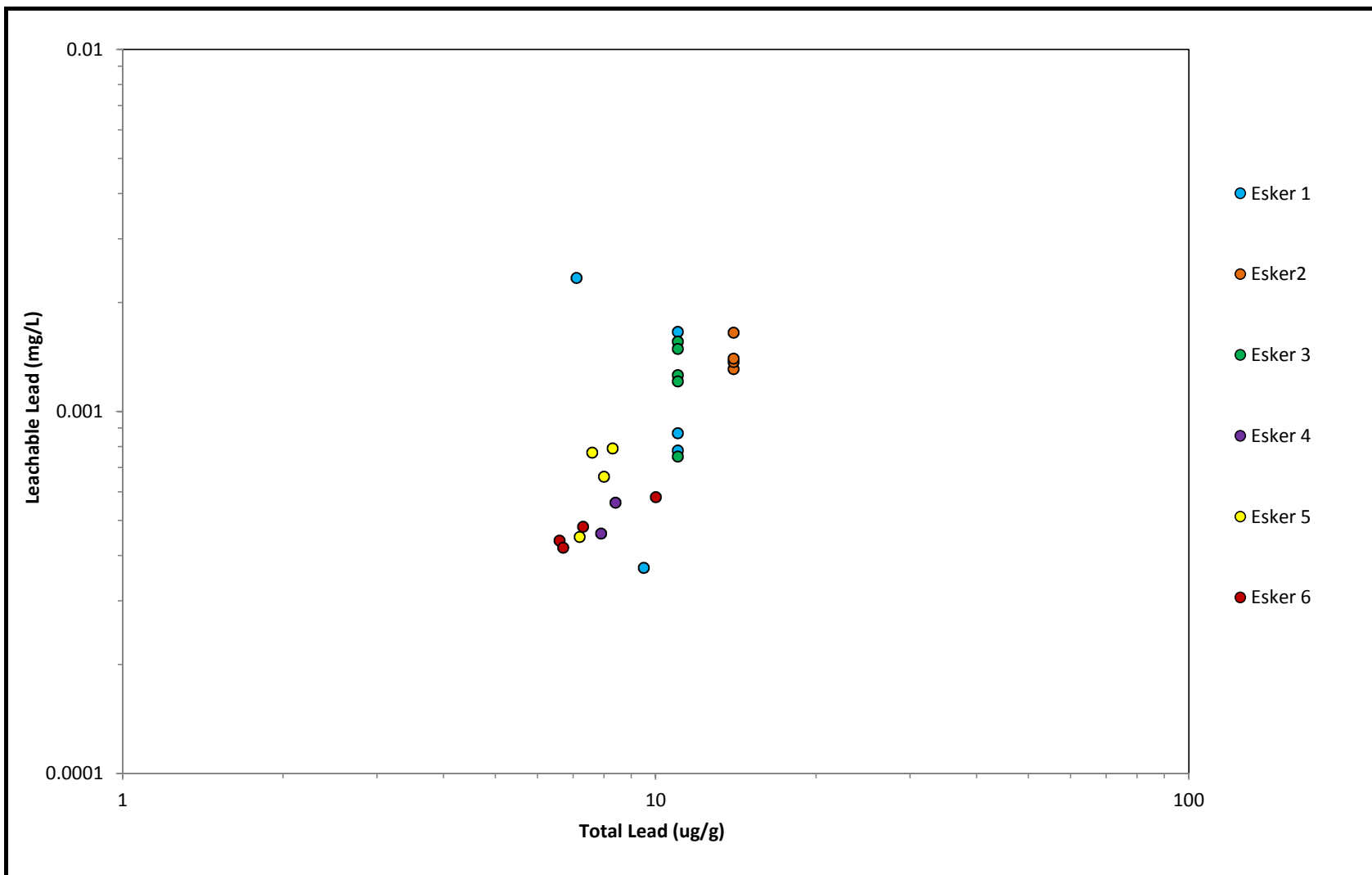
IVR Road
Agnico Eagle Mines Ltd.

Total Copper versus Leachable Copper

Esker Static Testing

Notes: Values < MDL are plotted as MDL

Prepared	NW	Date	Dec-14	Project N°	14-12623
Checked	JMC				
Reviewed	VJB			Figure	A-6



 IVR Road Agnico Eagle Mines Ltd.	Total Lead versus Leachable Lead			
	Esker Static Testing			
	Prepared	NW	Date	Dec-14
	Checked	JMC		
	Reviewed	VJB		
Notes: Values < MDL are plotted as MDL	Project N°		14-12623	
	Figure		A-7	

ATTACHMENT B

Quality Assurance / Quality Control Assessment

CCME (for the Protection of Freshwater Aquatic Life) ¹		6.5-9				0.000026	0.0001		0.005		1.5				0.00009			0.002	0.3					0.073		0.025	0.001		0.001					0.0008	0.015		
Sample ID	Location	Final pH	Alkalinity	Conductivity	SO4	Hg	Ag	Al	As	Ba	B	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	Pb	Sb	Se	Si	Sn	Sr	Ti	Tl	U	V	Zn
		units	mg/L CaCO3	uS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MDL ²		---	2	2	2	0.00001	0.000002	0.01	0.0002	0.00002	0.0002	0.000007	0.000007	0.02	0.000003	0.000004	0.00003	0.00002	0.002	0.002	0.000006	0.003	0.00001	0.00001	0.01	0.0001	0.00001	0.0002	0.001	0.02	0.00001	0.0002	0.00005	0.000005	0.000002	0.00001	0.001
E2-1	Esker 2	6.7	30	60	< 2	< 0.00001	0.000031	0.81	0.0013	0.0089	0.41	0.000027	< 0.000007	0.70	< 0.000003	0.00074	0.0019	0.0020	0.68	1.0	0.00067	0.18	0.032	0.00048	11	0.0011	0.0017	0.00060	< 0.001	7.6	0.000020	0.0011	0.026	0.000012	0.00013	0.0010	0.0040
E2-1-DUP	Esker 2	6.6	33	63	< 2	0.000010	0.000028	0.86	0.0020	0.0054	0.38	0.000026	0.000021	0.16	0.000043	0.00034	0.0019	0.0022	0.51	1.1	0.00046	0.12	0.015	0.00081	13	0.00070	0.00058	0.00040	< 0.001	7.0	0.000070	0.00070	0.021	0.0000080	0.00016	0.0010	0.0020
RPD ³		-	9.5	4.9	-	-	10	6	42	49	7	<MDL	-	126	-	75	2	11	28	6	38	37	71	51	12	44	96	<MDL	-	7	>MDL	>MDL	19	<MDL	19	0	>MDL
E2-2	Esker 2	6.2	26	51	< 2	< 0.00001	0.000029	0.57	0.0035	0.0067	0.43	0.000022	0.000011	0.97	< 0.000003	0.00099	0.0016	0.0038	0.66	0.91	0.0011	0.20	0.030	0.00027	8.0	0.0013	0.0013	0.00060	< 0.001	8.5	0.000090	0.0015	0.013	0.000089	0.00033	0.0015	0.0030
E2-2-DUP	Esker 2	6.0	31	68	< 2	0.000010	0.000033	0.73	0.0090	0.018	0.44	0.000080	0.00016	0.68	0.0000080	0.0018	0.0049	0.0064	0.88	1.6	0.00023	0.32	0.059	0.00044	14	0.0032	0.00028	0.00040	< 0.001	7.4	0.00012	0.0015	0.050	0.000024	0.00046	0.0025	0.0060
RPD ³		-	18	29	-	-	13	25	88	91	2	>MDL	>MDL	35	-	57	102	51	29	55	66	46	67	48	51	84	72	<MDL	-	13	29	0	117	>MDL	34	49	>MDL
E2-3	Esker 2	6.3	37	72	< 2	< 0.00001	0.000020	1.2	0.0019	0.012	0.49	0.000032	0.000014	0.82	0.000040	0.00076	0.0023	0.0042	1.2	2.1	0.00097	0.34	0.047	0.00039	13	0.0011	0.0014	0.00070	< 0.001	10	0.000090	0.0022	0.037	0.000014	0.00022	0.0014	0.0030
E2-3-DUP	Esker 2	6.2	32	72	4.4	< 0.000010	0.000034	0.50	0.0020	0.0041	0.32	0.000020	0.000029	0.12	0.0000080	0.00038	0.0016	0.0051	0.49	1.6	0.00035	0.076	0.021	0.00053	12	0.0010	0.00066	0.00060	< 0.001	6.1	0.000070	0.00090	0.019	0.0000060	0.00016	0.00098	0.016
RPD ³		-	14	0	-	-	52	84	5	100	42	>MDL	>MDL	149	>MDL	66	39	20	80	31	95	127	75	30	10	10	70	<MDL	-	52	25	>MDL	64	>MDL	30	34	>MDL
E2-4	Esker 2	6.8	25	56	< 2	< 0.00001	0.000045	0.98	0.0020	0.011	0.38	0.000039	< 0.000007	0.53	0.000028	0.00064	0.0018	0.0021	0.71	1.6	0.00080	0.18	0.032	0.00075	9.4	0.00090	0.0014	0.00070	< 0.001	7.6	0.000040	0.0012	0.030	0.000030	0.00020	0.0012	0.0030
E2-4-DUP	Esker 2	6.7	32	71	< 2	< 0.00001	0.000046	0.93	0.0021	0.0084	0.38	0.000036	0.000032	0.30	0.0000080	0.00044	0.0017	0.0022	0.63	2.9	0.00062	0.16	0.022	0.00082	13	0.00080	0.00096	0.00040	< 0.001	7.5	0.000060	0.0011	0.026	0.000013	0.00020	0.0011	0.0060
RPD ³		-	25	24	-	-	2	5	5	23	0	8	-	55	>MDL	37	6	3	12	60	26	12	38	9	34	12	37	>MDL	-	1	>MDL	9	14	>MDL	0	9	>MDL
E3-1	Esker 3	6.7	24	46	< 2	< 0.00001	0.000019	0.92	0.0017	0.0069	0.43	0.000016	< 0.000007	0.25	0.000010	0.0019	0.0097	0.0023	1.0	0.31	0.00090	0.40	0.12	0.00033	9.6	0.0037	0.0013	0.00060	< 0.001	9.2	0.000030	0.00040	0.018	< 0.000005	0.000057	0.0022	0.0040
E3-1-DUP	Esker 3	6.7	24	42	< 2	< 0.00001	0.000031	0.97	0.0029	0.0029	0.26	0.000020	0.000018	0.050	< 0.000003	0.00083	0.0083	0.0022	0.65	0.21	0.00040	0.34	0.047	0.00060	5.6	0.0031	0.00058	0.00050	< 0.001	6.4	0.000060	0.00050	0.014	< 0.000005	0.000066	0.0030	0.0020
RPD ³		-	0	9.1	-	-	48	5	52	82	49	<MDL	-	>MDL	-	78	16	6	45	40	78	16	84	58	52	18	74	<MDL	-	36	>MDL	<MDL	30	-	15	31	>MDL
E3-4	Esker 3	6.8	29	63	< 2	< 0.00001	0.000049	0.88	0.0012	0.0093	0.41	0.000020	< 0.000007	0.46	< 0.000003	0.0013	0.0062	0.0019	0.87	0.47	0.00084	0.41	0.060	0.00030	11	0.0029	0.0015	0.00060	< 0.001	8.1	0.000020	0.00080	0.016	0.0000070	0.000070	0.0017	0.0040
E3-4-DUP	Esker 3	6.8	34	60	< 2	< 0.00001	0.000065	1.7	0.0018	0.0030	0.34	0.000022	0.000017	0.46	< 0.000003	0.00051	0.0054	0.0021	0.49	0.37	0.00035	0.25	0.025	0.00052	9.8	0.0021	0.00042	0.00040	< 0.001	7.1	0.000040	0.0062	0.012	< 0.000005	0.000074	0.0017	0.0040
RPD ³		-	16	4.9	-	-	28	61	40	103	19	<MDL	-	0	-	90	13	7	56	23	83	48	83	54	12	32	112	<MDL	-	13	>MDL	>MDL	26	-	6	2	<MDL
E3-5	Esker 3	7.6	23	50	< 2	< 0.00001	0.000045	0.66	0.0018	0.010	0.37	0.000025	< 0.000007	0.36	0.0000040	0.0016	0.0072	0.0028	0.77	0.42	0.00083	0.33	0.063	0.00073	8.2	0.0045	0.0012	0.00060	< 0.001	7.2	0.000020	0.00050	0.013	0.0000080	0.000077	0.0018	0.0040
E3-5-DUP	Esker 3	7.5	28	65	< 2	< 0.00001	0.000063	1.1	0.0031	0.0033	0.30	0.000018	0.000013	0.050	< 0.000003	0.00054	0.0051	0.0023	0.41	0.78	0.00033	0.27	0.018	0.0011	11	0.0030	0.00038	0.00040	< 0.001	5.8	0.000050	0.00040	0.0078	< 0.000005	0.000088	0.0021	0.0020
RPD ³		-	20	26	-	-	33	53	53	101	21	<MDL	-	>MDL	-	97	33	18	61	61	86	20	111	40	30	40	104	<MDL	-	22	>MDL	<MDL	49	-	13	18	>MDL
E4-2	Esker 4	6.8	27	56	< 2	< 0.00001	0.000071	0.56	0.00080	0.0055	0.36	0.0000090	< 0.000007	0.42	< 0.000003	0.0011	0.0055	0.0014	0.47	1.1	0.00058	0.37	0.035	0.00029	9.5	0.0038	0.00046	0.00090	< 0.001	6.7	0.000050	0.00060	0.0096	0.000012	0.000052	0.0012	0.0030
E4-2-DUP	Esker 4	6.7	34	77	< 2	0.000010	0.000094	1.1	0.0019	0.0034	0.30	0.000016	0.000014	0.070	0.000019	0.00068	0.0070	0.0017	0.59	1.3	0.00026	0.23	0.023	0.00041	9.5	0.0037	0.00043	0.00050	< 0.001	6.0	0.000080	0.00040	0.014	< 0.000005	0.000075	0.0019	0.0020
RPD ³		-	23	32	-	-	28	67	>MDL	47	15	<MDL	-	>MDL	-	46	25	18	23	18	76	47	40	34	0	3	7	>MDL	-	10	46	<MDL	39	-	36	42	<MDL
E5-2	Esker 5	6.6	26	52	< 2	< 0.00001	0.000034	0.73	0.0010	0.0068	0.43	0.000028	< 0.000007	0.15	< 0.000003	0.0013	0.0047	0.0023	0.50	0.39	0.00065	0.17	0.052	0.00018	10.0	0.0022	0.00079	0.00070	< 0.001	7.3	0.000030	0.00040	0.014	< 0.000005	0.000081	0.0011	0.0020
E5-2-DUP	Esker 5	6.5	30	62	< 2	< 0.00001	0.000025	0.72	0.0013	0.0027	0.40	0.000018	0.000012	0.080	< 0.000003	0.00036	0.0029	0.0018	0.29	0.68	0.00027	0.12	0.013	0.00022	14	0.0012	0.00026	0.00030	< 0.001	6.4	0.000070	0.00030	0.0084	< 0.000005	0.000067	0.00083	0.0010
RPD ³		-	14	18	-	-	31	1	26	87	6	>MDL	-	>MDL	-	115	48	26	53	55	83	36	117	20	32	59	101	>MDL	-	13	>MDL	<MDL	47	-	19	26	<MDL
E5-4	Esker 5	7.3	27	58	< 2	< 0.00001	0.000039	0.59	0.0012	0.0077	0.40	0.000021	< 0.000007	0.25	0.000015	0.00087	0.0033	0.0019	0.41	1.1	0.00085	0.20	0.034	0.00065	9.8	0.0024	0.00066	0.00080	< 0.001	7.3	0.000020	0.00060	0.0081	< 0.000005	0.000081	0.0011	0.0020

ATTACHMENT C

SGS Laboratory Certificates of Analysis



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22-October-2014

Date Rec. : 06 October 2014

LR Report: CA12161-OCT14

Reference: OP-408779

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %
5: E1-1	Sep-14	75.3	11.0	5.34	1.91	0.84	1.83	2.12	0.36	0.11	0.04	0.03	< 0.01	2.20	101.0
6: E1-2	Sep-14	75.2	12.0	4.70	1.66	0.52	1.97	2.58	0.39	0.11	0.03	0.02	0.01	2.14	101.3
7: E1-3	Sep-14	76.5	11.4	3.84	1.33	0.45	1.71	2.68	0.36	0.07	0.02	0.03	< 0.01	2.84	101.2
8: E1-4	Sep-14	78.4	10.5	4.22	1.47	0.47	1.57	2.17	0.32	0.08	0.02	0.02	< 0.01	2.17	101.4
9: E1-5	Sep-14	78.8	10.1	3.95	1.45	0.48	1.60	2.23	0.34	0.08	0.03	0.02	0.02	1.93	101.0
10: E2-1	Sep-14	73.1	12.6	4.19	1.18	1.44	2.86	3.34	0.41	0.11	0.05	0.02	< 0.01	1.72	101.1
11: E2-2	Sep-14	74.0	12.0	4.27	1.29	1.09	2.37	3.17	0.40	0.12	0.03	0.02	0.01	2.09	100.8
12: E2-3	Sep-14	72.8	12.7	4.40	1.29	1.25	2.92	3.31	0.41	0.13	0.04	0.03	< 0.01	2.00	101.2
13: E2-4	Sep-14	74.9	12.0	3.95	0.99	1.14	2.80	3.18	0.37	0.10	0.03	0.03	< 0.01	1.57	101.0
14: E3-1	Sep-14	70.6	13.2	4.31	2.91	1.07	2.89	3.20	0.34	0.10	0.06	0.04	0.01	2.40	101.1
15: E3-2	Sep-14	70.4	13.1	4.68	3.17	1.13	2.85	2.99	0.35	0.10	0.04	0.04	< 0.01	2.40	101.3
16: E3-3	Sep-14	70.4	12.9	4.46	2.95	1.09	3.10	2.73	0.35	0.09	0.06	0.03	< 0.01	2.37	100.6
17: E3-4	Sep-14	70.4	13.2	4.61	2.91	1.17	2.93	2.89	0.36	0.09	0.05	0.03	0.01	2.67	101.3
18: E3-5	Sep-14	68.8	13.3	4.86	3.38	1.12	2.76	3.03	0.37	0.10	0.05	0.04	< 0.01	2.50	100.4
19: E4-1	Sep-14	67.3	12.2	5.13	5.97	1.65	2.62	2.25	0.35	0.09	0.07	0.08	< 0.01	3.28	101.0
20: E4-2	Sep-14	70.6	12.3	4.64	3.62	1.20	2.81	2.46	0.38	0.09	0.05	0.05	< 0.01	2.96	101.2
21: E5-1	Sep-14	75.4	11.8	3.21	1.91	0.74	2.70	2.85	0.29	0.08	0.03	0.03	< 0.01	2.07	101.0
22: E5-2	Sep-14	73.3	12.4	3.73	2.43	0.81	2.56	3.01	0.30	0.08	0.04	0.03	< 0.01	2.53	101.2
23: E5-3	Sep-14	72.7	12.3	3.56	2.27	1.08	2.86	3.00	0.32	0.09	0.04	0.04	< 0.01	2.13	100.3



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LR Report :

CA12161-OCT14

Sample ID	Sample Date & Time	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %
24: E5-4	Sep-14	73.7	11.6	3.17	1.76	0.88	2.76	2.98	0.29	0.08	0.03	0.03	0.01	1.86	99.2
25: E6-1	Sep-14	75.9	12.1	3.06	1.35	0.84	2.71	3.31	0.25	0.07	0.02	0.03	< 0.01	1.74	101.4
26: E6-2	Sep-14	75.0	12.3	3.01	1.39	0.88	2.58	3.24	0.29	0.09	0.03	0.02	< 0.01	2.28	101.1
27: E6-3	Sep-14	76.1	11.4	3.45	1.96	0.90	2.41	2.88	0.30	0.09	0.03	0.04	< 0.01	1.96	101.5
28: E6-4	Sep-14	75.8	11.4	2.92	1.63	0.92	2.45	2.94	0.28	0.07	0.03	0.03	< 0.01	2.29	100.8

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical



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29-October-2014

Date Rec. : 06 October 2014

LR Report: CA12162-OCT14

Reference: OP-408779

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: E1-1	6: E1-2	7: E1-3	8: E1-4	9: E1-5	10: E2-1	11: E2-2	12: E2-3	13: E2-4	14: E3-1	15: E3-2
Sample Date & Time			Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14
Mercury [µg/g]	23-Oct-14	08:31	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Silver [µg/g]	28-Oct-14	15:25	0.15	0.23	0.15	0.13	< 0.01	0.02	0.17	0.18	0.18	0.09	0.13
Aluminum [µg/g]	28-Oct-14	12:40	44000	48000	39000	40000	21000	44000	48000	49000	48000	50000	48000
Arsenic [µg/g]	28-Oct-14	15:24	12	14	14	16	13	5.9	13	5.0	6.0	5.4	4.3
Barium [µg/g]	28-Oct-14	15:24	450	510	510	400	170	520	660	660	640	650	610
Beryllium [µg/g]	28-Oct-14	15:24	1.0	1.1	1.2	1.1	0.50	1.4	1.6	1.7	1.8	1.5	1.5
Bismuth [µg/g]	28-Oct-14	15:24	0.17	0.14	0.19	0.14	0.14	0.15	0.36	0.17	0.18	< 0.09	< 0.09
Calcium [µg/g]	28-Oct-14	12:40	5200	3300	2500	3000	2000	8100	6800	7300	7000	6300	6500
Cadmium [µg/g]	28-Oct-14	15:24	0.17	0.19	0.18	0.15	0.07	0.14	0.21	0.23	0.21	0.16	0.16
Cobalt [µg/g]	28-Oct-14	15:24	11	10	8.3	8.8	9.1	5.7	7.4	5.4	4.8	12	13
Chromium [µg/g]	28-Oct-14	15:24	80	88	81	70	44	24	60	50	51	120	110
Copper [µg/g]	28-Oct-14	15:24	13	18	11	11	12	6.8	12	7.1	7.8	7.9	9.9
Iron [µg/g]	28-Oct-14	12:40	32000	29000	23000	25000	23000	24000	26000	25000	24000	26000	27000
Potassium [µg/g]	28-Oct-14	12:40	17000	21000	21000	17000	5600	20000	26000	25000	26000	26000	24000
Lithium [µg/g]	28-Oct-14	15:25	19	17	17	17	14	13	15	13	14	18	18
Magnesium [µg/g]	28-Oct-14	12:40	9400	8400	6500	7100	6500	5400	6200	5600	4600	15000	16000
Manganese [µg/g]	28-Oct-14	15:25	400	350	300	310	310	340	330	370	320	500	430



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LR Report :

CA12162-OCT14

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: E1-1	6: E1-2	7: E1-3	8: E1-4	9: E1-5	10: E2-1	11: E2-2	12: E2-3	13: E2-4	14: E3-1	15: E3-2
Molybdenum [µg/g]	28-Oct-14	15:25	1.1	0.8	1.0	0.7	1.0	0.7	0.8	0.7	0.7	0.5	0.4
Sodium [µg/g]	28-Oct-14	12:39	12000	13000	12000	11000	510	12000	16000	18000	19000	19000	19000
Nickel [µg/g]	28-Oct-14	15:25	48	42	32	39	33	17	30	22	13	89	95
Lead [µg/g]	28-Oct-14	15:25	9.5	11	11	11	7.1	14	14	14	14	11	11
Antimony [µg/g]	28-Oct-14	15:25	< 0.8	2.3	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Selenium [µg/g]	28-Oct-14	15:25	< 0.7	< 0.7	1.1	0.9	1.4	1.3	1.0	1.6	1.1	0.9	1.3
Tin [µg/g]	28-Oct-14	15:25	0.7	0.9	0.9	0.7	< 0.5	1.3	1.2	1.5	1.5	0.9	0.8
Strontium [µg/g]	28-Oct-14	15:25	120	110	88	94	32	130	150	140	130	160	160
Titanium [µg/g]	28-Oct-14	15:25	890	900	840	660	420	1400	1400	1600	1500	1200	1200
Thallium [µg/g]	28-Oct-14	15:25	0.37	0.42	0.48	0.38	0.16	0.42	0.50	0.50	0.49	0.41	0.40
Uranium [µg/g]	28-Oct-14	15:25	2.0	2.2	2.0	1.8	1.7	2.5	2.4	2.5	2.6	1.3	1.4
Vanadium [µg/g]	28-Oct-14	15:25	52	52	45	44	30	29	37	29	26	42	45
Yttrium [µg/g]	28-Oct-14	15:25	6.4	7.2	5.6	5.5	7.5	15	9.8	11	12	5.5	6.1
Zinc [µg/g]	28-Oct-14	15:25	46	43	40	37	35	44	40	44	40	45	46

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29-October-2014

Date Rec. : 06 October 2014

LR Report: CA12162-OCT14

Reference: OP-408779

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	16: E3-3	17: E3-4	18: E3-5	19: E4-1	20: E4-2	21: E5-1	22: E5-2	23: E5-3	24: E5-4	25: E6-1	26: E6-2	27: E6-3	28: E6-4
Sample Date & Time	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14
Mercury [µg/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Silver [µg/g]	0.12	0.10	0.14	0.11	0.13	0.20	0.12	0.13	0.11	0.11	0.08	0.11	0.08
Aluminum [µg/g]	49000	51000	49000	53000	46000	46000	48000	48000	47000	45000	49000	44000	45000
Arsenic [µg/g]	4.1	4.4	5.7	6.9	4.8	3.0	4.1	4.1	2.2	7.4	2.4	3.7	3.1
Barium [µg/g]	570	590	640	490	510	540	560	550	560	550	560	510	540
Beryllium [µg/g]	1.4	1.4	1.5	1.1	1.5	1.3	1.3	1.4	1.5	1.4	1.4	1.4	1.2
Bismuth [µg/g]	< 0.09	< 0.09	0.11	0.16	0.12	0.17	0.14	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	0.47
Calcium [µg/g]	6500	6700	6500	11000	6600	4300	4800	6400	5100	4600	5200	5200	5400
Cadmium [µg/g]	0.17	0.18	0.18	0.16	0.19	0.16	0.16	0.16	0.17	0.15	0.14	0.15	0.13
Cobalt [µg/g]	11	12	14	21	14	7.1	9.9	8.7	6.5	6.5	6.0	8.3	6.2
Chromium [µg/g]	100	110	130	250	160	83	100	94	80	70	66	80	86
Copper [µg/g]	8.3	7.4	11	16	7.5	6.8	7.9	8.1	5.7	5.8	170	7.2	4.9
Iron [µg/g]	27000	27000	29000	32000	27000	19000	23000	21000	19000	18000	18000	20000	17000
Potassium [µg/g]	22000	23000	24000	18000	19000	23000	25000	24000	24000	26000	26000	22000	23000
Lithium [µg/g]	18	17	20	18	15	14	15	15	13	13	15	16	15
Magnesium [µg/g]	15000	15000	17000	31000	19000	9400	12000	12000	8900	6300	6700	9800	7600
Manganese [µg/g]	430	440	470	570	460	320	370	360	320	320	310	310	300



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CA12162-OCT14

Analysis	16: E3-3	17: E3-4	18: E3-5	19: E4-1	20: E4-2	21: E5-1	22: E5-2	23: E5-3	24: E5-4	25: E6-1	26: E6-2	27: E6-3	28: E6-4
Molybdenum [µg/g]	0.5	1.1	1.5	0.5	0.5	0.5	0.7	0.6	0.6	0.5	0.4	0.5	0.4
Sodium [µg/g]	21000	19000	18000	17000	19000	18000	17000	19000	18000	17000	17000	15000	15000
Nickel [µg/g]	82	77	110	240	130	50	79	63	45	31	32	56	44
Lead [µg/g]	11	11	11	8.4	7.9	7.2	8.3	7.6	8.0	10	6.6	7.3	6.7
Antimony [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	1.2	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Selenium [µg/g]	1.1	1.1	1.6	1.3	1.7	1.5	0.9	1.6	1.7	1.6	1.9	2.4	1.7
Tin [µg/g]	0.8	0.9	0.8	0.7	0.9	0.9	0.8	0.9	0.8	1.0	1.1	0.8	0.7
Strontium [µg/g]	160	160	160	150	120	120	120	120	140	110	140	120	110
Titanium [µg/g]	1300	1300	1300	1200	1200	1000	1000	1200	1200	1000	1200	1300	1100
Thallium [µg/g]	0.35	0.36	0.39	0.28	0.34	0.33	0.33	0.32	0.31	0.37	0.29	0.29	0.27
Uranium [µg/g]	1.4	1.4	1.4	1.3	1.4	1.5	1.5	1.8	1.6	2.8	1.4	1.7	1.3
Vanadium [µg/g]	42	43	47	53	45	27	33	33	28	24	27	29	25
Yttrium [µg/g]	6.3	6.0	6.2	7.0	6.3	6.1	5.8	7.5	6.6	6.5	6.5	7.2	5.4
Zinc [µg/g]	46	47	50	46	45	34	36	35	34	33	35	34	31

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ABA - Modified Sobek

15-October-2014

Date Rec. : 06 October 2014

LR Report: CA12164-OCT14

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CERTIFICATE OF ANALYSIS

Final Report

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Sample Date & Time			Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14
Paste pH	10-Oct-14	16:23	7.81	7.63	6.71	7.46	7.64	7.28	7.10	6.87	7.35	7.26	8.12
Fizz Rate [---]	10-Oct-14	16:23	1	1	1	1	1	1	1	1	1	1	1
Sample weight [g]	10-Oct-14	16:23	1.96	2.11	2.00	2.13	1.91	2.14	2.00	2.12	1.92	2.11	2.12
HCl added [mL]	10-Oct-14	16:23	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
HCl [Normality]	10-Oct-14	16:23	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	10-Oct-14	16:23	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH to [pH=8.3 mL]	10-Oct-14	16:23	18.59	18.57	18.95	19.01	18.82	18.67	18.31	18.46	18.04	18.64	18.26
Final pH	10-Oct-14	16:23	1.03	1.11	1.05	1.09	1.06	1.08	1.05	1.21	1.10	1.15	1.14
NP [t CaCO3/1000 t]	10-Oct-14	16:23	3.6	3.4	2.6	2.3	3.1	3.1	4.2	3.6	5.1	3.2	4.1
AP [t CaCO3/1000 t]	---	---	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Net NP [t CaCO3/1000 t]	---	---	3.29	3.09	2.29	1.99	2.79	2.79	3.89	3.29	4.79	2.89	3.79
NP/AP [ratio]	---	---	11.6	11.0	8.39	7.42	9.92	10.0	13.5	11.6	16.5	10.3	13.2
Sulphur (total) [%]	14-Oct-14	12:11	0.007	< 0.005	0.006	< 0.005	0.007	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acid Leachable SO4-S [%]	---	---	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Sulphide [%]	14-Oct-14	12:11	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Carbon (total) [%]	09-Oct-14	14:45	0.156	0.072	0.459	0.136	0.072	0.177	0.307	0.260	0.196	0.131	0.094
Carbonate [%]	09-Oct-14	14:45	0.170	0.045	0.020	0.020	0.030	0.010	0.015	0.025	0.050	0.015	0.010



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CA12164-OCT14

*NP (Neutralization Potential)

= $50 \times (N \text{ of HCL} \times \text{Total HCL added} - N \text{ NaOH} \times \text{NaOH added})$

Weight of Sample

*AP (Acid Potential) = % Sulphide Sulphur $\times$ 31.25

*Net NP (Net Neutralization Potential) = NP-AP

NP/AP Ratio = NP/AP

*Results expressed as tonnes CaCO₃ equivalent/1000 tonnes of material

Samples with a % Sulphide value of <0.01 will be calculated using a 0.01 value.

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Project Specialist

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Sample Date & Time	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14
Paste pH	7.70	7.42	7.93	8.91	7.55	7.42	7.13	7.78	7.67	7.38	7.05	7.77	6.66
Fizz Rate [---]	1	1	2	1	1	1	1	1	1	1	1	1	1
Sample weight [g]	1.97	2.06	2.02	2.05	2.02	2.08	2.02	2.01	1.96	2.00	2.08	2.01	2.04
HCl added [mL]	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH to [pH=8.3 mL]	18.11	18.65	18.40	16.70	18.36	18.67	18.46	17.88	18.54	18.77	18.38	19.07	18.30
Final pH	1.06	1.15	1.18	1.22	1.10	1.03	1.01	1.10	1.10	1.05	1.04	1.00	0.98
NP [t CaCO ₃ /1000 t]	4.8	3.3	4.0	8.0	4.1	3.2	3.8	5.3	3.7	3.1	3.9	2.3	4.2
AP [t CaCO ₃ /1000 t]	0.62	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	1.25	0.31	0.31	0.31
Net NP [t CaCO ₃ /1000 t]	4.18	2.99	3.69	7.69	3.79	2.89	3.49	4.99	3.39	1.85	3.59	1.99	3.89
NP/AP [ratio]	7.68	10.6	12.9	25.8	13.2	10.3	12.3	17.1	11.9	2.48	12.6	7.42	13.5
Sulphur (total) [%]	0.024	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.068	< 0.005	0.005	< 0.005
Acid Leachable SO ₄ -S [%]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.03	< 0.01	< 0.01	< 0.01
Sulphide [%]	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.04	< 0.01	< 0.01	< 0.01
Carbon (total) [%]	0.193	0.248	0.095	0.203	0.347	0.153	0.209	0.116	0.129	0.094	0.263	0.090	0.341
Carbonate [%]	0.035	0.020	0.010	0.320	0.030	0.015	0.020	0.100	0.015	0.020	0.040	0.020	0.020



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CA12164-OCT14

*NP (Neutralization Potential)

= $50 \times (N \text{ of HCL} \times \text{Total HCL added} - N \text{ NaOH} \times \text{NaOH added})$

Weight of Sample

*AP (Acid Potential) = % Sulphide Sulphur $\times$ 31.25

*Net NP (Net Neutralization Potential) = NP-AP

NP/AP Ratio = NP/AP

*Results expressed as tonnes CaCO₃ equivalent/1000 tonnes of material

Samples with a % Sulphide value of <0.01 will be calculated using a 0.01 value.

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SFE-24hr 4:1 L/S ratio

28-October-2014

Date Rec. : 06 October 2014
LR Report: CA12165-OCT14
Reference: OP-408779

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CERTIFICATE OF ANALYSIS

Final Report

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Sample Date & Time			Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14
Sample weight [g]	16-Oct-14	09:38	200	200	200	200	200	200	200	200	200	200	200
Volume D.I. Water [mL]	16-Oct-14	09:38	800	800	800	800	800	800	800	800	800	800	800
Initial pH	16-Oct-14	09:38	6.16	6.03	6.07	6.38	6.48	6.13	6.17	6.10	6.09	6.21	6.81
Final pH	16-Oct-14	09:38	7.21	7.24	6.23	6.82	7.52	6.69	6.18	6.30	6.81	6.67	7.35
pH [no unit]	21-Oct-14	11:05	8.51	8.34	8.02	7.96	9.29	8.90	8.51	8.43	9.15	8.97	9.06
Alkalinity [mg/L as CaCO ₃]	21-Oct-14	11:05	35	23	30	24	23	30	26	37	25	24	28
Conductivity [µS/cm]	21-Oct-14	11:05	84	46	61	45	48	60	51	72	56	46	56
Sulphate [mg/L]	25-Oct-14	10:03	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Mercury [mg/L]	22-Oct-14	08:57	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Silver [mg/L]	24-Oct-14	15:32	0.000018	0.000034	0.000038	0.000061	0.000038	0.000031	0.000029	0.000020	0.000045	0.000019	0.000046
Aluminum [mg/L]	20-Oct-14	16:25	0.45	1.00	1.11	1.64	0.70	0.81	0.57	1.23	0.98	0.92	0.75
Arsenic [mg/L]	24-Oct-14	15:32	0.0018	0.0046	0.0035	0.0057	0.0041	0.0013	0.0035	0.0019	0.0020	0.0017	0.0022
Barium [mg/L]	24-Oct-14	15:32	0.00691	0.00396	0.00707	0.00451	0.0107	0.00886	0.00668	0.0122	0.0105	0.00692	0.0116
Boron [mg/L]	24-Oct-14	15:32	0.247	0.325	0.473	0.396	0.295	0.407	0.433	0.487	0.382	0.429	0.362
Beryllium [mg/L]	24-Oct-14	15:32	< 0.000007	< 0.000007	0.000019	0.000011	0.000015	0.000027	0.000022	0.000032	0.000039	0.000016	0.000028
Bismuth [mg/L]	24-Oct-14	15:32	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000011	0.000014	< 0.000007	< 0.000007	< 0.000007
Calcium [mg/L]	20-Oct-14	16:25	2.48	0.08	0.33	0.10	0.34	0.70	0.97	0.82	0.53	0.25	0.41
Cadmium [mg/L]	24-Oct-14	15:32	0.000005	0.000007	0.000039	0.000024	0.000010	< 0.000003	< 0.000003	0.000040	0.000028	0.000010	0.000007
Cobalt [mg/L]	24-Oct-14	15:32	0.000386	0.000933	0.000769	0.000883	0.00148	0.000743	0.000994	0.000755	0.000639	0.00188	0.00185
Chromium [mg/L]	24-Oct-14	15:32	0.00099	0.00174	0.00281	0.00225	0.00240	0.00188	0.00161	0.00232	0.00177	0.00973	0.00846



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SFE-24hr 4:1 L/S ratio

LR Report :

CA12165-OCT14

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: E1-1	6: E1-2	7: E1-3	8: E1-4	9: E1-5	10: E2-1	11: E2-2	12: E2-3	13: E2-4	14: E3-1	15: E3-2
Copper [mg/L]	24-Oct-14	15:32	0.00184	0.00315	0.00345	0.00567	0.00308	0.00200	0.00378	0.00416	0.00211	0.00233	0.00455
Iron [mg/L]	20-Oct-14	16:25	0.301	0.445	0.670	0.623	0.712	0.677	0.655	1.15	0.706	1.03	0.965
Potassium [mg/L]	20-Oct-14	16:25	3.99	0.853	1.73	0.960	1.44	1.04	0.908	2.14	1.56	0.312	0.811
Lithium [mg/L]	24-Oct-14	15:32	0.000878	0.000519	0.000933	0.000503	0.000650	0.000671	0.00114	0.000965	0.000804	0.000902	0.00107
Magnesium [mg/L]	20-Oct-14	16:25	0.862	0.102	0.178	0.129	0.196	0.181	0.202	0.340	0.179	0.397	0.487
Manganese [mg/L]	24-Oct-14	15:32	0.0102	0.0346	0.0272	0.0296	0.0455	0.0318	0.0295	0.0466	0.0315	0.115	0.0687
Molybdenum [mg/L]	24-Oct-14	15:32	0.00176	0.00113	0.00035	0.00072	0.00099	0.00048	0.00027	0.00039	0.00075	0.00033	0.00056
Sodium [mg/L]	20-Oct-14	16:25	9.69	9.13	11.6	8.34	7.73	11.4	8.02	13.2	9.39	9.58	10.3
Nickel [mg/L]	24-Oct-14	15:32	0.0006	0.0012	0.0013	0.0013	0.0020	0.0011	0.0013	0.0011	0.0009	0.0037	0.0046
Lead [mg/L]	24-Oct-14	15:32	0.00037	0.00087	0.00078	0.00166	0.00234	0.00165	0.00131	0.00137	0.00140	0.00126	0.00156
Antimony [mg/L]	24-Oct-14	15:32	0.0010	0.0015	0.0010	0.0010	0.0009	0.0006	0.0006	0.0007	0.0007	0.0006	0.0005
Selenium [mg/L]	24-Oct-14	15:32	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silicon [mg/L]	20-Oct-14	16:25	5.71	5.19	10.7	6.67	5.58	7.55	8.50	10.3	7.55	9.21	7.29
Tin [mg/L]	24-Oct-14	15:32	0.00003	0.00003	0.00003	0.00005	0.00001	0.00002	0.00009	0.00009	0.00004	0.00003	0.00005
Strontium [mg/L]	20-Oct-14	16:25	0.0061	0.0005	0.0010	0.0007	0.0010	0.0011	0.0015	0.0022	0.0012	0.0004	0.0006
Titanium [mg/L]	24-Oct-14	15:32	0.00451	0.00757	0.0142	0.00762	0.00929	0.0255	0.0130	0.0369	0.0296	0.0184	0.0143
Thallium [mg/L]	24-Oct-14	15:32	0.000005	< 0.000005	0.000006	0.000006	< 0.000005	0.000012	0.000089	0.000014	0.000030	< 0.000005	0.000006
Uranium [mg/L]	24-Oct-14	15:32	0.000093	0.000163	0.000202	0.000126	0.000129	0.000129	0.000330	0.000216	0.000201	0.000057	0.000087
Vanadium [mg/L]	24-Oct-14	15:32	0.00061	0.00129	0.00121	0.00139	0.00131	0.00100	0.00152	0.00138	0.00117	0.00216	0.00208
Zinc [mg/L]	24-Oct-14	15:32	< 0.001	0.002	0.007	0.003	0.003	0.004	0.003	0.003	0.003	0.004	0.004

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SFE-24hr 4:1 L/S ratio

28-October-2014

Date Rec. : 06 October 2014

LR Report: CA12165-OCT14

Reference: OP-408779

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	16: E3-3	17: E3-4	18: E3-5	19: E4-1	20: E4-2	21: E5-1	22: E5-2	23: E5-3	24: E5-4	25: E6-1	26: E6-2	27: E6-3	28: E6-4
Sample Date & Time	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14
Sample weight [g]	200	200	200	200	200	200	200	200	200	200	200	200	200
Volume D.I. Water [mL]	800	800	800	800	800	800	800	800	800	800	800	800	800
Initial pH	6.71	6.39	6.57	8.10	6.43	6.24	6.20	6.68	6.33	6.33	6.38	6.48	5.84
Final pH	7.14	6.83	7.63	8.71	6.80	6.96	6.63	7.18	7.33	7.29	6.73	7.30	6.18
pH [no unit]	8.67	9.59	9.64	8.96	8.97	7.57	9.10	8.70	9.57	9.26	7.83	8.76	7.55
Alkalinity [mg/L as CaCO ₃]	26	29	23	44	27	16	26	28	27	33	38	34	17
Conductivity [µS/cm]	48	63	50	104	56	33	52	56	58	68	74	70	40
Sulphate [mg/L]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Mercury [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001
Silver [mg/L]	0.000060	0.000049	0.000045	0.000020	0.000071	0.000037	0.000034	0.000028	0.000039	0.000023	0.000057	0.000024	0.000059
Aluminum [mg/L]	0.60	0.88	0.66	0.43	0.56	1.62	0.73	0.48	0.59	0.60	1.04	0.68	1.31
Arsenic [mg/L]	0.0012	0.0012	0.0018	0.0063	0.0008	0.0019	0.0010	0.0013	0.0012	0.0013	0.0011	0.0013	0.0013
Barium [mg/L]	0.00398	0.00926	0.0101	0.00518	0.00547	0.00389	0.00675	0.00731	0.00772	0.00504	0.00589	0.0101	0.00402
Boron [mg/L]	0.367	0.414	0.366	0.173	0.355	0.314	0.429	0.340	0.395	0.397	0.286	0.351	0.463
Beryllium [mg/L]	0.00009	0.000020	0.000025	< 0.000007	0.000009	0.000016	0.000028	0.000015	0.000021	0.000014	0.000015	0.000026	0.000013
Bismuth [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Calcium [mg/L]	0.19	0.46	0.36	5.65	0.42	0.05	0.15	0.55	0.25	0.27	0.82	0.78	0.07
Cadmium [mg/L]	< 0.000003	< 0.000003	0.000004	0.000004	< 0.000003	0.000007	< 0.000003	0.000007	0.000015	< 0.000003	0.000010	0.000003	0.000014
Cobalt [mg/L]	0.000649	0.00134	0.00155	0.00128	0.00108	0.000682	0.00132	0.000996	0.000867	0.000825	0.000612	0.000847	0.000557
Chromium [mg/L]	0.00292	0.00618	0.00716	0.00518	0.00546	0.00428	0.00467	0.00263	0.00326	0.00222	0.00229	0.00191	0.00329



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SFE-24hr 4:1 L/S ratio

LR Report :

CA12165-OCT14

Analysis	16: E3-3	17: E3-4	18: E3-5	19: E4-1	20: E4-2	21: E5-1	22: E5-2	23: E5-3	24: E5-4	25: E6-1	26: E6-2	27: E6-3	28: E6-4
Copper [mg/L]	0.00174	0.00194	0.00278	0.00602	0.00142	0.00188	0.00234	0.00250	0.00187	0.00110	0.00189	0.00151	0.00274
Iron [mg/L]	0.405	0.869	0.774	0.513	0.473	0.480	0.495	0.414	0.410	0.333	0.637	0.426	0.556
Potassium [mg/L]	0.853	0.472	0.415	2.51	1.08	0.401	0.390	1.41	1.08	1.18	2.99	3.05	0.670
Lithium [mg/L]	0.000578	0.000842	0.000831	0.00123	0.000575	0.000389	0.000654	0.000624	0.000846	0.000622	0.000526	0.000841	0.000447
Magnesium [mg/L]	0.194	0.410	0.331	2.42	0.367	0.181	0.173	0.294	0.204	0.146	0.889	0.331	0.156
Manganese [mg/L]	0.0319	0.0604	0.0625	0.0233	0.0348	0.0310	0.0515	0.0379	0.0337	0.0219	0.0262	0.0223	0.0210
Molybdenum [mg/L]	0.00053	0.00030	0.00073	0.00149	0.00029	0.00062	0.00018	0.00078	0.00065	0.00078	0.00053	0.00076	0.00032
Sodium [mg/L]	9.01	11.0	8.17	8.66	9.52	6.30	9.97	9.84	9.82	13.0	12.3	12.4	7.91
Nickel [mg/L]	0.0016	0.0029	0.0045	0.0087	0.0038	0.0018	0.0022	0.0018	0.0024	0.0015	0.0018	0.0014	0.0015
Lead [mg/L]	0.00075	0.00149	0.00121	0.00056	0.00046	0.00045	0.00079	0.00077	0.00066	0.00058	0.00044	0.00048	0.00042
Antimony [mg/L]	0.0006	0.0006	0.0006	0.0007	0.0009	0.0010	0.0007	0.0007	0.0008	0.0007	0.0006	0.0006	0.0007
Selenium [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silicon [mg/L]	6.32	8.08	7.21	5.43	6.65	6.18	7.33	6.42	7.28	6.73	5.78	6.67	9.78
Tin [mg/L]	0.00002	0.00002	0.00002	0.00003	0.00005	0.00006	0.00003	0.00011	0.00002	0.00006	0.00006	0.00004	0.00005
Strontium [mg/L]	0.0004	0.0008	0.0005	0.0137	0.0006	0.0005	0.0004	0.0009	0.0006	0.0006	0.0028	0.0016	0.0007
Titanium [mg/L]	0.00674	0.0159	0.0128	0.00376	0.00961	0.0116	0.0135	0.0100	0.00814	0.00697	0.00784	0.00998	0.0124
Thallium [mg/L]	< 0.000005	0.000007	0.000008	0.000015	0.000012	0.000006	< 0.000005	< 0.000005	< 0.000005	< 0.000005	0.000009	< 0.000005	< 0.000005
Uranium [mg/L]	0.000106	0.000070	0.000077	0.000128	0.000052	0.000119	0.000081	0.000094	0.000081	0.000120	0.000124	0.000099	0.000113
Vanadium [mg/L]	0.00120	0.00166	0.00178	0.00249	0.00124	0.00191	0.00108	0.00093	0.00111	0.00072	0.00092	0.00091	0.00123
Zinc [mg/L]	0.002	0.004	0.004	0.003	0.003	0.002	0.002	0.002	0.002	0.001	0.001	0.002	0.002

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NAG Test

15-October-2014

Date Rec. : 06 October 2014

LR Report: CA12166-OCT14

Reference: OP-408779

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Sample weight g	Vol H2O2 mL	Final pH	NaOH Normality	Vol NaOH to PH 4.5 mL	Vol NaOH to PH 7.0 mL	NAG (pH 4.5) kg H2SO4/tonne	NAG (pH 7.0) kg H2SO4/tonne
3: Analysis Approval Date		10-Oct-14	10-Oct-14	10-Oct-14	10-Oct-14	10-Oct-14	10-Oct-14	10-Oct-14	10-Oct-14
4: Analysis Approval Time		16:24	16:24	16:24	16:24	16:24	16:24	16:24	16:24
5: E1-1	Sep-14	1.5	150	7.69	0.10	0.00	0.00	0.0	0.0
6: E1-2	Sep-14	1.5	150	6.80	0.10	0.00	0.08	0.0	0.3
7: E1-3	Sep-14	1.5	150	6.09	0.10	0.00	0.43	0.0	1.4
8: E1-4	Sep-14	1.5	150	6.41	0.10	0.00	0.22	0.0	0.7
9: E1-5	Sep-14	1.5	150	6.61	0.10	0.00	0.15	0.0	0.5
10: E2-1	Sep-14	1.5	150	6.15	0.10	0.00	0.49	0.0	1.6
11: E2-2	Sep-14	1.5	150	6.34	0.10	0.00	0.30	0.0	1.0
12: E2-3	Sep-14	1.5	150	6.13	0.10	0.00	0.43	0.0	1.4
13: E2-4	Sep-14	1.6	150	6.51	0.10	0.00	0.32	0.0	1.0
14: E3-1	Sep-14	1.5	150	6.68	0.10	0.00	0.10	0.0	0.3
15: E3-2	Sep-14	1.5	150	6.99	0.10	0.00	0.03	0.0	0.1
16: E3-3	Sep-14	1.5	150	6.33	0.10	0.00	0.17	0.0	0.6
17: E3-4	Sep-14	1.5	150	6.54	0.10	0.00	0.22	0.0	0.7
18: E3-5	Sep-14	1.5	150	6.95	0.10	0.00	0.05	0.0	0.2
19: E4-1	Sep-14	1.5	150	8.34	0.10	0.00	0.00	0.0	0.0
20: E4-2	Sep-14	1.5	150	6.75	0.10	0.00	0.08	0.0	0.3
21: E5-1	Sep-14	1.5	150	6.40	0.10	0.00	0.29	0.0	1.0



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NAG Test

LR Report :

CA12166-OCT14

Sample ID	Sample Date & Time	Sample weight g	Vol H2O2 mL	Final pH	NaOH Normality	Vol NaOH to PH 4.5 mL	Vol NaOH to PH 7.0 mL	NAG (pH 4.5) kg H2SO4/tonne	NAG (pH 7.0) kg H2SO4/tonne
22: E5-2	Sep-14	1.5	150	6.60	0.10	0.00	0.13	0.0	0.4
23: E5-3	Sep-14	1.5	150	7.36	0.10	0.00	0.00	0.0	0.0
24: E5-4	Sep-14	1.5	150	6.44	0.10	0.00	0.26	0.0	0.9
25: E6-1	Sep-14	1.5	150	4.34	0.10	0.05	0.57	0.2	1.9
26: E6-2	Sep-14	1.5	150	6.69	0.10	0.00	0.17	0.0	0.5
27: E6-3	Sep-14	1.5	150	6.67	0.10	0.00	0.18	0.0	0.6
28: E6-4	Sep-14	1.5	150	6.20	0.10	0.00	0.38	0.0	1.2

NAG = (49 x Vol. of base x N of base)/sample weight
kg H2SO4/tonne

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SFE-24hr 4:1 L/S ratio

17-December-2014

Date Rec. : 04 December 2014

LR Report: CA12185-DEC14

Reference: Reassay

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: E2-1	6: E2-2	7: E2-3	8: E2-4	9: E3-1	10: E3-4	11: E3-5	12: E4-2	13: E5-2	14: E5-4
Sample Date & Time			Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14	Sep-14
Sample weight [g]	09-Dec-14	15:59	200	200	200	200	200	200	200	200	200	200
Volume D.I. Water [mL]	09-Dec-14	15:59	800	800	800	800	800	800	800	800	800	800
Initial pH	09-Dec-14	15:59	5.69	5.49	5.39	5.60	6.03	6.04	6.18	5.89	5.83	6.03
Final pH	09-Dec-14	15:59	6.58	6.00	6.19	6.70	6.69	6.77	7.52	6.71	6.49	7.03
pH [no unit]	11-Dec-14	11:20	8.49	8.84	8.57	9.44	8.10	9.37	9.48	9.39	9.41	7.78
Alkalinity [mg/L as CaCO ₃]	11-Dec-14	11:20	33	31	32	32	24	34	28	34	30	18
Conductivity [µS/cm]	11-Dec-14	11:20	63	68	72	71	42	60	65	77	62	38
Sulphate [mg/L]	10-Dec-14	13:41	< 2	< 2	4.4	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Mercury [mg/L]	10-Dec-14	13:48	0.00001	0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001
Silver [mg/L]	10-Dec-14	14:36	0.000028	0.000033	0.000034	0.000046	0.000031	0.000065	0.000063	0.000094	0.000025	0.000048
Aluminum [mg/L]	10-Dec-14	14:36	0.86	0.73	0.50	0.93	0.97	1.65	1.14	1.12	0.72	0.90
Arsenic [mg/L]	10-Dec-14	14:36	0.0020	0.0090	0.0020	0.0021	0.0029	0.0018	0.0031	0.0019	0.0013	0.0015
Barium [mg/L]	10-Dec-14	14:36	0.00538	0.0179	0.00406	0.00836	0.00291	0.00295	0.00332	0.00338	0.00267	0.00492
Boron [mg/L]	10-Dec-14	14:36	0.380	0.441	0.319	0.381	0.260	0.343	0.297	0.304	0.403	0.282
Beryllium [mg/L]	10-Dec-14	14:36	0.000026	0.000080	0.000020	0.000036	0.000020	0.000022	0.000018	0.000016	0.000018	0.000033
Bismuth [mg/L]	10-Dec-14	14:36	0.000021	0.000161	0.000029	0.000032	0.000018	0.000017	0.000013	0.000014	0.000012	0.000013
Calcium [mg/L]	10-Dec-14	14:36	0.16	0.68	0.12	0.30	0.05	0.46	0.05	0.07	0.08	0.26
Cadmium [mg/L]	10-Dec-14	14:36	0.000043	0.000008	0.000008	0.000008	< 0.000003	< 0.000003	< 0.000003	0.000019	< 0.000003	0.000004
Cobalt [mg/L]	10-Dec-14	14:36	0.000337	0.00178	0.000380	0.000438	0.000825	0.000511	0.000537	0.000675	0.000357	0.000554
Chromium [mg/L]	10-Dec-14	14:36	0.00192	0.00494	0.00157	0.00167	0.00830	0.00540	0.00511	0.00702	0.00285	0.00397



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SFE-24hr 4:1 L/S ratio

LR Report :

CA12185-DEC14

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: E2-1	6: E2-2	7: E2-3	8: E2-4	9: E3-1	10: E3-4	11: E3-5	12: E4-2	13: E5-2	14: E5-4
Copper [mg/L]	10-Dec-14	14:36	0.00224	0.00639	0.00506	0.00217	0.00220	0.00208	0.00232	0.00170	0.00180	0.00184
Iron [mg/L]	10-Dec-14	14:36	0.513	0.877	0.491	0.626	0.650	0.488	0.410	0.594	0.288	0.512
Potassium [mg/L]	10-Dec-14	14:36	1.10	1.59	1.57	2.91	0.207	0.374	0.781	1.29	0.683	1.21
Lithium [mg/L]	10-Dec-14	14:36	0.000455	0.00227	0.000345	0.000619	0.000395	0.000348	0.000332	0.000259	0.000272	0.000523
Magnesium [mg/L]	10-Dec-14	14:36	0.124	0.324	0.076	0.159	0.338	0.251	0.271	0.227	0.120	0.281
Manganese [mg/L]	10-Dec-14	14:36	0.0151	0.0590	0.0212	0.0215	0.0467	0.0249	0.0180	0.0232	0.0134	0.0212
Molybdenum [mg/L]	10-Dec-14	14:36	0.00081	0.00044	0.00053	0.00082	0.00060	0.00052	0.00109	0.00041	0.00022	0.00076
Sodium [mg/L]	10-Dec-14	14:36	12.8	13.5	12.0	13.3	5.61	9.75	11.0	9.52	13.8	11.5
Nickel [mg/L]	10-Dec-14	14:36	0.0007	0.0032	0.0010	0.0008	0.0031	0.0021	0.0030	0.0037	0.0012	0.0026
Lead [mg/L]	10-Dec-14	14:36	0.00058	0.00279	0.00066	0.00096	0.00058	0.00042	0.00038	0.00043	0.00026	0.00046
Antimony [mg/L]	10-Dec-14	14:36	0.0004	0.0004	0.0006	0.0004	0.0005	0.0004	0.0004	0.0005	0.0003	0.0004
Selenium [mg/L]	10-Dec-14	14:36	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silicon [mg/L]	10-Dec-14	14:36	7.03	7.43	6.07	7.45	6.39	7.09	5.76	6.00	6.42	7.04
Tin [mg/L]	10-Dec-14	14:36	0.00007	0.00012	0.00007	0.00006	0.00006	0.00004	0.00005	0.00008	0.00007	0.00006
Strontium [mg/L]	10-Dec-14	14:36	0.0007	0.0015	0.0009	0.0011	0.0005	0.0062	0.0004	0.0004	0.0003	0.0008
Titanium [mg/L]	10-Dec-14	14:36	0.0211	0.0497	0.0190	0.0257	0.0136	0.0122	0.0078	0.0142	0.0084	0.0134
Thallium [mg/L]	10-Dec-14	14:36	0.000008	0.000024	0.000006	0.000013	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	0.000011
Uranium [mg/L]	10-Dec-14	14:36	0.000156	0.000463	0.000159	0.000202	0.000066	0.000074	0.000088	0.000075	0.000067	0.000104
Vanadium [mg/L]	10-Dec-14	14:36	0.00100	0.00251	0.00098	0.00107	0.00295	0.00170	0.00213	0.00190	0.00083	0.00136
Zinc [mg/L]	10-Dec-14	14:36	0.002	0.006	0.016	0.006	0.002	0.004	0.002	0.002	0.001	0.002

Reassay - previous SGS lab report CA12165-OCT4

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical



Report No. CA12185-DEC14
Customer Agnico Eagle Mines Limited
Attention Erika Voyer
Reference Reassay
SFE Leach
Title Final Report

		Analysis	Analysis			
		Approval	Approval			
Sample ID		Date	Time	E2-1	E2-2	E2-3
Sample Date/Time				Sep-14	Sep-14	Sep-14
Analysis	Units					
Sample weight	g	9-Dec-14	15:59	200	200	200
Volume D.I. Water	mL	9-Dec-14	15:59	800	800	800
Initial pH		9-Dec-14	15:59	5.69	5.49	5.39
Final pH		9-Dec-14	15:59	6.58	6.00	6.19
pH	no unit	11-Dec-14	11:20	8.49	8.84	8.57
Alkalinity	mg/L as CaCO3	11-Dec-14	11:20	33	31	32
Conductivity	µS/cm	11-Dec-14	11:20	63	68	72
Sulphate	mg/L	10-Dec-14	13:41	< 2	< 2	4.4
Mercury	mg/L	10-Dec-14	13:48	0.00001	0.00001	0.00001
Silver	mg/L	10-Dec-14	14:36	0.000028	0.000033	0.000034
Aluminum	mg/L	10-Dec-14	14:36	0.86	0.73	0.50
Arsenic	mg/L	10-Dec-14	14:36	0.0020	0.0090	0.0020
Barium	mg/L	10-Dec-14	14:36	0.00538	0.0179	0.00406
Boron	mg/L	10-Dec-14	14:36	0.380	0.441	0.319
Beryllium	mg/L	10-Dec-14	14:36	0.000026	0.000080	0.000020
Bismuth	mg/L	10-Dec-14	14:36	0.000021	0.000161	0.000029
Calcium	mg/L	10-Dec-14	14:36	0.16	0.68	0.12
Cadmium	mg/L	10-Dec-14	14:36	0.000043	0.000008	0.000008
Cobalt	mg/L	10-Dec-14	14:36	0.000337	0.00178	0.000380
Chromium	mg/L	10-Dec-14	14:36	0.00192	0.00494	0.00157
Copper	mg/L	10-Dec-14	14:36	0.00224	0.00639	0.00506
Iron	mg/L	10-Dec-14	14:36	0.513	0.877	0.491
Potassium	mg/L	10-Dec-14	14:36	1.10	1.59	1.57
Lithium	mg/L	10-Dec-14	14:36	0.000455	0.00227	0.000345
Magnesium	mg/L	10-Dec-14	14:36	0.124	0.324	0.076
Manganese	mg/L	10-Dec-14	14:36	0.0151	0.0590	0.0212
Molybdenum	mg/L	10-Dec-14	14:36	0.00081	0.00044	0.00053
Sodium	mg/L	10-Dec-14	14:36	12.8	13.5	12.0
Nickel	mg/L	10-Dec-14	14:36	0.0007	0.0032	0.0010
Lead	mg/L	10-Dec-14	14:36	0.00058	0.00279	0.00066
Antimony	mg/L	10-Dec-14	14:36	0.0004	0.0004	0.0006
Selenium	mg/L	10-Dec-14	14:36	< 0.001	< 0.001	< 0.001
Silicon	mg/L	10-Dec-14	14:36	7.03	7.43	6.07
Tin	mg/L	10-Dec-14	14:36	0.00007	0.00012	0.00007

Sample ID		Analysis	Analysis			
Sample Date/Time		Approval	Approval			
Analysis	Units	Date	Time	E2-1	E2-2	E2-3
				Sep-14	Sep-14	Sep-14
Strontium	mg/L	10-Dec-14	14:36	0.0007	0.0015	0.0009
Titanium	mg/L	10-Dec-14	14:36	0.0211	0.0497	0.0190
Thallium	mg/L	10-Dec-14	14:36	0.000008	0.000024	0.000006
Uranium	mg/L	10-Dec-14	14:36	0.000156	0.000463	0.000159
Vanadium	mg/L	10-Dec-14	14:36	0.00100	0.00251	0.00098
Zinc	mg/L	10-Dec-14	14:36	0.002	0.006	0.016



Report No. CA12185-DEC14
Customer Agnico Eagle Mines Limited
Attention Erika Voyer
Reference Reassay
SFE Leach
Title Final Report

Sample ID		Analysis Approval Date	Analysis Approval Time	E2-1 Sep-14	E2-2 Sep-14	E2-3 Sep-14	E2-4 Sep-14
Sample Date/Time	Units						
Analysis							
Sample weight	g	9-Dec-14	15:59	200	200	200	200
Volume D.I. Water	mL	9-Dec-14	15:59	800	800	800	800
Initial pH		9-Dec-14	15:59	5.69	5.49	5.39	5.60
Final pH		9-Dec-14	15:59	6.58	6.00	6.19	6.70
pH	no unit	11-Dec-14	11:20	8.49	8.84	8.57	9.44
Alkalinity	mg/L as CaCO ₃	11-Dec-14	11:20	33	31	32	32
Conductivity	µS/cm	11-Dec-14	11:20	63	68	72	71
Sulphate	mg/L	10-Dec-14	13:41	< 2	< 2	4.4	< 2
Mercury	mg/L	10-Dec-14	13:48	0.00001	0.00001	0.00001	< 0.000
Silver	mg/L	10-Dec-14	14:36	0.000028	0.000033	0.000034	0.0000
Aluminum	mg/L	10-Dec-14	14:36	0.86	0.73	0.50	0.93
Arsenic	mg/L	10-Dec-14	14:36	0.0020	0.0090	0.0020	0.002
Barium	mg/L	10-Dec-14	14:36	0.00538	0.0179	0.00406	0.0083
Boron	mg/L	10-Dec-14	14:36	0.380	0.441	0.319	0.381
Beryllium	mg/L	10-Dec-14	14:36	0.000026	0.000080	0.000020	0.0000
Bismuth	mg/L	10-Dec-14	14:36	0.000021	0.000161	0.000029	0.0000
Calcium	mg/L	10-Dec-14	14:36	0.16	0.68	0.12	0.30
Cadmium	mg/L	10-Dec-14	14:36	0.000043	0.000008	0.000008	0.0000
Cobalt	mg/L	10-Dec-14	14:36	0.000337	0.00178	0.000380	0.0004
Chromium	mg/L	10-Dec-14	14:36	0.00192	0.00494	0.00157	0.0016
Copper	mg/L	10-Dec-14	14:36	0.00224	0.00639	0.00506	0.0021
Iron	mg/L	10-Dec-14	14:36	0.513	0.877	0.491	0.626
Potassium	mg/L	10-Dec-14	14:36	1.10	1.59	1.57	2.91
Lithium	mg/L	10-Dec-14	14:36	0.000455	0.00227	0.000345	0.0006
Magnesium	mg/L	10-Dec-14	14:36	0.124	0.324	0.076	0.159
Manganese	mg/L	10-Dec-14	14:36	0.0151	0.0590	0.0212	0.0211
Molybdenum	mg/L	10-Dec-14	14:36	0.00081	0.00044	0.00053	0.0008
Sodium	mg/L	10-Dec-14	14:36	12.8	13.5	12.0	13.3
Nickel	mg/L	10-Dec-14	14:36	0.0007	0.0032	0.0010	0.0001
Lead	mg/L	10-Dec-14	14:36	0.00058	0.00279	0.00066	0.0009
Antimony	mg/L	10-Dec-14	14:36	0.0004	0.0004	0.0006	0.0001
Selenium	mg/L	10-Dec-14	14:36	< 0.001	< 0.001	< 0.001	< 0.00
Silicon	mg/L	10-Dec-14	14:36	7.03	7.43	6.07	7.45
Tin	mg/L	10-Dec-14	14:36	0.00007	0.00012	0.00007	0.0000

Sample ID		Analysis	Analysis	E2-1	E2-2	E2-3	E2-4
		Approval	Approval				
Sample Date/Time		Date	Time	Sep-14	Sep-14	Sep-14	Sep-14
Analysis	Units						
Strontium	mg/L	10-Dec-14	14:36	0.0007	0.0015	0.0009	0.001
Titanium	mg/L	10-Dec-14	14:36	0.0211	0.0497	0.0190	0.025
Thallium	mg/L	10-Dec-14	14:36	0.000008	0.000024	0.000006	0.0000
Uranium	mg/L	10-Dec-14	14:36	0.000156	0.000463	0.000159	0.0002
Vanadium	mg/L	10-Dec-14	14:36	0.00100	0.00251	0.00098	0.0010
Zinc	mg/L	10-Dec-14	14:36	0.002	0.006	0.016	0.006



Report No. CA12185-DEC14
Customer Agnico Eagle Mines Limited
Attention Erika Voyer
Reference Reassay
SFE Leach
Title Final Report

		Analysis	Analysis				
		Approval	Approval				
Sample ID		Date	Time	E2-1	E2-2	E2-3	E2-4
Sample Date/Time				Sep-14	Sep-14	Sep-14	Sep-14
Analysis	Units						
Sample weight	g	9-Dec-14	15:59	200	200	200	200
Volume D.I. Water	mL	9-Dec-14	15:59	800	800	800	800
Initial pH		9-Dec-14	15:59	5.69	5.49	5.39	5.60
Final pH		9-Dec-14	15:59	6.58	6.00	6.19	6.70
pH	no unit	11-Dec-14	11:20	8.49	8.84	8.57	9.44
Alkalinity	mg/L as CaCO3	11-Dec-14	11:20	33	31	32	32
Conductivity	µS/cm	11-Dec-14	11:20	63	68	72	71
Sulphate	mg/L	10-Dec-14	13:41	< 2	< 2	4.4	< 2
Mercury	mg/L	10-Dec-14	13:48	0.00001	0.00001	0.00001	< 0.000
Silver	mg/L	10-Dec-14	14:36	0.000028	0.000033	0.000034	0.0000
Aluminum	mg/L	10-Dec-14	14:36	0.86	0.73	0.50	0.93
Arsenic	mg/L	10-Dec-14	14:36	0.0020	0.0090	0.0020	0.002
Barium	mg/L	10-Dec-14	14:36	0.00538	0.0179	0.00406	0.0083
Boron	mg/L	10-Dec-14	14:36	0.380	0.441	0.319	0.381
Beryllium	mg/L	10-Dec-14	14:36	0.000026	0.000080	0.000020	0.0000
Bismuth	mg/L	10-Dec-14	14:36	0.000021	0.000161	0.000029	0.0000
Calcium	mg/L	10-Dec-14	14:36	0.16	0.68	0.12	0.30
Cadmium	mg/L	10-Dec-14	14:36	0.000043	0.000008	0.000008	0.0000
Cobalt	mg/L	10-Dec-14	14:36	0.000337	0.00178	0.000380	0.0004
Chromium	mg/L	10-Dec-14	14:36	0.00192	0.00494	0.00157	0.0016
Copper	mg/L	10-Dec-14	14:36	0.00224	0.00639	0.00506	0.0021
Iron	mg/L	10-Dec-14	14:36	0.513	0.877	0.491	0.626
Potassium	mg/L	10-Dec-14	14:36	1.10	1.59	1.57	2.91
Lithium	mg/L	10-Dec-14	14:36	0.000455	0.00227	0.000345	0.0006
Magnesium	mg/L	10-Dec-14	14:36	0.124	0.324	0.076	0.159
Manganese	mg/L	10-Dec-14	14:36	0.0151	0.0590	0.0212	0.0211
Molybdenum	mg/L	10-Dec-14	14:36	0.00081	0.00044	0.00053	0.0008
Sodium	mg/L	10-Dec-14	14:36	12.8	13.5	12.0	13.3
Nickel	mg/L	10-Dec-14	14:36	0.0007	0.0032	0.0010	0.0001
Lead	mg/L	10-Dec-14	14:36	0.00058	0.00279	0.00066	0.0009
Antimony	mg/L	10-Dec-14	14:36	0.0004	0.0004	0.0006	0.0001
Selenium	mg/L	10-Dec-14	14:36	< 0.001	< 0.001	< 0.001	< 0.00
Silicon	mg/L	10-Dec-14	14:36	7.03	7.43	6.07	7.45
Tin	mg/L	10-Dec-14	14:36	0.00007	0.00012	0.00007	0.0000

Sample ID		Analysis	Analysis	E2-1	E2-2	E2-3	E2-4
		Approval	Approval				
Sample Date/Time		Date	Time	Sep-14	Sep-14	Sep-14	Sep-14
Analysis	Units						
Strontium	mg/L	10-Dec-14	14:36	0.0007	0.0015	0.0009	0.001
Titanium	mg/L	10-Dec-14	14:36	0.0211	0.0497	0.0190	0.025
Thallium	mg/L	10-Dec-14	14:36	0.000008	0.000024	0.000006	0.0000
Uranium	mg/L	10-Dec-14	14:36	0.000156	0.000463	0.000159	0.0002
Vanadium	mg/L	10-Dec-14	14:36	0.00100	0.00251	0.00098	0.0010
Zinc	mg/L	10-Dec-14	14:36	0.002	0.006	0.016	0.006



Report No. CA12185-DEC14
Customer Agnico Eagle Mines Limited
Attention Erika Voyer
Reference Reassay
SFE Leach
Title Final Report

Sample ID		Analysis Approval Date	Analysis Approval Time	E2-1 Sep-14	E2-2 Sep-14	E2-3 Sep-14	E2-4 Sep-14
Sample Date/Time	Units						
Analysis							
Sample weight	g	9-Dec-14	15:59	200	200	200	200
Volume D.I. Water	mL	9-Dec-14	15:59	800	800	800	800
Initial pH		9-Dec-14	15:59	5.69	5.49	5.39	5.60
Final pH		9-Dec-14	15:59	6.58	6.00	6.19	6.70
pH	no unit	11-Dec-14	11:20	8.49	8.84	8.57	9.44
Alkalinity	mg/L as CaCO ₃	11-Dec-14	11:20	33	31	32	32
Conductivity	µS/cm	11-Dec-14	11:20	63	68	72	71
Sulphate	mg/L	10-Dec-14	13:41	< 2	< 2	4.4	< 2
Mercury	mg/L	10-Dec-14	13:48	0.00001	0.00001	0.00001	< 0.000
Silver	mg/L	10-Dec-14	14:36	0.000028	0.000033	0.000034	0.0000
Aluminum	mg/L	10-Dec-14	14:36	0.86	0.73	0.50	0.93
Arsenic	mg/L	10-Dec-14	14:36	0.0020	0.0090	0.0020	0.002
Barium	mg/L	10-Dec-14	14:36	0.00538	0.0179	0.00406	0.0083
Boron	mg/L	10-Dec-14	14:36	0.380	0.441	0.319	0.381
Beryllium	mg/L	10-Dec-14	14:36	0.000026	0.000080	0.000020	0.0000
Bismuth	mg/L	10-Dec-14	14:36	0.000021	0.000161	0.000029	0.0000
Calcium	mg/L	10-Dec-14	14:36	0.16	0.68	0.12	0.30
Cadmium	mg/L	10-Dec-14	14:36	0.000043	0.000008	0.000008	0.0000
Cobalt	mg/L	10-Dec-14	14:36	0.000337	0.00178	0.000380	0.0004
Chromium	mg/L	10-Dec-14	14:36	0.00192	0.00494	0.00157	0.0016
Copper	mg/L	10-Dec-14	14:36	0.00224	0.00639	0.00506	0.0021
Iron	mg/L	10-Dec-14	14:36	0.513	0.877	0.491	0.626
Potassium	mg/L	10-Dec-14	14:36	1.10	1.59	1.57	2.91
Lithium	mg/L	10-Dec-14	14:36	0.000455	0.00227	0.000345	0.0006
Magnesium	mg/L	10-Dec-14	14:36	0.124	0.324	0.076	0.159
Manganese	mg/L	10-Dec-14	14:36	0.0151	0.0590	0.0212	0.0211
Molybdenum	mg/L	10-Dec-14	14:36	0.00081	0.00044	0.00053	0.0008
Sodium	mg/L	10-Dec-14	14:36	12.8	13.5	12.0	13.3
Nickel	mg/L	10-Dec-14	14:36	0.0007	0.0032	0.0010	0.0001
Lead	mg/L	10-Dec-14	14:36	0.00058	0.00279	0.00066	0.0009
Antimony	mg/L	10-Dec-14	14:36	0.0004	0.0004	0.0006	0.0001
Selenium	mg/L	10-Dec-14	14:36	< 0.001	< 0.001	< 0.001	< 0.00
Silicon	mg/L	10-Dec-14	14:36	7.03	7.43	6.07	7.45
Tin	mg/L	10-Dec-14	14:36	0.00007	0.00012	0.00007	0.0000

Sample ID	Sample Date/Time	Analysis	Analysis	E2-1	E2-2	E2-3	E2-4
		Approval	Approval				
Analysis	Units	Date	Time	Sep-14	Sep-14	Sep-14	Sep-14
Strontium	mg/L	10-Dec-14	14:36	0.0007	0.0015	0.0009	0.001
Titanium	mg/L	10-Dec-14	14:36	0.0211	0.0497	0.0190	0.025
Thallium	mg/L	10-Dec-14	14:36	0.000008	0.000024	0.000006	0.0000
Uranium	mg/L	10-Dec-14	14:36	0.000156	0.000463	0.000159	0.0002
Vanadium	mg/L	10-Dec-14	14:36	0.00100	0.00251	0.00098	0.0010
Zinc	mg/L	10-Dec-14	14:36	0.002	0.006	0.016	0.006



Report No. CA12185-DEC14
Customer Agnico Eagle Mines Limited
Attention Erika Voyer
Reference Reassay
Title SFE Leach
Final Report

Sample ID		Analysis Approval Date	Analysis Approval Time	E2-1 Sep-14	E2-2 Sep-14	E2-3 Sep-14	E2-4 Sep-14
Sample Date/Time	Units						
Analysis							
Sample weight	g	9-Dec-14	15:59	200	200	200	200
Volume D.I. Water	mL	9-Dec-14	15:59	800	800	800	800
Initial pH		9-Dec-14	15:59	5.69	5.49	5.39	5.60
Final pH		9-Dec-14	15:59	6.58	6.00	6.19	6.70
pH	no unit	11-Dec-14	11:20	8.49	8.84	8.57	9.44
Alkalinity	mg/L as CaCO ₃	11-Dec-14	11:20	33	31	32	32
Conductivity	µS/cm	11-Dec-14	11:20	63	68	72	71
Sulphate	mg/L	10-Dec-14	13:41	< 2	< 2	4.4	< 2
Mercury	mg/L	10-Dec-14	13:48	0.00001	0.00001	0.00001	< 0.000
Silver	mg/L	10-Dec-14	14:36	0.000028	0.000033	0.000034	0.0000
Aluminum	mg/L	10-Dec-14	14:36	0.86	0.73	0.50	0.93
Arsenic	mg/L	10-Dec-14	14:36	0.0020	0.0090	0.0020	0.002
Barium	mg/L	10-Dec-14	14:36	0.00538	0.0179	0.00406	0.0083
Boron	mg/L	10-Dec-14	14:36	0.380	0.441	0.319	0.381
Beryllium	mg/L	10-Dec-14	14:36	0.000026	0.000080	0.000020	0.0000
Bismuth	mg/L	10-Dec-14	14:36	0.000021	0.000161	0.000029	0.0000
Calcium	mg/L	10-Dec-14	14:36	0.16	0.68	0.12	0.30
Cadmium	mg/L	10-Dec-14	14:36	0.000043	0.000008	0.000008	0.0000
Cobalt	mg/L	10-Dec-14	14:36	0.000337	0.00178	0.000380	0.0004
Chromium	mg/L	10-Dec-14	14:36	0.00192	0.00494	0.00157	0.0016
Copper	mg/L	10-Dec-14	14:36	0.00224	0.00639	0.00506	0.0021
Iron	mg/L	10-Dec-14	14:36	0.513	0.877	0.491	0.626
Potassium	mg/L	10-Dec-14	14:36	1.10	1.59	1.57	2.91
Lithium	mg/L	10-Dec-14	14:36	0.000455	0.00227	0.000345	0.0006
Magnesium	mg/L	10-Dec-14	14:36	0.124	0.324	0.076	0.159
Manganese	mg/L	10-Dec-14	14:36	0.0151	0.0590	0.0212	0.0211
Molybdenum	mg/L	10-Dec-14	14:36	0.00081	0.00044	0.00053	0.0008
Sodium	mg/L	10-Dec-14	14:36	12.8	13.5	12.0	13.3
Nickel	mg/L	10-Dec-14	14:36	0.0007	0.0032	0.0010	0.0001
Lead	mg/L	10-Dec-14	14:36	0.00058	0.00279	0.00066	0.0009
Antimony	mg/L	10-Dec-14	14:36	0.0004	0.0004	0.0006	0.0001
Selenium	mg/L	10-Dec-14	14:36	< 0.001	< 0.001	< 0.001	< 0.00
Silicon	mg/L	10-Dec-14	14:36	7.03	7.43	6.07	7.45
Tin	mg/L	10-Dec-14	14:36	0.00007	0.00012	0.00007	0.0000

Sample ID		Analysis	Analysis	E2-1	E2-2	E2-3	E2-4
		Approval	Approval				
Sample Date/Time		Date	Time	Sep-14	Sep-14	Sep-14	Sep-14
Analysis	Units						
Strontium	mg/L	10-Dec-14	14:36	0.0007	0.0015	0.0009	0.001
Titanium	mg/L	10-Dec-14	14:36	0.0211	0.0497	0.0190	0.025
Thallium	mg/L	10-Dec-14	14:36	0.000008	0.000024	0.000006	0.0000
Uranium	mg/L	10-Dec-14	14:36	0.000156	0.000463	0.000159	0.0002
Vanadium	mg/L	10-Dec-14	14:36	0.00100	0.00251	0.00098	0.0010
Zinc	mg/L	10-Dec-14	14:36	0.002	0.006	0.016	0.006



Report No. CA12185-DEC14
Customer Agnico Eagle Mines Limited
Attention Erika Voyer
Reference Reassay
Title SFE Leach
Final Report

Sample ID		Analysis Approval Date	Analysis Approval Time	E2-1 Sep-14	E2-2 Sep-14	E2-3 Sep-14	E2-4 Sep-14
Sample Date/Time	Units						
Analysis							
Sample weight	g	9-Dec-14	15:59	200	200	200	200
Volume D.I. Water	mL	9-Dec-14	15:59	800	800	800	800
Initial pH		9-Dec-14	15:59	5.69	5.49	5.39	5.60
Final pH		9-Dec-14	15:59	6.58	6.00	6.19	6.70
pH	no unit	11-Dec-14	11:20	8.49	8.84	8.57	9.44
Alkalinity	mg/L as CaCO ₃	11-Dec-14	11:20	33	31	32	32
Conductivity	µS/cm	11-Dec-14	11:20	63	68	72	71
Sulphate	mg/L	10-Dec-14	13:41	< 2	< 2	4.4	< 2
Mercury	mg/L	10-Dec-14	13:48	0.00001	0.00001	0.00001	< 0.000
Silver	mg/L	10-Dec-14	14:36	0.000028	0.000033	0.000034	0.0000
Aluminum	mg/L	10-Dec-14	14:36	0.86	0.73	0.50	0.93
Arsenic	mg/L	10-Dec-14	14:36	0.0020	0.0090	0.0020	0.002
Barium	mg/L	10-Dec-14	14:36	0.00538	0.0179	0.00406	0.0083
Boron	mg/L	10-Dec-14	14:36	0.380	0.441	0.319	0.381
Beryllium	mg/L	10-Dec-14	14:36	0.000026	0.000080	0.000020	0.0000
Bismuth	mg/L	10-Dec-14	14:36	0.000021	0.000161	0.000029	0.0000
Calcium	mg/L	10-Dec-14	14:36	0.16	0.68	0.12	0.30
Cadmium	mg/L	10-Dec-14	14:36	0.000043	0.000008	0.000008	0.0000
Cobalt	mg/L	10-Dec-14	14:36	0.000337	0.00178	0.000380	0.0004
Chromium	mg/L	10-Dec-14	14:36	0.00192	0.00494	0.00157	0.0016
Copper	mg/L	10-Dec-14	14:36	0.00224	0.00639	0.00506	0.0021
Iron	mg/L	10-Dec-14	14:36	0.513	0.877	0.491	0.626
Potassium	mg/L	10-Dec-14	14:36	1.10	1.59	1.57	2.91
Lithium	mg/L	10-Dec-14	14:36	0.000455	0.00227	0.000345	0.0006
Magnesium	mg/L	10-Dec-14	14:36	0.124	0.324	0.076	0.159
Manganese	mg/L	10-Dec-14	14:36	0.0151	0.0590	0.0212	0.0211
Molybdenum	mg/L	10-Dec-14	14:36	0.00081	0.00044	0.00053	0.0008
Sodium	mg/L	10-Dec-14	14:36	12.8	13.5	12.0	13.3
Nickel	mg/L	10-Dec-14	14:36	0.0007	0.0032	0.0010	0.0001
Lead	mg/L	10-Dec-14	14:36	0.00058	0.00279	0.00066	0.0009
Antimony	mg/L	10-Dec-14	14:36	0.0004	0.0004	0.0006	0.0001
Selenium	mg/L	10-Dec-14	14:36	< 0.001	< 0.001	< 0.001	< 0.00
Silicon	mg/L	10-Dec-14	14:36	7.03	7.43	6.07	7.45
Tin	mg/L	10-Dec-14	14:36	0.00007	0.00012	0.00007	0.0000

Sample ID	Sample Date/Time	Analysis	Analysis	E2-1	E2-2	E2-3	E2-4
		Approval	Approval				
Analysis	Units	Date	Time	Sep-14	Sep-14	Sep-14	Sep-14
Strontium	mg/L	10-Dec-14	14:36	0.0007	0.0015	0.0009	0.001
Titanium	mg/L	10-Dec-14	14:36	0.0211	0.0497	0.0190	0.025
Thallium	mg/L	10-Dec-14	14:36	0.000008	0.000024	0.000006	0.0000
Uranium	mg/L	10-Dec-14	14:36	0.000156	0.000463	0.000159	0.0002
Vanadium	mg/L	10-Dec-14	14:36	0.00100	0.00251	0.00098	0.0010
Zinc	mg/L	10-Dec-14	14:36	0.002	0.006	0.016	0.006



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Reference Reassay
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Final Report

Sample ID		Analysis Approval Date	Analysis Approval Time	E2-1 Sep-14	E2-2 Sep-14	E2-3 Sep-14	E2-4 Sep-14
Sample Date/Time	Units						
Analysis							
Sample weight	g	9-Dec-14	15:59	200	200	200	200
Volume D.I. Water	mL	9-Dec-14	15:59	800	800	800	800
Initial pH		9-Dec-14	15:59	5.69	5.49	5.39	5.60
Final pH		9-Dec-14	15:59	6.58	6.00	6.19	6.70
pH	no unit	11-Dec-14	11:20	8.49	8.84	8.57	9.44
Alkalinity	mg/L as CaCO3	11-Dec-14	11:20	33	31	32	32
Conductivity	µS/cm	11-Dec-14	11:20	63	68	72	71
Sulphate	mg/L	10-Dec-14	13:41	< 2	< 2	4.4	< 2
Mercury	mg/L	10-Dec-14	13:48	0.00001	0.00001	0.00001	< 0.000
Silver	mg/L	10-Dec-14	14:36	0.000028	0.000033	0.000034	0.0000
Aluminum	mg/L	10-Dec-14	14:36	0.86	0.73	0.50	0.93
Arsenic	mg/L	10-Dec-14	14:36	0.0020	0.0090	0.0020	0.002
Barium	mg/L	10-Dec-14	14:36	0.00538	0.0179	0.00406	0.0083
Boron	mg/L	10-Dec-14	14:36	0.380	0.441	0.319	0.381
Beryllium	mg/L	10-Dec-14	14:36	0.000026	0.000080	0.000020	0.0000
Bismuth	mg/L	10-Dec-14	14:36	0.000021	0.000161	0.000029	0.0000
Calcium	mg/L	10-Dec-14	14:36	0.16	0.68	0.12	0.30
Cadmium	mg/L	10-Dec-14	14:36	0.000043	0.000008	0.000008	0.0000
Cobalt	mg/L	10-Dec-14	14:36	0.000337	0.00178	0.000380	0.0004
Chromium	mg/L	10-Dec-14	14:36	0.00192	0.00494	0.00157	0.0016
Copper	mg/L	10-Dec-14	14:36	0.00224	0.00639	0.00506	0.0021
Iron	mg/L	10-Dec-14	14:36	0.513	0.877	0.491	0.626
Potassium	mg/L	10-Dec-14	14:36	1.10	1.59	1.57	2.91
Lithium	mg/L	10-Dec-14	14:36	0.000455	0.00227	0.000345	0.0006
Magnesium	mg/L	10-Dec-14	14:36	0.124	0.324	0.076	0.159
Manganese	mg/L	10-Dec-14	14:36	0.0151	0.0590	0.0212	0.0211
Molybdenum	mg/L	10-Dec-14	14:36	0.00081	0.00044	0.00053	0.0008
Sodium	mg/L	10-Dec-14	14:36	12.8	13.5	12.0	13.3
Nickel	mg/L	10-Dec-14	14:36	0.0007	0.0032	0.0010	0.0001
Lead	mg/L	10-Dec-14	14:36	0.00058	0.00279	0.00066	0.0009
Antimony	mg/L	10-Dec-14	14:36	0.0004	0.0004	0.0006	0.0001
Selenium	mg/L	10-Dec-14	14:36	< 0.001	< 0.001	< 0.001	< 0.00
Silicon	mg/L	10-Dec-14	14:36	7.03	7.43	6.07	7.45
Tin	mg/L	10-Dec-14	14:36	0.00007	0.00012	0.00007	0.0000

Sample ID		Analysis	Analysis	E2-1	E2-2	E2-3	E2-4
		Approval	Approval				
Sample Date/Time		Date	Time	Sep-14	Sep-14	Sep-14	Sep-14
Analysis	Units						
Strontium	mg/L	10-Dec-14	14:36	0.0007	0.0015	0.0009	0.001
Titanium	mg/L	10-Dec-14	14:36	0.0211	0.0497	0.0190	0.025
Thallium	mg/L	10-Dec-14	14:36	0.000008	0.000024	0.000006	0.0000
Uranium	mg/L	10-Dec-14	14:36	0.000156	0.000463	0.000159	0.0002
Vanadium	mg/L	10-Dec-14	14:36	0.00100	0.00251	0.00098	0.0010
Zinc	mg/L	10-Dec-14	14:36	0.002	0.006	0.016	0.006



Report No. CA12185-DEC14
Customer Agnico Eagle Mines Limited
Attention Erika Voyer
Reference Reassay
Title SFE Leach
Final Report

Sample ID		Analysis Approval Date	Analysis Approval Time	E2-1 Sep-14	E2-2 Sep-14	E2-3 Sep-14	E2-4 Sep-14
Sample Date/Time	Units						
Analysis							
Sample weight	g	9-Dec-14	15:59	200	200	200	200
Volume D.I. Water	mL	9-Dec-14	15:59	800	800	800	800
Initial pH		9-Dec-14	15:59	5.69	5.49	5.39	5.60
Final pH		9-Dec-14	15:59	6.58	6.00	6.19	6.70
pH	no unit	11-Dec-14	11:20	8.49	8.84	8.57	9.44
Alkalinity	mg/L as CaCO ₃	11-Dec-14	11:20	33	31	32	32
Conductivity	µS/cm	11-Dec-14	11:20	63	68	72	71
Sulphate	mg/L	10-Dec-14	13:41	< 2	< 2	4.4	< 2
Mercury	mg/L	10-Dec-14	13:48	0.00001	0.00001	0.00001	< 0.000
Silver	mg/L	10-Dec-14	14:36	0.000028	0.000033	0.000034	0.0000
Aluminum	mg/L	10-Dec-14	14:36	0.86	0.73	0.50	0.93
Arsenic	mg/L	10-Dec-14	14:36	0.0020	0.0090	0.0020	0.002
Barium	mg/L	10-Dec-14	14:36	0.00538	0.0179	0.00406	0.0083
Boron	mg/L	10-Dec-14	14:36	0.380	0.441	0.319	0.381
Beryllium	mg/L	10-Dec-14	14:36	0.000026	0.000080	0.000020	0.0000
Bismuth	mg/L	10-Dec-14	14:36	0.000021	0.000161	0.000029	0.0000
Calcium	mg/L	10-Dec-14	14:36	0.16	0.68	0.12	0.30
Cadmium	mg/L	10-Dec-14	14:36	0.000043	0.000008	0.000008	0.0000
Cobalt	mg/L	10-Dec-14	14:36	0.000337	0.00178	0.000380	0.0004
Chromium	mg/L	10-Dec-14	14:36	0.00192	0.00494	0.00157	0.0016
Copper	mg/L	10-Dec-14	14:36	0.00224	0.00639	0.00506	0.0021
Iron	mg/L	10-Dec-14	14:36	0.513	0.877	0.491	0.626
Potassium	mg/L	10-Dec-14	14:36	1.10	1.59	1.57	2.91
Lithium	mg/L	10-Dec-14	14:36	0.000455	0.00227	0.000345	0.0006
Magnesium	mg/L	10-Dec-14	14:36	0.124	0.324	0.076	0.159
Manganese	mg/L	10-Dec-14	14:36	0.0151	0.0590	0.0212	0.0211
Molybdenum	mg/L	10-Dec-14	14:36	0.00081	0.00044	0.00053	0.0008
Sodium	mg/L	10-Dec-14	14:36	12.8	13.5	12.0	13.3
Nickel	mg/L	10-Dec-14	14:36	0.0007	0.0032	0.0010	0.0001
Lead	mg/L	10-Dec-14	14:36	0.00058	0.00279	0.00066	0.0009
Antimony	mg/L	10-Dec-14	14:36	0.0004	0.0004	0.0006	0.0001
Selenium	mg/L	10-Dec-14	14:36	< 0.001	< 0.001	< 0.001	< 0.00
Silicon	mg/L	10-Dec-14	14:36	7.03	7.43	6.07	7.45
Tin	mg/L	10-Dec-14	14:36	0.00007	0.00012	0.00007	0.0000

Sample ID		Analysis	Analysis	E2-1	E2-2	E2-3	E2-4
		Approval	Approval				
Sample Date/Time		Date	Time	Sep-14	Sep-14	Sep-14	Sep-14
Analysis	Units						
Strontium	mg/L	10-Dec-14	14:36	0.0007	0.0015	0.0009	0.001
Titanium	mg/L	10-Dec-14	14:36	0.0211	0.0497	0.0190	0.025
Thallium	mg/L	10-Dec-14	14:36	0.000008	0.000024	0.000006	0.0000
Uranium	mg/L	10-Dec-14	14:36	0.000156	0.000463	0.000159	0.0002
Vanadium	mg/L	10-Dec-14	14:36	0.00100	0.00251	0.00098	0.0010
Zinc	mg/L	10-Dec-14	14:36	0.002	0.006	0.016	0.006



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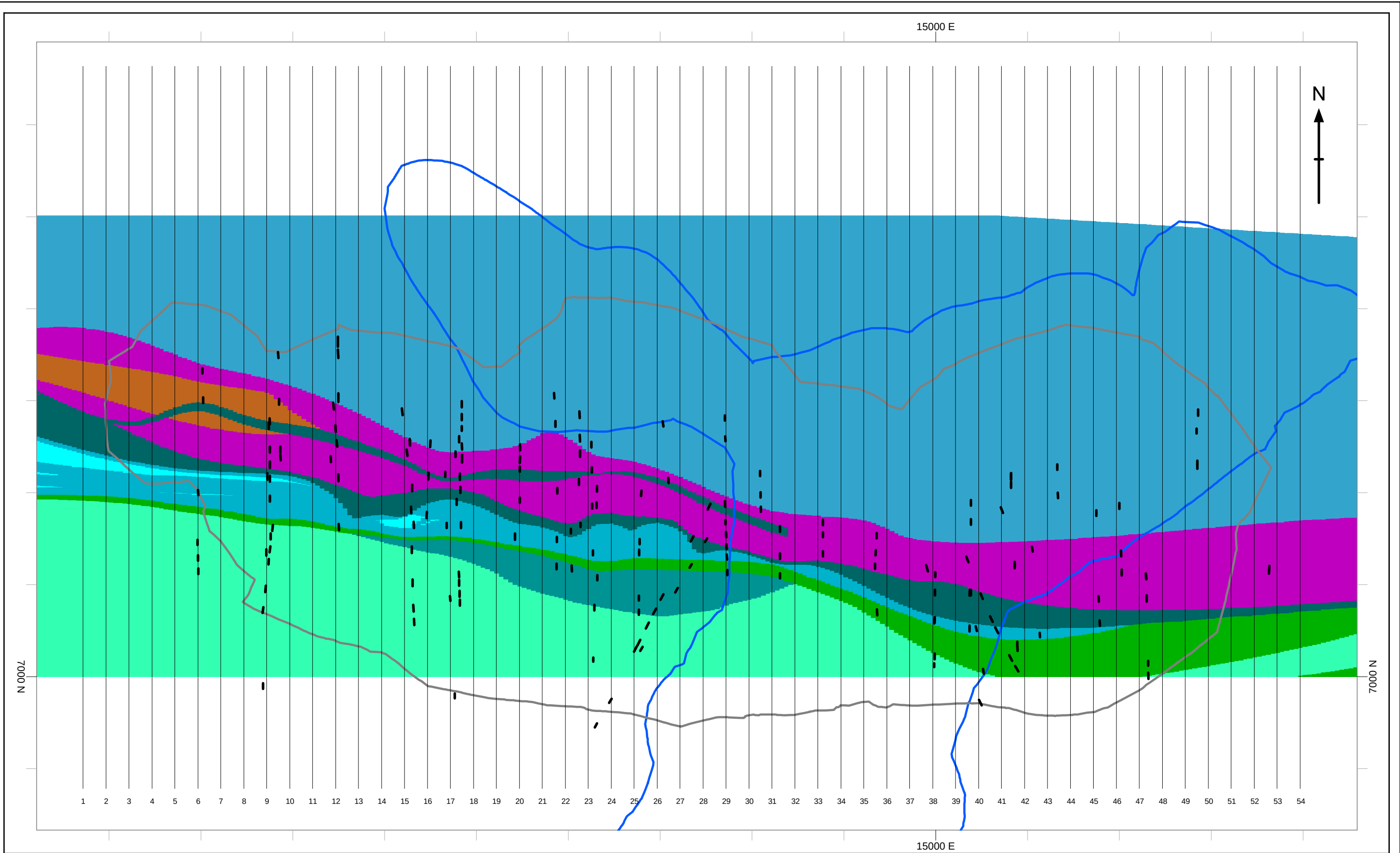
Sample ID		Analysis Approval Date	Analysis Approval Time	E2-1 Sep-14	E2-2 Sep-14	E2-3 Sep-14	E2-4 Sep-14
Sample Date/Time	Units						
Analysis							
Sample weight	g	9-Dec-14	15:59	200	200	200	200
Volume D.I. Water	mL	9-Dec-14	15:59	800	800	800	800
Initial pH		9-Dec-14	15:59	5.69	5.49	5.39	5.60
Final pH		9-Dec-14	15:59	6.58	6.00	6.19	6.70
pH	no unit	11-Dec-14	11:20	8.49	8.84	8.57	9.44
Alkalinity	mg/L as CaCO ₃	11-Dec-14	11:20	33	31	32	32
Conductivity	µS/cm	11-Dec-14	11:20	63	68	72	71
Sulphate	mg/L	10-Dec-14	13:41	< 2	< 2	4.4	< 2
Mercury	mg/L	10-Dec-14	13:48	0.00001	0.00001	0.00001	< 0.000
Silver	mg/L	10-Dec-14	14:36	0.000028	0.000033	0.000034	0.0000
Aluminum	mg/L	10-Dec-14	14:36	0.86	0.73	0.50	0.93
Arsenic	mg/L	10-Dec-14	14:36	0.0020	0.0090	0.0020	0.002
Barium	mg/L	10-Dec-14	14:36	0.00538	0.0179	0.00406	0.0083
Boron	mg/L	10-Dec-14	14:36	0.380	0.441	0.319	0.381
Beryllium	mg/L	10-Dec-14	14:36	0.000026	0.000080	0.000020	0.0000
Bismuth	mg/L	10-Dec-14	14:36	0.000021	0.000161	0.000029	0.0000
Calcium	mg/L	10-Dec-14	14:36	0.16	0.68	0.12	0.30
Cadmium	mg/L	10-Dec-14	14:36	0.000043	0.000008	0.000008	0.0000
Cobalt	mg/L	10-Dec-14	14:36	0.000337	0.00178	0.000380	0.0004
Chromium	mg/L	10-Dec-14	14:36	0.00192	0.00494	0.00157	0.0016
Copper	mg/L	10-Dec-14	14:36	0.00224	0.00639	0.00506	0.0021
Iron	mg/L	10-Dec-14	14:36	0.513	0.877	0.491	0.626
Potassium	mg/L	10-Dec-14	14:36	1.10	1.59	1.57	2.91
Lithium	mg/L	10-Dec-14	14:36	0.000455	0.00227	0.000345	0.0006
Magnesium	mg/L	10-Dec-14	14:36	0.124	0.324	0.076	0.159
Manganese	mg/L	10-Dec-14	14:36	0.0151	0.0590	0.0212	0.0211
Molybdenum	mg/L	10-Dec-14	14:36	0.00081	0.00044	0.00053	0.0008
Sodium	mg/L	10-Dec-14	14:36	12.8	13.5	12.0	13.3
Nickel	mg/L	10-Dec-14	14:36	0.0007	0.0032	0.0010	0.0001
Lead	mg/L	10-Dec-14	14:36	0.00058	0.00279	0.00066	0.0009
Antimony	mg/L	10-Dec-14	14:36	0.0004	0.0004	0.0006	0.0001
Selenium	mg/L	10-Dec-14	14:36	< 0.001	< 0.001	< 0.001	< 0.00
Silicon	mg/L	10-Dec-14	14:36	7.03	7.43	6.07	7.45
Tin	mg/L	10-Dec-14	14:36	0.00007	0.00012	0.00007	0.0000

Sample ID		Analysis	Analysis	E2-1	E2-2	E2-3	E2-4
		Approval	Approval				
Sample Date/Time		Date	Time	Sep-14	Sep-14	Sep-14	Sep-14
Analysis	Units						
Strontium	mg/L	10-Dec-14	14:36	0.0007	0.0015	0.0009	0.001
Titanium	mg/L	10-Dec-14	14:36	0.0211	0.0497	0.0190	0.025
Thallium	mg/L	10-Dec-14	14:36	0.000008	0.000024	0.000006	0.0000
Uranium	mg/L	10-Dec-14	14:36	0.000156	0.000463	0.000159	0.0002
Vanadium	mg/L	10-Dec-14	14:36	0.00100	0.00251	0.00098	0.0010
Zinc	mg/L	10-Dec-14	14:36	0.002	0.006	0.016	0.006



APPENDIX B

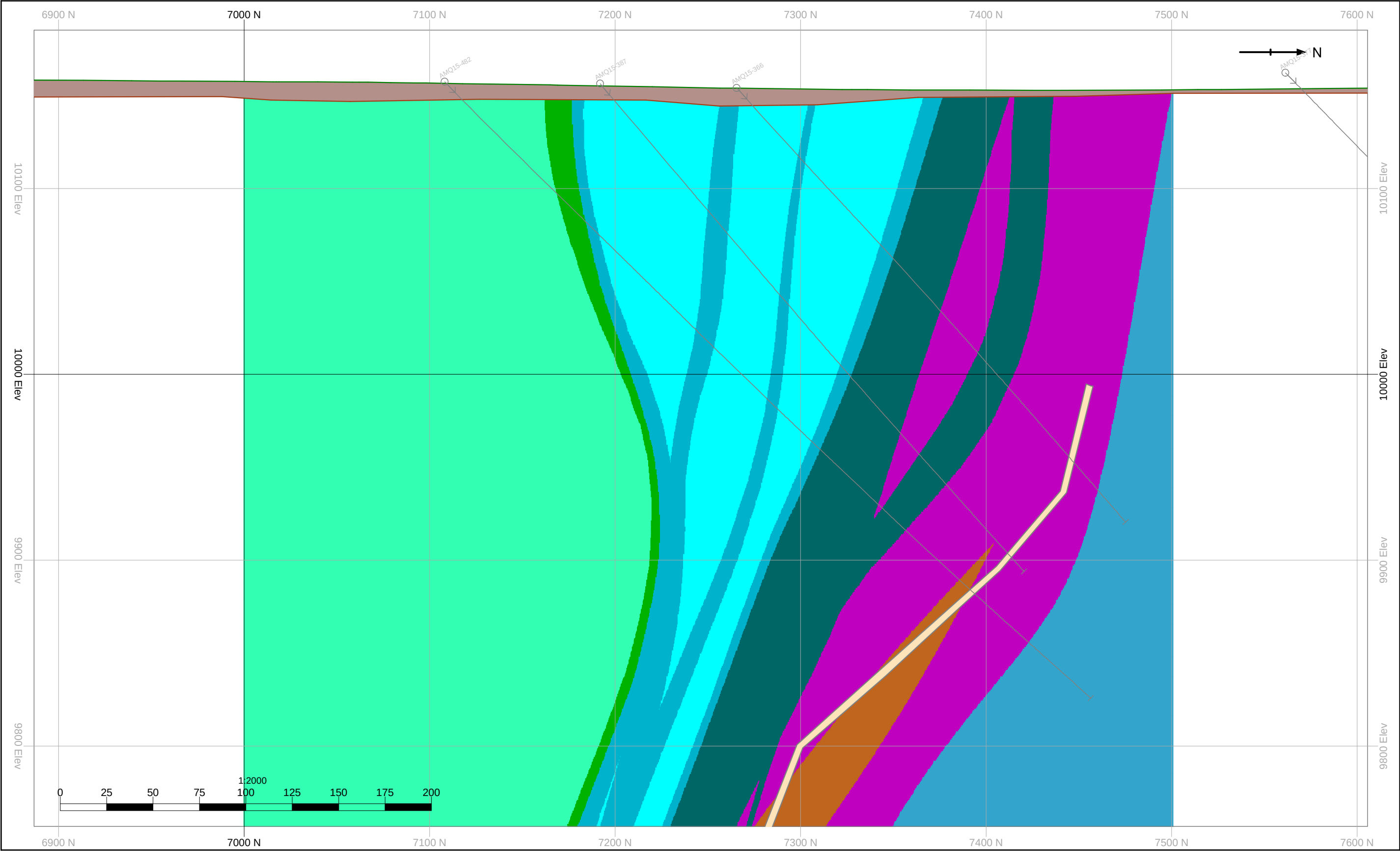
Cross-sections



WT Legend		
[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail Plan Projection		
Scale 1:4000	Date: 07/10/15	Drawn By: Christopher L.Roulier

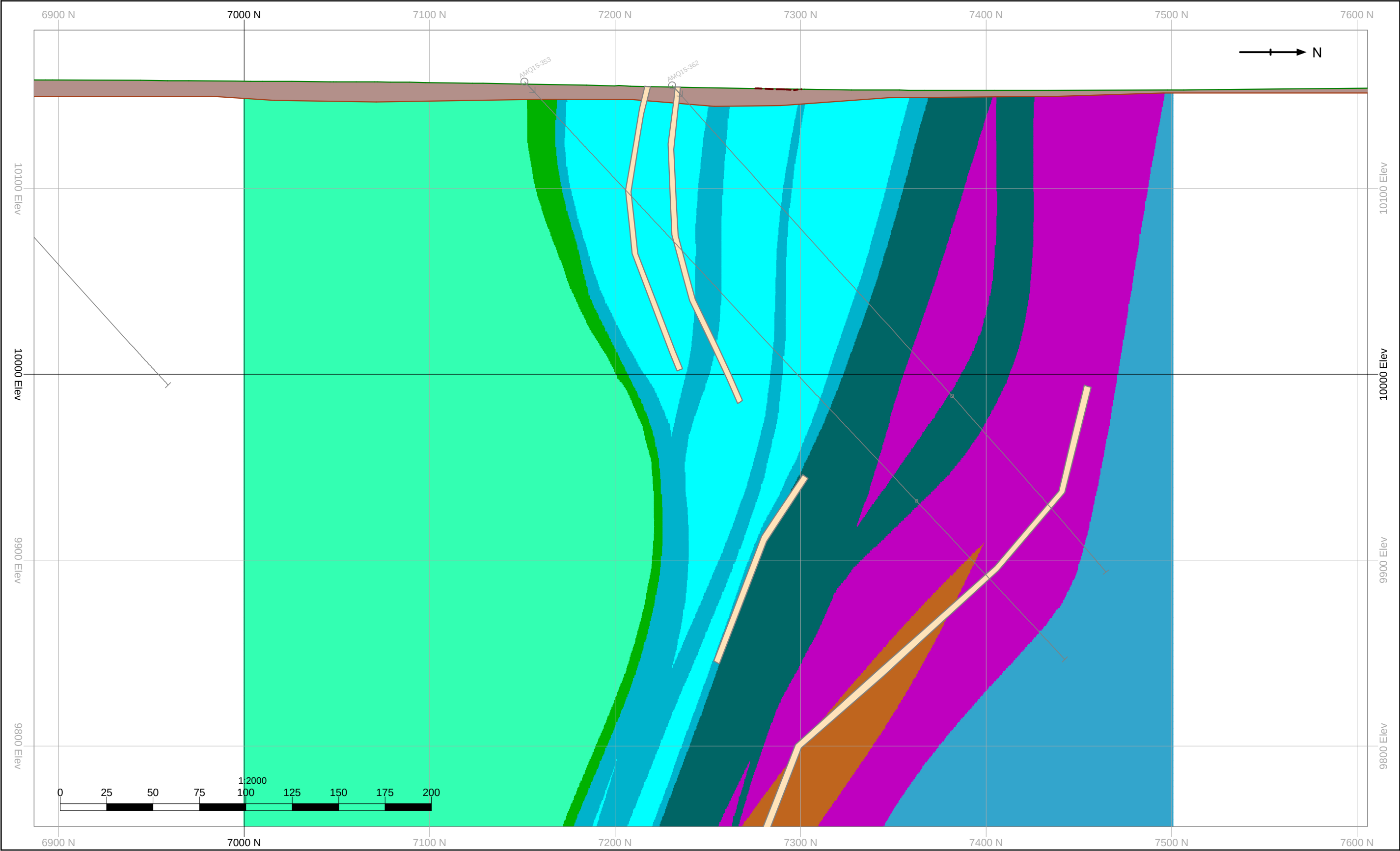




WT Legend		
[MINERALIZED_ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection		
Section Easting: 14072	Section Northing: 7246.25	Section Elevation: 9971
Section 1 of 54		(+ / -) 12.5m
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

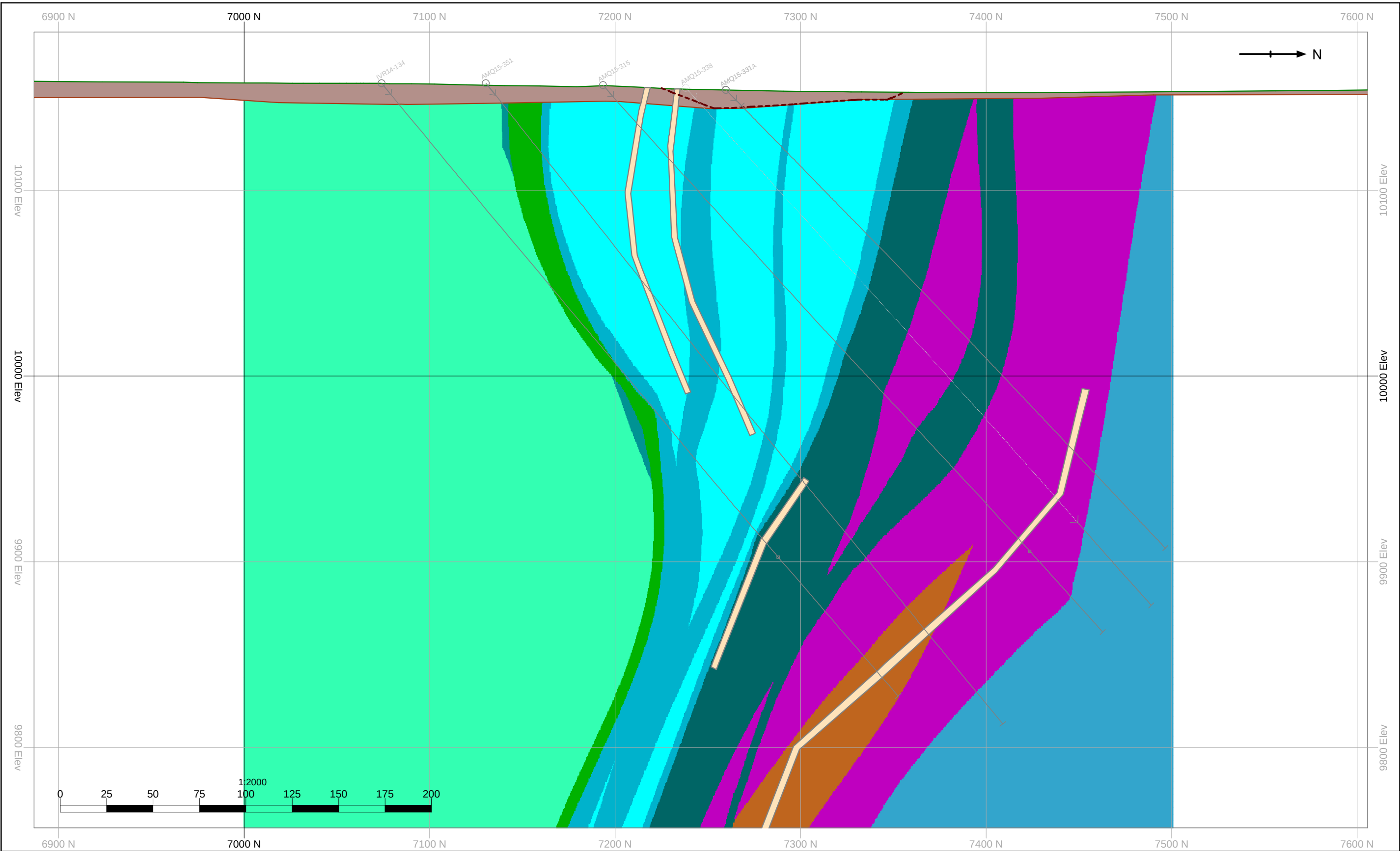




WT Legend		
[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection		
Section Easting: 14097	Section Northing: 7246.25	Section Elevation: 9971
Section 2 of 54		(+ / -) 12.5m
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

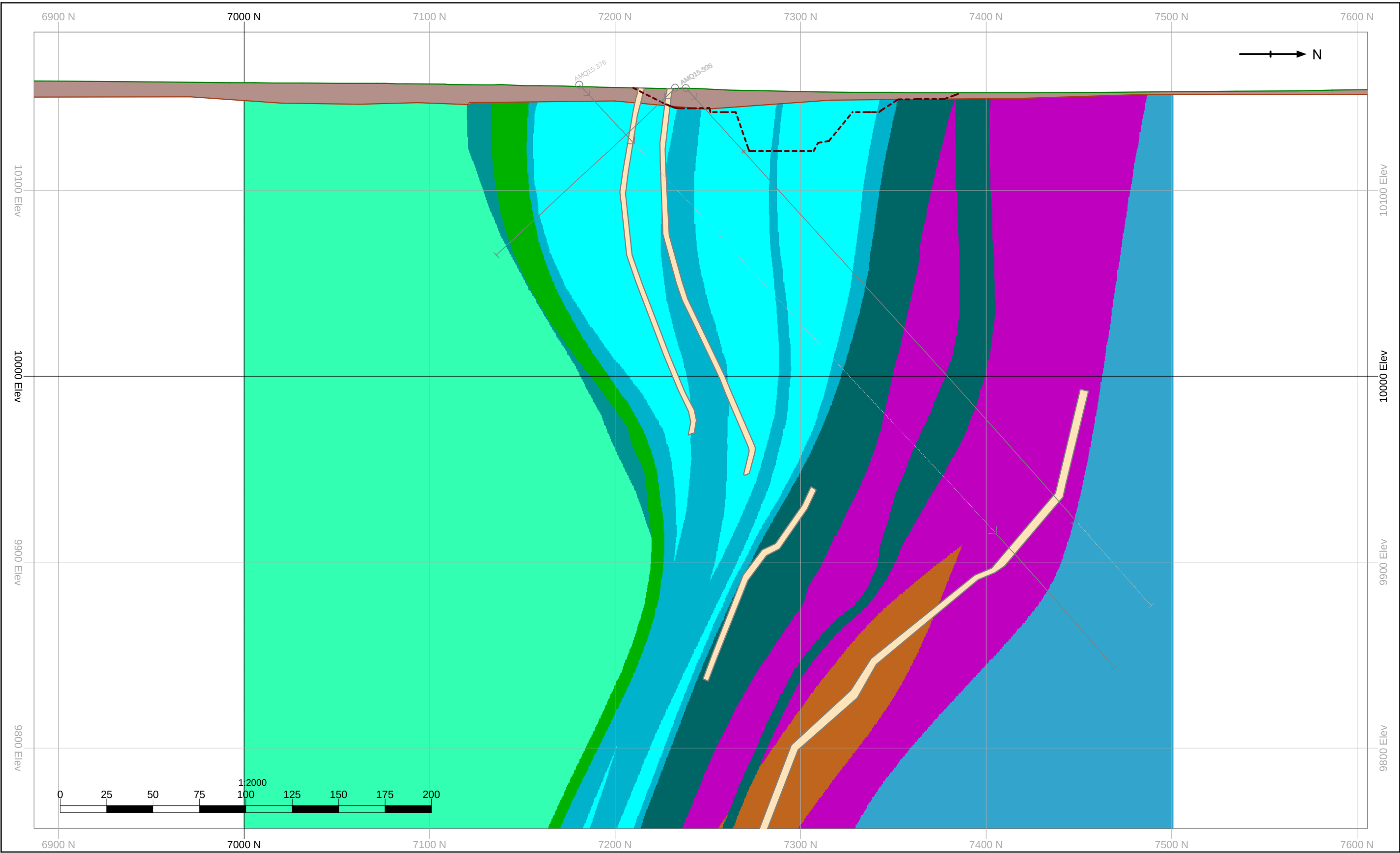




WT Legend		
[MINERALIZED_ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection		
Section Easting: 14122	Section Northing: 7246.25	Section Elevation: 9971
Section 3 of 54		(+ / -) 12.5m
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

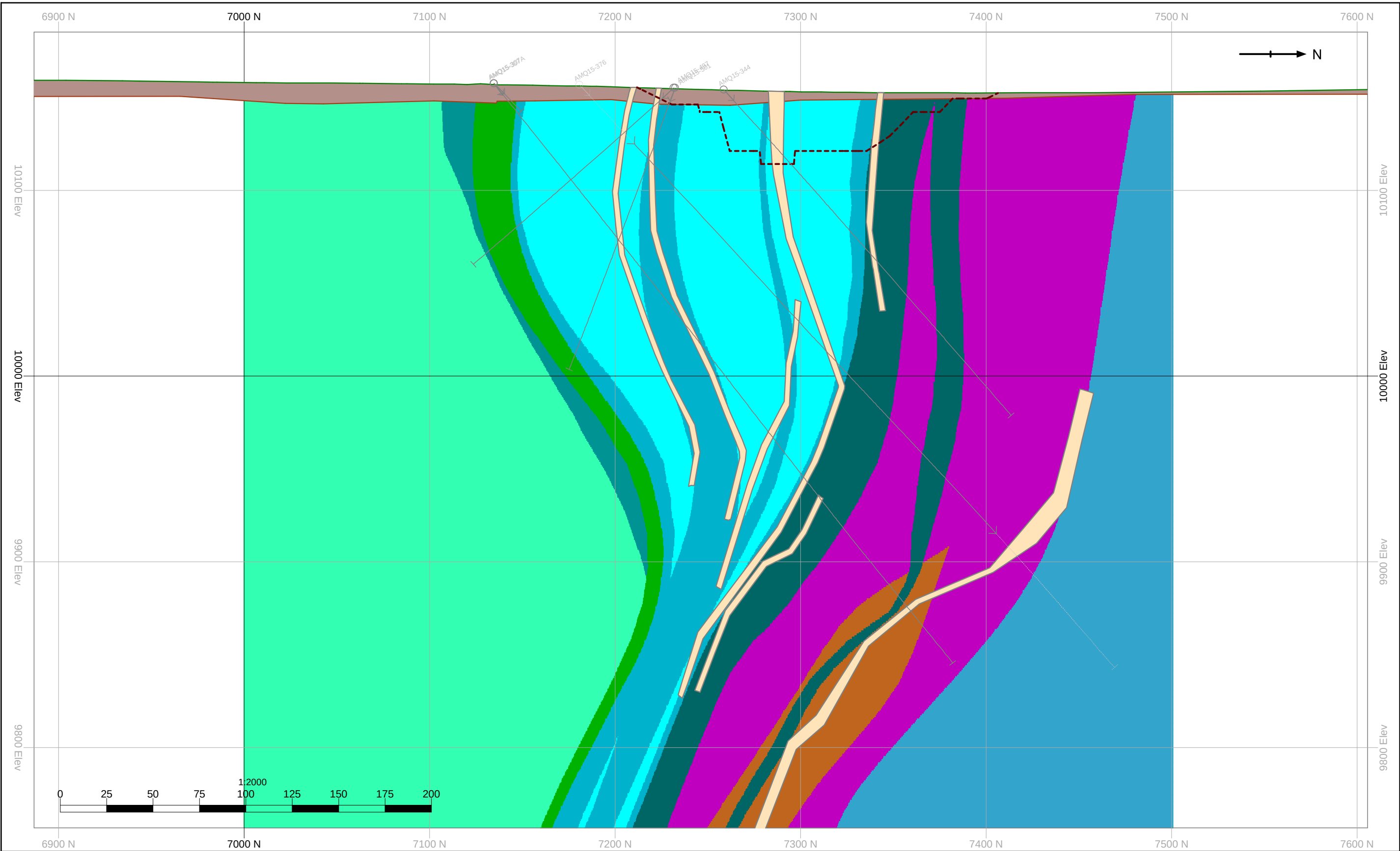




WT Legend		
[MINERALIZED_ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I1]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection		
Section Easting: 14147	Section Northing: 7246.25	Section Elevation: 9971
Section 4 of 54		(+ / -) 12.5m
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

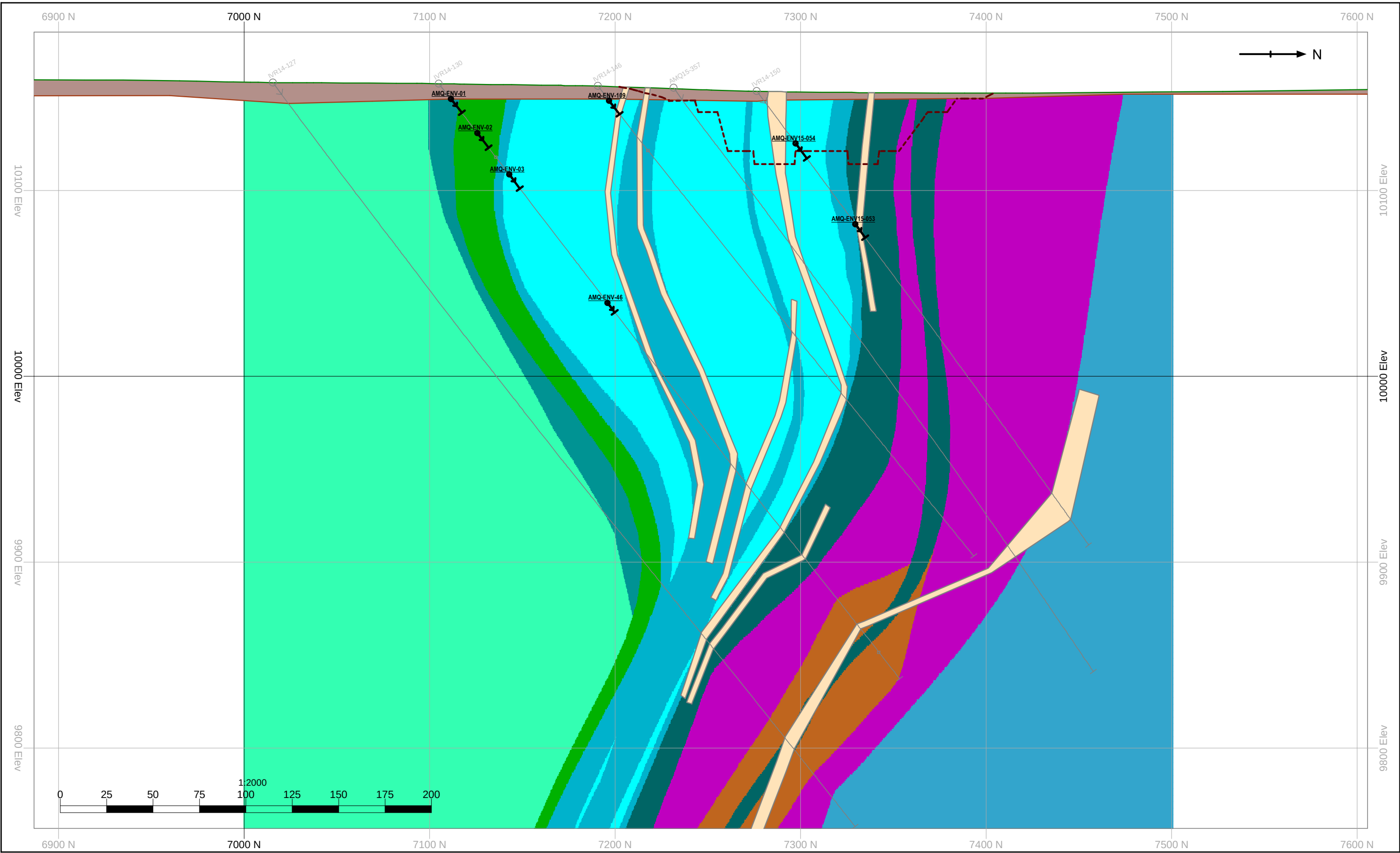




WT Legend		
[MINERALIZED_ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection		
Section Easting: 14172	Section Northing: 7246.25	Section Elevation: 9971
Section 5 of 54		(+ / -) 12.5m
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

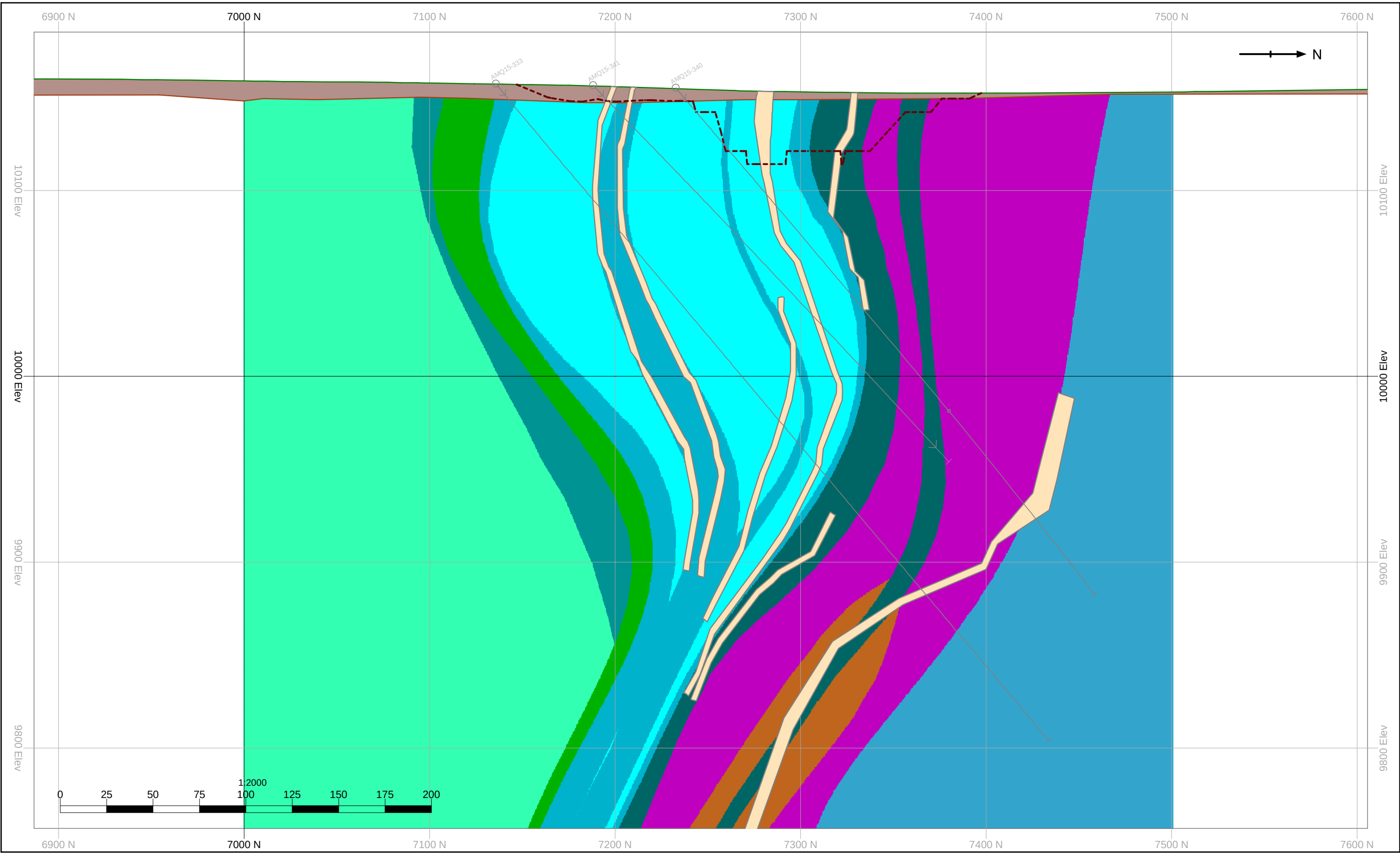




WT Legend		
[MINERALIZED_ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection		
Section Easting: 14197	Section Northing: 7246.25	Section Elevation: 9971
Section 6 of 54		(+ / -) 12.5m
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

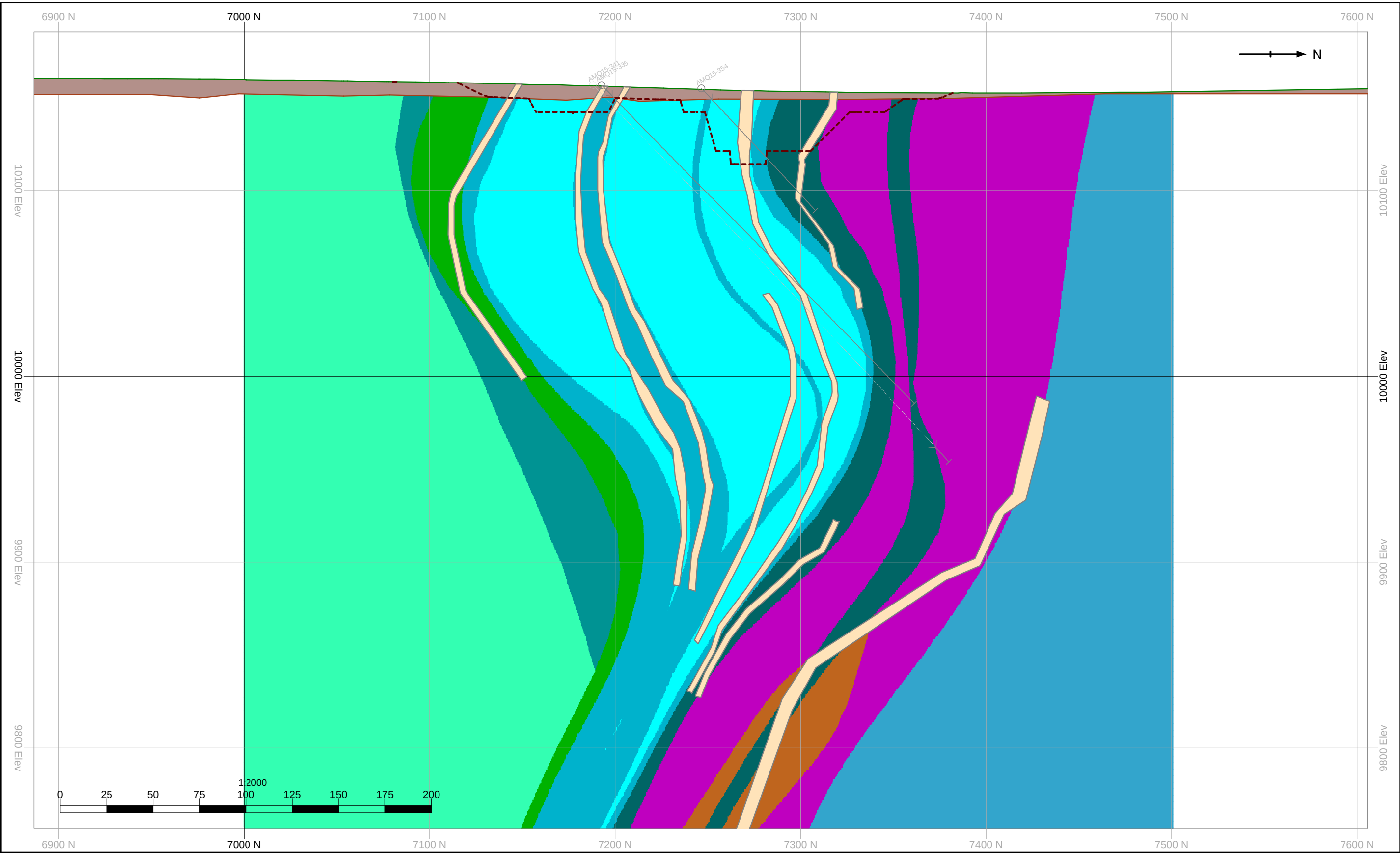




WT Legend		
[MINERALIZED_ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection		
Section Easting: 14222	Section Northing: 7246.25	Section Elevation: 9971
Section 7 of 54		(+ / -) 12.5m
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

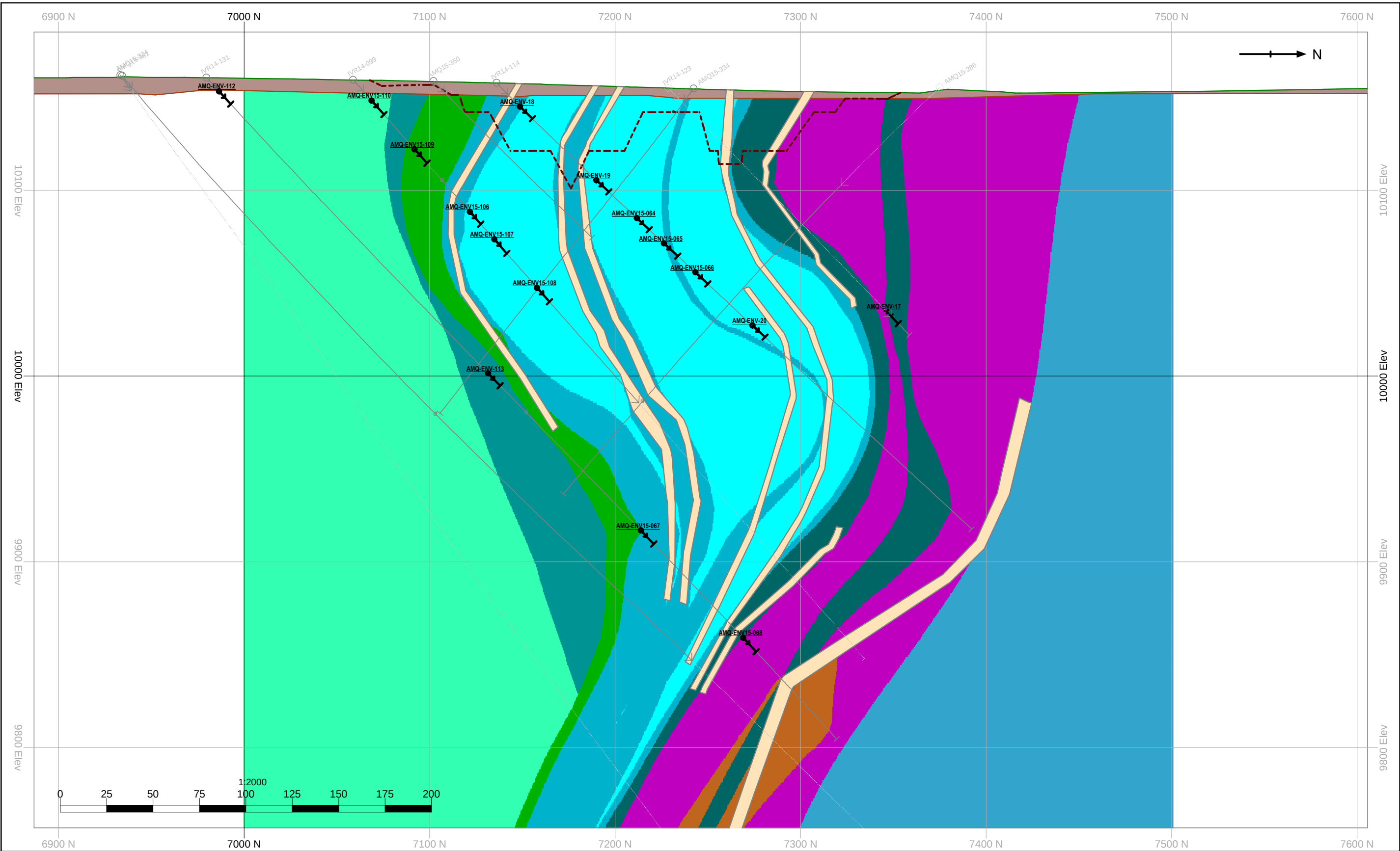




WT Legend		
[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection		
Section Easting: 14247	Section Northing: 7246.25	Section Elevation: 9971
Section 8 of 54		(+ / -) 12.5m
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier





WT Legend		
[MINERALIZED ZONE]	[TOPO]	[LAKE]
[OVB]	[PIT]	[I1 & I2]
[I3]	[S3N]	[S3C]
[S3S]	[S10E]	[V3]
[V3F]	[V3 & V4]	[V4A]

Whale Tail South North Projection		
Section Easting: 14272	Section Northing: 7246.25	Section Elevation: 9971
Section 9 of 54		(+ / -) 12.5m
Scale 1:2000	Date: 07/10/15	Drawn By: Christopher L.Roulier

