

Appendix F-1
Kinetic Testing Results
Waste Rock, Ore, and Tailings
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria¹	Vault Effluent Criteria²	Humidity Cell Test Cycle - AMQ-ENV15-133									Humidity Cell Test Cycle - AMQ-ENV15-144 Ore (SE9 and 0b)										
					Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9
PHYSICAL TESTS																								
Leachate Volume Added		mL			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
Leachate Volume Recovered		mL			902	1000	1000	993	998	988	983	998	995	991	904	924	934	933	1014	1011	936	969	970	948
pH		-	6.0 - 9.0	6.0 - 9.0	7.5	7.4	7.4	7.4	7.1	7.5	7.3	7.3	7.3	7.1	8.6	8.2	8.0	8.0	7.8	7.5	7.9	7.9	7.7	7.7
Conductivity		µS/cm			256	192	101	84	61	53	56	68	73	82	73	61	54	49	48	40	38	40	38	37
ANIONS & NUTRIENTS																								
Acidity		as CaCO3	mg/L		2.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	
Alkalinity		as CaCO4	mg/L		12	10	11	10	8.0	10.0	7	7	6	6.0	24	17	17	15	16	14	12	11	11	10.0
Chloride		Cl	mg/L	1000	500	13	7.0	1.0	1.0	< 1	< 1	---	---	---	8.0	6.0	5.0	4.0	3.0	1.0	---	---	---	---
Fluoride		Fe	mg/L		< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	---	---	---	---	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	---	---	---	---
Phosphorus		P	mg/L	1	0.0040	0.010	0.012	0.010	0.0040	0.0090	---	---	---	---	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	---	---	---	---
Sulphate		SO4	mg/L		81	57	25	19	12	10	13	16	20	25	3.0	2.0	2.0	2.0	2.0	3.0	3	3	3	3
Nitrate (as N)		as N	mg/L	20	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nitrite (as N)		as N	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NH3+NH4		mg/L	16	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanate		OCN	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (total)		CN	mg/L	0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (WAD)		CN	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thiocyanate		SCN	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DISSOLVED METALS																								
Aluminum		Al	mg/L	1	1	0.010	0.0080	0.011	0.011	0.0070	0.0120	---	---	---	0.079	0.073	0.075	0.092	0.042	0.058	---	---	---	---
Antimony		Sb	mg/L		0.00080	0.0012	0.0012	0.0011	0.00070	0.00070	---	---	---	---	0.0099	0.0065	0.0048	0.0040	0.0058	0.0047	---	---	---	---
Arsenic		As	mg/L	0.3	0.1	0.0091	0.015	0.021	0.022	0.015	0.017	---	---	---	0.46	0.44	0.26	0.21	0.15	0.14	---	---	---	---
Barium		Ba	mg/L		0.0077	0.0033	0.0014	0.00097	0.00090	0.00074	---	---	---	---	0.00087	0.00073	0.00081	0.00082	0.0012	0.0014	---	---	---	---
Beryllium		Be	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	---	---	---	---
Bismuth		Bi	mg/L		< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	---	0.0000080	< 0.000007	< 0.000007	0.0000080	0.0000070	< 0.000007	---	---	---	---
Boron		B	mg/L		0.039	0.062	0.055	0.046	0.021	0.030	---	---	---	---	0.047	0.037	0.030	0.024	0.020	0.021	---	---	---	---
Bromide		Br	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cadmium		Cd	mg/L	0.002	0.002	0.000015	0.000027	0.000021	0.000018	0.0000040	0.0000040	---	---	---	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	---	---	---	---
Calcium		Ca	mg/L		14	6.9	3.0	2.6	2.2	2.4	2.7	3.8	4.7	5.5	3.0	2.3	2.4	2.4	2.8	3.4	3.1	3.9	3.6	3.5
Chromium		Cr	mg/L		< 0.00003	< 0.00003	< 0.00003	< 0.00003	< 0.00003	< 0.00003	---	---	---	---	0.00034	0.000090	0.000070	0.000070	< 0.00003	< 0.00003	---	---	---	---
Chromium VI		Cr(VI)	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt		Co	mg/L		0.00041	0.00038	0.00021	0.00010	0.00012	0.00010	---	---	---	---	0.00015	0.000022	0.000024	0.000018	0.000026	0.000034	---	---	---	---
Copper		Cu	mg/L	0.1	0.1	0.00027	0.00040	0.00034	0.00041	0.00028	0.00043	---	---	---	0.00024	0.00040	0.00047	0.00043	0.00013	0.00030	---	---	---	---
Iron		Fe	mg/L		0.018	0.0080	< 0.007	0.019	< 0.007	< 0.007	---	---	---	---	0.026	0.011	< 0.007	< 0.007	< 0.007	< 0.007	---	---	---	---
Lead		Pb	mg/L	0.1	0.1	< 0.00001	0.000030	< 0.00001	< 0.00001	< 0.00001	0.00001	---	---	---	0.000020	0.000010	< 0.00001	< 0.00001	< 0.00001	< 0.00001	---	---	---	---
Lithium		Li	mg/L		0.0013	0.00082	0.00050	0.00042	0.00025	0.00035	---	---	---	---	0.00052	0.00056	0.00058	0.00067	0.00062	0.00085	---	---	---	---
Magnesium		Mg	mg/L		3.0	2.1	0.79	0.59	0.48	0.49	---	---	---	---	0.21	0.19	0.18	0.20	0.25	0.28	---	---	---	---
Manganese		Mn	mg/L		0.057	0.021	0.0089	0.0063	0.0077	0.0061	---	---	---	---	0.010	0.015	0.017	0.015	0.024	0.026	---	---	---	---
Mercury		Hg	mg/L	0.0004	0.0004	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	---	---	---	---
Molybdenum		Mo	mg/L		0.044	0.087	0.078	0.051	0.031	0.026	---	---	---	---	0.0046	0.0090	0.0018	0.0010	0.0011	0.00079	---	---	---	---
Nickel		Ni	mg/L	0.2	0.2	0.0060	0.0057	0.0025	0.0015	0.0016	0.0011	---	---	---	0.0015	0.00070	0.00040	0.00020	0.00050	0.00050	---	---	---	---
Potassium		K	mg/L		37	30	17	13	9.6	9.7	---	---	---	---	3.9	2.6	2.5	2.6	2.5	2.6	---	---	---	---
Selenium		Se	mg/L		0.00043	0.00040	0.00020	0.00018	0.000080	0.000120	---	---	---	---	0.00018	0.00018	0.00024	0.00015	0.000060	0.000090	---	---	---	---
Silicon		Si	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver		Au	mg/L		0.000011	0.0000030	< 0.000002	< 0.000002	< 0.000002	< 0.000002	---	---	---	---	0.000016	0.00013	0.00010	0.000054	0.000025	0.0000080	---	---	---	---
Sodium		Na	mg/L		4.7	4.7	2.4	1.6	1.0	1.0	---	---	---	---	9.4	7.3	5.7	4.9	4.5	3.7	---	---	---	---
Strontium		Sr	mg/L		0.032	0.014	0.0066	0.0050	0.0045	0.0041	---	---	---	---	0.026	0.019	0.019	0.019	0.024	0.023	---	---	---	---
Thallium		Th	mg/L		0.000011	0.0000060	0.0000090	< 0.000005	< 0.000005	< 0.000005	---	---	---	---	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	---	---	---	---
Tin		Sn	mg/L		0.00015	0.000090	0.00012	0.0025	0.00012	0.00020	---	---	---	---	0.00020	0.00013	0.00014	0.00017	0.00017	0.00015	---	---	---	---
Titanium		Ti	mg/L		0.00010	< 0.00005	< 0.00005	0.000070	< 0.00005	< 0.00005	---	---	---	---	0.00046	0.00014	0.000080	0.00015	< 0.00005	0.000050	---	---	---	---
Uranium		U	mg/L		0.00039	0.00068	0.00043	0.00038	0.00046	0.00033	---	---	---	---	0.000026	0.000085	0.000043	0.000038	0.000063	0.000085	---	---	---	---
Vanadium		V	mg/L		0.0083	0.012	0.016	0.015	0.010	0.011	---	---	---	---	0.0018	0.0016	0.0012	0.0011	0.00065	0.00060	---	---	---	---
Zinc		Zn	mg/L	0.4	0.2	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	---	---	---	---	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	---	---	---	---

Notes:
1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.
2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

1.0	Exceeds the Portage Effluent Guideline.
1.0	Result exceeds the Vault Effluent Guideline.
1.0	Exceeds Portage and Vault Effluent Guidelines.

Appendix F-1
Kinetic Testing Results
Waste Rock, Ore, and Tailings
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria ¹	Vault Effluent Criteria ²	Humidity Cell Test Cycle - Ore Composite																									
					Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25
PHYSICAL TESTS																														
Leachate Volume Added		mL			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
Leachate Volume Recovered		mL			902	940	963	1008	1012	986	997	946	938	939	961	936	957	963	967	965	957	948	962	957	1011	998	985	992	995	981
pH		-	6.0 - 9.0	6.0 - 9.0	7.2	7.4	7.3	7.5	7.1	7.5	7.2	7.2	6.8	6.9	6.7	6.9	7.1	6.5	6.8	7.0	7.1	7.0	6.9	6.9	6.8	6.8	6.8	6.9	7.0	6.7
Conductivity		µS/cm			187	147	93	94	77	77	69	80	86	79	88	89	103	97	90	101	83	88	94	106	103	80	90	93	90	87
ANIONS & NUTRIENTS																														
Acidity		as CaCO3	mg/L		11	9.0	14	8.0	5.0	4.0	4.0	5.0	7.0	6.0	14	10	18	15	14	15	17	12	15	15	18	18	16	17	15	15
Alkalinity		as CaCO4	mg/L		12	10	9.0	11	9.0	8.0	8.0	8.0	7.0	6.0	6.0	7.0	5.0	6.0	5.0	6.0	5.0	4.0	5.0	5.0	5.0	4.0	4.0	4.0	4.0	4.0
Chloride		Cl	mg/L	1000	500	11	9.0	8.0	8.0	6.0	5.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	7
Fluoride		Fe	mg/L		< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	0.28	---	---	---	---	< 0.06	---	---	---	---	< 0.06	---	---	---	---	< 0.06	---	---	---	---	< 0.06
Phosphorus		P	mg/L	1	1.5	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	---	---	---	---	< 0.003	---	---	---	---	< 0.003	---	---	---	---	< 0.003	---	---	---	---	< 0.003
Sulphate		SO4	mg/L		57	42	21	18	17	16	17	15	21	20	24	22	29	26	24	27	24	25	23	27	30	25	26	27	25	25
Nitrate (as N)		as N	mg/L	20	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nitrite (as N)		as N	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NH3+NH4		mg/L	16	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanate		OCN	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (total)		CN	mg/L	0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (WAD)		CN	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thiocyanate		SCN	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DISSOLVED METALS																														
Aluminum		Al	mg/L	1	1	0.031	0.028	0.022	0.025	0.024	0.022	---	---	---	---	0.013	---	---	---	---	0.0090	---	---	---	---	0.014	---	---	---	0.011
Antimony		Sb	mg/L			0.0028	0.0029	0.0023	0.0025	0.0015	0.0018	---	---	---	---	0.0011	---	---	---	---	0.00060	---	---	---	0.00060	---	---	---	---	0.0006
Arsenic		As	mg/L	0.3	0.1	0.095	0.15	0.091	0.11	0.078	0.075	---	---	---	---	0.032	---	---	---	---	0.023	---	---	---	0.016	---	---	---	---	0.0221
Barium		Ba	mg/L			0.0093	0.0071	0.0047	0.0043	0.0044	0.0044	---	---	---	---	0.0085	---	---	---	---	0.0092	---	---	---	0.0099	---	---	---	---	0.00858
Beryllium		Be	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.0000090	0.0000080	---	---	---	---	0.0000080	---	---	---	---	< 0.000007	---	---	---	0.000013	---	---	---	---	0.000013
Bismuth		Bi	mg/L			0.000023	0.000032	< 0.000007	0.000037	0.000020	< 0.000007	---	---	---	---	0.000026	---	---	---	---	0.000013	---	---	---	0.0000070	---	---	---	---	< 0.000007
Boron		B	mg/L			0.0071	0.0058	0.086	0.0047	0.0036	0.0058	---	---	---	---	< 0.0002	---	---	---	---	0.0097	---	---	---	< 0.002	---	---	---	---	< 0.002
Bromide		Br	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cadmium		Cd	mg/L	0.002	0.002	< 0.000003	< 0.000003	0.000023	< 0.000003	0.0000050	< 0.000003	---	---	---	---	0.000010	---	---	---	---	< 0.000003	---	---	---	0.0000030	---	---	---	---	< 0.000003
Calcium		Ca	mg/L			16	16	8.9	8.7	7.1	6.8	7.6	7.9	9.6	9.0	11	9.5	12	9.2	9.1	11	9.1	9.6	9.9	11	11	10.5	11	9.9	8.8
Chromium		Cr	mg/L			< 0.00003	0.000060	0.00018	0.000030	< 0.00003	< 0.00003	---	---	---	---	0.000040	---	---	---	---	< 0.00003	---	---	---	< 0.00003	---	---	---	---	< 0.00003
Chromium VI		Cr(VI)	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt		Co	mg/L			0.00030	0.00026	0.00029	0.00018	0.00021	0.00019	---	---	---	---	0.00049	---	---	---	---	0.00071	---	---	---	0.0012	---	---	---	---	0.00131
Copper		Cu	mg/L	0.1	0.1	0.00033	0.00033	0.00048	0.00037	0.00039	0.00040	---	---	---	---	0.00040	---	---	---	---	0.000070	---	---	---	0.00066	---	---	---	---	0.00042
Iron		Fe	mg/L			< 0.007	< 0.007	0.010	< 0.007	0.024	0.025	---	---	---	< 0.007	< 0.007	---	---	---	0.061	---	---	---	0.21	---	---	---	---	0.38	
Lead		Pb	mg/L	0.1	0.1	< 0.00001	0.00014	0.00058	< 0.00001	0.000030	< 0.00001	---	---	---	< 0.00001	< 0.00001	---	---	---	< 0.00001	---	---	---	0.000010	---	---	---	---	0.00001	
Lithium		Li	mg/L			0.0024	0.0022	0.0015	0.0016	0.0014	0.0014	---	---	---	0.0018	---	---	---	---	0.0019	0.0018	---	---	---	0.0017	---	---	---	---	0.00165
Magnesium		Mg	mg/L			4.8	3.0	2.1	2.1	1.9	1.7	---	---	---	---	1.6	---	---	---	---	1.6	---	---	---	1.8	---	---	---	---	1.52
Manganese		Mn	mg/L			0.096	0.073	0.063	0.069	0.070	0.067	---	---	---	---	0.11	---	---	---	---	0.12	---	---	---	0.16	---	---	---	---	0.14
Mercury		Hg	mg/L	0.0004	0.0004	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	---	< 0.00001
Molybdenum		Mo	mg/L			0.00056	0.00060	0.026	0.00033	0.00024	0.00014	---	---	---	---	0.00024	---	---	---	---	0.00062	---	---	---	0.00084	---	---	---	---	0.00002
Nickel		Ni	mg/L	0.2	0.2	0.014	0.0070	0.0040	0.0047	0.0043	0.0042	---	---	---	---	0.011	---	---	---	---	0.018	---	---	---	0.028	---	---	---	---	0.0507
Potassium		K	mg/L			12	7.9	5.7	6.1	4.7	4.6	---	---	---	---	4.4	---	---	---	---	4.5	---	---	---	4.4	---	---	---	---	3.12
Selenium		Se	mg/L			0.00028	0.00020	0.00018	0.00023	< 0.001	< 0.001	---	---	---	---	0.00020	---	---	---	---	0.00015	---	---	---	0.00013	---	---	---	---	0.0001
Silicon		Si	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver		Au	mg/L			0.000097	0.000029	0.000017	0.000031	0.000029	0.000016	---	---	---	---	0.000038	---	---	---	---	0.000028	---	---	---	0.000031	---	---	---	---	0.000063
Sodium		Na	mg/L			1.0	0.62	0.39	0.39	0.30	0.25	---	---	---	---	0.090	---	---	---	---	0.090	---	---	---	0.060	---	---	---	---	0.04
Strontium		Sr	mg/L			0.073	0.060	0.033	0.030	0.028	0.026	---	---	---	---	0.028	---	---	---	---	0.024	---	---	---	0.025	---	---	---	---	0.0198
Thallium		Th	mg/L			0.000010	0.0000060	0.00086	0.000012	< 0.000005	< 0.000005	---	---	---	< 0.000005	---	---	---												

Appendix F-1
Kinetic Testing Results
Waste Rock, Ore, and Tailings
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria ¹	Vault Effluent Criteria ²	Humidity Cell Test Cycle - RE-13872/RE-13874 Tailings																			
					Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19
PHYSICAL TESTS																								
Leachate Volume Added		mL			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
Leachate Volume Recovered		mL			830	1015	1003	1006	998	1005	1002	1004	969	950	971	882	996	1016	1020	1018	1013	1038	850	1000
pH		-	6.0 - 9.0	6.0 - 9.0	8.1	7.9	7.8	7.0	7.0	7.2	7.1	7.2	7.2	7.2	7.3	7.3	7.6	7.4	7.3	7.3	7.4	7.3	7.5	7.6
Conductivity		µS/cm			1410	1250	1350	1030	663	681	692	631	629	456	466	298	427	456	282	320	304	219	240	321
ANIONS & NUTRIENTS																								
Acidity		as CaCO3	mg/L		< 2	44	112	232	201	296	331	301	256	186	121	25	10	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity		as CaCO4	mg/L		40	25	22	11	10	8.0	7.0	7.0	7.0	7.0	11	9.0	16	10	10	9.0	10	11	10	13
Chloride		Cl	mg/L	1000	500	29	86	120	210	160	210	---	---	---	< 0.2	---	---	---	---	< 1	---	---	---	---
Fluoride		Fe	mg/L		< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	---	---	---	---	< 0.06	---	---	---	---	< 0.06	---	---	---	---
Phosphorus		P	mg/L	1	1.5	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	---	---	---	---	< 0.003	---	---	---	---	< 0.003	---	---	---	---
Sulphate		SO4	mg/L		620	570	550	370	190	130	150	150	170	140	140	100	170	200	100	130	120	85	96	130
Nitrate (as N)		as N	mg/L	20	50	0.42	0.24	0.20	0.10	< 0.06	< 0.06	---	---	---	< 0.06	---	---	---	---	< 0.06	---	---	---	---
Nitrite (as N)		as N	mg/L		< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	---	---	---	---	< 0.03	---	---	---	---	< 0.03	---	---	---	---
NH3+NH4			mg/L	16	20	4.1	2.4	1.8	0.70	0.30	0.20	---	---	---	0.20	---	---	---	---	0.20	---	---	---	---
Cyanate		OCN	mg/L		10	5.9	4.4	1.4	< 1	< 1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (total)		CN	mg/L	0.5	0.62	0.12	0.10	0.060	0.030	0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (WAD)		CN	mg/L		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thiocyanate		SCN	mg/L		27	17	16	8.6	3.5	2.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DISSOLVED METALS																								
Aluminum		Al	mg/L	1	1	0.024	0.014	0.015	0.0077	0.0067	0.0060	---	---	---	0.0050	---	---	---	---	0.0060	---	---	---	---
Antimony		Sb	mg/L			0.0016	0.0010	0.0011	0.00090	0.0010	0.00090	---	---	---	0.00070	---	---	---	---	0.00080	---	---	---	---
Arsenic		As	mg/L	0.3	0.1	0.043	0.037	0.037	0.028	0.030	0.026	---	---	---	0.031	---	---	---	---	0.048	---	---	---	---
Barium		Ba	mg/L			0.0068	0.0073	0.0088	0.0095	0.0082	0.0087	---	---	---	0.0071	---	---	---	---	0.0066	---	---	---	---
Beryllium		Be	mg/L		< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	---	---	---	---
Bismuth		Bi	mg/L		0.0000080	0.000016	0.00081	< 0.000007	< 0.000007	0.000012	---	---	---	---	0.0000080	---	---	---	---	< 0.000007	---	---	---	---
Boron		B	mg/L		0.0088	0.0082	0.013	0.0043	0.0040	0.0049	---	---	---	---	0.0071	---	---	---	---	0.0031	---	---	---	---
Bromide		Br	mg/L		< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	---	---	---	---	< 0.3	---	---	---	---	< 0.3	---	---	---	---
Cadmium		Cd	mg/L	0.002	0.002	0.000014	0.0000030	0.000017	0.0000030	< 0.000003	0.000011	---	---	---	0.0000050	---	---	---	---	0.000011	---	---	---	---
Calcium		Ca	mg/L		64	82	100	95	74	85	---	---	---	---	66	---	---	---	---	46	---	---	---	---
Chromium		Cr	mg/L		0.000040	< 0.00003	< 0.00003	< 0.00003	< 0.00003	< 0.00003	---	---	---	---	< 0.00003	---	---	---	---	< 0.00003	---	---	---	---
Chromium VI		Cr(VI)	mg/L		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	---	---	---	---	< 0.2	---	---	---	---	< 0.2	---	---	---	---
Cobalt		Co	mg/L		0.014	0.0087	0.011	0.0044	0.0026	0.0025	---	---	---	---	0.0016	---	---	---	---	0.0011	---	---	---	---
Copper		Cu	mg/L	0.1	0.0051	0.018	0.065	0.26	0.095	0.14	---	---	---	---	0.018	---	---	---	---	0.00035	---	---	---	---
Iron		Fe	mg/L		0.21	0.052	0.017	< 0.007	0.013	0.0090	---	---	---	---	< 0.007	---	---	---	---	< 0.007	---	---	---	---
Lead		Pb	mg/L	0.1	0.000040	< 0.00001	< 0.00001	0.000020	0.000030	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	0.000080	---	---	---	---
Lithium		Li	mg/L		0.0013	0.0018	0.0023	0.0019	0.0022	0.0016	---	---	---	---	0.0019	---	---	---	---	0.0023	---	---	---	---
Magnesium		Mg	mg/L		1.9	2.7	3.3	3.0	2.0	1.7	---	---	---	---	2.2	---	---	---	---	2.0	---	---	---	---
Manganese		Mn	mg/L		0.013	0.025	0.030	0.032	0.033	0.040	---	---	---	---	0.10	---	---	---	---	0.069	---	---	---	---
Mercury		Hg	mg/L	0.0004	0.0004	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---
Molybdenum		Mo	mg/L		0.032	0.017	0.014	0.0039	0.0019	0.0027	---	---	---	---	0.00081	---	---	---	---	0.00070	---	---	---	---
Nickel		Ni	mg/L	0.2	0.0062	0.0064	0.010	0.013	0.013	0.017	---	---	---	---	0.029	---	---	---	---	0.019	---	---	---	---
Potassium		K	mg/L		15	14	14	11	8.4	8.5	---	---	---	---	7.6	---	---	---	---	6.6	---	---	---	---
Selenium		Se	mg/L		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	---	---	---	---	< 0.001	---	---	---	---	0.00028	---	---	---	---
Silicon		Si	mg/L		0.41	0.31	0.35	0.23	0.29	0.21	---	---	---	---	0.28	---	---	---	---	0.29	---	---	---	---
Silver		Au	mg/L		0.0000040	0.00023	0.0015	0.0016	0.00072	0.00072	---	---	---	---	0.00019	---	---	---	---	0.000018	---	---	---	---
Sodium		Na	mg/L		233	182	174	115	50	43	---	---	---	---	21	---	---	---	---	8.4	---	---	---	---
Strontium		Sr	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thallium		Th	mg/L		< 0.000005	< 0.000005	0.000012	< 0.000005	0.000013	< 0.000005	---	---	---	---	< 0.000005	---	---	---	---	0.000021	---	---	---	---
Tin		Sn	mg/L		0.0079	0.0023	0.0014	0.0015	0.0013	0.0012	---	---	---	---	0.00064	---	---	---	---	0.00064	---	---	---	---
Titanium		Ti	mg/L		< 0.00005	0.000080	< 0.00005	< 0.00005	< 0.00005	< 0.00005	---	---	---	---	< 0.00005	---	---	---	---	< 0.00005	---	---	---	---
Uranium		U	mg/L		0.000075	0.00012	0.00023	0.00012	0.000071	0.000039	---	---	---	---	0.000040	---	---	---	---	0.000019	---	---	---	---
Vanadium		V	mg/L		0.000090	0.000070	0.000040	0.000050	0.000040	0.000040	---	---	---	---	0.000010	---	---	---	---	0.000040	---	---	---	---
Zinc		Zn	mg/L	0.4	0.2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	---	---	---	---	< 0.002	---	---	---	---	< 0.002	---	---	---	---

Notes:
1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.
2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

1.0	Exceeds the Portage Effluent Guideline.
1.0	Result exceeds the Vault Effluent Guideline.
1.0	Exceeds Portage and Vault Effluent Guidelines.

Appendix F-1
Kinetic Testing Results
Waste Rock, Ore, and Tailings
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria¹	Vault Effluent Criteria²	Humidity Cell Test Cycle - RE-13872/RE-13874 Tailings																				
					Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26	Week 27	Week 28	Week 29	Week 30	Week 31	Week 32	Week 33	Week 34	Week 35	Week 36	Week 37	Week 38	Week 39	Week 40
PHYSICAL TESTS																									
Leachate Volume Added		mL			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
Leachate Volume Recovered		mL			992	944	996	899	930	951	920	983	853	1006	993	985	879	882	843	844	893	825	898	862	881
pH		-	6.0 - 9.0	6.0 - 9.0	7.4	7.6	7.1	7.3	8.2	7.6	7.7	7.6	7.2	7.3	7.7	7.7	7.9	7.5	7.2	7.3	7.3	7.6	7.2	7.3	7.2
Conductivity		µS/cm			232	184	204	172	216	207	218	227	222	335	209	179	200	201	192	198	230	208	240	210	274
ANIONS & NUTRIENTS																									
Acidity		as CaCO3	mg/L		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	
Alkalinity		as CaCO4	mg/L		8.0	12	8.0	9.0	14	9.0	9.0	8.0	9.0	10	9.0	9.0	11	13	11	10	10	11	9.0	10	10
Chloride		Cl	mg/L	1000	500	< 1	---	---	< 1	---	---	---	< 1	---	---	---	< 1	---	---	---	< 1	---	---	---	< 1
Fluoride		Fe	mg/L		< 0.06	---	---	---	< 0.06	---	---	---	< 0.06	---	---	---	< 0.06	---	---	---	< 0.06	---	---	---	< 0.06
Phosphorus		P	mg/L	1	< 0.003	---	---	---	< 0.003	---	---	---	< 0.053	---	---	---	< 0.0070	---	---	---	< 0.003	---	---	---	< 0.003
Sulphate		SO4	mg/L		80	68	78	68	88	81	85	88	85	130	80	76	75	78	78	76	72	81	96	82	97
Nitrate (as N)		as N	mg/L	20	< 0.06	---	---	---	< 0.06	---	---	---	< 0.06	---	---	---	< 0.06	---	---	---	< 0.06	---	---	---	< 0.06
Nitrite (as N)		as N	mg/L		< 0.03	---	---	---	< 0.03	---	---	---	< 0.03	---	---	---	< 0.03	---	---	---	< 0.03	---	---	---	< 0.03
NH3+NH4		mg/L	16	20	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1
Cyanate		OCN	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	< 1	---	---	---	---	---	---	---	---
Cyanide (total)		CN	mg/L	0.5	---	---	---	---	---	---	---	---	---	---	---	---	0.020	---	---	---	---	---	---	---	---
Cyanide (WAD)		CN	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	< 0.01	---	---	---	---	---	---	---	---
Thiocyanate		SCN	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	< 2	---	---	---	---	---	---	---	---
DISSOLVED METALS																									
Aluminum		Al	mg/L	1	1	0.0060	---	---	---	0.011	---	---	---	0.0080	---	---	---	0.014	---	---	---	0.010	---	---	0.0080
Antimony		Sb	mg/L			0.00060	---	---		0.00080	---	---	---	0.00040	---	---	---	0.00070	---	---		0.00050	---	---	0.00050
Arsenic		As	mg/L	0.3	0.1	0.044	---	---	---	0.087	---	---	---	0.036	---	---	---	0.064	---	---		0.050	---	---	0.075
Barium		Ba	mg/L			0.0042	---	---	---	0.0028	---	---	---	0.0029	---	---	---	0.0034	---	---		0.0040	---	---	0.0038
Beryllium		Be	mg/L			< 0.000007	---	---	---	< 0.000007	---	---	---	< 0.000007	---	---	---	0.000011	---	---		< 0.000007	---	---	< 0.000007
Bismuth		Bi	mg/L			< 0.000007	---	---	---	< 0.000007	---	---	---	0.000015	---	---	---	0.000016	---	---		< 0.000007	---	---	< 0.000007
Boron		B	mg/L			0.0021	---	---	---	0.0026	---	---	---	0.0017	---	---	---	0.0017	---	---		0.0029	---	---	0.0035
Bromide		Br	mg/L			< 0.3	---	---	---	< 0.3	---	---	---	< 0.3	---	---	---	< 0.3	---	---		< 0.3	---	---	< 0.3
Cadmium		Cd	mg/L	0.002	0.002	0.000013	---	---	---	< 0.000003	---	---	---	< 0.000003	---	---	---	0.000011	---	---		< 0.000003	---	---	< 0.000003
Calcium		Ca	mg/L			29	---	---	---	34	---	---	---	36	---	---	---	31	---	---		34	---	---	39
Chromium		Cr	mg/L			< 0.00003	---	---	---	< 0.00003	---	---	---	< 0.00003	---	---	---	0.000050	---	---		0.000070	---	---	< 0.00003
Chromium VI		Cr(VI)	mg/L			< 0.2	---	---	---	< 0.2	---	---	---	< 0.2	---	---	---	< 0.2	---	---		< 0.2	---	---	< 0.2
Cobalt		Co	mg/L			0.00067	---	---	---	0.00040	---	---	---	0.00039	---	---	---	0.00039	---	---		0.00046	---	---	0.00040
Copper		Cu	mg/L	0.1	0.1	0.00046	---	---	---	0.00062	---	---	---	0.00059	---	---	---	0.0015	---	---		0.00057	---	---	0.00028
Iron		Fe	mg/L			0.070	---	---	---	0.0070	---	---	---	0.0080	---	---	---	0.012	---	---		< 0.007	---	---	< 0.007
Lead		Pb	mg/L	0.1	0.1	0.000020	---	---	---	< 0.00001	---	---	---	0.000020	---	---	---	0.00012	---	---		< 0.00001	---	---	< 0.00001
Lithium		Li	mg/L			0.0015	---	---	---	0.0014	---	---	---	0.0012	---	---	---	0.0014	---	---		0.0015	---	---	0.0016
Magnesium		Mg	mg/L			1.6	---	---	---	0.93	---	---	---	0.89	---	---	---	0.90	---	---		1.1	---	---	0.96
Manganese		Mn	mg/L			0.052	---	---	---	0.026	---	---	---	0.039	---	---	---	0.024	---	---		0.035	---	---	0.029
Mercury		Hg	mg/L	0.0004	0.0004	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---		< 0.00001	---	---	< 0.00001
Molybdenum		Mo	mg/L			0.00069	---	---	---	0.00082	---	---	---	0.0012	---	---	---	0.0011	---	---		0.0012	---	---	0.0020
Nickel		Ni	mg/L	0.2	0.2	0.0099	---	---	---	0.0044	---	---	---	0.0044	---	---	---	0.0029	---	---		0.0033	---	---	0.0030
Potassium		K	mg/L			4.7	---	---	---	3.7	---	---	---	3.2	---	---	---	3.7	---	---		4.3	---	---	4.9
Selenium		Se	mg/L			0.00037	---	---	---	0.00025	---	---	---	0.00013	---	---	---	0.00026	---	---		0.00021	---	---	0.00024
Silicon		Si	mg/L			0.21	---	---	---	0.23	---	---	---	0.16	---	---	---	0.23	---	---		0.21	---	---	0.29
Silver		Au	mg/L			< 0.000002	---	---	---	< 0.000002	---	---	---	0.0000050	---	---	---	0.000012	---	---		< 0.000002	---	---	< 0.000002
Sodium		Na	mg/L			3.7	---	---	---	1.7	---	---	---	1.1	---	---	---	0.79	---	---		0.86	---	---	0.81
Strontium		Sr	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		---	---	---	---
Thallium		Th	mg/L			< 0.000005	---	---	---	< 0.000005	---	---	---	0.000034	---	---	---	0.000017	---	---		< 0.000005	---	---	0.000010
Tin		Sn	mg/L			0.00052	---	---	---	0.00095	---	---	---	0.00043	---	---	---	0.00069	---	---		0.00039	---	---	0.00040
Titanium		Ti	mg/L			< 0.00005	---	---	---	< 0.00005	---	---	---	< 0.00005	---	---	---	0.000080	---	---		0.000060	---	---	< 0.00005
Uranium		U	mg/L			0.000017	---	---	---	0.000029	---	---	---	0.000027	---	---	---	0.000025	---	---		0.000017	---	---	0.000030
Vanadium		V	mg/L			0.000070	---	---	---	0.000060	---	---	---	0.000040	---	---	---	0.000060	---	---		0.000040	---	---	0.000020
Zinc		Zn	mg/L	0.4	0.2	< 0.002	---	---	---	< 0.002	---	---	---	< 0.002	---	---	---	< 0.002	---	---		< 0.002	---	---	< 0.002

Notes:
1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.
2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

1.0	Exceeds the Portage Effluent Guideline.
1.0	Result exceeds the Vault Effluent Guideline.
1.0	Exceeds Portage and Vault Effluent Guidelines.

Appendix F-1
Kinetic Testing Results
Waste Rock, Ore, and Tailings
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria ¹	Vault Effluent Criteria ²	Large Column - #1 Ultramafic (Oa)																									
					Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	
PHYSICAL TESTS																														
Leachate Volume Added			mL		4250	4250	4250	4250	4250	4250	4250	4250	4250	4250	4250	4250	4250	4250	4250	4250	4250	4250	4250	750	750	750	2000 / flooded	4250		
Leachate Volume Recovered			mL		2136	3680	3863	3950	3982	4016	4024	3782	3790	3742	4039	3930	3976	3930	3936	4062	3949	3973	3979	3956	776	728	737	11497	4303	
pH			-	6.0 - 9.0	6.0 - 9.0	8.5	8.3	8.1	8.0	8.2	8.1	8.1	8.0	8.1	8.1	8.1	8.0	8.0	8.1	8.0	7.9	8.1	8.1	8.1	8.1	7.5	8.1	8.0		
Conductivity			µS/cm		193	400	384	333	295	243	190	174	157	152	157	130	136	137	136	134	112	116	122	123	236	280	345	165	135	
ANIONS & NUTRIENTS																														
Acidity			as CaCO3	mg/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2		
Alkalinity			as CaCO4	mg/L	30	50	49	47	48	44	42	45	36	41	38	35	36	36	34	35	36	34	33	33	64	69	56	32	36	
Chloride			Cl	mg/L	1000	500	15	33	12	5.0	2.0	2.0	---	---	---	< 1	---	---	---	< 1	---	---	---	---	< 1	< 1	< 1	< 1	< 1	
Fluoride			Fe	mg/L		0.080	0.15	0.12	0.14	0.13	0.11	---	---	---	0.090	---	---	---	---	0.070	---	---	---	---	0.10	0.110	0.12	0.06	0.07	
Phosphorus			P	mg/L	1	1.5	0.0090	0.0040	< 0.003	0.027	< 0.003	< 0.003	---	---	---	< 0.003	---	---	---	< 0.003	---	---	---	---	0.0030	0.008	< 0.003	< 0.003	< 0.003	
Sulphate			SO4	mg/L		28	88	96	84	67	53	43	31	29	28	26	22	22	23	21	20	19	19	18	19	42	49	68	37	24
Nitrate (as N)			as N	mg/L	20	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Nitrite (as N)			as N	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
NH3+NH4				mg/L	16	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Cyanate			OCN	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Cyanide (total)			CN	mg/L	0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Cyanide (WAD)			CN	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Thiocyanate			SCN	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
DISSOLVED METALS																														
Aluminum			Al	mg/L	1	1	0.013	0.0060	0.0050	0.0070	0.0070	0.0090	---	---	---	0.012	---	---	---	---	0.010	---	---	---	0.0060	0.007	0.006	0.01	0.011	
Antimony			Sb	mg/L			0.0075	0.14	0.14	0.13	0.14	0.13	---	---	---	0.088	---	---	---	---	0.064	---	---	---	0.10	0.127	0.14	0.0632	0.0571	
Arsenic			As	mg/L	0.3	0.1	0.27	11	15	16	16	13	---	---	---	9.0	---	---	---	---	6.6	---	---	---	13	15.1	18.1	7.4	7.11	
Barium			Ba	mg/L			0.023	0.049	0.047	0.034	0.037	0.030	---	---	---	0.026	---	---	---	---	0.023	---	---	---	0.056	0.070	0.0795	0.0292	0.0264	
Beryllium			Be	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	0.0000090	---	---	---	---	< 0.000007	---	---	---	< 0.000007	< 0.000007	< 0.000007	0.000013	< 0.000007	
Bismuth			Bi	mg/L			0.00010	0.000016	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	0.0000090	---	---	---	---	< 0.000007	---	---	---	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	
Boron			B	mg/L			0.040	0.16	0.13	0.11	0.093	0.055	---	---	---	0.032	---	---	---	---	0.018	---	---	---	0.026	0.028	0.032	0.019	0.017	
Bromide			Br	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Cadmium			Cd	mg/L	0.002	0.002	0.000012	0.000014	< 0.000003	< 0.000003	0.0000040	< 0.000003	---	---	---	0.000021	---	---	---	---	< 0.000003	---	---	---	< 0.000003	< 0.000003	< 0.000003	0.000006	< 0.000003	
Calcium			Ca	mg/L			10	22	24	20	19	14	14	12	11	12	11	9.5	10	10	9.6	9.5	9.4	9.3	20	25	27.8	14	12	
Chromium			Cr	mg/L			0.0012	0.00045	0.00032	0.00029	0.00033	0.00026	---	---	---	0.00024	---	---	---	---	0.00014	---	---	---	0.00011	0.00012	0.00013	0.00025	0.00017	
Chromium VI			Cr(VI)	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Cobalt			Co	mg/L			0.0013	0.0047	0.0026	0.0017	0.0013	0.0011	---	---	---	0.00053	---	---	---	---	0.00049	---	---	---	---	0.00074	0.00103	0.00115	0.000796	0.000629
Copper			Cu	mg/L	0.1	0.1	0.0054	0.0022	0.00097	0.00079	0.00079	0.00044	---	---	---	0.00015	---	---	---	---	0.00010	---	---	---	---	0.00038	0.00064	0.00028	0.00055	0.00018
Iron			Fe	mg/L			0.018	< 0.007	< 0.007	< 0.007	0.037	< 0.007	---	---	---	0.0090	---	---	---	---	0.0080	---	---	---	---	< 0.007	< 0.007	< 0.007	0.057	0.011
Lead			Pb	mg/L	0.1	0.1	0.00039	0.00028	0.00010	0.000030	< 0.00001	0.000010	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	< 0.00001	< 0.00001	0.00005	0.00004
Lithium			Li	mg/L			0.0013	0.0041	0.0040	0.0043	0.0044	0.0026	---	---	---	0.0029	---	---	---	---	0.0025	---	---	---	---	0.0048	0.0061	0.00627	0.0028	0.0027
Magnesium			Mg	mg/L			4.2	12	12	11	9.1	8.1	---	---	---	4.7	---	---	---	---	3.4	---	---	---	---	6.7	9.3	10.3	4.8	3.81
Manganese			Mn	mg/L			0.0088	0.013	0.015	0.016	0.013	0.010	---	---	---	0.0077	---	---	---	---	0.0073	---	---	---	---	0.016	0.0212	0.0215	0.00983	0.00964
Mercury			Hg	mg/L	0.0004	0.0004	0.000030	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum			Mo	mg/L			0.0014	0.0036	0.0028	0.0019	0.0015	0.0033	---	---	---	0.0018	---	---	---	---	0.00065	---	---	---	---	0.00072	0.0010	0.00082	0.00047	0.00024
Nickel			Ni	mg/L	0.2	0.2	0.013	0.075	0.068	0.048	0.036	0.028	---	---	---	0.0086	---	---	---	---	0.0056	---	---	---	---	0.0089	0.0126	0.015	0.0095	0.0059
Potassium			K	mg/L			21	46	42	36	33	28	---	---	---	19	---	---	---	---	14	---	---	---	---	21	28	30.5	17.9	15.2
Selenium			Se	mg/L			0.00084	0.0030	0.0023	0.0012	0.0021	0.00081	---	---	---	0.00075	---	---	---	---	0.00051	---	---	---	---	0.00061	0.00074	0.0011	0.0007	0.00051
Silicon			Si	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver			Au	mg/L			0.000022	0.000018	0.0000060	0.0000050	< 0.000002	< 0.000002	---	---	---	0.000013	---	---	---	---	< 0.000002	---	---	---	---	< 0.000002	< 0.000002	< 0.000002	< 0.000002	0.000002
Sodium			Na	mg/L			5.7	13	9.5	7.1	5.0	3.5	---	---	---	1.1	---	---	---	---	0.83	0	0	0	---	0.59	0.8	0.88	0.79	0.5
Strontium			Sr	mg/L			0.12	0.33	0.33	0.26	0.26	0.18	---	---	---	0.12	---	---	---	---	0.094	---	---	---	---	0.18	0.22	0.256	0.118	0.107
Thallium			Th	mg/L			0.000023	0.000058	0.000082	0.000078	0.000034	0.000064	---	---	---	0.000042	---	---	---	---	0.000038	---	---	---	---	0.000055	0.000086	0.000079	0.000077	0.000039
Tin			Sn	mg/L			0.00010	< 0.00001	0.000060	0.000050	< 0.00001	0.000060	---	---	---	0.000090	---	---	---	---	0.000030	---	---	---	---	0.000060	0.000020	0.00001	< 0.00001	< 0.00

Appendix F-1
Kinetic Testing Results
Waste Rock, Ore, and Tailings
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria ¹	Vault Effluent Criteria ²	Large Column - #2 Iron Formation (S9e)																									
					Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	
PHYSICAL TESTS																														
Leachate Volume Added			mL		4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	750	750	750	2000 / flooded	4000		
Leachate Volume Recovered			mL		2073	3978	4193	4212	4232	4249	4274	4157	4176	4118	4275	4161	4221	4168	4136	4333	4186	4222	4235	4206	787	731	724	11721	4496	
pH			-	6.0 - 9.0	8.5	8.3	8.1	8.1	8.1	8.2	8.1	8.1	8.0	8.1	8.0	8.1	8.0	7.9	8.0	8.0	8.0	7.8	7.9	8.0	8.0	8.1	8.0	8.1	7.9	
Conductivity			µS/cm		207	542	468	398	324	286	225	247	240	225	225	189	216	213	229	221	187	201	197	201	421	487	532	211	189	
ANIONS & NUTRIUENTS																														
Acidity as CaCO3			mg/L		< 2	28	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	
Alkalinity as CaCO4			mg/L		38	69	63	60	56	54	49	46	43	43	41	38	38	37	38	37	35	37	34	35	61	68	64	33	40	
Chloride			Cl	mg/L	1000	500	15	88	22	7.0	1.0	< 1	---	---	< 1	---	---	---	---	< 1	---	---	---	---	< 1	< 1	< 1	< 1	< 1	
Fluoride			Fe	mg/L		0.10	0.15	0.13	0.13	0.12	0.11	---	---	---	0.080	---	---	---	---	0.070	---	---	---	---	0.11	0.12	0.14	0.06	0.08	
Phosphorus			P	mg/L	1	1.5	0.011	< 0.003	< 0.003	0.049	< 0.003	< 0.003	---	---	< 0.003	---	---	---	---	< 0.003	---	---	---	---	< 0.003	0.003	< 0.003	< 0.003	< 0.003	
Sulphate			SO4	mg/L		28	90	110	93	76	66	55	58	62	61	56	49	57	59	61	62	55	58	54	54	120	120	180	55	48
Nitrate (as N)			as N	mg/L	20	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Nitrite (as N)			as N	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
NH3+NH4				mg/L	16	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Cyanate			OCN	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Cyanide (total)			CN	mg/L	0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Cyanide (WAD)			CN	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Thiocyanate			SCN	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
DISSOLVED METALS																														
Aluminum			Al	mg/L	1	1	0.035	0.0080	0.0080	0.0090	0.0090	0.012	---	---	0.017	---	---	---	---	0.017	---	---	---	---	0.014	0.0130	0.0120	0.0190	0.0200	
Antimony			Sb	mg/L			0.013	0.25	0.29	0.23	0.24	0.20	---	---	0.12	---	---	---	---	0.082	---	---	---	---	0.13	0.16	0.18	0.07	0.07	
Arsenic			As	mg/L	0.3	0.1	0.24	12	15	18	17	15	---	---	7.7	---	---	---	---	5.2	---	---	---	---	9.2	10	12	5	6	
Barium			Ba	mg/L			0.0072	0.023	0.023	0.016	0.016	0.013	---	---	0.012	---	---	---	---	0.014	---	---	---	---	0.035	0.046	0.053	0.015	0.014	
Beryllium			Be	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	0.0000090	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	
Bismuth			Bi	mg/L			0.000068	0.00011	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	0.000013	---	---	---	---	< 0.000007	---	---	---	---	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	
Boron			B	mg/L			0.037	0.16	0.13	0.12	0.077	0.051	---	---	0.035	---	---	---	---	0.020	---	---	---	---	0.029	0.03	0.04	0.02	0.017	
Bromide			Br	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Cadmium			Cd	mg/L	0.002	0.002	< 0.000003	< 0.000003	0.0000050	0.0000030	< 0.000003	< 0.000003	---	---	0.0000090	---	---	---	---	< 0.000003	---	---	---	---	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	
Calcium			Ca	mg/L			9.0	24	26	23	19	15	15	16	17	16	14	16	16	17	17	17	15	16	37	46	50	19	18	
Chromium			Cr	mg/L			0.0014	0.00029	0.00017	0.00015	0.00015	0.00014	---	---	0.00015	---	---	---	---	0.000050	---	---	---	---	0.000080	< 0.00003	0.00003	0.00006	0.00010	
Chromium VI			Cr(VI)	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Cobalt			Co	mg/L			0.00025	0.0030	0.0029	0.0025	0.0018	0.0014	---	---	0.00067	---	---	---	---	0.00060	---	---	---	---	0.0010	0.0014	0.0017	0.0007	0.0005	
Copper			Cu	mg/L	0.1	0.1	0.00021	0.00083	0.00045	0.00039	0.00039	0.00050	---	---	0.00017	---	---	---	---	< 0.00002	---	---	---	---	0.00031	0.00045	0.00026	0.00066	0.00007	
Iron			Fe	mg/L			0.017	< 0.007	< 0.007	< 0.007	0.036	< 0.007	---	---	< 0.007	---	---	---	---	< 0.007	---	---	---	---	< 0.007	< 0.007	< 0.007	0.01	< 0.007	
Lead			Pb	mg/L	0.1	0.1	0.000080	0.00011	0.000060	< 0.00001	< 0.00001	< 0.00001	---	---	0.000020	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	< 0.00001	0.000020	< 0.00001	0.000040	
Lithium			Li	mg/L			0.0022	0.0055	0.0052	0.0049	0.0044	0.0026	---	---	0.0035	---	---	---	---	0.0034	---	---	---	---	0.0064	0.0077	0.0081	0.0034	0.0037	
Magnesium			Mg	mg/L			3.3	13	12	12	8.9	8.6	---	---	6.3	---	---	---	---	5.1	---	---	---	---	11	13	15	5	4.4	
Manganese			Mn	mg/L			0.0040	0.023	0.027	0.032	0.023	0.018	---	---	0.016	---	---	---	---	0.018	---	---	---	---	0.039	0.051	0.055	0.020	0.018	
Mercury			Hg	mg/L	0.0004	0.0004	0.000010	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	
Molybdenum			Mo	mg/L			0.0015	0.0096	0.0077	0.0042	0.0028	0.0026	---	---	0.0018	---	---	---	---	0.00076	---	---	---	---	0.0016	0.0020	0.0022	0.0007	0.0005	
Nickel			Ni	mg/L	0.2	0.2	0.0086	0.14	0.11	0.088	0.063	0.049	---	---	0.014	---	---	---	---	0.011	---	---	---	---	0.020	0.03	0.04	0.013	0.008	
Potassium			K	mg/L			26	61	52	43	35	31	---	---	26	---	---	---	---	22	---	---	---	---	35	45	51	22	22	
Selenium			Se	mg/L			0.00040	0.0016	0.0029	0.00092	0.00077	0.00081	---	---	0.00075	---	---	---	---	0.00038	---	---	---	---	0.00062	0.0007	0.0011	0.00034	0.00034	
Silicon			Si	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Silver			Au	mg/L			0.000016	0.00057	0.000036	0.0000070	< 0.000002	< 0.000002	---	---	0.0000050	---	---	---	---	< 0.000002	---	---	---	---	< 0.000002	< 0.000002	< 0.000002	< 0.000002	0.00000	
Sodium			Na	mg/L			8.2	27	20	15	10	8.4	---	---	3.6	---	---	---	---	2.2	0	0	0	---	2.5	3	4	2	1	
Strontium			Sr	mg/L			0.061	0.23	0.22	0.17	0.17	0.12	---	---	0.11	---	---	---	---	0.10	---	---	---	---	0.20	0.24	0.28	0.10	0.09	
Thallium			Th	mg/L			0.0000090	0.0000090	0.000039	0.000037	< 0.000005	0.000012	---	---	< 0.000005	---	---	---	---	0.0000070	---	---	---	---	0.000013	0.0000220	0.000017	0.000017	< 0.000005	
Tin			Sn	mg/L			0.00011	0.000050	0.000090	0.000060	< 0.00001	0.000030	---	---	0.00013	---	---	---	---	< 0.00001	---	---	---	---	0.000080	0.000080	0.000020	< 0.00001	< 0.00001	
Titanium			Ti	mg/L			0.00021	0.000090	0.000070	0.000070	< 0.00005	0.00000																		

Appendix F-1
Kinetic Testing Results
Waste Rock, Ore, and Tailings
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria ¹	Vault Effluent Criteria ²	Large Column - #3 Greywake (S3C)																										
					Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24		
PHYSICAL TESTS																															
Leachate Volume Added			mL		4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	750	750	750	0000 / flooded	4500			
Leachate Volume Recovered			mL		1678	4267	4460	4499	4508	4528	4568	4464	4493	4517	4595	4473	4525	4446	4458	4640	4479	4512	4512	4485	779	745	755	9820	4752		
pH			-	6.0 - 9.0	7.8	8.1	7.9	7.9	8.1	8.1	8.0	8.0	7.7	7.9	7.9	7.7	7.7	7.8	7.8	7.8	7.8	7.7	7.7	8.0	8.0	7.9	7.8	7.8			
Conductivity			µS/cm		562	1430	1040	763	603	494	449	674	832	869	869	702	741	704	729	722	623	658	651	668	1110	1490	1760	939	672		
ANIONS & NUTRIENTS																															
Acidity as CaCO3			mg/L		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2			
Alkalinity as CaCO4			mg/L		48	87	73	60	61	57	59	59	57	56	53	46	48	44	46	48	45	42	44	43	66	64	63	44	48		
Chloride			Cl	mg/L	1000	500	18	34	7.0	2.0	< 1	< 1	---	---	---	< 1	---	---	---	< 1	---	---	---	---	< 1	< 1	< 1	< 1	< 1		
Fluoride			Fe	mg/L		0.29	0.58	0.52	0.56	0.54	0.51	---	---	---	0.34	---	---	---	---	0.28	---	---	---	---	0.34	0.34	0.33	0.29	0.28		
Phosphorus			P	mg/L	1	1.5	0.012	< 0.003	< 0.003	0.022	< 0.003	< 0.003	---	---	---	< 0.003	---	---	---	< 0.003	---	---	---	---	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003		
Sulphate			SO4	mg/L		140	550	390	270	200	140	150	240	360	400	370	330	330	320	320	310	300	290	290	270	500	680	930	430	310	
Nitrate (as N)			as N	mg/L	20	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
Nitrite (as N)			as N	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
NH3+NH4				mg/L	16	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
Cyanate			OCN	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
Cyanide (total)			CN	mg/L	0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
Cyanide (WAD)			CN	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
Thiocyanate			SCN	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
DISSOLVED METALS																															
Aluminum			Al	mg/L	1	1	0.12	0.037	0.042	0.054	0.047	0.068	---	---	---	0.030	---	---	---	---	0.026	---	---	---	0.013	0.014	0.012	0.021	0.024		
Antimony			Sb	mg/L			0.0019	0.016	0.0097	0.0075	0.0092	0.0072	---	---	---	0.0032	---	---	---	---	0.0019	---	---	---	0.0016	0.0018	0.0022	0.0014	0.0013		
Arsenic			As	mg/L	0.3	0.1	0.029	0.032	0.025	0.026	0.029	0.026	---	---	---	0.042	---	---	---	---	0.0091	---	---	---	0.012	0.012	0.009	0.010	0.011		
Barium			Ba	mg/L			0.017	0.047	0.030	0.016	0.016	0.013	---	---	---	0.028	---	---	---	---	0.017	---	---	---	0.027	0.043	0.055	0.023	0.014		
Beryllium			Be	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	0.000011	---	---	---	---	< 0.000007	---	---	---	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007		
Bismuth			Bi	mg/L			0.000037	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	0.000011	---	---	---	---	< 0.000007	---	---	---	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007		
Boron			B	mg/L			0.029	0.14	0.12	0.10	0.070	0.047	---	---	---	0.040	---	---	---	---	0.025	---	---	---	0.031	0.04	0.04	0.030	0.026		
Bromide			Br	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
Cadmium			Cd	mg/L	0.002	0.002	< 0.000003	0.000034	0.000025	0.000014	0.000011	0.0000080	---	---	---	0.000056	---	---	---	---	0.000031	---	---	---	0.000038	0.000056	0.000064	0.000044	0.0000350		
Calcium			Ca	mg/L			27	70	61	45	38	31	40	68	107	129	120	98	114	98	105	103	107	112	101	109	202	324	401	194	128
Chromium			Cr	mg/L			0.000060	< 0.00003	< 0.00003	< 0.00003	0.000050	< 0.00003	---	---	---	< 0.00003	---	---	---	---	< 0.00003	---	---	---	< 0.00003	< 0.00003	< 0.00003	< 0.00003	< 0.00003		
Chromium VI			Cr(VI)	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
Cobalt			Co	mg/L			0.00028	0.00099	0.00073	0.00047	0.00040	0.00030	---	---	---	0.0015	---	---	---	---	0.0011	---	---	---	---	0.0011	0.00164	0.00194	0.00121	0.00065	
Copper			Cu	mg/L	0.1	0.1	0.0011	0.00075	0.00062	0.00055	0.00081	0.00051	---	---	---	0.00054	---	---	---	---	0.00033	---	---	---	---	0.00034	0.00074	0.00053	0.00057	0.00026	
Iron			Fe	mg/L			0.033	0.0090	< 0.007	< 0.007	0.082	0.010	---	---	---	< 0.007	---	---	---	---	< 0.007	---	---	---	---	< 0.007	< 0.007	< 0.007	< 0.007		
Lead			Pb	mg/L	0.1	0.1	0.000040	0.00027	0.00014	0.000040	0.000040	0.000030	---	---	---	0.000040	---	---	---	---	< 0.00001	---	---	---	< 0.00001	0.00003	0.000020	0.000020	0.000020		
Lithium			Li	mg/L			0.016	0.015	0.012	0.0098	0.0087	0.0050	---	---	---	0.0091	---	---	---	---	0.0057	---	---	---	---	0.0053	0.007	0.0070	0.0052	0.0041	
Magnesium			Mg	mg/L			4.2	19	15	13	8.5	8.0	---	---	---	12	---	---	---	---	6.9	---	---	---	---	9.7	16	18	9.9	5.7	
Manganese			Mn	mg/L			0.086	0.18	0.15	0.099	0.074	0.062	---	---	---	0.34	---	---	---	---	0.30	---	---	---	---	0.32	0.46	0.493	0.218	0.102	
Mercury			Hg	mg/L	0.0004	0.0004	0.000020	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	---	---	---	< 0.00001	---	---	---	---	< 0.00001	---	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	
Molybdenum			Mo	mg/L			0.0034	0.021	0.020	0.016	0.013	0.010	---	---	---	0.0058	---	---	---	---	0.0045	---	---	---	---	0.0090	0.012	0.015	0.007	0.007	
Nickel			Ni	mg/L	0.2	0.2	0.0051	0.012	0.0073	0.0043	0.0035	0.0018	---	---	---	0.0031	---	---	---	---	0.0019	---	---	---	---	0.0029	0.0044	0.0061	0.0028	0.0015	
Potassium			K	mg/L			69	208	142	94	69	55	---	---	---	56	---	---	---	---	32	---	---	---	---	29	43	49	32	23	
Selenium			Se	mg/L			0.0024	0.0098	0.0085	0.0042	0.0029	0.0022	---	---	---	0.0016	---	---	---	---	0.00076	---	---	---	---	0.00099	0.0014	0.0019	0.0008	0.0008	
Silicon			Si	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Silver			Au	mg/L			0.0000070	0.000018	0.0000060	0.0000060	< 0.000002	< 0.000002	---	---	---	0.000010	---	---	---	---	< 0.000002	---	---	---	---	< 0.000002	< 0.000002	0.0000020	< 0.000002	0.00000	
Sodium			Na	mg/L			23	80	52	34	23	18	---	---	---	11	---	---	---	---	5.3	0	0	0	---	4.4	7	7	5	3	
Strontium			Sr	mg/L			0.10	0.37	0.29	0.18	0.19	0.12	---	---	---	0.29	---	---	---	---	0.19	---	---	---	---	0.33	0.50	0.61	0.29	0.20	
Thallium			Th	mg/L			0.000022	0.000019	0.000040	0.000039	< 0.000005	0.000010	---	---	---	0.0000080	---	---	---	---	0.0000090	---	---	---	---	0.000011	0.				

Appendix F-1
Kinetic Testing Results
Waste Rock, Ore, and Tailings
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria ¹	Vault Effluent Criteria ²	Large Column - #4 Grewake (S3C and S3S)																									
					Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	
PHYSICAL TESTS																														
Leachate Volume Added			mL		6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	750	750	750	3500 / flooded	6000	
Leachate Volume Recovered			mL		2597	5555	5929	5999	6010	6019	6044	5753	5746	5742	6045	5902	5969	5856	5913	6177	5966	5987	6010	5968	785	748	742	13076	6412	
pH			-	6.0 - 9.0	7.9	8.2	8.0	7.9	8.1	8.1	8.0	8.1	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.7	7.9	8.0	8.2	8.0	8.0	7.7	
Conductivity			µS/cm		304	564	459	338	259	223	198	229	318	386	390	278	271	257	245	234	185	190	191	192	346	493	572	304	195	
ANIONS & NUTRIUENTS																														
Acidity			as CaCO3	mg/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	
Alkalinity			as CaCO4	mg/L	38	58	54	47	46	46	42	43	46	46	44	39	39	40	38	40	36	37	47	37	57	66	65	38	40	
Chloride			Cl	mg/L	14	20	7.0	3.0	1.0	< 1	---	---	---	---	< 1	---	---	---	---	< 1	---	---	---	---	< 1	< 1	< 1	< 1	< 1	
Fluoride			Fe	mg/L	0.21	0.36	0.35	0.38	0.37	0.35	---	---	---	---	0.24	---	---	---	---	0.21	---	---	---	---	0.27	0.29	0.29	0.22	0.22	
Phosphorus			P	mg/L	1	1.5	0.011	< 0.003	< 0.003	0.055	< 0.003	< 0.003	---	---	< 0.003	---	---	---	---	< 0.003	---	---	---	---	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	
Sulphate			SO4	mg/L	73	180	140	96	64	54	52	60	100	130	130	96	87	84	72	69	58	57	52	53	96	130	220	94	55	
Nitrate (as N)			as N	mg/L	20	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Nitrite (as N)			as N	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
NH3+NH4			mg/L	16	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Cyanate			OCN	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Cyanide (total)			CN	mg/L	0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Cyanide (WAD)			CN	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Thiocyanate			SCN	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
DISSOLVED METALS																														
Aluminum			Al	mg/L	1	1	0.040	0.038	0.042	0.058	0.056	0.079	---	---	---	---	---	---	---	0.071	---	---	---	---	---	0.041	0.037	0.033	0.067	0.081
Antimony			Sb	mg/L	---	---	0.0025	0.0077	0.0060	0.0049	0.0051	0.0049	---	---	---	---	---	---	---	0.0028	---	---	---	---	---	0.0032	0.0058	0.0043	0.0026	0.0026
Arsenic			As	mg/L	0.3	0.1	0.016	0.034	0.046	0.036	0.043	0.043	---	---	---	---	---	---	---	0.063	---	---	---	---	---	0.081	0.076	0.086	0.092	0.104
Barium			Ba	mg/L	---	---	0.031	0.059	0.046	0.027	0.028	0.024	---	---	---	---	---	---	---	0.053	---	---	---	---	---	0.049	0.115	0.100	0.039	0.026
Beryllium			Be	mg/L	---	---	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	0.0000080	---	---	---	< 0.000007	---	---	---	---	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	
Bismuth			Bi	mg/L	---	---	< 0.000007	0.000013	< 0.000007	< 0.000007	< 0.000007	< 0.000007	---	---	---	0.000011	---	---	---	< 0.000007	---	---	---	---	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	
Boron			B	mg/L	---	---	0.023	0.073	0.065	0.063	0.037	0.024	---	---	---	0.022	---	---	---	0.013	---	---	---	---	---	0.014	0.028	0.024	0.012	0.013
Bromide			Br	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Cadmium			Cd	mg/L	0.002	0.002	0.000011	0.000060	0.000065	0.000020	0.000013	0.000017	---	---	---	0.000015	---	---	---	0.0000060	---	---	---	---	0.000011	0.000012	0.000024	0.000010	< 0.000003	
Calcium			Ca	mg/L	---	---	20	48	42	29	22	18	19	21	35	49	45	32	31	26	26	24	22	20	20	39	66	79	38	24
Chromium			Cr	mg/L	---	---	0.00039	0.000070	0.000070	0.000060	0.000090	< 0.00003	---	---	---	---	0.000040	---	---	---	0.000040	---	---	---	---	0.000040	0.000030	0.000040	0.000090	0.00009
Chromium VI			Cr(VI)	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Cobalt			Co	mg/L	---	---	0.00024	0.00079	0.00076	0.00042	0.00032	0.00027	---	---	---	0.00061	---	---	---	---	0.00026	---	---	---	---	0.00026	0.00046	0.00041	0.00030	0.00018
Copper			Cu	mg/L	0.1	0.1	0.0014	0.0023	0.0016	0.00096	0.00099	0.00046	---	---	---	0.00067	---	---	---	0.00016	---	---	---	---	---	0.00049	0.0009	0.00174	0.00049	0.00025
Iron			Fe	mg/L	---	---	0.0070	< 0.007	< 0.007	< 0.007	0.040	< 0.007	---	---	---	< 0.007	---	---	---	< 0.007	---	---	---	---	---	< 0.007	< 0.007	< 0.007	0.007	< 0.007
Lead			Pb	mg/L	0.1	0.1	0.00038	0.0013	0.00066	0.00025	0.00017	0.00014	---	---	---	0.00011	---	---	---	0.000030	---	---	---	---	---	0.000040	0.00013	0.00009	0.00006	0.00012
Lithium			Li	mg/L	---	---	0.0038	0.012	0.0098	0.0085	0.0072	0.0039	---	---	---	0.0083	---	---	---	0.0051	---	---	---	---	---	0.0062	0.0119	0.0090	0.0058	0.0046
Magnesium			Mg	mg/L	---	---	5.5	16	13	9.8	6.2	5.8	---	---	---	9.3	---	---	---	3.9	---	---	---	---	---	6.0	10	12.6	5.9	3.4
Manganese			Mn	mg/L	---	---	0.0093	0.060	0.052	0.039	0.028	0.022	---	---	---	0.049	---	---	---	0.020	---	---	---	---	---	0.024	0.040	0.037	0.014	0.007
Mercury			Hg	mg/L	0.0004	0.0004	0.000030	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum			Mo	mg/L	---	---	0.0055	0.020	0.020	0.014	0.010	0.0082	---	---	---	0.0048	---	---	---	0.0026	0.0048	---	---	---	---	0.0048	0.008	0.010	0.004	0.0033
Nickel			Ni	mg/L	0.2	0.2	0.0027	0.0082	0.0057	0.0041	0.0025	0.0017	---	---	---	0.0017	---	---	---	0.00060	---	---	---	---	---	0.00070	0.0011	0.0014	0.0008	0.0005
Potassium			K	mg/L	---	---	30	47	37	27	23	20	---	---	---	26	---	---	---	16	---	---	---	---	---	20	30	35	20	16
Selenium			Se	mg/L	---	---	0.0016	0.0037	0.0036	0.0017	0.0013	0.0021	---	---	---	0.0010	---	---	---	0.00062	---	---	---	---	---	0.00088	0.0012	0.0023	0.0007	0.0006
Silicon			Si	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Silver			Au	mg/L	---	---	< 0.000002	0.000041	0.0000030	< 0.000002	< 0.000002	< 0.000002	---	---	---	0.0000070	---	---	---	< 0.000002	---	---	---	---	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	
Sodium			Na	mg/L	---	---	8.2	14	10.0	6.9	4.8	3.9	---	---	---	2.2	---	---	---	1.2	0	0	0	---	---	1.2	1.9	2.3	1.1	0.8
Strontium			Sr	mg/L	---	---	0.11	0.30	0.24	0.15	0.14	0.10	---	---	---	0.24	---	---	---	0.13	---	---	---	---	---	0.22	0.34	0.42	0.19	0.13
Thallium			Th	mg/L	---	---	0.000028	0.000065	0.000073	0.000063	0.000024	0.000032	---	---	---	0.000044	---	---</												

Appendix F-1
Kinetic Testing Results
Waste Rock, Ore, and Tailings
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria ¹	Vault Effluent Criteria ²	Large Column - #5 Ultramafic (Ob)																						
					Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20		
PHYSICAL TESTS																											
Leachate Volume Added			mL			2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	750	750	750	1000 / flooded	2640		
Leachate Volume Recovered			mL			754	2456	2681	2710	2580	2737	2557	2678	2600	2692	2664	2650	2694	2663	2628	2652	760	772	765	3999	2750	
pH			-	6.0 - 9.0	6.0 - 9.0	8.4	8.1	8.1	8.1	7.9	8.1	8.1	7.9	8.0	8.1	8.0	7.9	8.1	8.0	8.0	8.1	8.0	8.2	8.1	8.1		
Conductivity			µS/cm			320	714	612	527	417	315	274	222	211	206	193	194	182	149	155	162	232	262	281	144	147	
ANIONS & NUTRIENTS																											
Acidity			as CaCO3	mg/L		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2		
Alkalinity			as CaCO4	mg/L		40	75	69	61	55	52	49	44	44	47	42	47	48	43	43	42	58	64	61	36	42	
Chloride			Cl	mg/L	1000	500	12	30	11	5.0	2.0	1.0	---	---	---	< 1	---	---	---	---	< 1	< 1	< 1	< 1	< 1	< 1	
Fluoride			Fe	mg/L		0.15	0.23	0.22	0.30	0.20	0.18	---	---	---	---	0.13	---	---	---	---	0.10	0.13	0.13	0.14	0.07	0.09	
Phosphorus			P	mg/L	1	1.5	0.0050	< 0.003	0.0050	0.0060	< 0.003	< 0.003	---	---	---	< 0.003	---	---	---	---	< 0.003	0.004	< 0.003	< 0.003	0.004	< 0.003	
Sulphate			SO4	mg/L		85	210	230	160	120	96	76	62	52	50	41	39	36	33	30	30	48	48	63	26	25	
Nitrate (as N)			as N	mg/L	20	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Nitrite (as N)			as N	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
NH3+NH4				mg/L	16	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Cyanate			OCN	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Cyanide (total)			CN	mg/L	0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Cyanide (WAD)			CN	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Thiocyanate			SCN	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
DISSOLVED METALS																											
Aluminum			Al	mg/L	1	1	0.024	0.016	0.020	0.023	0.029	0.036	---	---	---	0.039	---	---	---	---	0.042	0.025	0.028	0.028	0.048	0.047	
Antimony			Sb	mg/L			0.0046	0.014	0.015	0.016	0.014	0.014	---	---	---	0.0079	---	---	---	---	0.0072	0.010	0.011	0.012	0.006	0.007	
Arsenic			As	mg/L	0.3	0.1	0.069	0.68	1.1	1.5	2.1	2.1	---	---	---	1.8	---	---	---	---	2.0	2.87	3.0	3.3	2.2	2.3	
Barium			Ba	mg/L			0.090	0.088	0.053	0.041	0.043	0.040	---	---	---	0.035	---	---	---	---	0.035	0.066	0.075	0.082	0.036	0.037	
Beryllium			Be	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	
Bismuth			Bi	mg/L			< 0.000007	0.000023	0.0000080	0.0000080	< 0.000007	< 0.000007	---	---	---	< 0.000007	---	---	---	---	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	
Boron			B	mg/L			0.023	0.054	0.051	0.049	0.039	0.033	---	---	---	0.011	---	---	---	---	0.0090	0.014	0.012	0.013	0.008	0.010	
Bromide			Br	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Cadmium			Cd	mg/L	0.002	0.002	< 0.000003	0.000011	0.000021	0.000010	0.000030	0.000080	---	---	---	< 0.000003	---	---	---	---	< 0.000003	0.000006	< 0.000003	0.000005	0.0000030	< 0.000003	
Calcium			Ca	mg/L			22	50	54	41	33	26	21	17	16	15	13	12	13	12	12	18	22	23	12	12	
Chromium			Cr	mg/L			0.00046	0.00015	0.00011	0.00012	0.00013	0.00015	---	---	---	0.00019	---	---	---	---	0.00012	0.00014	0.00015	0.00015	0.00030	0.00018	
Chromium VI			Cr(VI)	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Cobalt			Co	mg/L			0.00022	0.0019	0.0025	0.0018	0.0015	0.0012	---	---	---	0.00054	---	---	---	---	0.00042	0.0008	0.0009	0.0010	0.0005	0.0004	
Copper			Cu	mg/L	0.1	0.1	0.00086	0.00083	0.00052	0.00050	0.00054	0.00050	---	---	---	0.00012	---	---	---	---	0.00027	0.00036	0.00046	0.00028	0.00025	0.00010	
Iron			Fe	mg/L			0.070	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	---	---	---	< 0.007	---	---	---	---	< 0.007	< 0.007	< 0.007	< 0.007	0.014	0.0080	
Lead			Pb	mg/L	0.1	0.1	0.00013	0.00035	0.00016	0.000060	0.000040	0.000070	---	---	---	< 0.00001	---	---	---	---	0.000010	0.00002	0.00001	0.000030	0.000040	0.000020	
Lithium			Li	mg/L			0.0052	0.0100	0.015	0.014	0.011	0.010	---	---	---	0.0060	---	---	---	---	0.0050	0.0071	0.008	0.008	0.005	0.005	
Magnesium			Mg	mg/L			7.9	25	22	17	13	11	---	---	---	4.8	---	---	---	---	4.1	6	8	9	4	4	
Manganese			Mn	mg/L			0.011	0.051	0.067	0.049	0.037	0.032	---	---	---	0.016	---	---	---	---	0.013	0.020	0.025	0.026	0.012	0.012	
Mercury			Hg	mg/L	0.0004	0.0004	< 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	
Molybdenum			Mo	mg/L			0.0070	0.024	0.018	0.017	0.013	0.0082	---	---	---	0.0028	---	---	---	---	0.0019	0.003	0.004	0.005	0.002	0.0017	
Nickel			Ni	mg/L	0.2	0.2	0.0042	0.036	0.034	0.024	0.017	0.011	---	---	---	0.0031	---	---	---	---	0.0018	0.003	0.004	0.005	0.002	0.002	
Potassium			K	mg/L			34	66	62	48	42	37	---	---	---	19	---	---	---	---	17	22	27	28	17	17	
Selenium			Se	mg/L			0.0023	0.0047	0.0040	0.0028	0.0019	0.0025	---	---	---	0.00093	---	---	---	---	0.0011	0.0012	0.0020	0.0016	0.0009	0.0009	
Silicon			Si	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Silver			Au	mg/L			0.0000060	0.000095	< 0.000002	0.0000040	< 0.000002	< 0.000002	---	---	---	< 0.000002	---	---	---	---	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	
Sodium			Na	mg/L			5.8	14	10	6.8	4.6	3.5	---	---	---	0.90	0	0	0	0	0.51	1	1	0.9	0.4	0.4	
Strontium			Sr	mg/L			0.19	0.37	0.38	0.26	0.22	0.18	---	---	---	0.092	---	---	---	---	0.081	0.13	0.14	0.16	0.08	0.08	
Thallium			Th	mg/L			0.000033	0.00010	0.00012	0.00010	0.00098	0.000087	---	---	---	0.000022	---	---	---	---	0.000041	0.00005	0.00007	0.00006	0.000042	0.000035	
Tin			Sn	mg/L			0.0025	0.00051	0.00030	0.00030	0.00024	0.00033	---	---	---	0.000030	---	---	---	---	0.00038	0.00011	0.00008	0.00007	0.00002	< 0.00001	
Titanium			Ti	mg/L			0.00046	0.000060	0.000060	0.00018	0.000090	0.00012	---	---	---	---	0.00025	---	---	---	---	0.00023	< 0.00005	0.000280	0.00012	0.000640	0.00025
Uranium			U	mg/L			0.00057	0.0100	0.013	0.0086	0.0059	0.0044	---	---	---	0.0024	---	---	---	---	0.0022	0.0046	0.006	0.0062	0.0022	0.0023	
Vanadium			V	mg/L			0.0032	0.0067	0.0088	0.011	0.014	0.014	---	---	---	0.012	---	---	---	---	0.011	0.0115	0.0128	0.013	0.012	0.011	
Zinc			Zn	mg/L	0.4	0.2	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	---	---	---	< 0.002	---	---	---	---	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	

Notes:

1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

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Appendix F-1
Kinetic Testing Results
Waste Rock, Ore, and Tailings
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria ¹	Vault Effluent Criteria ²	Large Column - #6 Chert (S10e)																				
					Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20
PHYSICAL TESTS																									
Leachate Volume Added			mL		2880	2880	2880	2880	2880	2880	2880	2880	2880	2880	2880	2880	2880	2880	2880	2880	750	750	750	1000 / flooded	2880
Leachate Volume Recovered			mL		670	2639	2944	2967	2815	3009	2772	2892	2871	2928	2894	2864	2900	2902	2856	2890	769	738	767	3964	2990
pH			-	6.0 - 9.0	8.3	8.2	8.1	8.1	7.9	8.0	8.0	7.8	7.8	7.6	7.8	7.7	7.7	7.7	7.8	7.7	7.9	8.0	7.8	7.7	7.7
Conductivity			µS/cm		521	1430	1480	1400	1190	1010	1040	1010	1190	1370	1440	1480	1390	1130	1250	1250	1630	2350	2470	1260	1200
ANIONS & NUTRIUENTS																									
Acidity			as CaCO3	mg/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity			as CaCO4	mg/L	50	120	99	90	72	69	75	74	72	74	65	65	66	56	61	62	86	90	88	56	65
Chloride			Cl	mg/L	1000	500	18	9.0	4.0	2.0	---	---	---	---	< 1	---	---	---	---	< 1	1	< 1	< 1	< 1	< 1
Fluoride			Fe	mg/L		0.29	0.63	0.71	0.74	0.69	0.72	---	---	---	---	0.45	---	---	---	---	0.41	0.48	0.51	0.48	0.44
Phosphorus			P	mg/L	1	1.5	0.0040	< 0.003	0.0090	0.0030	< 0.003	< 0.003	---	---	< 0.003	---	---	---	---	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Sulphate			SO4	mg/L		140	460	700	610	490	430	420	440	500	680	720	690	620	640	610	570	1100	1200	1500	640
Nitrate (as N)			as N	mg/L	20	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nitrite (as N)			as N	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NH3+NH4				mg/L	16	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanate			OCN	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (total)			CN	mg/L	0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide (WAD)			CN	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thiocyanate			SCN	mg/L		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DISSOLVED METALS																									
Aluminum			Al	mg/L	1	1	0.020	0.019	0.023	0.024	0.027	0.029	---	---	---	0.0080	---	---	---	---	0.0060	0.004	0.005	0.003	0.007
Antimony			Sb	mg/L			0.0072	0.021	0.015	0.012	0.0089	0.0076	---	---	---	0.0023	---	---	---	---	0.0016	0.002	0.002	0.0016	0.0015
Arsenic			As	mg/L	0.3	0.1	0.034	0.11	0.094	0.11	0.12	0.11	---	---	---	0.015	---	---	---	---	0.010	0.010	0.01	0.01	0.02
Barium			Ba	mg/L			0.016	0.048	0.039	0.032	0.028	0.025	---	---	---	0.033	---	---	---	---	0.023	0.050	0.061	0.064	0.026
Beryllium			Be	mg/L			< 0.000007	< 0.000007	< 0.000007	0.0000080	< 0.000007	< 0.000007	---	---	---	0.0000090	---	---	---	---	< 0.000007	0.000007	0.0000090	0.000008	0.000007
Bismuth			Bi	mg/L			0.000024	0.000010	0.0000090	0.000012	< 0.000007	< 0.000007	---	---	---	< 0.000007	---	---	---	---	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Boron			B	mg/L			0.052	0.14	0.15	0.13	0.11	0.10	---	---	---	0.054	---	---	---	---	0.037	0.06	0.06	0.07	0.04
Bromide			Br	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cadmium			Cd	mg/L	0.002	0.002	0.0000030	0.000020	0.000010	0.000011	0.000014	0.000028	---	---	---	0.00015	---	---	---	---	0.00014	0.000261	0.000327	0.000313	
Calcium			Ca	mg/L			19	48	78	80	82	82	104	120	172	204	231	232	238	227	211	216	406	527	
Chromium			Cr	mg/L			0.00013	< 0.00003	< 0.00003	< 0.00003	< 0.00003	< 0.00003	---	---	---	< 0.00003	---	---	---	---	< 0.00003	< 0.00003	< 0.00003	< 0.00003	
Chromium VI			Cr(VI)	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt			Co	mg/L			0.00016	0.0012	0.0021	0.0023	0.0025	0.0023	---	---	---	0.0072	---	---	---	---	0.0053	0.0126	0.0156	0.0152	
Copper			Cu	mg/L	0.1	0.1	0.00057	0.00031	0.00023	0.00036	0.00035	0.00034	---	---	---	0.00018	---	---	---	---	0.00042	0.00044	0.00078	0.00034	
Iron			Fe	mg/L			0.048	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	---	---	---	< 0.007	---	---	---	---	< 0.007	< 0.007	0.021	0.008	
Lead			Pb	mg/L	0.1	0.1	0.00017	0.00017	0.000080	0.000030	0.000040	0.000060	---	---	---	< 0.00001	---	---	---	---	< 0.00001	< 0.00001	< 0.00001	0.000020	
Lithium			Li	mg/L			0.0036	0.0054	0.0096	0.010	0.0095	0.0092	---	---	---	0.010	---	---	---	---	0.0074	0.0122	0.013	0.0136	
Magnesium			Mg	mg/L			4.7	19	26	24	21	20	---	---	---	18	---	---	---	---	10	19	26	13	
Manganese			Mn	mg/L			0.017	0.11	0.22	0.20	0.19	0.21	---	---	---	1.3	---	---	---	---	1.4	3.15	4.10	4.21	
Mercury			Hg	mg/L	0.0004	0.0004	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	---	---	---	< 0.00001	---	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	
Molybdenum			Mo	mg/L			0.0036	0.015	0.012	0.012	0.0096	0.0079	---	---	---	0.0020	---	---	---	---	0.0017	0.002	0.003	0.0029	
Nickel			Ni	mg/L	0.2	0.2	0.0037	0.027	0.031	0.028	0.025	0.021	---	---	---	0.045	---	---	---	---	0.030	0.071	0.085	0.088	
Potassium			K	mg/L			58	133	147	127	105	97	---	---	---	63	---	---	---	---	48	77	100	105	
Selenium			Se	mg/L			0.0016	0.0053	0.0050	0.0039	0.0025	0.0039	---	---	---	0.00088	---	---	---	---	0.0015	0.0009	0.0027	0.0018	
Silicon			Si	mg/L			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver			Au	mg/L			0.000014	0.000039	0.0000030	0.0000030	0.0000020	< 0.000002	---	---	---	< 0.000002	---	---	---	---	< 0.000002	< 0.000002	0.0000020	0.0000020	
Sodium			Na	mg/L			38	148	140	109	78	66	---	---	---	22	---	0	0	0	10	19	24	24	
Strontium			Sr	mg/L			0.12	0.26	0.38	0.33	0.32	0.31	---	---	---	0.65	---	---	---	---	0.57	1.14	1.42	1.54	
Thallium			Th	mg/L			< 0.000005	0.000015	0.000022	0.000022	0.000036	0.000034	---	---	---	< 0.000005	---	---	---	---	0.0000080	0.000017	0.000025	0.000019	
Tin			Sn	mg/L			0.0050	0.00070	0.00037	0.00035	0.00026	0.00034	---	---	---	0.000040	---	---	---	---	0.000070	0.00006	0.00132	0.00005	
Titanium			Ti	mg/L			0.00080	0.000060	< 0.00005	0.00013	< 0.00005	< 0.00005	---	---	---	< 0.00005	---	---	---	---	< 0.00005	< 0.00005	< 0.00005	< 0.00005	
Uranium			U	mg/L			0.0012	0.015	0.016	0.011	0.0080	0.0070	---	---	---	0.0067	---	---	---	---	0.0031	0.006	0.007	0.0059	
Vanadium			V	mg/L			0.00034	0.00033	0.00030	0.00031	0.00035	0.00038	---	---	---	0.000090	---	---	---	---	0.000040	0.00005	0.00004	0.00004	
Zinc			Zn	mg/L	0.4	0.2	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	---	---	---	0.0050	---	---	---	---	0.0040	0.011	0.011	0.011	

Notes:

1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA15

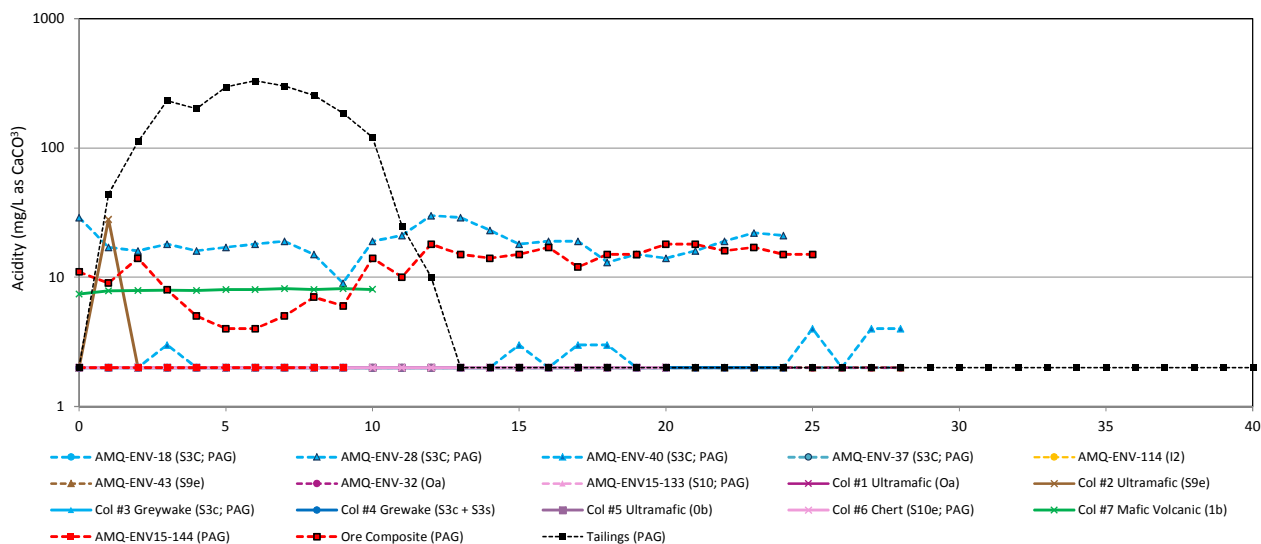
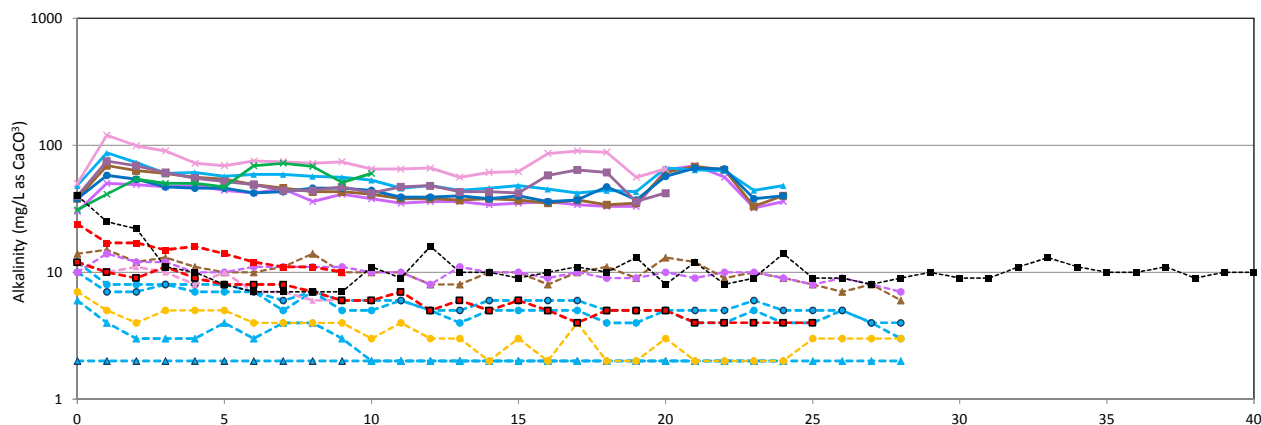
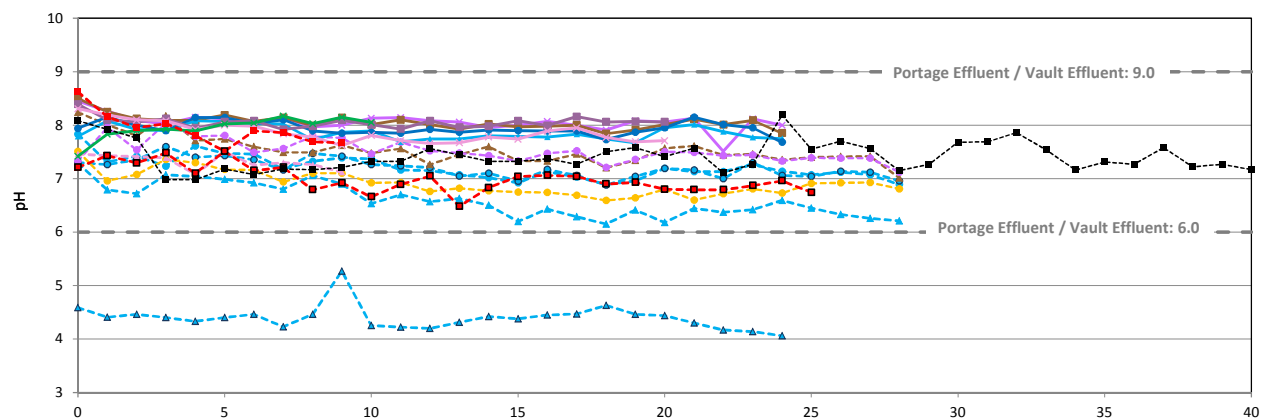
Parameter			Portage Effluent Criteria ¹	Vault Effluent Criteria ²	Large Column - #7 Mafic Volcanic (1b)										
					Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
PHYSICAL TESTS															
Leachate Volume Added		mL			2030	2030	2030	2030	2030	2030	750	750	750	flooded / 400	2030
Leachate Volume Recovered		mL			269	1372	1989	2083	2082	2016	750	752	781	3865	2190
pH		-	6.0 - 9.0	6.0 - 9.0	7.4	7.8	7.9	7.9	7.9	8.0	8.0	8.2	8.0	8.2	8.1
Conductivity		µS/cm			289	526	821	570	468	366	486	449	440	238	236
ANIONS & NUTRIUENTS															
Acidity		as CaCO3	mg/L		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity		as CaCO4	mg/L		31	41	54	50	50	47	69	72	68	51	60
Chloride		Cl	mg/L	1000	500	3.0	9.0	9.0	6.0	***	2.0	2.0	1.0	1.0	< 1
Fluoride		Fe	mg/L		0.20	0.25	0.37	0.32	0.31	0.30	0.45	0.45	0.46	0.32	0.40
Phosphorus		P	mg/L	1	1.5	0.010	< 0.003	0.016	0.012	0.018	0.012	0.014	0.019	0.020	0.022
Sulphate		SO4	mg/L		92	180	300	260	160	100	150	110	130	55	58
Nitrate (as N)		as N	mg/L	20	50	---	---	---	---	---	---	---	---	---	---
Nitrite (as N)		as N	mg/L		---	---	---	---	---	---	---	---	---	---	---
NH3+NH4		mg/L	16	20	---	---	---	---	---	---	---	---	---	---	---
Cyanate		OCN	mg/L		---	---	---	---	---	---	---	---	---	---	---
Cyanide (total)		CN	mg/L	0.5	---	---	---	---	---	---	---	---	---	---	---
Cyanide (WAD)		CN	mg/L		---	---	---	---	---	---	---	---	---	---	---
Thiocyanate		SCN	mg/L		---	---	---	---	---	---	---	---	---	---	---
DISSOLVED METALS															
Aluminum		Al	mg/L	1	1	0.030	0.016	0.013	0.015	0.018	0.024	0.012	0.015	0.017	0.029
Antimony		Sb	mg/L			0.0014	0.0037	0.0051	0.0049	0.0051	0.0051	0.0072	0.0082	0.0083	0.0065
Arsenic		As	mg/L	0.3	0.1	0.0058	0.10	0.26	0.32	0.39	0.43	0.67	0.75	0.90	0.86
Barium		Ba	mg/L			0.12	0.094	0.084	0.071	0.063	0.049	0.058	0.057	0.055	0.067
Beryllium		Be	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth		Bi	mg/L			< 0.000007	< 0.000007	< 0.000007	0.0000090	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Boron		B	mg/L			0.012	0.022	0.038	0.045	0.029	0.025	0.034	0.032	0.034	0.023
Bromide		Br	mg/L			---	---	---	---	---	---	---	---	---	---
Cadmium		Cd	mg/L	0.002	0.002	0.000024	0.000034	0.000026	0.000015	< 0.000003	0.0000030	0.0000090	0.000015	0.000011	0.000004
Calcium		Ca	mg/L			33	48	80	69	42	31	44	42	42	23
Chromium		Cr	mg/L			0.00010	0.00013	0.00014	0.00013	0.00017	0.00020	0.00030	0.00034	0.00041	0.00041
Chromium VI		Cr(VI)	mg/L			---	---	---	---	---	---	---	---	---	---
Cobalt		Co	mg/L			0.00040	0.0010	0.0023	0.0020	0.0014	0.00088	0.0013	0.0012	0.0012	0.0006
Copper		Cu	mg/L	0.1	0.1	0.0011	0.0025	0.0030	0.0021	0.0013	0.0011	0.0014	0.0013	0.0013	0.0008
Iron		Fe	mg/L			< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	0.008	0.011
Lead		Pb	mg/L	0.1	0.1	0.0010	0.0013	0.00083	0.00040	0.00018	0.00013	0.00017	0.0002	0.00017	0.00010
Lithium		Li	mg/L			0.0062	0.012	0.019	0.020	0.015	0.012	0.017	0.017	0.017	0.011
Magnesium		Mg	mg/L			6.4	12	22	19	13	8.7	12	12	12	6
Manganese		Mn	mg/L			0.028	0.028	0.051	0.043	0.029	0.022	0.029	0.028	0.028	0.014
Mercury		Hg	mg/L	0.0004	0.0004	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum		Mo	mg/L			0.0032	0.013	0.016	0.015	0.014	0.011	0.018	0.017	0.018	0.008
Nickel		Ni	mg/L	0.2	0.2	0.0029	0.010	0.020	0.019	0.012	0.0076	0.012	0.010	0.011	0.005
Potassium		K	mg/L			25	34	48	44	36	29	37	39	42	28
Selenium		Se	mg/L			0.0094	0.021	0.031	0.024	0.012	0.0077	0.0095	0.009	0.009	0.005
Silicon		Si	mg/L			---	---	---	---	---	---	---	---	---	---
Silver		Au	mg/L			< 0.000002	< 0.000002	0.000011	0.0000060	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	0.00000
Sodium		Na	mg/L			3.0	5.5	8.2	7.0	4.9	3.4	4.3	4.4	4.5	2.2
Strontium		Sr	mg/L			0.22	0.39	0.66	0.54	0.37	0.27	0.41	0.37	0.39	0.21
Thallium		Th	mg/L			0.000058	0.000055	0.000086	0.000072	0.000067	0.000050	0.000068	0.000075	0.000067	0.000042
Tin		Sn	mg/L			0.0029	0.0015	0.00072	0.00052	0.00044	0.00029	0.00034	0.0003	0.00036	0.00019
Titanium		Ti	mg/L			0.00013	0.00010	< 0.00005	< 0.00005	0.00036	0.00013	0.00012	0.00030	0.00027	0.0005
Uranium		U	mg/L			0.00071	0.0066	0.013	0.010	0.0075	0.0055	0.010	0.0090	0.008	0.003
Vanadium		V	mg/L			0.0030	0.0090	0.013	0.015	0.017	0.018	0.018	0.0220	0.023	0.024
Zinc		Zn	mg/L	0.4	0.2	0.0020	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Notes:

1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

1.0	Exceeds the Portage Effluent Guideline.
1.0	Result exceeds the Vault Effluent Guideline.
1.0	Exceeds Portage and Vault Effluent Guidelines.



Notes:

..... 1 kg HCT
 — 40-60 kg Column Tests
 Portage NWB Effluent Limit (NWB, 2015)
 Vault NWB Effluent Limit (NWB, 2015)
 Values < MDL are plotted as MDL value

Rock Type:

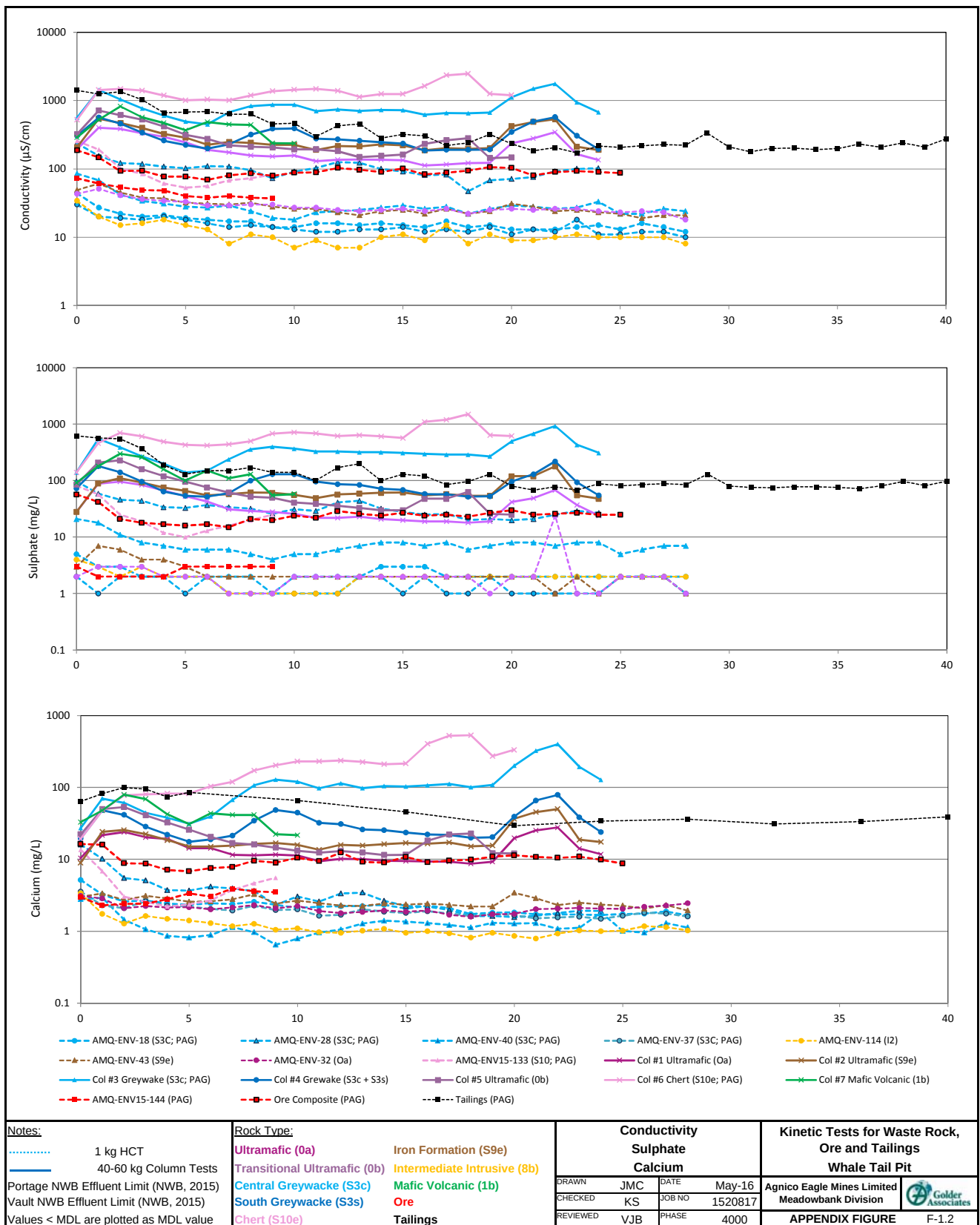
Ultramafic (0a)
Transitional Ultramafic (Ob)
Central Greywacke (S3c)
South Greywacke (S3s)
Chert (S10e)
Iron Formation (S9e)
Intermediate Intrusive (8b)
Mafic Volcanic (1b)
Ore
Tailings

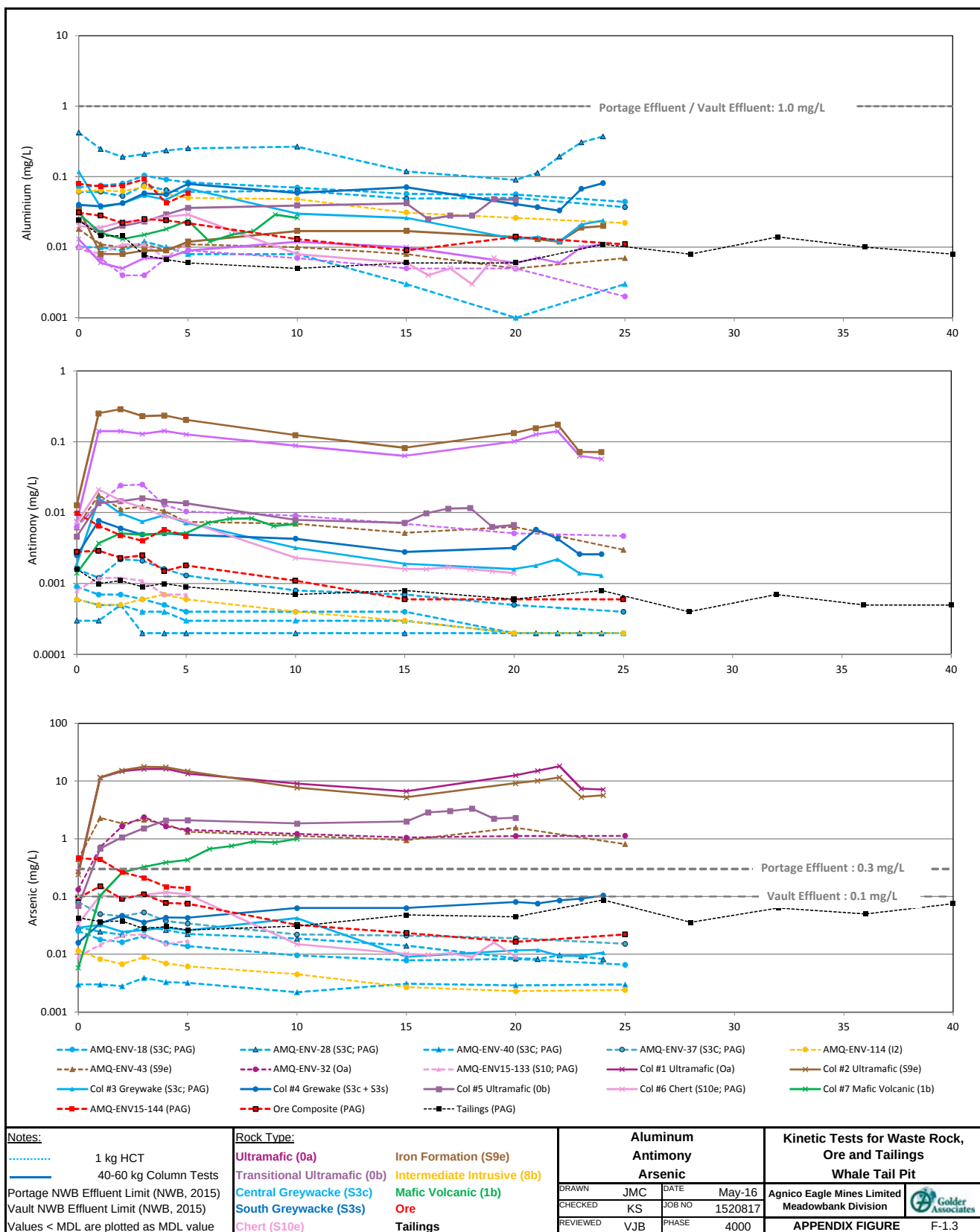
pH Alkalinity Acidity

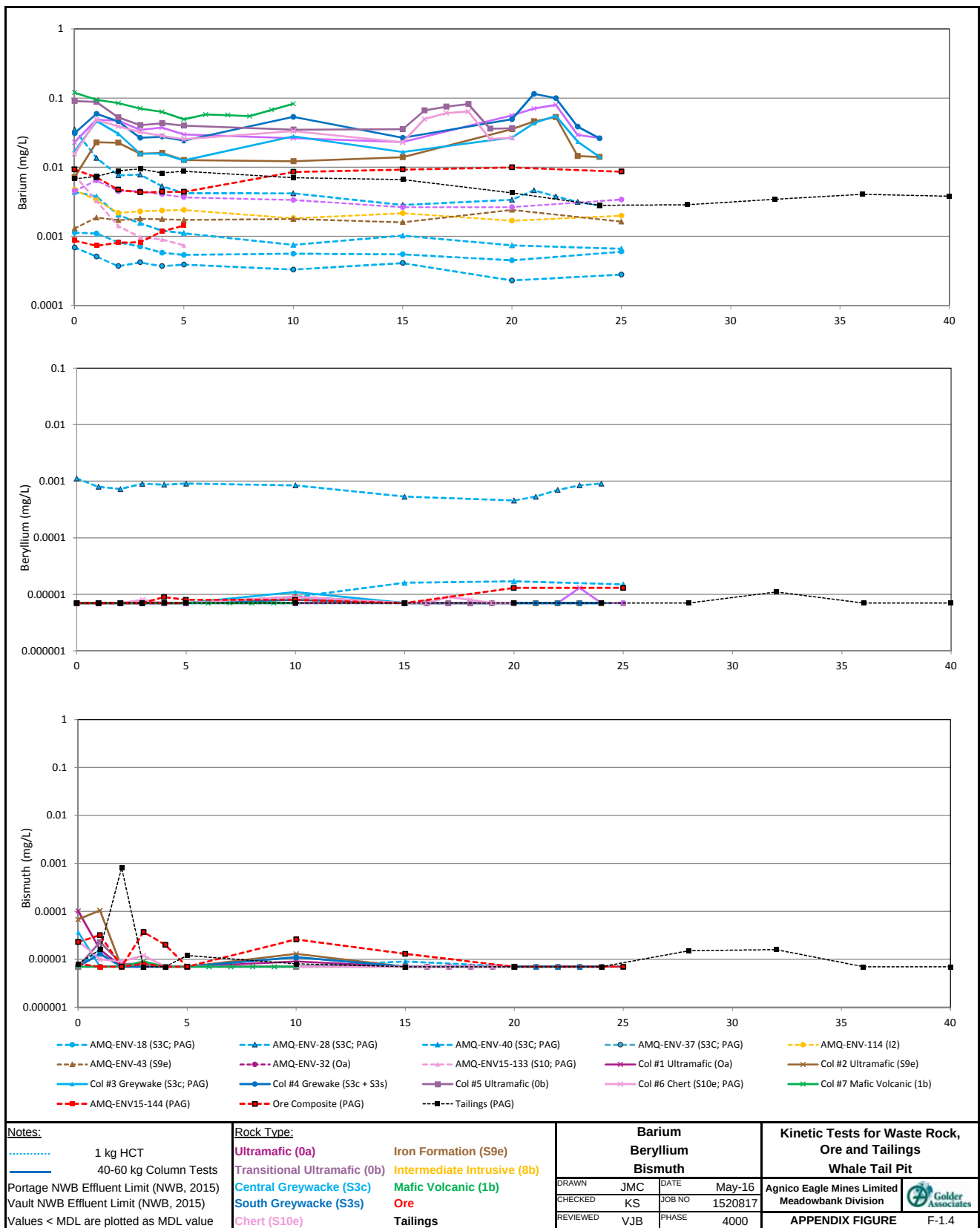
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CHECKED	KS	JOB NO	1520817
REVIEWED	VJB	PHASE	4000

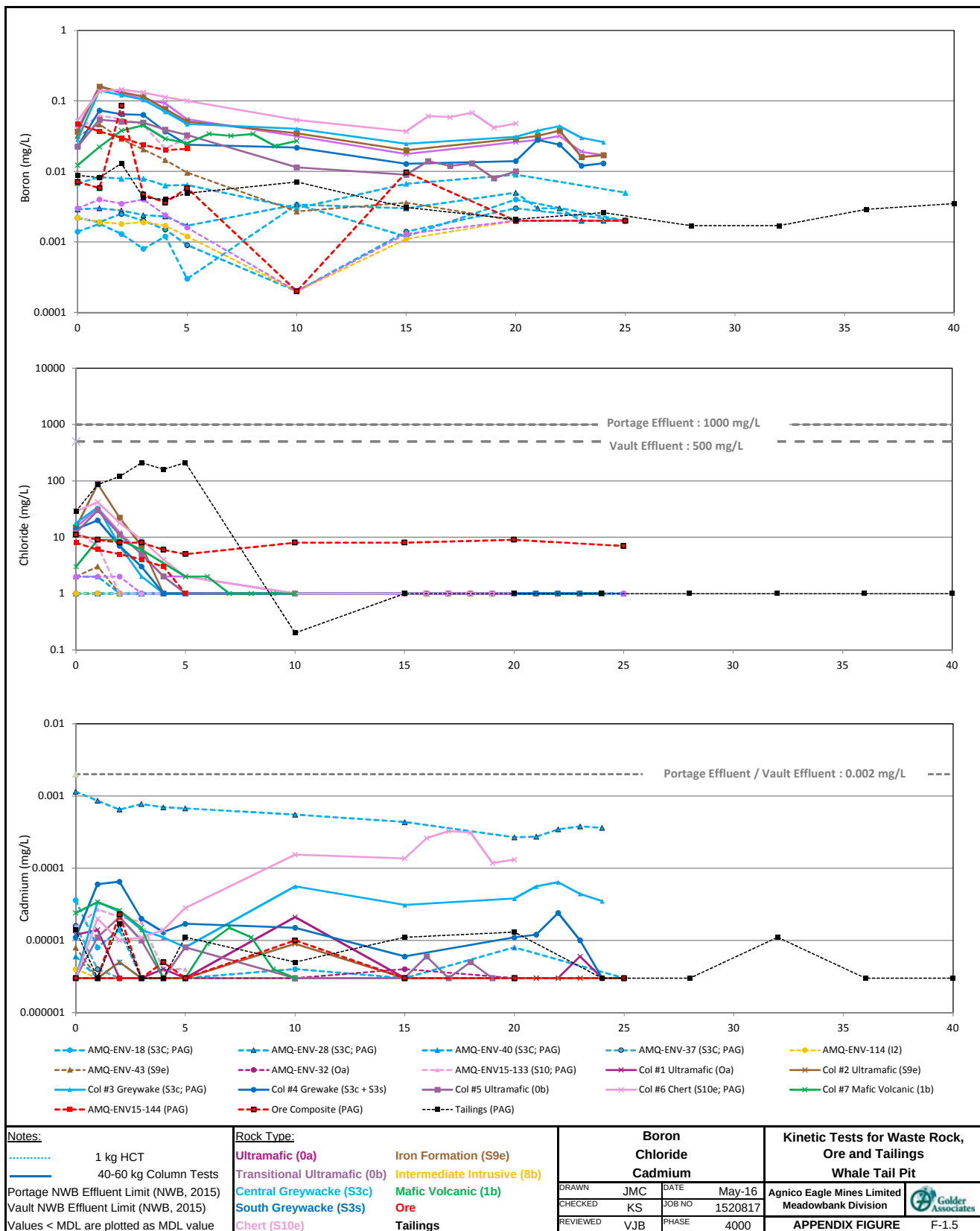
Kinetic Tests for Waste Rock, Ore and Tailings Whale Tail Pit

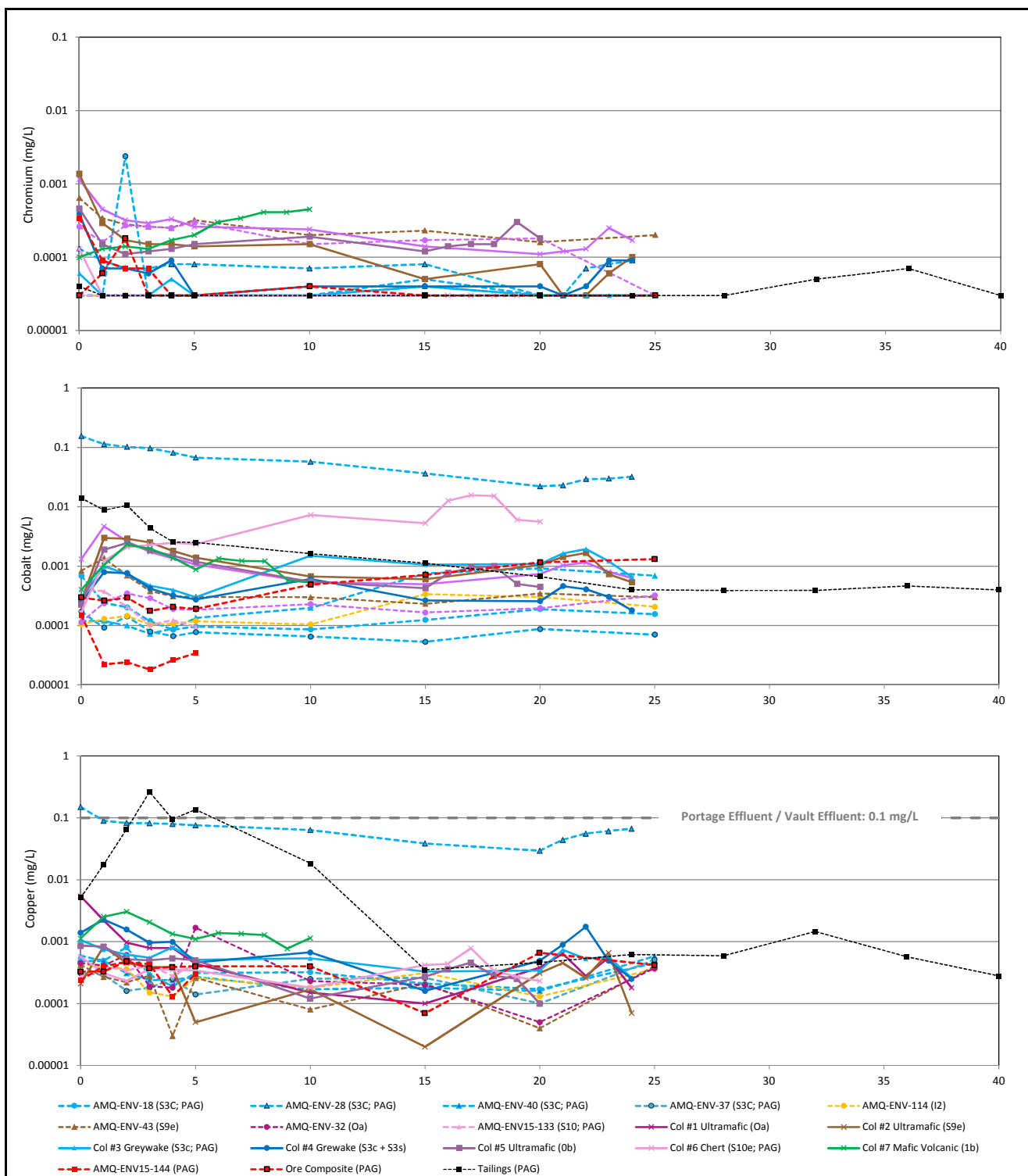
Agnico Eagle Mines Limited Meadowbank Division	
APPENDIX FIGURE	F-1.1



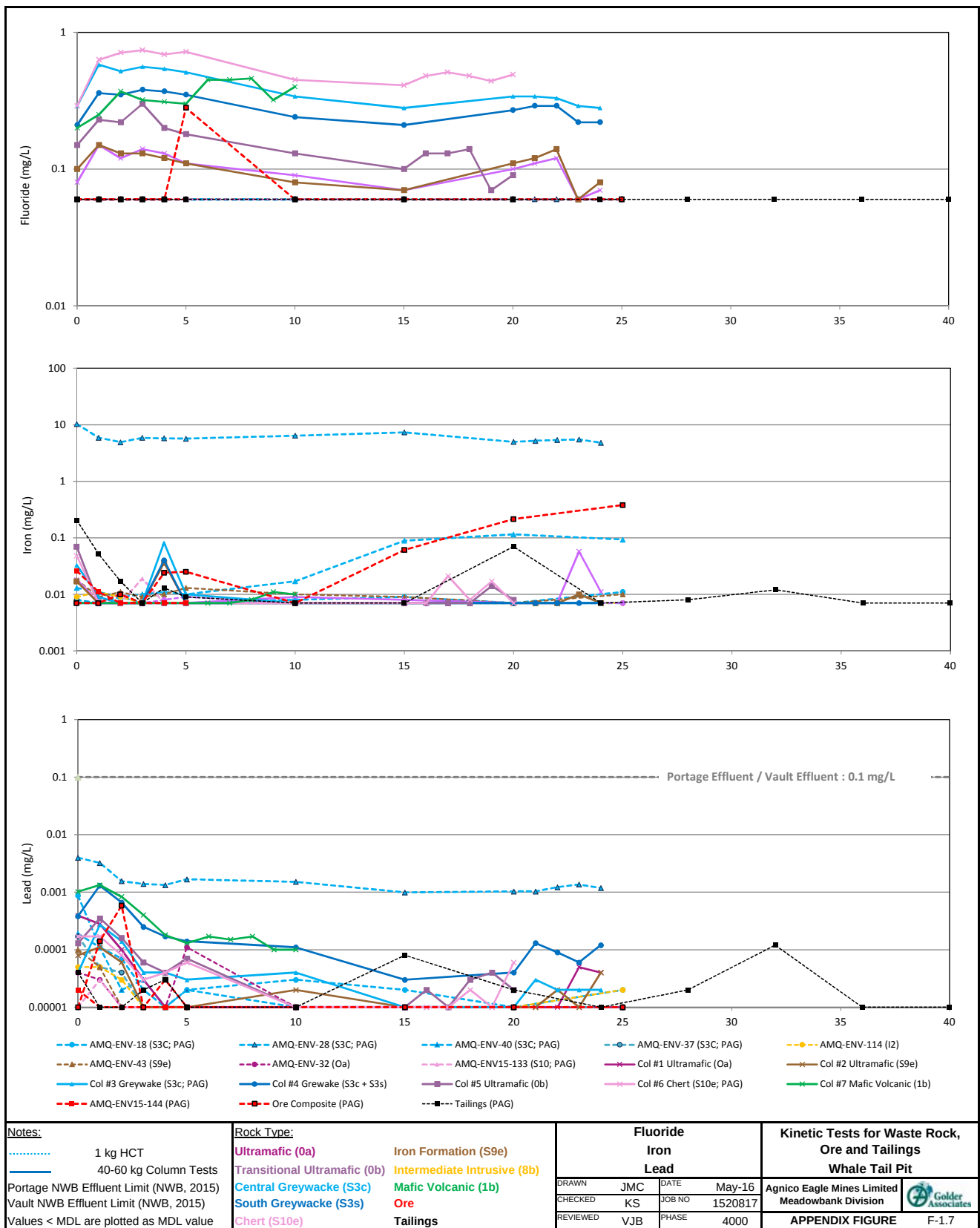


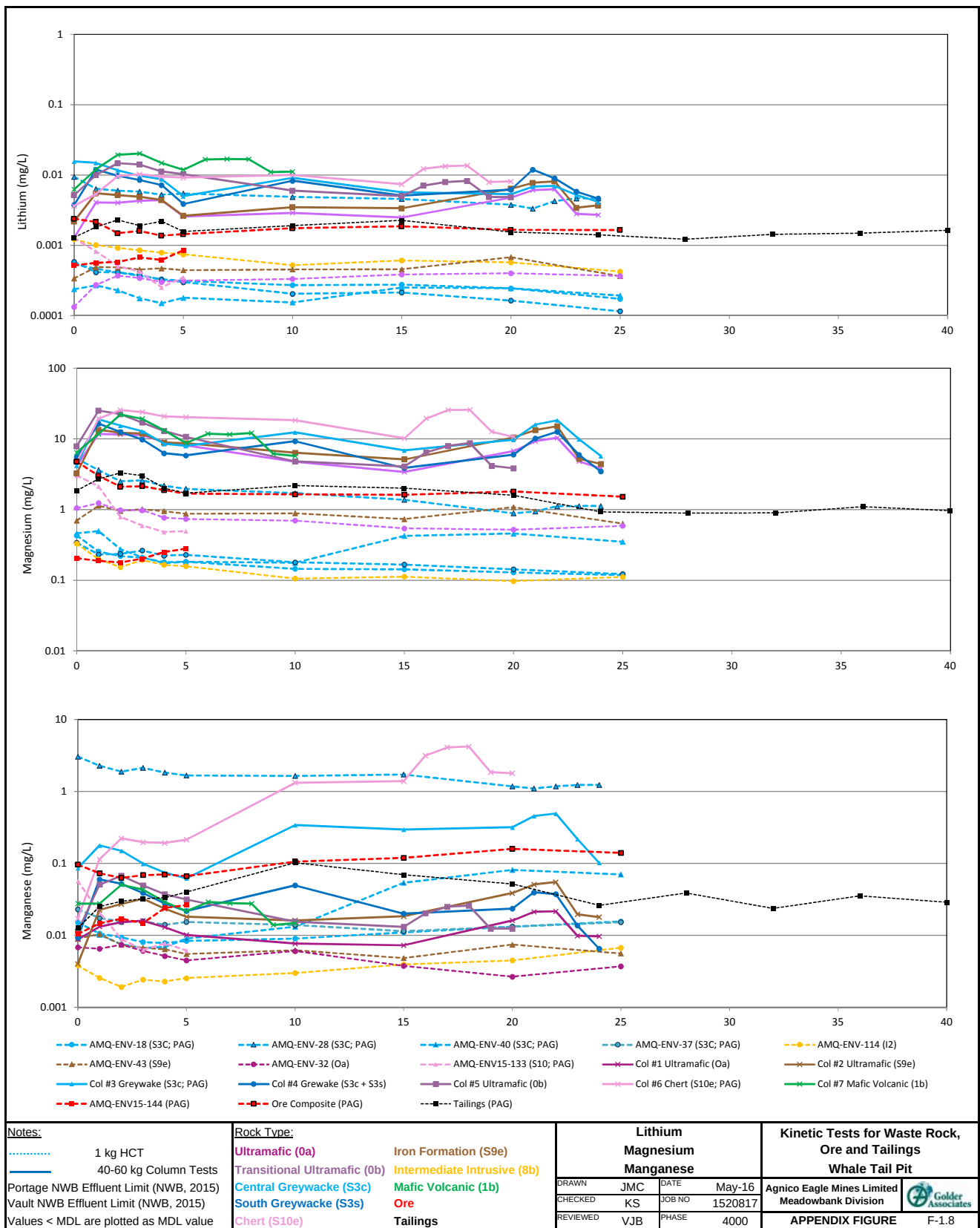


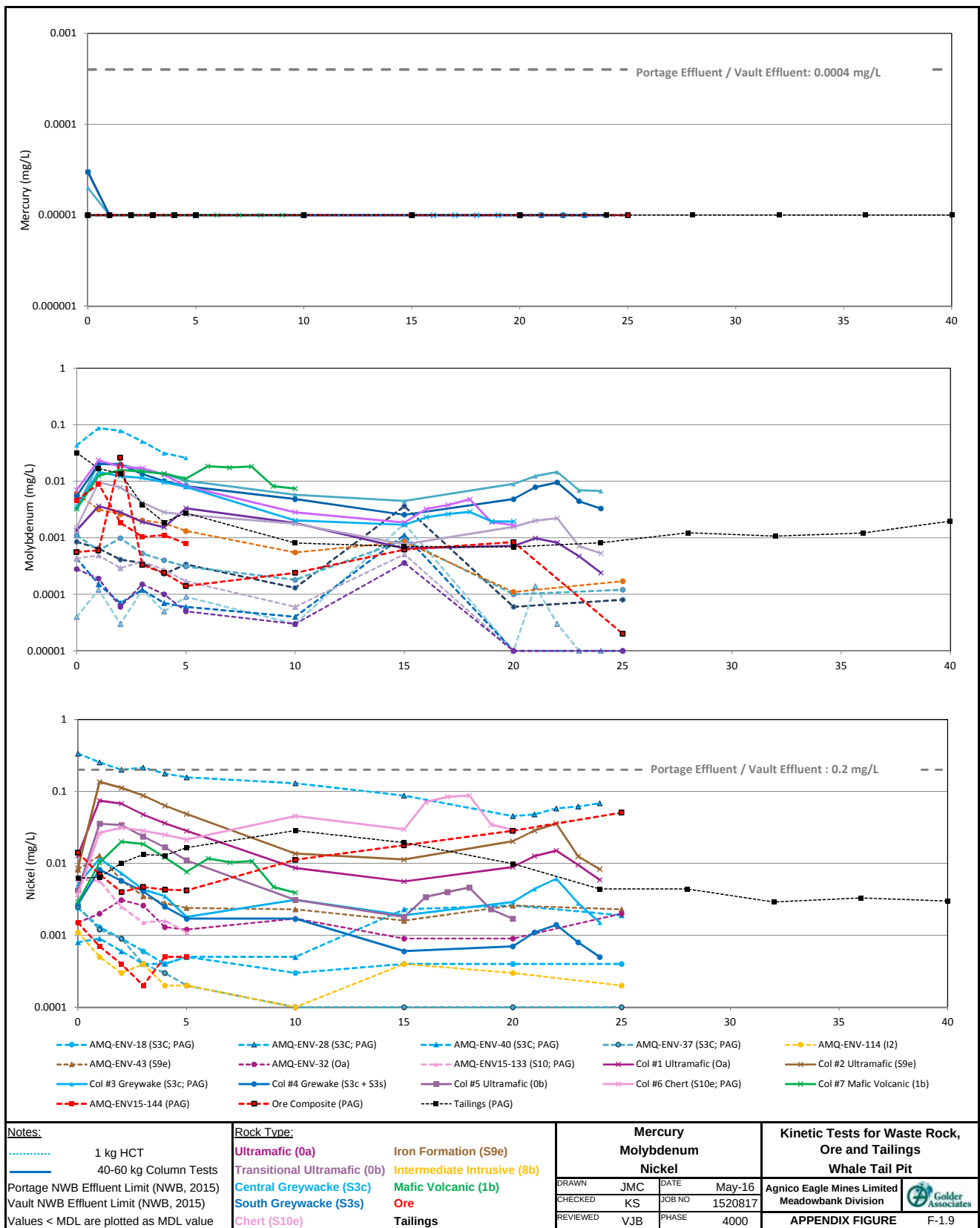


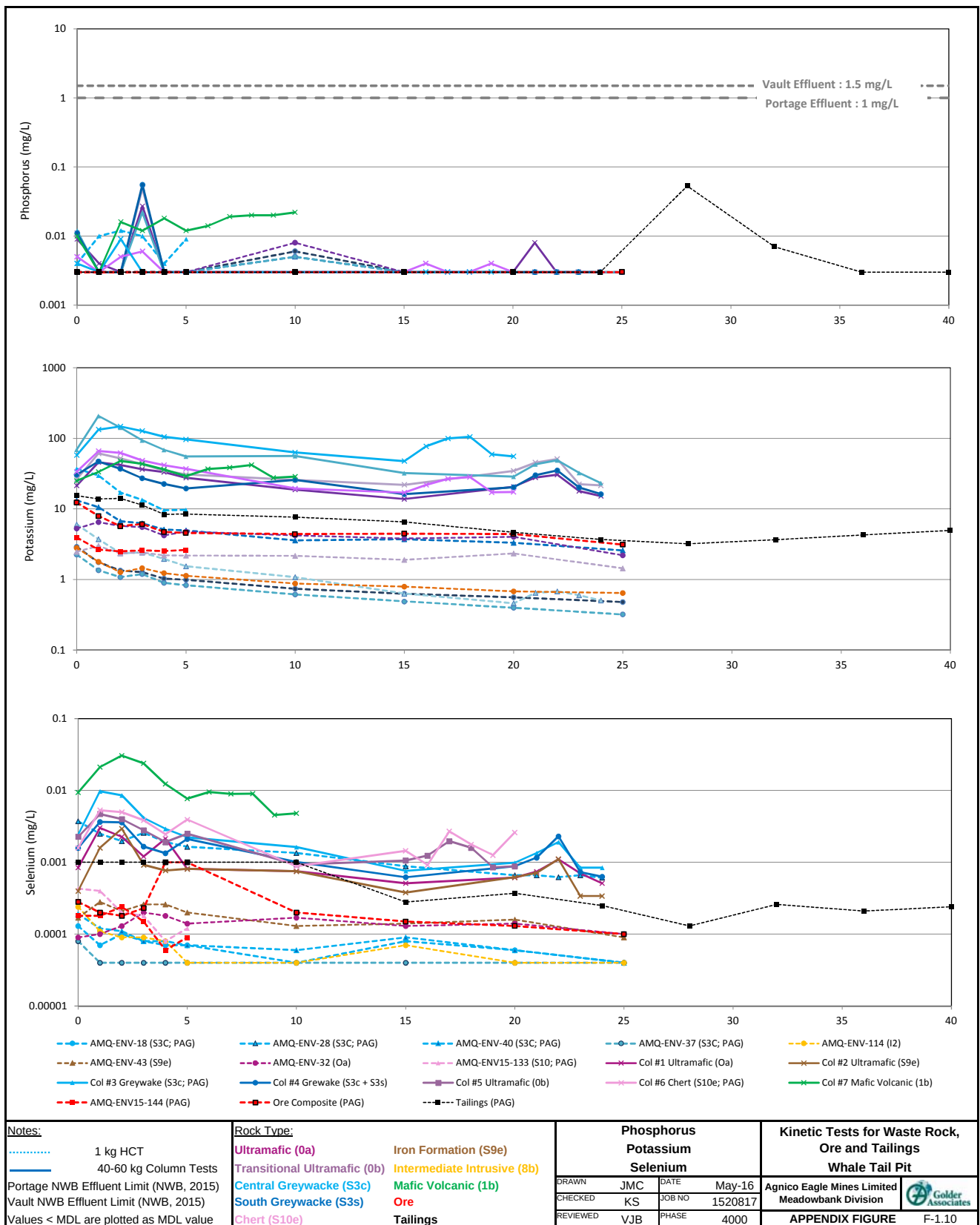


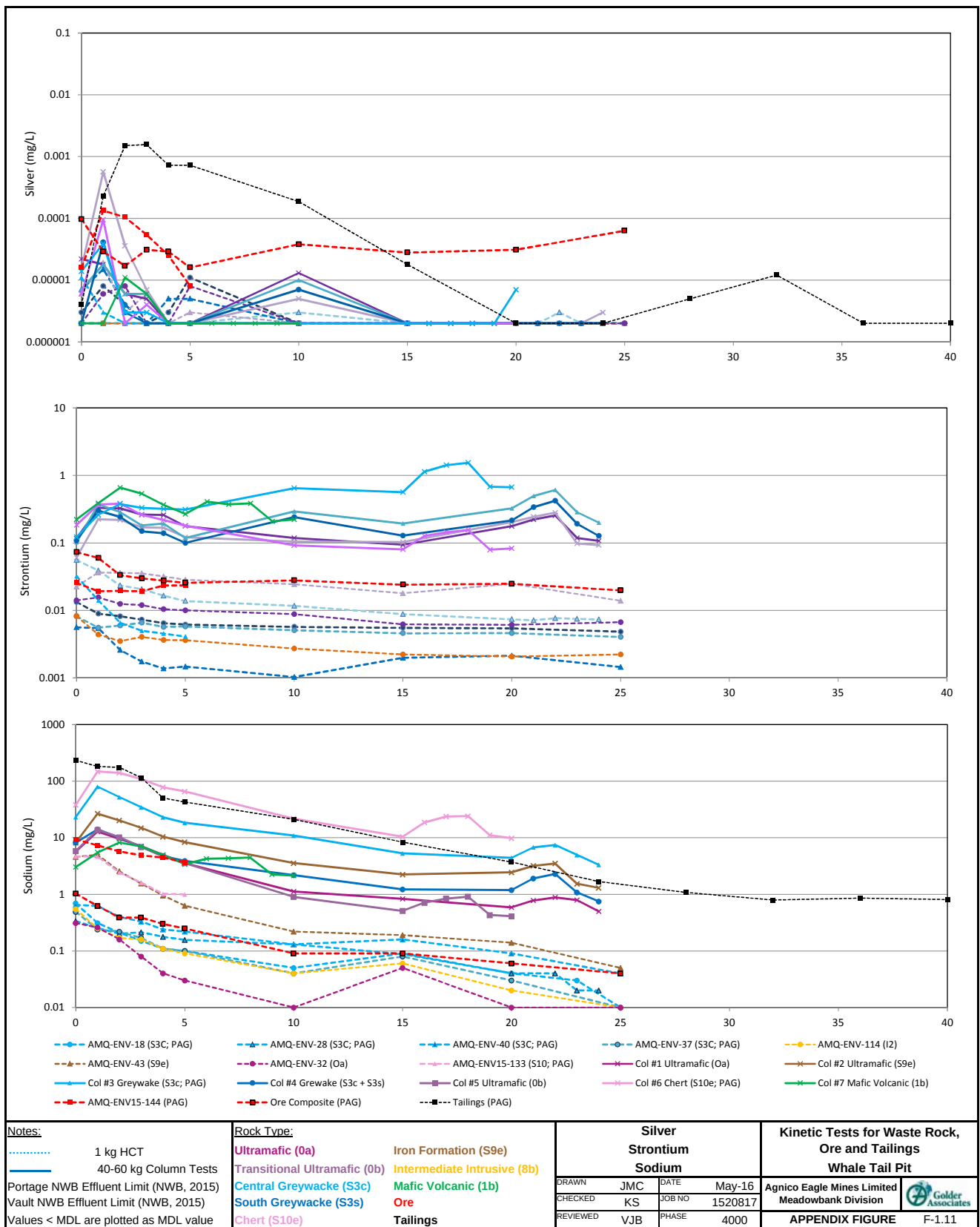
Notes: 1 kg HCT —— 40-60 kg Column Tests Portage NWB Effluent Limit (NWB, 2015) Vault NWB Effluent Limit (NWB, 2015) Values < MDL are plotted as MDL value	Rock Type: Ultramafic (0a) Transitional Ultramafic (0b) Central Greywacke (S3c) South Greywacke (S3s) Chert (S10e)		Iron Formation (S9e) Intermediate Intrusive (8b) Mafic Volcanic (1b) Ore Tailings		Chromium Cobalt Copper		Kinetic Tests for Waste Rock, Ore and Tailings Whale Tail Pit	
	DRAWN		JMC		DATE		May-16	
	CHECKED		KS		JOB NO		1520817	
	REVIEWED		VJB		PHASE		4000	
							Agnico Eagle Mines Limited	
							Meadowbank Division	
						APPENDIX FIGURE		
						F-1.6		

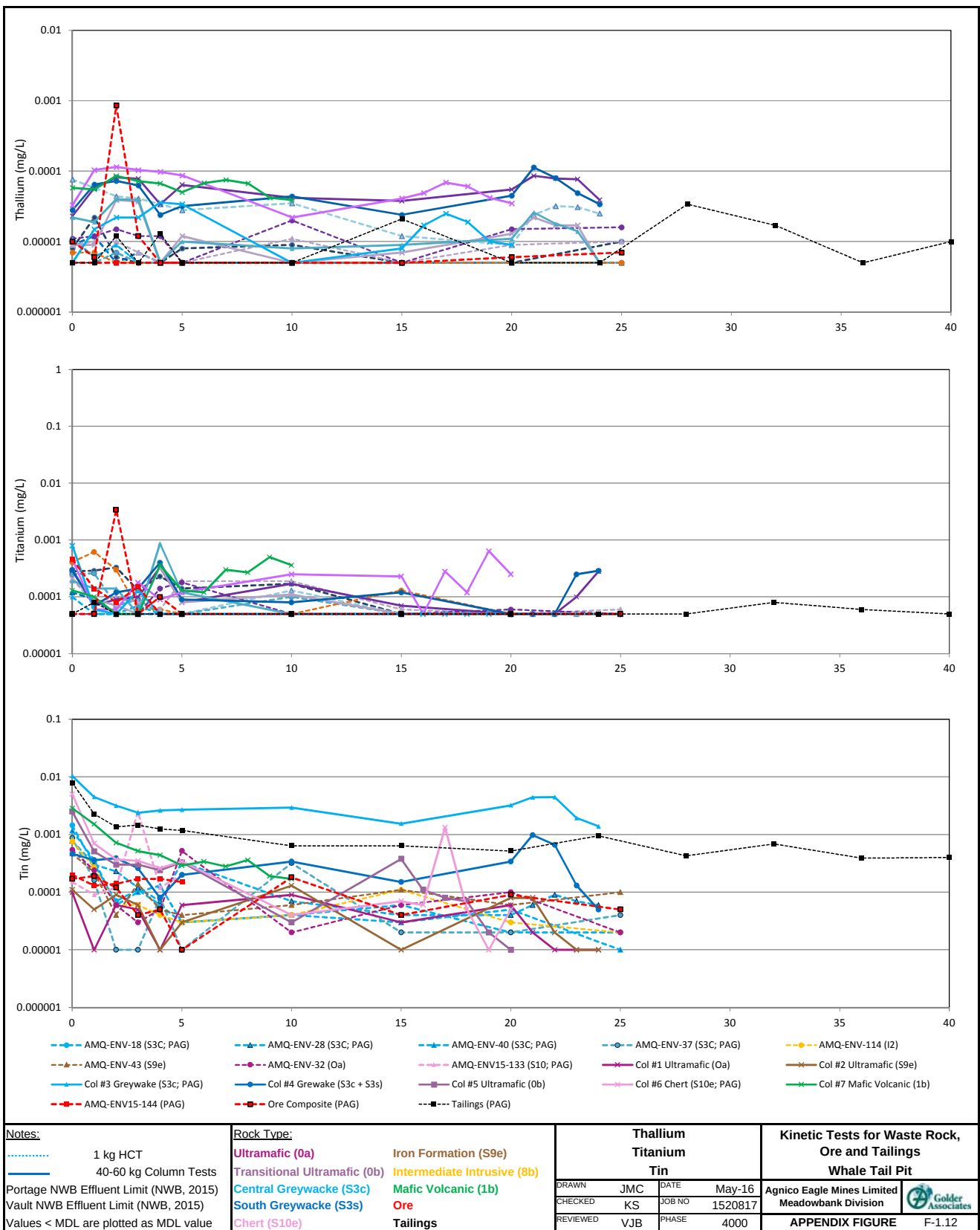


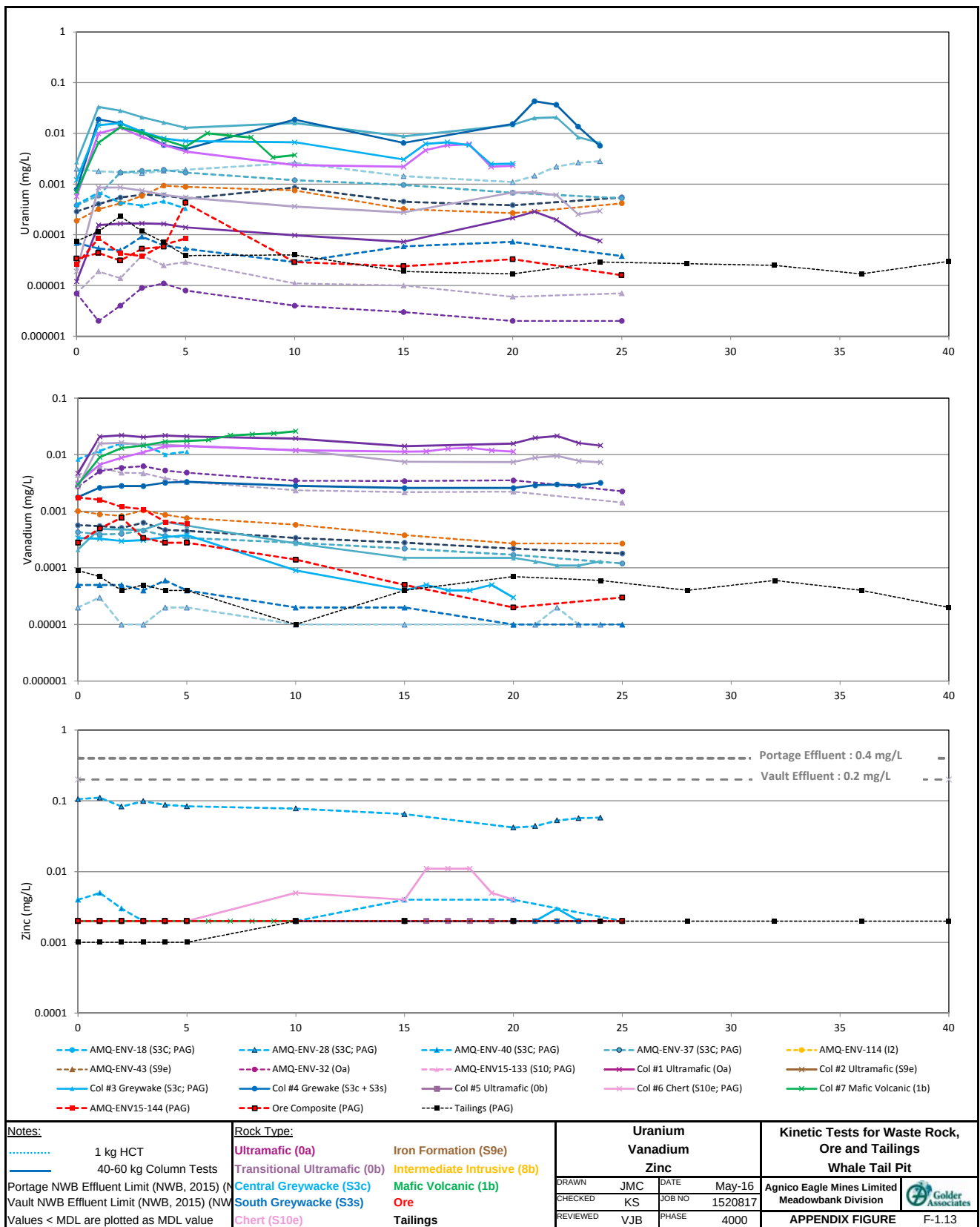


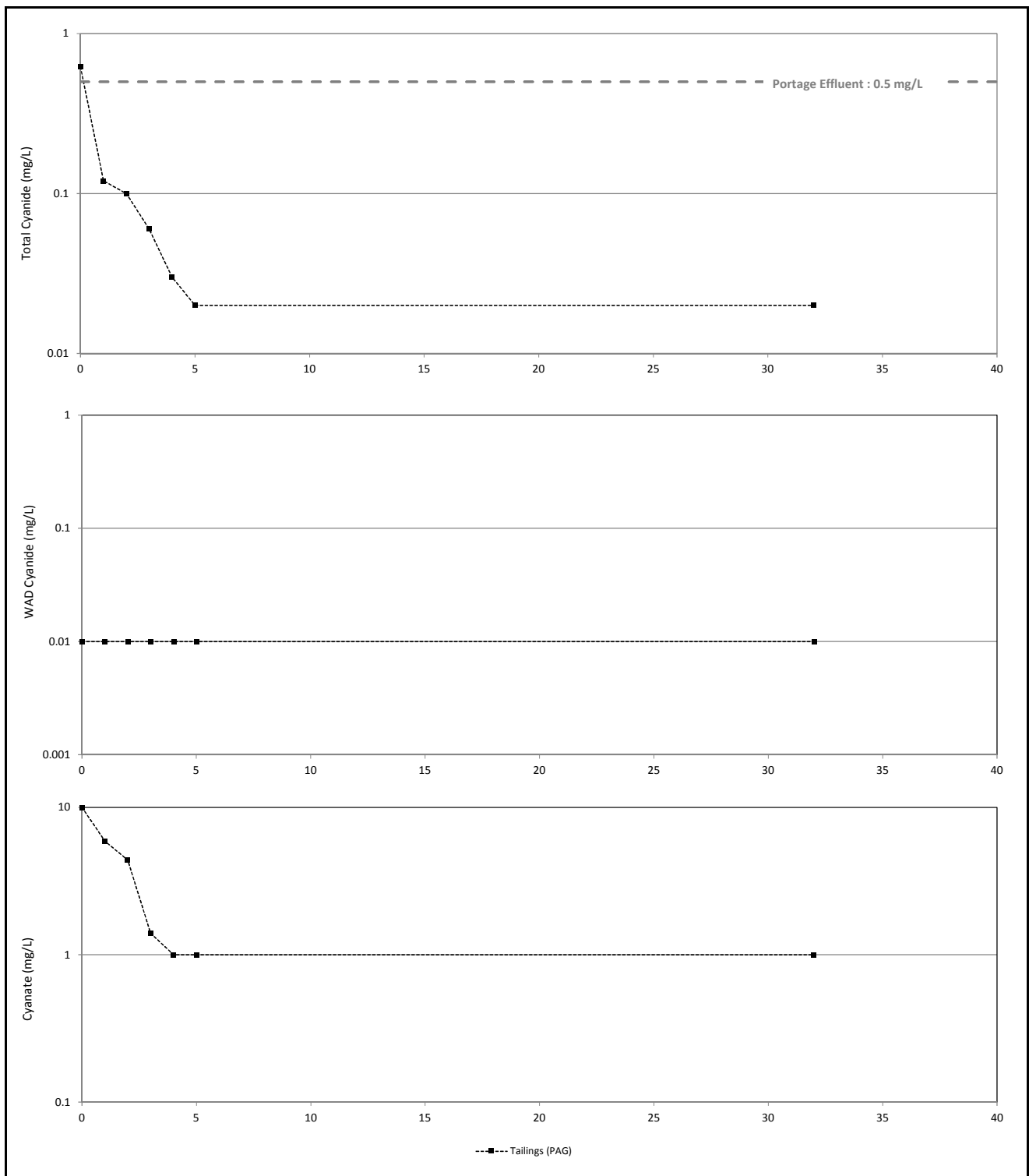




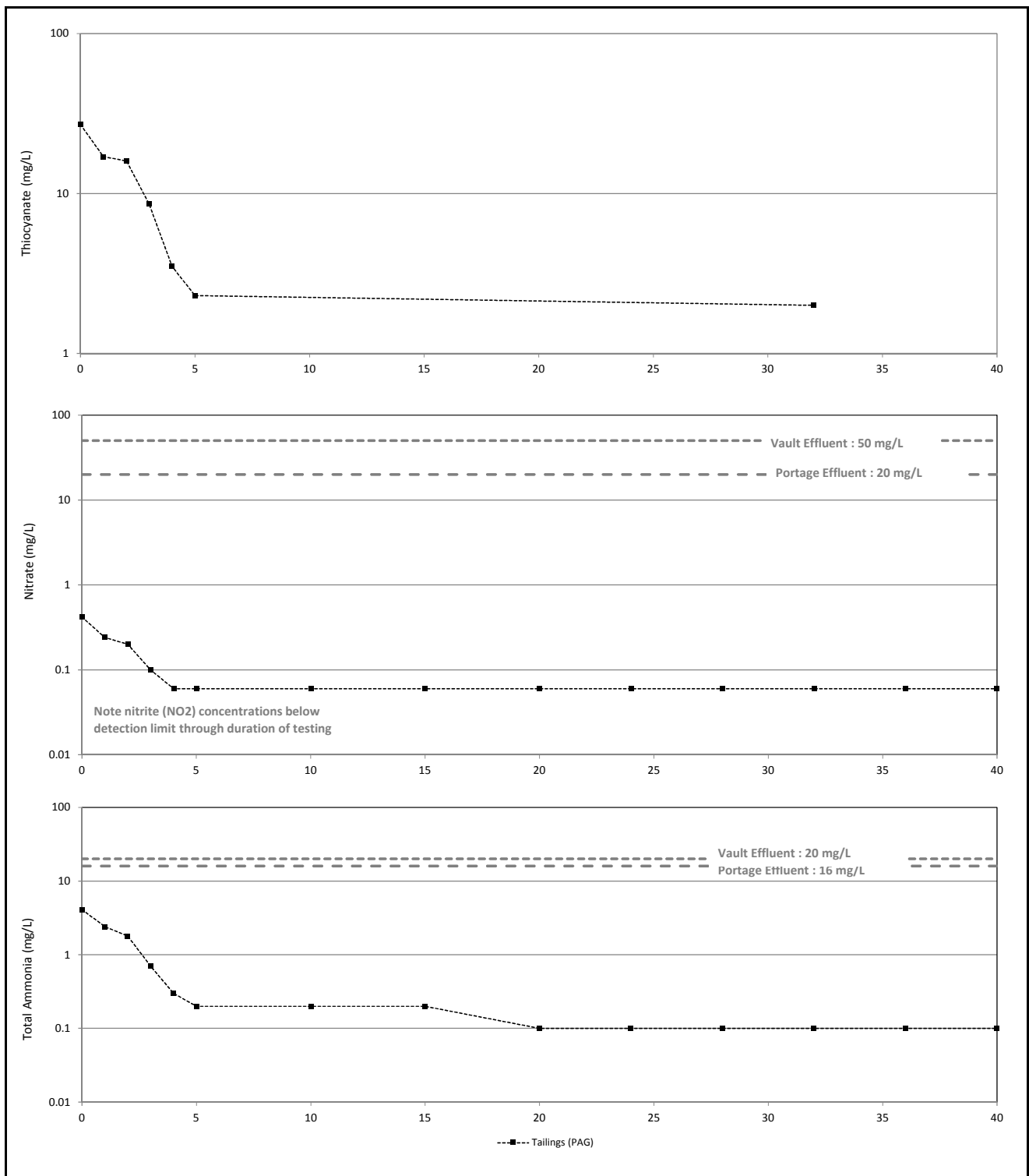




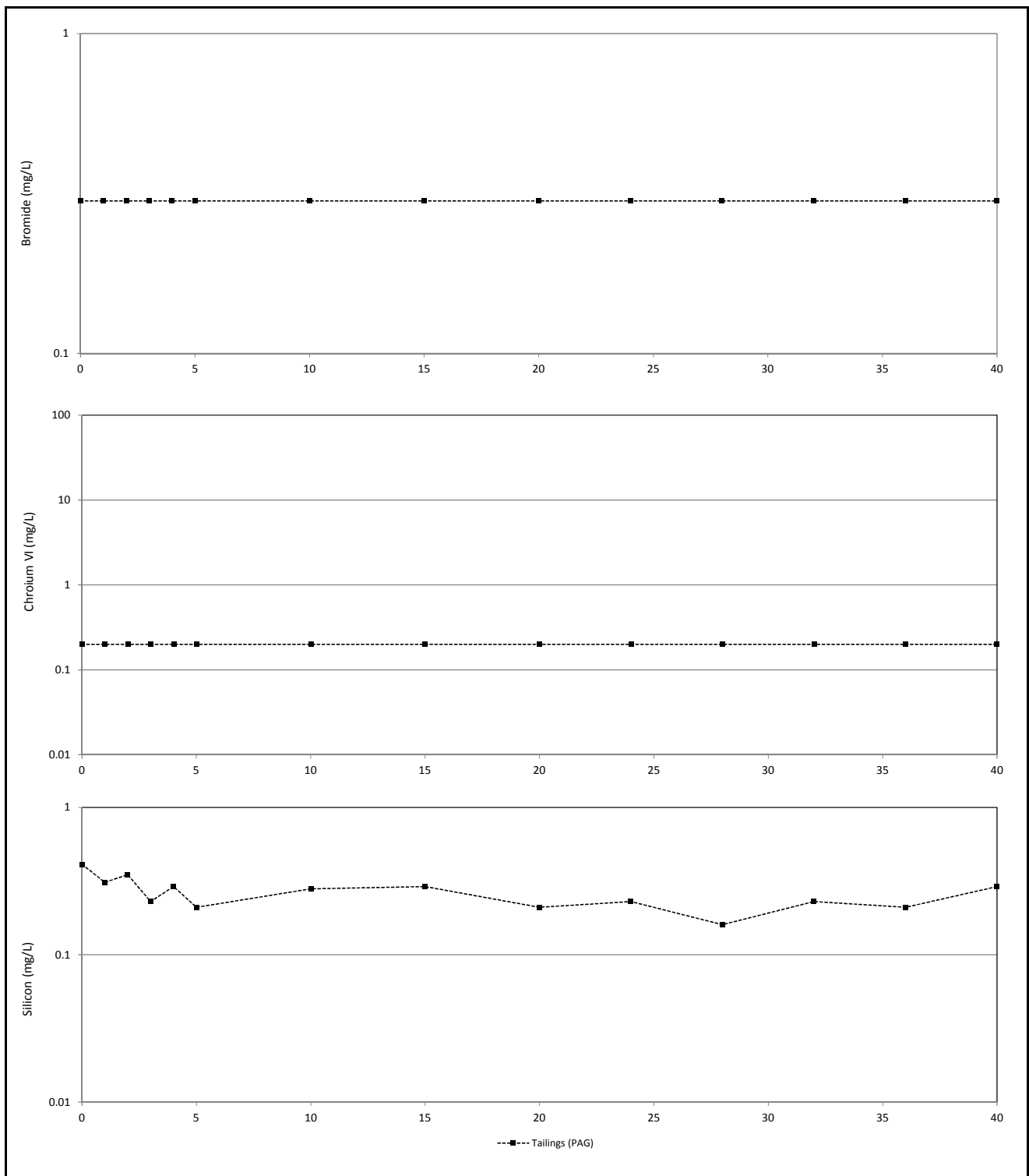




Notes: 1 kg HCT —— 40-60 kg Column Tests Portage NWB Effluent Limit (NWB, 2015) (N Vault NWB Effluent Limit (NWB, 2015) (NW Values < MDL are plotted as MDL value	Rock Type: Ultramafic (0a) Transitional Ultramafic (0b) Central Greywacke (S3c) South Greywacke (S3s) Chert (S10e)		Iron Formation (S9e) Intermediate Intrusive (8b) Mafic Volcanic (1b) Ore Tailings		Total Cyanide WAD Cyanide Cyanate		Kinetic Tests for Tailings Whale Tail Pit			
					DRAWN	JMC	DATE	May-16	Agnico Eagle Mines Limited Meadowbank Division	
					CHECKED	KS	JOB NO	1520817		
					REVIEWED	VJB	PHASE	4000		
								APPENDIX FIGURE		F-1.14



Notes: 1 kg HCT — 40-60 kg Column Tests Portage NWB Effluent Limit (NWB, 2015) (NW) Vault NWB Effluent Limit (NWB, 2015) (NW) Values < MDL are plotted as MDL value	Rock Type: Ultramafic (0a) Transitional Ultramafic (0b) Central Greywacke (S3c) South Greywacke (S3s) Chert (S10e)		Total Cyanide WAD Cyanide Zinc		Kinetic Tests for Tailings Whale Tail Pit	
	Iron Formation (S9e) Intermediate Intrusive (8b) Mafic Volcanic (1b) Ore Tailings		DRAWN JMC CHECKED KS REVIEWED VJB	DATE May-16 JOB NO 1520817 PHASE 4000	Agnico Eagle Mines Limited Meadowbank Division	
					APPENDIX FIGURE	
					F-1.15	



Notes: 1 kg HCT ----- 40-60 kg Column Tests Portage NWB Effluent Limit (NWB, 2015) (NWB) Vault NWB Effluent Limit (NWB, 2015) (NWB) Values < MDL are plotted as MDL value	Rock Type: Ultramafic (0a) Transitional Ultramafic (0b) Central Greywacke (S3c) South Greywacke (S3s) Chert (S10e)	Iron Formation (S9e) Intermediate Intrusive (8b) Mafic Volcanic (1b) Ore Tailings	Bromide		Kinetic Tests for Tailings	
			Chromium VI		Whale Tail Pit	
			Silicon			
			DRAWN	JMC	DATE	May-16
			CHECKED	KS	JOB NO	1520817
			REVIEWED	VJB	PHASE	4000
			Agnico Eagle Mines Limited		Meadowbank Division	
			APPENDIX FIGURE		F-1.16	



F.2 – Submerged Column

Appendix F-2
Submerged Column Results
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria ¹	Vault Effluent Criteria ²	Submerged Column - UM - Port 1									
					Day 1	Day 3	Day 6	Day 10	Day 15	Day 20	Day 27	Day 35	Day 49	Day 70
PHYSICAL TESTS														
Leachate Volume Collected		mL			717	788	777	770	725	726	788	728	707	707
pH		-	6.0 - 9.0	6.0 - 9.0	8.1	8.5	8.0	8.0	8.0	7.9	8.0	7.9	8.2	8.2
Conductivity		µS/cm			177	157	159	150	135	142	146	143	156	156
ANIONS & NUTRIUENTS														
Acidity		as CaCO3			< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity		as CaCO4			36	37	39	37	39	41	43	43	46	46
Chloride		Cl	1000	500	11	9.0	7.0	5.0	4.0	3.0	3.0	3.0	2.0	2.0
Fluoride		Fe			0.11	0.12	0.13	0.13	0.15	0.12	0.12	0.11	0.11	0.11
Phosphorus		P	1	1.5	0.027	0.012	0.01	0.009	0.007	0.009	0.006	0.004	0.007	0.007
Sulphate		SO4			22	20	23	21	20	15	18	17	16	16
DISSOLVED METALS														
Aluminum		Al	1	1	0.025	0.032	0.029	0.032	0.035	0.036	0.036	0.033	0.038	0.038
Antimony		Sb			0.045	0.054	0.051	0.052	0.038	0.02	0.012	0.0081	0.0078	0.0078
Arsenic		As	0.3	0.1	1.7	2.4	2.1	2.2	2.1	1.8	1.7	1.7	1.5	1.5
Barium		Ba			0.0024	0.007	0.01	0.013	0.014	0.015	0.016	0.018	0.018	0.018
Beryllium		Be			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth		Bi			0.000016	< 0.000007	< 0.000007	< 0.000007	0.000008	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Boron		B			0.047	0.047	0.054	0.054	0.052	0.046	0.046	0.039	0.048	0.048
Cadmium		Cd	0.002	0.002	0.000006	0.00001	< 0.000003	< 0.000003	0.000004	0.000004	0.000003	< 0.000003	0.000007	0.000007
Calcium		Ca			6.5	8.1	8.3	8.9	8.4	8.3	9.0	9.7	10	10
Chromium		Cr			0.0011	0.00048	0.00012	< 0.00003	0.00005	0.00007	0.00005	0.00006	0.00006	0.00006
Cobalt		Co			0.00023	0.00031	0.00042	0.00047	0.00039	0.00042	0.00041	0.00042	0.00041	0.00041
Copper		Cu	0.1	0.1	0.0013	0.00021	0.00034	0.00046	0.00027	< 0.00002	0.00042	0.00029	0.00009	0.00009
Iron		Fe			< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Lead		Pb	0.1	0.1	0.00011	0.00013	0.00012	0.0001	0.00004	0.00005	0.00003	0.00004	0.00002	0.00002
Lithium		Li			0.16	0.019	0.011	0.0099	0.009	0.0075	0.0072	0.0056	0.0066	0.0066
Magnesium		Mg			3.9	3.7	3.6	3.6	3.6	3.3	3.3	3.4	3.8	3.8
Manganese		Mn			0.00068	0.0018	0.0019	0.0024	0.0036	0.0044	0.0054	0.0063	0.0076	0.0076
Mercury		Hg	0.0004	0.0004	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum		Mo			0.0097	0.0033	0.0027	0.0027	0.0043	0.0025	0.0029	0.0032	0.0031	0.0031
Nickel		Ni	0.2	0.2	0.011	0.0071	0.0059	0.005	0.0038	0.0036	0.0036	0.0037	0.0035	0.0035
Potassium		K			20	22	20	18	18	16	16	16	17	17
Selenium		Se			0.00085	0.0016	0.00067	0.0009	0.00066	0.00045	0.00038	0.00028	0.00022	0.00022
Silicon		Si			3.2	4.2	4.2	4.4	4.0	3.8	3.9	3.2	3.5	3.5
Silver		Au			0.000011	0.000009	0.000002	0.000004	0.000003	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002
Sodium		Na			5.8	4.7	4.3	3.8	3.5	3.1	3.0	2.8	3.1	3.1
Thallium		Th			< 0.000005	< 0.000005	0.000011	0.00001	0.000008	0.000009	< 0.000005	< 0.000005	< 0.000005	< 0.000005
Tin		Sn			0.00028	0.00005	0.00002	0.00007	0.00004	0.00001	0.00006	< 0.00001	0.00005	< 0.00005
Titanium		Ti			0.00018	0.00016	0.00025	< 0.00005	0.00008	0.00005	0.00008	0.00006	0.00005	0.00005
Uranium		U			0.00031	0.00055	0.00064	0.00076	0.00094	0.00068	0.00067	0.00081	0.00071	0.00071
Vanadium		V			0.16	0.033	0.022	0.02	0.014	0.011	0.0092	0.0086	0.0085	0.0085
Zinc		Zn	0.4	0.2	0.004	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Notes:

1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

1.0	Exceeds the Portage Effluent Guideline.
1.0	Result exceeds the Vault Effluent Guideline.
1.0	Exceeds Portage and Vault Effluent Guidelines.

Appendix F-2
Submerged Column Results
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

Parameter			Portage Effluent Criteria ¹	Vault Effluent Criteria ²	Submerged Column - UM - Port 2									
					Day 1	Day 3	Day 6	Day 10	Day 15	Day 20	Day 27	Day 35	Day 49	Day 70
PHYSICAL TESTS														
Leachate Volume Collected		mL			764	769	775	766	790	779	751	754	777	777
pH		-	6.0 - 9.0	6.0 - 9.0	7.0	7.2	7.3	7.2	7.3	7.5	7.5	7.5	7.6	7.6
Conductivity		µS/cm			13	17	25	23	28	35	40	63	111	111
ANIONS & NUTRIUENTS														
Acidity		as CaCO3	mg/L		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity		as CaCO4	mg/L		4.0	12	8.0	7.0	11	15	14	16	22	22
Chloride		Cl	mg/L	1000	500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Fluoride		Fe	mg/L		< 0.06	< 0.06	< 0.06	< 0.06	0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Phosphorus		P	mg/L	1	1.5	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Sulphate		SO4	mg/L		1.0	1.0	2.0	2.0	3.0	3.0	3.0	3.0	4.0	4
DISSOLVED METALS														
Aluminum		Al	mg/L	1	1	0.007	0.013	0.013	0.014	0.015	0.016	0.018	0.018	0.017
Antimony		Sb	mg/L			0.0007	0.0018	0.0016	0.0036	0.0041	0.0032	0.0056	0.0051	0.0059
Arsenic		As	mg/L	0.3	0.1	0.023	0.07	0.16	0.19	0.28	0.36	0.43	0.58	0.63
Barium		Ba	mg/L			0.0021	0.0032	0.0041	0.0048	0.006	0.0073	0.0085	0.011	0.012
Beryllium		Be	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth		Bi	mg/L			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Boron		B	mg/L			0.0031	0.0068	0.0066	0.0084	0.011	0.0059	0.005	0.0003	0.0063
Cadmium		Cd	mg/L	0.002	0.002	< 0.000003	0.000003	< 0.000003	0.000004	< 0.000003	0.000004	< 0.000003	< 0.000003	< 0.000003
Calcium		Ca	mg/L			1.1	1.6	1.9	2.2	2.7	3.1	3.7	4.4	5
Chromium		Cr	mg/L			< 0.00003	0.00003	< 0.00003	< 0.00003	0.00005	0.00008	0.00008	0.00008	0.00009
Cobalt		Co	mg/L			< 0.000004	0.000033	0.000035	0.000059	0.000062	0.000093	0.00013	0.00016	0.0002
Copper		Cu	mg/L	0.1	0.1	< 0.00002	< 0.00002	0.00012	0.00028	0.00007	< 0.00002	0.00023	0.00011	0.00008
Iron		Fe	mg/L			< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Lead		Pb	mg/L	0.1	0.1	< 0.00001	0.00005	0.00003	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00004
Lithium		Li	mg/L			0.00026	0.00021	0.00023	0.00028	0.00039	0.00043	0.00048	0.00061	0.0007
Magnesium		Mg	mg/L			0.16	0.26	0.36	0.41	0.53	0.58	0.64	0.81	0.95
Manganese		Mn	mg/L			0.0049	0.0062	0.0055	0.011	0.0076	0.0086	0.0092	0.01	0.013
Mercury		Hg	mg/L	0.0004	0.0004	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum		Mo	mg/L			0.00056	0.00041	0.00017	0.00044	0.0011	0.00022	0.00024	0.00033	0.00039
Nickel		Ni	mg/L	0.2	0.2	0.0004	0.0005	0.0006	0.0008	0.0009	0.0011	0.0013	0.0019	0.0023
Potassium		K	mg/L			0.92	1.6	2.3	2.3	2.9	3.2	3.8	4.3	5
Selenium		Se	mg/L			0.00006	0.00082	0.00014	0.00047	0.00013	0.00011	0.00006	0.00007	0.00006
Silicon		Si	mg/L			0.09	0.17	0.33	0.33	0.42	0.5	0.62	0.52	0.47
Silver		Au	mg/L			< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002
Sodium		Na	mg/L			0.15	0.25	0.33	0.31	0.33	0.32	0.37	0.44	0.47
Thallium		Th	mg/L			< 0.000005	< 0.000005	< 0.000005	0.000007	0.000008	0.000014	0.00001	0.000014	0.00001
Tin		Sn	mg/L			< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00004	0.00005	0.00006	< 0.00001	0.00004
Titanium		Ti	mg/L			< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Uranium		U	mg/L			0.000005	0.00001	0.000012	0.000033	0.000098	0.000026	0.000032	0.000048	0.000071
Vanadium		V	mg/L			0.00037	0.00064	0.0012	0.0013	0.0016	0.002	0.0022	0.0027	0.003
Zinc		Zn	mg/L	0.4	0.2	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Notes:

1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

1.0	Exceeds the Portage Effluent Guideline.
<u>1.0</u>	Result exceeds the Vault Effluent Guideline.
1.0	Exceeds Portage and Vault Effluent Guidelines.

Appendix F-2
Submerged Column Results
Whale Tail Deposit
Agnico Eagle Mines Limited - Meadowbank Division

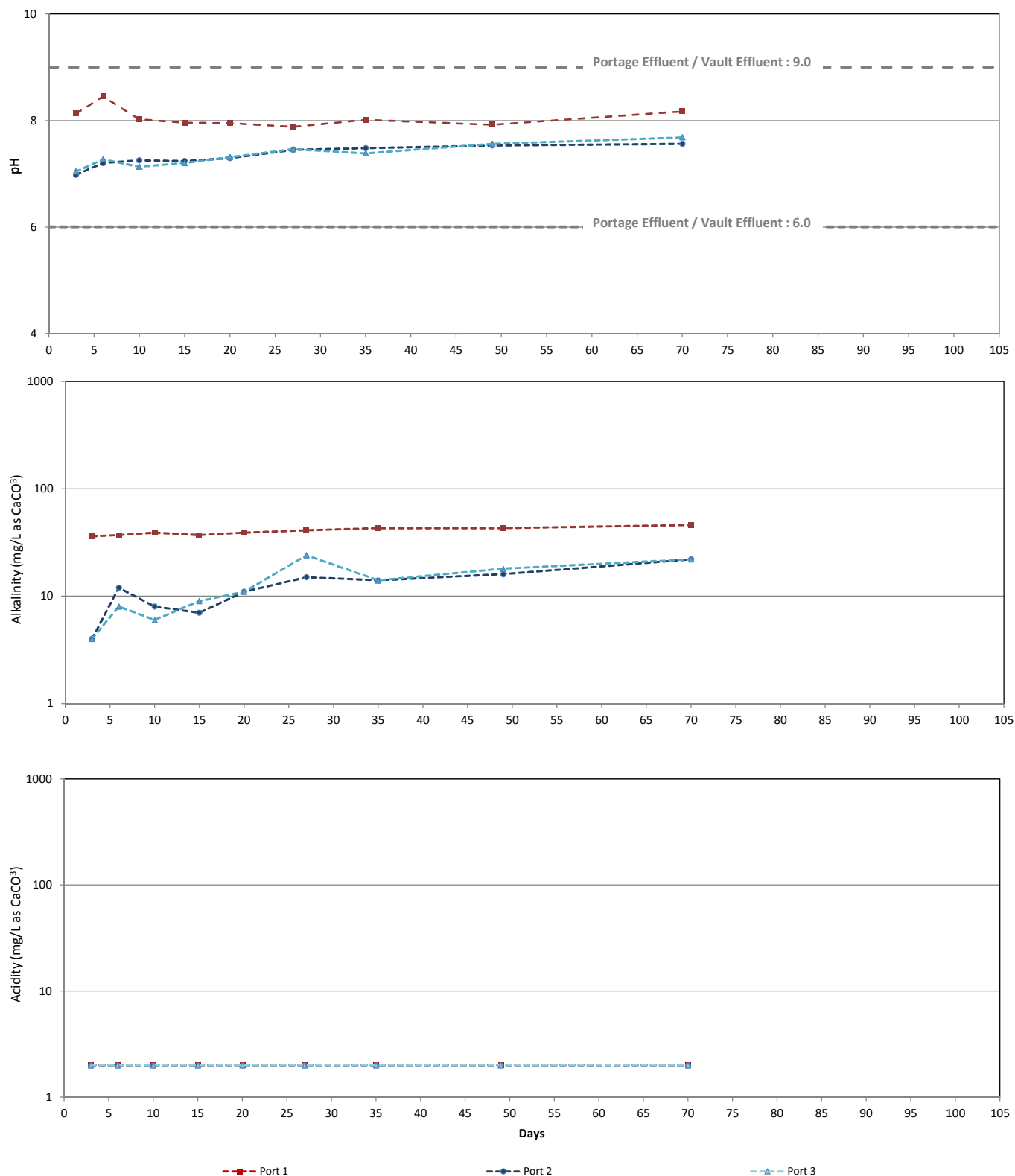
Parameter			Portage Effluent Criteria ¹	Vault Effluent Criteria ²	Submerged Column - UM - Port 3									
					Day 1	Day 3	Day 6	Day 10	Day 15	Day 20	Day 27	Day 35	Day 49	Day 70
PHYSICAL TESTS														
Leachate Volume Collected		mL			785	712	724	779	749	782	730	765	784	784
pH		-	6.0 - 9.0	6.0 - 9.0	7.0	7.3	7.1	7.2	7.3	7.5	7.4	7.6	7.7	7.7
Conductivity		µS/cm			13	17	18	24	29	35	40	45	56	56
ANIONS & NUTRIUENTS														
Acidity		as CaCO3			< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	<2
Alkalinity		as CaCO4			4.0	8.0	6.0	9.0	11	24	14	18	22	22
Chloride		Cl	1000	500	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1
Fluoride		Fe			< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	<0.06
Phosphorus		P	1	1.5	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	<0.003
Sulphate		SO4			1.0	1.0	2.0	2.0	3.0	3.0	3.0	3.0	4.0	4
DISSOLVED METALS														
Aluminum		Al	1	1	0.007	0.012	0.01	0.014	0.016	0.016	0.017	0.02	0.017	0.017
Antimony		Sb			0.0005	0.0016	0.0002	0.0035	0.0038	0.0031	0.0057	0.0052	0.006	0.006
Arsenic		As	0.3	0.1	0.019	0.065	0.082	0.18	0.28	0.36	0.44	0.59	0.64	0.6
Barium		Ba			0.0021	0.0032	0.0031	0.0048	0.0061	0.0071	0.0085	0.011	0.012	0.012
Beryllium		Be			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	<0.000007
Bismuth		Bi			< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	<0.000007
Boron		B			0.0008	0.0032	0.0025	0.005	0.0074	0.0044	0.0048	< 0.0002	0.0049	0.005
Cadmium		Cd	0.002	0.002	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	<0.000003
Calcium		Ca			1.1	1.5	1.5	2.2	2.7	3.1	3.7	4.4	5.2	5
Chromium		Cr			< 0.00003	< 0.00003	< 0.00003	< 0.00003	0.00005	0.00008	0.00009	0.00009	0.0001	0.00010
Cobalt		Co			< 0.000004	0.000085	0.000036	0.000068	0.000064	0.00008	0.00012	0.00015	0.00019	0.00019
Copper		Cu	0.1	0.1	< 0.00002	< 0.00002	0.00014	0.00037	0.00024	< 0.00002	0.0004	0.00012	0.00008	0.00008
Iron		Fe			< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	<0.007
Lead		Pb	0.1	0.1	< 0.00001	0.00004	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	<0.00001
Lithium		Li			0.00014	0.00019	0.00016	0.00028	0.00037	0.0004	0.00051	0.00057	0.00068	0.0007
Magnesium		Mg			0.16	0.26	0.27	0.41	0.53	0.57	0.64	0.82	0.96	1.0
Manganese		Mn			0.0052	0.0067	0.0056	0.0071	0.0079	0.0088	0.0092	0.01	0.012	0.012
Mercury		Hg	0.0004	0.0004	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	<0.00001
Molybdenum		Mo			< 0.00001	0.0002	< 0.00001	0.00028	0.00054	0.00019	0.00021	0.0003	0.00036	0.0004
Nickel		Ni	0.2	0.2	0.0004	0.0006	0.0006	0.0008	0.0009	0.0011	0.0013	0.0019	0.0023	0.0023
Potassium		K			0.93	1.6	1.7	2.3	3.0	3.1	3.6	4.4	5.3	5
Selenium		Se			< 0.00004	0.00035	0.00006	0.00036	0.00007	0.00009	0.00005	0.00008	0.00006	0.00006
Silicon		Si			0.08	0.17	0.19	0.33	0.42	0.5	0.58	0.52	0.45	0.5
Silver		Au			< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	<0.000002
Sodium		Na			0.15	0.24	0.27	0.3	0.33	0.32	0.37	0.45	0.48	0.5
Thallium		Th			< 0.000005	< 0.000005	< 0.000005	0.000008	0.000007	0.000014	0.000011	0.000015	0.000011	0.000011
Tin		Sn			< 0.00001	< 0.00001	< 0.00001	0.00003	0.00006	0.00002	0.0001	< 0.00001	0.00005	0.00005
Titanium		Ti			0.00009	0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	<0.00005
Uranium		U			0.000003	0.000003	0.000003	0.000015	0.000034	0.000022	0.000028	0.000045	0.000059	0.00006
Vanadium		V			0.00034	0.0006	0.00073	0.0013	0.0016	0.002	0.0021	0.0027	0.0031	0.0031
Zinc		Zn	0.4	0.2	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	<0.002

Notes:

1) Discharge of Effluent from the Portage Attenuation Pond at Monitoring Station ST-9. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

2) Discharge of Effluent from the Vault Attenuation Pond at Monitoring Station ST-10. Nunavut Water Board Water License No. 2AM-MEA1525, July 2015.

1.0	Exceeds the Portage Effluent Guideline.
1.0	Result exceeds the Vault Effluent Guideline.
1.0	Exceeds Portage and Vault Effluent Guidelines.



Notes:

Portage NWB Effluent Limit (NWB, 2015)
Vault NWB Effluent Limit (NWB, 2015)
Values < MDL are plotted as MDL value

Rock Type:

Port 1: 5 cm below Rock/Water Interface
Port 2: Rock/Water Interface
Port 3: 30 cm above Rock Water Interface

**pH
Alkalinity
Acidity**

DRAWN	CT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

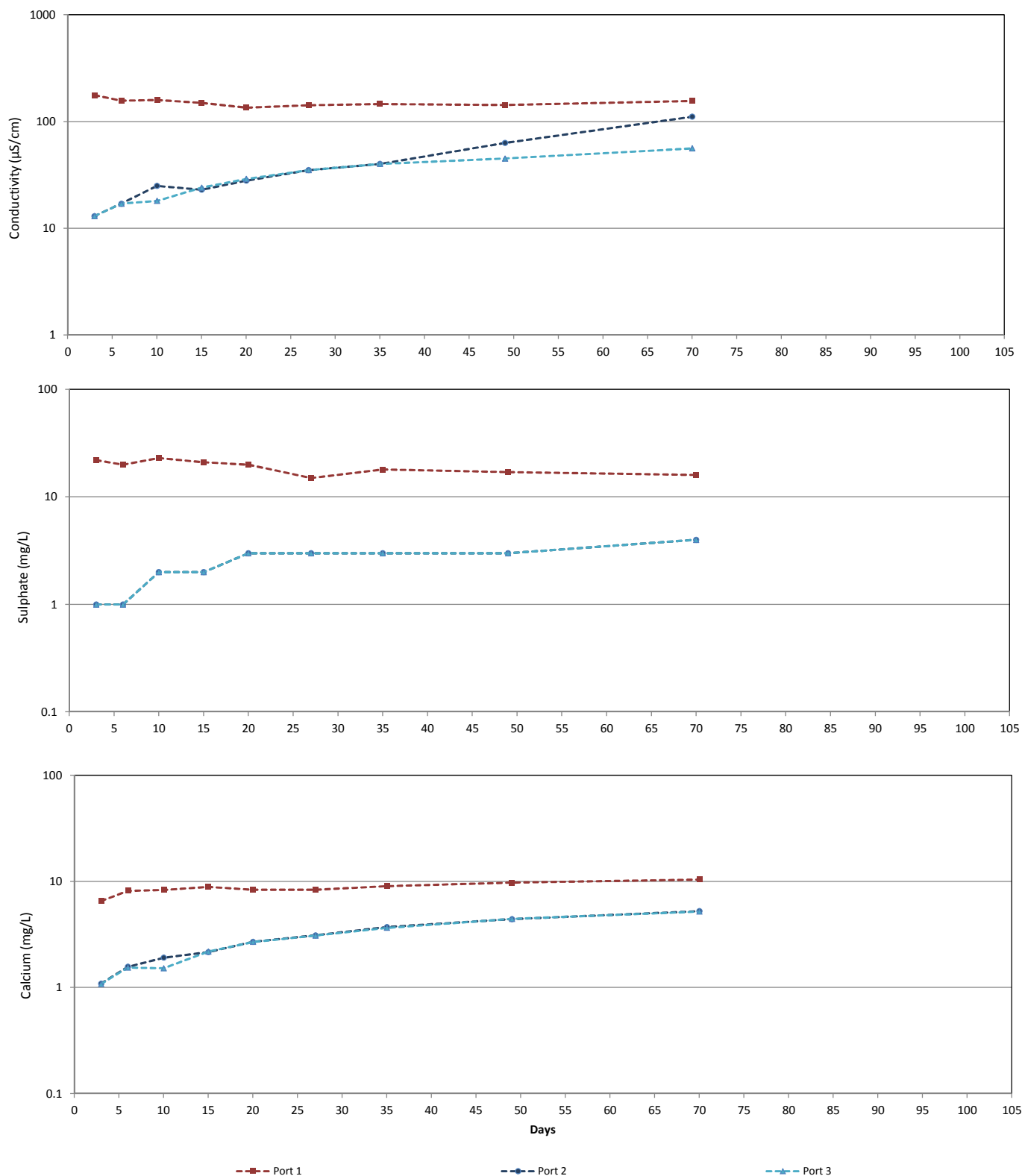
Submerged Column - Ultramafic and Iron Formation Waste Rock (Oa, Ob, S9e)

Agnico Eagle Mines Limited
Meadowbank Division

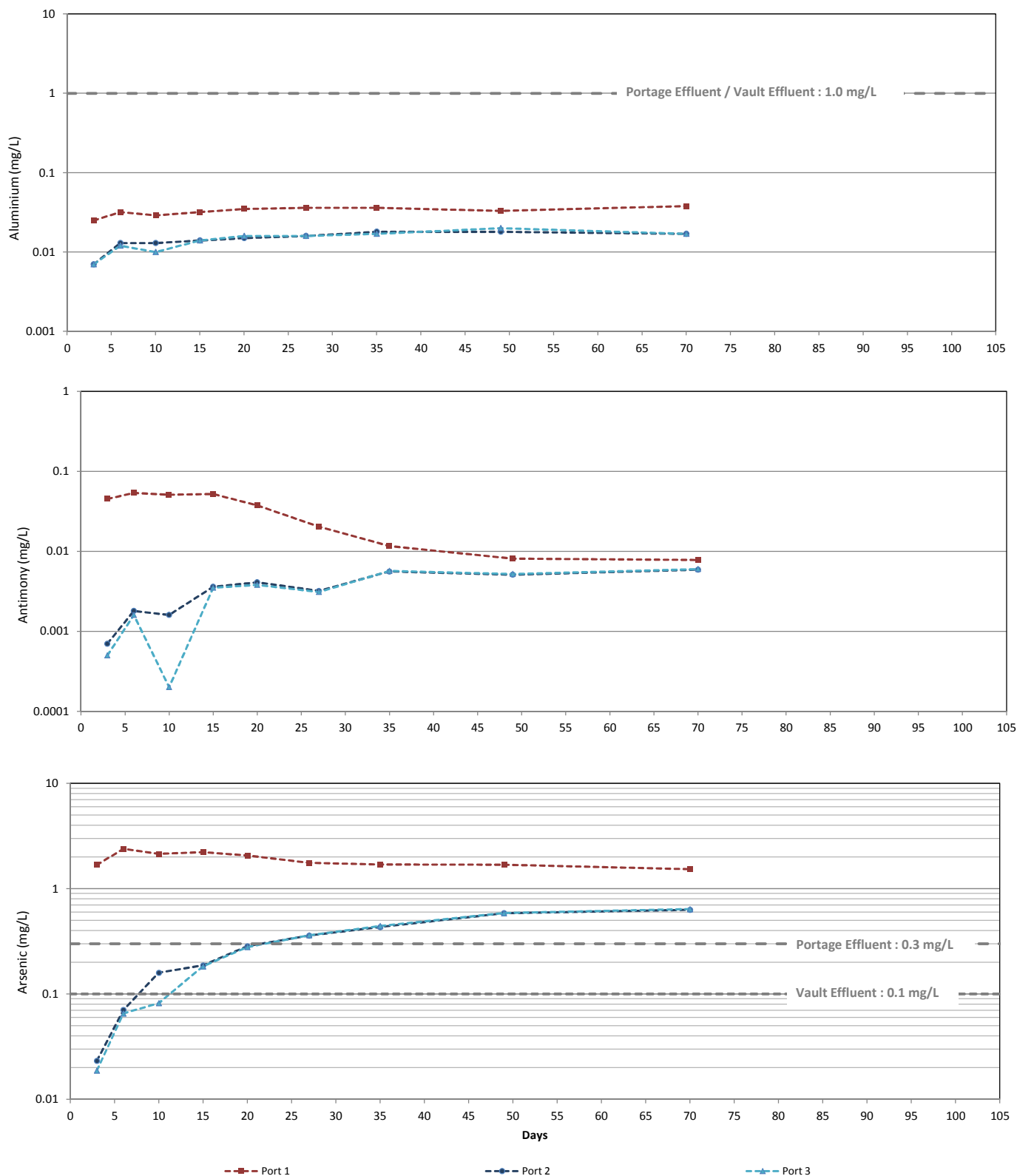


APPENDIX FIGURE

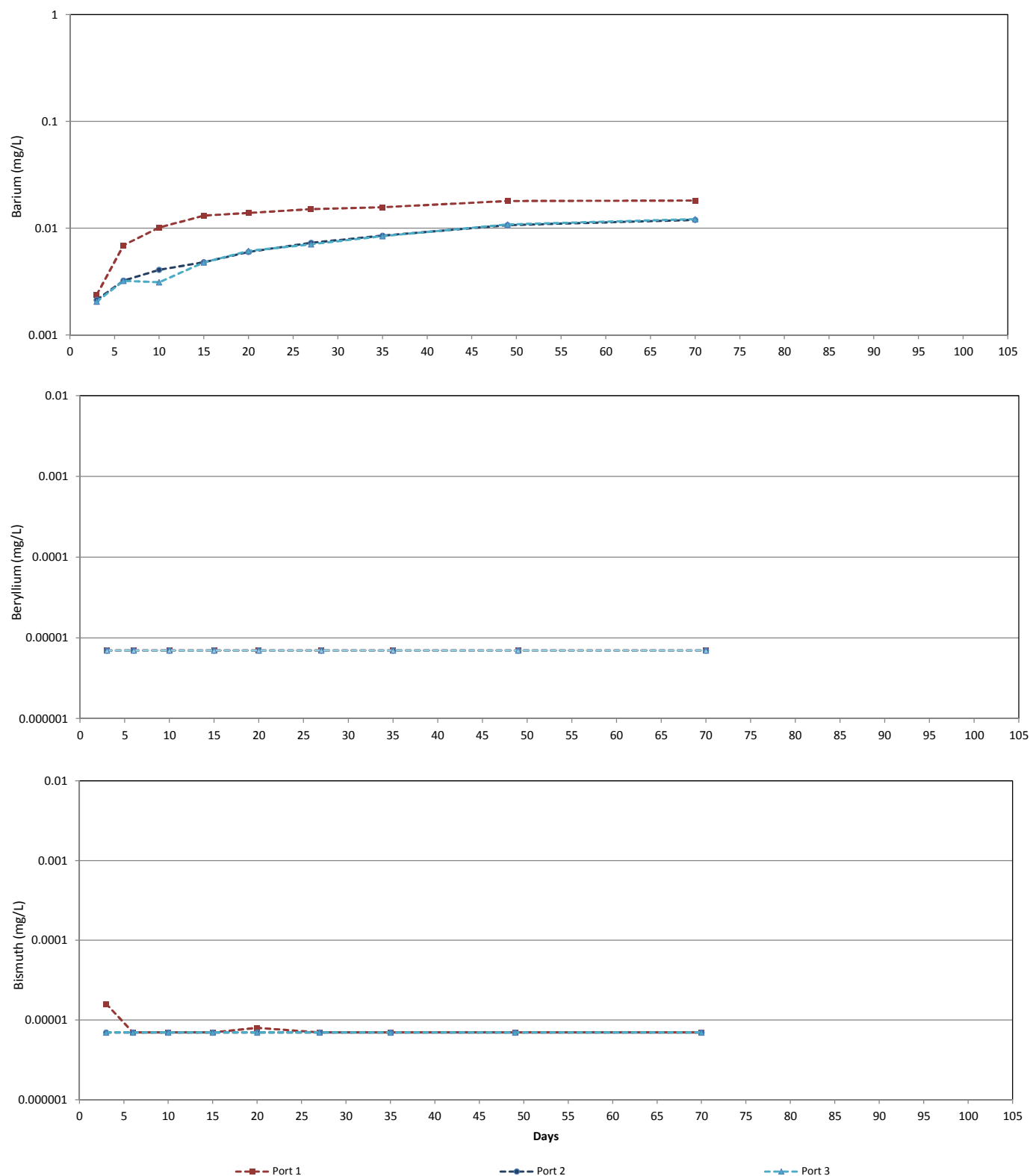
F-2.1



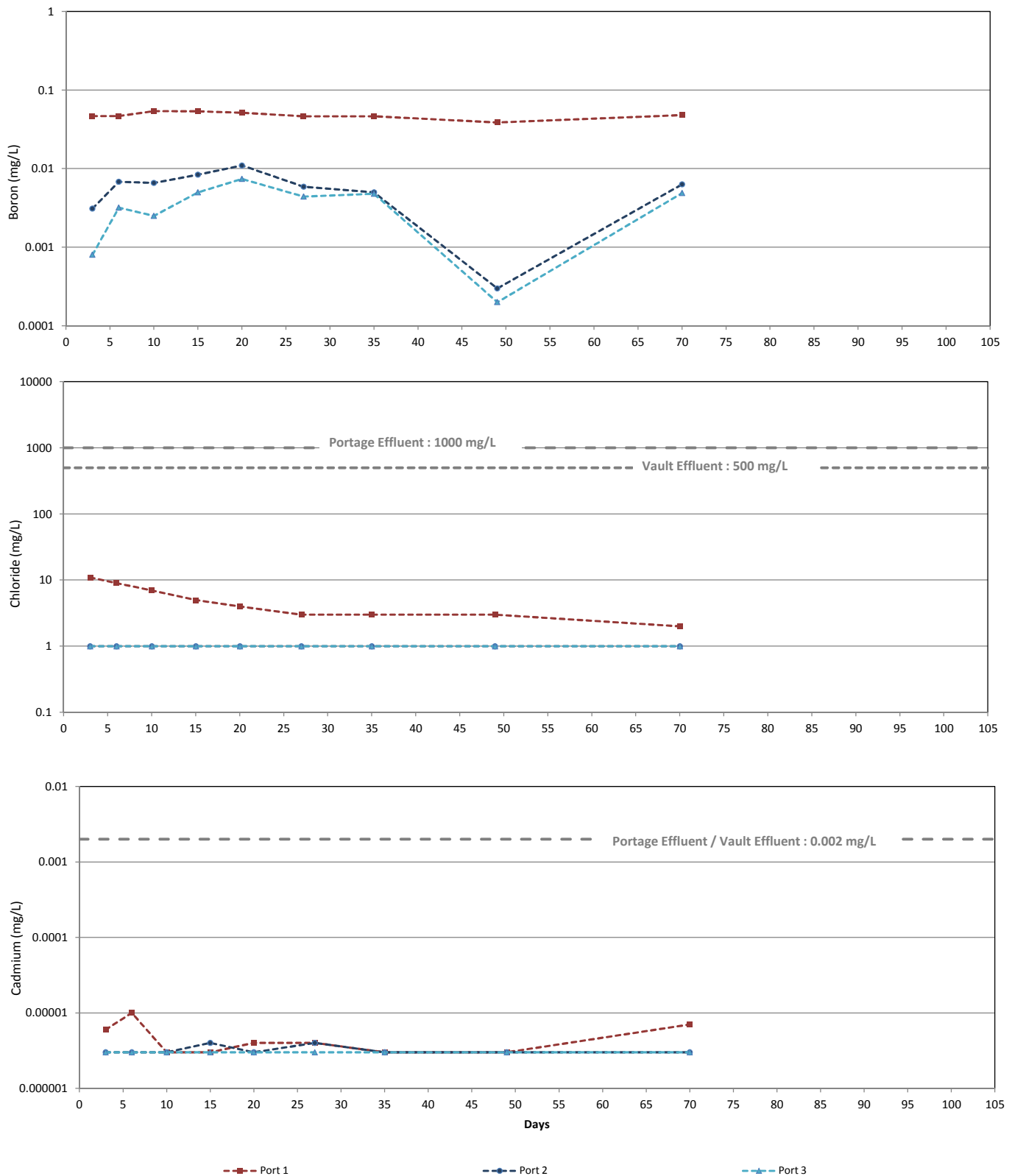
Notes: Portage NWB Effluent Limit (NWB, 2015) (NWB, 2015) Vault NWB Effluent Limit (NWB, 2015) (NWB, 2015) Values < MDL are plotted as MDL value	Rock Type: Port 1: 5 cm below Rock/Water Interface	Conductivity Sulphate Calcium				Submerged Column - Ultramafic and Iron Formation Waste Rock (Oa, Ob, S9e)	
	Port 2: Rock/Water Interface	DRAWN CT	DATE May-16	Agnico Eagle Mines Limited		Golder Associates	
	Port 3: 30 cm above Rock Water Interface	CHECKED JMC	JOB NO 1520817	Meadowbank Division			
		REVIEWED VJB	PHASE/TASK 3000	APPENDIX FIGURE		F-2.2	



Notes: Portage NWB Effluent Limit (NWB, 2015) (NWB, 2015) Vault NWB Effluent Limit (NWB, 2015) (NWB, 2015) Values < MDL are plotted as MDL value	Rock Type:	Aluminum Antimony Arsenic		Submerged Column - Ultramafic and Iron Formation Waste Rock (Oa, Ob, S9e)			
	Port 1: 5 cm below Rock/Water Interface						
	Port 2: Rock/Water Interface	DRAWN	CT	DATE	May-16	Agnico Eagle Mines Limited Meadowbank Division	 Golder Associates
	Port 3: 30 cm above Rock Water Interface	CHECKED	JMC	JOB NO	1520817		
	REVIEWED	VJB	PHASE/TASK	3000	APPENDIX FIGURE F-2.3		



<u>Notes:</u>	<u>Rock Type:</u>	Barium Beryllium Bismuth			Submerged Column - Ultramafic and Iron Formation Waste Rock (Oa, Ob, S9e)		
Portage NWB Effluent Limit (NWB, 2015) (NWB, 2015)	Port 1: 5 cm below Rock/Water Interface	DRAWN	CT	DATE	May-16	Agnico Eagle Mines Limited Meadowbank Division	 Golder Associates
Vault NWB Effluent Limit (NWB, 2015) (NWB, 2015)	Port 2: Rock/Water Interface	CHECKED	JMC	JOB NO	1520817		
Values < MDL are plotted as MDL value	Port 3: 30 cm above Rock Water Interface	REVIEWED	VJB	PHASE/TASK	3000		
		APPENDIX FIGURE				F-2.4	



Notes:

Portage NWB Effluent Limit (NWB, 2015)
(NWB, 2015)
Vault NWB Effluent Limit (NWB, 2015)
(NWB, 2015)
Values < MDL are plotted as MDL value

Rock Type:

Port 1: 5 cm below Rock/Water Interface
Port 2: Rock/Water Interface
Port 3: 30 cm above Rock Water Interface

**Boron
Chloride
Cadmium**

DRAWN	CT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

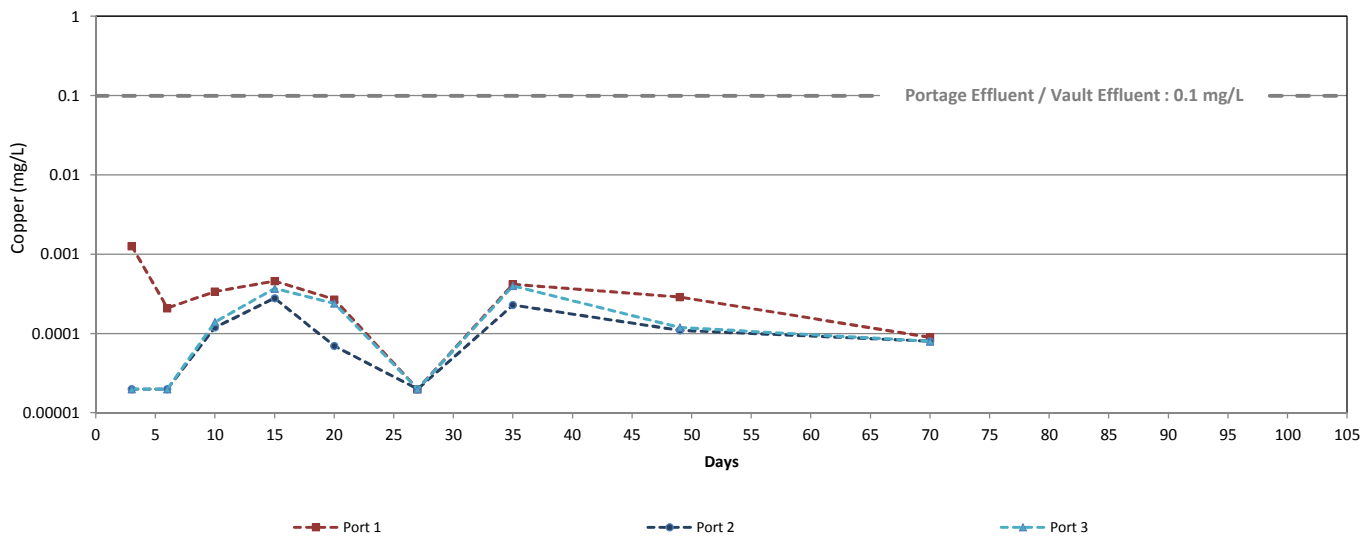
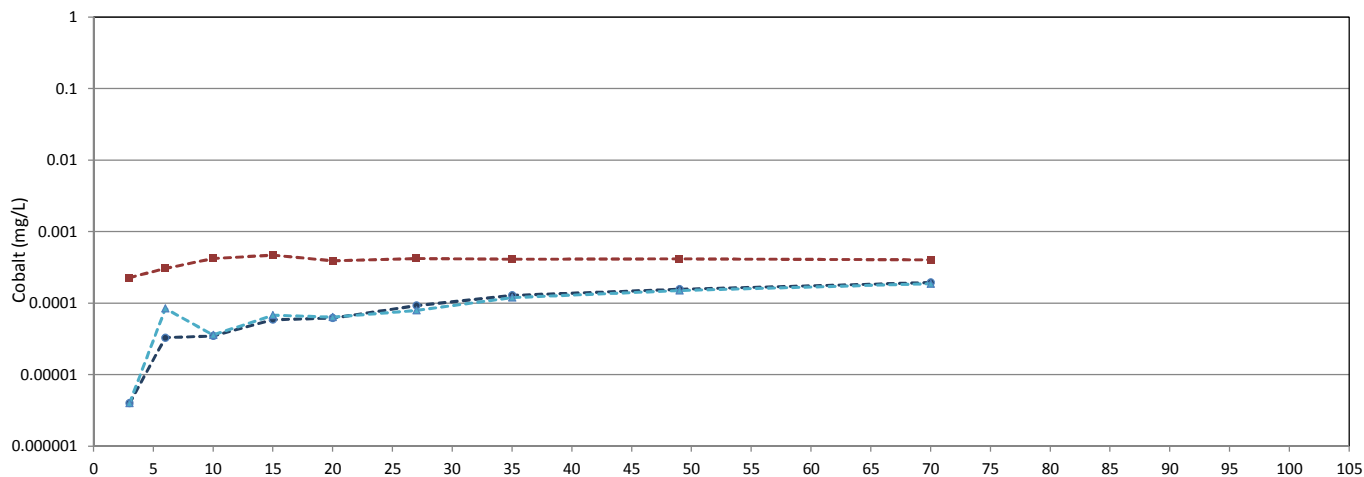
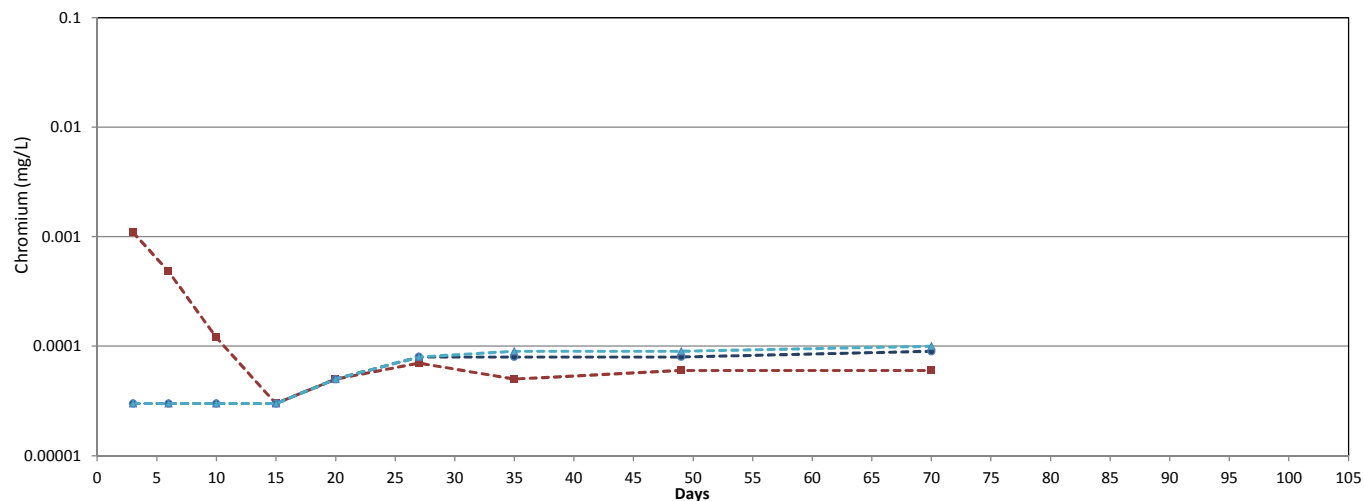
**Submerged Column - Ultramafic and Iron
Formation Waste Rock (Oa, Ob, S9e)**

**Agnico Eagle Mines Limited
Meadowbank Division**



APPENDIX FIGURE

F-2.5



Notes:

Portage NWB Effluent Limit (NWB, 2015)
 (NWB, 2015)
 Vault NWB Effluent Limit (NWB, 2015)
 (NWB, 2015)
 Values < MDL are plotted as MDL value

Rock Type:

Port 1: 5 cm below Rock/Water Interface
 Port 2: Rock/Water Interface
 Port 3: 30 cm above Rock Water Interface

Chromium Cobalt Copper

DRAWN	CT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

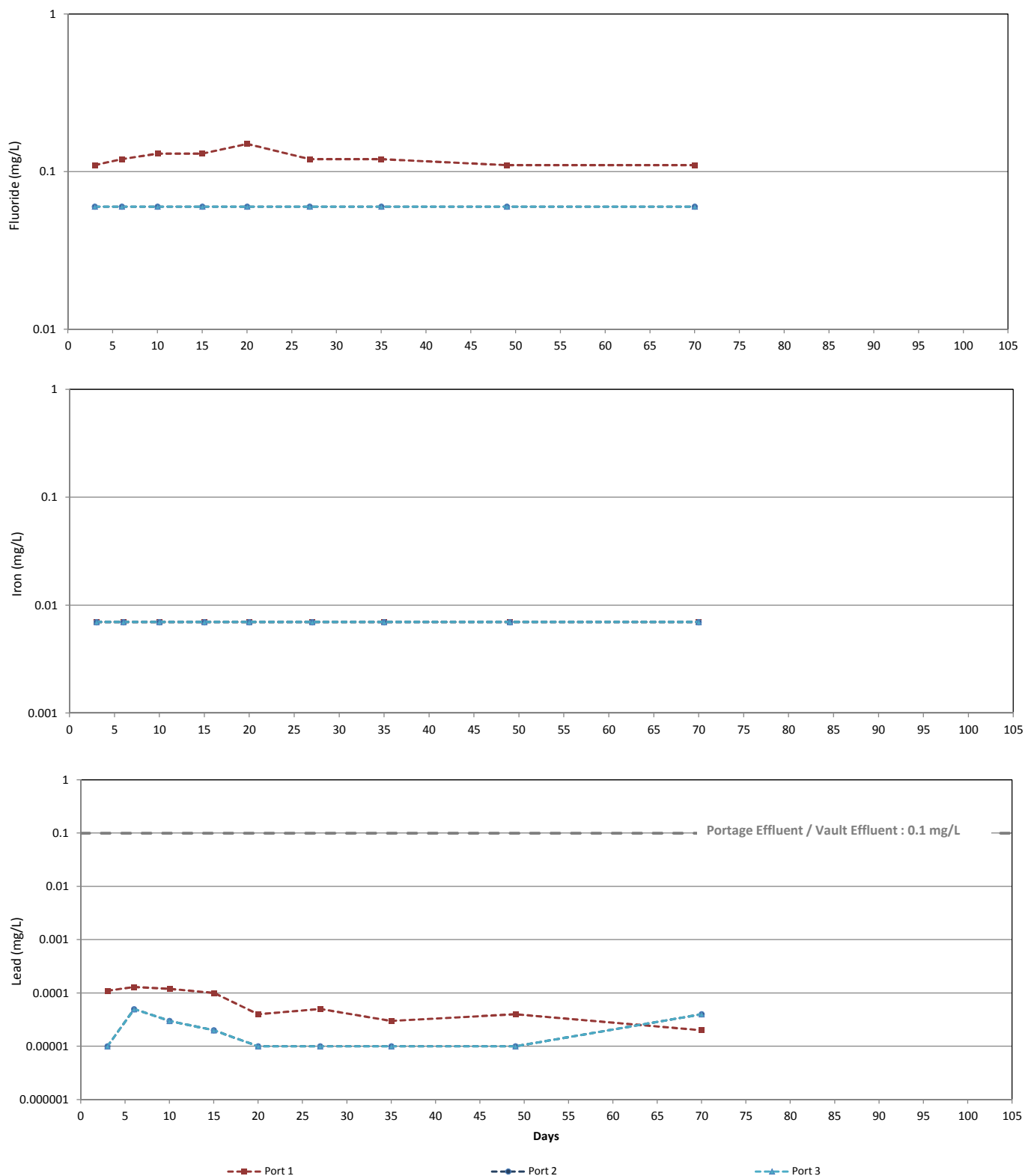
Submerged Column - Ultramafic and Iron
 Formation Waste Rock (Oa, Ob, S9e)

Agnico Eagle Mines Limited
 Meadowbank Division



APPENDIX FIGURE

F-2.6



Notes:

Portage NWB Effluent Limit (NWB, 2015)
 Vault NWB Effluent Limit (NWB, 2015)
 Values < MDL are plotted as MDL value

Rock Type:

Port 1: 5 cm below Rock/Water Interface
 Port 2: Rock/Water Interface
 Port 3: 30 cm above Rock Water Interface

**Fluoride
Iron
Lead**

DRAWN	CT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

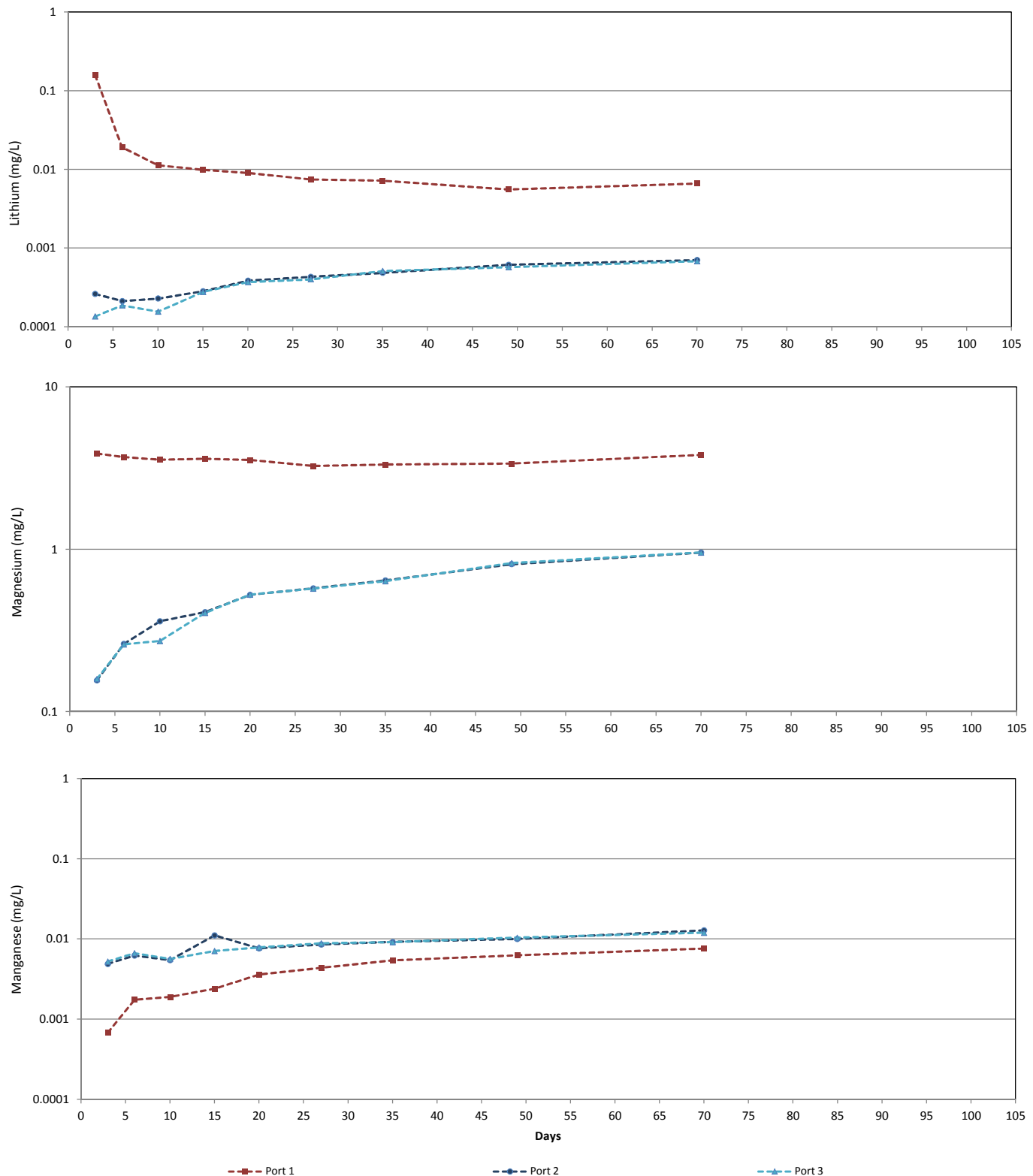
**Submerged Column - Ultramafic and Iron
Formation Waste Rock (Oa, Ob, S9e)**

**Agnico Eagle Mines Limited
Meadowbank Division**



APPENDIX FIGURE

F-2.7



Notes:

Portage NWB Effluent Limit (NWB, 2015)
(NWB, 2015)
Vault NWB Effluent Limit (NWB, 2015)
(NWB, 2015)
Values < MDL are plotted as MDL value

Rock Type:

Port 1: 5 cm below Rock/Water Interface
Port 2: Rock/Water Interface
Port 3: 30 cm above Rock Water Interface

**Lithium
Magnesium
Manganese**

DRAWN	CT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

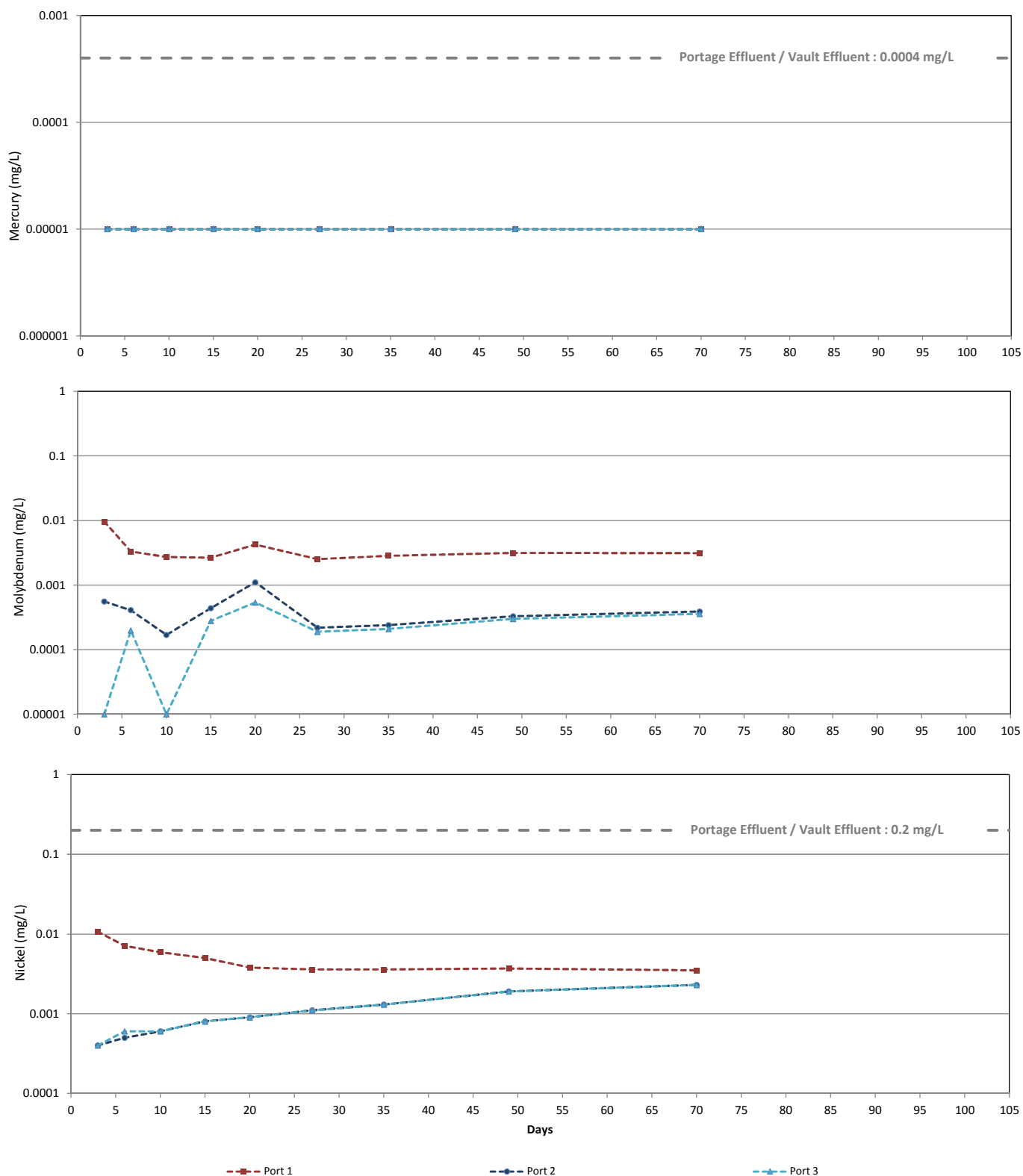
**Submerged Column - Ultramafic and Iron
Formation Waste Rock (Oa, Ob, S9e)**

**Agnico Eagle Mines Limited
Meadowbank Division**

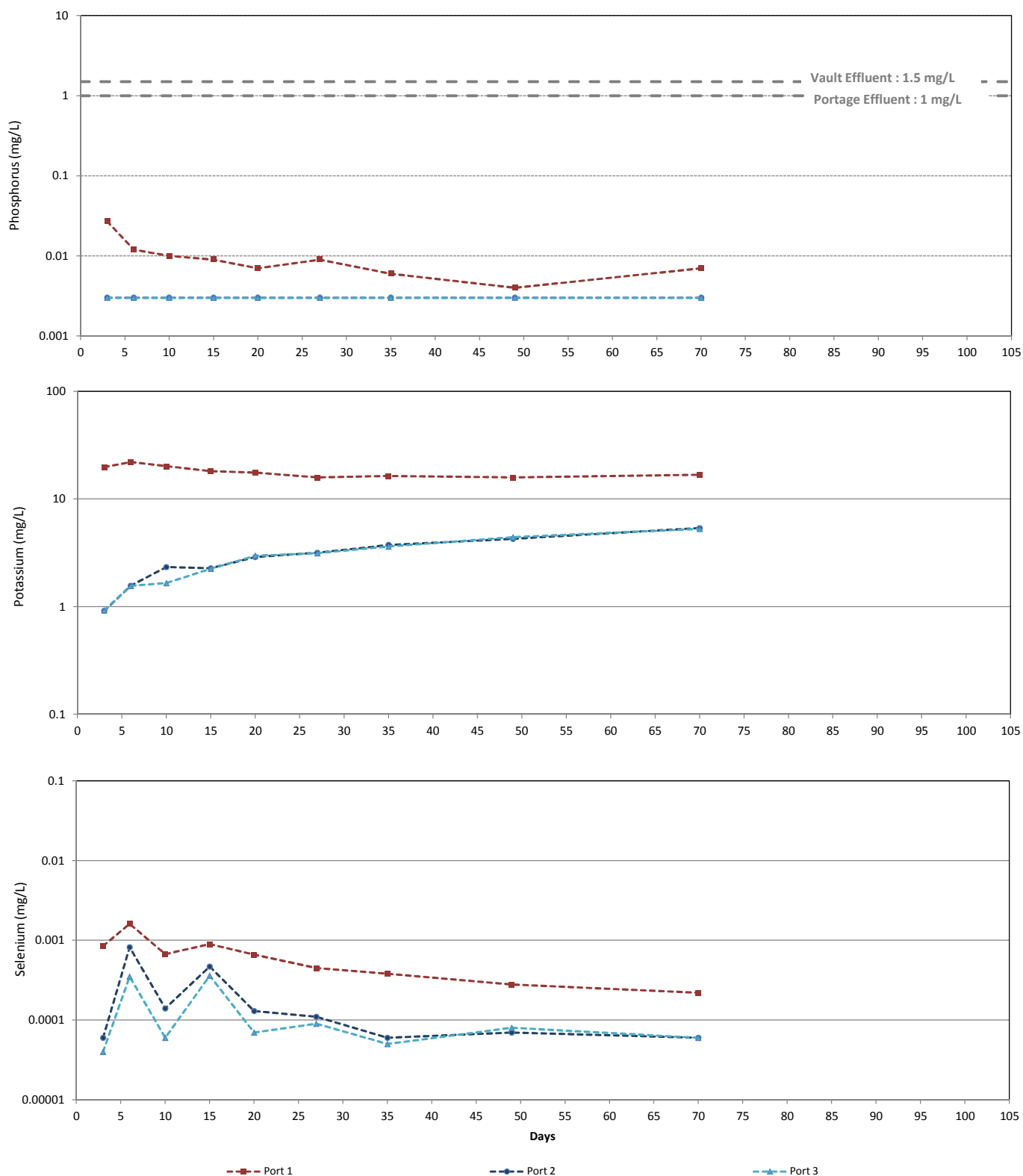


APPENDIX FIGURE

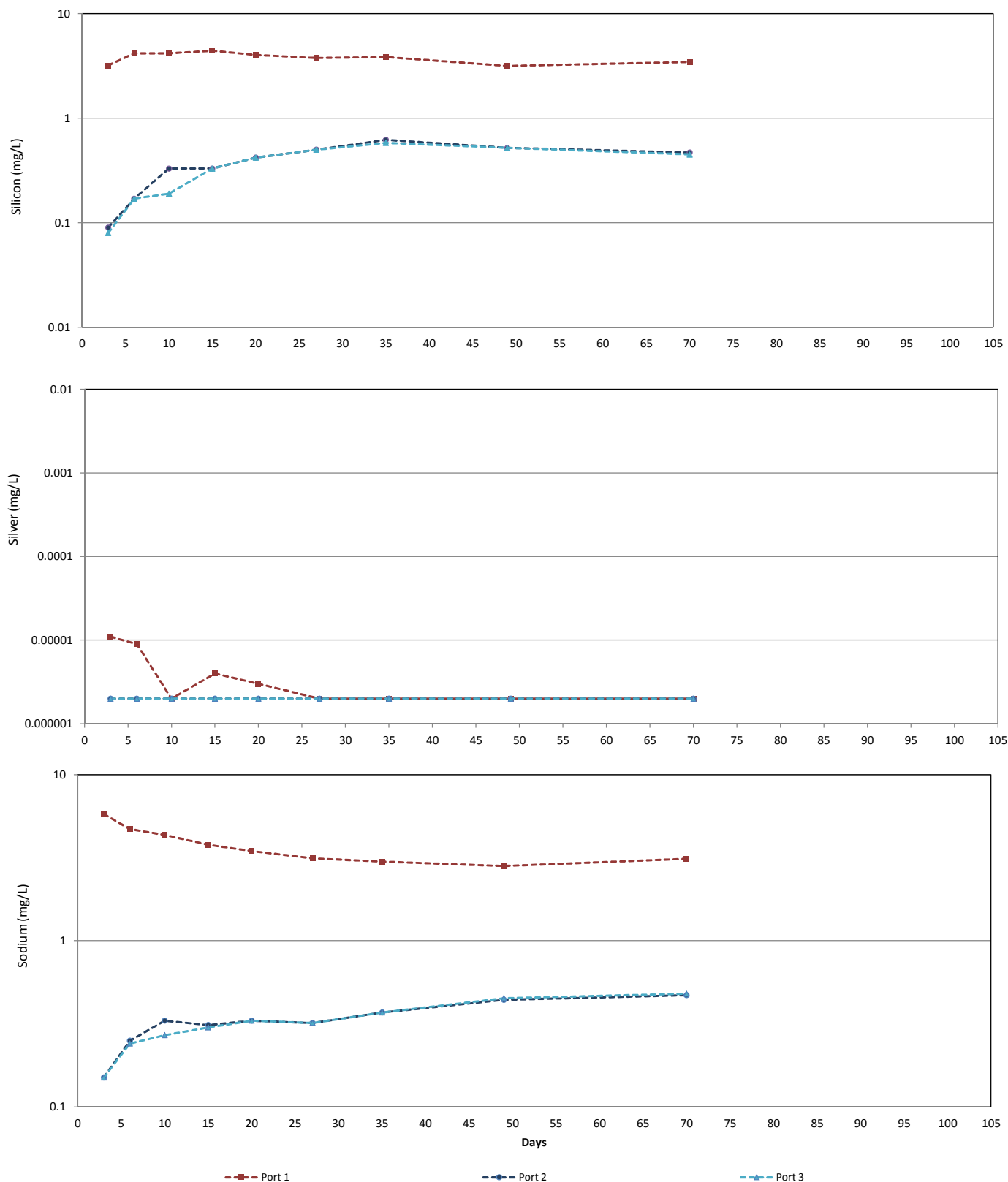
F-2.8



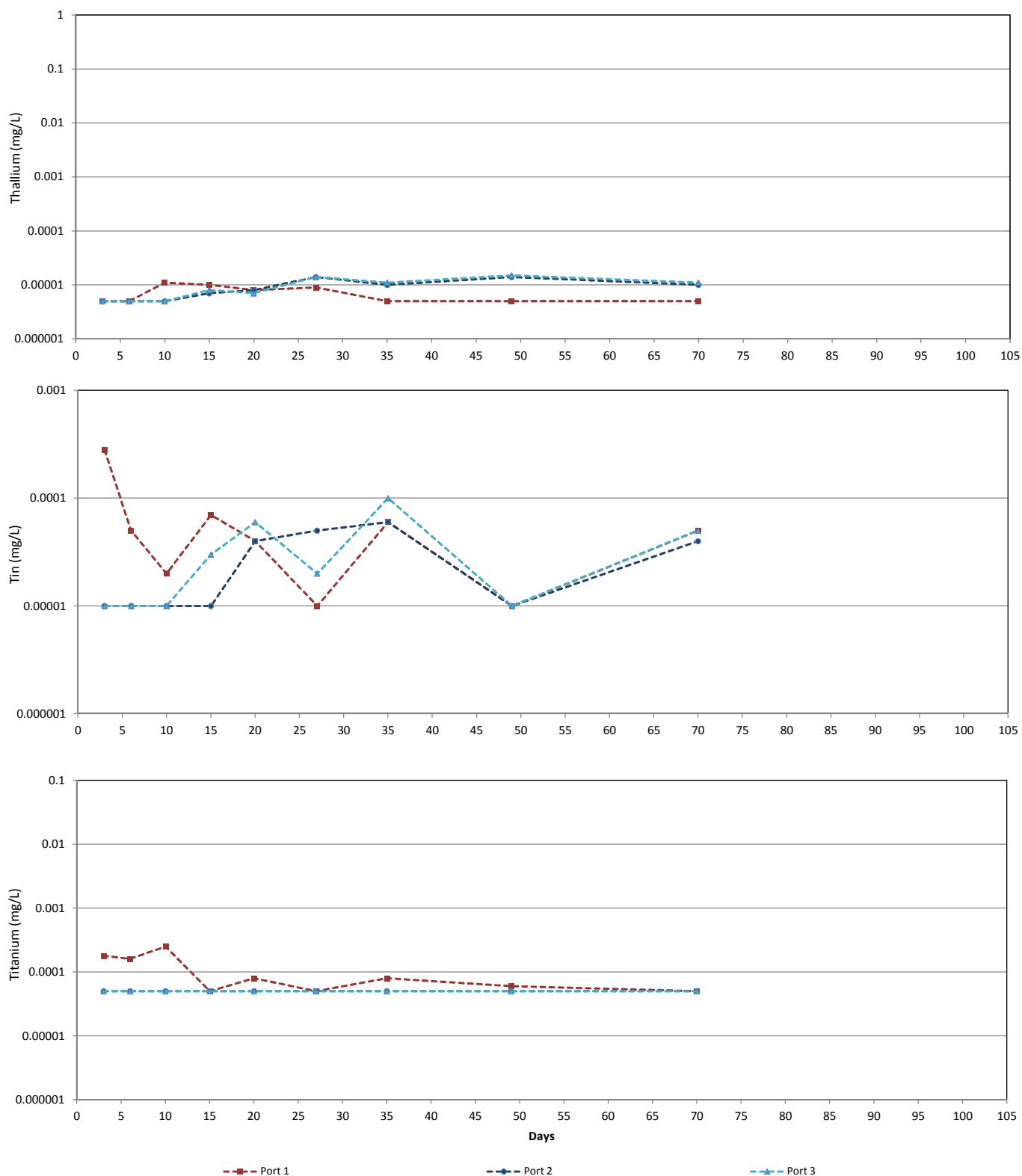
<u>Notes:</u>	<u>Rock Type:</u>	Mercury				Submerged Column - Ultramafic and Iron Formation Waste Rock (Oa, Ob, S9e)	
Portage NWB Effluent Limit (NWB, 2015) (NWB, 2015)	Port 1: 5 cm below Rock/Water Interface	Molybdenum					
Vault NWB Effluent Limit (NWB, 2015) (NWB, 2015)	Port 2: Rock/Water Interface	Nickel				Agnico Eagle Mines Limited	
Values < MDL are plotted as MDL value	Port 3: 30 cm above Rock Water Interface	DRAWN	CT	DATE	May-16	Meadowbank Division	
		CHECKED	JMC	JOB NO	1520817		
		REVIEWED	VJB	PHASE/TASK	3000	APPENDIX FIGURE	
						F-2.9	



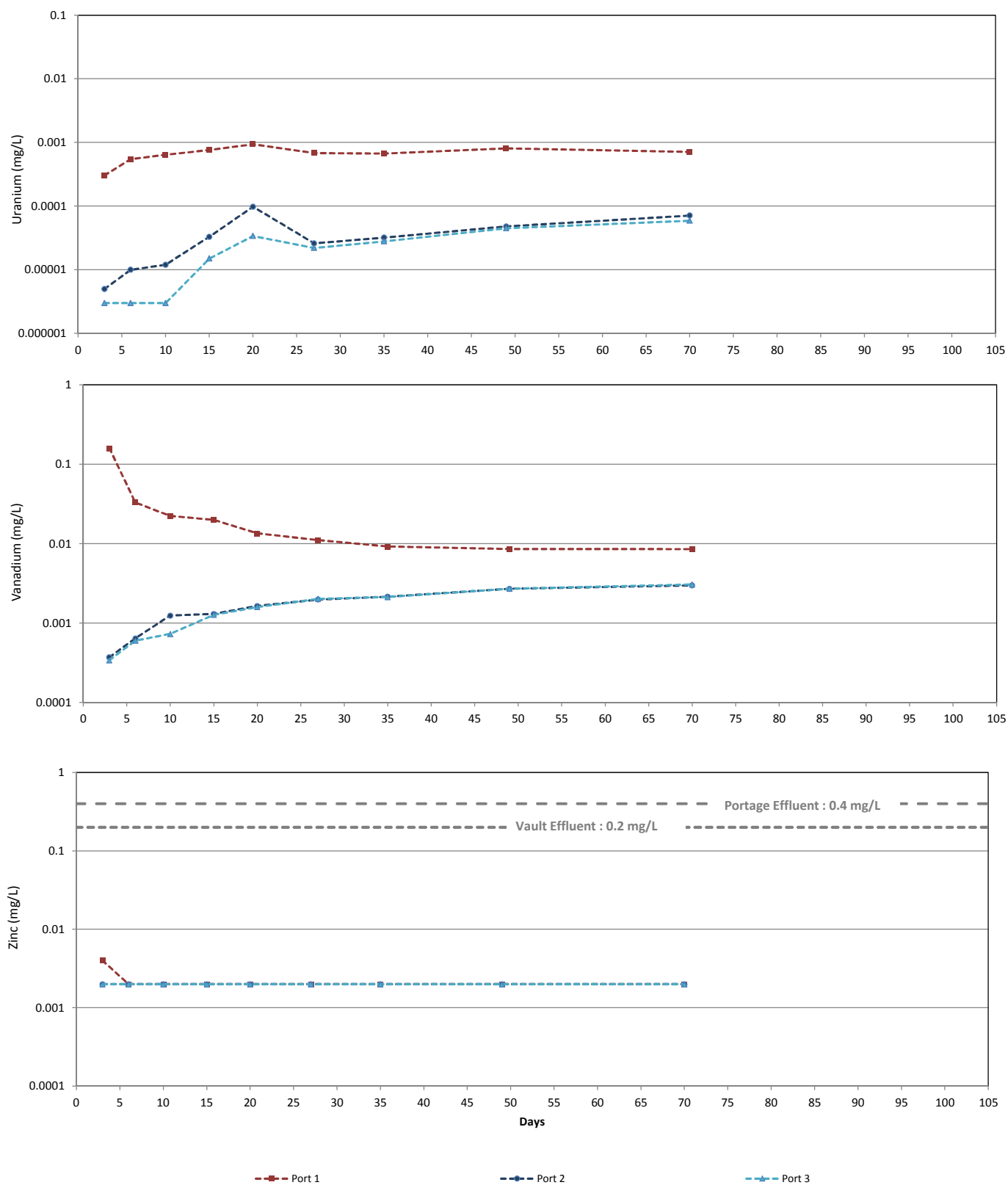
<u>Notes:</u>	<u>Rock Type:</u>	Phosphorus Potassium Selenium				Submerged Column - Ultramafic and Iron Formation Waste Rock (Oa, Ob, S9e)	
Portage NWB Effluent Limit (NWB, 2015) (NWB, 2015)	Port 1: 5 cm below Rock/Water Interface	DRAWN	CT	DATE	May-16	Agnico Eagle Mines Limited Meadowbank Division	
Vault NWB Effluent Limit (NWB, 2015) (NWB, 2015)	Port 2: Rock/Water Interface	CHECKED	JMC	JOB NO	1520817		
Values < MDL are plotted as MDL value	Port 3: 30 cm above Rock Water Interface	REVIEWED	VJB	PHASE/TASK	3000		
		APPENDIX FIGURE				F-2.10	



<u>Notes:</u> Portage NWB Effluent Limit (NWB, 2015) (NWB, 2015) Vault NWB Effluent Limit (NWB, 2015) (NWB, 2015) Values < MDL are plotted as MDL value	<u>Rock Type:</u> Port 1: 5 cm below Rock/Water Interface	Silicon Silver Sodium			Submerged Column - Ultramafic and Iron Formation Waste Rock (Oa, Ob, S9e)		
	Port 2: Rock/Water Interface Port 3: 30 cm above Rock Water Interface	DRAWN	CT	DATE	May-16	Agnico Eagle Mines Limited Meadowbank Division	
		CHECKED	JMC	JOB NO	1520817		
		REVIEWED	VJB	PHASE/TASK	3000		
						APPENDIX FIGURE	F-2.11



Notes: Portage NWB Effluent Limit (NWB, 2015) Vault NWB Effluent Limit (NWB, 2015) Values < MDL are plotted as MDL value	Rock Type: Port 1: 5 cm below Rock/Water Interface Port 2: Rock/Water Interface Port 3: 30 cm above Rock Water Interface	Thallium Tin Titanium		Submerged Column - Ultramafic and Iron Formation Waste Rock (Oa, Ob, S9e)	
		DRAWN CT CHECKED JMC REVIEWED VJB	DATE May-16 JOB NO 1520817 PHASE/TASK 3000	Agnico Eagle Mines Limited Meadowbank Division	
		APPENDIX FIGURE		F-2.12	



Notes:

Portage NWB Effluent Limit (NWB, 2015)
Vault NWB Effluent Limit (NWB, 2015)
Values < MDL are plotted as MDL value

Rock Type:

Port 1: 5 cm below Rock/Water Interface
Port 2: Rock/Water Interface
Port 3: 30 cm above Rock Water Interface

**Uranium
Vanadium
Zinc**

DRAWN	CT	DATE	May-16
CHECKED	JMC	JOB NO	1520817
REVIEWED	VJB	PHASE/TASK	3000

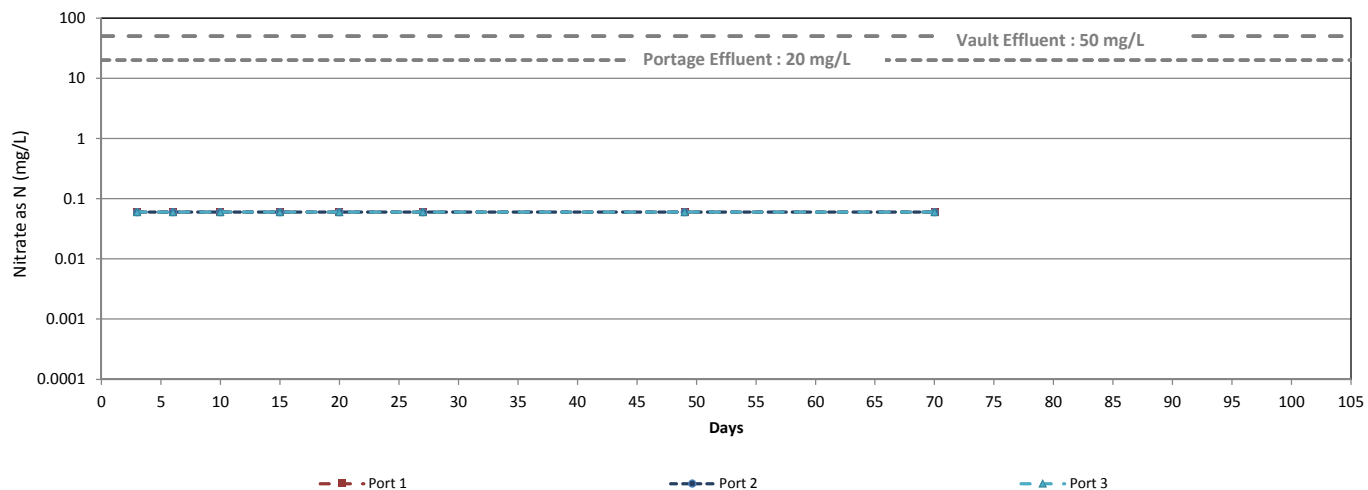
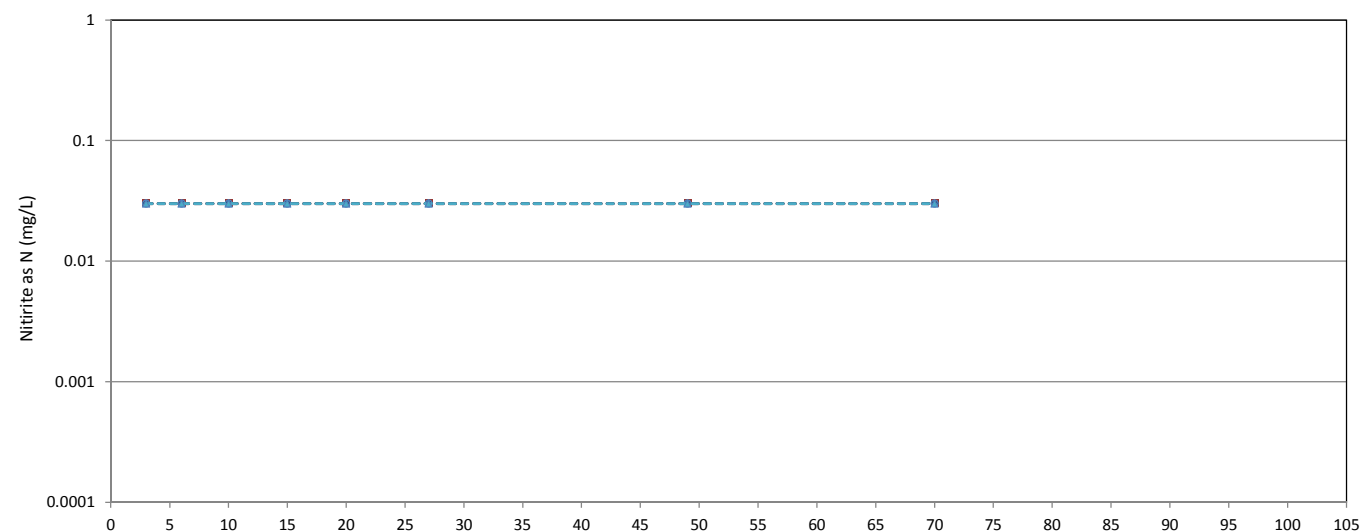
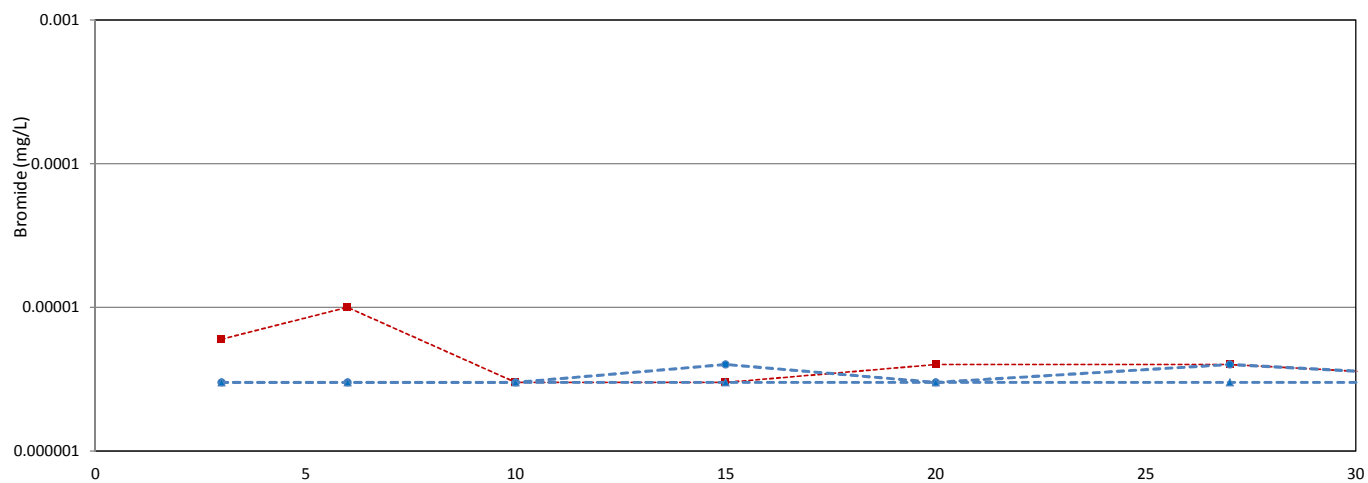
**Submerged Column - Ultramafic and Iron
Formation Waste Rock (Oa, Ob, S9e)**

**Agnico Eagle Mines Limited
Meadowbank Division**



APPENDIX FIGURE

F-2.13



<u>Notes:</u>	<u>Rock Type:</u>	Bromide			Submerged Column - Ultramafic and Iron Formation Waste Rock (Oa, Ob, S9e)		
Portage NWB Effluent Limit (NWB, 2015) (NWB, 2015)	Port 1: 5 cm below Rock/Water Interface	Nitrite (as N)					
Vault NWB Effluent Limit (NWB, 2015) (NWB, 2015)	Port 2: Rock/Water Interface	Nitrate (as N)					
Values < MDL are plotted as MDL value	Port 3: 30 cm above Rock Water Interface	DRAWN	CT	DATE	May-16	Agnico Eagle Mines Limited	
		CHECKED	JMC	JOB NO	1520817	Meadowbank Division	
		REVIEWED	VJB	PHASE/TASK	3000	APPENDIX FIGURE	
						F-2.14	



APPENDIX G

Laboratory Certificates of Analysis – Static



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09-February-2015

Date Rec. : 26 January 2015

LR Report: CA12407-JAN15

Reference: PO pending

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Approval Date	4: Approval Time	5: AMQ-ENV-01	6: AMQ-ENV-02	7: AMQ-ENV-03	8: AMQ-ENV-07	9: AMQ-ENV-08	10: AMQ-ENV-09	11: AMQ-ENV-10	12: AMQ-ENV-11	13: AMQ-ENV-12	14: AMQ-ENV-13
Sample Date & Time			Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Fluoride [µg/g]	05-Feb-15	16:27	130	138	211	2010	1330	175	110	199	200	199
Mercury [µg/g]	04-Feb-15	15:44	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aluminum [µg/g]	06-Feb-15	08:37	27000	18000	17000	27000	27000	28000	25000	16000	16000	18000
Silver [µg/g]	05-Feb-15	12:55	0.10	0.06	0.10	0.20	0.17	0.08	0.05	0.31	0.14	0.12
Arsenic [µg/g]	05-Feb-15	12:55	140	160	14	24	8.0	2.8	89	32	14	29
Boron [µg/g]	05-Feb-15	12:55	< 1	< 1	4	30	1	37	3	6	3	7
Barium [µg/g]	05-Feb-15	12:55	340	97	78	2500	1900	590	270	120	86	89
Beryllium [µg/g]	05-Feb-15	12:55	0.74	0.70	0.32	3.5	1.5	0.80	0.74	0.43	0.22	0.39
Bismuth [µg/g]	05-Feb-15	12:55	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	0.38	0.24	0.15
Calcium [µg/g]	05-Feb-15	15:57	42000	38000	3100	39000	20000	15000	32000	7500	6100	3500
Cadmium [µg/g]	05-Feb-15	12:55	0.12	0.10	0.06	0.13	0.10	0.06	0.07	0.22	0.09	0.10
Cobalt [µg/g]	05-Feb-15	12:55	37	42	11	26	25	29	37	11	11	13
Chromium [µg/g]	05-Feb-15	12:55	710	750	32	320	500	900	980	30	28	27
Copper [µg/g]	05-Feb-15	12:55	26	22	21	41	38	110	16	24	21	17
Iron [µg/g]	05-Feb-15	15:57	46000	30000	34000	47000	39000	40000	43000	28000	26000	37000
Potassium [µg/g]	05-Feb-15	15:57	18000	5000	5500	25000	24000	24000	15000	11000	5400	7800
Lithium [µg/g]	05-Feb-15	12:55	17	13	17	110	60	44	21	17	11	23
Magnesium [µg/g]	05-Feb-15	15:57	54000	37000	8900	42000	37000	45000	55000	8000	9100	10000
Manganese [µg/g]	05-Feb-15	12:56	870	760	510	860	480	550	820	430	450	550
Molybdenum [µg/g]	05-Feb-15	12:56	0.7	0.6	1.6	0.3	0.4	0.8	0.5	2.8	2.4	2.6



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Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: AMQ-ENV-01	6: AMQ-ENV-02	7: AMQ-ENV-03	8: AMQ-ENV-07	9: AMQ-ENV-08	10: AMQ-ENV-09	11: AMQ-ENV-10	12: AMQ-ENV-11	13: AMQ-ENV-12	14: AMQ-ENV-13
Sodium [µg/g]	05-Feb-15	15:57	100	37	520	230	340	180	83	580	630	410
Nickel [µg/g]	05-Feb-15	12:56	270	270	26	220	190	260	310	28	26	27
Phosphorus [µg/g]	05-Feb-15	15:57	800	730	760	8400	5000	950	720	640	650	700
Lead [µg/g]	05-Feb-15	12:56	16	4.5	5.0	7.8	22	2.0	3.2	29	12	10
Antimony [µg/g]	05-Feb-15	12:56	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Selenium [µg/g]	05-Feb-15	12:56	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Silicon [µg/g]	05-Feb-15	15:57	9200	6900	9200	7700	12000	10000	10000	10000	8500	7600
Tin [µg/g]	05-Feb-15	12:56	0.7	< 0.5	< 0.5	1.2	0.6	0.7	0.6	< 0.5	< 0.5	< 0.5
Strontium [µg/g]	05-Feb-15	12:56	240	270	12	710	430	78	150	25	28	16
Titanium [µg/g]	05-Feb-15	12:56	1600	600	650	3500	2800	2200	1500	970	570	740
Thallium [µg/g]	05-Feb-15	12:56	0.68	0.27	0.43	0.87	0.64	0.69	0.59	0.66	0.40	0.40
Uranium [µg/g]	05-Feb-15	12:56	0.62	0.42	2.3	1.3	0.95	0.81	0.54	2.6	2.8	2.5
Vanadium [µg/g]	05-Feb-15	12:56	69	48	27	89	69	79	60	26	20	27
Zinc [µg/g]	05-Feb-15	12:56	44	26	55	63	56	44	37	60	60	56

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Analysis	15: AMQ-ENV-14	16: AMQ-ENV-16	17: AMQ-ENV-17	18: AMQ-ENV-18	19: AMQ-ENV-19	20: AMQ-ENV-20	21: AMQ-ENV-28	22: AMQ-ENV-29	23: AMQ-ENV-31	24: AMQ-ENV-32	25: AMQ-ENV-33
Sample Date & Time	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Fluoride [µg/g]	198	18	23	196	200	227	164	116	130	11	13
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
Aluminum [µg/g]	19000	13000	18000	18000	19000	21000	20000	8700	25000	15000	15000
Silver [µg/g]	0.15	0.12	0.10	0.14	0.16	0.11	0.18	0.36	0.13	0.08	0.28
Arsenic [µg/g]	22	380	150	33	26	33	90	97	1500	440	190
Boron [µg/g]	6	1	< 1	3	16	4	6	3	5	1	1
Barium [µg/g]	110	6.2	22	96	90	120	76	28	120	11	11
Beryllium [µg/g]	0.30	0.09	0.08	0.38	0.31	0.18	0.47	0.48	0.20	0.09	0.06
Bismuth [µg/g]	0.19	< 0.09	< 0.09	0.20	0.24	0.14	0.16	0.18	< 0.09	< 0.09	< 0.09
Calcium [µg/g]	3000	30000	9500	4700	5100	6200	2300	6300	7600	32000	29000
Cadmium [µg/g]	0.07	0.04	0.05	0.10	0.71	0.11	0.08	0.03	0.06	0.06	0.04
Cobalt [µg/g]	13	69	61	13	14	14	9.9	4.1	97	67	54
Chromium [µg/g]	31	680	950	34	33	38	25	7.1	1600	720	840
Copper [µg/g]	29	13	74	32	32	32	21	7.5	23	24	51
Iron [µg/g]	34000	21000	28000	33000	32000	33000	46000	65000	49000	25000	30000
Potassium [µg/g]	8000	640	2500	8800	6800	12000	7800	4900	12000	1300	1100
Lithium [µg/g]	22	4	8	16	25	18	19	6	28	8	6
Magnesium [µg/g]	9800	34000	32000	9300	11000	11000	10000	5000	32000	39000	37000
Manganese [µg/g]	480	610	450	480	470	570	760	1200	1200	750	620
Molybdenum [µg/g]	2.4	0.1	0.1	2.6	2.5	2.4	2.6	1.1	0.4	< 0.1	< 0.1



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Sodium [µg/g]	600	33	110	540	710	820	560	170	140	28	38
Nickel [µg/g]	29	410	390	32	33	32	22	28	1400	410	320
Phosphorus [µg/g]	610	120	100	640	650	670	640	360	110	110	100
Lead [µg/g]	13	0.87	0.73	12	15	9.2	9.0	5.1	0.51	0.77	3.0
Antimony [µg/g]	< 0.8	3.1	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	1.3	15	1.3	1.0
Selenium [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Silicon [µg/g]	10000	6400	7700	9900	12000	11000	9200	14000	10000	7300	9300
Tin [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Strontium [µg/g]	16	64	21	16	18	22	8.6	8.7	11	71	99
Titanium [µg/g]	860	87	280	930	710	1100	890	270	1200	140	130
Thallium [µg/g]	0.50	0.02	0.10	0.53	0.36	0.63	0.66	0.18	0.28	0.03	0.04
Uranium [µg/g]	2.3	0.022	0.014	2.3	2.3	2.0	2.8	0.38	0.036	0.003	0.004
Vanadium [µg/g]	32	39	56	27	27	38	29	9	71	49	54
Zinc [µg/g]	61	18	24	66	80	75	54	17	47	18	17

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Sample Date & Time	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Fluoride [µg/g]	282	201	167	8	145	209	202	17	58	198	167
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
Aluminum [µg/g]	11000	12000	16000	13000	12000	21000	17000	12000	20000	14000	16000
Silver [µg/g]	0.29	0.50	0.20	0.11	0.23	0.39	0.14	0.10	0.14	0.15	0.17
Arsenic [µg/g]	180	810	33	350	280	25	42	820	180	65	22
Boron [µg/g]	9	16	6	< 1	5	8	3	1	3	3	14
Barium [µg/g]	41	76	77	4.9	49	140	87	30	24	120	77
Beryllium [µg/g]	0.89	0.48	0.32	0.05	0.34	0.34	0.22	0.18	0.13	0.43	0.20
Bismuth [µg/g]	0.30	0.37	0.26	< 0.09	0.22	0.75	0.25	< 0.09	< 0.09	0.15	0.29
Calcium [µg/g]	7600	6900	8800	35000	4800	4900	7300	67000	25000	5600	3000
Cadmium [µg/g]	0.28	0.21	0.10	0.07	0.04	0.14	0.16	0.17	0.07	0.25	0.10
Cobalt [µg/g]	6.0	7.5	11	57	7.3	10	13	73	45	11	13
Chromium [µg/g]	17	13	22	650	15	27	27	690	960	35	25
Copper [µg/g]	15	30	15	34	20	22	33	6.9	24	20	32
Iron [µg/g]	66000	48000	28000	24000	57000	31000	31000	34000	36000	22000	26000
Potassium [µg/g]	9200	6000	5400	520	5700	14000	7500	3600	3900	7200	4200
Lithium [µg/g]	11	15	14	5	8	26	15	9	14	16	21
Magnesium [µg/g]	7300	5800	8800	40000	6000	11000	8300	53000	39000	7600	8900
Manganese [µg/g]	640	620	510	670	1100	500	430	1660	860	400	460
Molybdenum [µg/g]	2.5	1.2	2.3	0.1	1.3	2.6	2.1	0.3	0.1	2.4	2.5



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Sodium [µg/g]	110	470	610	41	170	560	680	110	69	670	540
Nickel [µg/g]	20	18	24	340	20	25	25	650	400	26	30
Phosphorus [µg/g]	480	540	590	120	380	620	540	170	110	430	640
Lead [µg/g]	5.5	11	17	1.0	3.6	38	13	4.2	1.0	12	14
Antimony [µg/g]	0.8	0.9	< 0.8	0.9	0.8	< 0.8	< 0.8	1.1	< 0.8	< 0.8	< 0.8
Selenium [µg/g]	< 0.7	0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Silicon [µg/g]	7900	10000	10000	5800	11000	11000	8700	7800	7600	8200	7700
Tin [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Strontium [µg/g]	13	14	24	66	7.9	18	33	140	47	15	14
Titanium [µg/g]	450	390	530	68	360	1200	820	420	440	910	510
Thallium [µg/g]	0.39	0.34	0.33	< 0.02	0.24	0.77	0.53	0.14	0.14	0.41	0.29
Uranium [µg/g]	1.0	4.2	3.2	0.028	0.61	3.3	2.6	0.027	0.010	3.3	2.2
Vanadium [µg/g]	14	9	22	36	11	28	29	38	62	23	19
Zinc [µg/g]	51	62	53	15	36	57	63	24	28	70	65

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09-February-2015

Date Rec. : 26 January 2015

LR Report: CA12407-JAN15

Reference: PO pending

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	37: AMQ-ENV-112	38: AMQ-ENV-113	39: AMQ-ENV-114	40: AMQ-ENV-115	41: AMQ-ENV-116	42: AMQ-ENV-117	43: AMQ-ENV-118	44: AMQ-ENV-119	45: AMQ-ENV-120	46: AMQ-ENV-121	47: AMQ-ENV-122	48: AMQ-ENV-125
Sample Date & Time	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Fluoride [µg/g]	278	184	304	177	273	213	218	208	307	136	223	96
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
Aluminum [µg/g]	27000	33000	30000	24000	34000	20000	32000	28000	29000	23000	29000	27000
Silver [µg/g]	0.16	0.09	0.06	0.16	0.05	0.13	0.08	0.11	0.09	0.09	0.11	0.05
Arsenic [µg/g]	6.9	0.9	8.7	25	13	11	21	40	2.6	94	11	510
Boron [µg/g]	4	2	5	3	< 1	5	1	1	1	1	3	1
Barium [µg/g]	200	490	280	89	520	160	610	540	390	310	460	160
Beryllium [µg/g]	0.59	0.64	0.52	0.29	0.39	0.38	0.74	0.40	0.57	0.45	0.35	0.40
Bismuth [µg/g]	0.30	< 0.09	< 0.09	0.17	< 0.09	0.17	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
Calcium [µg/g]	7100	17000	6200	7500	17000	14000	21000	24000	12000	13000	12000	12000
Cadmium [µg/g]	0.08	0.08	0.06	0.16	0.06	0.09	0.06	0.07	0.05	0.03	0.09	0.06
Cobalt [µg/g]	19	24	15	16	29	14	31	32	24	40	23	60
Chromium [µg/g]	310	560	67	81	720	140	550	820	400	910	250	1000
Copper [µg/g]	42	40	19	30	30	30	39	40	51	20	66	36
Iron [µg/g]	40000	47000	55000	42000	55000	29000	51000	43000	45000	36000	54000	38000
Potassium [µg/g]	15000	20000	19000	5800	17000	11000	22000	15000	21000	19000	13000	12000
Lithium [µg/g]	35	26	47	23	23	26	25	19	24	31	21	27
Magnesium [µg/g]	28000	35000	17000	16000	41000	16000	40000	39000	28000	42000	25000	47000
Manganese [µg/g]	620	540	630	480	550	450	680	570	600	500	490	490
Molybdenum [µg/g]	1.0	0.6	1.5	1.2	0.3	1.1	0.5	0.3	0.6	0.7	0.9	0.3



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Analysis	37: AMQ-ENV-112	38: AMQ-ENV-113	39: AMQ-ENV-114	40: AMQ-ENV-115	41: AMQ-ENV-116	42: AMQ-ENV-117	43: AMQ-ENV-118	44: AMQ-ENV-119	45: AMQ-ENV-120	46: AMQ-ENV-121	47: AMQ-ENV-122	48: AMQ-ENV-125
Sodium [µg/g]	440	500	630	560	470	500	330	260	440	220	1000	84
Nickel [µg/g]	110	140	25	50	180	62	190	190	110	330	87	480
Phosphorus [µg/g]	1200	910	1400	590	970	670	970	960	1400	860	640	220
Lead [µg/g]	17	8.1	6.6	37	5.9	15	3.9	7.3	8.9	6.3	6.2	2.8
Antimony [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	1.3
Selenium [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Silicon [µg/g]	9600	11000	9300	8100	13000	9000	11000	12000	10000	11000	12000	7800
Tin [µg/g]	0.5	0.6	< 0.5	< 0.5	< 0.5	< 0.5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Strontium [µg/g]	22	67	20	24	120	34	200	280	55	130	47	92
Titanium [µg/g]	1300	1800	2100	950	1800	1000	2300	1900	1800	1900	1700	990
Thallium [µg/g]	0.49	0.46	0.79	0.28	0.35	0.45	0.68	0.33	0.58	0.66	0.32	0.37
Uranium [µg/g]	2.4	1.5	2.5	2.7	0.36	2.3	1.0	0.70	0.79	0.88	1.1	0.14
Vanadium [µg/g]	50	74	62	42	100	38	78	81	73	64	89	79
Zinc [µg/g]	55	54	87	76	65	49	61	48	59	36	64	36

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ABA - Modified Sobek With Siderite Corrected NP

19-February-2015

Date Rec. : 26 January 2015

LR Report: CA12408-JAN15

Reference: PO pending

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CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Paste pH	Fizz Rate ---	Sample weight g	HCl added mL	HCl Normality	NaOH Normality	NaOH to pH=8.3 mL	Final pH
3: Analysis Approval Date	06-Feb-15	06-Feb-15	06-Feb-15	06-Feb-15	06-Feb-15	06-Feb-15	06-Feb-15	06-Feb-15
4: Analysis Approval Time	14:07	14:07	14:07	14:07	14:07	14:07	14:07	14:07
5: AMQ-ENV-01	9.73	3	2.05	86.20	0.10	0.10	18.72	1.87
6: AMQ-ENV-02	9.72	3	2.10	81.50	0.10	0.10	20.73	1.65
7: AMQ-ENV-03	9.26	1	2.04	20.00	0.10	0.10	7.93	2.37
8: AMQ-ENV-07	8.83	3	1.98	52.40	0.10	0.10	16.57	1.74
9: AMQ-ENV-08	9.81	2	1.96	31.40	0.10	0.10	8.01	2.25
10: AMQ-ENV-09	9.91	3	2.13	40.00	0.10	0.10	7.69	2.33
11: AMQ-ENV-10	9.55	1	1.99	53.70	0.10	0.10	2.51	2.62
12: AMQ-ENV-11	10.00	2	2.12	20.00	0.10	0.10	5.00	2.72
13: AMQ-ENV-12	9.78	1	1.99	20.00	0.10	0.10	5.13	2.50
14: AMQ-ENV-13	9.23	1	2.03	20.00	0.10	0.10	6.79	2.43
15: AMQ-ENV-14	9.63	1	1.99	20.00	0.10	0.10	8.77	2.25
16: AMQ-ENV-16	9.65	3	2.06	59.10	0.10	0.10	10.97	2.04
17: AMQ-ENV-17	9.64	2	2.08	34.00	0.10	0.10	10.79	1.99
18: AMQ-ENV-18	9.78	1	2.13	20.00	0.10	0.10	6.15	2.56
19: AMQ-ENV-19	9.72	1	2.01	20.00	0.10	0.10	3.10	2.84
20: AMQ-ENV-20	9.98	1	2.00	20.00	0.10	0.10	5.65	2.69
21: AMQ-ENV-28	8.30	1	2.08	20.00	0.10	0.10	7.76	2.35
22: AMQ-ENV-29	8.51	1	2.04	20.00	0.10	0.10	6.15	2.34
23: AMQ-ENV-31	9.40	3	1.98	47.30	0.10	0.10	22.60	1.84
24: AMQ-ENV-32	9.59	3	1.99	64.80	0.10	0.10	12.63	1.84



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ABA - Modified Sobek With Siderite Corrected NP

LR Report :

CA12408-JAN15

Sample ID	Paste pH	Fizz Rate ---	Sample weight g	HCl added mL	HCl Normality	NaOH Normality	NaOH to pH=8.3 mL	Final pH
25: AMQ-ENV-33	9.63	3	2.07	56.30	0.10	0.10	10.90	2.07
26: AMQ-ENV-34	9.43	1	1.99	26.20	0.10	0.10	7.87	2.17
27: AMQ-ENV-36	9.15	1	2.06	24.80	0.10	0.10	6.08	2.54
28: AMQ-ENV-37	9.53	2	2.09	28.20	0.10	0.10	10.74	2.17
29: AMQ-ENV-39	9.68	3	2.08	62.10	0.10	0.10	5.66	2.20
30: AMQ-ENV-40	9.29	1	1.98	20.00	0.10	0.10	8.07	2.30
31: AMQ-ENV-41	10.01	1	2.08	20.00	0.10	0.10	3.75	2.75
32: AMQ-ENV-42	9.87	1	2.19	20.00	0.10	0.10	3.94	2.75
33: AMQ-ENV-43	9.44	3	1.96	149.30	0.10	0.10	29.81	1.91
34: AMQ-ENV-44	9.68	3	1.96	56.70	0.10	0.10	13.83	1.95
35: AMQ-ENV-46	9.87	1	2.06	20.00	0.10	0.10	7.27	2.58
36: AMQ-ENV-109	9.53	2	2.04	20.00	0.10	0.10	9.00	2.33
37: AMQ-ENV-112	9.56	1	2.04	20.00	0.10	0.10	4.49	2.80
38: AMQ-ENV-113	9.96	1	1.91	35.00	0.10	0.10	8.34	2.49
39: AMQ-ENV-114	9.96	1	2.03	24.20	0.10	0.10	5.90	2.55
40: AMQ-ENV-115	9.57	1	2.00	24.40	0.10	0.10	7.07	2.40
41: AMQ-ENV-116	9.89	3	2.02	36.50	0.10	0.10	9.45	2.15
42: AMQ-ENV-117	9.87	3	1.98	32.20	0.10	0.10	8.33	2.30
43: AMQ-ENV-118	9.99	3	2.12	49.30	0.10	0.10	14.23	2.03
44: AMQ-ENV-119	9.86	3	2.03	56.10	0.10	0.10	19.16	1.80
45: AMQ-ENV-120	9.96	3	2.09	32.20	0.10	0.10	9.56	2.33
46: AMQ-ENV-121	10.06	3	1.99	44.00	0.10	0.10	12.35	2.18
47: AMQ-ENV-122	9.60	2	2.04	36.80	0.10	0.10	14.89	2.07
48: AMQ-ENV-125	9.84	1	1.96	25.00	0.10	0.10	4.12	2.57

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19-February-2015

Date Rec. : 26 January 2015

LR Report: CA12408-JAN15

Reference: PO pending

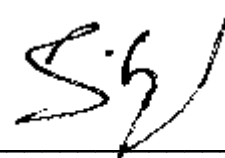
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CERTIFICATE OF ANALYSIS

Final Report

Sample ID	NP t CaCO ₃ /1000 t	AP t CaCO ₃ /1000 t	Net NP t CaCO ₃ /1000 t	NP/AP ratio	Sulphur (total) %	Acid Leachable SO ₄ -S %	Sulphide %	Carbon (total) %	Carbonate %	C(g) %
3: Analysis Approval Date	06-Feb-15	---	---	---	04-Feb-15	---	04-Feb-15	05-Feb-15	05-Feb-15	---
4: Analysis Approval Time	14:07	---	---	---	14:36	---	14:36	15:46	15:46	Feb05/15
5: AMQ-ENV-01	149	0.31	149	481	< 0.005	< 0.01	< 0.01	1.90	9.47	< 0.01
6: AMQ-ENV-02	127	0.31	127	410	< 0.005	< 0.01	< 0.01	1.51	7.52	< 0.01
7: AMQ-ENV-03	21	6.88	14.1	3.05	0.268	0.05	0.22	0.056	0.265	< 0.01
8: AMQ-ENV-07	76	0.31	75.7	243	0.039	0.03	0.01	0.567	2.82	< 0.01
9: AMQ-ENV-08	51	0.62	50.4	81.6	0.056	0.04	0.02	0.205	1.00	< 0.01
10: AMQ-ENV-09	70	0.62	69.4	112	0.044	0.02	0.02	0.533	2.64	< 0.01
11: AMQ-ENV-10	126	0.31	126	406	< 0.005	< 0.01	< 0.01	1.64	8.19	< 0.01
12: AMQ-ENV-11	30	2.81	27.2	10.7	0.283	0.19	0.09	0.155	0.749	0.01
13: AMQ-ENV-12	32	0.31	31.7	103	0.076	0.08	< 0.01	0.114	0.525	0.01
14: AMQ-ENV-13	25	2.50	22.5	10.0	0.113	0.03	0.08	0.077	0.365	< 0.01
15: AMQ-ENV-14	19	3.12	15.9	6.08	0.157	0.06	0.10	0.044	0.165	0.02
16: AMQ-ENV-16	108	0.31	108	348	0.022	0.02	< 0.01	1.29	6.43	< 0.01
17: AMQ-ENV-17	45	0.31	44.7	145	0.028	0.03	< 0.01	0.262	1.28	< 0.01
18: AMQ-ENV-18	26	5.94	20.1	4.38	0.307	0.12	0.19	0.086	0.390	0.01
19: AMQ-ENV-19	39	2.50	36.5	15.6	0.155	0.08	0.08	0.079	0.365	< 0.01
20: AMQ-ENV-20	30	1.56	28.4	19.2	0.154	0.10	0.05	0.103	0.460	0.01
21: AMQ-ENV-28	21	15.3	5.69	1.37	0.559	0.07	0.49	0.045	0.170	0.01
22: AMQ-ENV-29	27	93.4	-66.44	0.29	3.07	0.08	2.99	0.701	1.15	0.48
23: AMQ-ENV-31	42	4.38	37.6	9.60	0.184	0.04	0.14	0.285	1.40	< 0.01
24: AMQ-ENV-32	120	0.31	120	387	0.028	0.03	< 0.01	1.53	7.61	< 0.01

Sample ID	NP t CaCO ₃ /1000 t	AP t CaCO ₃ /1000 t	Net NP t CaCO ₃ /1000 t	NP/AP ratio	Sulphur (total) %	Acid Leachable SO ₄ -S %	Sulphide %	Carbon (total) %	Carbonate %	C(g) %
25: AMQ-ENV-33	100	0.31	99.7	323	0.017	0.02	< 0.01	1.11	5.53	< 0.01
26: AMQ-ENV-34	38	62.8	-24.81	0.60	2.25	0.24	2.01	1.32	1.58	0.96
27: AMQ-ENV-36	39	61.6	-22.56	0.63	2.19	0.22	1.97	0.293	1.30	0.03
28: AMQ-ENV-37	31	3.12	27.9	9.92	0.156	0.06	0.10	0.217	1.05	0.02
29: AMQ-ENV-39	131	0.31	131	423	0.035	0.04	< 0.01	1.78	8.88	< 0.01
30: AMQ-ENV-40	21	35.6	-14.62	0.59	1.32	0.18	1.14	0.292	0.934	0.12
31: AMQ-ENV-41	35	0.31	34.7	113	0.019	0.02	< 0.01	0.080	0.370	0.01
32: AMQ-ENV-42	33	2.19	30.8	15.1	0.201	0.13	0.07	0.144	0.679	0.02
33: AMQ-ENV-43	278	0.31	278	897	0.033	0.03	< 0.01	3.75	18.7	0.01
34: AMQ-ENV-44	97	0.31	96.7	313	0.020	0.02	< 0.01	1.03	5.12	< 0.01
35: AMQ-ENV-46	23	2.19	20.8	10.5	0.138	0.07	0.07	0.119	0.570	< 0.01
36: AMQ-ENV-109	17	1.56	15.4	10.9	0.089	0.04	0.05	0.055	0.235	< 0.01
37: AMQ-ENV-112	33	1.25	31.8	26.4	0.074	0.03	0.04	0.210	1.03	< 0.01
38: AMQ-ENV-113	60	1.88	58.1	32.0	0.099	0.04	0.06	0.415	2.07	< 0.01
39: AMQ-ENV-114	39	0.94	38.1	41.6	0.046	0.02	0.03	0.078	0.390	< 0.01
40: AMQ-ENV-115	36	1.88	34.1	19.2	0.091	0.03	0.06	0.156	0.774	< 0.01
41: AMQ-ENV-116	57	1.25	55.8	45.6	0.066	0.03	0.04	0.375	1.87	< 0.01
42: AMQ-ENV-117	51	2.50	48.5	20.4	0.094	0.01	0.08	0.361	1.79	0.03
43: AMQ-ENV-118	71	3.75	67.2	18.9	0.146	0.03	0.12	0.539	2.68	0.02
44: AMQ-ENV-119	74	0.31	73.7	237	0.020	0.01	0.01	0.664	3.29	< 0.01
45: AMQ-ENV-120	44	0.94	43.1	46.9	0.042	0.01	0.03	0.223	1.09	< 0.01
46: AMQ-ENV-121	69	0.31	68.7	223	0.020	0.02	< 0.01	0.432	2.15	< 0.01
47: AMQ-ENV-122	38	4.69	33.3	8.11	0.174	0.02	0.15	0.272	1.36	< 0.01
48: AMQ-ENV-125	49	4.38	44.6	11.2	0.249	0.11	0.14	0.307	1.52	< 0.01



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SFE-24hr 4:1 L/S Ratio

23-February-2015

Date Rec. : 26 January 2015
LR Report: CA12409-JAN15
Reference: OP431539-J

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	3:	4:	5:	6:	7:	8:	9:	10:	11:	12:	13:	14:
	Analysis Appr	Analysis Appr	AMQ-ENV-01	AMQ-ENV-02	AMQ-ENV-03	AMQ-ENV-07	AMQ-ENV-08	AMQ-ENV-09	AMQ-ENV-10	AMQ-ENV-11	AMQ-ENV-12	AMQ-ENV-13
Sample Date & Time			Date: N/A	Date: N/A	Date: N/A	Date: N/A	Date: N/A	Date: N/A	Date: N/A	Date: N/A	Date: N/A	Date: N/A
Sample weight [g]	13-Feb-15	09:05	200	200	200	200	200	200	200	200	200	200
Volume D.I. Water [mL]	13-Feb-15	09:05	800	800	800	800	800	800	800	800	800	800
Initial pH	13-Feb-15	09:05	9.73	9.78	7.92	8.75	9.76	9.78	9.59	9.33	9.48	8.71
Final pH	13-Feb-15	09:05	9.26	9.47	8.69	9.18	9.68	9.75	9.46	9.75	9.71	9.08
pH [no unit]	20-Feb-15	11:48	8.60	8.47	7.91	8.11	8.98	9.42	8.90	8.80	8.76	8.50
Alkalinity [mg/L as CaCO ₃]	19-Feb-15	12:57	41	35	36	37	37	46	63	35	34	36
Conductivity [uS/cm]	19-Feb-15	12:57	205	97	130	204	141	122	151	75	71	117
Fluoride [mg/L]	19-Feb-15	09:05	0.09	0.08	0.12	0.84	0.69	0.14	0.15	0.10	0.16	0.22
Chloride [mg/L]	19-Feb-15	14:40	< 2	< 2	< 2	< 2	< 2	2.5	3.4	< 2	< 2	3.0
Sulphate [mg/L]	19-Feb-15	14:40	50	6.7	8.7	44	19	4.4	3.3	< 2	2.1	8.9
Nitrite (as N) [mg/L]	19-Feb-15	09:23	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nitrate (as N) [mg/L]	19-Feb-15	09:23	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Bromide [mg/L]	19-Feb-15	09:23	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Phosphorus (total reactive) [mg/L]	17-Feb-15	08:56	0.14	< 0.03	< 0.03	0.04	0.09	0.04	0.04	0.06	< 0.03	< 0.03
Mercury [mg/L]	18-Feb-15	08:48	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Silver [mg/L]	18-Feb-15	14:37	< 0.000002	< 0.000002	0.000006	0.000007	0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	0.000007
Aluminum [mg/L]	17-Feb-15	14:37	0.02	0.01	0.54	0.05	0.12	0.05	0.01	2.03	1.79	0.59
Arsenic [mg/L]	20-Feb-15	14:40	0.848	0.265	0.0045	0.0440	0.0401	0.0483	0.314	0.121	0.0247	0.0373
Barium [mg/L]	18-Feb-15	14:37	0.0905	0.0251	0.00369	0.210	0.198	0.0373	0.0653	0.00635	0.00417	0.0182
Boron [mg/L]	18-Feb-15	14:37	0.0164	0.0127	0.0132	0.0101	0.0085	0.0147	0.0230	0.0191	0.0191	0.0826
Beryllium [mg/L]	18-Feb-15	14:37	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000010	< 0.000007	< 0.000007	0.000015	0.000008	0.000009
Bismuth [mg/L]	18-Feb-15	14:37	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000008

Online LIMS

0000351475



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SFE-24hr 4:1 L/S Ratio

LR Report :

CA12409-JAN15

Analysis	3: Analysis Appro	4: Analysis Appro	5: AMQ-ENV-01	6: AMQ-ENV-02	7: AMQ-ENV-03	8: AMQ-ENV-07	9: AMQ-ENV-08	10: AMQ-ENV-09	11: AMQ-ENV-10	12: AMQ-ENV-11	13: AMQ-ENV-12	14: AMQ-ENV-13
Calcium [mg/L]	17-Feb-15	14:37	12.2	5.74	11.9	16.5	7.78	4.06	7.73	2.85	3.82	3.09
Cadmium [mg/L]	18-Feb-15	14:37	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000004	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Cobalt [mg/L]	18-Feb-15	14:37	0.000129	0.000067	0.000055	0.000027	0.000118	0.000030	0.000274	0.000108	0.000086	0.000060
Chromium [mg/L]	18-Feb-15	14:37	0.00035	0.00019	0.00007	0.00035	0.00207	0.00097	0.00022	0.00032	0.00025	0.00068
Copper [mg/L]	18-Feb-15	14:37	0.00014	0.00030	0.00016	0.00082	0.00153	0.00027	0.00025	0.00020	0.00020	0.00032
Iron [mg/L]	17-Feb-15	14:37	< 0.002	< 0.002	0.028	0.010	0.098	0.026	< 0.002	0.155	0.092	0.188
Potassium [mg/L]	17-Feb-15	14:37	30.4	15.4	10.7	23.7	21.3	24.2	26.1	12.9	8.61	13.0
Lithium [mg/L]	18-Feb-15	14:37	0.00127	0.000598	0.00429	0.0182	0.00856	0.00103	0.00281	0.00281	0.000526	0.00321
Magnesium [mg/L]	17-Feb-15	14:37	3.87	1.69	1.27	3.16	1.28	0.941	2.79	0.234	0.256	0.795
Manganese [mg/L]	18-Feb-15	14:37	0.00088	0.00024	0.0216	0.00197	0.00173	0.00301	0.00057	0.00317	0.00207	0.00232
Molybdenum [mg/L]	18-Feb-15	14:37	0.00123	0.00049	0.00140	0.00529	0.00323	0.00491	0.00717	0.00061	0.00046	0.00219
Sodium [mg/L]	17-Feb-15	14:37	1.56	0.85	4.31	1.79	3.02	2.54	1.55	4.03	4.88	9.65
Nickel [mg/L]	18-Feb-15	14:37	0.0016	0.0007	0.0004	0.0005	0.0015	0.0005	0.0055	0.0005	0.0004	0.0005
Phosphorus [mg/L]	17-Feb-15	14:37	< 0.009	< 0.009	0.035	0.059	0.113	0.044	< 0.009	0.062	0.039	0.024
Lead [mg/L]	18-Feb-15	14:37	< 0.00001	< 0.00001	0.00002	< 0.00001	0.00050	0.00002	0.00007	0.00018	0.00031	0.00009
Antimony [mg/L]	18-Feb-15	14:37	0.0033	0.0026	0.0011	0.0026	0.0015	0.0054	0.0055	0.0032	0.0031	0.0028
Selenium [mg/L]	18-Feb-15	14:37	< 0.001	< 0.001	< 0.001	0.015	0.002	< 0.001	< 0.001	< 0.001	< 0.001	0.001
Silicon [mg/L]	17-Feb-15	14:37	4.45	4.84	2.18	5.43	10.0	9.56	5.10	4.23	4.07	2.77
Tin [mg/L]	18-Feb-15	14:37	0.00004	0.00003	0.00004	0.00003	0.00006	0.00003	0.00002	0.00004	0.00004	0.00006
Strontium [mg/L]	17-Feb-15	14:37	0.109	0.140	0.0233	0.243	0.204	0.0280	0.0673	0.0063	0.0147	0.0089
Titanium [mg/L]	18-Feb-15	14:37	< 0.00005	0.00007	0.00184	0.00075	0.00847	0.00153	0.00009	0.0102	0.00602	0.00589
Thallium [mg/L]	18-Feb-15	14:37	0.000042	0.000067	0.000014	0.000012	0.000007	0.000009	0.000027	0.000007	0.000007	0.000006
Uranium [mg/L]	18-Feb-15	14:37	0.000064	0.000008	0.000375	0.000976	0.000072	0.000037	0.000028	0.00108	0.000963	0.000261
Vanadium [mg/L]	18-Feb-15	14:37	0.00614	0.00514	0.00069	0.0373	0.0351	0.0163	0.00798	0.0111	0.00967	0.00378
Zinc [mg/L]	18-Feb-15	14:37	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

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SFE-24hr 4:1 L/S Ratio

23-February-2015

Date Rec. : 26 January 2015

LR Report: CA12409-JAN15

Reference: OP431539-J

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	15:	16:	17:	18:	19:	20:	21:	22:	23:	24:	25:	26:
	AMQ-ENV-14	AMQ-ENV-16	AMQ-ENV-17	AMQ-ENV-18	AMQ-ENV-19	AMQ-ENV-20	AMQ-ENV-28	AMQ-ENV-29	AMQ-ENV-31	AMQ-ENV-32	AMQ-ENV-33	AMQ-ENV-34
Sample Date & Time	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Sample weight [g]	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
Initial pH	8.15	9.87	9.87	9.43	9.36	9.27	5.21	8.94	9.45	9.81	9.86	9.32
Final pH	9.38	9.47	9.76	9.44	9.60	9.76	6.58	8.00	9.36	9.39	9.59	8.76
pH [no unit]	9.00	8.79	9.05	8.94	9.01	9.22	6.75	8.08	9.01	8.33	8.78	7.99
Alkalinity [mg/L as CaCO ₃]	24	34	34	41	39	41	3	64	43	44	45	52
Conductivity [uS/cm]	46	75	77	98	83	81	130	327	134	105	88	222
Fluoride [mg/L]	0.12	< 0.06	0.08	0.20	0.09	0.18	0.06	0.09	0.07	< 0.06	< 0.06	0.20
Chloride [mg/L]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	2.4	< 2	< 2
Sulphate [mg/L]	< 2	< 2	< 2	< 2	< 2	< 2	44	43	5.6	< 2	< 2	16
Nitrite (as N) [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nitrate (as N) [mg/L]	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Bromide [mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Phosphorus (total reactive) [mg/L]	0.08	< 0.03	< 0.03	100%	0.03	0.03	< 0.03	< 0.03	2.04	0.11	< 0.03	< 0.03
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
Silver [mg/L]	0.000005	< 0.000002	< 0.000002	0.000003	0.000002	< 0.000002	0.000010	0.000043	< 0.000002	< 0.000002	< 0.000002	0.000019
Aluminum [mg/L]	2.57	< 0.01	< 0.01	1.93	1.82	2.25	< 0.01	0.02	< 0.01	< 0.01	< 0.01	0.18
Arsenic [mg/L]	0.0747	0.310	0.180	0.0840	0.0661	0.0596	0.0309	0.0052	5.46	0.984	0.112	0.0803
Barium [mg/L]	0.0229	0.00625	0.00538	0.0330	0.0226	0.0181	0.00844	0.00707	0.0276	0.0196	0.0132	0.00248
Boron [mg/L]	0.136	0.0289	0.0321	0.0560	0.0609	0.0573	0.0156	0.0125	0.0162	0.0141	0.0228	0.0260
Beryllium [mg/L]	0.000030	< 0.000007	< 0.000007	0.000031	0.000017	0.000015	0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth [mg/L]	0.000019	< 0.000007	< 0.000007	0.000026	0.000023	0.000017	< 0.000007	0.000011	< 0.000007	< 0.000007	< 0.000007	< 0.000007



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SFE-24hr 4:1 L/S Ratio

LR Report :

CA12409-JAN15

Analysis	15: AMQ-ENV-14	16: AMQ-ENV-16	17: AMQ-ENV-17	18: AMQ-ENV-18	19: AMQ-ENV-19	20: AMQ-ENV-20	21: AMQ-ENV-28	22: AMQ-ENV-29	23: AMQ-ENV-31	24: AMQ-ENV-32	25: AMQ-ENV-33	26: AMQ-ENV-34
Calcium [mg/L]	0.25	5.54	4.02	3.65	2.61	1.88	3.25	29.8	11.7	5.20	3.78	17.4
Cadmium [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000074	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Cobalt [mg/L]	0.000307	0.000089	0.000016	0.000191	0.000100	0.000214	0.00781	0.000047	0.000054	0.000051	0.000057	0.000030
Chromium [mg/L]	0.00133	0.00020	0.00029	0.00119	0.00102	0.00120	< 0.00003	< 0.00003	0.00211	0.00030	0.00018	0.00005
Copper [mg/L]	0.00048	0.00019	0.00027	0.00037	0.00031	0.00040	0.00027	0.00022	0.00044	0.00018	0.00021	0.00041
Iron [mg/L]	0.805	0.005	< 0.002	0.352	0.234	0.345	0.007	0.005	< 0.002	< 0.002	< 0.002	0.009
Potassium [mg/L]	2.55	9.14	13.0	10.8	9.09	8.15	15.1	30.7	13.3	19.8	18.1	27.0
Lithium [mg/L]	0.00223	0.000030	0.000026	0.00228	0.00273	0.00168	0.00835	0.00382	0.00085	0.000107	0.000058	0.00402
Magnesium [mg/L]	0.260	1.96	0.705	0.434	0.322	0.256	2.26	3.19	3.49	2.11	1.23	1.95
Manganese [mg/L]	0.0106	0.00110	< 0.00001	0.00659	0.00372	0.00650	1.22	0.0872	0.00034	0.00013	0.00022	0.0104
Molybdenum [mg/L]	0.00121	0.00012	0.00005	0.00088	0.00080	0.00032	0.00009	0.00541	0.00047	0.00011	0.00004	0.00117
Sodium [mg/L]	9.45	0.58	2.48	9.69	9.53	10.8	4.82	1.80	0.68	0.51	0.65	1.38
Nickel [mg/L]	0.0015	0.0010	0.0002	0.0008	0.0003	0.0007	0.0349	0.0014	0.0037	0.0008	0.0005	0.0003
Phosphorus [mg/L]	0.097	0.011	< 0.009	0.038	0.042	0.056	< 0.009	0.012	0.015	0.010	< 0.009	< 0.009
Lead [mg/L]	0.00061	0.00002	< 0.00001	0.00036	0.00020	0.00036	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002
Antimony [mg/L]	0.0023	0.0147	0.0035	0.0027	0.0030	0.0026	0.0007	0.0022	0.0834	0.0185	0.0087	0.0034
Selenium [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.004	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silicon [mg/L]	5.38	5.00	7.38	4.80	4.66	5.99	4.97	2.65	9.57	4.74	5.07	2.11
Tin [mg/L]	0.00006	0.00003	0.00002	0.00007	0.00005	0.00005	0.00002	0.00003	0.00004	0.00002	0.00002	0.00004
Strontium [mg/L]	0.0024	0.0336	0.0305	0.0098	0.0060	0.0060	0.0183	0.0481	0.0303	0.0375	0.0400	0.0199
Titanium [mg/L]	0.0222	0.00013	0.00169	0.0212	0.0132	0.0183	0.00016	0.00010	0.00010	< 0.00005	0.00008	0.00021
Thallium [mg/L]	0.000011	0.000061	0.000047	0.000012	0.000008	0.000006	0.000047	0.000010	0.000005	0.000083	0.000054	0.000007
Uranium [mg/L]	0.000174	0.000002	< 0.000002	0.00190	0.00104	0.000692	0.000019	0.000547	0.000012	0.000004	< 0.000002	0.000437
Vanadium [mg/L]	0.0100	0.00494	0.00958	0.00908	0.0107	0.0133	0.00007	0.00007	0.0196	0.00571	0.00845	0.00026
Zinc [mg/L]	0.002	< 0.001	< 0.001	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

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SFE-24hr 4:1 L/S Ratio

23-February-2015

Date Rec. : 26 January 2015

LR Report: CA12409-JAN15

Reference: OP431539-J

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	27: AMQ-ENV-36	28: AMQ-ENV-37	29: AMQ-ENV-39	30: AMQ-ENV-40	31: AMQ-ENV-41	32: AMQ-ENV-42	33: AMQ-ENV-43	34: AMQ-ENV-44	35: AMQ-ENV-46	36: AMQ-ENV-109	37: AMQ-ENV-112
Sample Date & Time	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Sample weight [g]	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
Initial pH	9.39	9.62	9.72	8.86	9.33	9.58	9.82	9.65	9.37	7.78	9.56
Final pH	8.35	9.48	9.43	8.48	9.75	9.73	9.11	9.77	9.66	9.35	9.55
pH [no unit]	7.83	9.19	7.86	7.91	9.56	9.36	8.25	8.75	9.52	9.33	9.26
Alkalinity [mg/L as CaCO ₃]	39	62	42	41	54	52	66	42	54	53	56
Conductivity [uS/cm]	137	108	85	154	107	100	152	88	110	114	124
Fluoride [mg/L]	0.09	0.24	< 0.06	0.10	0.23	0.27	0.08	0.06	< 0.06	0.29	0.32
Chloride [mg/L]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Sulphate [mg/L]	6.8	< 2	< 2	10	< 2	< 2	3.3	< 2	< 2	4.3	4.0
Nitrite (as N) [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nitrate (as N) [mg/L]	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Bromide [mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Phosphorus (total reactive) [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	0.09	< 0.03	1.11	< 0.03	0.04	0.05	0.06
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
Silver [mg/L]	0.000006	0.000008	< 0.000002	0.000008	0.000002	0.000002	< 0.000002	< 0.000002	0.000004	0.000007	0.000046
Aluminum [mg/L]	0.31	1.05	< 0.01	0.09	2.18	1.79	0.01	0.01	2.31	1.50	0.42
Arsenic [mg/L]	0.0570	0.120	0.212	0.0074	0.125	0.0594	3.97	0.131	0.0987	0.0460	0.0384
Barium [mg/L]	0.00321	0.00452	0.0142	0.00518	0.00924	0.00581	0.0143	0.00428	0.0122	0.00551	0.00530
Boron [mg/L]	0.0160	0.0506	0.0234	0.0156	0.0718	0.0585	0.0555	0.101	0.0518	0.0653	0.0651
Beryllium [mg/L]	< 0.000007	0.000012	< 0.000007	< 0.000007	0.000021	0.000016	< 0.000007	< 0.000007	0.000030	0.000015	0.000011
Bismuth [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000008	0.000012	< 0.000007

Online LIMS

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SFE-24hr 4:1 L/S Ratio

LR Report :

CA12409-JAN15

Analysis	27: AMQ-ENV-36	28: AMQ-ENV-37	29: AMQ-ENV-39	30: AMQ-ENV-40	31: AMQ-ENV-41	32: AMQ-ENV-42	33: AMQ-ENV-43	34: AMQ-ENV-44	35: AMQ-ENV-46	36: AMQ-ENV-109	37: AMQ-ENV-112
Calcium [mg/L]	13.0	4.22	4.73	14.7	1.80	2.86	8.62	2.99	2.55	2.44	2.47
Cadmium [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000008	0.000015	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Cobalt [mg/L]	0.000020	0.000162	0.000235	0.000034	0.000214	0.000243	0.000349	0.000069	0.000172	0.000229	0.000117
Chromium [mg/L]	< 0.00003	0.00061	0.00013	< 0.00003	0.00098	0.00096	0.00117	0.00026	0.00097	0.00099	0.00301
Copper [mg/L]	0.00058	0.00043	0.00088	0.00023	0.00160	0.00039	0.00020	0.00028	0.00033	0.00058	0.00285
Iron [mg/L]	0.024	0.134	< 0.002	0.059	0.392	0.221	< 0.002	< 0.002	0.289	0.319	0.207
Potassium [mg/L]	11.9	10.7	13.6	14.6	14.0	7.24	15.2	13.9	8.95	8.92	12.1
Lithium [mg/L]	0.00378	0.00189	0.000053	0.00208	0.00553	0.00145	0.000413	0.000086	0.00156	0.00195	0.00186
Magnesium [mg/L]	1.42	0.428	2.00	2.11	0.263	0.225	5.37	0.511	0.305	0.400	0.461
Manganese [mg/L]	0.0118	0.00281	0.00020	0.0172	0.00724	0.00452	0.00080	0.00014	0.00524	0.00818	0.00353
Molybdenum [mg/L]	0.00153	0.00149	0.00008	0.00040	0.00077	0.00054	0.00015	0.00011	0.00117	0.00160	0.00605
Sodium [mg/L]	2.30	10.9	0.90	0.81	12.6	15.4	4.57	5.69	14.9	16.0	15.6
Nickel [mg/L]	0.0002	0.0009	0.0010	0.0004	0.0006	0.0008	0.0095	0.0004	0.0007	0.0009	0.0007
Phosphorus [mg/L]	0.011	0.023	< 0.009	< 0.009	0.050	0.021	< 0.009	< 0.009	0.032	0.053	0.069
Lead [mg/L]	0.00004	0.00014	0.00006	0.00004	0.00026	0.00041	0.00004	0.00001	0.00049	0.00049	0.00024
Antimony [mg/L]	0.0030	0.0048	0.0053	0.0021	0.0030	0.0041	0.0264	0.0071	0.0019	0.0028	0.0020
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
Silicon [mg/L]	2.86	3.69	4.27	3.38	5.72	5.82	5.24	5.34	5.38	3.77	5.38
Tin [mg/L]	0.00004	0.00006	0.00008	0.00003	0.00008	0.00005	0.00003	0.00006	0.00006	0.00004	0.0415
Strontium [mg/L]	0.0169	0.0088	0.0551	0.0172	0.0039	0.0093	0.0984	0.0489	0.0048	0.0057	0.0078
Titanium [mg/L]	0.00062	0.00740	< 0.00005	0.00045	0.0179	0.0138	0.00015	0.00013	0.0170	0.00973	0.00815
Thallium [mg/L]	< 0.000005	0.000006	0.000049	0.000007	0.000013	0.000007	0.000061	0.000053	0.000009	0.000009	0.000005
Uranium [mg/L]	0.00137	0.00163	0.000010	0.000130	0.00173	0.000881	0.000008	0.000002	0.000815	0.000759	0.000782
Vanadium [mg/L]	0.00045	0.00847	0.00309	0.00019	0.0133	0.0110	0.00951	0.00918	0.00922	0.00832	0.0165
Zinc [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001

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SFE-24hr 4:1 L/S Ratio

23-February-2015

Date Rec. : 26 January 2015

LR Report: CA12409-JAN15

Reference: OP431539-J

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	38: AMQ-ENV-113	39: AMQ-ENV-114	40: AMQ-ENV-115	41: AMQ-ENV-116	42: AMQ-ENV-117	43: AMQ-ENV-118	44: AMQ-ENV-119	45: AMQ-ENV-120	46: AMQ-ENV-121	47: AMQ-ENV-122	48: AMQ-ENV-125
Sample Date & Time	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Sample weight [g]	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
Initial pH	9.98	9.03	9.50	9.96	9.86	9.97	9.96	9.89	10.07	9.85	9.99
Final pH	9.97	9.67	9.48	10.03	9.66	10.14	10.00	9.90	9.94	9.39	9.74
pH [no unit]	9.68	9.65	9.40	10.1	8.15	9.76	9.98	10.1	9.98	8.85	9.87
Alkalinity [mg/L as CaCO ₃]	58	51	47	60	58	61	66	63	94	38	75
Conductivity [uS/cm]	128	120	110	143	134	148	155	147	216	131	196
Fluoride [mg/L]	0.21	0.27	0.21	0.28	0.26	0.25	0.31	0.36	0.33	0.16	0.31
Chloride [mg/L]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Sulphate [mg/L]	< 2	3.1	3.0	2.2	3.3	2.2	3.3	< 2	6.7	10	4.6
Nitrite (as N) [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nitrate (as N) [mg/L]	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Bromide [mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Phosphorus (total reactive) [mg/L]	< 0.03	0.09	< 0.03	< 0.03	0.04	0.03	0.04	0.07	0.12	< 0.03	1.11
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
Silver [mg/L]	0.000002	0.000003	0.000010	0.000013	0.000005	< 0.000002	< 0.000002	0.000002	< 0.000002	0.000007	0.000006
Aluminum [mg/L]	0.28	1.38	0.86	0.19	0.51	0.15	0.06	0.34	0.04	0.32	0.04
Arsenic [mg/L]	0.0027	0.0292	0.0577	0.0180	0.0454	0.0932	0.0929	0.0425	0.356	0.0194	3.31
Barium [mg/L]	0.00286	0.00763	0.00366	0.00284	0.00371	0.00476	0.00754	0.00621	0.00478	0.0237	0.00537
Boron [mg/L]	0.0627	0.0576	0.0545	0.0500	0.0498	0.0568	0.0593	0.0664	0.104	0.0152	0.117
Beryllium [mg/L]	< 0.000007	0.000017	0.000010	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000009	< 0.000007	< 0.000007	< 0.000007
Bismuth [mg/L]	< 0.000007	< 0.000007	0.000025	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000020	< 0.000007	< 0.000007	< 0.000007

Online LIMS

0000351496



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SFE-24hr 4:1 L/S Ratio

LR Report :

CA12409-JAN15

Analysis	38: AMQ-ENV-113	39: AMQ-ENV-114	40: AMQ-ENV-115	41: AMQ-ENV-116	42: AMQ-ENV-117	43: AMQ-ENV-118	44: AMQ-ENV-119	45: AMQ-ENV-120	46: AMQ-ENV-121	47: AMQ-ENV-122	48: AMQ-ENV-125
Calcium [mg/L]	1.71	1.93	4.18	1.87	3.37	1.92	2.21	2.29	2.04	5.67	2.95
Cadmium [mg/L]	0.000008	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Cobalt [mg/L]	0.000056	0.000175	0.000116	0.000030	0.000059	0.000012	0.000077	0.000216	0.000089	0.000030	0.000120
Chromium [mg/L]	0.00145	0.00152	0.00114	0.00171	0.00141	0.00118	0.00352	0.00629	0.00441	0.00028	0.00472
Copper [mg/L]	0.00030	0.00036	0.00034	0.00023	0.00036	0.00030	0.00035	0.00042	0.00078	0.00017	0.00022
Iron [mg/L]	0.030	0.551	0.213	0.048	0.065	0.015	0.097	0.382	0.080	0.017	0.061
Potassium [mg/L]	16.9	12.3	7.17	16.1	10.4	20.9	24.1	20.3	28.1	19.5	29.4
Lithium [mg/L]	0.000313	0.00284	0.00107	0.000216	0.00198	0.000289	0.000303	0.000793	0.000609	0.000523	0.000367
Magnesium [mg/L]	0.124	0.311	0.462	0.142	0.289	0.116	0.300	0.477	0.381	0.842	0.658
Manganese [mg/L]	0.00054	0.00699	0.00234	0.00074	0.00102	0.00027	0.00140	0.00538	0.00134	0.00038	0.00103
Molybdenum [mg/L]	0.00059	0.00920	0.00192	0.00044	0.00238	0.00029	0.00038	0.00075	0.00052	0.00249	0.00029
Sodium [mg/L]	12.8	14.8	13.8	16.2	17.1	12.7	13.3	14.3	23.1	6.02	14.9
Nickel [mg/L]	0.0004	0.0007	0.0007	0.0002	0.0007	0.0001	0.0006	0.0014	0.0013	0.0004	0.0016
Phosphorus [mg/L]	0.018	0.104	0.026	0.018	0.026	0.011	0.021	0.079	0.027	0.037	< 0.009
Lead [mg/L]	0.00009	0.00020	0.00058	0.00002	0.00009	< 0.00001	0.00003	0.00012	0.00013	< 0.00001	0.00002
Antimony [mg/L]	0.0028	0.0022	0.0040	0.0025	0.0025	0.0030	0.0041	0.0050	0.0165	0.0024	0.0367
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
Silicon [mg/L]	6.77	4.25	3.89	8.39	4.61	8.00	10.3	9.68	15.5	3.73	11.8
Tin [mg/L]	0.00171	0.00039	0.00026	0.00006	0.00009	0.00008	0.00006	0.00007	0.00010	0.00005	0.00005
Strontium [mg/L]	0.0173	0.0055	0.0119	0.0286	0.0097	0.0466	0.0177	0.0111	0.0247	0.0555	0.0398
Titanium [mg/L]	0.00188	0.0315	0.00783	0.00247	0.00377	0.00108	0.00594	0.0146	0.00395	0.00118	0.00189
Thallium [mg/L]	< 0.000005	0.000009	< 0.000005	< 0.000005	0.000006	< 0.000005	< 0.000005	0.000006	< 0.000005	0.000005	0.000005
Uranium [mg/L]	0.000089	0.000657	0.000577	0.000015	0.000845	0.000030	0.000014	0.000085	0.000021	0.000039	0.000012
Vanadium [mg/L]	0.0252	0.0135	0.00849	0.0252	0.0121	0.0179	0.0251	0.0337	0.0262	0.00915	0.0288
Zinc [mg/L]	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

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Sequential NAG Test-Phase 1

Project : PO#460193

16-December-2015

Date Rec. : 03 December 2015

LR Report: CA15042-DEC15

Reference: Project # 1520817

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	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	15-Dec-15	15-Dec-15	15-Dec-15	15-Dec-15	15-Dec-15	15-Dec-15	15-Dec-15	15-Dec-15
4: Analysis Approval Time	16:23	16:23	16:23	16:23	16:23	16:23	16:23	16:23
5: AMQ-ENV15-007	1.48	150	9.63	0.10	0.00	0.00	0.0	0.0
6: AMQ-ENV15-008	1.50	150	2.50	0.10	6.77	9.17	22	30
7: AMQ-ENV15-025	1.51	150	7.63	0.10	0.00	0.00	0.0	0.0
8: AMQ-ENV-109	1.48	150	6.70	0.10	0.00	0.21	0.0	0.7
9: AMQ-ENV15-042	1.50	150	8.07	0.10	0.00	0.00	0.0	0.0
10: AMQ-ENV15-098	1.57	150	4.34	0.10	0.50	1.00	1.6	3.1
11: AMQ-ENV15-064	1.56	150	4.38	0.10	0.08	0.44	0.3	1.4
12: AMQ-ENV15-106	1.56	150	5.24	0.10	0.00	0.19	0.0	0.6
13: AMQ-ENV15-108	1.45	150	5.79	0.10	0.00	0.22	0.0	0.7
14: AMQ-ENV15-065	1.56	150	4.82	0.10	0.00	0.22	0.0	0.7
15: AMQ-ENV15-066	1.51	150	4.31	0.10	0.07	0.24	0.2	0.8
16: AMQ-ENV15-073	1.53	150	4.24	0.10	0.10	0.39	0.3	1.2
17: AMQ-ENV15-074	1.54	150	6.26	0.10	0.00	0.25	0.0	0.8
18: AMQ-ENV15-097	1.49	150	7.58	0.10	0.00	0.00	0.0	0.0
19: AMQ-ENV15-107	1.58	150	6.93	0.10	0.00	0.13	0.0	0.4
20: AMQ-ENV15-095	1.49	150	7.15	0.10	0.00	0.00	0.0	0.0
21: AMQ-ENV15-096	1.50	150	5.61	0.10	0.00	0.23	0.0	0.8



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Sequential NAG Test-Phase 1

Project : PO#460193

LR Report : CA15042-DEC15

Sample ID	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: AMQ-ENV15-056	1.52	150	6.05	0.10	0.00	0.08	0.0	0.3
23: AMQ-ENV15-115	1.53	150	4.80	0.10	0.00	0.29	0.0	0.9
24: AMQ-ENV15-035	1.54	150	2.83	0.10	3.71	4.82	12	15
25: AMQ-ENV15-027	1.51	150	6.92	0.10	0.00	0.44	0.0	1.4
26: AMQ-ENV15-034	1.57	150	2.87	0.10	3.24	4.31	10	14
27: AMQ-ENV15-010	1.50	150	6.84	0.10	0.00	0.10	0.0	0.3
28: AMQ-ENV-56	1.49	150	4.64	0.10	0.00	0.46	0.0	1.5
29: AMQ-ENV-57	1.51	150	3.65	0.10	0.53	1.27	1.7	4.1

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

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Sequential NAG Test-Phase 2

Project : PO#460193

17-December-2015

Date Rec. : 03 December 2015

LR Report: CA15043-DEC15

Reference: Project# 1520817

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	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	17-Dec-15	17-Dec-15	17-Dec-15	17-Dec-15	17-Dec-15	17-Dec-15	17-Dec-15	17-Dec-15
4: Analysis Approval Time	08:56	08:56	08:56	08:56	08:56	08:56	08:56	08:56
5: AMQ-ENV15-007	1.48	150	3.95	0.10	0.15	0.58	0.5	1.9
6: AMQ-ENV15-008	1.50	150	3.45	0.10	0.79	1.46	2.6	4.8
7: AMQ-ENV15-025	1.51	150	8.05	0.10	0.00	0.00	0.0	0.0
8: AMQ-ENV-109	1.48	150	6.94	0.10	0.00	0.22	0.0	0.7
9: AMQ-ENV15-042	1.50	150	7.51	0.10	0.00	0.00	0.0	0.0
10: AMQ-ENV15-098	1.57	150	5.47	0.10	0.00	0.69	0.0	2.2
11: AMQ-ENV15-064	1.56	150	5.72	0.10	0.00	0.33	0.0	1.0
12: AMQ-ENV15-106	1.56	150	6.10	0.10	0.00	0.34	0.0	1.1
13: AMQ-ENV15-108	1.45	150	6.52	0.10	0.00	0.30	0.0	1.0
14: AMQ-ENV15-065	1.56	150	5.94	0.10	0.00	0.14	0.0	0.4
15: AMQ-ENV15-066	1.51	150	6.16	0.10	0.00	0.13	0.0	0.4
16: AMQ-ENV15-073	1.53	150	5.75	0.10	0.00	0.18	0.0	0.6
17: AMQ-ENV15-074	1.54	150	6.74	0.10	0.00	0.20	0.0	0.6
18: AMQ-ENV15-097	1.49	150	6.69	0.10	0.00	0.18	0.0	0.6
19: AMQ-ENV15-107	1.58	150	7.20	0.10	0.00	0.00	0.0	0.0
20: AMQ-ENV15-095	1.49	150	3.85	0.10	0.38	0.76	1.2	2.5
21: AMQ-ENV15-096	1.50	150	3.95	0.10	0.24	0.58	0.8	1.9



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Sequential NAG Test-Phase 2

Project : PO#460193

LR Report : CA15043-DEC15

Sample ID	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: AMQ-ENV15-056	1.52	150	6.38	0.10	0.00	0.19	0.0	0.6
23: AMQ-ENV15-115	1.53	150	5.14	0.10	0.00	0.23	0.0	0.7
24: AMQ-ENV15-035	1.54	150	3.98	0.10	0.19	0.35	0.6	1.1
25: AMQ-ENV15-027	1.51	150	3.93	0.10	0.25	0.52	0.8	1.7
26: AMQ-ENV15-034	1.57	150	3.80	0.10	0.28	0.53	0.9	1.7
27: AMQ-ENV15-010	1.50	150	4.32	0.10	0.13	0.38	0.4	1.2
28: AMQ-ENV-56	1.49	150	5.90	0.10	0.00	0.14	0.0	0.5
29: AMQ-ENV-57	1.50	150	5.02	0.10	0.00	0.23	0.0	0.8

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Lakefield - Ontario - KOL 2H0

Phone: 705-652-2000 FAX: 705-652-6365

Agnico Eagle Mines Limited

Attn : Serge Ouellet

10200, route de Pressac, Rouyn-Noranda

, J0Y 1C0

Phone: (819) 759-3700 x5820, Fax:(819) 759-3663

Sequential NAG Test-Phase 3

Project : PO#460193

18-December-2015

Date Rec. : 03 December 2015

LR Report: CA15044-DEC15

Reference: project #1520817

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	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	18-Dec-15	18-Dec-15	18-Dec-15	18-Dec-15	18-Dec-15	18-Dec-15	18-Dec-15	18-Dec-15
4: Analysis Approval Time	08:33	08:33	08:33	08:33	08:33	08:33	08:33	08:33
5: AMQ-ENV15-007	1.48	150	5.15	0.10	0.00	0.08	0.0	0.3
6: AMQ-ENV15-008	1.50	150	4.09	0.10	0.13	0.29	0.4	0.9
7: AMQ-ENV15-025	1.51	150	6.34	0.10	0.00	0.05	0.0	0.2
8: AMQ-ENV-109	1.48	150	6.35	0.10	0.00	0.28	0.0	0.9
9: AMQ-ENV15-042	1.50	150	7.06	0.10	0.00	0.00	0.0	0.0
10: AMQ-ENV15-098	1.57	150	6.05	0.10	0.00	0.24	0.0	0.7
11: AMQ-ENV15-064	1.56	150	5.88	0.10	0.00	0.33	0.0	1.0
12: AMQ-ENV15-106	1.56	150	6.23	0.10	0.00	0.15	0.0	0.5
13: AMQ-ENV15-108	1.45	150	6.50	0.10	0.00	0.09	0.0	0.3
14: AMQ-ENV15-065	1.56	150	6.12	0.10	0.00	0.21	0.0	0.7
15: AMQ-ENV15-066	1.51	150	6.30	0.10	0.00	0.14	0.0	0.5
16: AMQ-ENV15-073	1.53	150	5.99	0.10	0.00	0.24	0.0	0.8
17: AMQ-ENV15-074	1.54	150	6.51	0.10	0.00	0.06	0.0	0.2
18: AMQ-ENV15-097	1.49	150	6.76	0.10	0.00	0.05	0.0	0.2
19: AMQ-ENV15-107	1.58	150	6.95	0.10	0.00	0.04	0.0	0.1
20: AMQ-ENV15-095	1.49	150	4.89	0.10	0.00	0.12	0.0	0.4
21: AMQ-ENV15-096	1.50	150	4.86	0.10	0.00	0.13	0.0	0.4



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Sequential NAG Test-Phase 3

Project : PO#460193

LR Report : CA15044-DEC15

Sample ID	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: AMQ-ENV15-056	1.52	150	6.38	0.10	0.00	0.09	0.0	0.3
23: AMQ-ENV15-115	1.53	150	5.54	0.10	0.00	0.06	0.0	0.2
24: AMQ-ENV15-035	1.54	150	4.78	0.10	0.00	0.11	0.0	0.4
25: AMQ-ENV15-027	1.51	150	4.85	0.10	0.00	0.06	0.0	0.2
26: AMQ-ENV15-034	1.57	150	4.55	0.10	0.00	0.13	0.0	0.4
27: AMQ-ENV15-010	1.50	150	5.05	0.10	0.00	0.10	0.0	0.3
28: AMQ-ENV-56	1.49	150	6.39	0.10	0.00	0.08	0.0	0.3
29: AMQ-ENV-57	1.50	150	5.51	0.10	0.00	0.06	0.0	0.2

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



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Sequential NAG Test-Phase 4

Project : PO#460193

18-December-2015

Date Rec. : 03 December 2015

LR Report: CA15045-DEC15

Reference: Project #1520817

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	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	18-Dec-15	18-Dec-15	18-Dec-15	18-Dec-15	18-Dec-15	18-Dec-15	18-Dec-15	18-Dec-15
4: Analysis Approval Time	16:24	16:24	16:24	16:24	16:24	16:24	16:24	16:24
5: AMQ-ENV15-007	1.48	150	5.64	0.10	0.00	0.10	0.0	0.3
6: AMQ-ENV15-008	1.50	150	4.44	0.10	0.05	0.17	0.2	0.6
7: AMQ-ENV15-025	1.51	150	6.92	0.10	0.00	0.04	0.0	0.1
8: AMQ-ENV-109	1.48	150	6.05	0.10	0.00	0.37	0.0	1.2
9: AMQ-ENV15-042	1.50	150	6.56	0.10	0.00	0.11	0.0	0.4
10: AMQ-ENV15-098	1.57	150	5.83	0.10	0.00	0.47	0.0	1.5
11: AMQ-ENV15-064	1.56	150	5.93	0.10	0.00	0.28	0.0	0.9
12: AMQ-ENV15-106	1.56	150	6.03	0.10	0.00	0.21	0.0	0.7
13: AMQ-ENV15-108	1.45	150	6.30	0.10	0.00	0.13	0.0	0.4
14: AMQ-ENV15-065	1.56	150	6.01	0.10	0.00	0.29	0.0	0.9
15: AMQ-ENV15-066	1.51	150	6.02	0.10	0.00	0.33	0.0	1.1
16: AMQ-ENV15-073	1.53	150	5.71	0.10	0.00	0.60	0.0	1.9
17: AMQ-ENV15-074	1.54	150	6.41	0.10	0.00	0.13	0.0	0.4
18: AMQ-ENV15-097	1.49	150	6.55	0.10	0.00	0.08	0.0	0.3
19: AMQ-ENV15-107	1.58	150	6.75	0.10	0.00	0.07	0.0	0.2
20: AMQ-ENV15-095	1.49	150	5.27	0.10	0.00	0.10	0.0	0.3
21: AMQ-ENV15-096	1.50	150	5.35	0.10	0.00	0.10	0.0	0.3



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Sequential NAG Test-Phase 4

Project : PO#460193

LR Report : CA15045-DEC15

Sample ID	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: AMQ-ENV15-056	1.52	150	5.98	0.10	0.00	0.36	0.0	1.2
23: AMQ-ENV15-115	1.53	150	5.88	0.10	0.00	0.10	0.0	0.3
24: AMQ-ENV15-035	1.54	150	5.21	0.10	0.00	0.09	0.0	0.3
25: AMQ-ENV15-027	1.51	150	5.31	0.10	0.00	0.11	0.0	0.4
26: AMQ-ENV15-034	1.57	150	5.05	0.10	0.00	0.13	0.0	0.4
27: AMQ-ENV15-010	1.50	150	5.60	0.10	0.00	0.08	0.0	0.3
28: AMQ-ENV-56	1.49	150	6.38	0.10	0.00	0.08	0.0	0.3
29: AMQ-ENV-57	1.50	150	5.95	0.10	0.00	0.07	0.0	0.2

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Sequential NAG Test with Analyses-Phase
1

Project : PO#460193

Agnico Eagle Mines Limited

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16-December-2015

Date Rec. : 03 December 2015

LR Report: CA15046-DEC15

Reference: Project #1520817

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample weight g	Vol H2O2 mL	pH no unit	Sulphate mg/L
3: Analysis Approval Date	07-Dec-15	07-Dec-15	16-Dec-15	11-Dec-15
4: Analysis Approval Time	08:06	08:06	10:24	15:28
5: AMQ-ENV15-007	2.6	250	8.76	110
6: AMQ-ENV15-008	2.5	250	2.54	480
7: AMQ-ENV15-025	2.5	250	6.90	370
8: AMQ-ENV-109	2.6	250	6.18	35
9: AMQ-ENV15-042	2.5	250	7.70	38
10: AMQ-ENV15-098	2.5	250	4.31	99
11: AMQ-ENV15-064	2.6	250	4.41	87
12: AMQ-ENV15-106	2.6	250	4.98	110
13: AMQ-ENV15-108	2.6	250	5.46	99
14: AMQ-ENV15-065	2.5	250	4.92	97
15: AMQ-ENV15-066	2.5	250	5.26	88
16: AMQ-ENV15-073	2.5	250	5.57	66
17: AMQ-ENV15-074	2.6	250	6.59	96
18: AMQ-ENV15-097	2.6	250	7.02	90
19: AMQ-ENV15-107	2.5	250	6.87	69
20: AMQ-ENV15-095	2.5	250	5.65	200
21: AMQ-ENV15-096	2.5	250	4.18	280
22: AMQ-ENV15-056	2.5	250	5.61	98
23: AMQ-ENV15-115	2.5	250	4.66	270
24: AMQ-ENV15-035	2.5	250	2.80	330
25: AMQ-ENV15-027	2.5	250	6.44	250
26: AMQ-ENV15-034	2.6	250	2.88	420
27: AMQ-ENV15-010	2.6	250	3.46	380
28: AMQ-ENV-56	2.5	250	5.00	280
29: AMQ-ENV-57	2.5	250	3.59	260



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**Sequential NAG Test with Analyses-Phase
1**

Project : PO#460193

LR Report : CA15046-DEC15

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Sequential NAG Test with Analyses-Phase
2

Project : PO#460193

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16-December-2015

Date Rec. : 03 December 2015

LR Report: CA15047-DEC15

Reference: Project #1520817

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample weight g	Vol H2O2 mL	pH no unit	Sulphate mg/L
3: Analysis Approval Date	10-Dec-15	10-Dec-15	11-Dec-15	11-Dec-15
4: Analysis Approval Time	08:47	08:47	15:43	16:41
5: AMQ-ENV15-007	2.46	250	4.27	350
6: AMQ-ENV15-008	2.55	250	3.35	59
7: AMQ-ENV15-025	2.54	250	8.91	44
8: AMQ-ENV-109	2.46	250	7.03	2
9: AMQ-ENV15-042	2.48	250	7.48	3
10: AMQ-ENV15-098	2.58	250	5.44	12
11: AMQ-ENV15-064	2.58	250	5.48	10
12: AMQ-ENV15-106	2.50	250	5.75	6
13: AMQ-ENV15-108	2.54	250	6.22	4
14: AMQ-ENV15-065	2.49	250	5.80	6
15: AMQ-ENV15-066	2.48	250	5.99	5
16: AMQ-ENV15-073	2.45	250	5.56	5
17: AMQ-ENV15-074	2.45	250	6.40	3
18: AMQ-ENV15-097	2.49	250	6.64	16
19: AMQ-ENV15-107	2.53	250	7.11	3
20: AMQ-ENV15-095	2.46	250	4.30	29
21: AMQ-ENV15-096	2.48	250	4.52	23
22: AMQ-ENV15-056	2.50	250	6.21	4
23: AMQ-ENV15-115	2.49	250	8.34	16
24: AMQ-ENV15-035	2.54	250	3.87	27
25: AMQ-ENV15-027	2.64	250	5.29	100
26: AMQ-ENV15-034	2.51	250	3.77	41
27: AMQ-ENV15-010	2.46	250	4.33	33
28: AMQ-ENV-56	2.63	250	5.88	15
29: AMQ-ENV-57	2.53	250	4.86	17
30-DUP: AMQ-ENV-57	2.49	250	4.83	19
31-BLK: ~H2O2 Blank	---	250	4.46	1



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**Sequential NAG Test with Analyses-Phase
2**

Project : PO#460193

LR Report : CA15047-DEC15

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Sequential NAG Test with Analyses-Phase 3**Project :** PO#460193

16-December-2015

Agnico Eagle Mines Limited**Attn :** Serge Ouellet

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Date Rec. : 03 December 2015**LR Report:** CA15048-DEC15**Reference:** Project #1520817**Copy:** #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample weight g	Vol H2O2 mL	pH no unit	Sulphate mg/L
3: Analysis Approval Date	11-Dec-15	11-Dec-15	14-Dec-15	14-Dec-15
4: Analysis Approval Time	09:49	09:49	12:49	08:41
5: AMQ-ENV15-007	2.46	250	5.28	20
6: AMQ-ENV15-008	2.55	250	3.90	16
7: AMQ-ENV15-025	2.54	250	6.92	70
8: AMQ-ENV-109	2.46	250	7.85	1
9: AMQ-ENV15-042	2.48	250	7.15	1
10: AMQ-ENV15-098	2.58	250	5.83	1
11: AMQ-ENV15-064	2.58	250	5.85	1
12: AMQ-ENV15-106	2.50	250	6.08	1
13: AMQ-ENV15-108	2.54	250	6.27	1
14: AMQ-ENV15-065	2.49	250	6.05	1
15: AMQ-ENV15-066	2.48	250	6.13	1
16: AMQ-ENV15-073	2.45	250	5.78	1
17: AMQ-ENV15-074	2.45	250	6.42	1
18: AMQ-ENV15-097	2.49	250	6.79	2
19: AMQ-ENV15-107	2.53	250	7.28	1
20: AMQ-ENV15-095	2.46	250	5.00	5
21: AMQ-ENV15-096	2.48	250	6.40	7
22: AMQ-ENV15-056	2.50	250	6.20	1
23: AMQ-ENV15-115	2.49	250	5.48	6
24: AMQ-ENV15-035	2.54	250	5.91	7
25: AMQ-ENV15-027	2.64	250	4.65	12
26: AMQ-ENV15-034	2.51	250	4.50	11
27: AMQ-ENV15-010	2.46	250	4.80	8
28: AMQ-ENV-56	2.63	250	6.13	2
29: AMQ-ENV-57	2.53	250	5.46	5
30-DUP: AMQ-ENV-57	2.49	250	5.47	5
31-BLK: ~H2O2 Blank	---	250	4.60	1



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**Sequential NAG Test with Analyses-Phase
3**

Project : PO#460193

LR Report : CA15048-DEC15

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Environmental Services, Analytical*

**SGS Canada Inc.**

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Sequential NAG Test with Analyses-Phase 4**Project :** PO#460193

16-December-2015

Agnico Eagle Mines Limited**Attn :** Serge Ouellet

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Date Rec. : 03 December 2015**LR Report:** CA15049-DEC15**Reference:** Project# 1520817**Copy:** #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample weight g	Vol H2O2 mL	pH no unit	Sulphate mg/L
3: Analysis Approval Date	15-Dec-15	15-Dec-15	16-Dec-15	15-Dec-15
4: Analysis Approval Time	11:04	11:04	10:25	15:26
5: AMQ-ENV15-007	2.46	250	5.93	6
6: AMQ-ENV15-008	2.55	250	4.24	7
7: AMQ-ENV15-025	2.54	250	6.50	34
8: AMQ-ENV-109	2.46	250	6.18	< 1
9: AMQ-ENV15-042	2.48	250	6.85	< 1
10: AMQ-ENV15-098	2.58	250	5.85	< 1
11: AMQ-ENV15-064	2.58	250	5.86	< 1
12: AMQ-ENV15-106	2.50	250	6.20	< 1
13: AMQ-ENV15-108	2.54	250	6.23	< 1
14: AMQ-ENV15-065	2.49	250	6.03	< 1
15: AMQ-ENV15-066	2.48	250	6.11	< 1
16: AMQ-ENV15-073	2.45	250	5.77	< 1
17: AMQ-ENV15-074	2.45	250	6.49	< 1
18: AMQ-ENV15-097	2.49	250	6.99	< 1
19: AMQ-ENV15-107	2.53	250	6.73	< 1
20: AMQ-ENV15-095	2.46	250	5.26	2
21: AMQ-ENV15-096	2.48	250	5.41	3
22: AMQ-ENV15-056	2.50	250	6.20	< 1
23: AMQ-ENV15-115	2.49	250	5.72	2
24: AMQ-ENV15-035	2.54	250	5.08	3
25: AMQ-ENV15-027	2.64	250	5.19	4
26: AMQ-ENV15-034	2.51	250	4.82	5
27: AMQ-ENV15-010	2.46	250	5.12	4
28: AMQ-ENV-56	2.63	250	6.45	< 1
29: AMQ-ENV-57	2.53	250	5.80	< 1
30-DUP: AMQ-ENV-57	2.49	250	5.85	< 1
31-BLK: ~H2O2 Blank	---	250	4.61	< 10



SGS Canada Inc.

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**Sequential NAG Test with Analyses-Phase
4**

Project : PO#460193

LR Report : CA15049-DEC15

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Sequential NAG Test-Phase 1

13-October-2015

Date Rec. : 03 September 2015

LR Report: CA15049-SEP15

Reference: Project Number:1520817

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	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	09-Sep-15	09-Sep-15	09-Sep-15	09-Sep-15	09-Sep-15	09-Sep-15	09-Sep-15	09-Sep-15
4: Analysis Approval Time	16:17	16:17	16:17	16:17	16:17	16:17	16:17	16:17
5: AMQ-ENV-14	1.50	150	5.14	0.10	0.00	0.47	0.0	1.5
6: AMQ-ENV-13	1.50	150	6.77	0.10	0.00	0.06	0.0	0.2
7: AMQ-ENV-109	1.51	150	6.64	0.10	0.00	0.13	0.0	0.4
8: AMQ-ENV-40	1.58	150	2.71	0.10	3.84	5.14	12	16
9: AMQ-ENV-20	1.50	150	7.83	0.10	0.00	0.00	0.0	0.0
10: AMQ-ENV-46	1.50	150	8.02	0.10	0.00	0.00	0.0	0.0
11: AMQ-ENV-11	1.56	150	8.27	0.10	0.00	0.00	0.0	0.0
12: AMQ-ENV-18	1.55	150	5.22	0.10	0.00	0.37	0.0	1.2
13: AMQ-ENV-53	1.49	150	7.72	0.10	0.00	0.00	0.0	0.0
14: AMQ-ENV-19	1.55	150	7.43	0.10	0.00	0.00	0.0	0.0
15: AMQ-ENV-03	1.51	150	3.86	0.10	0.37	1.25	1.2	4.1
16: AMQ-ENV-42	1.49	150	8.27	0.10	0.00	0.00	0.0	0.0
17: AMQ-ENV-49	1.51	150	8.74	0.10	0.00	0.00	0.0	0.0
18: AMQ-ENV-17	1.50	150	10.23	0.10	0.00	0.00	0.0	0.0

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



SGS Canada Inc.

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Sequential NAG Test-Phase 1

LR Report :

CA15049-SEP15

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Sequential NAG Test-Phase 2

13-October-2015

Date Rec. : 03 September 2015

LR Report: CA15050-SEP15

Reference: Project Number:1520817

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	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-Sep-15	10-Sep-15	10-Sep-15	10-Sep-15	10-Sep-15	10-Sep-15	10-Sep-15	10-Sep-15
4: Analysis Approval Time	14:50	14:50	14:50	14:50	14:50	14:50	14:50	14:50
5: AMQ-ENV-14	1.50	150	6.03	0.10	0.00	0.20	0.0	0.0
6: AMQ-ENV-13	1.50	150	6.81	0.10	0.00	0.05	0.0	0.0
7: AMQ-ENV-109	1.51	150	6.82	0.10	0.00	0.05	0.0	0.0
8: AMQ-ENV-40	1.58	150	3.62	0.10	0.27	0.59	0.8	0.0
9: AMQ-ENV-20	1.50	150	7.17	0.10	0.00	0.00	0.0	0.0
10: AMQ-ENV-46	1.50	150	7.53	0.10	0.00	0.00	0.0	0.0
11: AMQ-ENV-11	1.56	150	6.74	0.10	0.00	0.05	0.0	0.0
12: AMQ-ENV-18	1.55	150	6.21	0.10	0.00	0.09	0.0	0.3
13: AMQ-ENV-53	1.49	150	7.09	0.10	0.00	0.00	0.0	0.0
14: AMQ-ENV-19	1.55	150	7.33	0.10	0.00	0.00	0.0	0.0
15: AMQ-ENV-03	1.51	150	5.38	0.10	0.00	0.27	0.0	0.9
16: AMQ-ENV-42	1.49	150	6.35	0.10	0.00	0.06	0.0	0.2
17: AMQ-ENV-49	1.51	150	11.26	0.10	0.00	0.00	0.0	0.0
18: AMQ-ENV-17	1.50	150	10.85	0.10	0.00	0.00	0.0	0.0



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Sequential NAG Test-Phase 2

LR Report :

CA15050-SEP15

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Sequential NAG Test-Phase 3

13-October-2015

Date Rec. : 03 September 2015
LR Report: CA15051-SEP15
Reference: Project Number:1520817

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	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	11-Sep-15	11-Sep-15	11-Sep-15	11-Sep-15	11-Sep-15	11-Sep-15	11-Sep-15	11-Sep-15
4: Analysis Approval Time	13:21	13:21	13:21	13:21	13:21	13:21	13:21	13:21
5: AMQ-ENV-14	1.50	150	5.54	0.10	0.00	0.80	0.0	2.6
6: AMQ-ENV-13	1.50	150	5.84	0.10	0.00	0.69	0.0	2.3
7: AMQ-ENV-109	1.51	150	5.62	0.10	0.00	0.92	0.0	3.0
8: AMQ-ENV-40	1.58	150	5.22	0.10	0.00	0.09	0.0	0.3
9: AMQ-ENV-20	1.50	150	6.64	0.10	0.00	0.14	0.0	0.5
10: AMQ-ENV-46	1.50	150	6.91	0.10	0.00	0.09	0.0	0.3
11: AMQ-ENV-11	1.56	150	6.78	0.10	0.00	0.08	0.0	0.3
12: AMQ-ENV-18	1.55	150	5.73	0.10	0.00	0.40	0.0	1.3
13: AMQ-ENV-53	1.49	150	7.08	0.10	0.00	0.00	0.0	0.0
14: AMQ-ENV-19	1.55	150	6.76	0.10	0.00	0.08	0.0	0.3
15: AMQ-ENV-03	1.51	150	5.41	0.10	0.00	0.50	0.0	1.6
16: AMQ-ENV-42	1.49	150	6.11	0.10	0.00	0.20	0.0	0.7
17: AMQ-ENV-49	1.51	150	11.17	0.10	0.00	0.00	0.0	0.0
18: AMQ-ENV-17	1.50	150	8.62	0.10	0.00	0.00	0.0	0.0



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Sequential NAG Test-Phase 3

LR Report :

CA15051-SEP15

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Sequential NAG Test-Phase 4

13-October-2015

Date Rec. : 03 September 2015

LR Report: CA15052-SEP15

Reference: Project Number:1520817

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		14-Sep-15	14-Sep-15	14-Sep-15	14-Sep-15	14-Sep-15	14-Sep-15	14-Sep-15	14-Sep-15
4: Analysis Approval Time		13:32	13:32	13:32	13:32	13:32	13:32	13:32	13:32
5: AMQ-ENV-14	Date:N/A	1.50	150	5.11	0.10	0.00	1.04	0.0	3.4
6: AMQ-ENV-13	Date:N/A	1.50	150	5.36	0.10	0.00	0.93	0.0	3.0
7: AMQ-ENV-109	Date:N/A	1.51	150	5.32	0.10	0.00	0.83	0.0	2.7
8: AMQ-ENV-40	Date:N/A	1.58	150	5.80	0.10	0.00	0.13	0.0	0.4
9: AMQ-ENV-20	Date:N/A	1.50	150	6.19	0.10	0.00	0.29	0.0	0.9
10: AMQ-ENV-46	Date:N/A	1.50	150	6.04	0.10	0.00	0.41	0.0	1.3
11: AMQ-ENV-11	Date:N/A	1.56	150	6.18	0.10	0.00	0.17	0.0	0.5
12: AMQ-ENV-18	Date:N/A	1.55	150	5.35	0.10	0.00	0.73	0.0	2.3
13: AMQ-ENV-53	Date:N/A	1.49	150	6.42	0.10	0.00	0.05	0.0	0.2
14: AMQ-ENV-19	Date:N/A	1.55	150	6.09	0.10	0.00	0.23	0.0	0.7
15: AMQ-ENV-03	Date:N/A	1.51	150	5.26	0.10	0.00	0.64	0.0	2.1
16: AMQ-ENV-42	Date:N/A	1.49	150	5.93	0.10	0.00	0.27	0.0	0.9
17: AMQ-ENV-49	Date:N/A	1.51	150	10.98	0.10	0.00	0.00	0.0	0.0
18: AMQ-ENV-17	Date:N/A	1.50	150	7.15	0.10	0.00	0.00	0.0	0.0



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Sequential NAG Test-Phase 4

LR Report :

CA15052-SEP15

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Sequential NAG Leachate Test-Phase 1

13-October-2015

Date Rec. : 03 September 2015

LR Report: CA15053-SEP15

Reference: Project Number:1520817

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: AMQ-ENV-14	6: AMQ-ENV-13	7: AMQ-ENV-109	8: AMQ-ENV-40	9: AMQ-ENV-20	10: AMQ-ENV-46	11: AMQ-ENV-11	12: AMQ-ENV-18	13: AMQ-ENV-53
Sample Date & Time			Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Sample weight [g]	10-Sep-15	14:53	2.5	2.5	2.5	2.5	2.6	2.5	2.5	2.5	2.5
Vol H2O2 [mL]	10-Sep-15	14:53	250	250	250	250	250	250	250	250	250
pH [no unit]	11-Sep-15	10:24	5.27	6.50	7.83	2.77	6.56	8.00	8.17	5.00	6.93
Conductivity [µS/cm]	11-Sep-15	10:24	155	122	191	1240	101	208	234	262	401
Alkalinity [mg/L as CaCO3]	11-Sep-15	10:24	< 2	5	41	< 2	6	52	39	< 2	7
Acidity [mg/L as CaCO3]	11-Sep-15	10:24	11	< 2	< 2	168	14	< 2	< 2	3	< 2
Chloride [mg/L]	11-Sep-15	15:52	2	1	2	< 1	1	2	< 1	1	< 1
Sulphate [mg/L]	11-Sep-15	09:18	59	41	34	290	48	46	66	98	170
Mercury [mg/L]	11-Sep-15	10:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Aluminum [mg/L]	15-Sep-15	08:28	0.313	0.016	0.007	7.89	0.560	0.476	0.948	0.109	0.175
Arsenic [mg/L]	11-Sep-15	16:24	0.0008	0.0048	0.0023	0.0148	0.0369	0.0646	0.0208	0.0004	0.0057
Silver [mg/L]	11-Sep-15	16:24	0.000308	0.000034	0.000020	0.000164	0.000008	0.000004	< 0.000002	0.000140	0.000007
Boron [mg/L]	11-Sep-15	16:24	0.0702	0.0282	0.196	0.0368	0.0163	0.0150	0.0174	0.0414	0.0187
Barium [mg/L]	11-Sep-15	16:24	0.0837	0.00802	0.00756	0.180	0.00436	0.00481	0.00418	0.0862	0.0107
Beryllium [mg/L]	11-Sep-15	16:24	0.000036	< 0.000007	< 0.000007	0.00142	< 0.000007	< 0.000007	< 0.000007	0.000016	< 0.000007
Bismuth [mg/L]	11-Sep-15	16:24	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Calcium [mg/L]	11-Sep-15	16:24	7.63	5.82	5.58	33.9	21.4	28.8	32.6	24.7	64.7
Cadmium [mg/L]	11-Sep-15	16:25	0.000298	0.000015	0.000025	0.000294	0.000011	0.000013	0.000016	0.000588	0.000007
Cobalt [mg/L]	11-Sep-15	16:25	0.0116	0.000279	0.000368	0.0558	0.000016	0.000017	0.000004	0.00587	0.000016



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Sequential NAG Leachate Test-Phase 1

LR Report :

CA15053-SEP15

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: AMQ-ENV-14	6: AMQ-ENV-13	7: AMQ-ENV-109	8: AMQ-ENV-40	9: AMQ-ENV-20	10: AMQ-ENV-46	11: AMQ-ENV-11	12: AMQ-ENV-18	13: AMQ-ENV-53
Chromium [mg/L]	11-Sep-15	16:25	0.00793	0.00963	0.0139	0.0024	0.0124	0.0116	0.00829	0.00622	0.0137
Copper [mg/L]	11-Sep-15	16:25	0.00347	0.00042	0.00025	0.166	0.00046	0.00038	0.00033	0.00108	0.00030
Iron [mg/L]	11-Sep-15	16:25	< 0.007	< 0.007	< 0.007	4.21	0.028	0.008	0.008	< 0.007	< 0.007
Potassium [mg/L]	11-Sep-15	16:25	14.2	12.8	9.44	30.9	20.4	14.9	19.0	19.8	16.3
Lithium [mg/L]	11-Sep-15	16:25	0.00557	0.00236	0.00754	0.0151	0.00720	0.00572	0.00700	0.00193	0.00596
Magnesium [mg/L]	11-Sep-15	16:25	4.73	4.30	3.33	7.90	0.263	0.653	0.032	5.13	2.93
Manganese [mg/L]	11-Sep-15	16:25	0.502	0.0327	0.0997	2.70	0.00139	0.00457	0.00049	0.893	0.00116
Molybdenum [mg/L]	11-Sep-15	16:26	0.0265	0.0267	0.0287	0.00052	0.0256	0.0243	0.0266	0.0286	0.0152
Sodium [mg/L]	11-Sep-15	16:26	2.55	1.37	1.92	1.21	2.17	2.01	1.30	2.00	2.68
Nickel [mg/L]	11-Sep-15	16:26	0.0895	0.0002	0.0002	0.147	< 0.0001	0.0001	< 0.0001	0.0759	0.0002
Lead [mg/L]	11-Sep-15	16:26	0.00016	0.00002	< 0.00001	0.0113	0.00005	0.00004	0.00004	0.00011	0.00002
Phosphorus [mg/L]	11-Sep-15	16:26	< 0.003	< 0.003	< 0.003	< 0.003	0.018	0.014	0.006	< 0.003	< 0.003
Sulfur [mg/L]	11-Sep-15	16:26	19.8	13.7	11.5	105	16.1	16.0	23.4	36.6	63.1
Antimony [mg/L]	11-Sep-15	16:26	0.0006	0.0010	0.0011	0.0005	0.0009	0.0008	0.0009	0.0004	0.0011
Selenium [mg/L]	11-Sep-15	16:26	0.00161	0.00128	0.00138	0.00313	0.00115	0.00092	0.00155	0.00162	0.00254
Tin [mg/L]	11-Sep-15	16:26	0.00023	0.00013	0.00019	0.00014	0.00018	0.00013	0.00017	0.00010	0.00005
Strontium [mg/L]	11-Sep-15	16:26	0.0298	0.0136	0.0181	0.0404	0.0207	0.0337	0.0331	0.0613	0.0840
Titanium [mg/L]	11-Sep-15	16:26	0.0104	0.00124	0.00101	0.00164	0.00657	0.00416	0.00401	0.00252	0.00015
Thallium [mg/L]	11-Sep-15	16:26	0.000193	0.000039	0.000069	0.000525	0.000076	0.000060	0.000042	0.000231	0.000070
Uranium [mg/L]	11-Sep-15	16:27	0.000240	0.000190	0.000208	0.00362	0.000314	0.000460	0.000326	0.000087	0.000074
Vanadium [mg/L]	11-Sep-15	16:27	0.0271	0.0175	0.0211	0.00013	0.0246	0.0159	0.0156	0.0190	0.00636
Zinc [mg/L]	11-Sep-15	16:27	0.014	< 0.002	< 0.002	0.163	< 0.002	< 0.002	< 0.002	0.007	< 0.002

Analysis	14: AMQ-ENV-19	15: AMQ-ENV-03	16: AMQ-ENV-42	17: AMQ-ENV-49	18: AMQ-ENV-17
Sample Date & Time	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Sample weight [g]	2.5	2.5	2.5	2.6	2.5
Vol H2O2 [mL]	250	250	250	250	250
pH [no unit]	7.23	3.78	8.15	7.62	10.2
Conductivity [µS/cm]	164	260	214	374	138
Alkalinity [mg/L as CaCO3]	10	< 2	58	15	58
Acidity [mg/L as CaCO3]	< 2	40	< 2	< 2	< 2
Chloride [mg/L]	1	2	< 1	< 1	2
Sulphate [mg/L]	55	85	47	140	4



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Sequential NAG Leachate Test-Phase 1

LR Report :

CA15053-SEP15

Analysis	14: AMQ-ENV-19	15: AMQ-ENV-03	16: AMQ-ENV-42	17: AMQ-ENV-49	18: AMQ-ENV-17
Mercury [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Aluminum [mg/L]	0.099	3.96	0.566	0.594	0.156
Arsenic [mg/L]	0.0171	0.0006	0.0355	0.154	0.0232
Silver [mg/L]	0.000005	0.000257	0.000008	0.000007	0.000003
Boron [mg/L]	0.0650	0.0581	0.0129	0.0152	0.0693
Barium [mg/L]	0.00421	0.144	0.00382	0.00625	0.00569
Beryllium [mg/L]	< 0.000007	0.000604	< 0.000007	< 0.000007	< 0.000007
Bismuth [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Calcium [mg/L]	16.2	9.62	31.7	50.1	17.7
Cadmium [mg/L]	0.000019	0.000352	0.000015	0.000004	< 0.000003
Cobalt [mg/L]	0.000062	0.0684	0.000014	0.000012	0.000012
Chromium [mg/L]	0.0179	0.00779	0.00947	0.253	0.230
Copper [mg/L]	0.00028	0.0460	0.00065	0.00036	0.00019
Iron [mg/L]	0.009	0.068	< 0.007	< 0.007	< 0.007
Potassium [mg/L]	14.0	11.6	15.6	31.0	16.8
Lithium [mg/L]	0.00649	0.0110	0.00445	0.00149	< 0.000006
Magnesium [mg/L]	2.04	4.93	0.101	0.048	0.013
Manganese [mg/L]	0.00177	1.43	0.00148	0.00061	0.00020
Molybdenum [mg/L]	0.0265	0.0188	0.0221	0.00144	0.00086
Sodium [mg/L]	1.88	2.19	1.93	4.67	1.01
Nickel [mg/L]	0.0002	0.176	0.0001	0.0002	0.0001
Lead [mg/L]	0.00002	0.00135	0.00004	< 0.00001	< 0.00001
Phosphorus [mg/L]	< 0.003	< 0.003	0.010	< 0.003	< 0.003
Sulfur [mg/L]	19.2	31.3	16.6	52.1	2.3
Antimony [mg/L]	0.0011	0.0004	0.0010	0.0082	0.0008
Selenium [mg/L]	0.00159	0.00107	0.00114	0.00241	0.00022
Tin [mg/L]	0.00012	0.00032	0.00011	0.00007	0.00028
Strontium [mg/L]	0.0210	0.0323	0.0697	0.0898	0.0624
Titanium [mg/L]	0.00127	0.148	0.00417	0.00016	0.00013
Thallium [mg/L]	0.000047	0.000244	0.000086	0.000032	0.000014
Uranium [mg/L]	0.000229	0.000371	0.000297	0.000023	0.000044
Vanadium [mg/L]	0.0212	0.0230	0.0213	0.0221	0.0277
Zinc [mg/L]	< 0.002	0.142	< 0.002	< 0.002	< 0.002



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LR Report :

CA15053-SEP15

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Sequential NAG Leachate Test-Phase 2

13-October-2015

Date Rec. : 03 September 2015

LR Report: CA15054-SEP15

Reference: Project Number:1520817

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: AMQ-ENV-14	6: AMQ-ENV-13	7: AMQ-ENV-109	8: AMQ-ENV-40	9: AMQ-ENV-20	10: AMQ-ENV-46	11: AMQ-ENV-11	12: AMQ-ENV-18	13: AMQ-ENV-53
Sample Date & Time			Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Sample weight [g]	10-Sep-15	12:09	2.5	2.5	2.5	2.5	2.6	2.5	2.5	2.5	2.5
Vol H2O2 [mL]	10-Sep-15	12:09	250	250	250	250	250	250	250	250	250
pH [no unit]	14-Sep-15	14:21	5.86	6.85	6.65	3.79	7.14	7.20	6.74	5.58	6.43
Conductivity [µS/cm]	14-Sep-15	14:21	16	19	17	107	50	48	72	22	66
Alkalinity [mg/L as CaCO3]	14-Sep-15	14:21	2	7	5	< 2	8	20	5	< 2	3
Acidity [mg/L as CaCO3]	14-Sep-15	14:21	103	6	11	61	< 2	20	2	11	< 2
Chloride [mg/L]	14-Sep-15	08:25	8	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sulphate [mg/L]	14-Sep-15	08:25	2	1	1	22	10	7	21	5	21
Mercury [mg/L]	14-Sep-15	08:06	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Aluminum [mg/L]	15-Sep-15	09:40	0.065	0.050	0.023	0.366	0.041	0.036	0.018	0.007	0.017
Arsenic [mg/L]	15-Sep-15	09:40	0.0052	0.0071	0.0025	< 0.0002	0.0148	0.0279	0.0023	0.0005	0.0038
Silver [mg/L]	15-Sep-15	09:40	0.000029	0.000006	0.000007	0.000047	0.000004	0.000004	0.000010	0.000014	0.000005
Boron [mg/L]	15-Sep-15	09:40	0.0331	0.0149	0.0145	0.0144	0.0124	0.0126	0.0147	0.0263	0.0111
Barium [mg/L]	15-Sep-15	09:40	0.00192	0.00135	0.00091	0.0284	0.00176	0.00195	0.00351	0.00193	0.00218
Beryllium [mg/L]	15-Sep-15	09:40	< 0.000007	< 0.000007	< 0.000007	0.000058	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth [mg/L]	15-Sep-15	09:40	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Calcium [mg/L]	15-Sep-15	09:40	0.91	0.69	0.98	3.60	3.85	4.73	6.88	1.48	7.15
Cadmium [mg/L]	15-Sep-15	09:40	0.000015	0.000012	< 0.000003	0.000018	< 0.000003	0.000003	0.000004	0.000010	0.000007
Cobalt [mg/L]	15-Sep-15	09:40	0.000162	0.000084	0.000046	0.0131	0.000034	0.000023	0.000075	0.000210	0.000040



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Sequential NAG Leachate Test-Phase 2

LR Report :

CA15054-SEP15

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: AMQ-ENV-14	6: AMQ-ENV-13	7: AMQ-ENV-109	8: AMQ-ENV-40	9: AMQ-ENV-20	10: AMQ-ENV-46	11: AMQ-ENV-11	12: AMQ-ENV-18	13: AMQ-ENV-53
Chromium [mg/L]	15-Sep-15	09:40	0.00865	0.00305	0.00472	0.00620	0.00588	0.00647	0.00343	0.0116	0.0172
Copper [mg/L]	15-Sep-15	09:40	0.00106	0.00057	0.00040	0.00114	0.00072	0.00054	0.00047	0.00046	0.00070
Iron [mg/L]	15-Sep-15	09:39	0.049	0.045	0.012	0.016	0.008	< 0.007	< 0.007	< 0.007	< 0.007
Potassium [mg/L]	15-Sep-15	09:39	2.18	3.50	1.87	1.82	6.73	4.41	6.19	2.35	2.95
Lithium [mg/L]	15-Sep-15	09:39	0.000181	0.000252	0.000702	0.00199	0.000275	0.000177	0.000609	0.000041	0.000292
Magnesium [mg/L]	15-Sep-15	09:39	0.254	0.593	0.528	1.12	0.624	0.961	0.657	0.313	1.21
Manganese [mg/L]	15-Sep-15	09:39	0.0420	0.0172	0.0279	0.235	0.00244	0.00633	0.00760	0.0369	0.00295
Molybdenum [mg/L]	15-Sep-15	09:39	0.00201	0.00076	0.00072	0.00586	0.00073	0.00076	0.00113	0.00100	0.00261
Sodium [mg/L]	15-Sep-15	09:39	0.28	0.31	0.40	0.09	0.66	0.65	0.45	0.25	0.54
Nickel [mg/L]	15-Sep-15	09:39	0.0004	0.0002	< 0.0001	0.0092	0.0001	< 0.0001	0.0001	0.0003	< 0.0001
Lead [mg/L]	15-Sep-15	09:39	0.00016	0.00009	0.00003	0.00064	0.00004	0.00002	0.00004	0.00001	0.00001
Phosphorus [mg/L]	15-Sep-15	09:39	0.006	0.008	0.006	< 0.003	0.006	0.008	< 0.003	< 0.003	< 0.003
Sulfur [mg/L]	15-Sep-15	09:39	0.3	< 0.1	< 0.1	8.0	2.9	1.6	6.7	1.3	6.5
Antimony [mg/L]	15-Sep-15	09:39	0.0010	0.0008	0.0008	0.0006	0.0008	0.0006	0.0010	0.0005	0.0010
Selenium [mg/L]	15-Sep-15	09:39	0.00011	< 0.00004	< 0.00004	0.00040	0.00024	0.00013	0.00040	0.00009	0.00030
Tin [mg/L]	15-Sep-15	09:39	0.00087	0.00056	0.00030	0.00022	0.00017	0.00013	0.00014	0.00010	0.00008
Strontium [mg/L]	15-Sep-15	09:39	0.00126	0.00208	0.00314	0.00784	0.00580	0.00889	0.0128	0.00243	0.0137
Titanium [mg/L]	15-Sep-15	09:39	0.0613	0.00866	0.00456	0.00139	0.00186	0.00160	0.00083	0.00258	0.00019
Thallium [mg/L]	15-Sep-15	09:39	0.000033	0.000015	0.000015	0.000059	0.000031	0.000029	0.000055	0.000024	0.000023
Uranium [mg/L]	15-Sep-15	09:39	0.000804	0.000358	0.000226	0.000016	0.000177	0.000312	0.000094	0.000041	0.000034
Vanadium [mg/L]	15-Sep-15	09:39	0.00905	0.00466	0.00552	0.00952	0.0106	0.00668	0.00545	0.00885	0.00494
Zinc [mg/L]	15-Sep-15	09:39	< 0.002	< 0.002	< 0.002	0.009	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	14: AMQ-ENV-19	15: AMQ-ENV-03	16: AMQ-ENV-42	17: AMQ-ENV-49	18: AMQ-ENV-17
Sample Date & Time	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Sample weight [g]	2.5	2.5	2.5	2.6	2.5
Vol H2O2 [mL]	250	250	250	250	250
pH [no unit]	7.04	5.29	6.70	11.0	9.71
Conductivity [µS/cm]	27	28	61	308	92
Alkalinity [mg/L as CaCO3]	9	< 2	4	131	44
Acidity [mg/L as CaCO3]	< 2	137	7	< 2	< 2
Chloride [mg/L]	< 1	< 10	< 1	1	2
Sulphate [mg/L]	2	7	18	12	3



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Sequential NAG Leachate Test-Phase 2

LR Report :

CA15054-SEP15

Analysis	14: AMQ-ENV-19	15: AMQ-ENV-03	16: AMQ-ENV-42	17: AMQ-ENV-49	18: AMQ-ENV-17
Mercury [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Aluminum [mg/L]	0.053	0.056	0.011	1.71	0.119
Arsenic [mg/L]	0.0115	0.0010	0.0038	0.0042	0.0303
Silver [mg/L]	0.000003	0.000013	0.000005	0.000002	0.000002
Boron [mg/L]	0.0138	0.0249	0.0103	0.0424	0.154
Barium [mg/L]	0.00081	0.00166	0.00259	0.00231	0.00337
Beryllium [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Calcium [mg/L]	2.09	2.59	6.25	55.4	18.4
Cadmium [mg/L]	< 0.000003	0.000007	< 0.000003	< 0.000003	< 0.000003
Cobalt [mg/L]	0.000022	0.000572	0.000078	< 0.000004	0.000010
Chromium [mg/L]	0.00686	0.00758	0.00402	0.0710	0.0576
Copper [mg/L]	0.00050	0.00089	0.00042	0.00066	0.00029
Iron [mg/L]	< 0.007	0.012	< 0.007	< 0.007	< 0.007
Potassium [mg/L]	3.17	1.28	4.24	6.34	2.33
Lithium [mg/L]	0.000469	0.000452	0.000333	0.000248	0.000246
Magnesium [mg/L]	0.592	0.351	0.819	0.005	0.016
Manganese [mg/L]	0.00156	0.254	0.00920	0.00012	0.00021
Molybdenum [mg/L]	0.00058	0.00058	0.00060	0.00030	0.00019
Sodium [mg/L]	0.49	0.22	0.59	0.42	0.20
Nickel [mg/L]	< 0.0001	0.0013	0.0002	0.0001	0.0001
Lead [mg/L]	0.00008	0.00004	0.00003	0.00018	0.00001
Phosphorus [mg/L]	0.013	0.006	< 0.003	< 0.003	0.003
Sulfur [mg/L]	< 0.1	2.3	5.2	3.2	< 0.1
Antimony [mg/L]	0.0009	0.0006	0.0010	0.0019	0.0007
Selenium [mg/L]	0.00005	0.00010	0.00036	0.00016	0.00011
Tin [mg/L]	0.00011	0.00026	0.00015	0.00024	0.00037
Strontium [mg/L]	0.00372	0.00168	0.0230	0.0774	0.0405
Titanium [mg/L]	0.00104	0.0520	0.00102	0.00008	0.00017
Thallium [mg/L]	0.000018	0.000025	0.000052	0.000018	< 0.000005
Uranium [mg/L]	0.000172	0.000279	0.000106	0.000004	0.000005
Vanadium [mg/L]	0.00656	0.00704	0.00779	0.00867	0.0234
Zinc [mg/L]	< 0.002	0.002	< 0.002	< 0.002	< 0.002



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LR Report :

CA15054-SEP15

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Sequential NAG Leachate Test-Phase 3

13-October-2015

Date Rec. : 03 September 2015

LR Report: CA15055-SEP15

Reference: Project Number:1520817

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: AMQ-ENV-14	6: AMQ-ENV-13	7: AMQ-ENV-109	8: AMQ-ENV-40	9: AMQ-ENV-20	10: AMQ-ENV-46	11: AMQ-ENV-11	12: AMQ-ENV-18	13: AMQ-ENV-53
Sample Date & Time			Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Sample weight [g]	11-Sep-15	10:19	2.5	2.5	2.5	2.5	2.6	2.5	2.5	2.5	2.5
Vol H2O2 [mL]	11-Sep-15	10:19	250	250	250	250	250	250	250	250	250
pH [no unit]	15-Sep-15	10:23	5.48	6.58	6.39	4.59	6.96	6.97	6.76	5.92	6.74
Conductivity [µS/cm]	15-Sep-15	10:23	12	14	13	30	25	19	18	11	16
Alkalinity [mg/L as CaCO3]	15-Sep-15	10:23	2	5	5	< 2	10	7	6	3	4
Acidity [mg/L as CaCO3]	15-Sep-15	10:23	254	32	68	14	44	15	15	66	< 2
Chloride [mg/L]	16-Sep-15	13:02	< 1	2	3	2	5	3	3	< 1	< 1
Sulphate [mg/L]	16-Sep-15	08:41	2	1	1	7	2	1	1	1	2
Mercury [mg/L]	15-Sep-15	08:26	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001
Aluminum [mg/L]	15-Sep-15	14:18	0.105	0.103	0.016	0.079	0.037	0.028	0.025	0.040	0.017
Arsenic [mg/L]	15-Sep-15	14:18	0.0105	0.0087	0.0029	< 0.0002	0.0089	0.0190	0.0023	0.0035	0.0042
Silver [mg/L]	15-Sep-15	14:18	0.000024	0.000005	0.000007	0.000012	0.000005	0.000003	0.000011	0.000006	0.000004
Boron [mg/L]	15-Sep-15	14:18	0.0351	0.0187	0.0117	0.0148	0.0119	0.0193	0.0130	0.0254	0.0099
Barium [mg/L]	15-Sep-15	14:18	0.00201	0.00194	0.00105	0.00447	0.00158	0.00112	0.00143	0.00111	0.00054
Beryllium [mg/L]	15-Sep-15	14:17	< 0.000007	< 0.000007	< 0.000007	0.000014	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth [mg/L]	15-Sep-15	14:17	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Calcium [mg/L]	15-Sep-15	14:17	0.77	0.66	1.11	1.51	1.95	1.80	1.70	0.80	1.57
Cadmium [mg/L]	15-Sep-15	14:17	0.000007	0.000003	0.000009	0.000004	0.000005	0.000005	0.000008	0.000005	< 0.000003
Cobalt [mg/L]	15-Sep-15	14:17	0.000169	0.000143	0.000032	0.000959	0.000038	0.000027	0.000040	0.000065	0.000019



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Sequential NAG Leachate Test-Phase 3

LR Report : CA15055-SEP15

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: AMQ-ENV-14	6: AMQ-ENV-13	7: AMQ-ENV-109	8: AMQ-ENV-40	9: AMQ-ENV-20	10: AMQ-ENV-46	11: AMQ-ENV-11	12: AMQ-ENV-18	13: AMQ-ENV-53
Chromium [mg/L]	15-Sep-15	14:17	0.00336	0.00237	0.00295	0.00362	0.00335	0.00449	0.00256	0.00652	0.00752
Copper [mg/L]	15-Sep-15	14:17	0.00058	0.00073	0.00336	0.00050	0.00056	0.00041	0.00032	0.00063	0.00045
Iron [mg/L]	15-Sep-15	14:17	0.084	0.119	0.011	< 0.007	0.022	0.013	0.016	0.041	< 0.007
Potassium [mg/L]	15-Sep-15	14:17	1.68	2.49	1.34	0.588	3.51	1.84	2.33	1.75	0.986
Lithium [mg/L]	15-Sep-15	14:17	0.000213	0.000178	0.000418	0.00102	0.000102	0.000061	0.000085	0.000044	0.000047
Magnesium [mg/L]	15-Sep-15	14:17	0.206	0.513	0.442	0.483	0.560	0.547	0.315	0.188	0.402
Manganese [mg/L]	15-Sep-15	14:17	0.0326	0.0409	0.0804	0.100	0.0111	0.00810	0.0129	0.0209	0.00388
Molybdenum [mg/L]	15-Sep-15	14:17	0.00109	0.00034	0.00034	0.00075	0.00029	0.00028	0.00031	0.00030	0.00070
Sodium [mg/L]	15-Sep-15	14:17	0.20	0.22	0.25	0.06	0.40	0.45	0.25	0.16	0.29
Nickel [mg/L]	15-Sep-15	14:17	0.0003	0.0003	0.0001	0.0012	0.0002	0.0001	0.0002	0.0002	< 0.0001
Lead [mg/L]	15-Sep-15	14:17	0.00021	0.00023	0.00020	0.00003	0.00003	0.00004	0.00007	0.00008	0.00002
Phosphorus [mg/L]	15-Sep-15	14:17	0.034	0.021	0.010	0.003	0.013	0.017	0.008	0.009	0.005
Sulfur [mg/L]	15-Sep-15	14:17	0.4	< 0.1	0.2	2.9	0.3	< 0.1	0.2	0.1	0.2
Antimony [mg/L]	15-Sep-15	14:17	0.0011	0.0007	0.0006	0.0005	0.0007	0.0006	0.0009	0.0006	0.0010
Selenium [mg/L]	15-Sep-15	14:17	< 0.00004	< 0.00004	< 0.00004	0.00019	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Tin [mg/L]	15-Sep-15	14:17	0.00152	0.00131	0.00083	0.00023	0.00024	0.00034	0.00033	0.00061	0.00020
Strontium [mg/L]	15-Sep-15	14:17	0.00118	0.00212	0.00383	0.00371	0.00461	0.00456	0.00434	0.00125	0.00422
Titanium [mg/L]	15-Sep-15	14:17	0.234	0.0316	0.0182	0.00043	0.00578	0.00423	0.00252	0.0205	0.00033
Thallium [mg/L]	15-Sep-15	14:17	0.000037	0.000018	0.000022	0.000021	0.000035	0.000019	0.000025	0.000019	0.000006
Uranium [mg/L]	15-Sep-15	14:17	0.00138	0.000850	0.000585	0.000006	0.000267	0.000323	0.000104	0.000422	0.000016
Vanadium [mg/L]	15-Sep-15	14:17	0.00346	0.00301	0.00259	0.00238	0.00532	0.00386	0.00350	0.00721	0.00247
Zinc [mg/L]	15-Sep-15	14:17	< 0.002	< 0.002	0.004	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	14: AMQ-ENV-19	15: AMQ-ENV-03	16: AMQ-ENV-42	17: AMQ-ENV-49	18: AMQ-ENV-17
Sample Date & Time	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Sample weight [g]	2.5	2.5	2.5	2.6	2.5
Vol H2O2 [mL]	250	250	250	250	250
pH [no unit]	6.95	5.55	6.54	11.2	8.44
Conductivity [µS/cm]	19	9	20	356	142
Alkalinity [mg/L as CaCO3]	8	2	5	113	78
Acidity [mg/L as CaCO3]	20	148	23	< 2	< 2
Chloride [mg/L]	< 1	< 1	< 1	< 1	1
Sulphate [mg/L]	1	2	3	4	2



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Sequential NAG Leachate Test-Phase 3

LR Report :

CA15055-SEP15

Analysis	14: AMQ-ENV-19	15: AMQ-ENV-03	16: AMQ-ENV-42	17: AMQ-ENV-49	18: AMQ-ENV-17
Mercury [mg/L]	< 0.00001	< 0.00001	0.00001	0.00002	< 0.00001
Aluminum [mg/L]	0.025	0.112	0.012	1.07	0.012
Arsenic [mg/L]	0.0039	0.0030	0.0040	0.0107	0.104
Silver [mg/L]	0.000005	0.000004	0.000006	0.000003	< 0.000002
Boron [mg/L]	0.0103	0.0278	0.0101	0.200	0.0591
Barium [mg/L]	0.00091	0.00115	0.00128	0.00101	0.00844
Beryllium [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Calcium [mg/L]	1.56	0.83	1.91	46.7	28.9
Cadmium [mg/L]	0.000008	< 0.000003	0.000005	< 0.000003	< 0.000003
Cobalt [mg/L]	0.000030	0.000097	0.000034	< 0.000004	0.000029
Chromium [mg/L]	0.00367	0.00547	0.00286	0.0513	0.0290
Copper [mg/L]	0.00041	0.00073	0.00043	0.00018	0.00096
Iron [mg/L]	0.012	0.111	0.009	< 0.007	< 0.007
Potassium [mg/L]	1.86	0.726	1.71	3.06	0.977
Lithium [mg/L]	0.000192	0.000151	0.000062	0.000263	0.00236
Magnesium [mg/L]	0.646	0.152	0.438	0.005	1.22
Manganese [mg/L]	0.00688	0.0680	0.0189	0.00013	0.00814
Molybdenum [mg/L]	0.00026	0.00027	0.00026	0.00016	0.00023
Sodium [mg/L]	0.33	0.15	0.33	0.27	0.08
Nickel [mg/L]	0.0001	0.0002	0.0002	< 0.0001	0.0003
Lead [mg/L]	0.00007	0.00008	0.00002	0.00002	0.00003
Phosphorus [mg/L]	0.014	0.023	0.006	< 0.003	0.030
Sulfur [mg/L]	0.2	0.2	0.9	1.2	0.3
Antimony [mg/L]	0.0007	0.0006	0.0009	0.0022	0.0005
Selenium [mg/L]	< 0.00004	< 0.00004	0.00006	0.00007	0.00009
Tin [mg/L]	0.00024	0.00147	0.00027	0.00019	0.00018
Strontium [mg/L]	0.00389	0.00098	0.0100	0.0555	0.0504
Titanium [mg/L]	0.00285	0.144	0.00438	0.00016	0.00031
Thallium [mg/L]	0.000021	0.000012	0.000033	0.000011	0.000017
Uranium [mg/L]	0.000209	0.000468	0.000205	0.000004	0.000007
Vanadium [mg/L]	0.00354	0.00370	0.00478	0.0176	0.00661
Zinc [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002



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LR Report :

CA15055-SEP15

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Sequential NAG Leachate Test-Phase 4

13-October-2015

Date Rec. : 03 September 2015

LR Report: CA15056-SEP15

Reference: Project Number:1520817

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: AMQ-ENV-14	6: AMQ-ENV-13	7: AMQ-ENV-109	8: AMQ-ENV-40	9: AMQ-ENV-20	10: AMQ-ENV-46	11: AMQ-ENV-11	12: AMQ-ENV-18	13: AMQ-ENV-53
Sample Date & Time			Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Sample weight [g]	14-Sep-15	11:21	2.5	2.5	2.5	2.5	2.6	2.5	2.5	2.5	2.5
Vol H2O2 [mL]	14-Sep-15	11:21	250	250	250	250	250	250	250	250	250
pH [no unit]	16-Sep-15	10:33	5.19	6.00	5.73	4.69	6.58	6.55	6.36	5.53	6.45
Conductivity [µS/cm]	16-Sep-15	10:33	10	13	13	20	16	15	13	12	14
Alkalinity [mg/L as CaCO3]	16-Sep-15	10:33	2	4	4	< 2	5	5	3	2	4
Acidity [mg/L as CaCO3]	16-Sep-15	10:33	303	181	328	6	28	41	53	154	3
Chloride [mg/L]	17-Sep-15	13:25	< 10	12	17	< 1	1	3	2	< 10	< 1
Sulphate [mg/L]	16-Sep-15	08:41	2	1	1	4	1	1	1	1	1
Mercury [mg/L]	15-Sep-15	12:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Aluminum [mg/L]	16-Sep-15	12:10	0.121	0.066	0.019	0.031	0.071	0.041	0.049	0.069	0.009
Arsenic [mg/L]	16-Sep-15	12:10	0.0111	0.0143	0.0052	0.0007	0.0096	0.0209	0.0040	0.0063	0.0013
Silver [mg/L]	16-Sep-15	12:10	0.000159	0.000010	0.000014	0.000006	0.000008	0.000006	0.000014	0.000012	0.000004
Boron [mg/L]	16-Sep-15	12:10	0.0235	0.0130	0.0063	0.0179	0.0181	0.0211	0.0126	0.0198	0.0077
Barium [mg/L]	16-Sep-15	12:10	0.00244	0.00221	0.00168	0.00193	0.00178	0.00166	0.00186	0.00165	0.00075
Beryllium [mg/L]	16-Sep-15	12:10	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth [mg/L]	16-Sep-15	12:10	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Calcium [mg/L]	16-Sep-15	12:10	0.93	0.87	1.24	1.04	1.25	1.41	1.37	0.94	1.48
Cadmium [mg/L]	16-Sep-15	12:10	0.000006	0.000010	0.000021	< 0.000003	< 0.000003	0.000003	0.000004	0.000003	0.000005
Cobalt [mg/L]	16-Sep-15	12:10	0.000227	0.000122	0.000046	0.000311	0.000087	0.000046	0.000074	0.000109	0.000030



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Sequential NAG Leachate Test-Phase 4

LR Report : CA15056-SEP15

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: AMQ-ENV-14	6: AMQ-ENV-13	7: AMQ-ENV-109	8: AMQ-ENV-40	9: AMQ-ENV-20	10: AMQ-ENV-46	11: AMQ-ENV-11	12: AMQ-ENV-18	13: AMQ-ENV-53
Chromium [mg/L]	16-Sep-15	12:10	0.00246	0.00219	0.00231	0.00119	0.00346	0.00297	0.00232	0.00272	0.00561
Copper [mg/L]	16-Sep-15	12:10	0.00095	0.00046	0.00019	0.00034	0.00041	0.00078	0.00099	0.00047	0.00028
Iron [mg/L]	16-Sep-15	12:10	0.084	0.074	0.016	< 0.007	0.055	0.026	0.034	0.062	< 0.007
Potassium [mg/L]	16-Sep-15	12:10	1.24	2.15	0.957	0.360	2.28	1.36	1.64	1.56	0.869
Lithium [mg/L]	16-Sep-15	12:10	0.000227	0.000128	0.000345	0.000666	0.000040	0.000022	0.000035	0.000032	< 0.000006
Magnesium [mg/L]	16-Sep-15	12:10	0.200	0.497	0.322	0.347	0.416	0.473	0.296	0.207	0.408
Manganese [mg/L]	16-Sep-15	12:10	0.0319	0.0919	0.129	0.0778	0.0126	0.0195	0.0274	0.0273	0.0312
Molybdenum [mg/L]	16-Sep-15	12:10	0.00548	0.00127	0.00101	0.00050	0.00047	0.00055	0.00037	0.00045	0.00032
Sodium [mg/L]	16-Sep-15	12:10	0.17	0.16	0.17	0.07	0.35	0.33	0.19	0.14	0.23
Nickel [mg/L]	16-Sep-15	12:10	0.0004	0.0002	0.0001	0.0006	0.0002	0.0001	0.0002	0.0002	< 0.0001
Lead [mg/L]	16-Sep-15	12:10	0.00026	0.00015	0.00003	0.00002	0.00006	0.00007	0.00019	0.00008	< 0.00001
Phosphorus [mg/L]	16-Sep-15	12:10	0.045	0.040	0.016	< 0.003	0.015	0.020	0.010	0.017	< 0.003
Sulfur [mg/L]	16-Sep-15	12:10	4.0	3.7	3.7	4.7	3.0	2.9	3.1	3.4	2.9
Antimony [mg/L]	16-Sep-15	12:10	0.0010	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0004	0.0006
Selenium [mg/L]	16-Sep-15	12:10	0.00006	< 0.00004	< 0.00004	0.00015	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Tin [mg/L]	16-Sep-15	12:11	0.00220	0.00127	0.00039	0.00038	0.00073	0.00057	0.00074	0.00105	0.00022
Strontium [mg/L]	16-Sep-15	12:10	0.00131	0.00264	0.00437	0.00269	0.00332	0.00398	0.00379	0.00144	0.00490
Titanium [mg/L]	16-Sep-15	12:10	0.354	0.0991	0.0364	0.00073	0.0152	0.0188	0.0103	0.0537	0.00082
Thallium [mg/L]	16-Sep-15	12:10	0.000037	0.000026	0.000023	0.000011	0.000024	0.000018	0.000023	0.000021	0.000011
Uranium [mg/L]	16-Sep-15	12:10	0.00168	0.00170	0.00110	0.000060	0.000324	0.000653	0.000276	0.000745	0.000043
Vanadium [mg/L]	16-Sep-15	12:10	0.00266	0.00250	0.00194	0.00083	0.00533	0.00291	0.00276	0.00307	0.00133
Zinc [mg/L]	16-Sep-15	12:10	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	14: AMQ-ENV-19	15: AMQ-ENV-03	16: AMQ-ENV-42	17: AMQ-ENV-49	18: AMQ-ENV-17
Sample Date & Time	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Sample weight [g]	2.5	2.5	2.5	2.6	2.5
Vol H2O2 [mL]	250	250	250	250	250
pH [no unit]	6.52	5.14	6.39	10.3	7.40
Conductivity [µS/cm]	14	9	13	152	41
Alkalinity [mg/L as CaCO3]	4	2	4	75	17
Acidity [mg/L as CaCO3]	24	269	21	< 2	< 2
Chloride [mg/L]	3	8	4	< 1	2
Sulphate [mg/L]	1	2	1	3	2



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Sequential NAG Leachate Test-Phase 4

LR Report :

CA15056-SEP15

Analysis	14: AMQ-ENV-19	15: AMQ-ENV-03	16: AMQ-ENV-42	17: AMQ-ENV-49	18: AMQ-ENV-17
Mercury [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Aluminum [mg/L]	0.048	0.096	0.059	0.803	0.019
Arsenic [mg/L]	0.0037	0.0046	0.0079	0.0228	0.287
Silver [mg/L]	0.000007	0.000007	0.000007	0.000003	0.000002
Boron [mg/L]	0.0116	0.0210	0.0115	0.568	0.0679
Barium [mg/L]	0.00112	0.00120	0.00133	0.00032	0.00426
Beryllium [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Calcium [mg/L]	1.21	0.93	1.34	32.0	5.14
Cadmium [mg/L]	0.000021	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Cobalt [mg/L]	0.000068	0.000111	0.000090	< 0.000004	0.000210
Chromium [mg/L]	0.00331	0.00258	0.00273	0.0399	0.0456
Copper [mg/L]	0.00050	0.00077	0.00046	0.00063	0.00707
Iron [mg/L]	0.032	0.098	0.047	< 0.007	0.026
Potassium [mg/L]	1.18	0.660	1.09	1.93	0.594
Lithium [mg/L]	0.000075	0.000123	0.000025	0.000162	0.00195
Magnesium [mg/L]	0.484	0.150	0.338	0.003	2.06
Manganese [mg/L]	0.0108	0.0620	0.0190	0.00010	0.00404
Molybdenum [mg/L]	0.00028	0.00038	0.00025	0.00014	0.00025
Sodium [mg/L]	0.25	0.12	0.28	0.44	0.11
Nickel [mg/L]	0.0001	0.0002	0.0002	< 0.0001	0.0010
Lead [mg/L]	0.00006	0.00006	0.00009	< 0.00001	0.00003
Phosphorus [mg/L]	0.012	0.043	0.014	< 0.003	0.098
Sulfur [mg/L]	2.7	3.2	2.9	3.6	3.4
Antimony [mg/L]	0.0005	0.0004	0.0005	0.0018	0.0006
Selenium [mg/L]	< 0.00004	< 0.00004	< 0.00004	0.00005	0.00020
Tin [mg/L]	0.00053	0.00198	0.00086	0.00025	0.00095
Strontium [mg/L]	0.00323	0.00090	0.00648	0.0342	0.0130
Titanium [mg/L]	0.0118	0.284	0.0175	0.00034	0.00071
Thallium [mg/L]	0.000015	0.000016	0.000017	0.000005	0.000007
Uranium [mg/L]	0.000259	0.000700	0.000382	0.000010	0.000013
Vanadium [mg/L]	0.00308	0.00223	0.00435	0.02686	0.00372
Zinc [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	0.002



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LR Report :

CA15056-SEP15

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22-September-2015

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Date Rec. : 09 September 2015
LR Report: CA15122-SEP15
Reference: PO 460193

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	5: WTN-1	6: WTN-2	7: WTN-3	8: WTN-4	9: WTN-5
Sample Date & Time	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
SiO2 [%]	47.9	54.6	57.4	55.2	51.4
Al2O3 [%]	8.48	9.91	10.8	10.2	9.35
Fe2O3 [%]	19.4	11.2	8.93	11.3	14.5
MgO [%]	1.62	1.91	2.05	1.99	1.82
CaO [%]	0.66	0.78	0.85	0.78	0.71
Na2O [%]	1.00	1.20	1.34	1.19	1.10
K2O [%]	1.94	2.28	2.47	2.31	2.14
TiO2 [%]	0.31	0.36	0.40	0.36	0.34
P2O5 [%]	0.70	0.46	0.48	0.49	0.59
MnO [%]	0.15	0.18	0.06	0.10	0.13
Cr2O3 [%]	0.02	0.04	0.03	0.03	0.03
V2O5 [%]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
LOI [%]	16.4	17.2	13.9	15.5	16.9
Sum [%]	98.6	100.1	98.7	99.3	99.0



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13-October-2015

Date Rec. : 09 September 2015

LR Report: CA15123-SEP15

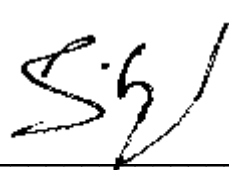
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Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Fluoride µg/g
3: Analysis Approval Date	18-Sep-15
4: Analysis Approval Time	15:30
5: WTN-1	14.4
6: WTN-2	18.0
7: WTN-3	24.8
8: WTN-4	16.6
9: WTN-5	15.9



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26-November-2015

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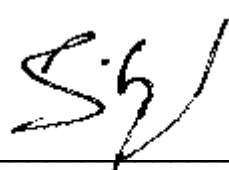
Date Rec. : 17 November 2015
LR Report: CA15257-NOV15
Reference: Whole Rock Analysis

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	5: Large Column #1 Ultramafic (Oa)	6: Large Column #2 Ultramafic (Oa_alt)	7: Large Column #3 Greywacke (Inside Ore)	8: Large Column #4 Greywacke (Outside Ore)	9: Large Column #5 Ultramafic (Ob)	10: Large Column #6 Greywacke (S10e)
Sample Date & Time	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
SiO2 [%]	42.6	42.4	66.0	60.2	48.0	65.6
Al2O3 [%]	6.68	8.51	13.6	14.2	8.18	7.20
Fe2O3 [%]	11.7	15.3	7.69	6.88	9.48	14.8
MgO [%]	21.8	16.1	1.91	5.64	15.6	2.34
CaO [%]	5.56	6.23	1.58	2.69	6.33	1.66
Na2O [%]	0.10	0.82	2.16	2.39	1.05	0.52
K2O [%]	0.37	0.86	3.06	3.25	1.98	1.87
TiO2 [%]	0.34	0.39	0.41	0.52	0.45	0.22
P2O5 [%]	0.03	0.04	0.16	0.19	0.20	0.11
MnO [%]	0.26	0.49	0.12	0.11	0.17	0.27
Cr2O3 [%]	0.33	0.31	< 0.01	0.06	0.19	0.04
V2O5 [%]	0.02	0.03	< 0.01	0.02	0.01	< 0.01
LOI [%]	9.10	7.10	2.71	2.70	7.34	3.48
Sum [%]	99.0	98.5	99.4	98.8	99.0	98.2



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11-December-2015

Date Rec. : 17 November 2015

LR Report: CA15258-NOV15

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: Large Column #1 Ultramafic (Oa)	6: Large Column #2 Ultramafic (Oa_alt)	7: Large Column #3 Greywacke (Inside Ore)	8: Large Column #4 Greywacke (Outside Ore)	9: Large Column #5 Ultramafic (Ob)	10: Large Column #6 Greywacke (S10e)
Sample Date & Time			Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Fluoride [µg/g]	01-Dec-15	11:14	41.8	82.0	225	224	203	216
Mercury [µg/g]	01-Dec-15	11:36	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aluminum [µg/g]	01-Dec-15	10:52	14000	18000	13000	17000	23000	14000
Silver [µg/g]	30-Nov-15	16:18	0.14	0.22	0.26	0.11	0.17	0.29
Arsenic [µg/g]	30-Nov-15	16:18	670	640	71	33	78	270
Boron [µg/g]	30-Nov-15	16:18	2	2	5	3	2	6
Barium [µg/g]	30-Nov-15	16:18	34	46	61	210	370	53
Beryllium [µg/g]	30-Nov-15	16:18	0.13	0.14	0.39	0.36	0.66	0.69
Bismuth [µg/g]	30-Nov-15	16:18	< 0.09	< 0.09	0.13	< 0.09	< 0.09	0.24
Calcium [µg/g]	01-Dec-15	10:52	26000	25000	5500	7700	32000	9000
Cadmium [µg/g]	30-Nov-15	16:18	0.05	0.07	0.12	0.12	0.10	0.09
Cobalt [µg/g]	30-Nov-15	16:18	60	62	8.8	16	29	12
Chromium [µg/g]	30-Nov-15	16:18	860	990	53	280	810	230
Copper [µg/g]	30-Nov-15	16:18	23	55	19	32	75	22
Iron [µg/g]	01-Dec-15	10:52	32000	55000	43000	34000	39000	70000
Potassium [µg/g]	01-Dec-15	10:52	3100	5600	4900	8900	15000	6500
Lithium [µg/g]	30-Nov-15	16:18	9	11	13	18	19	10



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LR Report :

CA15258-NOV15

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: Large Column #1 Ultramafic (Oa)	6: Large Column #2 Ultramafic (Oa_alt)	7: Large Column #3 Greywacke (Inside Ore)	8: Large Column #4 Greywacke (Outside Ore)	9: Large Column #5 Ultramafic (Ob)	10: Large Column #6 Greywacke (S10e)
Magnesium [µg/g]	01-Dec-15	10:52	29000	30000	7700	17000	36000	7400
Manganese [µg/g]	30-Nov-15	16:18	940	1200	630	500	790	930
Molybdenum [µg/g]	30-Nov-15	16:18	0.3	0.5	2.4	1.7	0.8	2.0
Sodium [µg/g]	01-Dec-15	10:52	35	84	190	170	90	110
Nickel [µg/g]	30-Nov-15	16:18	680	570	21	78	230	100
Phosphorus [µg/g]	01-Dec-15	10:52	110	150	660	750	860	460
Lead [µg/g]	30-Nov-15	16:18	1.3	2.1	8.0	8.8	4.9	10
Antimony [µg/g]	30-Nov-15	16:18	2.1	1.9	< 0.8	< 0.8	< 0.8	1.4
Selenium [µg/g]	30-Nov-15	16:18	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Silicon [µg/g]	01-Dec-15	10:52	1100	1300	1400	1200	1400	1100
Tin [µg/g]	30-Nov-15	16:18	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Strontium [µg/g]	30-Nov-15	16:18	64	62	15	47	310	17
Titanium [µg/g]	30-Nov-15	16:18	310	520	560	1000	1400	610
Thallium [µg/g]	30-Nov-15	16:18	0.09	0.21	0.37	0.39	0.43	0.37
Uranium [µg/g]	30-Nov-15	16:18	0.048	0.26	1.9	1.7	0.63	0.84
Vanadium [µg/g]	30-Nov-15	16:18	39	47	22	48	58	27
Zinc [µg/g]	30-Nov-15	16:18	21	31	52	55	36	39

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ABA - Modified Sobek

17-February-2016

Date Rec. : 17 November 2015

LR Report: CA15259-NOV15

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: Large Column #1 Ultramafic (Oa)	6: Large Column #2 Ultramafic (Oa_alt)	7: Large Column #3 Greywacke (Inside Ore)	8: Large Column #4 Greywacke (Outside Ore)	9: Large Column #5 Ultramafic (Ob)	10: Large Column #6 Greywacke (S10e)
Sample Date & Time			Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Paste pH	27-Nov-15	16:59	9.33	9.52	9.09	9.65	9.69	8.84
Fizz Rate [---]	27-Nov-15	16:59	3	3	1	2	3	1
Sample weight [g]	27-Nov-15	16:59	2.04	2.01	2.10	2.09	2.02	1.97
HCl Added [mL]	27-Nov-15	16:59	69.40	72.00	20.00	25.00	63.60	32.00
HCl [Normality]	27-Nov-15	16:59	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	27-Nov-15	16:59	0.10	0.10	0.10	0.10	0.10	0.10
NaOH to pH=8.3 [mL]	27-Nov-15	16:59	29.53	31.76	13.45	14.26	20.23	20.93
Final pH	27-Nov-15	16:59	1.56	1.60	1.68	1.60	1.85	1.78
NP [t CaCO3/1000 t]	27-Nov-15	16:59	98	100	16	26	107	28
AP [t CaCO3/1000 t]	---	---	10.6	12.5	21.6	5.62	7.50	61.9
Net NP [t CaCO3/1000 t]	---	---	87.1	87.6	-5.96	20.1	99.9	-33.78
NP/AP [ratio]	---	---	9.20	8.01	0.72	4.57	14.3	0.45
Sulphur (total) [%]	27-Nov-15	18:14	0.408	0.519	1.05	0.272	0.261	2.54
Acid Leachable SO4-S [%]	---	---	0.07	0.12	0.36	0.09	0.02	0.56



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ABA - Modified Sobek

LR Report :

CA15259-NOV15

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: Large Column #1 Ultramafic (Oa)	6: Large Column #2 Ultramafic (Oa_alt)	7: Large Column #3 Greywacke (Inside Ore)	8: Large Column #4 Greywacke (Outside Ore)	9: Large Column #5 Ultramafic (Ob)	10: Large Column #6 Greywacke (S10e)
Sulphide [%]	27-Nov-15	10:27	0.34	0.40	0.69	0.18	0.24	1.98
Carbon (total) [%]	26-Nov-15	11:45	1.17	1.17	0.413	0.198	1.18	0.896
Carbonate [%]	26-Nov-15	11:45	5.43	5.10	1.61	0.739	5.52	3.27
C(g) [%]	Nov26/15	---	< 0.01	0.02	0.30	0.02	0.05	0.60

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SFE -24hr 4:1 L/S ratio

04-December-2015

Date Rec. : 17 November 2015

LR Report: CA15260-NOV15

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: Large Column #1 Ultramafic (Oa)	6: Large Column #2 Ultramafic (Oa_alt)	7: Large Column #3 Greywacke (Inside Ore)	8: Large Column #4 Greywacke (Outside Ore)	9: Large Column #5 Ultramafic (Ob)	10: Large Column #6 Greywacke (S10e)
Sample Date & Time			Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Sample weight [g]	24-Nov-15	09:08	200	200	200	200	200	200
Volume D.I. Water [mL]	24-Nov-15	09:08	800	800	800	800	800	800
Initial pH	24-Nov-15	09:08	9.60	9.69	9.43	9.74	9.86	9.73
Final pH	24-Nov-15	09:08	9.22	9.30	8.91	9.27	9.42	8.35
pH [no unit]	25-Nov-15	14:46	8.51	8.63	7.93	7.83	8.86	7.82
Alkalinity [mg/L as CaCO3]	25-Nov-15	14:46	45	45	34	18	45	53
Conductivity [uS/cm]	25-Nov-15	14:46	157	130	122	267	136	219
Fluoride [mg/L]	26-Nov-15	12:47	0.06	0.08	0.17	0.16	0.20	0.27
Chloride [mg/L]	25-Nov-15	15:23	9	8	7	5	4	< 1
Sulphate [mg/L]	25-Nov-15	15:23	16	6	17	94	12	50
Bromide [mg/L]	30-Nov-15	08:38	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nitrite (as N) [mg/L]	30-Nov-15	08:38	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Nitrate (as N) [mg/L]	30-Nov-15	08:38	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Chromium VI [ug/L]	26-Nov-15	10:54	0.6	0.4	< 0.2	< 0.2	0.3	< 0.2
Phosphorus (total reactive) [mg/L]	27-Nov-15	16:02	1.27	0.70	< 0.03	< 0.03	0.16	< 0.03
Mercury [mg/L]	26-Nov-15	08:26	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Silver [mg/L]	26-Nov-15	14:33	0.000102	0.000010	0.000010	0.000014	0.000007	< 0.000002



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LR Report :

CA15260-NOV15

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: Large Column #1 Ultramafic (Oa)	6: Large Column #2 Ultramafic (Oa_alt)	7: Large Column #3 Greywacke (Inside Ore)	8: Large Column #4 Greywacke (Outside Ore)	9: Large Column #5 Ultramafic (Ob)	10: Large Column #6 Greywacke (S10e)
Aluminum [mg/L]	26-Nov-15	14:33	0.025	0.043	0.568	0.120	0.053	0.100
Arsenic [mg/L]	26-Nov-15	14:33	3.12	1.99	0.0260	0.105	0.433	0.0449
Barium [mg/L]	26-Nov-15	14:33	0.0339	0.00831	0.00271	0.0248	0.0852	0.00573
Boron [mg/L]	26-Nov-15	14:33	0.0226	0.0187	0.0144	0.0164	0.0145	0.0194
Beryllium [mg/L]	26-Nov-15	14:33	0.000019	0.000021	0.000022	0.000015	0.000014	0.000014
Bismuth [mg/L]	26-Nov-15	14:33	0.000023	0.000026	0.000025	0.000014	0.000016	< 0.000007
Calcium [mg/L]	26-Nov-15	14:32	8.64	6.61	10.9	24.1	6.00	23.4
Cadmium [mg/L]	26-Nov-15	14:32	0.000087	0.000027	0.000010	0.000033	0.000012	0.000003
Cobalt [mg/L]	26-Nov-15	14:32	0.000131	0.000040	0.000011	0.000024	0.000010	0.000065
Chromium [mg/L]	26-Nov-15	14:32	0.00068	0.00039	0.00008	0.00011	0.00021	0.00004
Copper [mg/L]	26-Nov-15	14:32	0.00057	0.00043	0.00037	0.00042	0.00044	0.00045
Iron [mg/L]	26-Nov-15	14:32	0.029	< 0.007	0.044	0.007	< 0.007	< 0.007
Potassium [mg/L]	26-Nov-15	14:32	25.9	21.7	12.6	28.6	27.1	21.1
Lithium [mg/L]	26-Nov-15	14:32	0.000248	0.000410	0.00248	0.00171	0.00146	0.00291
Magnesium [mg/L]	26-Nov-15	14:32	3.42	2.61	1.03	2.89	1.65	3.08
Manganese [mg/L]	26-Nov-15	14:32	0.00182	0.00055	0.00453	0.00105	0.00033	0.0217
Molybdenum [mg/L]	26-Nov-15	14:32	0.00042	0.00082	0.00075	0.00152	0.00132	0.00153
Sodium [mg/L]	26-Nov-15	14:32	1.24	2.31	3.82	4.55	1.88	2.84
Nickel [mg/L]	26-Nov-15	14:32	0.0028	0.0013	0.0001	0.0002	0.0002	0.0021
Phosphorus [mg/L]	26-Nov-15	14:32	0.034	0.004	0.011	0.011	0.012	< 0.003
Lead [mg/L]	26-Nov-15	14:32	0.00009	0.00013	0.00015	0.00012	0.00011	0.00012
Antimony [mg/L]	26-Nov-15	14:32	0.0285	0.0203	0.0028	0.0030	0.0042	0.0048
Selenium [mg/L]	26-Nov-15	14:32	0.00060	0.00023	0.00034	0.00037	0.00038	0.00043
Silicon [mg/L]	26-Nov-15	14:32	5.79	5.58	2.21	5.02	5.79	2.58
Tin [mg/L]	26-Nov-15	14:32	0.00013	0.00012	0.00015	0.00014	0.00018	0.00007
Strontium [mg/L]	26-Nov-15	14:32	0.0664	0.0451	0.0162	0.133	0.0540	0.0470
Titanium [mg/L]	26-Nov-15	14:32	0.00024	0.00006	0.00100	0.00008	0.00018	0.00021
Thallium [mg/L]	26-Nov-15	14:32	0.000055	0.000034	0.000028	0.000048	0.000052	0.000031
Uranium [mg/L]	26-Nov-15	14:32	0.000012	0.000026	0.000769	0.000184	0.000041	0.000537
Vanadium [mg/L]	26-Nov-15	14:32	0.0114	0.0106	0.00103	0.00666	0.0105	0.00022
Zinc [mg/L]	26-Nov-15	14:32	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002



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LR Report :

CA15260-NOV15

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ABA - Modified Sobek with Siderite correction

08-January-2016

Date Rec. : 22 December 2015

LR Report: CA15278-DEC15

Reference: Project Number 1520817

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: AMQ15-433-01	6: AMQ15-433-02	7: AMQ15-433-03	8: AMQ15-438-01	9: AMQ15-438-02	10: AMQ15-438-03	11: AMQ15-438-04	12: AMQ15-481-01	13: AMQ15-481-02
Sample Date & Time			Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Paste pH	24-Dec-15	13:03	8.56	9.36	9.79	9.90	9.35	9.39	9.94	10.12	10.07
Fizz Rate [---]	24-Dec-15	13:03	1	1	3	2	2	2	2	2	2
Sample weight [g]	24-Dec-15	13:03	1.89	1.95	1.98	1.90	2.00	1.94	1.88	1.89	1.90
HCl Added [mL]	24-Dec-15	13:03	28.40	29.90	29.60	43.70	81.90	38.20	41.70	37.30	39.50
HCl [Normality]	24-Dec-15	13:03	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	24-Dec-15	13:03	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH to pH=8.3 [mL]	24-Dec-15	13:03	14.51	16.46	15.77	16.48	20.50	19.42	21.52	15.25	18.41
Final pH	24-Dec-15	13:03	1.88	1.88	1.90	1.91	1.77	1.81	1.82	1.90	1.79
NP [t CaCO3/1000 t]	24-Dec-15	13:03	13	8.0	10	45	122	17	18	33	25
AP [t CaCO3/1000 t]	---	---	73.8	62.8	1.88	0.31	0.31	64.7	24.7	1.56	20.0
Net NP [t CaCO3/1000 t]	---	---	-60.75	-54.81	8.12	44.7	122	-47.69	-6.69	31.4	5.00
NP/AP [ratio]	---	---	0.18	0.13	5.33	144	390	0.26	0.73	21.1	1.25
Sulphur (total) [%]	31-Dec-15	13:38	2.79	3.77	0.056	0.014	0.019	3.97	1.18	0.082	0.924
Acid Leachable SO4-S [%]	31-Dec-15	13:38	0.43	1.76	< 0.01	< 0.01	< 0.01	1.90	0.39	0.03	0.28
Sulphide [%]	31-Dec-15	13:38	2.36	2.01	0.06	0.01	0.01	2.07	0.79	0.05	0.64
Carbon (total) [%]	30-Dec-15	09:01	0.489	0.262	0.230	0.398	1.74	1.03	0.252	0.331	0.747
Carbonate [%]	30-Dec-15	09:01	0.125	0.400	0.984	1.59	8.02	3.56	0.610	1.30	2.45
C(g) [%]	---	04-Jan-16	< 0.05	0.10	< 0.05	< 0.05	< 0.05	0.75	0.06	< 0.05	0.40



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ABA - Modified Sobek with Siderite correction

LR Report :

CA15278-DEC15

Analysis	14: AMQ15-481-03	15: AMQ15-481-04	16: AMQ15-481-05
Sample Date & Time	Date:N/A	Date:N/A	Date:N/A
Paste pH	9.93	9.99	9.75
Fizz Rate [---]	2	1	3
Sample weight [g]	2.01	1.93	1.89
HCl Added [mL]	40.90	31.20	49.50
HCl [Normality]	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10
NaOH to pH=8.3 [mL]	16.90	15.44	21.08
Final pH	1.88	1.92	1.88
NP [t CaCO3/1000 t]	34	16	41
AP [t CaCO3/1000 t]	11.6	3.44	86.6
Net NP [t CaCO3/1000 t]	22.4	12.6	-45.56
NP/AP [ratio]	2.94	4.65	0.47
Sulphur (total) [%]	0.550	0.217	3.91
Acid Leachable SO4-S [%]	0.18	0.11	1.14
Sulphide [%]	0.37	0.11	2.77
Carbon (total) [%]	0.418	0.228	0.636
Carbonate [%]	1.43	0.734	1.42
C(g) [%]	< 0.05	< 0.05	< 0.05

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08-January-2016

Date Rec. : 22 December 2015

LR Report: CA15280-DEC15

Reference: Whole Rock Analysis 1520817

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	5: AMQ15-433-01	6: AMQ15-433-02	7: AMQ15-433-03	8: AMQ15-438-01	9: AMQ15-438-02	10: AMQ15-438-03	11: AMQ15-438-04	12: AMQ15-481-01	13: AMQ15-481-02	14: AMQ15-481-03	15: AMQ15-481-04	16: AMQ15-481-05
Sample Date & Time	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
SiO2 [%]	64.1	66.2	45.6	52.6	43.9	72.8	63.1	63.6	67.8	63.5	64.5	57.9
Al2O3 [%]	3.45	3.72	6.89	12.2	6.99	2.68	5.38	15.0	4.25	14.8	15.7	7.97
Fe2O3 [%]	20.6	20.8	10.4	7.97	10.2	15.0	21.5	5.20	18.5	5.74	5.58	17.0
MgO [%]	2.70	2.10	20.9	11.9	20.8	1.62	2.70	3.07	2.22	1.89	1.71	3.06
CaO [%]	2.33	1.18	8.76	1.41	4.78	1.85	1.92	2.38	2.40	3.36	2.36	5.17
Na2O [%]	0.04	0.03	0.18	1.44	0.04	0.04	0.12	2.68	0.22	2.39	2.98	0.25
K2O [%]	0.46	0.88	0.99	6.97	1.05	0.63	1.44	4.01	0.97	3.83	3.55	2.11
TiO2 [%]	0.09	0.10	0.31	0.60	0.39	0.06	0.14	0.48	0.12	0.43	0.47	0.27
P2O5 [%]	0.15	0.23	0.03	0.30	0.17	0.10	0.20	0.18	0.14	0.24	0.18	0.07
MnO [%]	0.52	0.50	0.24	0.08	0.16	0.23	0.38	0.09	0.37	0.10	0.08	0.56
Cr2O3 [%]	0.02	0.02	0.30	0.12	0.28	0.03	0.02	0.03	0.02	0.01	< 0.01	0.19
V2O5 [%]	< 0.01	< 0.01	0.02	0.02	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01	0.02
LOI [%]	4.55	3.48	5.01	3.62	10.7	3.93	3.08	2.81	2.56	2.95	2.51	3.58
Sum [%]	99.0	99.2	99.6	99.3	99.5	99.0	100.0	99.5	99.6	99.2	99.7	98.2



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Phone: 705-652-2000 FAX: 705-652-6365

LR Report :

CA15280-DEC15

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



SGS Canada Inc.

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Agnico Eagle Mines Limited

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05-February-2015

Date Rec. : 26 January 2015

LR Report: CA12406-JAN15

Reference: PO pending

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %
5: AMQ-ENV-01	47.9	7.70	9.04	15.3	5.66	0.55	2.22	0.43	0.19	0.16	0.20	0.02	10.2	99.6
6: AMQ-ENV-02	45.2	6.43	9.49	20.6	5.66	0.15	0.69	0.37	0.18	0.16	0.27	0.02	10.4	99.7
7: AMQ-ENV-03	64.4	16.7	5.90	2.05	1.08	2.53	3.80	0.50	0.20	0.09	< 0.01	0.01	2.40	99.6
8: AMQ-ENV-07	48.4	10.9	8.16	9.45	7.22	0.62	7.16	1.58	1.92	0.15	0.08	0.03	4.08	99.7
9: AMQ-ENV-08	47.7	10.0	9.40	12.9	7.57	1.21	4.80	1.13	1.15	0.14	0.13	0.03	2.46	98.7
10: AMQ-ENV-09	50.4	9.44	9.11	16.5	4.59	1.58	3.39	0.48	0.24	0.15	0.21	0.02	4.53	100.6
11: AMQ-ENV-10	45.5	7.14	9.73	20.7	4.49	0.34	1.84	0.38	0.17	0.15	0.27	< 0.01	10.4	101.1
12: AMQ-ENV-11	62.9	18.2	5.10	1.96	2.31	3.11	4.42	0.52	0.16	0.08	< 0.01	0.02	1.98	100.7
13: AMQ-ENV-12	63.7	17.3	4.96	2.18	1.85	3.08	3.32	0.50	0.17	0.08	< 0.01	0.02	2.46	99.6
14: AMQ-ENV-13	62.3	16.5	7.44	2.40	1.48	2.58	3.82	0.49	0.18	0.10	< 0.01	0.01	2.43	99.8
15: AMQ-ENV-14	63.5	17.0	5.72	2.03	1.64	3.38	3.44	0.52	0.17	0.08	< 0.01	< 0.01	1.94	99.4
16: AMQ-ENV-16	41.4	6.78	9.87	24.5	5.62	0.07	0.08	0.32	0.03	0.17	0.33	0.01	10.5	99.7
17: AMQ-ENV-17	43.9	8.11	11.9	22.5	5.27	0.22	0.29	0.39	0.03	0.23	0.37	0.03	6.05	99.2
18: AMQ-ENV-18	64.0	16.9	5.64	2.17	1.18	2.58	4.22	0.52	0.16	0.08	0.01	0.02	2.25	99.7
19: AMQ-ENV-19	63.6	17.3	5.54	2.31	1.64	3.30	3.44	0.54	0.17	0.06	0.05	0.02	2.41	100.4
20: AMQ-ENV-20	61.9	17.7	5.60	2.23	2.29	4.02	3.27	0.55	0.17	0.10	< 0.01	0.02	1.97	99.8
21: AMQ-ENV-28	68.4	14.0	7.38	2.07	0.57	2.40	3.22	0.40	0.17	0.11	< 0.01	< 0.01	2.64	101.4
22: AMQ-ENV-29	77.3	3.11	11.4	1.25	0.85	0.20	0.87	0.07	0.10	0.26	< 0.01	< 0.01	3.83	99.3
23: AMQ-ENV-31	47.3	9.39	13.9	14.0	7.22	0.31	1.50	0.46	0.03	0.43	0.48	0.03	4.18	99.2



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LR Report :

CA12406-JAN15

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %
24: AMQ-ENV-32	40.6	6.92	10.2	24.6	4.60	0.05	0.16	0.33	0.03	0.17	0.32	0.02	11.6	99.4
25: AMQ-ENV-33	41.9	6.62	10.4	24.5	5.13	0.07	0.13	0.33	0.03	0.17	0.33	0.02	9.92	99.5
26: AMQ-ENV-34	65.9	7.07	15.8	2.41	1.21	0.12	2.65	0.20	0.12	0.17	< 0.01	< 0.01	3.81	99.5
27: AMQ-ENV-36	70.8	10.2	7.38	1.40	1.33	1.52	2.67	0.20	0.13	0.12	0.01	< 0.01	3.36	99.1
28: AMQ-ENV-37	65.4	16.0	4.77	1.95	1.74	2.92	3.75	0.44	0.14	0.09	< 0.01	0.01	2.65	99.9
29: AMQ-ENV-39	40.5	6.52	9.91	25.0	5.01	0.04	0.06	0.32	0.03	0.14	0.32	0.02	12.3	100.2
30: AMQ-ENV-40	75.3	4.23	13.7	1.76	1.60	0.25	0.91	0.11	0.10	0.36	< 0.01	< 0.01	2.35	100.7
31: AMQ-ENV-41	64.8	16.2	5.05	2.22	1.39	2.93	4.16	0.46	0.16	0.08	0.02	< 0.01	2.02	99.5
32: AMQ-ENV-42	63.8	17.3	5.19	1.82	2.14	4.05	3.01	0.53	0.15	0.09	< 0.01	< 0.01	2.19	100.2
33: AMQ-ENV-43	36.7	5.04	8.56	20.2	9.65	0.46	0.43	0.22	0.04	0.28	0.24	0.01	17.7	99.6
34: AMQ-ENV-44	44.8	6.74	11.6	21.6	5.86	0.16	0.46	0.34	0.03	0.24	0.35	0.02	8.75	100.9
35: AMQ-ENV-46	62.7	18.5	4.05	1.80	1.66	3.83	3.93	0.49	0.13	0.07	< 0.01	< 0.01	2.21	99.4
36: AMQ-ENV-109	62.1	18.4	4.94	2.19	1.17	3.25	3.59	0.57	0.17	0.07	0.02	< 0.01	2.65	99.1
37: AMQ-ENV-112	61.2	13.7	6.73	5.84	1.73	2.42	3.87	0.59	0.29	0.11	0.07	0.02	2.97	99.6
38: AMQ-ENV-113	54.2	12.3	9.10	9.30	4.25	2.44	2.61	0.61	0.23	0.13	0.13	0.03	3.85	99.1
39: AMQ-ENV-114	58.8	16.1	9.10	3.18	2.66	3.24	3.71	0.98	0.32	0.12	0.02	< 0.01	1.96	100.1
40: AMQ-ENV-115	63.8	14.8	6.99	3.06	1.44	3.21	2.47	0.55	0.14	0.08	0.03	0.02	2.81	99.4
41: AMQ-ENV-116	49.9	11.4	11.0	11.8	5.41	2.30	2.12	0.70	0.25	0.16	0.17	0.03	4.07	99.3
42: AMQ-ENV-117	64.7	14.0	5.10	3.39	2.77	3.25	3.15	0.47	0.17	0.07	0.05	< 0.01	2.83	100.0
43: AMQ-ENV-118	49.2	9.44	10.4	13.9	6.54	1.49	1.99	0.57	0.23	0.16	0.22	0.02	4.44	98.6
44: AMQ-ENV-119	49.3	9.38	10.3	13.9	6.54	1.48	1.97	0.57	0.24	0.16	0.22	0.02	5.37	99.5
45: AMQ-ENV-120	51.6	12.8	10.4	9.43	5.59	2.16	3.65	0.81	0.35	0.16	0.10	0.02	2.70	99.8
46: AMQ-ENV-121	48.9	7.84	9.51	18.5	5.79	1.51	2.23	0.42	0.21	0.17	0.23	0.02	4.44	99.8
47: AMQ-ENV-122	57.6	14.6	8.70	5.18	2.55	4.52	2.23	0.71	0.17	0.10	0.05	0.02	2.76	99.2
48: AMQ-ENV-125	45.7	7.54	10.4	22.1	6.73	0.18	1.40	0.35	0.06	0.19	0.28	0.03	5.41	100.3
49-DUP: AMQ-ENV-33	42.3	6.67	10.5	24.6	5.22	0.05	0.13	0.34	0.02	0.16	0.34	0.02	9.97	100.2
50-DUP: AMQ-ENV-120	52.1	13.0	10.5	9.50	5.61	2.18	3.68	0.81	0.35	0.17	0.11	0.03	2.67	100.7



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LR Report :

CA12406-JAN15

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ABA - Modified Sobek

24-September-2015

Date Rec. : 16 September 2015

LR Report: CA12483-SEP15

Reference: OP-431539-J

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CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Fizz Rate ---	Sample weight g	HCl Added mL	HCl Normality	NaOH Normality	NaOH to pH=8.3 mL	Final pH	NP t CaCO3/1000 t
3: Analysis Approval Date		23-Sep-15	23-Sep-15	23-Sep-15	23-Sep-15	23-Sep-15	23-Sep-15	23-Sep-15	23-Sep-15
4: Analysis Approval Time		10:00	10:00	10:00	10:00	10:00	10:00	10:00	10:00
5: AMQ-ENV-68	Date:N/A	4	2.07	106.30	0.10	0.10	37.71	1.58	166
6: AMQ-ENV-48	Date:N/A	4	1.91	40.00	0.10	0.10	27.86	1.56	32
7: AMQ-ENV-52	Date:N/A	4	2.06	40.00	0.10	0.10	20.53	1.94	47
8: AMQ-ENV-56	Date:N/A	3	2.01	56.80	0.10	0.10	41.82	1.60	37
9: AMQ-ENV-57	Date:N/A	2	1.98	55.60	0.10	0.10	42.97	1.64	32
10: AMQ-ENV-58	Date:N/A	4	1.83	72.30	0.10	0.10	38.57	1.59	92
11: AMQ-ENV-47	Date:N/A	4	1.96	67.00	0.10	0.10	32.84	1.59	87
12: AMQ-ENV-49	Date:N/A	4	2.04	101.00	0.10	0.10	46.71	1.72	133
13: AMQ-ENV-50	Date:N/A	4	2.03	74.30	0.10	0.10	38.98	1.56	87
14: AMQ-ENV-51	Date:N/A	2	1.96	42.30	0.10	0.10	23.55	1.56	48
15: AMQ-ENV-53	Date:N/A	2	2.04	26.50	0.10	0.10	15.67	1.68	27
16: AMQ-ENV-54	Date:N/A	1	2.00	20.00	0.10	0.10	17.15	1.63	7.1
17: AMQ-ENV-59	Date:N/A	4	2.00	96.80	0.10	0.10	36.25	1.60	151
18: AMQ-ENV-60	Date:N/A	4	1.97	55.60	0.10	0.10	28.24	1.59	69
19: AMQ-ENV-61	Date:N/A	4	1.91	71.50	0.10	0.10	33.76	1.56	99
20: AMQ-ENV-62	Date:N/A	4	1.95	113.20	0.10	0.10	48.82	1.63	165
21: AMQ-ENV-63	Date:N/A	4	2.01	66.20	0.10	0.10	32.41	1.60	84



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ABA - Modified Sobek

LR Report :

CA12483-SEP15

Sample ID	Sample Date & Time	Fizz Rate ---	Sample weight g	HCl Added mL	HCl Normality	NaOH Normality	NaOH to pH=8.3 mL	Final pH	NP t CaCO ₃ /1000 t
22: AMQ-ENV-64	Date:N/A	4	2.01	53.50	0.10	0.10	22.54	1.57	77
23: AMQ-ENV-65	Date:N/A	3	2.01	44.80	0.10	0.10	27.79	1.82	42
24: AMQ-ENV-66	Date:N/A	3	2.01	33.80	0.10	0.10	21.29	1.58	31
25: AMQ-ENV-67	Date:N/A	3	2.00	38.00	0.10	0.10	23.73	1.59	36
26: AMQ-ENV-69	Date:N/A	3	2.02	65.50	0.10	0.10	39.28	1.63	65
27: AMQ-ENV-70	Date:N/A	3	2.01	55.80	0.10	0.10	19.20	1.61	91
28: AMQ-ENV-71	Date:N/A	3	2.01	36.20	0.10	0.10	22.19	1.58	35
29: AMQ-ENV-72	Date:N/A	4	2.07	133.70	0.10	0.10	56.36	1.63	187
30: AMQ-ENV-73	Date:N/A	4	1.97	40.00	0.10	0.10	13.84	1.62	66

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ABA - Modified Sobek

24-September-2015

Date Rec. : 16 September 2015

LR Report: CA12484-SEP15

Reference: OP-431539-J

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Fizz Rate ---	Sample weight g	HCl Added mL	HCl Normality	NaOH Normality	NaOH to pH=8.3 mL	Final pH	NP t CaCO ₃ /1000 t
3: Analysis Approval Date		24-Sep-15	24-Sep-15	24-Sep-15	24-Sep-15	24-Sep-15	24-Sep-15	24-Sep-15	24-Sep-15
4: Analysis Approval Time		08:24	08:24	08:24	08:24	08:24	08:24	08:24	08:24
5: AMQ-ENV-01	Date:N/A	3	2.18	104.00	0.10	0.10	35.20	1.62	158
6: AMQ-ENV-02	Date:N/A	3	1.92	68.80	0.10	0.10	16.35	1.85	137
7: AMQ-ENV-03	Date:N/A	1	1.96	20.00	0.10	0.10	18.27	1.43	4.4
8: AMQ-ENV-07	Date:N/A	4	1.90	53.40	0.10	0.10	21.92	1.95	83
9: AMQ-ENV-08	Date:N/A	2	1.98	37.90	0.10	0.10	20.43	1.59	44
10: AMQ-ENV-09	Date:N/A	2	1.85	32.10	0.10	0.10	10.44	1.98	58
11: AMQ-ENV-10	Date:N/A	3	2.05	71.50	0.10	0.10	15.23	1.95	137
12: AMQ-ENV-11	Date:N/A	1	1.85	20.00	0.10	0.10	12.63	1.67	20
13: AMQ-ENV-12	Date:N/A	1	1.98	20.00	0.10	0.10	13.83	1.52	16
14: AMQ-ENV-13	Date:N/A	1	1.90	20.00	0.10	0.10	15.94	1.45	11
15: AMQ-ENV-14	Date:N/A	1	2.06	20.00	0.10	0.10	15.96	1.46	9.8
16: AMQ-ENV-16	Date:N/A	3	1.95	60.00	0.10	0.10	18.65	1.64	106
17: AMQ-ENV-17	Date:N/A	3	1.87	26.60	0.10	0.10	13.17	1.81	36
18: AMQ-ENV-18	Date:N/A	1	2.02	20.00	0.10	0.10	14.38	1.68	14
19: AMQ-ENV-19	Date:N/A	1	1.99	20.00	0.10	0.10	14.32	1.73	14
20: AMQ-ENV-20	Date:N/A	1	2.09	20.00	0.10	0.10	13.15	1.94	16
21: AMQ-ENV-28	Date:N/A	1	1.97	20.00	0.10	0.10	16.51	1.61	8.9



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ABA - Modified Sobek

LR Report :

CA12484-SEP15

Sample ID	Sample Date & Time	Fizz Rate ---	Sample weight g	HCl Added mL	HCl Normality	NaOH Normality	NaOH to pH=8.3 mL	Final pH	NP t CaCO ₃ /1000 t
22: AMQ-ENV-29	Date:N/A	2	1.93	20.00	0.10	0.10	13.73	1.61	16
23: AMQ-ENV-31	Date:N/A	2	2.15	55.70	0.10	0.10	37.37	1.58	43
24: AMQ-ENV-32	Date:N/A	3	2.10	84.50	0.10	0.10	32.26	1.55	124
25: AMQ-ENV-33	Date:N/A	3	1.92	57.80	0.10	0.10	20.26	1.61	98
26: AMQ-ENV-34	Date:N/A	3	1.90	20.00	0.10	0.10	12.38	1.89	20
27: AMQ-ENV-36	Date:N/A	1	1.99	27.20	0.10	0.10	18.80	1.66	21
28: AMQ-ENV-37	Date:N/A	1	1.86	20.00	0.10	0.10	11.46	1.84	23
29: AMQ-ENV-39	Date:N/A	2	2.05	91.30	0.10	0.10	32.91	1.56	142
30: AMQ-ENV-40	Date:N/A	1	1.97	20.00	0.10	0.10	14.40	1.69	14
31: AMQ-ENV-41	Date:N/A	1	2.02	20.00	0.10	0.10	13.93	1.71	15
32: AMQ-ENV-42	Date:N/A	1	2.02	20.00	0.10	0.10	12.70	1.73	18
33: AMQ-ENV-43	Date:N/A	3	1.97	155.00	0.10	0.10	40.86	1.75	290
34: AMQ-ENV-44	Date:N/A	3	2.01	58.70	0.10	0.10	19.42	1.88	98
35: AMQ-ENV-46	Date:N/A	3	1.86	20.00	0.10	0.10	13.78	1.54	17
36: AMQ-ENV-109	Date:N/A	1	1.90	20.00	0.10	0.10	16.36	1.34	9.6
37: AMQ-ENV-112	Date:N/A	2	2.02	26.70	0.10	0.10	17.06	1.55	24
38: AMQ-ENV-113	Date:N/A	3	1.92	43.40	0.10	0.10	23.84	1.58	51
39: AMQ-ENV-114	Date:N/A	1	1.89	25.00	0.10	0.10	18.52	1.61	17
40: AMQ-ENV-115	Date:N/A	1	2.04	25.00	0.10	0.10	16.37	1.59	21
41: AMQ-ENV-116	Date:N/A	3	1.87	40.20	0.10	0.10	20.84	1.59	52
42: AMQ-ENV-117	Date:N/A	3	1.89	29.00	0.10	0.10	13.89	1.91	40
43: AMQ-ENV-118	Date:N/A	3	1.84	56.60	0.10	0.10	30.33	1.59	71
44: AMQ-ENV-119	Date:N/A	3	1.92	61.30	0.10	0.10	30.69	1.59	80
45: AMQ-ENV-120	Date:N/A	2	2.00	40.00	0.10	0.10	24.35	1.56	39
46: AMQ-ENV-121	Date:N/A	3	1.87	37.50	0.10	0.10	17.19	1.58	54
47: AMQ-ENV-122	Date:N/A	3	1.93	37.80	0.10	0.10	23.22	1.60	38
48: AMQ-ENV-125	Date:N/A	1	1.95	28.20	0.10	0.10	10.93	1.85	44



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LR Report :

CA12484-SEP15

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24-September-2015

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Date Rec. : 09 September 2015

LR Report: CA15121-SEP15

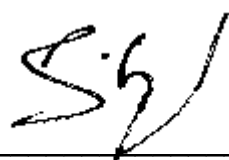
Reference: PO 460193

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: WTN-1	6: WTN-2	7: WTN-3	8: WTN-4	9: WTN-5
Sample Date & Time			Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Fizz Rate [---]	23-Sep-15	09:59	1	1	1	1	1
Sample weight [g]	23-Sep-15	09:59	1.91	1.99	1.98	2.01	2.05
HCl Added [mL]	23-Sep-15	09:59	20.00	20.00	20.00	20.00	20.00
HCl [Normality]	23-Sep-15	09:59	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	23-Sep-15	09:59	0.10	0.10	0.10	0.10	0.10
NaOH to pH=8.3 [mL]	23-Sep-15	09:59	21.91	21.61	21.26	21.71	22.25
Final pH	23-Sep-15	09:59	1.44	1.74	1.43	1.63	1.64
NP [t CaCO ₃ /1000 t]	23-Sep-15	09:59	-5.0	-4.1	-3.2	-4.3	-5.5
AP [t CaCO ₃ /1000 t]	---	---	2.19	1.87	0.94	1.25	1.25
Net NP [t CaCO ₃ /1000 t]	---	---	-7.19	-5.97	-4.14	-5.55	-6.75
NP/AP [ratio]	---	---	-2.29	-2.19	-3.41	-3.44	-4.40
Sulphur (total) [%]	23-Sep-15	11:20	0.141	0.152	0.143	0.160	0.169
Acid Leachable SO ₄ -S [%]	---	---	0.07	0.09	0.11	0.12	0.13
Sulphide [%]	23-Sep-15	11:20	0.07	0.06	0.03	0.04	0.04
Carbon (total) [%]	23-Sep-15	11:19	4.17	4.24	3.97	4.36	4.37
Carbonate [%]	23-Sep-15	11:19	< 0.025	0.040	< 0.025	< 0.025	< 0.025
C(g) [%]	15-Sep-15	14:04	0.02	< 0.01	< 0.01	< 0.01	0.02



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 Project Specialist
 Environmental Services, Analytical

**SGS Canada Inc.**

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06-October-2015

Agnico Eagle Mines Limited

Attn : Serge Ouellet

10200, route de Pressac, Rouyn-Noranda
, J0Y 1C0
Phone: (819) 759-3700 x5820, Fax:(819) 759-3663

Date Rec. : 09 September 2015
LR Report: CA15124-SEP15
Reference: PO 460193

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: WTN-1	6: WTN-2	7: WTN-3	8: WTN-4	9: WTN-5
Sample Date & Time			Date:N/A	Date:N/A	Date:N/A	Date:N/A	Date:N/A
Sample weight [g]	29-Sep-15	10:32	59	57	60	55	52
Volume D.I. Water [mL]	29-Sep-15	10:32	236	228	240	220	208
Initial pH	29-Sep-15	10:32	5.03	5.05	5.46	4.93	4.97
Final pH	29-Sep-15	10:32	4.98	4.98	5.25	4.90	4.92
pH [no unit]	30-Sep-15	08:31	8.94	8.48	9.69	8.94	8.74
Alkalinity [mg/L as CaCO ₃]	30-Sep-15	08:31	38	36	162	38	44
Conductivity [uS/cm]	30-Sep-15	08:31	173	223	376	214	200
Fluoride [mg/L]	30-Sep-15	15:29	0.07	0.07	1.65	0.12	0.08
Chloride [mg/L]	29-Sep-15	15:16	4	4	3	5	3
Sulphate [mg/L]	29-Sep-15	15:16	33	59	23	52	45
Bromide [mg/L]	30-Sep-15	08:52	< 3	< 3	< 3	< 3	< 3
Nitrite (as N) [mg/L]	30-Sep-15	08:52	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nitrate (as N) [mg/L]	30-Sep-15	08:52	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Chromium VI [ug/L]	01-Oct-15	13:50	0.3	0.4	14	0.6	0.4
Phosphorus (total reactive) [mg/L]	30-Sep-15	09:47	0.11	< 0.03	0.18	< 0.03	0.06
Mercury [mg/L]	30-Sep-15	16:26	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001
Silver [mg/L]	05-Oct-15	12:31	0.000101	0.000070	0.000084	0.000025	0.000026
Aluminum [mg/L]	05-Oct-15	12:31	0.684	0.477	1.01	0.387	0.581
Arsenic [mg/L]	05-Oct-15	12:31	0.372	0.0700	0.0703	0.133	0.229
Barium [mg/L]	05-Oct-15	12:31	0.0912	0.211	0.0088	0.156	0.133
Boron [mg/L]	05-Oct-15	12:31	0.155	0.219	1.85	0.382	0.185
Beryllium [mg/L]	05-Oct-15	12:31	0.000041	0.000023	0.000061	0.000025	0.000032
Bismuth [mg/L]	05-Oct-15	12:31	0.000039	0.000036	0.000064	0.000014	0.000018
Calcium [mg/L]	05-Oct-15	12:31	8.60	11.4	1.21	11.3	11.1
Cadmium [mg/L]	05-Oct-15	12:31	0.000048	0.000290	0.000012	0.000204	0.000118
Cobalt [mg/L]	05-Oct-15	12:31	0.00283	0.0192	0.00041	0.0212	0.00772
Chromium [mg/L]	05-Oct-15	12:31	0.00189	0.00130	0.0170	0.00150	0.00175
Copper [mg/L]	05-Oct-15	12:31	0.0127	0.0134	0.0127	0.0108	0.0124
Iron [mg/L]	05-Oct-15	12:31	4.08	0.615	1.43	0.508	1.45

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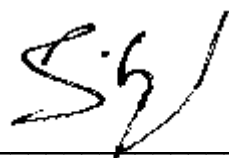
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Lakefield - Ontario - KOL 2H0

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LR Report : CA15124-SEP15

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: WTN-1	6: WTN-2	7: WTN-3	8: WTN-4	9: WTN-5
Potassium [mg/L]	05-Oct-15	12:31	2.31	2.43	0.806	2.71	2.43
Lithium [mg/L]	05-Oct-15	12:31	0.00457	0.00493	0.00233	0.00605	0.00545
Magnesium [mg/L]	05-Oct-15	12:31	1.74	2.26	0.502	2.27	2.05
Manganese [mg/L]	05-Oct-15	12:31	2.21	7.24	0.0113	2.69	3.00
Molybdenum [mg/L]	05-Oct-15	12:31	0.00029	0.00042	0.00056	0.00018	0.00034
Sodium [mg/L]	05-Oct-15	12:31	23.3	24.6	86.4	24.4	26.3
Nickel [mg/L]	05-Oct-15	12:31	0.0372	0.257	0.0041	0.215	0.0893
Phosphorus [mg/L]	05-Oct-15	12:31	0.238	0.134	0.276	0.130	0.185
Lead [mg/L]	05-Oct-15	12:31	0.00046	0.0157	0.00058	0.00022	0.00026
Antimony [mg/L]	05-Oct-15	12:31	0.0017	0.0025	0.0015	0.0017	0.0022
Selenium [mg/L]	05-Oct-15	12:31	0.00120	0.00113	0.00119	0.00108	0.00140
Silicon [mg/L]	05-Oct-15	12:31	38.6	38.8	26.4	39.0	47.0
Tin [mg/L]	05-Oct-15	12:31	0.00016	0.00025	0.00024	0.00025	0.00034
Strontium [mg/L]	05-Oct-15	12:31	0.0433	0.0629	0.0039	0.0597	0.0525
Titanium [mg/L]	05-Oct-15	12:31	0.0129	0.0083	0.0218	0.0071	0.0112
Thallium [mg/L]	05-Oct-15	12:31	0.000017	0.000027	0.000008	0.000024	0.000015
Uranium [mg/L]	05-Oct-15	12:31	0.000431	0.000271	0.00203	0.000317	0.000382
Vanadium [mg/L]	05-Oct-15	12:31	0.0008	0.0004	0.0027	0.0004	0.0006
Zinc [mg/L]	05-Oct-15	12:31	0.004	0.011	0.004	0.010	0.005



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ABA - Modified Sobek

02-September-2015

Date Rec. : 13 August 2015
LR Report: CA15166-AUG15
Reference: OP-460193-J

Copy: #1

CERTIFICATE OF ANALYSIS

Partial Report

Sample ID	Sample Date & Time	Paste pH	Fizz Rate ---	Sample weight g	HCl Added mL	HCl Normality	NaOH Normality	NaOH to pH=8.3 mL	Final pH	NP t CaCO3/1000 t
3: Analysis Approval Date		31-Aug-15	31-Aug-15	31-Aug-15	31-Aug-15	31-Aug-15	31-Aug-15	31-Aug-15	31-Aug-15	31-Aug-15
4: Analysis Approval Time		09:36	09:36	09:36	09:36	09:36	09:36	09:36	09:36	09:36
5: AMQ-ENV15-028	Date:N/A	8.93	4	1.99	75.60	0.10	0.10	34.49	1.59	103
6: AMQ-ENV15-029	Date:N/A	8.80	4	2.00	75.30	0.10	0.10	24.56	1.62	127
7: AMQ-ENV15-030	Date:N/A	9.05	4	2.04	83.80	0.10	0.10	28.45	1.57	136
8: AMQ-ENV15-016	Date:N/A	8.83	4	2.02	80.90	0.10	0.10	31.84	1.84	121
9: AMQ-ENV15-011	Date:N/A	9.70	4	2.00	49.90	0.10	0.10	28.29	1.61	54
10: AMQ-ENV15-014	Date:N/A	9.12	4	2.02	55.80	0.10	0.10	15.40	1.79	100
11: AMQ-ENV15-090	Date:N/A	9.55	4	2.02	55.00	0.10	0.10	25.22	1.70	74
12: AMQ-ENV15-026	Date:N/A	9.32	4	1.99	89.80	0.10	0.10	28.95	1.62	153
13: AMQ-ENV15-055	Date:N/A	9.05	4	1.98	40.00	0.10	0.10	13.80	1.62	66
14: AMQ-ENV15-021	Date:N/A	9.26	4	2.02	40.00	0.10	0.10	16.22	1.74	59
15: AMQ-ENV15-027	Date:N/A	9.32	3	1.97	39.20	0.10	0.10	24.91	1.62	36
16: AMQ-ENV15-040	Date:N/A	8.99	4	2.01	64.40	0.10	0.10	11.85	1.91	131
17: AMQ-ENV15-041	Date:N/A	9.05	4	2.03	40.00	0.10	0.10	12.86	1.69	67
18: AMQ-ENV15-034	Date:N/A	9.21	3	2.00	28.50	0.10	0.10	14.88	1.73	34
19: AMQ-ENV15-045	Date:N/A	9.24	3	1.96	57.30	0.10	0.10	31.17	1.60	67



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ABA - Modified Sobek

LR Report : CA15166-AUG15

Sample ID	Sample Date & Time	Paste pH	Fizz Rate ---	Sample weight g	HCl Added mL	HCl Normality	NaOH Normality	NaOH to pH=8.3 mL	Final pH	NP t CaCO3/1000 t
20: AMQ-ENV15-038	Date:N/A	8.95	3	2.03	61.90	0.10	0.10	39.45	1.69	55
21: AMQ-ENV15-039	Date:N/A	9.68	4	2.01	56.00	0.10	0.10	16.42	1.81	98
22: AMQ-ENV15-035	Date:N/A	8.98	3	2.05	27.50	0.10	0.10	17.93	1.55	23
23: AMQ-ENV15-010	Date:N/A	9.02	3	2.07	55.80	0.10	0.10	39.14	1.57	40
24: AMQ-ENV15-086	Date:N/A	9.66	3	1.99	25.30	0.10	0.10	9.68	1.61	39
25: AMQ-ENV15-099	Date:N/A	9.10	4	2.04	94.50	0.10	0.10	23.91	1.77	173
26: AMQ-ENV15-089	Date:N/A	8.90	3	2.04	63.00	0.10	0.10	38.11	1.74	61
27: AMQ-ENV15-020	Date:N/A	8.87	3	1.99	36.80	0.10	0.10	16.45	1.58	51
28: AMQ-ENV15-033	Date:N/A	9.72	4	1.96	77.70	0.10	0.10	32.90	1.55	114
29: AMQ-ENV15-109	Date:N/A	9.39	4	1.96	96.20	0.10	0.10	24.96	1.87	182
30: AMQ-ENV15-081	Date:N/A	9.52	3	2.06	25.80	0.10	0.10	13.36	1.58	30
31: AMQ-ENV15-076	Date:N/A	8.51	4	1.97	53.50	0.10	0.10	21.35	1.80	82
32: AMQ-ENV15-104	Date:N/A	9.80	3	2.01	38.30	0.10	0.10	19.87	1.57	46
33: AMQ-ENV15-094	Date:N/A	9.63	4	1.98	52.00	0.10	0.10	28.55	1.60	59
34: AMQ-ENV15-024	Date:N/A	9.67	4	1.97	40.00	0.10	0.10	25.47	1.56	37
35: AMQ-ENV15-023	Date:N/A	10.07	3	2.06	38.50	0.10	0.10	24.61	1.59	34
36: AMQ-ENV15-022	Date:N/A	9.98	4	1.97	52.00	0.10	0.10	27.67	1.58	62
37: AMQ-ENV15-042	Date:N/A	9.82	3	2.01	20.00	0.10	0.10	14.08	1.93	15
38: AMQ-ENV15-032	Date:N/A	9.93	4	1.97	40.00	0.10	0.10	23.11	1.93	43
39: AMQ-ENV15-003	Date:N/A	9.90	4	2.09	54.00	0.10	0.10	33.51	1.57	49
40: AMQ-ENV15-001	Date:N/A	9.69	3	2.03	28.30	0.10	0.10	17.72	1.93	26
41: AMQ-ENV15-047	Date:N/A	9.39	3	2.03	39.00	0.10	0.10	19.46	1.55	48
42: AMQ-ENV15-006	Date:N/A	9.21	3	2.04	42.20	0.10	0.10	21.38	1.59	51
43: AMQ-ENV15-008	Date:N/A	9.40	4	1.98	40.00	0.10	0.10	28.77	1.55	28
44: AMQ-ENV15-009	Date:N/A	9.09	3	1.96	20.00	0.10	0.10	14.81	1.82	13
45: AMQ-ENV15-012	Date:N/A	9.44	3	2.08	37.00	0.10	0.10	25.24	1.63	28
46: AMQ-ENV15-013	Date:N/A	9.76	3	1.98	37.50	0.10	0.10	21.01	1.56	42
47: AMQ-ENV15-004	Date:N/A	9.64	2	1.96	36.40	0.10	0.10	22.09	1.59	36
48: AMQ-ENV15-005	Date:N/A	9.26	3	2.08	47.30	0.10	0.10	21.88	1.58	61
49: AMQ-ENV15-091	Date:N/A	8.54	1	1.98	25.50	0.10	0.10	21.29	1.59	11
50: AMQ-ENV15-101	Date:N/A	9.52	3	1.98	69.30	0.10	0.10	39.03	1.59	76



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ABA - Modified Sobek

LR Report :

CA15166-AUG15

Sample ID	Sample Date & Time	Paste pH	Fizz Rate ---	Sample weight g	HCl Added mL	HCl Normality	NaOH Normality	NaOH to pH=8.3 mL	Final pH	NP t CaCO3/1000 t
51: AMQ-ENV15-102	Date:N/A	9.91	2	1.96	56.40	0.10	0.10	37.33	1.62	49
52: AMQ-ENV15-103	Date:N/A	9.58	3	1.98	55.30	0.10	0.10	37.78	1.58	44
53: AMQ-ENV15-098	Date:N/A	9.75	1	2.10	26.80	0.10	0.10	21.56	1.56	12
54: AMQ-ENV15-093	Date:N/A	9.52	3	1.96	48.00	0.10	0.10	19.86	1.91	72
55: AMQ-ENV15-097	Date:N/A	9.90	2	1.92	25.50	0.10	0.10	17.80	1.57	20
56: AMQ-ENV15-110	Date:N/A	9.69	2	2.09	37.20	0.10	0.10	22.11	1.57	36
57: AMQ-ENV15-106	Date:N/A	9.92	1	2.05	20.00	0.10	0.10	13.91	1.89	15
58: AMQ-ENV15-107	Date:N/A	9.95	1	1.97	20.00	0.10	0.10	14.17	1.94	15
59: AMQ-ENV15-108	Date:N/A	9.93	1	2.05	20.00	0.10	0.10	14.59	1.84	13
60: AMQ-ENV15-064	Date:N/A	9.64	1	1.96	20.00	0.10	0.10	15.79	1.83	11
61: AMQ-ENV15-065	Date:N/A	9.90	1	1.97	20.00	0.10	0.10	14.53	1.92	14
62: AMQ-ENV15-066	Date:N/A	9.68	1	1.95	20.00	0.10	0.10	14.56	1.90	14
63: AMQ-ENV15-112	Date:N/A	10.02	1	2.08	25.00	0.10	0.10	19.71	1.55	13
64: AMQ-ENV15-049	Date:N/A	9.55	2	2.07	45.60	0.10	0.10	26.62	1.61	46
65: AMQ-ENV15-048	Date:N/A	9.75	3	2.04	40.40	0.10	0.10	25.45	1.73	37
66: AMQ-ENV15-025	Date:N/A	9.71	4	2.06	50.00	0.10	0.10	23.08	1.73	65
67: AMQ-ENV15-054	Date:N/A	8.43	2	2.07	36.40	0.10	0.10	23.91	1.55	30
68: AMQ-ENV15-073	Date:N/A	9.79	1	2.00	20.00	0.10	0.10	15.63	1.69	11
69: AMQ-ENV15-075	Date:N/A	9.73	2	2.00	25.50	0.10	0.10	17.83	1.56	19
70: AMQ-ENV15-074	Date:N/A	9.81	2	2.08	20.00	0.10	0.10	13.42	1.87	16
71: AMQ-ENV15-002	Date:N/A	9.33	2	2.03	26.50	0.10	0.10	17.70	1.81	22
72: AMQ-ENV15-100	Date:N/A	9.61	3	1.97	37.60	0.10	0.10	23.76	1.58	35
73: AMQ-ENV15-077	Date:N/A	9.79	4	2.07	52.80	0.10	0.10	30.07	1.65	55
74: AMQ-ENV15-019	Date:N/A	8.80	2	2.09	26.50	0.10	0.10	17.74	1.56	21
75: AMQ-ENV15-046	Date:N/A	9.02	2	2.08	38.30	0.10	0.10	24.74	1.59	33
76: AMQ-ENV15-037	Date:N/A	5.85	1	2.06	20.00	0.10	0.10	18.32	1.30	4.1
77: AMQ-ENV15-007	Date:N/A	9.50	2	1.97	41.50	0.10	0.10	21.94	1.62	50
78: AMQ-ENV15-092	Date:N/A	9.06	1	2.06	43.00	0.10	0.10	27.38	1.59	38
79: AMQ-ENV15-122	Date:N/A	9.66	4	2.13	119.30	0.10	0.10	49.05	1.58	165
80: AMQ-ENV15-088	Date:N/A	8.83	2	1.94	40.00	0.10	0.10	30.91	1.58	23
81: AMQ-ENV15-095	Date:N/A	9.62	3	1.98	24.50	0.10	0.10	14.78	1.58	24



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ABA - Modified Sobek

LR Report : CA15166-AUG15

Sample ID	Sample Date & Time	Paste pH	Fizz Rate ---	Sample weight g	HCl Added mL	HCl Normality	NaOH Normality	NaOH to pH=8.3 mL	Final pH	NP t CaCO3/1000 t
82: AMQ-ENV15-096	Date:N/A	9.77	3	2.00	39.30	0.10	0.10	25.35	1.86	35
83: AMQ-ENV15-085	Date:N/A	9.12	2	2.01	28.00	0.10	0.10	19.80	1.61	20
84: AMQ-ENV15-058	Date:N/A	8.47	1	1.96	23.80	0.10	0.10	18.59	1.60	13
85: AMQ-ENV15-056	Date:N/A	9.43	2	1.95	20.00	0.10	0.10	14.89	1.82	13
86: AMQ-ENV15-115	Date:N/A	10.14	2	1.98	39.60	0.10	0.10	27.43	1.59	31
87: AMQ-ENV15-111	Date:N/A	8.97	3	1.97	64.10	0.10	0.10	24.69	1.56	100
88: AMQ-ENV15-124	Date:N/A	9.60	4	2.05	57.20	0.10	0.10	19.57	1.70	92
89: AMQ-ENV15-123	Date:N/A	9.30	4	2.00	125.50	0.10	0.10	50.73	1.58	187
90: AMQ-ENV15-116	Date:N/A	6.17	1	1.93	20.00	0.10	0.10	19.09	1.11	2.3
91: AMQ-ENV15-130	Date:N/A	6.20	1	1.98	20.00	0.10	0.10	19.12	1.43	2.2
92: AMQ-ENV15-131	Date:N/A	7.06	1	2.04	20.00	0.10	0.10	18.64	1.17	3.3
93: AMQ-ENV15-132	Date:N/A	7.74	1	2.03	20.00	0.10	0.10	18.49	1.13	3.7
94: AMQ-ENV15-117	Date:N/A	7.21	1	1.99	20.00	0.10	0.10	17.68	1.27	5.8
95: AMQ-ENV15-118	Date:N/A	7.13	1	2.00	20.00	0.10	0.10	16.62	1.67	8.4
96: AMQ-ENV15-119	Date:N/A	7.50	1	2.02	20.00	0.10	0.10	17.67	1.42	5.8
97: AMQ-ENV15-125	Date:N/A	7.42	1	1.96	20.00	0.10	0.10	18.07	1.34	4.9
98: AMQ-ENV15-126	Date:N/A	8.50	1	2.02	20.00	0.10	0.10	17.54	1.38	6.1
99: AMQ-ENV15-127	Date:N/A	8.50	1	2.06	20.00	0.10	0.10	17.34	1.40	6.5
100: AMQ-ENV15-128	Date:N/A	8.12	1	2.09	20.00	0.10	0.10	17.71	1.32	5.5
101: AMQ-ENV15-129	Date:N/A	7.17	1	2.04	20.00	0.10	0.10	18.34	1.33	4.1
102: AMQ-ENV15-105	Date:N/A	9.39	3	2.03	26.80	0.10	0.10	14.66	1.63	30
103: AMQ-ENV15-121	Date:N/A	9.32	3	1.96	91.80	0.10	0.10	33.97	1.56	148
104: AMQ-ENV15-068	Date:N/A	9.43	3	1.98	51.00	0.10	0.10	25.51	1.78	64
105: AMQ-ENV15-051	Date:N/A	9.50	3	1.96	104.10	0.10	0.10	38.78	1.55	167
106: AMQ-ENV15-071	Date:N/A	9.31	3	2.05	102.30	0.10	0.10	35.97	1.56	162
107: AMQ-ENV15-084	Date:N/A	9.25	3	2.02	89.50	0.10	0.10	32.08	1.55	142
108: AMQ-ENV15-083	Date:N/A	9.59	3	1.95	53.20	0.10	0.10	14.70	1.85	99
109: AMQ-ENV15-050	Date:N/A	9.85	2	1.94	62.20	0.10	0.10	32.18	1.57	77
110: AMQ-ENV15-044	Date:N/A	9.77	3	1.98	47.40	0.10	0.10	26.38	1.55	53
111: AMQ-ENV15-070	Date:N/A	10.12	2	1.94	42.20	0.10	0.10	21.17	1.55	54
112: AMQ-ENV15-072	Date:N/A	9.99	3	1.95	25.00	0.10	0.10	13.41	1.61	30



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ABA - Modified Sobek

LR Report :

CA15166-AUG15

Sample ID	Sample Date & Time	Paste pH	Fizz Rate ---	Sample weight g	HCl Added mL	HCl Normality	NaOH Normality	NaOH to pH=8.3 mL	Final pH	NP t CaCO3/1000 t
113: AMQ-ENV15-120	Date:N/A	9.98	2	2.06	20.00	0.10	0.10	13.09	1.82	17
114: AMQ-ENV15-113	Date:N/A	10.09	2	2.01	20.00	0.10	0.10	11.87	1.86	20
115: AMQ-ENV15-052	Date:N/A	9.93	4	2.02	77.50	0.10	0.10	34.65	1.58	106
116: AMQ-ENV15-060	Date:N/A	10.18	1	2.04	20.00	0.10	0.10	14.66	1.65	13
117: AMQ-ENV15-062	Date:N/A	0.93	2	1.96	113.40	0.10	0.10	41.04	1.55	185
118: AMQ-ENV15-063	Date:N/A	10.16	1	2.02	20.00	0.10	0.10	13.85	1.69	15
119: AMQ-ENV15-114	Date:N/A	9.63	1	1.97	36.00	0.10	0.10	25.70	1.77	26
120: AMQ-ENV15-078	Date:N/A	9.59	2	2.00	40.00	0.10	0.10	22.65	1.89	43
121: AMQ-ENV15-043	Date:N/A	8.99	4	1.97	40.00	0.10	0.10	27.21	1.60	32
122: AMQ-ENV15-067	Date:N/A	9.71	4	2.01	55.00	0.10	0.10	25.49	1.84	73
123: AMQ-ENV15-061	Date:N/A	9.85	2	1.97	26.30	0.10	0.10	17.89	1.80	21

Sample ID	AP t CaCO3/1000 t	Net NP t CaCO3/1000 t	NP/AP ratio	Sulphur (total) %	Acid Leachable SO4-S %	Sulphide %	Carbon (total) %	Carbonate %	Carbonate (graphite corrected) %	C(g) %
3: Analysis Approval Date	---	---	---	31-Aug-15	---	31-Aug-15	25-Aug-15	25-Aug-15	01-Sep-15	27-Aug-15
4: Analysis Approval Time	---	---	---	09:54	---	09:45	13:27	13:27	14:18	10:00
5: AMQ-ENV15-028	0.94	102	110	0.060	0.03	0.03	1.11	5.30	5.30	< 0.01
6: AMQ-ENV15-029	0.31	126	409	0.017	0.02	< 0.01	1.61	7.60	7.60	< 0.01
7: AMQ-ENV15-030	0.31	135	438	0.019	0.02	< 0.01	1.72	8.38	8.38	< 0.01
8: AMQ-ENV15-016	33.4	88.0	3.63	1.28	0.21	1.07	1.28	5.69	5.69	< 0.01
9: AMQ-ENV15-011	0.62	53.4	86.4	0.028	< 0.01	0.02	0.453	2.10	2.10	< 0.01
10: AMQ-ENV15-014	0.31	99.7	323	0.008	< 0.01	< 0.01	1.18	5.74	5.74	< 0.01
11: AMQ-ENV15-090	4.38	69.3	16.8	0.151	0.01	0.14	0.785	3.61	3.61	< 0.01
12: AMQ-ENV15-026	3.75	149	40.8	0.144	0.02	0.12	1.77	9.03	9.03	< 0.01
13: AMQ-ENV15-055	0.31	65.9	212	0.042	0.03	0.01	0.788	3.75	3.75	< 0.01
14: AMQ-ENV15-021	3.44	55.5	17.1	0.155	0.04	0.11	0.583	2.72	2.72	< 0.01
15: AMQ-ENV15-027	37.2	-0.89	0.98	1.31	0.12	1.19	0.298	1.03	1.03	< 0.01
16: AMQ-ENV15-040	0.94	130	139	0.047	0.02	0.03	1.59	7.60	7.60	< 0.01
17: AMQ-ENV15-041	0.31	66.6	216	< 0.005	< 0.01	< 0.01	0.829	3.95	3.95	< 0.01



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LR Report :

CA15166-AUG15

Sample ID	AP t CaCO ₃ /1000 t	Net NP t CaCO ₃ /1000 t	NP/AP ratio	Sulphur (total) %	Acid Leachable SO ₄ -S %	Sulphide %	Carbon (total) %	Carbonate %	Carbonate (graphite corrected) %	C(g) %
18: AMQ-ENV15-034	53.1	-19.1	0.64	1.94	0.24	1.70	0.322	1.10	1.10	< 0.01
19: AMQ-ENV15-045	7.50	59.1	8.88	0.296	0.06	0.24	0.646	2.98	2.98	< 0.01
20: AMQ-ENV15-038	20.6	34.7	2.68	0.728	0.07	0.66	0.444	1.62	1.62	< 0.01
21: AMQ-ENV15-039	0.31	98.2	315	0.021	0.01	0.01	1.03	4.68	4.68	< 0.01
22: AMQ-ENV15-035	42.2	-18.9	0.55	1.52	0.17	1.35	0.180	0.545	0.545	< 0.01
23: AMQ-ENV15-010	53.4	-13.2	0.75	1.65	< 0.01	1.71	0.317	0.994	0.994	< 0.01
24: AMQ-ENV15-086	4.06	35.2	9.67	0.141	0.01	0.13	0.402	1.80	1.80	< 0.01
25: AMQ-ENV15-099	0.94	172	185	0.051	0.02	0.03	2.18	10.7	10.7	< 0.01
26: AMQ-ENV15-089	98.1	-37.1	0.62	3.40	0.26	3.14	0.510	1.79	1.79	< 0.01
27: AMQ-ENV15-020	8.75	42.4	5.84	0.370	0.09	0.28	0.590	2.60	2.47	0.03
28: AMQ-ENV15-033	0.31	114	369	0.011	0.01	< 0.01	1.34	6.46	6.46	< 0.01
29: AMQ-ENV15-109	0.31	181	586	0.007	< 0.01	< 0.01	2.18	10.5	10.5	< 0.01
30: AMQ-ENV15-081	2.19	28.0	13.8	0.100	0.03	0.07	0.247	1.13	1.13	< 0.01
31: AMQ-ENV15-076	111	-29.0	0.74	3.83	0.29	3.54	2.19	9.32	3.48	1.17
32: AMQ-ENV15-104	0.31	45.6	147	0.015	< 0.01	0.01	0.277	1.21	1.21	< 0.01
33: AMQ-ENV15-094	0.31	58.9	189	0.024	0.01	0.01	0.415	1.73	1.73	< 0.01
34: AMQ-ENV15-024	0.62	36.3	59.0	0.035	0.02	0.02	0.147	0.555	0.555	< 0.01
35: AMQ-ENV15-023	0.31	33.4	108	0.032	0.02	0.01	0.155	0.545	0.545	< 0.01
36: AMQ-ENV15-022	1.56	60.1	39.5	0.084	0.03	0.05	0.401	1.76	1.76	< 0.01
37: AMQ-ENV15-042	1.88	12.8	7.84	0.108	0.05	0.06	0.095	0.310	0.310	< 0.01
38: AMQ-ENV15-032	0.31	42.6	137	0.033	0.02	0.01	0.206	0.814	0.814	< 0.01
39: AMQ-ENV15-003	0.31	48.7	157	0.018	< 0.01	0.01	0.278	1.16	1.16	< 0.01
40: AMQ-ENV15-001	2.19	23.8	11.9	0.088	0.02	0.07	0.104	0.360	0.360	< 0.01
41: AMQ-ENV15-047	0.31	47.8	155	< 0.005	< 0.01	< 0.01	0.331	1.48	1.48	< 0.01
42: AMQ-ENV15-006	0.31	50.7	165	0.010	0.01	< 0.01	0.351	1.57	1.57	< 0.01
43: AMQ-ENV15-008	41.2	-12.8	0.69	2.51	1.19	1.32	1.35	5.25	0.050	1.04
44: AMQ-ENV15-009	42.8	-29.6	0.31	1.94	0.57	1.37	0.535	1.32	0.545	0.16
45: AMQ-ENV15-012	1.25	27.0	22.6	0.052	0.01	0.04	0.110	0.390	0.390	< 0.01
46: AMQ-ENV15-013	0.94	40.7	44.4	0.030	< 0.01	0.03	0.268	1.22	1.22	< 0.01
47: AMQ-ENV15-004	0.94	35.6	38.9	0.036	< 0.01	0.03	0.192	0.764	0.764	< 0.01
48: AMQ-ENV15-005	0.31	60.8	197	< 0.005	< 0.01	< 0.01	0.559	2.52	2.52	< 0.01



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LR Report :

CA15166-AUG15

Sample ID	AP t CaCO ₃ /1000 t	Net NP t CaCO ₃ /1000 t	NP/AP ratio	Sulphur (total) %	Acid Leachable SO ₄ -S %	Sulphide %	Carbon (total) %	Carbonate %	Carbonate (graphite corrected) %	C(g) %
49: AMQ-ENV15-091	47.8	-37.2	0.22	1.44	< 0.01	1.53	0.271	0.435	0.266	0.03
50: AMQ-ENV15-101	3.75	72.6	20.4	0.158	0.04	0.12	0.652	2.90	2.90	< 0.01
51: AMQ-ENV15-102	2.19	46.5	22.3	0.115	0.04	0.07	0.286	1.14	1.14	< 0.01
52: AMQ-ENV15-103	0.31	43.9	143	0.012	0.01	< 0.01	0.467	2.04	2.04	< 0.01
53: AMQ-ENV15-098	7.50	5.00	1.67	0.379	0.14	0.24	0.036	0.070	0.070	< 0.01
54: AMQ-ENV15-093	3.12	68.7	23.0	0.120	0.02	0.10	0.821	3.25	3.25	< 0.01
55: AMQ-ENV15-097	3.75	16.4	5.36	0.362	0.24	0.12	0.151	0.380	0.380	< 0.01
56: AMQ-ENV15-110	2.19	33.9	16.5	0.112	0.04	0.07	0.346	1.36	1.36	< 0.01
57: AMQ-ENV15-106	6.88	8.02	2.17	0.363	0.14	0.22	0.077	0.140	0.140	< 0.01
58: AMQ-ENV15-107	3.12	11.7	4.74	0.212	0.11	0.10	0.080	0.210	0.210	< 0.01
59: AMQ-ENV15-108	4.69	8.51	2.82	0.293	0.14	0.15	0.071	0.155	0.155	< 0.01
60: AMQ-ENV15-064	5.94	4.76	1.80	0.292	0.10	0.19	0.036	0.085	0.085	< 0.01
61: AMQ-ENV15-065	6.25	7.65	2.22	0.311	0.11	0.20	0.062	0.150	0.150	< 0.01
62: AMQ-ENV15-066	5.94	8.06	2.36	0.279	0.09	0.19	0.054	0.115	0.115	< 0.01
63: AMQ-ENV15-112	23.1	-10.4	0.55	1.59	0.85	0.74	0.490	1.99	0.075	0.38
64: AMQ-ENV15-049	0.62	45.3	73.4	0.023	< 0.01	0.02	0.309	1.29	1.29	< 0.01
65: AMQ-ENV15-048	2.50	34.1	14.6	0.154	0.07	0.08	0.469	1.80	1.59	0.04
66: AMQ-ENV15-025	32.2	33.1	2.03	1.94	0.91	1.03	1.32	4.29	1.80	0.50
67: AMQ-ENV15-054	125	-95.1	0.24	4.27	0.26	4.01	0.280	0.550	0.550	< 0.01
68: AMQ-ENV15-073	4.38	6.52	2.49	0.212	0.07	0.14	0.024	0.040	0.040	< 0.01
69: AMQ-ENV15-075	12.5	6.70	1.54	0.998	0.60	0.40	0.190	0.460	0.460	< 0.01
70: AMQ-ENV15-074	5.00	10.8	3.16	0.301	0.14	0.16	0.107	0.270	0.270	< 0.01
71: AMQ-ENV15-002	4.38	17.3	4.96	0.151	0.01	0.14	0.106	0.335	0.335	< 0.01
72: AMQ-ENV15-100	4.06	31.0	8.64	0.193	0.06	0.13	0.275	0.929	0.929	< 0.01
73: AMQ-ENV15-077	1.56	53.3	35.1	0.070	0.02	0.05	0.507	2.13	2.13	< 0.01
74: AMQ-ENV15-019	90.3	-69.4	0.23	2.66	< 0.01	2.89	0.712	1.69	0.330	0.27
75: AMQ-ENV15-046	81.2	-48.6	0.40	2.67	0.07	2.60	0.514	0.615	0.615	< 0.01
76: AMQ-ENV15-037	63.4	-59.3	0.06	3.80	1.77	2.03	1.04	4.38	< 0.025	0.94
77: AMQ-ENV15-007	46.6	3.04	1.07	1.73	0.24	1.49	2.06	8.01	1.17	1.37
78: AMQ-ENV15-092	75.9	-38.0	0.50	3.57	1.14	2.43	0.723	1.76	0.849	0.18
79: AMQ-ENV15-122	0.94	164	176	0.043	0.01	0.03	1.71	8.15	8.15	< 0.01



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LR Report :

CA15166-AUG15

Sample ID	AP t CaCO ₃ /1000 t	Net NP t CaCO ₃ /1000 t	NP/AP ratio	Sulphur (total) %	Acid Leachable SO ₄ -S %	Sulphide %	Carbon (total) %	Carbonate %	Carbonate (graphite corrected) %	C(g) %
80: AMQ-ENV15-088	68.1	-44.7	0.34	4.92	2.74	2.18	0.968	3.73	0.285	0.69
81: AMQ-ENV15-095	20.3	4.19	1.21	0.899	0.25	0.65	0.552	1.61	0.724	0.18
82: AMQ-ENV15-096	15.9	19.0	2.19	1.21	0.70	0.51	1.55	6.53	0.839	1.14
83: AMQ-ENV15-085	24.7	-4.29	0.83	2.20	1.41	0.79	0.159	0.205	0.205	< 0.01
84: AMQ-ENV15-058	56.2	-43.0	0.24	1.83	0.03	1.80	0.142	0.250	0.250	< 0.01
85: AMQ-ENV15-056	7.50	5.60	1.75	0.324	0.08	0.24	0.081	0.200	0.200	< 0.01
86: AMQ-ENV15-115	27.2	3.51	1.13	1.14	0.27	0.87	0.532	1.35	0.585	0.15
87: AMQ-ENV15-111	1.88	98.1	53.3	0.062	< 0.01	0.06	1.29	5.99	5.99	< 0.01
88: AMQ-ENV15-124	2.50	89.3	36.7	0.112	0.03	0.08	1.01	4.92	4.92	< 0.01
89: AMQ-ENV15-123	0.62	186	299	0.018	< 0.01	0.02	2.42	11.6	11.6	< 0.01
90: AMQ-ENV15-116	0.31	1.99	7.42	< 0.005	< 0.01	< 0.01	1.02	< 0.025	< 0.025	< 0.01
91: AMQ-ENV15-130	0.31	1.89	7.10	< 0.005	< 0.01	< 0.01	1.83	0.035	0.035	< 0.01
92: AMQ-ENV15-131	0.31	2.99	10.6	< 0.005	< 0.01	< 0.01	0.372	< 0.025	< 0.025	< 0.01
93: AMQ-ENV15-132	0.31	3.39	11.9	< 0.005	< 0.01	< 0.01	0.112	< 0.025	< 0.025	< 0.01
94: AMQ-ENV15-117	0.31	5.49	18.7	< 0.005	< 0.01	< 0.01	0.355	< 0.025	< 0.025	< 0.01
95: AMQ-ENV15-118	0.31	8.09	27.1	< 0.005	< 0.01	< 0.01	0.582	0.055	0.055	< 0.01
96: AMQ-ENV15-119	0.31	5.49	18.7	< 0.005	< 0.01	< 0.01	0.507	0.030	0.030	< 0.01
97: AMQ-ENV15-125	0.31	4.59	15.8	< 0.005	< 0.01	< 0.01	0.526	< 0.025	< 0.025	< 0.01
98: AMQ-ENV15-126	0.31	5.79	19.7	< 0.005	< 0.01	< 0.01	0.106	< 0.025	< 0.025	< 0.01
99: AMQ-ENV15-127	0.31	6.19	21.0	< 0.005	< 0.01	< 0.01	0.183	< 0.025	< 0.025	0.01
100: AMQ-ENV15-128	0.31	5.19	17.7	< 0.005	< 0.01	< 0.01	0.250	< 0.025	< 0.025	< 0.01
101: AMQ-ENV15-129	0.31	3.79	13.2	< 0.005	< 0.01	< 0.01	0.654	< 0.025	< 0.025	< 0.01
102: AMQ-ENV15-105	0.62	29.3	47.8	0.139	0.12	0.02	0.255	1.24	1.24	< 0.01
103: AMQ-ENV15-121	0.31	147	476	0.047	0.05	< 0.01	1.78	8.65	8.65	< 0.01
104: AMQ-ENV15-068	0.31	64.1	206	0.045	0.04	0.01	0.619	2.84	2.79	0.01
105: AMQ-ENV15-051	0.31	166	537	0.016	0.02	< 0.01	1.99	9.89	9.89	< 0.01
106: AMQ-ENV15-071	0.31	161	522	0.016	0.02	< 0.01	1.92	9.40	9.40	< 0.01
107: AMQ-ENV15-084	0.31	142	458	0.012	0.01	< 0.01	1.80	8.72	8.72	< 0.01
108: AMQ-ENV15-083	2.50	96.2	39.5	0.218	0.14	0.08	1.03	4.86	4.86	< 0.01
109: AMQ-ENV15-050	0.31	77.1	250	0.031	0.03	< 0.01	0.632	2.94	2.94	< 0.01
110: AMQ-ENV15-044	0.31	52.8	171	< 0.005	< 0.01	< 0.01	0.407	1.80	1.80	< 0.01



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LR Report :

CA15166-AUG15

Sample ID	AP t CaCO ₃ /1000 t	Net NP t CaCO ₃ /1000 t	NP/AP ratio	Sulphur (total) %	Acid Leachable SO ₄ -S %	Sulphide %	Carbon (total) %	Carbonate %	Carbonate (graphite corrected) %	C(g) %
111: AMQ-ENV15-070	0.31	53.9	175	< 0.005	< 0.01	< 0.01	0.452	2.14	2.14	< 0.01
112: AMQ-ENV15-072	0.31	29.4	95.8	0.012	0.01	< 0.01	0.154	0.674	0.674	< 0.01
113: AMQ-ENV15-120	6.25	10.6	2.69	0.525	0.32	0.20	0.108	0.230	0.230	< 0.01
114: AMQ-ENV15-113	5.94	14.3	3.40	0.372	0.18	0.19	0.139	0.385	0.385	< 0.01
115: AMQ-ENV15-052	0.31	106	342	0.026	0.03	< 0.01	0.954	4.54	4.54	< 0.01
116: AMQ-ENV15-060	4.38	8.72	2.99	0.355	0.22	0.14	0.070	0.145	0.145	< 0.01
117: AMQ-ENV15-062	0.31	184	591	0.036	0.03	0.01	2.33	11.2	11.2	< 0.01
118: AMQ-ENV15-063	2.19	13.0	6.95	0.311	0.24	0.07	0.086	0.195	0.195	< 0.01
119: AMQ-ENV15-114	0.94	25.2	27.8	0.051	0.02	0.03	0.080	0.270	0.270	< 0.01
120: AMQ-ENV15-078	3.75	39.6	11.6	0.157	0.04	0.12	0.375	1.49	1.49	< 0.01
121: AMQ-ENV15-043	50.0	-17.5	0.65	3.97	2.37	1.60	1.34	4.98	< 0.025	1.02
122: AMQ-ENV15-067	84.4	-11.0	0.87	2.60	< 0.01	2.70	1.72	4.29	< 0.025	0.88
123: AMQ-ENV15-061	7.19	14.1	2.96	0.486	0.26	0.23	0.163	0.395	0.395	< 0.01

Brian Graham B.Sc.
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Environmental Services, Analytical



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28-August-2015

Date Rec. : 13 August 2015
LR Report: CA15167-AUG15
Reference: OP-460193-J

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %
5: AMQ-ENV15-028	42.8	8.32	12.7	13.9	12.1	0.44	1.21	0.39	0.04	0.42	0.35	0.04	7.06	99.8
6: AMQ-ENV15-029	40.8	7.28	10.8	23.8	4.34	0.05	0.14	0.40	0.02	0.24	0.36	0.02	11.8	100.1
7: AMQ-ENV15-030	39.2	6.80	10.6	25.9	4.15	0.03	0.01	0.32	0.03	0.14	0.38	0.02	12.5	100.0
8: AMQ-ENV15-016	44.8	6.54	16.6	11.8	8.70	0.12	1.38	0.31	0.03	0.46	0.36	0.02	7.21	98.4
9: AMQ-ENV15-011	47.9	8.75	11.9	12.5	11.3	0.72	2.52	0.41	0.06	0.36	0.36	0.03	2.99	99.7
10: AMQ-ENV15-014	40.7	8.30	11.2	24.4	3.25	0.03	0.60	0.39	0.03	0.12	0.44	0.04	10.6	100.1
11: AMQ-ENV15-090	44.6	8.00	13.9	15.5	8.79	0.39	1.72	0.39	0.03	0.45	0.39	0.02	5.28	99.5
12: AMQ-ENV15-026	40.4	5.56	9.40	22.1	9.51	0.06	0.31	0.24	0.01	0.27	0.31	< 0.01	10.9	99.2
13: AMQ-ENV15-055	42.2	7.30	10.9	24.5	4.58	0.11	0.04	0.38	0.02	0.16	0.36	0.02	9.25	99.8
14: AMQ-ENV15-021	47.3	6.27	10.8	20.2	6.89	0.33	0.48	0.32	0.12	0.23	0.30	0.02	6.16	99.5
15: AMQ-ENV15-027	40.2	7.60	31.1	6.03	9.04	0.61	1.03	0.37	0.02	1.17	0.38	0.02	1.70	99.2
16: AMQ-ENV15-040	39.7	6.75	9.90	24.0	6.38	0.04	0.05	0.32	0.01	0.17	0.32	0.02	12.0	99.6
17: AMQ-ENV15-041	43.0	7.58	11.0	25.6	2.07	0.02	0.05	0.40	0.03	0.11	0.33	0.02	9.67	99.9
18: AMQ-ENV15-034	35.1	8.66	34.6	6.07	8.52	0.67	0.43	0.39	0.03	1.43	0.38	0.03	1.94	98.3
19: AMQ-ENV15-045	42.7	9.23	19.8	9.58	10.9	0.58	0.78	0.45	0.06	0.94	0.39	0.03	4.03	99.5
20: AMQ-ENV15-038	40.0	8.71	30.5	5.95	7.24	0.79	1.41	0.45	0.03	1.10	0.35	0.03	2.36	99.0
21: AMQ-ENV15-039	42.5	5.64	9.85	21.0	9.60	0.30	1.66	0.28	0.19	0.27	0.26	0.02	7.87	99.4
22: AMQ-ENV15-035	36.6	5.81	38.4	6.14	8.97	0.45	0.50	0.25	0.03	1.33	0.22	0.01	1.04	99.7
23: AMQ-ENV15-010	38.7	9.75	29.8	5.10	11.1	0.42	1.71	0.44	0.04	1.06	0.43	0.02	1.63	100.2
24: AMQ-ENV15-086	45.2	8.06	11.1	18.9	8.14	0.28	1.74	0.39	0.03	0.23	0.36	0.03	5.35	99.8
25: AMQ-ENV15-099	37.9	6.05	9.77	25.5	5.77	0.03	0.02	0.32	0.06	0.18	0.29	0.02	14.1	100.0
26: AMQ-ENV15-089	41.0	8.21	26.7	6.27	8.64	0.58	1.82	0.42	0.03	0.91	0.30	0.03	2.05	97.0
27: AMQ-ENV15-020	56.1	7.14	9.62	14.1	3.75	0.73	1.99	0.35	0.17	0.14	0.17	< 0.01	5.04	99.3



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LR Report :

CA15167-AUG15

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %
28: AMQ-ENV15-033	48.9	9.16	8.60	16.0	3.63	1.90	2.76	0.45	0.21	0.14	0.21	0.02	7.82	99.8
29: AMQ-ENV15-109	44.0	7.56	8.88	17.6	5.90	0.93	2.17	0.41	0.21	0.17	0.23	0.02	11.4	99.5
30: AMQ-ENV15-081	56.8	14.1	8.08	6.06	3.27	2.46	4.15	0.62	0.24	0.11	0.06	0.02	3.39	99.4
31: AMQ-ENV15-076	63.6	4.75	9.74	7.85	2.45	0.55	1.30	0.21	0.12	0.13	0.10	0.01	6.49	97.3
32: AMQ-ENV15-104	48.3	9.06	10.2	17.0	5.55	1.02	2.25	0.53	0.24	0.16	0.27	0.02	4.77	99.4
33: AMQ-ENV15-094	47.8	9.79	10.7	14.2	7.50	1.25	1.98	0.62	0.32	0.20	0.18	0.02	4.90	99.5
34: AMQ-ENV15-024	54.3	11.0	8.44	10.4	5.94	2.17	2.88	0.58	0.28	0.15	0.14	0.01	3.14	99.4
35: AMQ-ENV15-023	55.4	11.5	9.02	8.73	5.49	2.05	3.66	0.68	0.27	0.16	0.10	0.02	2.77	99.8
36: AMQ-ENV15-022	50.8	9.81	9.98	14.3	6.18	1.46	3.15	0.69	0.43	0.16	0.19	0.03	4.22	101.4
37: AMQ-ENV15-042	60.0	18.5	5.65	2.55	1.99	3.39	3.61	0.58	0.17	0.09	0.03	0.02	3.14	99.7
38: AMQ-ENV15-032	52.7	11.7	9.57	9.71	5.79	2.17	3.39	0.71	0.29	0.17	0.12	0.02	2.98	99.3
39: AMQ-ENV15-003	49.7	10.3	10.7	12.8	6.81	1.34	2.16	0.69	0.28	0.19	0.16	0.03	4.20	99.4
40: AMQ-ENV15-001	59.1	13.0	7.84	6.80	2.59	2.53	3.76	0.54	0.20	0.10	0.11	0.01	2.86	99.4
41: AMQ-ENV15-047	47.4	6.82	10.3	21.3	4.72	0.23	2.07	0.39	0.18	0.16	0.25	0.02	5.84	99.8
42: AMQ-ENV15-006	47.2	8.79	10.1	18.8	4.56	0.94	2.61	0.47	0.23	0.15	0.24	0.02	5.97	100.1
43: AMQ-ENV15-008	74.0	3.75	13.3	1.44	1.43	0.07	0.69	0.10	0.08	0.25	0.06	< 0.01	3.70	98.9
44: AMQ-ENV15-009	76.4	1.35	14.5	2.02	1.70	0.10	0.36	0.04	0.13	0.36	0.05	< 0.01	2.21	99.2
45: AMQ-ENV15-012	58.1	15.1	8.17	4.89	2.79	4.21	2.60	0.69	0.26	0.11	0.07	0.02	2.64	99.7
46: AMQ-ENV15-013	50.9	9.61	9.42	15.1	4.56	2.11	2.76	0.54	0.24	0.14	0.19	0.03	3.85	99.4
47: AMQ-ENV15-004	54.2	10.5	9.22	12.8	4.79	2.05	3.10	0.56	0.24	0.15	0.18	0.03	3.48	101.3
48: AMQ-ENV15-005	46.3	7.42	10.3	20.7	4.38	0.19	2.22	0.43	0.20	0.16	0.27	0.02	6.76	99.4
49: AMQ-ENV15-091	70.7	7.69	12.3	1.81	0.73	0.52	1.95	0.16	0.13	0.22	0.05	< 0.01	3.43	99.7
50: AMQ-ENV15-101	49.3	14.3	11.8	8.39	3.55	2.37	2.08	0.72	0.26	0.14	0.10	0.02	6.14	99.2
51: AMQ-ENV15-102	56.8	14.8	8.65	4.72	3.27	4.17	2.25	0.72	0.26	0.13	0.06	0.02	3.02	98.9
52: AMQ-ENV15-103	47.4	9.63	11.5	13.4	7.96	0.77	2.83	0.73	0.33	0.21	0.16	0.03	4.62	99.6
53: AMQ-ENV15-098	62.1	17.4	6.14	2.10	1.28	3.21	3.87	0.54	0.17	0.07	0.03	0.02	2.54	99.4
54: AMQ-ENV15-093	59.7	13.1	6.59	5.75	2.55	3.19	2.68	0.47	0.15	0.10	0.07	0.01	5.11	99.5
55: AMQ-ENV15-097	70.8	13.1	4.43	1.71	1.46	2.21	3.41	0.34	0.12	0.08	0.03	< 0.01	2.21	99.9
56: AMQ-ENV15-110	64.0	14.5	5.64	2.40	2.35	3.31	3.20	0.48	0.15	0.07	0.04	0.01	3.21	99.3
57: AMQ-ENV15-106	67.7	14.4	4.89	1.56	2.28	2.03	3.34	0.43	0.16	0.09	0.03	0.01	2.37	99.3
58: AMQ-ENV15-107	63.5	17.1	5.41	2.09	1.65	2.79	3.71	0.51	0.15	0.08	0.02	0.01	2.47	99.5
59: AMQ-ENV15-108	62.4	18.4	4.69	1.79	1.33	3.42	4.15	0.57	0.16	0.06	0.02	0.02	2.54	99.5
60: AMQ-ENV15-064	59.9	18.7	6.23	2.42	1.45	3.83	3.44	0.61	0.18	0.09	0.02	0.02	2.73	99.6
61: AMQ-ENV15-065	62.7	17.5	5.31	2.06	1.56	3.58	3.57	0.54	0.16	0.08	0.03	< 0.01	2.44	99.5
62: AMQ-ENV15-066	61.8	17.3	6.38	2.32	1.62	2.41	3.92	0.56	0.17	0.09	0.03	0.02	2.87	99.4
63: AMQ-ENV15-112	68.5	10.7	8.39	2.10	2.26	1.71	2.34	0.30	0.11	0.13	0.03	< 0.01	2.20	98.8
64: AMQ-ENV15-049	50.1	10.2	10.7	12.3	6.85	1.16	2.50	0.68	0.28	0.20	0.15	0.02	4.49	99.7
65: AMQ-ENV15-048	60.2	13.7	11.5	2.42	2.48	0.88	3.53	0.28	0.13	0.19	< 0.01	< 0.01	3.76	99.1
66: AMQ-ENV15-025	64.9	3.30	18.0	2.86	3.84	0.18	1.19	0.09	0.12	0.28	< 0.01	< 0.01	3.06	97.8



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Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %
67: AMQ-ENV15-054	63.9	11.4	9.67	1.89	1.50	1.34	3.05	0.34	0.18	0.21	< 0.01	< 0.01	5.03	98.5
68: AMQ-ENV15-073	67.8	14.5	5.93	1.82	1.36	2.07	3.39	0.32	0.09	0.11	< 0.01	< 0.01	2.05	99.4
69: AMQ-ENV15-075	65.0	15.6	5.20	1.50	2.10	2.96	3.65	0.44	0.19	0.12	< 0.01	< 0.01	2.51	99.3
70: AMQ-ENV15-074	62.2	17.3	5.72	2.06	1.55	3.25	3.49	0.55	0.18	0.07	0.01	0.02	2.66	99.1
71: AMQ-ENV15-002	60.8	14.6	9.13	2.78	2.71	3.21	2.54	0.93	0.29	0.11	0.02	0.02	2.75	99.8
72: AMQ-ENV15-100	53.1	17.0	11.5	4.01	1.66	2.58	4.50	1.05	0.33	0.11	< 0.01	0.02	3.56	99.4
73: AMQ-ENV15-077	58.0	15.1	8.90	2.52	4.05	3.32	2.63	0.87	0.26	0.12	0.02	< 0.01	3.69	99.5
74: AMQ-ENV15-019	60.9	6.35	19.6	3.22	2.17	0.36	1.56	0.14	0.10	0.40	0.05	< 0.01	4.40	99.3
75: AMQ-ENV15-046	66.3	2.48	20.7	2.64	1.55	0.08	0.63	0.06	0.12	0.27	< 0.01	< 0.01	3.59	98.4
76: AMQ-ENV15-037	77.1	3.97	10.2	1.26	0.17	0.05	1.24	0.08	0.08	0.20	< 0.01	< 0.01	4.48	98.8
77: AMQ-ENV15-007	54.3	8.63	12.7	8.92	2.86	1.42	2.56	0.36	0.19	0.19	0.08	0.01	5.73	98.0
78: AMQ-ENV15-092	66.1	2.26	19.5	2.86	1.81	0.11	0.66	0.08	0.04	0.84	0.03	< 0.01	3.94	98.2
79: AMQ-ENV15-122	40.5	6.82	11.2	18.1	9.54	0.35	1.83	0.35	0.07	0.26	0.32	0.02	9.72	99.1
80: AMQ-ENV15-088	65.9	5.08	18.4	1.90	1.25	0.21	1.03	0.13	0.08	0.29	< 0.01	0.01	4.19	98.5
81: AMQ-ENV15-095	65.6	15.4	4.11	1.50	1.44	2.47	4.27	0.41	0.13	0.09	0.01	< 0.01	3.03	98.5
82: AMQ-ENV15-096	61.3	9.92	15.6	2.06	2.09	0.58	2.62	0.33	0.14	0.22	< 0.01	< 0.01	3.52	98.4
83: AMQ-ENV15-085	83.6	4.07	7.06	1.28	0.58	0.10	1.34	0.11	0.02	0.07	< 0.01	< 0.01	1.88	100.1
84: AMQ-ENV15-058	62.9	13.0	11.0	2.22	1.40	0.96	3.55	0.28	0.13	0.26	0.03	< 0.01	4.11	99.8
85: AMQ-ENV15-056	61.3	18.1	5.70	2.17	1.40	2.46	4.11	0.58	0.19	0.09	0.01	0.02	3.31	99.5
86: AMQ-ENV15-115	71.1	2.07	18.4	1.91	2.19	0.17	0.54	0.06	0.15	0.26	0.02	< 0.01	2.80	99.6
87: AMQ-ENV15-111	39.8	7.10	10.8	23.1	7.44	0.13	0.05	0.40	0.03	0.22	0.34	0.02	10.4	99.9
88: AMQ-ENV15-124	46.3	5.16	9.44	19.1	10.1	0.27	1.46	0.26	0.04	0.26	0.25	0.01	6.84	99.4
89: AMQ-ENV15-123	43.2	6.04	9.14	19.9	6.31	0.46	1.09	0.31	0.16	0.17	0.24	< 0.01	12.7	99.6
90: AMQ-ENV15-116	69.5	12.6	3.81	0.93	1.36	3.06	3.61	0.45	0.11	0.05	< 0.01	< 0.01	4.30	99.8
91: AMQ-ENV15-130	65.9	12.8	4.78	1.49	1.15	2.32	3.57	0.42	0.13	0.06	0.06	< 0.01	6.76	99.5
92: AMQ-ENV15-131	74.0	11.5	3.12	1.16	1.18	2.41	3.52	0.38	0.10	0.03	0.02	< 0.01	2.59	100.1
93: AMQ-ENV15-132	73.9	11.5	2.90	1.11	1.09	2.76	3.57	0.36	0.09	0.07	0.02	< 0.01	1.74	99.0
94: AMQ-ENV15-117	67.7	12.2	5.37	1.67	2.14	2.90	3.17	0.65	0.18	0.08	0.02	0.01	2.50	98.5
95: AMQ-ENV15-118	65.0	10.9	5.84	4.99	2.91	2.10	2.85	0.53	0.18	0.11	0.08	< 0.01	4.15	99.6
96: AMQ-ENV15-119	72.7	11.0	4.00	1.89	1.54	2.44	3.11	0.43	0.15	0.04	0.07	< 0.01	2.86	100.2
97: AMQ-ENV15-125	71.1	12.4	3.67	1.15	1.21	2.73	3.95	0.37	0.11	0.05	0.04	0.01	2.73	99.5
98: AMQ-ENV15-126	72.5	11.8	3.49	1.15	1.31	2.70	3.72	0.39	0.12	0.05	0.06	< 0.01	1.78	99.0
99: AMQ-ENV15-127	73.5	12.0	3.42	0.96	1.23	2.78	3.79	0.40	0.10	0.04	0.04	< 0.01	2.15	100.5
100: AMQ-ENV15-128	73.4	12.0	3.16	1.35	1.35	2.92	3.75	0.33	0.10	0.03	0.06	< 0.01	2.07	100.5
101: AMQ-ENV15-129	71.0	12.1	3.89	1.27	1.28	2.61	3.58	0.37	0.11	0.05	0.05	< 0.01	3.55	99.9
102: AMQ-ENV15-105	44.8	8.07	11.5	20.1	7.42	0.43	0.44	0.59	0.04	0.20	0.30	0.03	5.89	99.8
103: AMQ-ENV15-121	42.1	7.46	10.4	21.6	4.52	0.46	0.80	0.42	0.03	0.15	0.26	0.04	11.5	99.8
104: AMQ-ENV15-068	42.2	8.34	13.0	19.5	7.21	0.55	0.49	0.41	0.02	0.33	0.38	0.03	7.22	99.8
105: AMQ-ENV15-051	44.7	6.95	9.24	19.2	5.63	0.41	1.25	0.34	0.02	0.17	0.27	0.02	11.6	99.9



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Phone: 705-652-2000 FAX: 705-652-6365

LR Report :

CA15167-AUG15

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %
106: AMQ-ENV15-071	38.5	7.24	10.9	22.9	5.91	0.04	0.39	0.36	0.03	0.21	0.34	0.03	12.8	99.7
107: AMQ-ENV15-084	40.3	6.17	9.65	25.6	4.37	0.02	0.01	0.30	0.03	0.14	0.31	0.02	12.6	99.6
108: AMQ-ENV15-083	42.7	6.78	10.1	22.2	7.21	0.09	1.21	0.33	0.01	0.19	0.30	0.01	8.18	99.3
109: AMQ-ENV15-050	50.0	10.2	9.91	13.0	5.94	1.22	2.31	0.54	0.16	0.19	0.19	0.02	5.73	99.4
110: AMQ-ENV15-044	47.2	8.37	11.6	15.3	8.79	0.83	1.50	0.66	0.25	0.25	0.19	0.02	4.58	99.6
111: AMQ-ENV15-070	50.5	10.1	9.97	13.7	4.92	1.15	3.32	0.57	0.24	0.16	0.19	0.03	4.56	99.5
112: AMQ-ENV15-072	48.0	9.24	10.2	17.4	5.91	0.85	2.96	0.47	0.22	0.18	0.23	0.02	3.79	99.6
113: AMQ-ENV15-120	62.1	17.6	5.35	2.17	1.55	1.77	5.08	0.51	0.12	0.10	0.01	< 0.01	2.52	98.8
114: AMQ-ENV15-113	64.1	16.4	5.13	2.12	1.95	2.51	4.07	0.51	0.16	0.09	< 0.01	0.01	2.11	99.2
115: AMQ-ENV15-052	47.4	9.11	11.2	14.2	6.24	0.13	2.44	0.67	0.27	0.19	0.20	0.02	7.36	99.4
116: AMQ-ENV15-060	64.1	16.5	5.35	1.96	1.70	2.53	4.24	0.51	0.15	0.08	0.01	0.01	1.99	99.1
117: AMQ-ENV15-062	39.0	6.83	10.0	23.2	5.66	0.02	0.07	0.34	0.03	0.16	0.31	0.02	14.1	99.8
118: AMQ-ENV15-063	61.4	17.4	6.66	2.35	1.94	1.95	4.72	0.55	0.16	0.09	0.01	< 0.01	2.01	99.2
119: AMQ-ENV15-114	53.4	16.8	10.9	2.87	6.26	3.43	1.69	1.40	0.49	0.14	0.01	0.03	2.40	99.8
120: AMQ-ENV15-078	57.7	14.9	9.32	2.96	3.75	3.28	2.32	1.05	0.33	0.12	0.02	0.01	3.45	99.2
121: AMQ-ENV15-043	78.3	2.25	11.1	1.16	1.29	0.10	0.49	0.06	0.03	0.26	0.05	< 0.01	4.20	99.3
122: AMQ-ENV15-067	67.8	1.71	16.3	1.88	3.50	0.15	0.40	0.05	0.16	0.45	0.03	< 0.01	5.90	98.4
123: AMQ-ENV15-061	63.8	14.7	7.22	2.15	2.40	2.43	2.99	0.47	0.17	0.09	0.02	< 0.01	3.05	99.5

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



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - KOL 2H0

Phone: 705-652-2000 FAX: 705-652-6365

Agnico Eagle Mines Limited

Attn : Serge Ouellet

10200, route de Pressac, Rouyn-Noranda

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01-September-2015

Date Rec. : 13 August 2015
LR Report: CA15168-AUG15
Reference: OP-460193-J

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	F µg/g	Hg µg/g	Al µg/g	Ag µg/g	As µg/g	Ba µg/g	Be µg/g	Bi µg/g	B µg/g	Ca µg/g	Cd µg/g	Co µg/g
3: Analysis Approval Date		31-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15
4: Analysis Approval Time		08:18	10:16	15:30	14:02	14:02	14:02	14:02	14:02	14:02	15:31	14:03	14:03
5: AMQ-ENV15-028	Date:N/A	78	< 0.05	18000	0.05	1000	58	0.19	< 0.09	5	40000	0.04	79
6: AMQ-ENV15-029	Date:N/A	26	< 0.05	12000	0.03	300	7.4	0.06	< 0.09	2	32000	0.07	71
7: AMQ-ENV15-030	Date:N/A	8	< 0.05	11000	0.09	300	1.3	0.08	< 0.09	1	31000	0.13	57
8: AMQ-ENV15-016	Date:N/A	79	< 0.05	27000	0.28	1200	120	0.52	0.14	5	38000	0.04	76
9: AMQ-ENV15-011	Date:N/A	73	< 0.05	19000	0.11	830	130	0.31	< 0.09	2	18000	0.03	60
10: AMQ-ENV15-014	Date:N/A	13	< 0.05	20000	0.08	24	57	0.11	< 0.09	< 1	24000	0.04	29
11: AMQ-ENV15-090	Date:N/A	64	< 0.05	20000	0.43	1400	95	0.16	< 0.09	1	20000	0.07	84
12: AMQ-ENV15-026	Date:N/A	28	< 0.05	12000	0.10	2400	22	0.18	0.10	1	47000	0.07	89
13: AMQ-ENV15-055	Date:N/A	7	< 0.05	16000	0.04	320	3.6	0.07	< 0.09	1	21000	0.03	80
14: AMQ-ENV15-021	Date:N/A	94	< 0.05	16000	0.07	550	50	0.29	< 0.09	< 1	21000	0.06	63
15: AMQ-ENV15-027	Date:N/A	57	< 0.05	15000	1.1	1400	59	0.12	0.26	2	14000	0.03	73
16: AMQ-ENV15-040	Date:N/A	8	< 0.05	14000	0.13	26	5.2	0.06	< 0.09	< 1	45000	0.04	23
17: AMQ-ENV15-041	Date:N/A	6	< 0.05	15000	< 0.01	90	4.7	0.06	< 0.09	< 1	15000	0.06	38
18: AMQ-ENV15-034	Date:N/A	32	< 0.05	19000	0.30	800	18	0.11	0.29	1	15000	0.03	71
19: AMQ-ENV15-045	Date:N/A	84	< 0.05	21000	0.09	1200	50	0.10	0.10	1	25000	0.05	81
20: AMQ-ENV15-038	Date:N/A	123	< 0.05	25000	0.11	580	78	0.17	< 0.09	2	17000	0.03	66
21: AMQ-ENV15-039	Date:N/A	229	< 0.05	20000	0.05	640	88	0.24	< 0.09	3	32000	0.03	55
22: AMQ-ENV15-035	Date:N/A	56	< 0.05	8900	0.18	320	17	0.10	0.12	1	11000	< 0.02	47
23: AMQ-ENV15-010	Date:N/A	116	< 0.05	16000	0.47	1600	120	0.22	0.15	2	16000	0.04	75
24: AMQ-ENV15-086	Date:N/A	74	< 0.05	26000	0.41	920	110	0.32	< 0.09	< 1	14000	0.04	73



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LR Report :

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Sample ID	Sample Date & Time	F µg/g	Hg µg/g	Al µg/g	Ag µg/g	As µg/g	Ba µg/g	Be µg/g	Bi µg/g	B µg/g	Ca µg/g	Cd µg/g	Co µg/g
25: AMQ-ENV15-099	Date:N/A	18	< 0.05	11000	0.03	770	3.2	0.10	< 0.09	2	40000	0.04	46
26: AMQ-ENV15-089	Date:N/A	72	< 0.05	22000	1.5	1300	120	0.16	< 0.09	1	21000	0.08	75
27: AMQ-ENV15-020	Date:N/A	145	< 0.05	21000	0.13	79	350	0.67	0.10	3	13000	0.04	21
28: AMQ-ENV15-033	Date:N/A	149	< 0.05	26000	0.11	80	500	0.94	< 0.09	< 1	27000	0.11	27
29: AMQ-ENV15-109	Date:N/A	102	< 0.05	24000	0.05	230	320	0.90	< 0.09	< 1	44000	0.12	40
30: AMQ-ENV15-081	Date:N/A	279	< 0.05	23000	0.12	14	120	0.55	0.18	3	12000	0.06	19
31: AMQ-ENV15-076	Date:N/A	144	< 0.05	12000	0.39	170	160	0.62	0.39	7	18000	0.06	22
32: AMQ-ENV15-104	Date:N/A	163	< 0.05	30000	0.05	2.6	500	0.67	< 0.09	1	13000	0.04	27
33: AMQ-ENV15-094	Date:N/A	277	< 0.05	31000	0.11	14	370	0.52	< 0.09	2	18000	0.05	29
34: AMQ-ENV15-024	Date:N/A	261	< 0.05	21000	0.10	3.4	150	0.49	0.17	2	10000	0.04	18
35: AMQ-ENV15-023	Date:N/A	228	< 0.05	25000	0.11	1.8	280	0.55	0.10	2	11000	0.05	18
36: AMQ-ENV15-022	Date:N/A	348	< 0.05	32000	0.10	2.5	900	0.95	0.11	1	19000	0.06	27
37: AMQ-ENV15-042	Date:N/A	155	< 0.05	20000	0.15	18	110	0.34	0.27	3	5800	0.08	14
38: AMQ-ENV15-032	Date:N/A	249	< 0.05	25000	0.09	2.9	240	0.55	< 0.09	1	12000	0.03	20
39: AMQ-ENV15-003	Date:N/A	266	< 0.05	30000	0.08	8.8	260	0.55	< 0.09	1	15000	0.09	24
40: AMQ-ENV15-001	Date:N/A	202	< 0.05	27000	0.06	16	300	0.68	0.16	8	6600	0.04	22
41: AMQ-ENV15-047	Date:N/A	119	< 0.05	28000	0.07	20	300	0.59	< 0.09	2	13000	0.03	31
42: AMQ-ENV15-006	Date:N/A	152	< 0.05	30000	0.04	16	470	0.80	< 0.09	4	12000	0.02	28
43: AMQ-ENV15-008	Date:N/A	116	< 0.05	12000	0.11	46	19	0.62	0.29	5	8500	0.34	4.8
44: AMQ-ENV15-009	Date:N/A	171	< 0.05	4200	0.16	1100	10	0.45	0.14	4	10000	0.03	2.3
45: AMQ-ENV15-012	Date:N/A	272	< 0.05	27000	0.08	13	340	0.52	< 0.09	2	8200	0.22	19
46: AMQ-ENV15-013	Date:N/A	152	< 0.05	28000	0.06	2.7	650	0.79	< 0.09	< 1	13000	0.04	26
47: AMQ-ENV15-004	Date:N/A	171	< 0.05	30000	0.06	3.6	600	0.81	0.10	2	10000	0.04	25
48: AMQ-ENV15-005	Date:N/A	127	< 0.05	28000	0.05	12	400	0.71	< 0.09	2	18000	0.03	27
49: AMQ-ENV15-091	Date:N/A	134	< 0.05	17000	0.18	690	52	0.56	0.23	9	3000	0.04	4.2
50: AMQ-ENV15-101	Date:N/A	228	< 0.05	42000	0.08	9.2	280	0.91	0.12	1	25000	0.13	21
51: AMQ-ENV15-102	Date:N/A	230	< 0.05	31000	0.07	7.8	400	0.37	< 0.09	2	15000	0.10	22
52: AMQ-ENV15-103	Date:N/A	263	< 0.05	33000	0.04	1.7	430	0.55	< 0.09	1	21000	0.03	25
53: AMQ-ENV15-098	Date:N/A	165	< 0.05	20000	0.11	38	110	0.41	0.21	7	3600	0.09	12
54: AMQ-ENV15-093	Date:N/A	176	< 0.05	22000	0.24	88	150	0.35	0.52	3	19000	0.44	19
55: AMQ-ENV15-097	Date:N/A	141	< 0.05	14000	0.21	53	100	0.45	0.40	6	6400	0.43	7.3
56: AMQ-ENV15-110	Date:N/A	147	< 0.05	19000	0.10	8.1	110	0.33	0.25	5	14000	0.09	12
57: AMQ-ENV15-106	Date:N/A	198	< 0.05	15000	0.08	3.0	110	0.36	0.16	3	5600	0.08	8.4
58: AMQ-ENV15-107	Date:N/A	187	< 0.05	20000	0.08	20	100	0.26	0.18	3	5200	0.06	12
59: AMQ-ENV15-108	Date:N/A	186	< 0.05	17000	0.12	24	120	0.29	0.27	5	4100	0.14	15
60: AMQ-ENV15-064	Date:N/A	153	< 0.05	21000	0.14	37	89	0.32	0.22	7	3100	0.09	14
61: AMQ-ENV15-065	Date:N/A	176	< 0.05	19000	0.28	29	95	0.31	0.57	7	4200	0.14	12



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LR Report :

CA15168-AUG15

Sample ID	Sample Date & Time	F µg/g	Hg µg/g	Al µg/g	Ag µg/g	As µg/g	Ba µg/g	Be µg/g	Bi µg/g	B µg/g	Ca µg/g	Cd µg/g	Co µg/g
62: AMQ-ENV15-066	Date:N/A	171	< 0.05	22000	0.14	27	110	0.38	0.22	8	4200	0.12	15
63: AMQ-ENV15-112	Date:N/A	351	< 0.05	15000	0.27	46	52	0.25	0.42	3	3300	0.18	6.6
64: AMQ-ENV15-049	Date:N/A	219	< 0.05	27000	0.05	2.5	180	0.53	< 0.09	2	14000	0.03	21
65: AMQ-ENV15-048	Date:N/A	181	< 0.05	26000	0.09	28	48	0.76	0.25	4	14000	0.08	3.5
66: AMQ-ENV15-025	Date:N/A	173	< 0.05	7300	0.16	88	14	1.4	0.32	3	26000	0.26	3.0
67: AMQ-ENV15-054	Date:N/A	222	< 0.05	13000	0.97	86	76	0.39	0.37	7	10000	0.06	12
68: AMQ-ENV15-073	Date:N/A	136	< 0.05	19000	0.14	44	88	0.46	0.25	7	2500	0.11	5.8
69: AMQ-ENV15-075	Date:N/A	206	< 0.05	11000	0.34	100	65	0.44	0.51	7	7200	0.18	7.9
70: AMQ-ENV15-074	Date:N/A	180	< 0.05	18000	0.16	27	66	0.25	0.37	3	5900	0.11	13
71: AMQ-ENV15-002	Date:N/A	247	< 0.05	26000	0.08	49	130	0.47	0.11	3	7900	0.12	17
72: AMQ-ENV15-100	Date:N/A	268	< 0.05	34000	0.19	15	140	0.48	0.29	4	11000	0.41	16
73: AMQ-ENV15-077	Date:N/A	228	< 0.05	26000	0.04	19	190	0.39	< 0.09	3	22000	0.08	15
74: AMQ-ENV15-019	Date:N/A	175	< 0.05	12000	0.23	350	34	0.96	0.37	13	7300	0.07	8.5
75: AMQ-ENV15-046	Date:N/A	245	< 0.05	11000	0.23	56	14	1.4	0.29	15	11000	0.07	3.0
76: AMQ-ENV15-037	Date:N/A	202	< 0.05	7000	0.34	130	16	0.46	0.33	2	1200	0.03	5.3
77: AMQ-ENV15-007	Date:N/A	170	< 0.05	24000	0.43	90	230	1.0	0.22	3	18000	0.14	19
78: AMQ-ENV15-092	Date:N/A	74	< 0.05	8900	0.60	530	21	0.42	0.19	4	12000	0.06	18
79: AMQ-ENV15-122	Date:N/A	65	< 0.05	17000	0.55	560	50	1.00	0.49	3	7300	0.71	6.5
80: AMQ-ENV15-088	Date:N/A	152	< 0.05	27000	0.30	550	170	0.17	< 0.09	< 1	61000	0.09	65
81: AMQ-ENV15-095	Date:N/A	163	< 0.05	8300	0.19	170	82	0.40	0.26	3	9200	0.72	9.5
82: AMQ-ENV15-096	Date:N/A	230	< 0.05	28000	0.17	57	83	1.0	0.32	3	12000	0.12	6.8
83: AMQ-ENV15-085	Date:N/A	150	< 0.05	7900	2.1	550	32	0.30	< 0.09	2	4200	0.95	4.1
84: AMQ-ENV15-058	Date:N/A	176	< 0.05	16000	0.23	110	74	0.57	0.27	10	4300	0.05	6.6
85: AMQ-ENV15-056	Date:N/A	189	< 0.05	18000	0.21	41	100	0.29	0.32	6	4900	0.09	13
86: AMQ-ENV15-115	Date:N/A	201	< 0.05	9200	0.14	31	15	0.70	0.26	4	13000	0.03	3.3
87: AMQ-ENV15-111	Date:N/A	17	< 0.05	14000	0.17	480	2.7	0.09	< 0.09	3	29000	0.03	66
88: AMQ-ENV15-124	Date:N/A	110	< 0.05	18000	0.06	910	160	0.52	< 0.09	1	37000	0.06	47
89: AMQ-ENV15-123	Date:N/A	93	< 0.05	19000	0.09	360	220	0.76	< 0.09	1	46000	0.13	46
90: AMQ-ENV15-116	Date:N/A	75	< 0.05	7000	< 0.01	5.4	27	0.28	0.13	< 1	1100	0.05	4.5
91: AMQ-ENV15-130	Date:N/A	100	< 0.05	14000	0.06	6.8	96	1.00	0.43	3	1800	0.04	7.6
92: AMQ-ENV15-131	Date:N/A	100	< 0.05	6900	0.01	3.1	45	0.40	0.20	1	1200	0.03	4.9
93: AMQ-ENV15-132	Date:N/A	95	< 0.05	5400	< 0.01	2.8	32	0.36	0.20	< 1	1100	0.03	4.2
94: AMQ-ENV15-117	Date:N/A	134	< 0.05	9400	0.01	5.2	50	0.35	0.12	1	2400	0.05	7.9
95: AMQ-ENV15-118	Date:N/A	139	< 0.05	15000	0.02	5.5	120	0.47	0.15	1	2700	0.02	13
96: AMQ-ENV15-119	Date:N/A	115	< 0.05	9600	0.01	5.2	72	0.37	0.15	3	2000	0.04	6.8
97: AMQ-ENV15-125	Date:N/A	98	< 0.05	8200	0.02	3.5	60	0.54	0.30	2	1700	0.04	5.2
98: AMQ-ENV15-126	Date:N/A	109	< 0.05	8900	0.04	2.5	65	0.51	0.24	2	2000	0.04	5.4



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LR Report :

CA15168-AUG15

Sample ID	Sample Date & Time	F µg/g	Hg µg/g	Al µg/g	Ag µg/g	As µg/g	Ba µg/g	Be µg/g	Bi µg/g	B µg/g	Ca µg/g	Cd µg/g	Co µg/g
99: AMQ-ENV15-127	Date:N/A	108	< 0.05	7900	0.03	2.9	60	0.53	0.24	2	1800	0.03	4.8
100: AMQ-ENV15-128	Date:N/A	92	< 0.05	7100	0.01	2.9	58	0.38	0.15	2	1500	0.04	4.6
101: AMQ-ENV15-129	Date:N/A	104	< 0.05	9200	0.02	5.2	64	0.59	0.31	2	1500	0.04	6.9
102: AMQ-ENV15-105	Date:N/A	41	< 0.05	17000	0.10	680	44	0.17	< 0.09	1	9700	0.02	51
103: AMQ-ENV15-121	Date:N/A	43	< 0.05	17000	0.16	490	83	0.31	< 0.09	1	33000	0.19	53
104: AMQ-ENV15-068	Date:N/A	43	< 0.05	22000	0.02	490	98	0.09	< 0.09	1	16000	0.03	70
105: AMQ-ENV15-051	Date:N/A	65	< 0.05	20000	0.05	690	120	0.62	< 0.09	< 1	40000	0.09	57
106: AMQ-ENV15-071	Date:N/A	24	< 0.05	17000	0.10	250	32	0.19	< 0.09	< 1	42000	0.11	56
107: AMQ-ENV15-084	Date:N/A	5	< 0.05	12000	0.04	300	2.4	0.05	< 0.09	< 1	34000	0.10	57
108: AMQ-ENV15-083	Date:N/A	59	< 0.05	23000	0.06	310	84	0.35	< 0.09	< 1	33000	0.06	60
109: AMQ-ENV15-050	Date:N/A	170	< 0.05	33000	0.09	440	300	0.72	< 0.09	1	25000	0.11	41
110: AMQ-ENV15-044	Date:N/A	241	< 0.05	27000	0.03	4.4	400	0.43	< 0.09	1	19000	0.04	23
111: AMQ-ENV15-070	Date:N/A	170	< 0.05	37000	0.05	34	670	0.98	< 0.09	2	20000	0.06	30
112: AMQ-ENV15-072	Date:N/A	200	< 0.05	34000	0.03	280	440	0.83	< 0.09	1	8700	0.04	41
113: AMQ-ENV15-120	Date:N/A	185	< 0.05	17000	0.45	130	120	0.68	0.14	5	5500	0.14	12
114: AMQ-ENV15-113	Date:N/A	198	< 0.05	17000	0.31	93	120	0.31	0.40	3	7400	0.19	12
115: AMQ-ENV15-052	Date:N/A	193	< 0.05	39000	0.01	93	540	0.83	< 0.09	< 1	37000	0.06	38
116: AMQ-ENV15-060	Date:N/A	216	< 0.05	18000	0.16	84	99	0.25	0.29	2	4400	0.10	12
117: AMQ-ENV15-062	Date:N/A	10	< 0.05	15000	0.06	510	6.7	0.10	< 0.09	< 1	43000	0.13	51
118: AMQ-ENV15-063	Date:N/A	227	< 0.05	25000	0.14	59	150	0.14	0.16	2	5800	0.06	13
119: AMQ-ENV15-114	Date:N/A	318	< 0.05	28000	0.03	13	240	0.54	< 0.09	3	11000	0.06	19
120: AMQ-ENV15-078	Date:N/A	224	< 0.05	28000	0.06	12	120	0.42	< 0.09	4	18000	0.11	16
121: AMQ-ENV15-043	Date:N/A	107	< 0.05	8700	1.4	120	31	0.58	0.30	2	9600	0.56	4.4
122: AMQ-ENV15-067	Date:N/A	192	< 0.05	7700	0.35	28	39	0.82	0.32	2	27000	0.20	4.4
123: AMQ-ENV15-061	Date:N/A	212	< 0.05	20000	0.08	17	95	0.23	0.21	3	8200	0.05	12

Sample ID	Cr µg/g	Cu µg/g	Fe µg/g	K µg/g	Li µg/g	Mg µg/g	Mn µg/g	Mo µg/g	Na µg/g	Ni µg/g	P µg/g	Pb µg/g	Sb µg/g
3: Analysis Approval Date	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15
4: Analysis Approval Time	14:03	14:03	15:31	15:31	14:04	15:31	14:04	14:04	15:32	14:04	15:32	14:04	14:04
5: AMQ-ENV15-028	810	7.6	35000	9400	28	25000	960	0.6	140	720	160	1.4	4.4
6: AMQ-ENV15-029	610	8.3	23000	830	9	31000	1100	0.3	20	240	91	0.53	< 0.8
7: AMQ-ENV15-030	640	5.1	25000	74	3	35000	760	0.3	19	260	110	0.82	< 0.8
8: AMQ-ENV15-016	1350	60	80000	13000	19	30000	1800	0.5	55	1060	120	3.0	3.4
9: AMQ-ENV15-011	930	14	30000	18000	27	19000	670	0.5	180	600	220	0.71	3.0
10: AMQ-ENV15-014	860	33	31000	5400	13	41000	570	0.1	22	200	86	0.38	< 0.8
11: AMQ-ENV15-090	1170	64	41000	15000	25	26000	980	0.4	130	1110	110	1.5	8.5



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - KOL 2H0

Phone: 705-652-2000 FAX: 705-652-6365

LR Report :

CA15168-AUG15

Sample ID	Cr µg/g	Cu µg/g	Fe µg/g	K µg/g	Li µg/g	Mg µg/g	Mn µg/g	Mo µg/g	Na µg/g	Ni µg/g	P µg/g	Pb µg/g	Sb µg/g
12: AMQ-ENV15-026	650	9.9	20000	2800	5	30000	1100	0.4	27	1370	63	2.5	3.5
13: AMQ-ENV15-055	910	16	26000	310	4	36000	510	0.2	18	370	89	0.61	1.5
14: AMQ-ENV15-021	850	28	27000	4000	13	25000	540	0.4	45	510	490	1.8	2.7
15: AMQ-ENV15-027	1090	47	110000	7600	17	9400	1700	0.4	270	1020	90	2.2	4.6
16: AMQ-ENV15-040	730	15	22000	410	5	32000	680	< 0.1	15	230	74	0.80	< 0.8
17: AMQ-ENV15-041	680	5.5	22000	530	9	31000	450	< 0.1	14	170	110	0.41	< 0.8
18: AMQ-ENV15-034	1250	64	130000	2400	9	11000	2400	0.6	270	930	110	1.3	3.1
19: AMQ-ENV15-045	1170	15	68000	6000	21	16000	1900	0.3	190	920	210	1.0	5.6
20: AMQ-ENV15-038	1390	26	130000	12000	28	15000	2200	0.5	160	790	100	0.93	3.5
21: AMQ-ENV15-039	970	1.9	32000	15000	25	44000	720	0.2	96	610	810	0.52	3.3
22: AMQ-ENV15-035	820	47	150000	2800	8	5700	1300	0.5	200	620	70	0.81	1.7
23: AMQ-ENV15-010	1060	26	110000	11000	20	8100	1600	0.5	250	1030	160	1.2	5.2
24: AMQ-ENV15-086	1330	48	37000	16000	29	35000	600	0.2	47	710	97	0.79	2.5
25: AMQ-ENV15-099	540	7.6	25000	160	< 2	39000	820	0.1	19	550	220	0.58	1.9
26: AMQ-ENV15-089	980	85	100000	15000	22	13000	1800	0.5	160	940	120	4.7	5.2
27: AMQ-ENV15-020	650	36	41000	13000	19	31000	540	0.5	110	170	670	5.6	< 0.8
28: AMQ-ENV15-033	840	29	43000	24000	21	48000	730	0.6	150	200	890	4.6	< 0.8
29: AMQ-ENV15-109	830	33	42000	18000	16	51000	920	0.5	110	310	840	8.0	< 0.8
30: AMQ-ENV15-081	270	43	41000	11000	25	22000	460	1.1	300	87	990	14	< 0.8
31: AMQ-ENV15-076	420	46	58000	7000	18	23000	760	1.5	57	150	470	9.7	1.0
32: AMQ-ENV15-104	1130	35	42000	19000	27	44000	500	0.5	270	250	1000	13	< 0.8
33: AMQ-ENV15-094	720	57	43000	16000	29	38000	650	1.4	290	200	1300	8.4	< 0.8
34: AMQ-ENV15-024	490	51	31000	12000	23	25000	350	0.8	630	140	1200	8.5	< 0.8
35: AMQ-ENV15-023	360	68	37000	21000	18	23000	450	2.6	810	86	1100	9.8	< 0.8
36: AMQ-ENV15-022	810	33	45000	25000	29	44000	520	0.6	520	220	1800	11	< 0.8
37: AMQ-ENV15-042	85	22	33000	6400	16	11000	470	3.9	1000	34	580	14	< 0.8
38: AMQ-ENV15-032	450	51	39000	18000	23	27000	500	0.8	610	110	1200	3.4	< 0.8
39: AMQ-ENV15-003	640	40	43000	13000	31	35000	610	1.5	380	170	1200	14	< 0.8
40: AMQ-ENV15-001	490	42	45000	15000	31	28000	480	0.9	650	120	780	2.9	< 0.8
41: AMQ-ENV15-047	1130	46	41000	18000	29	48000	530	0.6	77	300	770	4.2	< 0.8
42: AMQ-ENV15-006	1040	36	44000	21000	35	50000	560	0.3	220	280	930	3.8	< 0.8
43: AMQ-ENV15-008	150	20	74000	2700	7	5600	950	8.3	280	24	300	4.7	1.4
44: AMQ-ENV15-009	110	15	54000	2300	2	4400	790	2.5	180	14	570	1.6	1.4
45: AMQ-ENV15-012	270	43	49000	13000	26	23000	580	2.6	1200	71	1100	22	< 0.8
46: AMQ-ENV15-013	830	52	43000	24000	26	43000	460	0.6	600	230	1000	3.2	< 0.8
47: AMQ-ENV15-004	800	42	43000	23000	30	40000	450	1.5	710	210	970	6.4	< 0.8
48: AMQ-ENV15-005	1090	17	42000	17000	27	49000	560	0.2	67	270	830	1.4	< 0.8



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LR Report :

CA15168-AUG15

Sample ID	Cr µg/g	Cu µg/g	Fe µg/g	K µg/g	Li µg/g	Mg µg/g	Mn µg/g	Mo µg/g	Na µg/g	Ni µg/g	P µg/g	Pb µg/g	Sb µg/g
49: AMQ-ENV15-091	130	21	70000	7300	12	7700	900	6.7	300	18	490	7.5	1.4
50: AMQ-ENV15-101	410	28	69000	13000	31	41000	720	0.9	440	130	1100	13	< 0.8
51: AMQ-ENV15-102	310	51	54000	14000	23	26000	690	2.0	1500	93	1100	7.4	< 0.8
52: AMQ-ENV15-103	620	44	47000	21000	31	37000	650	0.5	230	150	1400	2.7	< 0.8
53: AMQ-ENV15-098	69	35	38000	11000	18	10000	480	4.4	830	33	670	8.1	< 0.8
54: AMQ-ENV15-093	230	19	41000	7700	15	26000	510	1.8	990	97	610	80	< 0.8
55: AMQ-ENV15-097	95	25	26000	10000	13	7500	410	5.9	750	21	440	19	< 0.8
56: AMQ-ENV15-110	93	29	35000	6200	19	13000	460	1.4	1300	38	620	15	< 0.8
57: AMQ-ENV15-106	74	20	27000	8900	11	7000	420	4.3	700	20	650	11	< 0.8
58: AMQ-ENV15-107	53	25	34000	10000	16	10000	460	2.9	1000	29	590	7.5	< 0.8
59: AMQ-ENV15-108	57	32	28000	10000	14	8000	320	4.2	1200	29	530	12	< 0.8
60: AMQ-ENV15-064	57	35	38000	6700	22	12000	550	2.7	1000	38	670	7.1	< 0.8
61: AMQ-ENV15-065	70	44	32000	9100	19	9800	450	4.6	1100	34	630	22	< 0.8
62: AMQ-ENV15-066	64	53	39000	9500	21	11000	510	3.2	830	41	670	10	< 0.8
63: AMQ-ENV15-112	91	20	48000	12000	11	9200	510	7.7	900	16	450	9.0	1.0
64: AMQ-ENV15-049	580	38	40000	11000	24	33000	580	0.7	320	130	1200	2.4	< 0.8
65: AMQ-ENV15-048	14	2.7	65000	11000	21	11000	940	5.7	380	11	540	12	< 0.8
66: AMQ-ENV15-025	6.5	16	64000	5200	4	5900	870	2.3	350	8.6	500	2.5	< 0.8
67: AMQ-ENV15-054	17	140	63000	6100	16	8600	740	3.2	420	67	740	20	< 0.8
68: AMQ-ENV15-073	18	18	36000	9400	16	8800	580	2.8	630	13	360	8.6	< 0.8
69: AMQ-ENV15-075	7.3	18	32000	5700	12	5800	520	3.2	710	13	760	5.4	< 0.8
70: AMQ-ENV15-074	24	34	34000	6400	11	9400	450	2.8	730	29	660	18	< 0.8
71: AMQ-ENV15-002	58	28	55000	11000	26	16000	590	2.2	590	21	1200	26	< 0.8
72: AMQ-ENV15-100	57	15	71000	15000	28	22000	590	1.4	370	25	1400	83	< 0.8
73: AMQ-ENV15-077	55	12	54000	12000	23	14000	580	2.0	840	19	1100	11	< 0.8
74: AMQ-ENV15-019	40	16	79000	6400	11	7800	910	2.2	240	72	370	12	2.0
75: AMQ-ENV15-046	9.1	11	87000	5600	4	7400	820	2.0	280	12	470	7.4	0.9
76: AMQ-ENV15-037	6.6	52	59000	3600	7	4300	540	2.0	71	22	320	18	1.4
77: AMQ-ENV15-007	360	46	71000	17000	21	31000	910	2.6	280	130	770	11	< 0.8
78: AMQ-ENV15-092	120	26	100000	5800	4	9000	2100	1.3	130	210	160	2.6	1.7
79: AMQ-ENV15-122	15	31	120000	5200	7	8700	1100	2.2	120	29	350	6.1	1.0
80: AMQ-ENV15-088	1240	110	48000	18000	19	44000	1100	0.4	130	550	290	2.5	1.6
81: AMQ-ENV15-095	37	20	23000	5300	7	4500	480	2.3	520	33	500	7.5	< 0.8
82: AMQ-ENV15-096	32	16	93000	13000	15	9500	940	3.0	310	29	620	7.7	< 0.8
83: AMQ-ENV15-085	13	20	47000	4500	5	6300	450	2.5	100	13	74	4.1	< 0.8
84: AMQ-ENV15-058	79	19	58000	8600	14	8500	880	5.0	380	19	530	6.4	< 0.8
85: AMQ-ENV15-056	43	30	32000	5800	17	9200	490	2.8	570	34	710	15	< 0.8



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - KOL 2H0

Phone: 705-652-2000 FAX: 705-652-6365

LR Report :

CA15168-AUG15

Sample ID	Cr µg/g	Cu µg/g	Fe µg/g	K µg/g	Li µg/g	Mg µg/g	Mn µg/g	Mo µg/g	Na µg/g	Ni µg/g	P µg/g	Pb µg/g	Sb µg/g
86: AMQ-ENV15-115	73	10	69000	5200	< 2	4900	730	1.6	980	13	610	1.8	1.2
87: AMQ-ENV15-111	760	39	26000	410	5	33000	770	0.2	20	420	89	1.2	3.7
88: AMQ-ENV15-124	980	21	28000	14000	23	29000	830	0.3	55	550	140	1.8	1.5
89: AMQ-ENV15-123	870	16	37000	10000	21	48000	1000	0.4	49	310	640	5.1	< 0.8
90: AMQ-ENV15-116	36	3.3	18000	1300	7	3100	190	0.7	180	11	430	5.1	< 0.8
91: AMQ-ENV15-130	160	17	28000	3100	15	6200	300	8.0	340	30	540	11	< 0.8
92: AMQ-ENV15-131	62	5.6	15000	1500	9	4000	180	0.6	210	16	400	6.0	< 0.8
93: AMQ-ENV15-132	40	4.9	14000	1200	7	3200	200	0.6	180	13	400	5.4	< 0.8
94: AMQ-ENV15-117	71	6.9	26000	2400	12	5500	260	0.6	300	20	740	5.4	< 0.8
95: AMQ-ENV15-118	300	19	25000	5200	14	13000	390	1.5	310	72	670	7.4	< 0.8
96: AMQ-ENV15-119	220	9.8	20000	3100	10	6300	200	7.2	560	35	590	5.5	< 0.8
97: AMQ-ENV15-125	120	8.7	19000	2300	9	4100	220	1.8	450	17	400	6.5	< 0.8
98: AMQ-ENV15-126	140	7.7	19000	3300	10	4300	240	6.0	770	18	480	6.6	< 0.8
99: AMQ-ENV15-127	110	6.7	18000	2600	9	3700	240	2.2	550	15	420	6.1	< 0.8
100: AMQ-ENV15-128	180	6.8	16000	2600	7	3800	200	6.8	620	20	400	5.0	< 0.8
101: AMQ-ENV15-129	160	11	20000	2400	10	4600	290	4.7	420	22	430	8.0	< 0.8
102: AMQ-ENV15-105	720	36	29000	3900	9	26000	340	0.3	33	440	170	0.61	< 0.8
103: AMQ-ENV15-121	560	40	33000	7500	10	38000	790	0.1	50	340	120	4.2	0.8
104: AMQ-ENV15-068	1250	8.4	40000	4600	13	35000	870	0.2	63	660	91	1.4	2.2
105: AMQ-ENV15-051	880	5.0	35000	12000	14	45000	880	0.3	70	460	75	2.1	1.4
106: AMQ-ENV15-071	840	28	31000	3800	6	42000	990	< 0.1	41	290	120	2.6	< 0.8
107: AMQ-ENV15-084	600	11	22000	120	3	40000	670	< 0.1	27	290	89	0.95	< 0.8
108: AMQ-ENV15-083	970	35	35000	11000	16	43000	650	0.1	59	510	61	1.9	< 0.8
109: AMQ-ENV15-050	770	25	48000	19000	19	44000	660	0.6	350	330	690	4.8	1.0
110: AMQ-ENV15-044	770	34	40000	13000	23	34000	620	0.2	220	180	1100	1.5	< 0.8
111: AMQ-ENV15-070	870	23	51000	31000	28	50000	570	0.7	340	240	1000	8.5	< 0.8
112: AMQ-ENV15-072	980	2.2	43000	27000	22	49000	470	0.9	210	360	920	2.7	< 0.8
113: AMQ-ENV15-120	27	23	31000	12000	14	9100	510	2.5	480	30	450	11	< 0.8
114: AMQ-ENV15-113	30	30	31000	13000	14	9700	490	2.3	660	30	620	20	< 0.8
115: AMQ-ENV15-052	780	7.8	57000	23000	20	53000	840	0.4	110	230	1200	3.1	< 0.8
116: AMQ-ENV15-060	28	32	33000	15000	11	9800	440	2.5	580	28	640	13	< 0.8
117: AMQ-ENV15-062	690	13	30000	720	5	48000	880	0.2	45	390	89	1.4	< 0.8
118: AMQ-ENV15-063	38	29	45000	20000	17	13000	470	2.2	550	35	730	7.5	< 0.8
119: AMQ-ENV15-114	49	19	60000	11000	38	17000	610	1.2	710	21	2100	2.5	< 0.8
120: AMQ-ENV15-078	83	27	58000	7300	25	17000	670	2.9	800	20	1300	18	< 0.8
121: AMQ-ENV15-043	140	28	74000	3500	4	5800	940	3.9	140	21	130	6.9	1.0
122: AMQ-ENV15-067	110	27	98000	3400	3	6900	2100	5.1	710	16	660	4.2	< 0.8



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LR Report :

CA15168-AUG15

Sample ID	Cr µg/g	Cu µg/g	Fe µg/g	K µg/g	Li µg/g	Mg µg/g	Mn µg/g	Mo µg/g	Na µg/g	Ni µg/g	P µg/g	Pb µg/g	Sb µg/g
123: AMQ-ENV15-061	72	40	43000	8400	14	10000	530	2.8	630	29	670	9.9	< 0.8

Sample ID	Se µg/g	Sn µg/g	Sr µg/g	Si µg/g	Ti µg/g	Tl µg/g	U µg/g	V µg/g	Zn µg/g
3: Analysis Approval Date	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15
4: Analysis Approval Time	14:05	14:05	14:05	15:32	14:05	14:05	14:05	14:06	14:06
5: AMQ-ENV15-028	< 0.7	< 0.5	62	4300	700	0.20	0.023	51	23
6: AMQ-ENV15-029	< 0.7	< 0.5	72	2500	100	0.03	< 0.002	41	14
7: AMQ-ENV15-030	< 0.7	< 0.5	110	2400	39	< 0.02	0.004	44	13
8: AMQ-ENV15-016	< 0.7	< 0.5	55	4900	1100	0.41	0.062	76	39
9: AMQ-ENV15-011	< 0.7	< 0.5	31	5500	1000	0.32	< 0.002	61	32
10: AMQ-ENV15-014	< 0.7	< 0.5	68	2700	530	0.15	0.007	66	19
11: AMQ-ENV15-090	< 0.7	< 0.5	40	5000	1100	0.30	0.018	56	33
12: AMQ-ENV15-026	< 0.7	< 0.5	140	2500	250	0.09	0.006	37	19
13: AMQ-ENV15-055	< 0.7	< 0.5	37	2900	68	< 0.02	0.003	57	18
14: AMQ-ENV15-021	< 0.7	< 0.5	230	3900	400	0.12	0.43	43	22
15: AMQ-ENV15-027	< 0.7	< 0.5	16	6100	700	0.24	0.067	52	22
16: AMQ-ENV15-040	< 0.7	< 0.5	120	2900	87	< 0.02	< 0.002	48	11
17: AMQ-ENV15-041	< 0.7	< 0.5	45	2100	95	0.02	0.56	48	15
18: AMQ-ENV15-034	< 0.7	< 0.5	17	6300	320	0.12	0.15	60	28
19: AMQ-ENV15-045	< 0.7	< 0.5	37	6000	670	0.17	0.005	63	38
20: AMQ-ENV15-038	< 0.7	< 0.5	22	3800	1200	0.35	0.050	83	47
21: AMQ-ENV15-039	< 0.7	< 0.5	82	7900	750	0.36	< 0.002	56	32
22: AMQ-ENV15-035	< 0.7	< 0.5	8.2	4000	350	0.17	0.072	45	19
23: AMQ-ENV15-010	< 0.7	< 0.5	17	6400	1000	0.46	0.085	54	34
24: AMQ-ENV15-086	< 0.7	< 0.5	57	3900	970	0.33	< 0.002	77	38
25: AMQ-ENV15-099	< 0.7	< 0.5	120	2100	51	< 0.02	< 0.002	35	13
26: AMQ-ENV15-089	< 0.7	< 0.5	24	4500	1200	0.45	0.11	61	42
27: AMQ-ENV15-020	< 0.7	< 0.5	84	3700	1400	0.46	0.53	57	32
28: AMQ-ENV15-033	< 0.7	0.8	180	2900	2000	0.81	0.65	75	40
29: AMQ-ENV15-109	< 0.7	0.7	260	4100	1600	0.79	0.61	65	33
30: AMQ-ENV15-081	< 0.7	< 0.5	39	4700	1100	0.40	1.8	64	46
31: AMQ-ENV15-076	0.8	< 0.5	91	3300	690	0.31	0.36	28	22
32: AMQ-ENV15-104	< 0.7	< 0.5	110	12000	1900	0.55	0.85	93	46
33: AMQ-ENV15-094	< 0.7	< 0.5	87	6100	1400	0.35	0.50	80	53
34: AMQ-ENV15-024	< 0.7	< 0.5	49	9700	1200	0.31	1.2	46	36
35: AMQ-ENV15-023	< 0.7	< 0.5	56	10000	1800	0.49	1.2	59	44



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - K0L 2H0

Phone: 705-652-2000 FAX: 705-652-6365

LR Report :

CA15168-AUG15

Sample ID	Se µg/g	Sn µg/g	Sr µg/g	Si µg/g	Ti µg/g	Tl µg/g	U µg/g	V µg/g	Zn µg/g
36: AMQ-ENV15-022	< 0.7	0.5	210	12000	2500	0.62	1.1	88	48
37: AMQ-ENV15-042	< 0.7	< 0.5	31	10000	740	0.33	2.8	28	76
38: AMQ-ENV15-032	< 0.7	0.6	61	9500	1600	0.43	1.0	64	50
39: AMQ-ENV15-003	< 0.7	< 0.5	56	8400	1400	0.40	0.89	76	67
40: AMQ-ENV15-001	< 0.7	0.5	40	8600	1500	0.40	1.5	66	47
41: AMQ-ENV15-047	< 0.7	< 0.5	92	9400	1800	0.70	0.63	69	35
42: AMQ-ENV15-006	< 0.7	< 0.5	100	11000	2100	0.61	0.64	75	39
43: AMQ-ENV15-008	< 0.7	< 0.5	10.0	13000	160	0.09	0.84	9	69
44: AMQ-ENV15-009	< 0.7	< 0.5	16	13000	100	0.06	0.20	2	12
45: AMQ-ENV15-012	< 0.7	< 0.5	37	8900	1400	0.36	1.1	77	63
46: AMQ-ENV15-013	< 0.7	0.6	120	14000	2300	0.65	1.0	84	41
47: AMQ-ENV15-004	< 0.7	0.6	94	14000	2200	0.55	1.3	81	46
48: AMQ-ENV15-005	< 0.7	< 0.5	99	10000	1700	0.52	0.57	78	35
49: AMQ-ENV15-091	< 0.7	< 0.5	8.0	14000	400	0.27	2.0	10	37
50: AMQ-ENV15-101	< 0.7	0.8	90	7300	1500	0.37	1.3	89	77
51: AMQ-ENV15-102	< 0.7	< 0.5	68	13000	1600	0.37	0.80	89	70
52: AMQ-ENV15-103	< 0.7	< 0.5	89	6500	1500	0.44	0.38	78	55
53: AMQ-ENV15-098	< 0.7	< 0.5	21	7400	880	0.65	2.7	28	69
54: AMQ-ENV15-093	< 0.7	0.5	52	12000	950	0.25	1.9	48	94
55: AMQ-ENV15-097	< 0.7	< 0.5	20	7600	760	0.51	2.7	15	63
56: AMQ-ENV15-110	< 0.7	< 0.5	51	13000	940	0.19	3.5	43	53
57: AMQ-ENV15-106	< 0.7	< 0.5	39	7100	810	0.77	2.5	17	59
58: AMQ-ENV15-107	< 0.7	< 0.5	19	10000	920	0.69	3.0	29	68
59: AMQ-ENV15-108	< 0.7	< 0.5	16	11000	940	0.58	2.7	23	78
60: AMQ-ENV15-064	< 0.7	< 0.5	16	8400	750	0.34	2.3	32	72
61: AMQ-ENV15-065	< 0.7	< 0.5	18	9200	880	0.46	2.7	29	63
62: AMQ-ENV15-066	< 0.7	< 0.5	18	10000	860	0.49	2.5	26	74
63: AMQ-ENV15-112	< 0.7	< 0.5	10.0	10000	690	0.69	0.72	13	78
64: AMQ-ENV15-049	< 0.7	< 0.5	60	7700	1300	0.30	1.1	63	49
65: AMQ-ENV15-048	< 0.7	< 0.5	19	10000	760	0.48	2.6	15	46
66: AMQ-ENV15-025	< 0.7	< 0.5	38	7100	170	0.11	0.59	8	15
67: AMQ-ENV15-054	< 0.7	< 0.5	10	6400	410	0.21	2.0	20	28
68: AMQ-ENV15-073	< 0.7	< 0.5	17	9600	720	0.50	3.8	20	64
69: AMQ-ENV15-075	< 0.7	< 0.5	18	6200	460	0.28	1.7	10	57
70: AMQ-ENV15-074	< 0.7	< 0.5	20	7600	600	0.45	2.8	25	72
71: AMQ-ENV15-002	< 0.7	< 0.5	22	5400	1400	0.46	2.0	68	81
72: AMQ-ENV15-100	< 0.7	0.8	20	4900	1700	0.53	2.3	69	120



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

LR Report :

CA15168-AUG15

Sample ID	Se µg/g	Sn µg/g	Sr µg/g	Si µg/g	Ti µg/g	Tl µg/g	U µg/g	V µg/g	Zn µg/g
73: AMQ-ENV15-077	< 0.7	< 0.5	40	7800	1400	0.37	2.1	62	83
74: AMQ-ENV15-019	< 0.7	< 0.5	8.3	9400	330	0.26	3.4	10	21
75: AMQ-ENV15-046	< 0.7	< 0.5	16	9100	170	0.13	0.61	9	11
76: AMQ-ENV15-037	< 0.7	< 0.5	2.8	6400	160	0.18	0.98	8	16
77: AMQ-ENV15-007	< 0.7	0.6	190	5800	1300	0.78	0.94	48	46
78: AMQ-ENV15-092	1.4	< 0.5	16	9300	180	0.10	0.13	15	29
79: AMQ-ENV15-122	1.1	0.5	8.1	7700	520	0.32	0.52	18	110
80: AMQ-ENV15-088	< 0.7	< 0.5	130	8700	980	0.42	< 0.002	79	36
81: AMQ-ENV15-095	< 0.7	< 0.5	32	5300	280	0.26	1.6	11	120
82: AMQ-ENV15-096	< 0.7	0.6	15	7400	1000	0.74	1.3	31	79
83: AMQ-ENV15-085	0.8	< 0.5	7.5	6500	270	0.24	0.50	12	90
84: AMQ-ENV15-058	< 0.7	< 0.5	14	8400	380	0.37	2.9	12	32
85: AMQ-ENV15-056	< 0.7	< 0.5	13	6300	600	0.33	2.7	19	63
86: AMQ-ENV15-115	< 0.7	< 0.5	14	15000	230	0.14	0.33	7	13
87: AMQ-ENV15-111	< 0.7	< 0.5	60	3300	110	< 0.02	< 0.002	44	17
88: AMQ-ENV15-124	< 0.7	< 0.5	290	3900	1100	0.36	0.21	51	30
89: AMQ-ENV15-123	< 0.7	< 0.5	440	3100	940	0.34	0.53	60	27
90: AMQ-ENV15-116	< 0.7	0.5	8.3	1300	430	0.06	1.2	13	32
91: AMQ-ENV15-130	< 0.7	0.8	17	1500	490	0.18	5.9	15	49
92: AMQ-ENV15-131	< 0.7	< 0.5	12	1500	340	0.07	1.8	11	29
93: AMQ-ENV15-132	< 0.7	< 0.5	12	1600	340	0.06	2.2	10	29
94: AMQ-ENV15-117	< 0.7	< 0.5	13	2100	670	0.08	1.1	33	45
95: AMQ-ENV15-118	< 0.7	0.5	25	1500	940	0.23	1.3	29	34
96: AMQ-ENV15-119	< 0.7	0.6	19	2100	520	0.09	1.2	14	31
97: AMQ-ENV15-125	< 0.7	0.7	18	2000	460	0.10	2.6	12	34
98: AMQ-ENV15-126	< 0.7	0.7	20	5300	520	0.10	2.2	10	32
99: AMQ-ENV15-127	< 0.7	0.7	17	2700	500	0.10	2.0	11	33
100: AMQ-ENV15-128	< 0.7	0.6	17	2300	400	0.07	1.6	7	26
101: AMQ-ENV15-129	< 0.7	0.7	16	1500	430	0.11	2.9	13	36
102: AMQ-ENV15-105	< 0.7	< 0.5	37	4100	520	0.11	< 0.002	66	28
103: AMQ-ENV15-121	< 0.7	< 0.5	110	3300	790	0.20	< 0.002	64	28
104: AMQ-ENV15-068	< 0.7	< 0.5	45	7300	600	0.20	< 0.002	72	31
105: AMQ-ENV15-051	< 0.7	< 0.5	200	3700	870	0.27	< 0.002	75	32
106: AMQ-ENV15-071	< 0.7	< 0.5	160	4700	240	0.11	< 0.002	55	25
107: AMQ-ENV15-084	< 0.7	< 0.5	180	3200	46	< 0.02	< 0.002	31	13
108: AMQ-ENV15-083	< 0.7	< 0.5	150	5900	680	0.32	< 0.002	69	29
109: AMQ-ENV15-050	< 0.7	< 0.5	140	9600	1700	0.45	1.2	79	51



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - KOL 2H0

Phone: 705-652-2000 FAX: 705-652-6365

LR Report :

CA15168-AUG15

Sample ID	Se µg/g	Sn µg/g	Sr µg/g	Si µg/g	Ti µg/g	Tl µg/g	U µg/g	V µg/g	Zn µg/g
110: AMQ-ENV15-044	< 0.7	< 0.5	120	8200	1400	0.24	0.37	66	44
111: AMQ-ENV15-070	< 0.7	0.8	130	9700	2500	0.73	1.6	93	55
112: AMQ-ENV15-072	< 0.7	< 0.5	82	9700	2000	0.89	1.1	64	51
113: AMQ-ENV15-120	< 0.7	< 0.5	18	6900	770	0.50	2.8	22	54
114: AMQ-ENV15-113	< 0.7	< 0.5	23	7000	1000	0.62	2.2	27	67
115: AMQ-ENV15-052	< 0.7	0.6	260	9300	2100	0.57	0.51	92	63
116: AMQ-ENV15-060	< 0.7	< 0.5	20	5100	990	0.81	2.3	27	72
117: AMQ-ENV15-062	< 0.7	< 0.5	120	3900	110	0.03	< 0.002	43	17
118: AMQ-ENV15-063	< 0.7	< 0.5	28	5800	1500	0.87	2.2	33	67
119: AMQ-ENV15-114	< 0.7	< 0.5	24	4500	1800	0.32	1.1	69	90
120: AMQ-ENV15-078	< 0.7	< 0.5	27	7100	1400	0.26	2.4	69	91
121: AMQ-ENV15-043	< 0.7	< 0.5	11	8900	300	0.24	0.22	9	87
122: AMQ-ENV15-067	1.2	< 0.5	99	5500	120	0.11	0.18	7	70
123: AMQ-ENV15-061	< 0.7	< 0.5	33	6800	810	0.57	2.8	26	63

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



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Agnico Eagle Mines Limited

Attn : Serge Ouellet

10200, route de Pressac, Rouyn-Noranda

, JOY 1C0

Phone: (819) 759-3700 x5820, Fax:(819) 759-3663

SFE -24hr 4:1 L/S ratio

01-September-2015

Date Rec. : 13 August 2015
LR Report: CA15169-AUG15
Reference: OP-460193-J

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Sample weight g	Volume D.I. Water mL	Initial pH	Final pH	pH no unit	Alkalinity mg/L as CaCO3	Conductivity uS/cm	F mg/L	Cl mg/L	SO4 mg/L	Br mg/L	NO2 as N mg/L
3: Analysis Approval Date		24-Aug-15	24-Aug-15	24-Aug-15	24-Aug-15	26-Aug-15	26-Aug-15	26-Aug-15	28-Aug-15	26-Aug-15	26-Aug-15	31-Aug-15	31-Aug-15
4: Analysis Approval Time		12:51	12:51	12:51	12:51	09:49	09:49	09:49	12:09	09:42	09:42	11:12	11:12
5: AMQ-ENV15-028	Date:N/A	200	800	9.76	9.64	8.52	32	87	< 0.06	3	1	< 3	< 0.3
6: AMQ-ENV15-029	Date:N/A	200	800	9.51	9.56	8.27	29	75	< 0.06	4	< 1	< 3	< 0.3
7: AMQ-ENV15-030	Date:N/A	200	800	9.40	9.59	8.14	29	62	< 0.06	1	< 1	< 3	< 0.3
8: AMQ-ENV15-016	Date:N/A	200	800	9.56	9.09	7.83	38	203	< 0.06	13	34	< 3	< 0.3
9: AMQ-ENV15-011	Date:N/A	200	800	9.81	9.84	9.27	34	85	< 0.06	2	< 1	< 3	< 0.3
10: AMQ-ENV15-014	Date:N/A	200	800	9.42	9.58	8.32	34	90	0.09	5	< 1	< 3	< 0.3
11: AMQ-ENV15-090	Date:N/A	200	800	9.71	9.74	9.05	33	84	< 0.06	2	1	< 3	< 0.3
12: AMQ-ENV15-026	Date:N/A	200	800	9.86	9.61	8.24	31	72	< 0.06	2	1	< 3	< 0.3
13: AMQ-ENV15-055	Date:N/A	200	800	9.76	9.62	8.75	29	66	< 0.06	< 1	1	< 3	< 0.3
14: AMQ-ENV15-021	Date:N/A	200	800	9.81	9.81	9.06	32	79	< 0.06	2	< 1	< 3	< 0.3
15: AMQ-ENV15-027	Date:N/A	200	800	9.77	9.44	8.05	28	94	0.10	9	< 1	< 3	< 0.3
16: AMQ-ENV15-040	Date:N/A	200	800	9.78	9.65	8.38	31	69	< 0.06	1	< 1	< 3	< 0.3
17: AMQ-ENV15-041	Date:N/A	200	800	9.32	9.61	8.50	27	61	< 0.06	< 1	< 1	< 3	< 0.3
18: AMQ-ENV15-034	Date:N/A	200	800	9.67	9.41	7.94	25	83	< 0.06	9	< 1	< 3	< 0.3
19: AMQ-ENV15-045	Date:N/A	200	800	9.87	9.50	8.59	33	85	< 0.06	2	< 1	< 3	< 0.3
20: AMQ-ENV15-038	Date:N/A	200	800	9.72	9.24	8.05	39	115	< 0.06	6	1	< 3	< 0.3
21: AMQ-ENV15-039	Date:N/A	200	800	9.81	9.89	9.38	35	82	0.07	< 1	< 1	< 3	< 0.3
22: AMQ-ENV15-035	Date:N/A	200	800	9.74	9.57	8.39	24	78	< 0.06	8	< 1	< 3	< 0.3
23: AMQ-ENV15-010	Date:N/A	200	800	9.77	9.47	8.59	38	112	< 0.06	12	2	< 3	< 0.3

Online LIMS

0000495130



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - K0L 2H0

Phone: 705-652-2000 FAX: 705-652-6365

SFE -24hr 4:1 L/S ratio

LR Report :

CA15169-AUG15

Sample ID	Sample Date & Time	Sample weight g	Volume D.I. Water mL	Initial pH	Final pH	pH no unit	Alkalinity mg/L as CaCO3	Conductivity uS/cm	F mg/L	Cl mg/L	SO4 mg/L	Br mg/L	NO2 as N mg/L
24: AMQ-ENV15-086	Date:N/A	200	800	9.82	9.78	9.09	44	129	< 0.06	5	2	< 3	< 0.3
25: AMQ-ENV15-099	Date:N/A	200	800	9.51	9.21	8.17	61	100	< 0.06	3	1	< 3	< 0.3
26: AMQ-ENV15-089	Date:N/A	200	800	9.70	8.92	7.81	40	210	0.09	38	6	< 3	< 0.3
27: AMQ-ENV15-020	Date:N/A	200	800	9.45	9.27	8.02	40	163	0.12	9	17	< 3	< 0.3
28: AMQ-ENV15-033	Date:N/A	200	800	9.42	9.49	8.91	71	162	0.09	2	1	< 3	< 0.3
29: AMQ-ENV15-109	Date:N/A	200	800	9.55	9.40	8.84	72	151	0.07	2	< 1	< 3	< 0.3
30: AMQ-ENV15-081	Date:N/A	200	800	9.83	9.67	7.13	41	85	0.13	3	2	< 3	< 0.3
31: AMQ-ENV15-076	Date:N/A	200	800	7.61	8.36	7.97	70	331	0.10	49	44	< 3	< 0.3
32: AMQ-ENV15-104	Date:N/A	200	800	9.89	9.90	9.32	41	101	0.11	1	1	< 3	< 0.3
33: AMQ-ENV15-094	Date:N/A	200	800	9.85	9.98	9.34	39	93	0.20	1	1	< 3	< 0.3
34: AMQ-ENV15-024	Date:N/A	200	800	9.69	9.93	8.69	50	80	0.13	< 1	< 1	< 3	< 0.3
35: AMQ-ENV15-023	Date:N/A	200	800	9.75	9.98	9.21	37	91	0.14	1	1	< 3	< 0.3
36: AMQ-ENV15-022	Date:N/A	200	800	9.76	10.07	9.07	54	107	0.20	1	< 1	< 3	< 0.3
37: AMQ-ENV15-042	Date:N/A	200	800	9.61	9.67	8.27	33	69	0.30	1	< 1	< 3	< 0.3
38: AMQ-ENV15-032	Date:N/A	200	800	10.02	9.93	9.05	56	98	0.15	2	< 1	< 3	< 0.3
39: AMQ-ENV15-003	Date:N/A	200	800	9.98	9.95	9.24	36	85	0.17	1	< 1	< 3	< 0.3
40: AMQ-ENV15-001	Date:N/A	200	800	9.78	9.65	8.20	34	99	0.16	4	2	< 3	< 0.3
41: AMQ-ENV15-047	Date:N/A	200	800	9.95	9.81	8.98	45	107	0.11	< 1	< 1	< 3	< 0.3
42: AMQ-ENV15-006	Date:N/A	200	800	9.84	9.59	8.57	38	99	0.11	2	< 1	< 3	< 0.3
43: AMQ-ENV15-008	Date:N/A	200	800	9.91	8.98	7.80	38	130	0.43	19	< 1	< 3	< 0.3
44: AMQ-ENV15-009	Date:N/A	200	800	9.83	9.02	7.73	38	143	0.12	22	1	< 3	< 0.3
45: AMQ-ENV15-012	Date:N/A	200	800	9.44	9.39	9.12	42	113	0.21	3	5	< 3	< 0.3
46: AMQ-ENV15-013	Date:N/A	200	800	9.77	10.02	9.83	76	171	0.24	1	< 1	< 3	< 0.3
47: AMQ-ENV15-004	Date:N/A	200	800	9.59	9.81	9.65	61	131	0.19	2	< 1	< 3	< 0.3
48: AMQ-ENV15-005	Date:N/A	200	800	9.57	9.58	9.42	55	124	0.19	2	< 1	< 3	< 0.3
49: AMQ-ENV15-091	Date:N/A	200	800	8.44	7.96	8.44	43	203	0.17	19	27	< 3	< 0.3
50: AMQ-ENV15-101	Date:N/A	200	800	9.67	9.40	7.96	35	108	0.18	5	6	< 3	< 0.3
51: AMQ-ENV15-102	Date:N/A	200	800	9.85	9.76	9.45	87	107	0.13	2	1	< 3	< 0.3
52: AMQ-ENV15-103	Date:N/A	200	800	9.83	9.91	9.58	44	100	0.23	< 1	< 1	< 3	< 0.3
53: AMQ-ENV15-098	Date:N/A	200	800	9.23	9.48	8.98	41	90	0.14	3	< 1	< 3	< 0.3
54: AMQ-ENV15-093	Date:N/A	200	800	9.44	9.37	8.31	43	112	0.09	5	3	< 3	< 0.3
55: AMQ-ENV15-097	Date:N/A	200	800	9.58	9.67	9.31	42	91	0.12	2	< 1	< 3	< 0.3
56: AMQ-ENV15-110	Date:N/A	200	800	9.71	9.59	9.29	60	106	0.11	2	< 1	< 3	< 0.3
57: AMQ-ENV15-106	Date:N/A	200	800	9.64	9.68	9.30	54	109	0.27	2	< 1	< 3	< 0.3
58: AMQ-ENV15-107	Date:N/A	200	800	9.49	9.69	9.02	43	89	0.21	1	< 1	< 3	< 0.3
59: AMQ-ENV15-108	Date:N/A	200	800	9.35	9.71	9.25	45	91	0.19	1	< 1	< 3	< 0.3
60: AMQ-ENV15-064	Date:N/A	200	800	8.74	9.32	8.46	40	110	0.17	7	< 1	< 3	< 0.3



SGS Canada Inc.

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Lakefield - Ontario - KOL 2H0

Phone: 705-652-2000 FAX: 705-652-6365

SFE -24hr 4:1 L/S ratio

LR Report :

CA15169-AUG15

Sample ID	Sample Date & Time	Sample weight g	Volume D.I. Water mL	Initial pH	Final pH	pH no unit	Alkalinity mg/L as CaCO3	Conductivity uS/cm	F mg/L	Cl mg/L	SO4 mg/L	Br mg/L	NO2 as N mg/L
61: AMQ-ENV15-065	Date:N/A	200	800	9.37	9.57	9.14	40	86	0.16	2	< 1	< 3	< 0.3
62: AMQ-ENV15-066	Date:N/A	200	800	9.40	9.39	8.99	42	101	0.21	4	2	< 3	< 0.3
63: AMQ-ENV15-112	Date:N/A	200	800	9.09	9.60	9.55	49	110	0.41	4	< 1	< 3	< 0.3
64: AMQ-ENV15-049	Date:N/A	200	800	9.58	9.97	9.81	46	101	0.16	1	< 1	< 3	< 0.3
65: AMQ-ENV15-048	Date:N/A	200	800	9.78	9.57	9.27	44	94	0.18	2	< 1	< 3	< 0.3
66: AMQ-ENV15-025	Date:N/A	200	800	9.83	9.52	9.50	43	123	0.13	14	< 1	< 3	< 0.3
67: AMQ-ENV15-054	Date:N/A	200	800	9.34	8.02	7.98	62	288	0.14	42	39	< 3	< 0.3
68: AMQ-ENV15-073	Date:N/A	200	800	9.12	9.56	9.47	40	87	0.12	3	< 1	< 3	< 0.3
69: AMQ-ENV15-075	Date:N/A	200	800	9.70	9.35	9.35	44	104	0.17	6	< 1	< 3	< 0.3
70: AMQ-ENV15-074	Date:N/A	200	800	9.47	9.64	9.24	42	94	0.17	1	< 1	< 3	< 0.3
71: AMQ-ENV15-002	Date:N/A	200	800	9.41	9.26	9.24	38	128	0.19	8	8	< 3	< 0.3
72: AMQ-ENV15-100	Date:N/A	200	800	9.67	9.48	9.35	45	112	0.25	3	1	< 3	< 0.3
73: AMQ-ENV15-077	Date:N/A	200	800	9.89	9.64	9.44	43	98	0.18	2	< 1	< 3	< 0.3
74: AMQ-ENV15-019	Date:N/A	200	800	9.67	8.46	8.84	63	270	0.21	34	24	< 3	< 0.3
75: AMQ-ENV15-046	Date:N/A	200	800	9.72	8.55	8.81	60	218	0.17	30	9	< 3	< 0.3
76: AMQ-ENV15-037	Date:N/A	200	800	5.48	5.15	7.27	9	192	0.10	6	58	< 3	< 0.3
77: AMQ-ENV15-007	Date:N/A	200	800	9.64	9.08	8.59	51	210	0.14	20	11	< 3	< 0.3
78: AMQ-ENV15-092	Date:N/A	200	800	9.58	8.91	8.89	54	181	0.08	24	2	< 3	< 0.3
79: AMQ-ENV15-122	Date:N/A	200	800	9.87	9.84	9.36	53	136	< 0.06	1	1	< 3	< 0.3
80: AMQ-ENV15-088	Date:N/A	200	800	9.63	8.53	8.84	52	190	0.12	30	1	< 3	< 0.3
81: AMQ-ENV15-095	Date:N/A	200	800	9.62	8.96	9.06	45	139	0.17	10	6	< 3	< 0.3
82: AMQ-ENV15-096	Date:N/A	200	800	9.84	9.47	9.07	53	127	0.45	5	< 1	< 3	< 0.3
83: AMQ-ENV15-085	Date:N/A	200	800	9.38	8.90	8.83	40	125	0.12	16	< 1	< 3	< 0.3
84: AMQ-ENV15-058	Date:N/A	200	800	8.20	8.18	8.62	58	246	0.19	26	30	< 3	< 0.3
85: AMQ-ENV15-056	Date:N/A	200	800	9.20	9.18	9.24	40	114	0.19	4	6	< 3	< 0.3
86: AMQ-ENV15-115	Date:N/A	200	800	9.81	9.91	9.72	56	143	0.59	9	< 1	< 3	< 0.3
87: AMQ-ENV15-111	Date:N/A	200	800	9.76	9.44	8.14	33	88	0.06	3	1	< 3	< 0.3
88: AMQ-ENV15-124	Date:N/A	200	800	9.83	9.82	9.70	55	159	0.12	5	3	< 3	< 0.3
89: AMQ-ENV15-123	Date:N/A	200	800	9.44	9.39	8.89	67	157	0.09	3	1	< 3	< 0.3
90: AMQ-ENV15-116	Date:N/A	200	800	5.18	5.71	8.63	22	56	0.09	1	< 1	< 3	< 0.3
91: AMQ-ENV15-130	Date:N/A	200	800	5.19	5.30	7.96	20	60	0.20	2	< 1	< 3	< 0.3
92: AMQ-ENV15-131	Date:N/A	200	800	5.49	5.86	8.65	16	45	0.23	< 1	< 1	< 3	< 0.3
93: AMQ-ENV15-132	Date:N/A	200	800	6.41	6.88	9.26	16	44	0.42	< 1	1	< 3	< 0.3
94: AMQ-ENV15-117	Date:N/A	200	800	5.66	6.82	9.04	17	42	0.13	1	< 1	< 3	< 0.3
95: AMQ-ENV15-118	Date:N/A	200	800	5.26	5.22	8.05	16	48	0.09	2	< 1	< 3	< 0.3
96: AMQ-ENV15-119	Date:N/A	200	800	5.60	5.43	8.64	15	36	0.09	1	< 1	< 3	< 0.3
97: AMQ-ENV15-125	Date:N/A	200	800	5.58	5.80	8.47	14	52	0.23	3	< 1	< 3	< 0.3



SGS Canada Inc.

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Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

SFE -24hr 4:1 L/S ratio

LR Report :

CA15169-AUG15

Sample ID	Sample Date & Time	Sample weight g	Volume D.I. Water mL	Initial pH	Final pH	pH no unit	Alkalinity mg/L as CaCO3	Conductivity uS/cm	F mg/L	Cl mg/L	SO4 mg/L	Br mg/L	NO2 as N mg/L
98: AMQ-ENV15-126	Date:N/A	200	800	6.32	6.88	8.39	12	37	0.43	2	< 1	< 3	< 0.3
99: AMQ-ENV15-127	Date:N/A	200	800	6.27	6.72	8.79	15	44	0.41	2	1	< 3	< 0.3
100: AMQ-ENV15-128	Date:N/A	200	800	5.55	6.14	8.77	15	45	0.15	1	< 1	< 3	< 0.3
101: AMQ-ENV15-129	Date:N/A	200	800	5.39	5.75	8.55	13	47	0.20	4	1	< 3	< 0.3
102: AMQ-ENV15-105	Date:N/A	200	800	9.83	9.78	9.55	41	106	0.07	4	1	< 3	< 0.3
103: AMQ-ENV15-121	Date:N/A	200	800	9.65	9.38	8.93	58	134	0.07	3	1	< 3	< 0.3
104: AMQ-ENV15-068	Date:N/A	200	800	9.83	9.78	9.16	38	97	0.07	3	1	< 3	< 0.3
105: AMQ-ENV15-051	Date:N/A	200	800	9.86	9.36	8.79	59	142	0.06	4	2	< 3	< 0.3
106: AMQ-ENV15-071	Date:N/A	200	800	9.81	9.56	8.95	45	99	0.07	1	< 1	< 3	< 0.3
107: AMQ-ENV15-084	Date:N/A	200	800	9.29	9.38	8.70	49	100	< 0.06	< 1	< 1	< 3	< 0.3
108: AMQ-ENV15-083	Date:N/A	200	800	9.85	9.98	9.63	54	142	0.07	3	1	< 3	< 0.3
109: AMQ-ENV15-050	Date:N/A	200	800	9.89	10.05	9.51	44	116	0.14	3	1	< 3	< 0.3
110: AMQ-ENV15-044	Date:N/A	200	800	9.87	10.19	9.90	48	108	0.19	1	< 1	< 3	< 0.3
111: AMQ-ENV15-070	Date:N/A	200	800	9.88	10.21	10.0	56	133	0.14	< 1	< 1	< 3	< 0.3
112: AMQ-ENV15-072	Date:N/A	200	800	9.75	10.10	9.80	54	129	0.24	2	< 1	< 3	< 0.3
113: AMQ-ENV15-120	Date:N/A	200	800	9.72	9.74	9.55	44	105	0.19	3	< 1	< 3	< 0.3
114: AMQ-ENV15-113	Date:N/A	200	800	9.73	9.78	9.58	42	113	0.16	2	< 1	< 3	< 0.3
115: AMQ-ENV15-052	Date:N/A	200	800	10.05	10.08	9.63	47	127	0.17	3	< 1	< 3	< 0.3
116: AMQ-ENV15-060	Date:N/A	200	800	9.69	9.79	9.74	47	97	0.17	2	< 1	< 3	< 0.3
117: AMQ-ENV15-062	Date:N/A	200	800	9.56	9.23	8.69	60	127	0.08	3	1	< 3	< 0.3
118: AMQ-ENV15-063	Date:N/A	200	800	9.80	9.78	9.69	48	112	0.29	2	< 1	< 3	< 0.3
119: AMQ-ENV15-114	Date:N/A	200	800	9.59	9.72	9.45	42	93	0.25	1	1	< 3	< 0.3
120: AMQ-ENV15-078	Date:N/A	200	800	9.85	9.46	9.36	41	113	0.17	4	3	< 3	< 0.3
121: AMQ-ENV15-043	Date:N/A	200	800	9.76	8.86	9.03	44	231	0.07	23	< 1	< 3	< 0.3
122: AMQ-ENV15-067	Date:N/A	200	800	9.81	9.29	9.37	44	169	0.12	30	< 1	< 3	< 0.3
123: AMQ-ENV15-061	Date:N/A	200	800	9.88	9.75	9.69	42	90	0.21	1	< 1	< 3	< 0.3
124-DUP: AMQ-ENV15-086		200	800	9.88	9.78	9.10	44	137	0.08	6	3	< 3	< 0.3
125-DUP: AMQ-ENV15-009		200	800	9.75	9.02	7.87	38	143	0.10	23	1	< 3	< 0.3
126-DUP: AMQ-ENV15-049		200	800	9.60	9.98	9.65	48	104	0.18	1	< 1	< 3	< 0.3
127-DUP: AMQ-ENV15-058		200	800	8.45	8.23	8.14	54	239	0.20	26	27	< 3	< 0.3
128-DUP: AMQ-ENV15-068		200	800	9.80	9.68	9.28	38	104	0.07	3	1	< 3	< 0.3
129-DUP: AMQ-ENV15-061		200	800	9.82	9.73	9.70	41	89	0.22	2	< 1	< 3	< 0.3

Sample ID	NO3 as N mg/L	Cr(VI) µg/L	Tot.Reactive P mg/L	Hg mg/L	Ag mg/L	Al mg/L	As mg/L	Ba mg/L	B mg/L	Be mg/L	Bi mg/L	Ca mg/L	Cd mg/L
3: Analysis Approval Date	31-Aug-15	31-Aug-15	28-Aug-15	26-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15	27-Aug-15



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SFE -24hr 4:1 L/S ratio

LR Report :

CA15169-AUG15

Sample ID	NO3 as N mg/L	Cr(VI) µg/L	Tot.Reactive P mg/L	Hg mg/L	Ag mg/L	Al mg/L	As mg/L	Ba mg/L	B mg/L	Be mg/L	Bi mg/L	Ca mg/L	Cd mg/L
4: Analysis Approval Time	11:12	09:40	11:29	10:19	15:07	15:07	15:07	15:08	15:08	15:08	15:09	15:09	15:09
5: AMQ-ENV15-028	< 0.6	0.5	0.13	< 0.00001	0.000041	0.075	1.05	0.00624	0.0164	< 0.000007	< 0.000007	5.86	0.000003
6: AMQ-ENV15-029	< 0.6	< 0.2	< 0.03	< 0.00001	0.000006	0.041	0.0787	0.00908	0.0084	< 0.000007	< 0.000007	6.96	< 0.000003
7: AMQ-ENV15-030	< 0.6	< 0.2	< 0.03	< 0.00001	0.000007	0.031	0.0840	0.00476	0.0153	< 0.000007	< 0.000007	5.65	< 0.000003
8: AMQ-ENV15-016	< 0.6	0.2	0.37	< 0.00001	0.000020	0.091	1.69	0.0528	0.0127	< 0.000007	0.000015	12.4	< 0.000003
9: AMQ-ENV15-011	< 0.6	1.3	0.17	< 0.00001	0.000003	0.135	1.21	0.00605	0.0198	< 0.000007	< 0.000007	4.49	< 0.000003
10: AMQ-ENV15-014	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	0.031	0.0102	0.0236	0.0085	< 0.000007	< 0.000007	5.48	< 0.000003
11: AMQ-ENV15-090	< 0.6	1.1	0.24	< 0.00001	< 0.000002	0.092	1.44	0.00752	0.0063	< 0.000007	< 0.000007	5.38	< 0.000003
12: AMQ-ENV15-026	< 0.6	0.8	0.15	< 0.00001	0.000002	0.037	1.08	0.00875	0.0214	< 0.000007	< 0.000007	6.52	< 0.000003
13: AMQ-ENV15-055	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	0.026	0.0561	0.0114	0.0124	< 0.000007	< 0.000007	5.25	< 0.000003
14: AMQ-ENV15-021	< 0.6	0.4	< 0.03	< 0.00001	< 0.000002	0.041	0.301	0.0221	0.0115	< 0.000007	< 0.000007	4.99	< 0.000003
15: AMQ-ENV15-027	< 0.6	0.2	0.25	< 0.00001	0.000010	0.334	1.43	0.00327	0.0066	< 0.000007	< 0.000007	7.14	< 0.000003
16: AMQ-ENV15-040	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	0.021	0.0162	0.0225	0.0077	< 0.000007	< 0.000007	5.34	< 0.000003
17: AMQ-ENV15-041	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	0.026	0.0092	0.0105	0.0109	< 0.000007	< 0.000007	3.58	< 0.000003
18: AMQ-ENV15-034	< 0.6	< 0.2	< 0.03	< 0.00001	0.000002	0.427	0.446	0.00191	0.0064	< 0.000007	< 0.000007	7.40	< 0.000003
19: AMQ-ENV15-045	< 0.6	0.4	0.24	< 0.00001	0.000003	0.143	1.40	0.00567	0.0108	< 0.000007	< 0.000007	5.34	< 0.000003
20: AMQ-ENV15-038	< 0.6	< 0.2	< 0.03	< 0.00001	0.000004	0.172	0.590	0.00596	0.0070	< 0.000007	< 0.000007	6.61	< 0.000003
21: AMQ-ENV15-039	< 0.6	0.9	0.06	< 0.00001	0.000023	0.015	0.469	0.00872	0.0147	< 0.000007	< 0.000007	4.88	< 0.000003
22: AMQ-ENV15-035	< 0.6	< 0.2	< 0.03	< 0.00001	0.000059	0.244	0.359	0.00203	0.0071	< 0.000007	0.000019	7.49	< 0.000003
23: AMQ-ENV15-010	< 0.6	0.3	0.20	< 0.00001	0.000022	0.262	1.63	0.00777	0.0081	< 0.000007	0.000020	6.28	< 0.000003
24: AMQ-ENV15-086	< 0.6	4.0	1.77	< 0.00001	0.000002	0.040	4.90	0.0103	0.0163	< 0.000007	< 0.000007	4.89	< 0.000003
25: AMQ-ENV15-099	< 0.6	0.4	0.08	< 0.00001	0.000004	0.016	0.897	0.0144	0.0156	< 0.000007	< 0.000007	7.97	< 0.000003
26: AMQ-ENV15-089	< 0.6	< 0.2	0.63	< 0.00001	0.000021	0.158	3.08	0.0101	0.0108	< 0.000007	0.000022	11.1	< 0.000003
27: AMQ-ENV15-020	< 0.6	< 0.2	< 0.03	< 0.00001	0.000012	0.050	0.235	0.0912	0.0129	< 0.000007	0.000011	8.11	< 0.000003
28: AMQ-ENV15-033	< 0.6	0.2	0.05	< 0.00001	0.000002	0.038	0.360	0.0826	0.0086	< 0.000007	< 0.000007	5.69	< 0.000003
29: AMQ-ENV15-109	< 0.6	< 0.2	0.05	< 0.00001	< 0.000002	0.026	0.603	0.0629	0.0077	< 0.000007	< 0.000007	5.57	< 0.000003
30: AMQ-ENV15-081	< 0.6	< 0.2	< 0.03	< 0.00001	0.000006	0.407	0.0408	0.00692	0.0096	< 0.000007	< 0.000007	4.70	< 0.000003
31: AMQ-ENV15-076	< 0.6	< 0.2	< 0.03	< 0.00001	0.000112	0.044	0.284	0.0909	0.0226	< 0.000007	0.000010	21.0	< 0.000003
32: AMQ-ENV15-104	< 0.6	0.4	< 0.03	< 0.00001	< 0.000002	0.062	0.0071	0.0315	0.0097	< 0.000007	< 0.000007	3.30	0.000005
33: AMQ-ENV15-094	< 0.6	0.5	< 0.03	< 0.00001	< 0.000002	0.094	0.0274	0.0195	0.0074	< 0.000007	< 0.000007	3.92	< 0.000003
34: AMQ-ENV15-024	< 0.6	0.6	0.04	< 0.00001	< 0.000002	0.183	0.0185	0.00611	0.0079	< 0.000007	< 0.000007	4.63	< 0.000003
35: AMQ-ENV15-023	< 0.6	0.6	< 0.03	0.00002	< 0.000002	0.309	0.0117	0.00745	0.0072	< 0.000007	< 0.000007	3.27	< 0.000003
36: AMQ-ENV15-022	< 0.6	0.7	< 0.03	< 0.00001	< 0.000002	0.112	0.0102	0.0463	0.0078	< 0.000007	< 0.000007	3.65	< 0.000003
37: AMQ-ENV15-042	< 0.6	< 0.2	0.03	< 0.00001	< 0.000002	1.88	0.0286	0.00373	0.0177	< 0.000007	< 0.000007	2.61	< 0.000003
38: AMQ-ENV15-032	< 0.6	0.6	0.03	< 0.00001	< 0.000002	0.262	0.0218	0.00924	0.0086	< 0.000007	< 0.000007	3.35	< 0.000003
39: AMQ-ENV15-003	< 0.6	0.4	< 0.03	< 0.00001	< 0.000002	0.135	0.0185	0.0118	0.0077	< 0.000007	< 0.000007	4.16	< 0.000003
40: AMQ-ENV15-001	< 0.6	0.4	< 0.03	< 0.00001	0.000003	0.268	0.0702	0.0292	0.0258	< 0.000007	< 0.000007	4.46	< 0.000003

Online LIMS

0000495130



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SFE -24hr 4:1 L/S ratio

LR Report :

CA15169-AUG15

Sample ID	NO3 as N mg/L	Cr(VI) µg/L	Tot.Reactive P mg/L	Hg mg/L	Ag mg/L	Al mg/L	As mg/L	Ba mg/L	B mg/L	Be mg/L	Bi mg/L	Ca mg/L	Cd mg/L
41: AMQ-ENV15-047	< 0.6	0.4	< 0.03	< 0.00001	< 0.000002	0.042	0.0331	0.0286	0.0113	< 0.000007	< 0.000007	2.93	< 0.000003
42: AMQ-ENV15-006	< 0.6	0.3	< 0.03	< 0.00001	0.000030	0.035	0.0117	0.0389	0.0139	< 0.000007	0.000013	4.06	< 0.000003
43: AMQ-ENV15-008	< 0.6	< 0.2	< 0.03	< 0.00001	0.000158	0.344	0.0045	0.00208	0.0219	< 0.000007	0.000036	9.34	< 0.000003
44: AMQ-ENV15-009	< 0.6	< 0.2	< 0.03	< 0.00001	0.000009	0.088	0.122	0.00164	0.0212	< 0.000007	0.000019	8.94	< 0.000003
45: AMQ-ENV15-012	< 0.6	0.2	0.09	< 0.00001	0.000008	0.137	0.0470	0.0111	0.0357	< 0.000007	< 0.000007	3.23	0.000007
46: AMQ-ENV15-013	< 0.6	1.2	< 0.03	< 0.00001	< 0.000002	0.111	0.0347	0.0159	0.147	< 0.000007	< 0.000007	1.43	< 0.000003
47: AMQ-ENV15-004	< 0.6	0.8	< 0.03	< 0.00001	< 0.000002	0.046	0.0547	0.0120	0.0616	< 0.000007	< 0.000007	2.66	0.000005
48: AMQ-ENV15-005	< 0.6	0.3	< 0.03	< 0.00001	< 0.000002	0.011	0.0346	0.0234	0.0387	< 0.000007	< 0.000007	3.51	< 0.000003
49: AMQ-ENV15-091	< 0.6	< 0.2	< 0.03	< 0.00001	0.000018	0.038	0.0371	0.0179	0.0432	< 0.000007	< 0.000007	10.7	< 0.000003
50: AMQ-ENV15-101	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	0.615	0.0043	0.0140	0.0090	< 0.000007	< 0.000007	5.19	< 0.000003
51: AMQ-ENV15-102	< 0.6	0.2	0.04	< 0.00001	0.000002	0.637	0.0250	0.00939	0.0200	< 0.000007	< 0.000007	2.57	< 0.000003
52: AMQ-ENV15-103	< 0.6	0.4	0.04	< 0.00001	< 0.000002	0.108	0.0119	0.0155	0.0176	< 0.000007	< 0.000007	3.76	0.000004
53: AMQ-ENV15-098	< 0.6	< 0.2	0.08	< 0.00001	0.000003	1.12	0.149	0.00711	0.0243	0.000010	< 0.000007	2.59	< 0.000003
54: AMQ-ENV15-093	< 0.6	< 0.2	0.05	< 0.00001	< 0.000002	0.257	0.445	0.00897	0.0097	< 0.000007	< 0.000007	8.33	< 0.000003
55: AMQ-ENV15-097	< 0.6	< 0.2	0.05	< 0.00001	< 0.000002	1.09	0.164	0.00234	0.0264	0.000007	< 0.000007	2.93	0.000003
56: AMQ-ENV15-110	< 0.6	< 0.2	< 0.03	< 0.00001	0.000002	0.618	0.0230	0.00733	0.0257	< 0.000007	< 0.000007	4.48	< 0.000003
57: AMQ-ENV15-106	< 0.6	0.6	< 0.03	< 0.00001	0.000002	0.979	0.0057	0.00173	0.104	< 0.000007	< 0.000007	2.32	< 0.000003
58: AMQ-ENV15-107	< 0.6	0.2	< 0.03	< 0.00001	< 0.000002	1.10	0.0221	0.00124	0.0508	< 0.000007	< 0.000007	1.92	< 0.000003
59: AMQ-ENV15-108	< 0.6	0.2	0.03	< 0.00001	< 0.000002	1.41	0.0544	0.00378	0.0351	< 0.000007	< 0.000007	2.46	< 0.000003
60: AMQ-ENV15-064	< 0.6	< 0.2	0.05	< 0.00001	0.000004	0.817	0.108	0.00345	0.0376	< 0.000007	< 0.000007	3.60	< 0.000003
61: AMQ-ENV15-065	< 0.6	< 0.2	0.04	< 0.00001	< 0.000002	1.39	0.0418	0.00838	0.0419	0.000010	< 0.000007	2.32	< 0.000003
62: AMQ-ENV15-066	< 0.6	< 0.2	< 0.03	< 0.00001	0.000032	1.44	0.0369	0.0109	0.0410	0.000007	< 0.000007	4.02	< 0.000003
63: AMQ-ENV15-112	< 0.6	0.8	< 0.03	< 0.00001	0.000004	0.850	0.0451	0.00100	0.166	< 0.000007	< 0.000007	0.72	< 0.000003
64: AMQ-ENV15-049	< 0.6	0.4	< 0.03	< 0.00001	< 0.000002	0.077	0.0045	0.0123	0.0219	< 0.000007	< 0.000007	4.42	< 0.000003
65: AMQ-ENV15-048	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	1.08	0.0212	0.00231	0.0241	< 0.000007	< 0.000007	4.08	< 0.000003
66: AMQ-ENV15-025	< 0.6	< 0.2	< 0.03	< 0.00001	0.000008	0.073	0.0447	0.00962	0.0182	< 0.000007	0.000010	5.39	< 0.000003
67: AMQ-ENV15-054	< 0.6	< 0.2	< 0.03	< 0.00001	0.000075	0.128	0.0015	0.00808	0.0217	< 0.000007	0.000008	33.9	< 0.000003
68: AMQ-ENV15-073	< 0.6	< 0.2	< 0.03	< 0.00001	0.000002	0.874	0.0705	0.00895	0.0304	0.000008	< 0.000007	3.04	< 0.000003
69: AMQ-ENV15-075	< 0.6	0.2	0.03	< 0.00001	< 0.000002	0.813	0.0575	0.00281	0.0497	< 0.000007	< 0.000007	3.88	< 0.000003
70: AMQ-ENV15-074	< 0.6	< 0.2	0.04	< 0.00001	< 0.000002	1.42	0.0396	0.00235	0.0336	< 0.000007	< 0.000007	2.28	< 0.000003
71: AMQ-ENV15-002	< 0.6	< 0.2	0.03	< 0.00001	< 0.000002	0.421	0.0241	0.0123	0.0270	< 0.000007	< 0.000007	6.30	< 0.000003
72: AMQ-ENV15-100	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	1.03	0.0124	0.00392	0.0283	< 0.000007	< 0.000007	3.01	< 0.000003
73: AMQ-ENV15-077	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	1.04	0.0212	0.00828	0.0239	< 0.000007	< 0.000007	3.73	< 0.000003
74: AMQ-ENV15-019	< 0.6	< 0.2	< 0.03	< 0.00001	0.000021	0.027	0.0204	0.0250	0.0603	< 0.000007	< 0.000007	15.1	< 0.000003
75: AMQ-ENV15-046	< 0.6	< 0.2	< 0.03	< 0.00001	0.000009	0.050	0.0016	0.0190	0.0490	< 0.000007	< 0.000007	13.5	< 0.000003
76: AMQ-ENV15-037	< 0.6	< 0.2	0.05	< 0.00001	< 0.000002	0.017	0.119	0.0211	0.0305	0.000098	< 0.000007	7.70	0.000008
77: AMQ-ENV15-007	< 0.6	< 0.2	< 0.03	< 0.00001	0.000018	0.039	0.136	0.0238	0.0191	< 0.000007	< 0.000007	7.36	< 0.000003

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LR Report :

CA15169-AUG15

Sample ID	NO3 as N mg/L	Cr(VI) µg/L	Tot.Reactive P mg/L	Hg mg/L	Ag mg/L	Al mg/L	As mg/L	Ba mg/L	B mg/L	Be mg/L	Bi mg/L	Ca mg/L	Cd mg/L
78: AMQ-ENV15-092	< 0.6	< 0.2	< 0.03	< 0.00001	0.000009	0.020	0.114	0.0113	0.0171	< 0.000007	< 0.000007	9.30	< 0.000003
79: AMQ-ENV15-122	< 0.6	0.6	0.19	< 0.00001	< 0.000002	0.067	0.945	0.0175	0.0141	< 0.000007	< 0.000007	1.98	< 0.000003
80: AMQ-ENV15-088	< 0.6	< 0.2	< 0.03	< 0.00001	0.000002	0.107	0.0218	0.0140	0.0244	< 0.000007	< 0.000007	13.9	< 0.000003
81: AMQ-ENV15-095	< 0.6	< 0.2	< 0.03	< 0.00001	0.000004	0.506	0.0563	0.00709	0.0199	< 0.000007	< 0.000007	8.68	< 0.000003
82: AMQ-ENV15-096	< 0.6	< 0.2	< 0.03	< 0.00001	0.000219	1.33	0.0404	0.00715	0.0211	0.000008	0.000038	3.03	< 0.000003
83: AMQ-ENV15-085	< 0.6	< 0.2	< 0.03	< 0.00001	0.000008	0.383	0.133	0.00865	0.0160	< 0.000007	0.000024	9.09	< 0.000003
84: AMQ-ENV15-058	< 0.6	< 0.2	< 0.03	< 0.00001	0.000024	0.052	0.0121	0.0159	0.0280	< 0.000007	0.000018	19.7	0.000003
85: AMQ-ENV15-056	< 0.6	< 0.2	< 0.03	< 0.00001	0.000009	1.01	0.0600	0.0109	0.0271	0.000008	0.000017	5.85	< 0.000003
86: AMQ-ENV15-115	< 0.6	< 0.2	< 0.03	< 0.00001	0.000002	0.189	0.0603	0.00131	0.0443	< 0.000007	0.000011	1.98	< 0.000003
87: AMQ-ENV15-111	< 0.6	0.4	0.15	< 0.00001	< 0.000002	0.015	0.926	0.00416	0.0140	< 0.000007	< 0.000007	6.75	< 0.000003
88: AMQ-ENV15-124	< 0.6	3.3	1.57	< 0.00001	< 0.000002	0.018	4.72	0.0196	0.0479	< 0.000007	< 0.000007	4.57	< 0.000003
89: AMQ-ENV15-123	< 0.6	0.6	0.28	< 0.00001	< 0.000002	0.018	1.52	0.0827	0.0171	< 0.000007	< 0.000007	6.18	< 0.000003
90: AMQ-ENV15-116	< 0.6	< 0.2	< 0.03	< 0.00001	0.000010	0.641	0.0104	0.00580	0.0484	0.000023	0.000009	0.37	0.000006
91: AMQ-ENV15-130	< 0.6	< 0.2	< 0.03	< 0.00001	0.000021	0.716	0.0027	0.0110	0.0594	0.000075	0.000018	1.80	0.000013
92: AMQ-ENV15-131	< 0.6	< 0.2	< 0.03	< 0.00001	0.000009	0.332	0.0054	0.00447	0.0367	0.000023	0.000009	0.13	0.000003
93: AMQ-ENV15-132	< 0.6	< 0.2	< 0.03	< 0.00001	0.000005	0.438	0.0019	0.00708	0.0333	0.000043	0.000009	0.12	0.000004
94: AMQ-ENV15-117	< 0.6	< 0.2	< 0.03	< 0.00001	0.000019	1.06	0.0030	0.0109	0.0428	0.000041	0.000012	0.27	0.000006
95: AMQ-ENV15-118	< 0.6	0.2	< 0.03	< 0.00001	0.000008	0.456	0.0025	0.00697	0.0325	0.000032	0.000010	1.02	0.000004
96: AMQ-ENV15-119	< 0.6	< 0.2	< 0.03	< 0.00001	0.000014	0.906	0.0047	0.00904	0.0387	0.000039	0.000018	0.31	0.000003
97: AMQ-ENV15-125	< 0.6	< 0.2	< 0.03	< 0.00001	0.000008	0.539	0.0016	0.0112	0.0348	0.000052	0.000038	1.16	0.000005
98: AMQ-ENV15-126	< 0.6	< 0.2	< 0.03	0.00006	0.000009	0.354	0.0016	0.00362	0.0331	0.000028	0.000011	< 0.01	0.000003
99: AMQ-ENV15-127	< 0.6	< 0.2	< 0.03	< 0.00001	0.000005	0.460	0.0035	0.00867	0.0326	0.000040	0.000016	0.53	0.000003
100: AMQ-ENV15-128	< 0.6	< 0.2	< 0.03	< 0.00001	0.000010	0.969	0.0018	0.0117	0.0423	0.000061	0.000026	0.27	0.000007
101: AMQ-ENV15-129	< 0.6	< 0.2	< 0.03	< 0.00001	0.000004	0.516	0.0035	0.00523	0.0486	0.000033	0.000010	0.25	0.000009
102: AMQ-ENV15-105	< 0.6	1.3	0.72	< 0.00001	< 0.000002	0.022	1.97	0.0114	0.0673	< 0.000007	< 0.000007	5.10	< 0.000003
103: AMQ-ENV15-121	< 0.6	0.3	0.17	< 0.00001	0.000164	0.029	0.985	0.0297	0.0631	< 0.000007	0.000009	6.97	< 0.000003
104: AMQ-ENV15-068	< 0.6	0.7	0.25	< 0.00001	0.000033	0.048	1.19	0.0210	0.0622	< 0.000007	< 0.000007	4.64	< 0.000003
105: AMQ-ENV15-051	< 0.6	0.9	0.77	< 0.00001	< 0.000002	0.022	2.37	0.0302	0.0512	< 0.000007	< 0.000007	6.43	< 0.000003
106: AMQ-ENV15-071	< 0.6	< 0.2	< 0.03	< 0.00001	0.000003	0.045	0.268	0.0211	0.0534	< 0.000007	< 0.000007	3.90	< 0.000003
107: AMQ-ENV15-084	< 0.6	< 0.2	< 0.03	< 0.00001	< 0.000002	0.016	0.209	0.0165	0.0519	< 0.000007	< 0.000007	8.89	< 0.000003
108: AMQ-ENV15-083	< 0.6	0.7	0.05	< 0.00001	0.000005	0.035	0.521	0.0122	0.0497	< 0.000007	< 0.000007	2.13	< 0.000003
109: AMQ-ENV15-050	< 0.6	1.4	0.87	< 0.00001	< 0.000002	0.114	2.09	0.0119	0.0241	< 0.000007	< 0.000007	3.00	< 0.000003
110: AMQ-ENV15-044	< 0.6	0.8	< 0.03	< 0.00001	< 0.000002	0.048	0.0197	0.0196	0.0414	< 0.000007	< 0.000007	4.49	< 0.000003
111: AMQ-ENV15-070	< 0.6	0.8	< 0.03	< 0.00001	< 0.000002	0.101	0.0919	0.0122	0.0690	< 0.000007	< 0.000007	2.23	< 0.000003
112: AMQ-ENV15-072	< 0.6	2.0	0.41	< 0.00001	< 0.000002	0.040	1.37	0.0150	0.0493	< 0.000007	< 0.000007	3.36	< 0.000003
113: AMQ-ENV15-120	< 0.6	< 0.2	0.04	< 0.00001	0.000006	1.72	0.213	0.00847	0.0311	0.000021	< 0.000007	2.53	< 0.000003
114: AMQ-ENV15-113	< 0.6	< 0.2	0.08	< 0.00001	0.000003	1.50	0.199	0.00766	0.0280	0.000012	< 0.000007	2.54	0.000003