

REPORTED TO Allterra Construction
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WORK ORDER 6110509

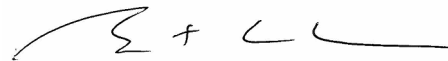
PO NUMBER P15-06 SIRM
PROJECT SIRM 460 Stebbings
PROJECT INFO

RECEIVED / TEMP 2016-11-07 13:10 / 7°C
REPORTED 2016-11-15
COC NUMBER B33095

General Comments:

CARO Analytical Services employs methods which are conducted according to procedures accepted by appropriate regulatory agencies, and/or are conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts, except where otherwise agreed to by the client.

The results in this report apply to the samples analyzed in accordance with the Chain of Custody or Sample Requisition document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued unless otherwise agreed to in writing.



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PROJECT SIRM 460 Stebbings

WORK ORDER 6110509
REPORTED 2016-11-15

Analysis Information Analysis Descriptions, Method References, Glossary of Terms	Page 3
Sample Analytical Data Test Results, Reporting Limits, Analysis Dates, Sample & Analysis Notes	Page 4
Quality Control Data Method Blanks, Duplicates, Spikes, Reference Materials	Appendix 1
Analytical Summary Tabulated data in condensed format to assist with comparisons	Appendix 2
Chain of Custody Document Analysis instructions provided by client	Appendix 5

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6110509
2016-11-15

Analysis Description	Method Reference	Technique	Location
Alkalinity in Water	APHA 2320 B*	Titration with H2SO4	Kelowna
Anions by IC in Water	APHA 4110 B	Ion Chromatography with Chemical Suppression of Eluent Conductivity	Kelowna
Chromium, Hexavalent (Total) in Water	APHA 3500-Cr B	Colorimetry	Richmond
Colour, True in Water	APHA 2120 C	Spectrophotometry (456 nm)	Kelowna
Conductivity in Water	APHA 2510 B	Conductivity Meter	Kelowna
Dissolved Metals by ICPMS in Water	APHA 3030 B / APHA 3125 B	0.45 µm Filtration / Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	Richmond
EPH in Water	EPA 3511* / BCMOE EPHw	Hexane MicroExtraction (Base/Neutral) / Gas Chromatography (GC-FID)	Richmond
Glycols in Water	EPA 8015B*	Gas Chromatography (GC-FID)	Richmond
Hardness (as CaCO3) in Water	APHA 2340 B	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	N/A
Hardness (as CaCO3) in Water	APHA 2340 B*	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Estimated)	N/A
HEPHw in Water	BCMOE LEPH/HEPH	Calculation	N/A
LEPHw in Water	BCMOE LEPH/HEPH	Calculation	N/A
Mercury, dissolved by CVAFS in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	Richmond
Mercury, total by CVAFS in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	Richmond
pH in Water	APHA 4500-H+ B	Electrometry	Kelowna
Polycyclic Aromatic Hydrocarbons in Water	EPA 3511* / EPA 8270D	Hexane MicroExtraction (Base/Neutral) / GC-MS (SIM)	Richmond
Solids, Total Dissolved in Water	APHA 2540 C*	Gravimetry (Dried at 103-105C)	Kelowna
Solids, Total Suspended in Water	APHA 2540 D*	Gravimetry (Dried at 103-105C)	Kelowna
Total Metals by ICPMS in Water	APHA 3030E* / APHA 3125 B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	Richmond
Turbidity in Water	APHA 2130 B	Nephelometry	Richmond
Volatile Organic Compounds in Water	EPA 5030B / EPA 8260B	Purge&Trap / GC-MS (SIM)	Richmond

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

Method Reference Descriptions:

APHA Standard Methods for the Examination of Water and Wastewater, 22nd Edition, American Public Health Association/American Water Works Association/Water Environment Federation
 BCMOE British Columbia Environmental Laboratory Manual, 2013, British Columbia Ministry of Environment
 EPA United States Environmental Protection Agency Test Methods

Glossary of Terms:

MRL Method Reporting Limit
 < Less than the Reported Detection Limit (RDL) - the RDL may be higher than the MRL due to various factors such as dilutions, limited sample volume, high moisture, or interferences
 CU Colour Units (referenced against a platinum cobalt standard)
 mg/L Milligrams per litre
 NTU Nephelometric Turbidity Units
 pH units pH < 7 = acidic, pH > 7 = basic
 µg/L Micrograms per litre
 µS/cm Microsiemens per centimetre

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6110509
2016-11-15

Analyte	Result / Recovery	Estimate of Uncertainty	MRL / Limits	Units	Prepared	Analyzed	Notes
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Sample ID: Weir (6110509-01) [Water] Sampled: 2016-11-05 08:00

Anions

Chloride	0.37	± 0.03	0.10	mg/L	N/A	2016-11-08	
Fluoride	< 0.10		0.10	mg/L	N/A	2016-11-08	
Nitrate (as N)	< 0.010		0.010	mg/L	N/A	2016-11-08	
Nitrite (as N)	< 0.010		0.010	mg/L	N/A	2016-11-08	
Sulfate	2.2	± 0.3	1.0	mg/L	N/A	2016-11-08	

General Parameters

Alkalinity, Total (as CaCO3)	40	± 2	1	mg/L	N/A	2016-11-09	
Alkalinity, Phenolphthalein (as CaCO3)	< 1		1	mg/L	N/A	2016-11-09	
Alkalinity, Bicarbonate (as CaCO3)	40	± 2	1	mg/L	N/A	2016-11-09	
Alkalinity, Carbonate (as CaCO3)	< 1		1	mg/L	N/A	2016-11-09	
Alkalinity, Hydroxide (as CaCO3)	< 1		1	mg/L	N/A	2016-11-09	
Chromium, Hexavalent	< 0.001		0.001	mg/L	N/A	2016-11-14	
Colour, True	< 5		5	CU	N/A	2016-11-08	
Conductivity (EC)	393	± 6	2	µS/cm	N/A	2016-11-09	
pH	7.58	± 0.02	0.01	pH units	N/A	2016-11-09	HT2
Solids, Total Dissolved	223	± 21	10	mg/L	N/A	2016-11-09	
Solids, Total Suspended	63	± 5	2	mg/L	N/A	2016-11-09	
Turbidity	82.4	± 10.3	0.10	NTU	N/A	2016-11-08	

Calculated Parameters

Chromium, Trivalent	0.0108		0.0010	mg/L	N/A	N/A	
Hardness, Total (as CaCO3)	126		0.50	mg/L	N/A	N/A	

Dissolved Metals

Aluminum, dissolved	0.015	± 0.003	0.005	mg/L	N/A	2016-11-11	
Antimony, dissolved	0.0003	± 0.0001	0.0001	mg/L	N/A	2016-11-11	
Arsenic, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-11-11	
Barium, dissolved	0.009	± 0.001	0.005	mg/L	N/A	2016-11-11	
Beryllium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-11	
Bismuth, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-11	
Boron, dissolved	0.019	± 0.003	0.004	mg/L	N/A	2016-11-11	
Cadmium, dissolved	< 0.00001		0.00001	mg/L	N/A	2016-11-11	
Calcium, dissolved	39.5	± 6.1	0.2	mg/L	N/A	2016-11-11	
Chromium, dissolved	0.0010	± 0.0002	0.0005	mg/L	N/A	2016-11-11	
Cobalt, dissolved	0.00013	± 0.00002	0.00005	mg/L	N/A	2016-11-11	
Copper, dissolved	0.0006	± 0.0003	0.0002	mg/L	N/A	2016-11-11	
Iron, dissolved	< 0.010		0.010	mg/L	N/A	2016-11-11	
Lead, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-11	
Lithium, dissolved	0.0001		0.0001	mg/L	N/A	2016-11-11	
Magnesium, dissolved	6.69	± 1.08	0.01	mg/L	N/A	2016-11-11	
Manganese, dissolved	0.0091	± 0.0010	0.0002	mg/L	N/A	2016-11-11	
Mercury, dissolved	< 0.00002		0.00002	mg/L	2016-11-08	2016-11-08	
Molybdenum, dissolved	0.0006	± 0.0001	0.0001	mg/L	N/A	2016-11-11	
Nickel, dissolved	0.0010	± 0.0002	0.0002	mg/L	N/A	2016-11-11	
Phosphorus, dissolved	< 0.02		0.02	mg/L	N/A	2016-11-11	

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SIRM 460 Stebbings

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Sample ID: Weir (6110509-01) [Water] Sampled: 2016-11-05 08:00, Continued

Dissolved Metals, Continued

Potassium, dissolved	1.27	± 0.20	0.02	mg/L	N/A	2016-11-11	
Selenium, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-11-11	
Silicon, dissolved	2.5	± 1.1	0.5	mg/L	N/A	2016-11-11	
Silver, dissolved	< 0.00005		0.00005	mg/L	N/A	2016-11-11	
Sodium, dissolved	25.6	± 3.9	0.02	mg/L	N/A	2016-11-11	
Strontium, dissolved	0.151	± 0.015	0.001	mg/L	N/A	2016-11-11	
Sulfur, dissolved	25	± 130	1	mg/L	N/A	2016-11-11	
Tellurium, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-11-11	
Thallium, dissolved	< 0.00002		0.00002	mg/L	N/A	2016-11-11	
Thorium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-11	
Tin, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-11-11	
Titanium, dissolved	< 0.005		0.005	mg/L	N/A	2016-11-11	
Uranium, dissolved	0.00040	± 0.00005	0.00002	mg/L	N/A	2016-11-11	
Vanadium, dissolved	< 0.001		0.001	mg/L	N/A	2016-11-11	
Zinc, dissolved	< 0.004		0.004	mg/L	N/A	2016-11-11	
Zirconium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-11	

Total Metals

Aluminum, total	5.68	± 1.03	0.005	mg/L	2016-11-09	2016-11-11	
Antimony, total	0.0003	± 0.0001	0.0001	mg/L	2016-11-09	2016-11-11	
Arsenic, total	0.0013	± 0.0002	0.0005	mg/L	2016-11-09	2016-11-11	
Barium, total	0.035	± 0.005	0.005	mg/L	2016-11-09	2016-11-11	
Beryllium, total	0.0001	± 0.0001	0.0001	mg/L	2016-11-09	2016-11-11	
Bismuth, total	< 0.0001		0.0001	mg/L	2016-11-09	2016-11-11	
Boron, total	0.026	± 0.005	0.004	mg/L	2016-11-09	2016-11-11	
Cadmium, total	0.00003	± 0.00002	0.00001	mg/L	2016-11-09	2016-11-11	
Calcium, total	42.0	± 5.1	0.2	mg/L	2016-11-09	2016-11-11	
Chromium, total	0.0108	± 0.0015	0.0005	mg/L	2016-11-09	2016-11-11	
Cobalt, total	0.00302	± 0.00027	0.00005	mg/L	2016-11-09	2016-11-11	
Copper, total	0.0121	± 0.0014	0.0002	mg/L	2016-11-09	2016-11-11	
Iron, total	6.34	± 1.25	0.01	mg/L	2016-11-09	2016-11-11	
Lead, total	0.0031	± 0.0003	0.0001	mg/L	2016-11-09	2016-11-11	
Lithium, total	0.0029	± 0.0004	0.0001	mg/L	2016-11-09	2016-11-11	
Magnesium, total	8.49	± 1.29	0.01	mg/L	2016-11-09	2016-11-11	
Manganese, total	0.116	± 0.010	0.0002	mg/L	2016-11-09	2016-11-11	
Mercury, total	< 0.00002		0.00002	mg/L	2016-11-08	2016-11-08	
Molybdenum, total	0.0007	± 0.0001	0.0001	mg/L	2016-11-09	2016-11-11	
Nickel, total	0.0091	± 0.0009	0.0002	mg/L	2016-11-09	2016-11-11	
Phosphorus, total	0.10	± 1.19	0.02	mg/L	2016-11-09	2016-11-11	
Potassium, total	1.82	± 0.23	0.02	mg/L	2016-11-09	2016-11-11	
Selenium, total	< 0.0005		0.0005	mg/L	2016-11-09	2016-11-11	
Silicon, total	11.3	± 4.1	0.5	mg/L	2016-11-09	2016-11-11	
Silver, total	< 0.00005		0.00005	mg/L	2016-11-09	2016-11-11	
Sodium, total	26.0	± 3.8	0.02	mg/L	2016-11-09	2016-11-11	
Strontium, total	0.161	± 0.015	0.001	mg/L	2016-11-09	2016-11-11	
Sulfur, total	25	± 379	1	mg/L	2016-11-09	2016-11-11	

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SIRM 460 Stebbings

WORK ORDER REPORTED 6110509
2016-11-15

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Sample ID: Weir (6110509-01) [Water] Sampled: 2016-11-05 08:00, Continued

Total Metals, Continued

Tellurium, total	< 0.0002		0.0002	mg/L	2016-11-09	2016-11-11	
Thallium, total	0.00002		0.00002	mg/L	2016-11-09	2016-11-11	
Thorium, total	0.0001		0.0001	mg/L	2016-11-09	2016-11-11	
Tin, total	0.0003	± 0.0001	0.0002	mg/L	2016-11-09	2016-11-11	
Titanium, total	0.280	± 0.038	0.005	mg/L	2016-11-09	2016-11-11	
Uranium, total	0.00055	± 0.00004	0.00002	mg/L	2016-11-09	2016-11-11	
Vanadium, total	0.016	± 0.002	0.001	mg/L	2016-11-09	2016-11-11	
Zinc, total	0.018	± 0.003	0.004	mg/L	2016-11-09	2016-11-11	
Zirconium, total	0.0005	± 0.0001	0.0001	mg/L	2016-11-09	2016-11-11	

BCMEOE Aggregate Hydrocarbons

EPHw10-19	< 250		250	µg/L	2016-11-08	2016-11-08	
EPHw19-32	< 250		250	µg/L	2016-11-08	2016-11-08	
LEPHw	< 250		250	µg/L	N/A	N/A	
HEPHw	< 250		250	µg/L	N/A	N/A	
Surrogate: 2-Methylnonane	100		60-140	%	2016-11-08	2016-11-08	

Glycols

Propylene glycol	< 5		5	mg/L	N/A	2016-11-09	
Ethylene glycol	< 5		5	mg/L	N/A	2016-11-09	
Diethylene glycol	< 5		5	mg/L	N/A	2016-11-09	
Triethylene glycol	< 5		5	mg/L	N/A	2016-11-09	
Surrogate: Tetramethylene Glycol	101		66-125	%	N/A	2016-11-09	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.05		0.05	µg/L	2016-11-08	2016-11-09	
Acenaphthylene	< 0.20		0.20	µg/L	2016-11-08	2016-11-09	
Acridine	< 0.10		0.10	µg/L	2016-11-08	2016-11-09	
Anthracene	< 0.01		0.01	µg/L	2016-11-08	2016-11-09	
Benz (a) anthracene	< 0.01		0.01	µg/L	2016-11-08	2016-11-09	
Benzo (a) pyrene	< 0.01		0.01	µg/L	2016-11-08	2016-11-09	
Benzo (b) fluoranthene	< 0.05		0.05	µg/L	2016-11-08	2016-11-09	
Benzo (g,h,i) perylene	< 0.05		0.05	µg/L	2016-11-08	2016-11-09	
Benzo (k) fluoranthene	< 0.05		0.05	µg/L	2016-11-08	2016-11-09	
Chrysene	< 0.05		0.05	µg/L	2016-11-08	2016-11-09	
Dibenz (a,h) anthracene	< 0.05		0.05	µg/L	2016-11-08	2016-11-09	
Fluoranthene	< 0.03		0.03	µg/L	2016-11-08	2016-11-09	
Fluorene	< 0.05		0.05	µg/L	2016-11-08	2016-11-09	
Indeno (1,2,3-cd) pyrene	< 0.05		0.05	µg/L	2016-11-08	2016-11-09	
Naphthalene	< 0.20		0.20	µg/L	2016-11-08	2016-11-09	
Phenanthrene	< 0.10		0.10	µg/L	2016-11-08	2016-11-09	
Pyrene	< 0.02		0.02	µg/L	2016-11-08	2016-11-09	
Quinoline	< 0.10		0.10	µg/L	2016-11-08	2016-11-09	
Surrogate: Acridine-d9	49		60-130	%	2016-11-08	2016-11-09	S02
Surrogate: Naphthalene-d8	96		60-130	%	2016-11-08	2016-11-09	
Surrogate: Perylene-d12	103		60-130	%	2016-11-08	2016-11-09	

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SIRM 460 Stebbings

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Sample ID: Weir (6110509-01) [Water] Sampled: 2016-11-05 08:00, Continued

Volatile Organic Compounds (VOC)							
Benzene	< 0.5		0.5	µg/L	N/A	2016-11-09	
Bromodichloromethane	< 1.0		1.0	µg/L	N/A	2016-11-09	
Bromoform	< 1.0		1.0	µg/L	N/A	2016-11-09	
Bromomethane	< 2.0		2.0	µg/L	N/A	2016-11-09	
Carbon tetrachloride	< 1.0		1.0	µg/L	N/A	2016-11-09	
Chlorobenzene	< 1.0		1.0	µg/L	N/A	2016-11-09	
Chloroethane	< 2.0		2.0	µg/L	N/A	2016-11-09	
Chloroform	< 1.0		1.0	µg/L	N/A	2016-11-09	
Chloromethane	< 2.0		2.0	µg/L	N/A	2016-11-09	
Dibromochloromethane	< 1.0		1.0	µg/L	N/A	2016-11-09	
1,2-Dibromoethane	< 0.3		0.3	µg/L	N/A	2016-11-09	
Dibromomethane	< 1.0		1.0	µg/L	N/A	2016-11-09	
1,2-Dichlorobenzene	< 0.5		0.5	µg/L	N/A	2016-11-09	
1,3-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-11-09	
1,4-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-11-09	
1,1-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-11-09	
1,2-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-11-09	
1,1-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-11-09	
cis-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-11-09	
trans-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-11-09	
1,2-Dichloropropane	< 1.0		1.0	µg/L	N/A	2016-11-09	
cis-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-11-09	
trans-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-11-09	
Ethylbenzene	< 1.0		1.0	µg/L	N/A	2016-11-09	
Methyl tert-butyl ether	< 1.0		1.0	µg/L	N/A	2016-11-09	
Methylene chloride	< 3.0		3.0	µg/L	N/A	2016-11-09	
Styrene	< 1.0		1.0	µg/L	N/A	2016-11-09	
1,1,1,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-11-09	
1,1,2,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-11-09	
Tetrachloroethene	< 1.0		1.0	µg/L	N/A	2016-11-09	
Toluene	< 1.0		1.0	µg/L	N/A	2016-11-09	
1,1,1-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-11-09	
1,1,2-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-11-09	
Trichloroethene	< 1.0		1.0	µg/L	N/A	2016-11-09	
Trichlorofluoromethane	< 1.0		1.0	µg/L	N/A	2016-11-09	
Vinyl chloride	< 2.0		2.0	µg/L	N/A	2016-11-09	
Xylenes (total)	< 2.0		2.0	µg/L	N/A	2016-11-09	
Surrogate: Toluene-d8	104		70-130	%	N/A	2016-11-09	
Surrogate: 4-Bromofluorobenzene	96		70-130	%	N/A	2016-11-09	
Surrogate: 1,4-Dichlorobenzene-d4	94		70-130	%	N/A	2016-11-09	

Sample ID: SW-1 (6110509-02) [Water] Sampled: 2016-11-05 08:15

Anions							
Chloride	47.3 ± 2.2		0.10	mg/L	N/A	2016-11-08	

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SIRM 460 Stebbings

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Sample ID: SW-1 (6110509-02) [Water] Sampled: 2016-11-05 08:15, Continued

Anions, Continued

Fluoride	< 0.10		0.10	mg/L	N/A	2016-11-08	
Nitrate (as N)	0.630	± 0.079	0.010	mg/L	N/A	2016-11-08	
Nitrite (as N)	< 0.010		0.010	mg/L	N/A	2016-11-08	
Sulfate	92.6	± 11.0	1.0	mg/L	N/A	2016-11-08	

General Parameters

Alkalinity, Total (as CaCO3)	59	± 3	1	mg/L	N/A	2016-11-09	
Alkalinity, Phenolphthalein (as CaCO3)	< 1		1	mg/L	N/A	2016-11-09	
Alkalinity, Bicarbonate (as CaCO3)	59	± 3	1	mg/L	N/A	2016-11-09	
Alkalinity, Carbonate (as CaCO3)	< 1		1	mg/L	N/A	2016-11-09	
Alkalinity, Hydroxide (as CaCO3)	< 1		1	mg/L	N/A	2016-11-09	
Chromium, Hexavalent	< 0.001		0.001	mg/L	N/A	2016-11-14	
Colour, True	< 5		5	CU	N/A	2016-11-08	
Conductivity (EC)	518	± 8	2	µS/cm	N/A	2016-11-09	
pH	7.61	± 0.02	0.01	pH units	N/A	2016-11-09	HT2
Solids, Total Dissolved	321	± 30	10	mg/L	N/A	2016-11-09	
Solids, Total Suspended	20	± 2	2	mg/L	N/A	2016-11-09	
Turbidity	19.6	± 2.5	0.10	NTU	N/A	2016-11-08	

Calculated Parameters

Chromium, Trivalent	0.0031		0.0010	mg/L	N/A	N/A	
Hardness, Total (as CaCO3)	186		0.50	mg/L	N/A	N/A	

Dissolved Metals

Aluminum, dissolved	0.007	± 0.002	0.005	mg/L	N/A	2016-11-11	
Antimony, dissolved	0.0003	± 0.0001	0.0001	mg/L	N/A	2016-11-11	
Arsenic, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-11-11	
Barium, dissolved	0.014	± 0.002	0.005	mg/L	N/A	2016-11-11	
Beryllium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-11	
Bismuth, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-11	
Boron, dissolved	0.026	± 0.005	0.004	mg/L	N/A	2016-11-11	
Cadmium, dissolved	< 0.00001		0.00001	mg/L	N/A	2016-11-11	
Calcium, dissolved	58.3	± 9.0	0.2	mg/L	N/A	2016-11-11	
Chromium, dissolved	0.0009	± 0.0002	0.0005	mg/L	N/A	2016-11-11	
Cobalt, dissolved	0.00010	± 0.00001	0.00005	mg/L	N/A	2016-11-11	
Copper, dissolved	0.0011	± 0.0004	0.0002	mg/L	N/A	2016-11-11	
Iron, dissolved	< 0.010		0.010	mg/L	N/A	2016-11-11	
Lead, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-11	
Lithium, dissolved	0.0002	± 0.0001	0.0001	mg/L	N/A	2016-11-11	
Magnesium, dissolved	9.85	± 1.59	0.01	mg/L	N/A	2016-11-11	
Manganese, dissolved	0.0064	± 0.0007	0.0002	mg/L	N/A	2016-11-11	
Mercury, dissolved	< 0.00002		0.00002	mg/L	2016-11-08	2016-11-08	
Molybdenum, dissolved	0.0012	± 0.0001	0.0001	mg/L	N/A	2016-11-11	
Nickel, dissolved	0.0008	± 0.0002	0.0002	mg/L	N/A	2016-11-11	
Phosphorus, dissolved	< 0.02		0.02	mg/L	N/A	2016-11-11	
Potassium, dissolved	1.61	± 0.25	0.02	mg/L	N/A	2016-11-11	

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6110509
2016-11-15

Analyte	Result / Recovery	Estimate of Uncertainty	MRL / Limits	Units	Prepared	Analyzed	Notes
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Sample ID: SW-1 (6110509-02) [Water] Sampled: 2016-11-05 08:15, Continued

Dissolved Metals, Continued

Selenium, dissolved	< 0.0005		0.0005	mg/L	N/A	2016-11-11	
Silicon, dissolved	4.2	± 1.9	0.5	mg/L	N/A	2016-11-11	
Silver, dissolved	< 0.00005		0.00005	mg/L	N/A	2016-11-11	
Sodium, dissolved	28.2	± 4.3	0.02	mg/L	N/A	2016-11-11	
Strontium, dissolved	0.210	± 0.021	0.001	mg/L	N/A	2016-11-11	
Sulfur, dissolved	36	± 190	1	mg/L	N/A	2016-11-11	
Tellurium, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-11-11	
Thallium, dissolved	< 0.00002		0.00002	mg/L	N/A	2016-11-11	
Thorium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-11	
Tin, dissolved	< 0.0002		0.0002	mg/L	N/A	2016-11-11	
Titanium, dissolved	< 0.005		0.005	mg/L	N/A	2016-11-11	
Uranium, dissolved	0.00063	± 0.00008	0.00002	mg/L	N/A	2016-11-11	
Vanadium, dissolved	< 0.001		0.001	mg/L	N/A	2016-11-11	
Zinc, dissolved	< 0.004		0.004	mg/L	N/A	2016-11-11	
Zirconium, dissolved	< 0.0001		0.0001	mg/L	N/A	2016-11-11	

Total Metals

Aluminum, total	1.52	± 0.28	0.005	mg/L	2016-11-09	2016-11-11	
Antimony, total	0.0003	± 0.0001	0.0001	mg/L	2016-11-09	2016-11-11	
Arsenic, total	< 0.0005		0.0005	mg/L	2016-11-09	2016-11-11	
Barium, total	0.022	± 0.003	0.005	mg/L	2016-11-09	2016-11-11	
Beryllium, total	< 0.0001		0.0001	mg/L	2016-11-09	2016-11-11	
Bismuth, total	< 0.0001		0.0001	mg/L	2016-11-09	2016-11-11	
Boron, total	0.030	± 0.006	0.004	mg/L	2016-11-09	2016-11-11	
Cadmium, total	0.00001	± 0.00002	0.00001	mg/L	2016-11-09	2016-11-11	
Calcium, total	58.5	± 7.1	0.2	mg/L	2016-11-09	2016-11-11	
Chromium, total	0.0031	± 0.0004	0.0005	mg/L	2016-11-09	2016-11-11	
Cobalt, total	0.00086	± 0.00008	0.00005	mg/L	2016-11-09	2016-11-11	
Copper, total	0.0046	± 0.0005	0.0002	mg/L	2016-11-09	2016-11-11	
Iron, total	1.61	± 0.32	0.01	mg/L	2016-11-09	2016-11-11	
Lead, total	0.0008	± 0.0001	0.0001	mg/L	2016-11-09	2016-11-11	
Lithium, total	0.0009	± 0.0001	0.0001	mg/L	2016-11-09	2016-11-11	
Magnesium, total	10.4	± 1.6	0.01	mg/L	2016-11-09	2016-11-11	
Manganese, total	0.0344	± 0.0031	0.0002	mg/L	2016-11-09	2016-11-11	
Mercury, total	< 0.00002		0.00002	mg/L	2016-11-08	2016-11-08	
Molybdenum, total	0.0011	± 0.0001	0.0001	mg/L	2016-11-09	2016-11-11	
Nickel, total	0.0028	± 0.0003	0.0002	mg/L	2016-11-09	2016-11-11	
Phosphorus, total	< 0.02		0.02	mg/L	2016-11-09	2016-11-11	
Potassium, total	1.78	± 0.22	0.02	mg/L	2016-11-09	2016-11-11	
Selenium, total	< 0.0005		0.0005	mg/L	2016-11-09	2016-11-11	
Silicon, total	6.6	± 2.4	0.5	mg/L	2016-11-09	2016-11-11	
Silver, total	< 0.00005		0.00005	mg/L	2016-11-09	2016-11-11	
Sodium, total	28.7	± 4.2	0.02	mg/L	2016-11-09	2016-11-11	
Strontium, total	0.216	± 0.020	0.001	mg/L	2016-11-09	2016-11-11	
Sulfur, total	35	± 540	1	mg/L	2016-11-09	2016-11-11	
Tellurium, total	< 0.0002		0.0002	mg/L	2016-11-09	2016-11-11	

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6110509
2016-11-15

Analyte	Result / Estimate of Recovery	Uncertainty	MRL / Limits	Units	Prepared	Analyzed	Notes
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Sample ID: SW-1 (6110509-02) [Water] Sampled: 2016-11-05 08:15, Continued

Total Metals, Continued

Thallium, total	< 0.00002		0.00002	mg/L	2016-11-09	2016-11-11	
Thorium, total	< 0.0001		0.0001	mg/L	2016-11-09	2016-11-11	
Tin, total	0.0002	± 0.0001	0.0002	mg/L	2016-11-09	2016-11-11	
Titanium, total	0.083	± 0.011	0.005	mg/L	2016-11-09	2016-11-11	
Uranium, total	0.00068	± 0.00004	0.00002	mg/L	2016-11-09	2016-11-11	
Vanadium, total	0.005	± 0.001	0.001	mg/L	2016-11-09	2016-11-11	
Zinc, total	0.006	± 0.002	0.004	mg/L	2016-11-09	2016-11-11	
Zirconium, total	0.0003	± 0.0001	0.0001	mg/L	2016-11-09	2016-11-11	

BCMOE Aggregate Hydrocarbons

EPHw10-19	< 250		250	µg/L	2016-11-08	2016-11-08	
EPHw19-32	< 250		250	µg/L	2016-11-08	2016-11-08	
LEPHw	< 250		250	µg/L	N/A	N/A	
HEPHw	< 250		250	µg/L	N/A	N/A	
Surrogate: 2-Methylnonane	92		60-140	%	2016-11-08	2016-11-08	

Glycols

Propylene glycol	< 5		5	mg/L	N/A	2016-11-09	
Ethylene glycol	< 5		5	mg/L	N/A	2016-11-09	
Diethylene glycol	< 5		5	mg/L	N/A	2016-11-09	
Triethylene glycol	< 5		5	mg/L	N/A	2016-11-09	
Surrogate: Tetramethylene Glycol	105		66-125	%	N/A	2016-11-09	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.05		0.05	µg/L	2016-11-08	2016-11-09	
Acenaphthylene	< 0.20		0.20	µg/L	2016-11-08	2016-11-09	
Acridine	< 0.10		0.10	µg/L	2016-11-08	2016-11-09	
Anthracene	< 0.01		0.01	µg/L	2016-11-08	2016-11-09	
Benz (a) anthracene	< 0.01		0.01	µg/L	2016-11-08	2016-11-09	
Benzo (a) pyrene	< 0.01		0.01	µg/L	2016-11-08	2016-11-09	
Benzo (b) fluoranthene	< 0.05		0.05	µg/L	2016-11-08	2016-11-09	
Benzo (g,h,i) perylene	< 0.05		0.05	µg/L	2016-11-08	2016-11-09	
Benzo (k) fluoranthene	< 0.05		0.05	µg/L	2016-11-08	2016-11-09	
Chrysene	< 0.05		0.05	µg/L	2016-11-08	2016-11-09	
Dibenz (a,h) anthracene	< 0.05		0.05	µg/L	2016-11-08	2016-11-09	
Fluoranthene	< 0.03		0.03	µg/L	2016-11-08	2016-11-09	
Fluorene	< 0.05		0.05	µg/L	2016-11-08	2016-11-09	
Indeno (1,2,3-cd) pyrene	< 0.05		0.05	µg/L	2016-11-08	2016-11-09	
Naphthalene	< 0.20		0.20	µg/L	2016-11-08	2016-11-09	
Phenanthrene	< 0.10		0.10	µg/L	2016-11-08	2016-11-09	
Pyrene	< 0.02		0.02	µg/L	2016-11-08	2016-11-09	
Quinoline	< 0.10		0.10	µg/L	2016-11-08	2016-11-09	
Surrogate: Acridine-d9	51		60-130	%	2016-11-08	2016-11-09	S02
Surrogate: Naphthalene-d8	92		60-130	%	2016-11-08	2016-11-09	
Surrogate: Perylene-d12	102		60-130	%	2016-11-08	2016-11-09	

Volatile Organic Compounds (VOC)

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6110509
2016-11-15

Analyte	Result / Recovery	Estimate of Uncertainty	MRL / Limits	Units	Prepared	Analyzed	Notes
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Sample ID: SW-1 (6110509-02) [Water] Sampled: 2016-11-05 08:15, Continued

<i>Volatile Organic Compounds (VOC), Continued</i>							
Benzene	< 0.5		0.5	µg/L	N/A	2016-11-09	
Bromodichloromethane	< 1.0		1.0	µg/L	N/A	2016-11-09	
Bromoform	< 1.0		1.0	µg/L	N/A	2016-11-09	
Bromomethane	< 2.0		2.0	µg/L	N/A	2016-11-09	
Carbon tetrachloride	< 1.0		1.0	µg/L	N/A	2016-11-09	
Chlorobenzene	< 1.0		1.0	µg/L	N/A	2016-11-09	
Chloroethane	< 2.0		2.0	µg/L	N/A	2016-11-09	
Chloroform	< 1.0		1.0	µg/L	N/A	2016-11-09	
Chloromethane	< 2.0		2.0	µg/L	N/A	2016-11-09	
Dibromochloromethane	< 1.0		1.0	µg/L	N/A	2016-11-09	
1,2-Dibromoethane	< 0.3		0.3	µg/L	N/A	2016-11-09	
Dibromomethane	< 1.0		1.0	µg/L	N/A	2016-11-09	
1,2-Dichlorobenzene	< 0.5		0.5	µg/L	N/A	2016-11-09	
1,3-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-11-09	
1,4-Dichlorobenzene	< 1.0		1.0	µg/L	N/A	2016-11-09	
1,1-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-11-09	
1,2-Dichloroethane	< 1.0		1.0	µg/L	N/A	2016-11-09	
1,1-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-11-09	
cis-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-11-09	
trans-1,2-Dichloroethene	< 1.0		1.0	µg/L	N/A	2016-11-09	
1,2-Dichloropropane	< 1.0		1.0	µg/L	N/A	2016-11-09	
cis-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-11-09	
trans-1,3-Dichloropropene	< 1.0		1.0	µg/L	N/A	2016-11-09	
Ethylbenzene	< 1.0		1.0	µg/L	N/A	2016-11-09	
Methyl tert-butyl ether	< 1.0		1.0	µg/L	N/A	2016-11-09	
Methylene chloride	< 3.0		3.0	µg/L	N/A	2016-11-09	
Styrene	< 1.0		1.0	µg/L	N/A	2016-11-09	
1,1,1,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-11-09	
1,1,2,2-Tetrachloroethane	< 1.0		1.0	µg/L	N/A	2016-11-09	
Tetrachloroethene	< 1.0		1.0	µg/L	N/A	2016-11-09	
Toluene	< 1.0		1.0	µg/L	N/A	2016-11-09	
1,1,1-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-11-09	
1,1,2-Trichloroethane	< 1.0		1.0	µg/L	N/A	2016-11-09	
Trichloroethene	< 1.0		1.0	µg/L	N/A	2016-11-09	
Trichlorofluoromethane	< 1.0		1.0	µg/L	N/A	2016-11-09	
Vinyl chloride	< 2.0		2.0	µg/L	N/A	2016-11-09	
Xylenes (total)	< 2.0		2.0	µg/L	N/A	2016-11-09	
Surrogate: Toluene-d8	104		70-130	%	N/A	2016-11-09	
Surrogate: 4-Bromofluorobenzene	98		70-130	%	N/A	2016-11-09	
Surrogate: 1,4-Dichlorobenzene-d4	98		70-130	%	N/A	2016-11-09	

Sample / Analysis Qualifiers:

HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.
S02 Surrogate recovery outside of control limits. Data accepted based on acceptable recovery of other surrogates.

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6110509
2016-11-15

The following section displays the quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with QC samples that ensure your data is of the highest quality. Common QC types include:

- **Method Blank (Blk):** Laboratory reagent water is carried through sample preparation and analysis steps. Method Blanks indicate that results are free from contamination, i.e. not biased high from sources such as the sample container or the laboratory environment
- **Duplicate (Dup):** Preparation and analysis of a replicate aliquot of a sample. Duplicates provide a measure of the analytical method's precision, i.e. how reproducible a result is. Duplicates are only reported if they are associated with your sample data.
- **Blank Spike (BS):** A known amount of standard is carried through sample preparation and analysis steps. Blank Spikes, also known as laboratory control samples (LCS), are prepared from a different source of standard than used for the calibration. They ensure that the calibration is acceptable (i.e. not biased high or low) and also provide a measure of the analytical method's accuracy (i.e. closeness of the result to a target value).
- **Standard Reference Material (SRM):** A material of similar matrix to the samples, externally certified for the parameter(s) listed. Standard Reference Materials ensure that the preparation steps in the method are adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Anions, Batch B6K0554									
Blank (B6K0554-BLK1)			Prepared: 2016-11-05, Analyzed: 2016-11-05						
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.01	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 0.5	1.0 mg/L							
Blank (B6K0554-BLK2)			Prepared: 2016-11-05, Analyzed: 2016-11-05						
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.01	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 0.5	1.0 mg/L							
LCS (B6K0554-BS1)			Prepared: 2016-11-10, Analyzed: 2016-11-10						
Chloride	15.4	0.10 mg/L	16.0		96	90-110			
Fluoride	3.79	0.10 mg/L	4.00		95	88-108			
Nitrate (as N)	3.96	0.010 mg/L	4.00		99	93-108			
Nitrite (as N)	1.82	0.010 mg/L	2.00		91	83-110			
Sulfate	16.0	1.0 mg/L	16.0		100	91-109			
LCS (B6K0554-BS2)			Prepared: 2016-11-05, Analyzed: 2016-11-05						
Chloride	16.1	0.10 mg/L	16.0		101	90-110			
Fluoride	3.88	0.10 mg/L	4.00		97	88-108			
Nitrate (as N)	3.71	0.010 mg/L	4.00		93	93-108			
Nitrite (as N)	1.69	0.010 mg/L	2.00		85	83-110			
Sulfate	15.9	1.0 mg/L	16.0		100	91-109			
BCMOE Aggregate Hydrocarbons, Batch B6K0508									
Blank (B6K0508-BLK1)			Prepared: 2016-11-08, Analyzed: 2016-11-08						
EPHw10-19	< 250	250 µg/L							
EPHw19-32	< 250	250 µg/L							

APPENDIX 1: QUALITY CONTROL DATA

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6110509
2016-11-15

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
BCMOE Aggregate Hydrocarbons, Batch B6K0508, Continued									
Blank (B6K0508-BLK1), Continued			Prepared: 2016-11-08, Analyzed: 2016-11-08						
Surrogate: 2-Methylnonane	427	µg/L	444		96	60-140			
LCS (B6K0508-BS2)			Prepared: 2016-11-08, Analyzed: 2016-11-08						
EPHw10-19	18600	250 µg/L	15500		120	70-130			
EPHw19-32	21600	250 µg/L	22200		98	70-130			
Surrogate: 2-Methylnonane	474	µg/L	444		107	60-140			
Dissolved Metals, Batch B6K0558									
Blank (B6K0558-BLK1)			Prepared: 2016-11-08, Analyzed: 2016-11-08						
Mercury, dissolved	< 0.00002	0.00002 mg/L							
Reference (B6K0558-SRM1)			Prepared: 2016-11-08, Analyzed: 2016-11-08						
Mercury, dissolved	0.00440	0.00002 mg/L	0.00486		90	50-150			
Dissolved Metals, Batch B6K0688									
Blank (B6K0688-BLK1)			Prepared: 2016-11-11, Analyzed: 2016-11-11						
Aluminum, dissolved	< 0.005	0.005 mg/L							
Antimony, dissolved	< 0.0001	0.0001 mg/L							
Arsenic, dissolved	< 0.0005	0.0005 mg/L							
Barium, dissolved	< 0.005	0.005 mg/L							
Beryllium, dissolved	< 0.0001	0.0001 mg/L							
Bismuth, dissolved	< 0.0001	0.0001 mg/L							
Boron, dissolved	< 0.004	0.004 mg/L							
Cadmium, dissolved	< 0.00001	0.00001 mg/L							
Calcium, dissolved	< 0.2	0.2 mg/L							
Chromium, dissolved	< 0.0005	0.0005 mg/L							
Cobalt, dissolved	< 0.00005	0.00005 mg/L							
Copper, dissolved	< 0.0002	0.0002 mg/L							
Iron, dissolved	< 0.010	0.010 mg/L							
Lead, dissolved	< 0.0001	0.0001 mg/L							
Lithium, dissolved	< 0.0001	0.0001 mg/L							
Magnesium, dissolved	< 0.01	0.01 mg/L							
Manganese, dissolved	< 0.0002	0.0002 mg/L							
Molybdenum, dissolved	< 0.0001	0.0001 mg/L							
Nickel, dissolved	< 0.0002	0.0002 mg/L							
Phosphorus, dissolved	< 0.02	0.02 mg/L							
Potassium, dissolved	< 0.02	0.02 mg/L							
Selenium, dissolved	< 0.0005	0.0005 mg/L							
Silicon, dissolved	< 0.5	0.5 mg/L							
Silver, dissolved	< 0.00005	0.00005 mg/L							
Sodium, dissolved	< 0.02	0.02 mg/L							
Strontium, dissolved	< 0.001	0.001 mg/L							
Sulfur, dissolved	< 1	1 mg/L							
Tellurium, dissolved	< 0.0002	0.0002 mg/L							
Thallium, dissolved	< 0.00002	0.00002 mg/L							
Thorium, dissolved	< 0.0001	0.0001 mg/L							
Tin, dissolved	< 0.0002	0.0002 mg/L							
Titanium, dissolved	< 0.005	0.005 mg/L							
Uranium, dissolved	< 0.00002	0.00002 mg/L							
Vanadium, dissolved	< 0.001	0.001 mg/L							
Zinc, dissolved	< 0.004	0.004 mg/L							
Zirconium, dissolved	< 0.0001	0.0001 mg/L							

APPENDIX 1: QUALITY CONTROL DATA

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6110509
2016-11-15

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Dissolved Metals, Batch B6K0688, Continued									
Duplicate (B6K0688-DUP1)		Source: 6110509-01		Prepared: 2016-11-11, Analyzed: 2016-11-11					
Aluminum, dissolved	0.015	0.005 mg/L		0.015					11
Antimony, dissolved	0.0002	0.0001 mg/L		0.0003					44
Arsenic, dissolved	< 0.0005	0.0005 mg/L		< 0.0005					8
Barium, dissolved	0.009	0.005 mg/L		0.009					7
Beryllium, dissolved	< 0.0001	0.0001 mg/L		< 0.0001					14
Bismuth, dissolved	< 0.0001	0.0001 mg/L		< 0.0001					20
Boron, dissolved	0.021	0.004 mg/L		0.019			8		13
Cadmium, dissolved	< 0.00001	0.00001 mg/L		< 0.00001					27
Calcium, dissolved	40.2	0.2 mg/L		39.5			2		8
Chromium, dissolved	0.0011	0.0005 mg/L		0.0010					14
Cobalt, dissolved	0.00015	0.00005 mg/L		0.00013					10
Copper, dissolved	0.0006	0.0002 mg/L		0.0006					28
Iron, dissolved	< 0.010	0.010 mg/L		< 0.010					14
Lead, dissolved	< 0.0001	0.0001 mg/L		< 0.0001					26
Lithium, dissolved	0.0001	0.0001 mg/L		0.0001					14
Magnesium, dissolved	6.65	0.01 mg/L		6.69			< 1		6
Manganese, dissolved	0.0092	0.0002 mg/L		0.0091			< 1		9
Molybdenum, dissolved	0.0006	0.0001 mg/L		0.0006			< 1		19
Nickel, dissolved	0.0010	0.0002 mg/L		0.0010			< 1		21
Phosphorus, dissolved	< 0.02	0.02 mg/L		< 0.02					14
Potassium, dissolved	1.26	0.02 mg/L		1.27			1		8
Selenium, dissolved	< 0.0005	0.0005 mg/L		< 0.0005					36
Silicon, dissolved	2.7	0.5 mg/L		2.5			7		12
Silver, dissolved	< 0.00005	0.00005 mg/L		< 0.00005					20
Sodium, dissolved	25.3	0.02 mg/L		25.6			1		6
Strontium, dissolved	0.152	0.001 mg/L		0.151			< 1		6
Sulfur, dissolved	24	1 mg/L		25			2		26
Tellurium, dissolved	< 0.0002	0.0002 mg/L		< 0.0002					20
Thallium, dissolved	< 0.00002	0.00002 mg/L		< 0.00002					13
Thorium, dissolved	< 0.0001	0.0001 mg/L		< 0.0001					30
Tin, dissolved	< 0.0002	0.0002 mg/L		< 0.0002					6
Titanium, dissolved	< 0.005	0.005 mg/L		< 0.005					20
Uranium, dissolved	0.00042	0.00002 mg/L		0.00040			3		14
Vanadium, dissolved	< 0.001	0.001 mg/L		< 0.001					20
Zinc, dissolved	< 0.004	0.004 mg/L		< 0.004					11
Zirconium, dissolved	< 0.0001	0.0001 mg/L		< 0.0001					36
Matrix Spike (B6K0688-MS1)		Source: 6110509-02		Prepared: 2016-11-11, Analyzed: 2016-11-11					
Antimony, dissolved	0.413	0.0001 mg/L	0.400	0.0003	103		76-114		
Arsenic, dissolved	0.202	0.0005 mg/L	0.200	< 0.0005	101		81-115		
Barium, dissolved	0.964	0.005 mg/L	1.00	0.014	95		80-113		
Beryllium, dissolved	0.0954	0.0001 mg/L	0.100	< 0.0001	95		69-109		
Cadmium, dissolved	0.0941	0.00001 mg/L	0.100	< 0.00001	94		83-110		
Chromium, dissolved	0.396	0.0005 mg/L	0.400	0.0009	99		85-115		
Cobalt, dissolved	0.394	0.00005 mg/L	0.400	0.00010	99		86-114		
Copper, dissolved	0.399	0.0002 mg/L	0.400	0.0011	99		82-119		
Iron, dissolved	1.97	0.010 mg/L	2.00	< 0.010	99		80-116		
Lead, dissolved	0.193	0.0001 mg/L	0.200	< 0.0001	96		83-112		
Manganese, dissolved	0.400	0.0002 mg/L	0.400	0.0064	99		62-131		
Nickel, dissolved	0.388	0.0002 mg/L	0.400	0.0008	97		81-115		
Selenium, dissolved	0.0982	0.0005 mg/L	0.100	< 0.0005	98		79-115		
Silver, dissolved	0.101	0.00005 mg/L	0.100	< 0.00005	101		69-121		
Thallium, dissolved	0.0963	0.00002 mg/L	0.100	< 0.00002	96		84-115		
Vanadium, dissolved	0.384	0.001 mg/L	0.400	< 0.001	96		83-113		
Zinc, dissolved	0.996	0.004 mg/L	1.00	< 0.004	100		82-115		

APPENDIX 1: QUALITY CONTROL DATA

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6110509
2016-11-15

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Dissolved Metals, Batch B6K0688, Continued									
Reference (B6K0688-SRM1)					Prepared: 2016-11-11, Analyzed: 2016-11-11				
Aluminum, dissolved	0.242	0.005 mg/L	0.233		104	58-142			
Antimony, dissolved	0.0494	0.0001 mg/L	0.0430		115	75-125			
Arsenic, dissolved	0.467	0.0005 mg/L	0.438		107	81-119			
Barium, dissolved	3.39	0.005 mg/L	3.35		101	83-117			
Beryllium, dissolved	0.218	0.0001 mg/L	0.213		102	80-120			
Boron, dissolved	1.72	0.004 mg/L	1.74		99	74-117			
Cadmium, dissolved	0.226	0.00001 mg/L	0.224		101	83-117			
Calcium, dissolved	8.1	0.2 mg/L	7.69		105	76-124			
Chromium, dissolved	0.461	0.0005 mg/L	0.437		105	81-119			
Cobalt, dissolved	0.135	0.00005 mg/L	0.128		106	76-124			
Copper, dissolved	0.880	0.0002 mg/L	0.844		104	84-116			
Iron, dissolved	1.33	0.010 mg/L	1.29		103	74-126			
Lead, dissolved	0.114	0.0001 mg/L	0.112		101	72-128			
Lithium, dissolved	0.104	0.0001 mg/L	0.104		100	60-140			
Magnesium, dissolved	7.48	0.01 mg/L	6.92		108	81-119			
Manganese, dissolved	0.362	0.0002 mg/L	0.345		105	84-116			
Molybdenum, dissolved	0.427	0.0001 mg/L	0.426		100	83-117			
Nickel, dissolved	0.876	0.0002 mg/L	0.840		104	74-126			
Phosphorus, dissolved	0.56	0.02 mg/L	0.495		114	68-132			
Potassium, dissolved	3.53	0.02 mg/L	3.19		111	74-126			
Selenium, dissolved	0.0353	0.0005 mg/L	0.0331		107	70-130			
Sodium, dissolved	20.1	0.02 mg/L	19.1		105	72-128			
Strontium, dissolved	0.960	0.001 mg/L	0.916		105	84-113			
Thallium, dissolved	0.0392	0.00002 mg/L	0.0393		100	57-143			
Uranium, dissolved	0.258	0.00002 mg/L	0.266		97	85-115			
Vanadium, dissolved	0.898	0.001 mg/L	0.869		103	87-113			
Zinc, dissolved	0.923	0.004 mg/L	0.881		105	72-128			

General Parameters, Batch B6K0514

Blank (B6K0514-BLK1)					Prepared: 2016-11-08, Analyzed: 2016-11-08				
Turbidity	< 0.10	0.10 NTU							
LCS (B6K0514-BS1)					Prepared: 2016-11-08, Analyzed: 2016-11-08				
Turbidity	9.62	0.10 NTU	10.0		96	82-115			
Duplicate (B6K0514-DUP1)					Source: 6110509-02 Prepared: 2016-11-08, Analyzed: 2016-11-08				
Turbidity	18.1	0.10 NTU		19.6			8	18	

General Parameters, Batch B6K0573

Blank (B6K0573-BLK1)					Prepared: 2016-11-08, Analyzed: 2016-11-08				
Colour, True	< 5	5 CU							
LCS (B6K0573-BS1)					Prepared: 2016-11-08, Analyzed: 2016-11-08				
Colour, True	11	5 CU	10.0		108	85-115			
Duplicate (B6K0573-DUP1)					Source: 6110509-01 Prepared: 2016-11-08, Analyzed: 2016-11-08				
Colour, True	< 5	5 CU		< 5				5	

General Parameters, Batch B6K0617

Blank (B6K0617-BLK1)					Prepared: 2016-11-09, Analyzed: 2016-11-09				
Solids, Total Suspended	< 1	2 mg/L							

APPENDIX 1: QUALITY CONTROL DATA

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6110509
2016-11-15

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
General Parameters, Batch B6K0617, Continued									
LCS (B6K0617-BS1)			Prepared: 2016-11-09, Analyzed: 2016-11-09						
Solids, Total Suspended	50	2 mg/L	50.0		100	85-110			
General Parameters, Batch B6K0671									
Blank (B6K0671-BLK1)			Prepared: 2016-11-09, Analyzed: 2016-11-09						
Solids, Total Dissolved	< 10	10 mg/L							
LCS (B6K0671-BS1)			Prepared: 2016-11-09, Analyzed: 2016-11-09						
Solids, Total Dissolved	240	10 mg/L	240		100	80-120			
General Parameters, Batch B6K0672									
Blank (B6K0672-BLK1)			Prepared: 2016-11-09, Analyzed: 2016-11-09						
Alkalinity, Total (as CaCO3)	< 1	1 mg/L							
Alkalinity, Phenolphthalein (as CaCO3)	< 1	1 mg/L							
Alkalinity, Bicarbonate (as CaCO3)	< 1	1 mg/L							
Alkalinity, Carbonate (as CaCO3)	< 1	1 mg/L							
Alkalinity, Hydroxide (as CaCO3)	< 1	1 mg/L							
Conductivity (EC)	< 2	2 µS/cm							
Blank (B6K0672-BLK2)			Prepared: 2016-11-09, Analyzed: 2016-11-09						
Alkalinity, Total (as CaCO3)	< 1	1 mg/L							
Alkalinity, Phenolphthalein (as CaCO3)	< 1	1 mg/L							
Alkalinity, Bicarbonate (as CaCO3)	< 1	1 mg/L							
Alkalinity, Carbonate (as CaCO3)	< 1	1 mg/L							
Alkalinity, Hydroxide (as CaCO3)	< 1	1 mg/L							
Conductivity (EC)	< 2	2 µS/cm							
Blank (B6K0672-BLK3)			Prepared: 2016-11-10, Analyzed: 2016-11-10						
Alkalinity, Total (as CaCO3)	< 1	1 mg/L							
Alkalinity, Phenolphthalein (as CaCO3)	< 1	1 mg/L							
Alkalinity, Bicarbonate (as CaCO3)	< 1	1 mg/L							
Alkalinity, Carbonate (as CaCO3)	< 1	1 mg/L							
Alkalinity, Hydroxide (as CaCO3)	< 1	1 mg/L							
Conductivity (EC)	< 2	2 µS/cm							
LCS (B6K0672-BS1)			Prepared: 2016-11-09, Analyzed: 2016-11-09						
Alkalinity, Total (as CaCO3)	101	1 mg/L	100		101	96-108			
LCS (B6K0672-BS2)			Prepared: 2016-11-09, Analyzed: 2016-11-09						
Conductivity (EC)	1400	2 µS/cm	1410		99	95-104			
LCS (B6K0672-BS3)			Prepared: 2016-11-09, Analyzed: 2016-11-09						
Alkalinity, Total (as CaCO3)	102	1 mg/L	100		102	96-108			
LCS (B6K0672-BS4)			Prepared: 2016-11-09, Analyzed: 2016-11-09						
Conductivity (EC)	1410	2 µS/cm	1410		100	95-104			
LCS (B6K0672-BS5)			Prepared: 2016-11-10, Analyzed: 2016-11-10						
Alkalinity, Total (as CaCO3)	101	1 mg/L	100		101	96-108			
LCS (B6K0672-BS6)			Prepared: 2016-11-10, Analyzed: 2016-11-10						
Conductivity (EC)	1420	2 µS/cm	1410		101	95-104			
Reference (B6K0672-SRM1)			Prepared: 2016-11-09, Analyzed: 2016-11-09						
pH	6.94	0.01 pH units	7.00		99	98-102			

APPENDIX 1: QUALITY CONTROL DATA

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6110509
2016-11-15

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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General Parameters, Batch B6K0672, Continued

Reference (B6K0672-SRM2)			Prepared: 2016-11-09, Analyzed: 2016-11-09						
pH	6.94	0.01 pH units	7.00		99	98-102			
Reference (B6K0672-SRM3)			Prepared: 2016-11-10, Analyzed: 2016-11-10						
pH	6.94	0.01 pH units	7.00		99	98-102			

General Parameters, Batch B6K0845

Blank (B6K0845-BLK1)			Prepared: 2016-11-14, Analyzed: 2016-11-14						
Chromium, Hexavalent	< 0.001	0.001 mg/L							
LCS (B6K0845-BS1)			Prepared: 2016-11-14, Analyzed: 2016-11-14						
Chromium, Hexavalent	0.102	0.001 mg/L	0.100		102	90-111			
Matrix Spike (B6K0845-MS1)			Source: 6110509-01		Prepared: 2016-11-14, Analyzed: 2016-11-14				
Chromium, Hexavalent	0.090	0.001 mg/L	0.100	< 0.001	90	70-116			

Glycols, Batch B6K0524

Blank (B6K0524-BLK1)			Prepared: 2016-11-09, Analyzed: 2016-11-09						
Propylene glycol	< 5	5 mg/L							
Ethylene glycol	< 5	5 mg/L							
Diethylene glycol	< 5	5 mg/L							
Triethylene glycol	< 5	5 mg/L							
Surrogate: Tetramethylene Glycol	99.3	mg/L	95.6		104	66-125			
LCS (B6K0524-BS1)			Prepared: 2016-11-09, Analyzed: 2016-11-09						
Propylene glycol	47	5 mg/L	50.0		94	71-114			
Ethylene glycol	47	5 mg/L	49.9		94	82-124			
Diethylene glycol	50	5 mg/L	50.0		100	80-116			
Triethylene glycol	50	5 mg/L	49.8		100	73-120			
Surrogate: Tetramethylene Glycol	92.6	mg/L	95.6		97	66-125			
LCS Dup (B6K0524-BSD1)			Prepared: 2016-11-09, Analyzed: 2016-11-09						
Propylene glycol	47	5 mg/L	50.0		94	71-114	< 1	20	
Ethylene glycol	47	5 mg/L	49.9		94	82-124	< 1	20	
Diethylene glycol	50	5 mg/L	50.0		99	80-116	< 1	20	
Triethylene glycol	50	5 mg/L	49.8		100	73-120	< 1	20	
Surrogate: Tetramethylene Glycol	91.7	mg/L	95.6		96	66-125			

Polycyclic Aromatic Hydrocarbons (PAH), Batch B6K0508

Blank (B6K0508-BLK1)			Prepared: 2016-11-08, Analyzed: 2016-11-09						
Acenaphthene	< 0.05	0.05 µg/L							
Acenaphthylene	< 0.20	0.20 µg/L							
Acridine	< 0.10	0.10 µg/L							
Anthracene	< 0.01	0.01 µg/L							
Benz (a) anthracene	< 0.01	0.01 µg/L							
Benzo (a) pyrene	< 0.01	0.01 µg/L							
Benzo (b) fluoranthene	< 0.05	0.05 µg/L							
Benzo (g,h,i) perylene	< 0.05	0.05 µg/L							
Benzo (k) fluoranthene	< 0.05	0.05 µg/L							
Chrysene	< 0.05	0.05 µg/L							
Dibenz (a,h) anthracene	< 0.05	0.05 µg/L							
Fluoranthene	< 0.03	0.03 µg/L							
Fluorene	< 0.05	0.05 µg/L							
Indeno (1,2,3-cd) pyrene	< 0.05	0.05 µg/L							

APPENDIX 1: QUALITY CONTROL DATA

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6110509
2016-11-15

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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Polycyclic Aromatic Hydrocarbons (PAH), Batch B6K0508, Continued

Blank (B6K0508-BLK1), Continued

Prepared: 2016-11-08, Analyzed: 2016-11-09

Naphthalene	< 0.20	0.20 µg/L							
Phenanthrene	< 0.10	0.10 µg/L							
Pyrene	< 0.02	0.02 µg/L							
Quinoline	< 0.10	0.10 µg/L							
Surrogate: Acridine-d9	2.39	µg/L	4.44		54	60-130			S02
Surrogate: Naphthalene-d8	4.27	µg/L	4.44		96	60-130			
Surrogate: Perylene-d12	4.69	µg/L	4.44		105	60-130			

LCS (B6K0508-BS1)

Prepared: 2016-11-08, Analyzed: 2016-11-09

Acenaphthene	3.87	0.05 µg/L	4.44		87	70-130			
Acenaphthylene	3.94	0.20 µg/L	4.44		89	70-130			
Acridine	3.55	0.10 µg/L	4.44		80	60-130			
Anthracene	4.03	0.01 µg/L	4.44		91	70-130			
Benz (a) anthracene	4.31	0.01 µg/L	4.44		97	70-130			
Benzo (a) pyrene	4.31	0.01 µg/L	4.44		97	70-130			
Benzo (b) fluoranthene	4.64	0.05 µg/L	4.44		104	70-130			
Benzo (g,h,i) perylene	4.72	0.05 µg/L	4.44		106	70-130			
Benzo (k) fluoranthene	4.53	0.05 µg/L	4.44		102	70-130			
Chrysene	4.18	0.05 µg/L	4.44		94	70-130			
Dibenz (a,h) anthracene	4.61	0.05 µg/L	4.44		104	70-130			
Fluoranthene	4.66	0.03 µg/L	4.44		105	70-130			
Fluorene	3.86	0.05 µg/L	4.44		87	70-130			
Indeno (1,2,3-cd) pyrene	4.91	0.05 µg/L	4.44		110	70-130			
Naphthalene	4.07	0.20 µg/L	4.44		92	70-130			
Phenanthrene	4.19	0.10 µg/L	4.44		94	70-130			
Pyrene	4.86	0.02 µg/L	4.44		109	70-130			
Quinoline	5.03	0.10 µg/L	4.44		113	70-130			
Surrogate: Acridine-d9	2.46	µg/L	4.44		55	60-130			S02
Surrogate: Naphthalene-d8	4.08	µg/L	4.44		92	60-130			
Surrogate: Perylene-d12	4.72	µg/L	4.44		106	60-130			

LCS Dup (B6K0508-BSD1)

Prepared: 2016-11-08, Analyzed: 2016-11-09

Acenaphthene	3.79	0.05 µg/L	4.44		85	70-130	2	20	
Acenaphthylene	3.86	0.20 µg/L	4.44		87	70-130	2	20	
Acridine	3.66	0.10 µg/L	4.44		82	60-130	3	20	
Anthracene	3.88	0.01 µg/L	4.44		87	70-130	4	20	
Benz (a) anthracene	4.16	0.01 µg/L	4.44		94	70-130	3	20	
Benzo (a) pyrene	4.17	0.01 µg/L	4.44		94	70-130	3	20	
Benzo (b) fluoranthene	4.27	0.05 µg/L	4.44		96	70-130	8	20	
Benzo (g,h,i) perylene	4.59	0.05 µg/L	4.44		103	70-130	3	20	
Benzo (k) fluoranthene	4.34	0.05 µg/L	4.44		98	70-130	4	20	
Chrysene	4.05	0.05 µg/L	4.44		91	70-130	3	20	
Dibenz (a,h) anthracene	4.44	0.05 µg/L	4.44		100	70-130	4	20	
Fluoranthene	4.50	0.03 µg/L	4.44		101	70-130	3	20	
Fluorene	3.74	0.05 µg/L	4.44		84	70-130	3	20	
Indeno (1,2,3-cd) pyrene	4.77	0.05 µg/L	4.44		107	70-130	3	20	
Naphthalene	4.10	0.20 µg/L	4.44		92	70-130	< 1	20	
Phenanthrene	4.05	0.10 µg/L	4.44		91	70-130	3	20	
Pyrene	4.64	0.02 µg/L	4.44		104	70-130	5	20	
Quinoline	5.03	0.10 µg/L	4.44		113	70-130	< 1	20	
Surrogate: Acridine-d9	2.50	µg/L	4.44		56	60-130			S02
Surrogate: Naphthalene-d8	4.05	µg/L	4.44		91	60-130			
Surrogate: Perylene-d12	4.53	µg/L	4.44		102	60-130			

Total Metals, Batch B6K0559

APPENDIX 1: QUALITY CONTROL DATA

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6110509
2016-11-15

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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Total Metals, Batch B6K0559, Continued

Blank (B6K0559-BLK1)

Prepared: 2016-11-08, Analyzed: 2016-11-08

Mercury, total < 0.00002 0.00002 mg/L

Reference (B6K0559-SRM1)

Prepared: 2016-11-08, Analyzed: 2016-11-08

Mercury, total 0.00417 0.00002 mg/L 0.00486 86 50-150

Total Metals, Batch B6K0673

Blank (B6K0673-BLK1)

Prepared: 2016-11-09, Analyzed: 2016-11-11

Aluminum, total	< 0.005	0.005 mg/L							
Antimony, total	< 0.0001	0.0001 mg/L							
Arsenic, total	< 0.0005	0.0005 mg/L							
Barium, total	< 0.005	0.005 mg/L							
Beryllium, total	< 0.0001	0.0001 mg/L							
Bismuth, total	< 0.0001	0.0001 mg/L							
Boron, total	< 0.004	0.004 mg/L							
Cadmium, total	< 0.00001	0.00001 mg/L							
Calcium, total	< 0.2	0.2 mg/L							
Chromium, total	< 0.0005	0.0005 mg/L							
Cobalt, total	< 0.00005	0.00005 mg/L							
Copper, total	< 0.0002	0.0002 mg/L							
Iron, total	< 0.01	0.01 mg/L							
Lead, total	< 0.0001	0.0001 mg/L							
Lithium, total	< 0.0001	0.0001 mg/L							
Magnesium, total	< 0.01	0.01 mg/L							
Manganese, total	< 0.0002	0.0002 mg/L							
Molybdenum, total	< 0.0001	0.0001 mg/L							
Nickel, total	< 0.0002	0.0002 mg/L							
Phosphorus, total	< 0.02	0.02 mg/L							
Potassium, total	< 0.02	0.02 mg/L							
Selenium, total	< 0.0005	0.0005 mg/L							
Silicon, total	< 0.5	0.5 mg/L							
Silver, total	< 0.00005	0.00005 mg/L							
Sodium, total	< 0.02	0.02 mg/L							
Strontium, total	< 0.001	0.001 mg/L							
Sulfur, total	< 1	1 mg/L							
Tellurium, total	< 0.0002	0.0002 mg/L							
Thallium, total	< 0.00002	0.00002 mg/L							
Thorium, total	< 0.0001	0.0001 mg/L							
Tin, total	< 0.0002	0.0002 mg/L							
Titanium, total	< 0.005	0.005 mg/L							
Uranium, total	< 0.00002	0.00002 mg/L							
Vanadium, total	< 0.001	0.001 mg/L							
Zinc, total	< 0.004	0.004 mg/L							
Zirconium, total	< 0.0001	0.0001 mg/L							

Duplicate (B6K0673-DUP1)

Source: 6110509-01

Prepared: 2016-11-09, Analyzed: 2016-11-11

Aluminum, total	5.76	0.005 mg/L	5.68			1	29		
Antimony, total	0.0003	0.0001 mg/L	0.0003				31		
Arsenic, total	0.0015	0.0005 mg/L	0.0013				15		
Barium, total	0.036	0.005 mg/L	0.035			2	9		
Beryllium, total	0.0001	0.0001 mg/L	0.0001				16		
Bismuth, total	< 0.0001	0.0001 mg/L	< 0.0001				20		
Boron, total	0.029	0.004 mg/L	0.026			13	29		
Cadmium, total	0.00003	0.00001 mg/L	0.00003				33		
Calcium, total	41.0	0.2 mg/L	42.0			2	12		
Chromium, total	0.0109	0.0005 mg/L	0.0108			< 1	12		

APPENDIX 1: QUALITY CONTROL DATA

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6110509
2016-11-15

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Total Metals, Batch B6K0673, Continued									
Duplicate (B6K0673-DUP1), Continued		Source: 6110509-01		Prepared: 2016-11-09, Analyzed: 2016-11-11					
Cobalt, total	0.00301	0.00005 mg/L		0.00302			< 1	13	
Copper, total	0.0121	0.0002 mg/L		0.0121			< 1	37	
Iron, total	6.35	0.01 mg/L		6.34			< 1	18	
Lead, total	0.0031	0.0001 mg/L		0.0031			2	23	
Lithium, total	0.0029	0.0001 mg/L		0.0029			< 1	19	
Magnesium, total	8.41	0.01 mg/L		8.49			< 1	10	
Manganese, total	0.111	0.0002 mg/L		0.116			4	13	
Molybdenum, total	0.0007	0.0001 mg/L		0.0007			4	20	
Nickel, total	0.0093	0.0002 mg/L		0.0091			2	28	
Phosphorus, total	0.10	0.02 mg/L		0.10			8	24	
Potassium, total	1.79	0.02 mg/L		1.82			1	13	
Selenium, total	< 0.0005	0.0005 mg/L		< 0.0005				24	
Silicon, total	11.9	0.5 mg/L		11.3			5	11	
Silver, total	< 0.00005	0.00005 mg/L		< 0.00005				18	
Sodium, total	25.9	0.02 mg/L		26.0			< 1	10	
Strontium, total	0.161	0.001 mg/L		0.161			< 1	9	
Sulfur, total	23	1 mg/L		25			7	24	
Tellurium, total	< 0.0002	0.0002 mg/L		< 0.0002				20	
Thallium, total	0.00003	0.00002 mg/L		0.00002				24	
Thorium, total	0.0001	0.0001 mg/L		0.0001				18	
Tin, total	0.0003	0.0002 mg/L		0.0003				18	
Titanium, total	0.284	0.005 mg/L		0.280			1	32	
Uranium, total	0.00056	0.00002 mg/L		0.00055			1	14	
Vanadium, total	0.016	0.001 mg/L		0.016			1	17	
Zinc, total	0.018	0.004 mg/L		0.018				8	
Zirconium, total	0.0004	0.0001 mg/L		0.0005			16	60	
Matrix Spike (B6K0673-MS1)		Source: 6110509-02		Prepared: 2016-11-09, Analyzed: 2016-11-11					
Antimony, total	0.433	0.0001 mg/L	0.400	0.0003	108	84-125			
Arsenic, total	0.206	0.0005 mg/L	0.200	< 0.0005	103	85-116			
Barium, total	0.999	0.005 mg/L	1.00	0.022	98	87-114			
Beryllium, total	0.0965	0.0001 mg/L	0.100	< 0.0001	96	72-116			
Cadmium, total	0.0972	0.00001 mg/L	0.100	0.00001	97	90-112			
Chromium, total	0.407	0.0005 mg/L	0.400	0.0031	101	89-120			
Cobalt, total	0.402	0.00005 mg/L	0.400	0.00086	100	88-120			
Copper, total	0.411	0.0002 mg/L	0.400	0.0046	102	88-125			
Iron, total	3.56	0.01 mg/L	2.00	1.61	98	88-119			
Lead, total	0.199	0.0001 mg/L	0.200	0.0008	99	89-118			
Manganese, total	0.440	0.0002 mg/L	0.400	0.0344	101	84-120			
Nickel, total	0.398	0.0002 mg/L	0.400	0.0028	99	87-119			
Selenium, total	0.102	0.0005 mg/L	0.100	< 0.0005	101	85-113			
Silver, total	0.104	0.00005 mg/L	0.100	< 0.00005	104	89-119			
Thallium, total	0.0983	0.00002 mg/L	0.100	< 0.00002	98	92-119			
Vanadium, total	0.395	0.001 mg/L	0.400	0.005	97	87-117			
Zinc, total	1.01	0.004 mg/L	1.00	0.006	101	85-116			
Reference (B6K0673-SRM1)		Prepared: 2016-11-09, Analyzed: 2016-11-11							
Aluminum, total	0.312	0.005 mg/L	0.303		103	81-129			
Antimony, total	0.0552	0.0001 mg/L	0.0511		108	88-114			
Arsenic, total	0.122	0.0005 mg/L	0.118		103	88-114			
Barium, total	0.778	0.005 mg/L	0.823		94	72-104			
Beryllium, total	0.0492	0.0001 mg/L	0.0496		99	76-131			
Boron, total	3.32	0.004 mg/L	3.45		96	75-121			
Cadmium, total	0.0488	0.00001 mg/L	0.0495		99	89-111			
Calcium, total	11.4	0.2 mg/L	11.6		99	86-121			
Chromium, total	0.254	0.0005 mg/L	0.250		102	89-114			
Cobalt, total	0.0391	0.00005 mg/L	0.0377		104	91-113			

APPENDIX 1: QUALITY CONTROL DATA

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6110509
2016-11-15

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Total Metals, Batch B6K0673, Continued									
Reference (B6K0673-SRM1), Continued					Prepared: 2016-11-09, Analyzed: 2016-11-11				
Copper, total	0.503	0.0002 mg/L	0.486		103	91-115			
Iron, total	0.50	0.01 mg/L	0.488		103	77-124			
Lead, total	0.199	0.0001 mg/L	0.204		97	92-113			
Lithium, total	0.386	0.0001 mg/L	0.403		96	85-115			
Magnesium, total	4.42	0.01 mg/L	3.79		117	78-120			
Manganese, total	0.110	0.0002 mg/L	0.109		101	90-114			
Molybdenum, total	0.192	0.0001 mg/L	0.198		97	90-111			
Nickel, total	0.250	0.0002 mg/L	0.249		101	90-111			
Phosphorus, total	0.23	0.02 mg/L	0.227		100	85-115			
Potassium, total	7.45	0.02 mg/L	7.21		103	84-113			
Selenium, total	0.127	0.0005 mg/L	0.121		105	85-115			
Sodium, total	7.87	0.02 mg/L	7.54		104	82-123			
Strontium, total	0.382	0.001 mg/L	0.375		102	88-112			
Thallium, total	0.0794	0.00002 mg/L	0.0805		99	91-114			
Uranium, total	0.0288	0.00002 mg/L	0.0306		94	85-120			
Vanadium, total	0.384	0.001 mg/L	0.386		99	86-111			
Zinc, total	2.57	0.004 mg/L	2.49		103	85-111			

Volatile Organic Compounds (VOC), Batch B6K0542

Blank (B6K0542-BLK1)			Prepared: 2016-11-09, Analyzed: 2016-11-09						
Benzene	< 0.5	0.5 µg/L							
Bromodichloromethane	< 1.0	1.0 µg/L							
Bromoform	< 1.0	1.0 µg/L							
Bromomethane	< 2.0	2.0 µg/L							
Carbon tetrachloride	< 1.0	1.0 µg/L							
Chlorobenzene	< 1.0	1.0 µg/L							
Chloroethane	< 2.0	2.0 µg/L							
Chloroform	< 1.0	1.0 µg/L							
Chloromethane	< 2.0	2.0 µg/L							
Dibromochloromethane	< 1.0	1.0 µg/L							
1,2-Dibromoethane	< 0.3	0.3 µg/L							
Dibromomethane	< 1.0	1.0 µg/L							
1,2-Dichlorobenzene	< 0.5	0.5 µg/L							
1,3-Dichlorobenzene	< 1.0	1.0 µg/L							
1,4-Dichlorobenzene	< 1.0	1.0 µg/L							
1,1-Dichloroethane	< 1.0	1.0 µg/L							
1,2-Dichloroethane	< 1.0	1.0 µg/L							
1,1-Dichloroethene	< 1.0	1.0 µg/L							
cis-1,2-Dichloroethene	< 1.0	1.0 µg/L							
trans-1,2-Dichloroethene	< 1.0	1.0 µg/L							
1,2-Dichloropropane	< 1.0	1.0 µg/L							
cis-1,3-Dichloropropene	< 1.0	1.0 µg/L							
trans-1,3-Dichloropropene	< 1.0	1.0 µg/L							
Ethylbenzene	< 1.0	1.0 µg/L							
Methyl tert-butyl ether	< 1.0	1.0 µg/L							
Methylene chloride	< 3.0	3.0 µg/L							
Styrene	< 1.0	1.0 µg/L							
1,1,1,2-Tetrachloroethane	< 1.0	1.0 µg/L							
1,1,2,2-Tetrachloroethane	< 1.0	1.0 µg/L							
Tetrachloroethene	< 1.0	1.0 µg/L							
Toluene	< 1.0	1.0 µg/L							
1,1,1-Trichloroethane	< 1.0	1.0 µg/L							
1,1,2-Trichloroethane	< 1.0	1.0 µg/L							
Trichloroethene	< 1.0	1.0 µg/L							
Trichlorofluoromethane	< 1.0	1.0 µg/L							

APPENDIX 1: QUALITY CONTROL DATA

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6110509
2016-11-15

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Volatile Organic Compounds (VOC), Batch B6K0542, Continued									
Blank (B6K0542-BLK1), Continued					Prepared: 2016-11-09, Analyzed: 2016-11-09				
Vinyl chloride	< 2.0	2.0 µg/L							
Xylenes (total)	< 2.0	2.0 µg/L							
Surrogate: Toluene-d8	25.0	µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	23.4	µg/L	25.0		94	70-130			
Surrogate: 1,4-Dichlorobenzene-d4	22.6	µg/L	25.0		91	70-130			
LCS (B6K0542-BS1)					Prepared: 2016-11-08, Analyzed: 2016-11-08				
Benzene	22.6	0.5 µg/L	20.0		113	70-130			
Bromodichloromethane	21.3	1.0 µg/L	20.0		107	70-130			
Bromoform	18.9	1.0 µg/L	20.0		94	70-130			
Bromomethane	25.2	2.0 µg/L	20.0		126	70-130			
Carbon tetrachloride	21.4	1.0 µg/L	20.0		107	70-130			
Chlorobenzene	22.9	1.0 µg/L	20.0		115	70-130			
Chloroethane	20.8	2.0 µg/L	20.0		104	70-130			
Chloroform	22.8	1.0 µg/L	20.0		114	70-130			
Chloromethane	21.3	2.0 µg/L	20.0		106	70-130			
Dibromochloromethane	19.1	1.0 µg/L	20.0		96	70-130			
1,2-Dibromoethane	20.0	0.3 µg/L	20.0		100	70-130			
Dibromomethane	20.1	1.0 µg/L	20.0		101	70-130			
1,2-Dichlorobenzene	22.6	0.5 µg/L	20.0		113	70-130			
1,3-Dichlorobenzene	21.9	1.0 µg/L	20.0		110	70-130			
1,4-Dichlorobenzene	21.8	1.0 µg/L	20.0		109	70-130			
1,1-Dichloroethane	23.0	1.0 µg/L	20.0		115	70-130			
1,2-Dichloroethane	22.0	1.0 µg/L	20.0		110	70-130			
1,1-Dichloroethene	20.9	1.0 µg/L	20.0		105	70-130			
cis-1,2-Dichloroethene	21.4	1.0 µg/L	20.0		107	70-130			
trans-1,2-Dichloroethene	21.4	1.0 µg/L	20.0		107	70-130			
1,2-Dichloropropane	22.3	1.0 µg/L	20.0		112	70-130			
cis-1,3-Dichloropropene	21.2	1.0 µg/L	20.0		106	70-130			
trans-1,3-Dichloropropene	19.6	1.0 µg/L	20.0		98	70-130			
Ethylbenzene	22.4	1.0 µg/L	20.0		112	70-130			
Methyl tert-butyl ether	19.8	1.0 µg/L	20.0		99	70-130			
Methylene chloride	21.7	3.0 µg/L	20.0		108	70-130			
Styrene	23.0	1.0 µg/L	20.0		115	70-130			
1,1,1,2-Tetrachloroethane	20.1	1.0 µg/L	20.0		101	70-130			
1,1,2,2-Tetrachloroethane	21.0	1.0 µg/L	20.0		105	70-130			
Tetrachloroethene	21.9	1.0 µg/L	20.0		110	70-130			
Toluene	22.6	1.0 µg/L	20.0		113	70-130			
1,1,1-Trichloroethane	22.4	1.0 µg/L	20.0		112	70-130			
1,1,2-Trichloroethane	21.9	1.0 µg/L	20.0		109	70-130			
Trichloroethene	22.5	1.0 µg/L	20.0		113	70-130			
Trichlorofluoromethane	20.6	1.0 µg/L	20.0		103	70-130			
Vinyl chloride	21.5	2.0 µg/L	20.0		107	70-130			
Xylenes (total)	69.8	2.0 µg/L	60.0		116	70-130			
Surrogate: Toluene-d8	27.5	µg/L	25.0		110	70-130			
Surrogate: 4-Bromofluorobenzene	26.5	µg/L	25.0		106	70-130			
Surrogate: 1,4-Dichlorobenzene-d4	27.6	µg/L	25.0		110	70-130			

QC Qualifiers:

S02 Surrogate recovery outside of control limits. Data accepted based on acceptable recovery of other surrogates.

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6110509
2016-11-15

		6110509-01	6110509-02
		Water	Water
		2016-11-05	2016-11-05
		Weir	SW-1
Anions	Chloride (mg/L)	0.37	47.3
	Fluoride (mg/L)	< 0.10	< 0.10
	Nitrate (as N) (mg/L)	< 0.010	0.630
	Nitrite (as N) (mg/L)	< 0.010	< 0.010
	Sulfate (mg/L)	2.2	92.6
General Parameters	Alkalinity, Total (as CaCO3) (mg/L)	40	59
	Alkalinity, Phenolphthalein (as CaCO3) (mg/	< 1	< 1
	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	40	59
	Alkalinity, Carbonate (as CaCO3) (mg/L)	< 1	< 1
	Alkalinity, Hydroxide (as CaCO3) (mg/L)	< 1	< 1
	Chromium, Hexavalent (mg/L)	< 0.001	< 0.001
	Colour, True (CU)	< 5	< 5
	Conductivity (EC) (uS/cm)	393	518
	pH (pH units)	7.58	7.61
	Solids, Total Dissolved (mg/L)	223	321
	Solids, Total Suspended (mg/L)	63	20
	Turbidity (NTU)	82.4	19.6
Calculated Parameters	Chromium, Trivalent (mg/L)	0.0108	0.0031
	Hardness, Total (as CaCO3) (mg/L)	126	186
Dissolved Metals	Aluminum, dissolved (mg/L)	0.015	0.007
	Antimony, dissolved (mg/L)	0.0003	0.0003
	Arsenic, dissolved (mg/L)	< 0.0005	< 0.0005
	Barium, dissolved (mg/L)	0.009	0.014
	Beryllium, dissolved (mg/L)	< 0.0001	< 0.0001
	Bismuth, dissolved (mg/L)	< 0.0001	< 0.0001
	Boron, dissolved (mg/L)	0.019	0.026
	Cadmium, dissolved (mg/L)	< 0.00001	< 0.00001
	Calcium, dissolved (mg/L)	39.5	58.3
	Chromium, dissolved (mg/L)	0.0010	0.0009
	Cobalt, dissolved (mg/L)	0.00013	0.00010
	Copper, dissolved (mg/L)	0.0006	0.0011
	Iron, dissolved (mg/L)	< 0.010	< 0.010
	Lead, dissolved (mg/L)	< 0.0001	< 0.0001
	Lithium, dissolved (mg/L)	0.0001	0.0002
	Magnesium, dissolved (mg/L)	6.69	9.85
	Manganese, dissolved (mg/L)	0.0091	0.0064
	Mercury, dissolved (mg/L)	< 0.00002	< 0.00002
	Molybdenum, dissolved (mg/L)	0.0006	0.0012
	Nickel, dissolved (mg/L)	0.0010	0.0008
	Phosphorus, dissolved (mg/L)	< 0.02	< 0.02
	Potassium, dissolved (mg/L)	1.27	1.61
	Selenium, dissolved (mg/L)	< 0.0005	< 0.0005
	Silicon, dissolved (mg/L)	2.5	4.2
	Silver, dissolved (mg/L)	< 0.00005	< 0.00005

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6110509
2016-11-15

		6110509-01	6110509-02
		Water	Water
		2016-11-05	2016-11-05
		Weir	SW-1
Dissolved Metals	Sodium, dissolved (mg/L)	25.6	28.2
	Strontium, dissolved (mg/L)	0.151	0.210
	Sulfur, dissolved (mg/L)	25	36
	Tellurium, dissolved (mg/L)	< 0.0002	< 0.0002
	Thallium, dissolved (mg/L)	< 0.00002	< 0.00002
	Thorium, dissolved (mg/L)	< 0.0001	< 0.0001
	Tin, dissolved (mg/L)	< 0.0002	< 0.0002
	Titanium, dissolved (mg/L)	< 0.005	< 0.005
	Uranium, dissolved (mg/L)	0.00040	0.00063
	Vanadium, dissolved (mg/L)	< 0.001	< 0.001
	Zinc, dissolved (mg/L)	< 0.004	< 0.004
	Zirconium, dissolved (mg/L)	< 0.0001	< 0.0001
	Total Metals	Aluminum, total (mg/L)	5.68
Antimony, total (mg/L)		0.0003	0.0003
Arsenic, total (mg/L)		0.0013	< 0.0005
Barium, total (mg/L)		0.035	0.022
Beryllium, total (mg/L)		0.0001	< 0.0001
Bismuth, total (mg/L)		< 0.0001	< 0.0001
Boron, total (mg/L)		0.026	0.030
Cadmium, total (mg/L)		0.00003	0.00001
Calcium, total (mg/L)		42.0	58.5
Chromium, total (mg/L)		0.0108	0.0031
Cobalt, total (mg/L)		0.00302	0.00086
Copper, total (mg/L)		0.0121	0.0046
Iron, total (mg/L)		6.34	1.61
Lead, total (mg/L)		0.0031	0.0008
Lithium, total (mg/L)		0.0029	0.0009
Magnesium, total (mg/L)		8.49	10.4
Manganese, total (mg/L)		0.116	0.0344
Mercury, total (mg/L)		< 0.00002	< 0.00002
Molybdenum, total (mg/L)		0.0007	0.0011
Nickel, total (mg/L)		0.0091	0.0028
Phosphorus, total (mg/L)		0.10	< 0.02
Potassium, total (mg/L)		1.82	1.78
Selenium, total (mg/L)		< 0.0005	< 0.0005
Silicon, total (mg/L)		11.3	6.6
Silver, total (mg/L)		< 0.00005	< 0.00005
Sodium, total (mg/L)		26.0	28.7
Strontium, total (mg/L)		0.161	0.216
Sulfur, total (mg/L)		25	35
Tellurium, total (mg/L)		< 0.0002	< 0.0002
Thallium, total (mg/L)		0.00002	< 0.00002
Thorium, total (mg/L)		0.0001	< 0.0001
Tin, total (mg/L)		0.0003	0.0002
Titanium, total (mg/L)		0.280	0.083

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6110509
2016-11-15

		6110509-01	6110509-02
		Water	Water
		2016-11-05	2016-11-05
		Weir	SW-1
Total Metals	Uranium, total (mg/L)	0.00055	0.00068
	Vanadium, total (mg/L)	0.016	0.005
	Zinc, total (mg/L)	0.018	0.006
	Zirconium, total (mg/L)	0.0005	0.0003
BCMOE Aggregate Hydrocarbons	EPHw10-19 (ug/L)	< 250	< 250
	EPHw19-32 (ug/L)	< 250	< 250
	LEPHw (ug/L)	< 250	< 250
	HEPHw (ug/L)	< 250	< 250
	Sur: 2-Methylnonane (%)	100	92
Glycols	Propylene glycol (mg/L)	< 5	< 5
	Ethylene glycol (mg/L)	< 5	< 5
	Diethylene glycol (mg/L)	< 5	< 5
	Triethylene glycol (mg/L)	< 5	< 5
	Sur: Tetramethylene Glycol (%)	101	105
Polycyclic Aromatic Hydrocarbons (PAH)	Acenaphthene (ug/L)	< 0.05	< 0.05
	Acenaphthylene (ug/L)	< 0.20	< 0.20
	Acridine (ug/L)	< 0.10	< 0.10
	Anthracene (ug/L)	< 0.01	< 0.01
	Benz (a) anthracene (ug/L)	< 0.01	< 0.01
	Benzo (a) pyrene (ug/L)	< 0.01	< 0.01
	Benzo (b) fluoranthene (ug/L)	< 0.05	< 0.05
	Benzo (g,h,i) perylene (ug/L)	< 0.05	< 0.05
	Benzo (k) fluoranthene (ug/L)	< 0.05	< 0.05
	Chrysene (ug/L)	< 0.05	< 0.05
	Dibenz (a,h) anthracene (ug/L)	< 0.05	< 0.05
	Fluoranthene (ug/L)	< 0.03	< 0.03
	Fluorene (ug/L)	< 0.05	< 0.05
	Indeno (1,2,3-cd) pyrene (ug/L)	< 0.05	< 0.05
	Naphthalene (ug/L)	< 0.20	< 0.20
	Phenanthrene (ug/L)	< 0.10	< 0.10
	Pyrene (ug/L)	< 0.02	< 0.02
	Quinoline (ug/L)	< 0.10	< 0.10
	Sur: Acridine-d9 (%)	49	51
	Sur: Naphthalene-d8 (%)	96	92
Sur: Perylene-d12 (%)	103	102	
Volatile Organic Compounds (VOC)	Benzene (ug/L)	< 0.5	< 0.5
	Bromodichloromethane (ug/L)	< 1.0	< 1.0
	Bromoform (ug/L)	< 1.0	< 1.0
	Bromomethane (ug/L)	< 2.0	< 2.0
	Carbon tetrachloride (ug/L)	< 1.0	< 1.0
	Chlorobenzene (ug/L)	< 1.0	< 1.0
	Chloroethane (ug/L)	< 2.0	< 2.0
	Chloroform (ug/L)	< 1.0	< 1.0
	Chloromethane (ug/L)	< 2.0	< 2.0
	Dibromochloromethane (ug/L)	< 1.0	< 1.0

REPORTED TO PROJECT Allterra Construction
SIRM 460 Stebbings

WORK ORDER REPORTED 6110509
2016-11-15

		6110509-01	6110509-02
		Water	Water
		2016-11-05	2016-11-05
		Weir	SW-1
Volatile Organic Compounds (VOC)	1,2-Dibromoethane (ug/L)	< 0.3	< 0.3
	Dibromomethane (ug/L)	< 1.0	< 1.0
	1,2-Dichlorobenzene (ug/L)	< 0.5	< 0.5
	1,3-Dichlorobenzene (ug/L)	< 1.0	< 1.0
	1,4-Dichlorobenzene (ug/L)	< 1.0	< 1.0
	1,1-Dichloroethane (ug/L)	< 1.0	< 1.0
	1,2-Dichloroethane (ug/L)	< 1.0	< 1.0
	1,1-Dichloroethene (ug/L)	< 1.0	< 1.0
	cis-1,2-Dichloroethene (ug/L)	< 1.0	< 1.0
	trans-1,2-Dichloroethene (ug/L)	< 1.0	< 1.0
	1,2-Dichloropropane (ug/L)	< 1.0	< 1.0
	cis-1,3-Dichloropropene (ug/L)	< 1.0	< 1.0
	trans-1,3-Dichloropropene (ug/L)	< 1.0	< 1.0
	Ethylbenzene (ug/L)	< 1.0	< 1.0
	Methyl tert-butyl ether (ug/L)	< 1.0	< 1.0
	Methylene chloride (ug/L)	< 3.0	< 3.0
	Styrene (ug/L)	< 1.0	< 1.0
	1,1,1,2-Tetrachloroethane (ug/L)	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane (ug/L)	< 1.0	< 1.0
	Tetrachloroethene (ug/L)	< 1.0	< 1.0
	Toluene (ug/L)	< 1.0	< 1.0
	1,1,1-Trichloroethane (ug/L)	< 1.0	< 1.0
	1,1,2-Trichloroethane (ug/L)	< 1.0	< 1.0
	Trichloroethene (ug/L)	< 1.0	< 1.0
	Trichlorofluoromethane (ug/L)	< 1.0	< 1.0
	Vinyl chloride (ug/L)	< 2.0	< 2.0
	Xylenes (total) (ug/L)	< 2.0	< 2.0
	Sur: Toluene-d8 (%)	104	104
	Sur: 4-Bromofluorobenzene (%)	96	98
	Sur: 1,4-Dichlorobenzene-d4 (%)	94	98

<p>Client Information Allterra Construction 2158 Millstream Road Victoria BC V9B 6H4 Phone: (250) 508-0726</p>	<p>Project Information SIRM 460 Stebbings Number: [none] Sample count: 2 TAT: 5</p>	<p>Laboratory Information CARO Analytical Services #110 - 4011 Viking Way Richmond BC V6V 2K9 Phone: (604) 279-1499 Fax: (604) 279-1599</p>	<p>COC Information Number: B33095 Shipped via: Harbour Air</p>
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#1	1 (Template: 01) 11/05/2016 08:00 Grab / Water	<p style="text-align: center;">Analyses</p> Alkalinity, all (KEL) TAT: 5 Anions in Water by IC, 5 Analytes (KEL) TAT: 5 Colour, True - 456 nm (KEL) TAT: 5 Conductivity in Water (KEL) TAT: 5 Glycols in Water (RMD) TAT: 5 L/HEPH in Water (RMD) TAT: 5 Mercury, diss CVAFS Reg & Low (RMD) TAT: 5 Mercury, total CVAFS Reg & Low (RMD) TAT: 5 Metals, dissolved, All, Low (RMD) TAT: 5 Metals, total, All, Low (RMD) TAT: 5 Comments: Chromium Speciation Required pH in Water (KEL) TAT: 5 Solids, Total Dissolved (KEL) TAT: 5 Solids, Total Suspended (KEL) TAT: 5 Turbidity (KEL) TAT: 5 VOC in Water (RMD) TAT: 5	<p style="text-align: center;">Containers</p> C03_250 mL Glass (EPH/PAH) (1) C04_40 mL Vial (VOC Water) (2) C05_125 mL Plastic (Metals) (1) C06_40 mL Vial (Mercury) (1) C10_125 mL Plastic (H2SO4) (1) C11_1 L Plastic (General) (1) C19_40 mL Vial (General CG) (2) S05_125 mL Plastic (Metals-F) (1) S06_40 mL Vial (Mercury-F) (1) S09_125 mL Plastic (Cr6-FF) (1)
#2	2 (Template: 01) 11/05/2016 08:15 Grab / Water	<p style="text-align: center;">Analyses</p> Alkalinity, all (KEL) TAT: 5 Anions in Water by IC, 5 Analytes (KEL) TAT: 5 Colour, True - 456 nm (KEL) TAT: 5 Conductivity in Water (KEL) TAT: 5 Glycols in Water (RMD) TAT: 5 L/HEPH in Water (RMD) TAT: 5 Mercury, diss CVAFS Reg & Low (RMD) TAT: 5 Mercury, total CVAFS Reg & Low (RMD) TAT: 5 Metals, dissolved, All, Low (RMD) TAT: 5 Metals, total, All, Low (RMD) TAT: 5 Comments: Chromium Speciation Required pH in Water (KEL) TAT: 5 Solids, Total Dissolved (KEL) TAT: 5 Solids, Total Suspended (KEL) TAT: 5 Turbidity (KEL) TAT: 5 VOC in Water (RMD) TAT: 5	<p style="text-align: center;">Containers</p> C03_250 mL Glass (EPH/PAH) (1) C04_40 mL Vial (VOC Water) (2) C05_125 mL Plastic (Metals) (1) C06_40 mL Vial (Mercury) (1) C10_125 mL Plastic (H2SO4) (1) C11_1 L Plastic (General) (1) C19_40 mL Vial (General CG) (2) S05_125 mL Plastic (Metals-F) (1) S06_40 mL Vial (Mercury-F) (1) S09_125 mL Plastic (Cr6-FF) (1)

Relinquished by	Date/Time	Accepted by	Date/Time