


REPORTED TO	Stettler, Town of (Alberta) 5031 - 50 Street Stettler, AB T0C 2L0	TEL	(403) 323-0071
		FAX	
ATTENTION	Grant McQuay	WORK ORDER	7071032
PO NUMBER		RECEIVED / TEMP	2017-07-13 09:15 / 16°C
PROJECT	Distribution System - Biannual Analysis	REPORTED	2017-08-03
PROJECT INFO		COC NUMBER	06541

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.



Authorized By:

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Laboratory Coordinator

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Kelowna, BC V1X 5C3
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Edmonton, AB T5S 1H7
Tel: 780-489-9100

www.caro.ca

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Analysis Description	Method Reference	Technique	Location
Acid Herbicides in Water	EPA 8151A*	DCM Extraction with Diazomethane Derivatization, GC-MS	Richmond
Alkalinity in Water	APHA 2320 B*	Titration with H2SO4	Edmonton
Ammonia, Total in Water	APHA 4500-NH3 D*	Ion Selective Electrode	Edmonton
Anions by IC in Water	APHA 4110 B	Ion Chromatography with Chemical Suppression of Eluent Conductivity	Edmonton
Bromate by IC in Water	APHA 4110 B	Ion Chromatography with Chemical Suppression of Eluent Conductivity	Sublet
Carbon, Total Organic in Water	APHA 5310 B	High Temperature Combustion, Infrared CO2 Detection	Kelowna
Chlorine, Free in Water	APHA 4500-Cl G	Colorimetry (DPD)	Edmonton
Chlorine, Total in Water	APHA 4500-Cl G	Colorimetry (DPD)	Edmonton
Colour, True in Water	APHA 2120 C	Spectrophotometry (456 nm)	Edmonton
Conductivity in Water	APHA 2510 B	Conductivity Meter	Edmonton
Cyanide, Free in Water	ASTM D7237-15a	Flow Injection Analysis with Gas Diffusion Separation and Amperometric Detection	Kelowna
Cyanobacterial Toxins (Microcystin) in Water	EPA 546*	Adda Enzyme-Linked Immunosorbent Assay (ELISA)	Sublet
Dissolved Metals by ICPMS in Water	APHA 3030 B / APHA 3125 B	0.45 µm Filtration / Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	Richmond
Glyphosate in Water	EPA 547**	Direct Aqueous Injection LC-MS/MS	Richmond
Hardness (as CaCO3) in Water	APHA 2340 B	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	N/A
Ion Balance in Water	APHA 1030 E	Calculation: 100 x ((Cations)-[Anions]) / ((Cations)+[Anions])	N/A
Mercury, total by CVAFS in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	Richmond
Nitritotriacetic Acid (NTA) in Water	EPA 430.1	Manual Colorimetry (Zinc-Zincon)	Kelowna
Pesticides by GCMS in Water	EPA 3510C* / EPA 8270D*	Liquid-Liquid DCM Extraction (B/N) / GC-MS (SIM)	Richmond
pH in Water	APHA 4500-H+ B	Electrometry	Edmonton
Phenols, Chlorinated in Water	EPA 3510C* / EPA 8270D	Liquid-Liquid DCM Extraction (Acidic) / GC-MS (SIM)	Richmond
Polycyclic Aromatic Hydrocarbons in Water	EPA 3511* / EPA 8270D	Hexane MicroExtraction (Base/Neutral) / GC-MS (SIM)	Richmond
Solids, Total Dissolved (calc) in Water	APHA 1030 E	Calculation: 100 x ((Cations)-[Anions]) / ((Cations)+[Anions])	N/A
Sulfide, Total in Water	Sulfide (Colorimetric) / APHA 4500-S2 D*	Sulfide (Colorimetric) / Colorimetry (Methylene Blue)	Edmonton
Total Metals by ICPMS in Water	APHA 3030 E* / APHA 3125 B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	Richmond
Trihalomethanes in Water	EPA 5030B / APHA 6200 B	Purge&Trap / Purge and Trap Capillary Column GC-MSD	Richmond
Turbidity in Water	APHA 2130 B	Nephelometry	Edmonton
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

ASTM ASTM International Test Methods

EPA United States Environmental Protection Agency Test Methods

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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
AO	Aesthetic objective
MAC	Maximum acceptable concentration (health based)
OG	Operational guideline (treated water)
%	Percent
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

Standards / Guidelines Referenced in this Report:

Guidelines for Canadian Drinking Water Quality (Feb 2017)

Website: http://www.hc-sc.gc.ca/ewh-semt/alt_formats/pdf/pubs/water-eau/sum_guide-res_recom/sum_guide-res_recom-eng.pdf

Note: In some cases, the values displayed on the report represent the lowest guideline and are to be verified by the end user

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Analyte	Result / Recovery	Standard / Guideline	MRL / Limits	Units	Prepared	Analyzed	Notes
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Sample ID: G.T. Hydraulic (7071032-01) [Water] Sampled: 2017-07-12 10:15

Anions

Bromate	< 0.010	MAC = 0.01	0.010	mg/L	N/A	2017-07-14	
Chloride	7.74	AO ≤ 250	0.50	mg/L	N/A	2017-07-14	
Fluoride	0.71	MAC = 1.5	0.10	mg/L	N/A	2017-07-14	
Nitrate (as N)	< 0.050	MAC = 10	0.050	mg/L	N/A	2017-07-14	
Nitrite (as N)	< 0.050	MAC = 1	0.050	mg/L	N/A	2017-07-14	
Sulfate	67.3	AO ≤ 500	1.0	mg/L	N/A	2017-07-14	

General Parameters

Alkalinity, Total (as CaCO3)	139	N/A	2.0	mg/L	N/A	2017-07-15	
Bicarbonate (HCO3)	169	N/A	2.0	mg/L	N/A	2017-07-15	
Carbonate (CO3)	< 2.0	N/A	2.0	mg/L	N/A	2017-07-15	
Hydroxide (OH)	< 2.0	N/A	2.0	mg/L	N/A	2017-07-15	
Ammonia, Total (as N)	0.421	N/A	0.050	mg/L	N/A	2017-07-14	
Carbon, Total Organic	3.64	N/A	0.50	mg/L	N/A	2017-07-14	
Chlorine, Total	1.46	N/A	0.02	mg/L	N/A	2017-07-14	HT2
Chlorine, Free	0.10	N/A	0.02	mg/L	N/A	2017-07-14	HT2
Colour, True	< 5.0	AO ≤ 15	5.0	CU	N/A	2017-07-14	
Conductivity (EC)	452	N/A	2.0	µS/cm	N/A	2017-07-14	
Cyanide, Free	< 0.0050	N/A	0.0050	mg/L	N/A	2017-07-25	
Nitrilotriacetic Acid	< 0.20	MAC = 0.4	0.20	mg/L	N/A	2017-07-18	
pH	7.52	7.0-10.5	0.01	pH units	N/A	2017-07-15	HT2
Sulfide, Total	< 0.050	AO ≤ 0.05	0.050	mg/L	2017-07-13	2017-07-13	
Turbidity	0.18	OG < 0.1	0.10	NTU	N/A	2017-07-14	

Calculated Parameters

Total Trihalomethanes	0.0645	MAC = 0.1	0.00400	mg/L	N/A	N/A	
Chloramines	1.36	MAC = 3	0.0200	mg/L	N/A	N/A	
Hardness, Total (as CaCO3)	178	N/A	0.500	mg/L	N/A	N/A	
Ion Balance	98.3	N/A	%		N/A	N/A	
Nitrate+Nitrite (as N)	< 0.0500	N/A	0.0500	mg/L	N/A	N/A	
Solids, Total Dissolved (calc)	240	N/A	2.00	mg/L	N/A	N/A	

Dissolved Metals

Calcium, dissolved	47.5	N/A	0.20	mg/L	N/A	2017-07-21	
Iron, dissolved	< 0.010	N/A	0.010	mg/L	N/A	2017-07-21	
Magnesium, dissolved	14.4	N/A	0.010	mg/L	N/A	2017-07-21	
Manganese, dissolved	0.00208	N/A	0.00020	mg/L	N/A	2017-07-21	
Potassium, dissolved	1.95	N/A	0.10	mg/L	N/A	2017-07-21	
Sodium, dissolved	17.2	N/A	0.10	mg/L	N/A	2017-07-21	

Total Metals

Aluminum, total	0.0552	OG < 0.1	0.0050	mg/L	2017-07-21	2017-07-21	
Antimony, total	0.12	MAC = 6	0.10	µg/L	2017-07-21	2017-07-21	
Arsenic, total	0.51	MAC = 10	0.50	µg/L	2017-07-21	2017-07-21	
Barium, total	87.9	MAC = 1000	5.0	µg/L	2017-07-21	2017-07-21	
Boron, total	19.7	MAC = 5000	5.0	µg/L	2017-07-21	2017-07-21	
Cadmium, total	< 0.010	MAC = 5	0.010	µg/L	2017-07-21	2017-07-21	

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Sample ID: G.T. Hydraulic (7071032-01) [Water] Sampled: 2017-07-12 10:15, Continued

Total Metals, Continued

Calcium, total	48.3	N/A	0.20	mg/L	2017-07-21	2017-07-21	
Chromium, total	< 0.50	MAC = 50	0.50	µg/L	2017-07-21	2017-07-21	
Copper, total	0.0180	AO ≤ 1	0.00020	mg/L	2017-07-21	2017-07-21	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2017-07-21	2017-07-21	
Lead, total	0.46	MAC = 10	0.10	µg/L	2017-07-21	2017-07-21	
Magnesium, total	14.9	N/A	0.010	mg/L	2017-07-21	2017-07-21	
Manganese, total	0.00557	AO ≤ 0.05	0.00020	mg/L	2017-07-21	2017-07-21	
Mercury, total	< 0.020	MAC = 1	0.020	µg/L	2017-07-25	2017-07-25	
Selenium, total	< 0.50	MAC = 50	0.50	µg/L	2017-07-21	2017-07-21	
Silver, total	< 0.000050	N/A	0.000050	mg/L	2017-07-21	2017-07-21	
Sodium, total	18.4	AO ≤ 200	0.10	mg/L	2017-07-21	2017-07-21	
Uranium, total	0.334	MAC = 20	0.020	µg/L	2017-07-21	2017-07-21	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2017-07-21	2017-07-21	

Microbiological Parameters

Microcystin, total (as LR)	< 0.00014	MAC = 0.0015	0.00014	mg/L	N/A	2017-07-14	
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Acid Herbicides

2,4-D	< 0.00010	MAC = 0.1	0.00010	mg/L	2017-07-14	2017-07-21	
Dicamba	< 0.00010	MAC = 0.12	0.00010	mg/L	2017-07-14	2017-07-21	
MCPA	< 0.00020	MAC = 0.1	0.00020	mg/L	2017-07-14	2017-07-21	
Picloram	< 0.00010	MAC = 0.19	0.00010	mg/L	2017-07-14	2017-07-21	

Miscellaneous Herbicides

Glyphosate	< 0.050	MAC = 0.28	0.050	mg/L	N/A	2017-07-24	
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Pesticides, Herbicides, and Fungicides

Alachlor	< 0.000100	N/A	0.000100	mg/L	2017-07-17	2017-07-20	
Aldrin	< 0.000040	N/A	0.000040	mg/L	2017-07-17	2017-07-20	
alpha-BHC	< 0.000050	N/A	0.000050	mg/L	2017-07-17	2017-07-20	
Atrazine	< 0.000100	N/A	0.000100	mg/L	2017-07-17	2017-07-20	
Atrazine-desethyl	< 0.000100	N/A	0.000100	mg/L	2017-07-17	2017-07-20	CST2
Atrazine and metabolites	< 0.000100	MAC = 0.005	0.000100	mg/L	2017-07-17	2017-07-20	CST2
Azinphos-methyl	< 0.000200	MAC = 0.02	0.000200	mg/L	2017-07-17	2017-07-20	
beta-BHC	< 0.000050	N/A	0.000050	mg/L	2017-07-17	2017-07-20	
Bromacil	< 0.000100	N/A	0.000100	mg/L	2017-07-17	2017-07-20	
Bromoxynil	< 0.000200	MAC = 0.005	0.000200	mg/L	2017-07-17	2017-07-20	
Captan	< 0.000100	N/A	0.000100	mg/L	2017-07-17	2017-07-20	
alpha-Chlordane	< 0.000050	N/A	0.000050	mg/L	2017-07-17	2017-07-20	
gamma-Chlordane	< 0.000050	N/A	0.000050	mg/L	2017-07-17	2017-07-20	
Chlorothalonil	< 0.000050	N/A	0.000050	mg/L	2017-07-17	2017-07-20	
Cyanazine	< 0.000200	N/A	0.000200	mg/L	2017-07-17	2017-07-20	
Chlorpyrifos	< 0.000020	MAC = 0.09	0.000020	mg/L	2017-07-17	2017-07-20	
delta-BHC	< 0.000050	N/A	0.000050	mg/L	2017-07-17	2017-07-20	
Deltamethrin	< 0.000100	N/A	0.000100	mg/L	2017-07-17	2017-07-20	
Diazinon	< 0.000030	MAC = 0.02	0.000030	mg/L	2017-07-17	2017-07-20	
Dichlorvos	< 0.000100	N/A	0.000100	mg/L	2017-07-17	2017-07-20	

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Sample ID: G.T. Hydraulic (7071032-01) [Water] Sampled: 2017-07-12 10:15, Continued

Pesticides, Herbicides, and Fungicides, Continued

Diclofop-methyl	< 0.000100	MAC = 0.009	0.000100	mg/L	2017-07-17	2017-07-20	
Dieldrin	< 0.000040	N/A	0.000040	mg/L	2017-07-17	2017-07-20	
Dimethoate	< 0.000200	MAC = 0.02	0.000200	mg/L	2017-07-17	2017-07-20	
Disulfoton	< 0.000100	N/A	0.000100	mg/L	2017-07-17	2017-07-20	
Diuron	< 0.000200	MAC = 0.15	0.000200	mg/L	2017-07-17	2017-07-20	
Endosulfan I	< 0.000050	N/A	0.000050	mg/L	2017-07-17	2017-07-20	
Endosulfan II	< 0.000050	N/A	0.000050	mg/L	2017-07-17	2017-07-20	
Endosulfan sulfate	< 0.000050	N/A	0.000050	mg/L	2017-07-17	2017-07-20	
Endrin	< 0.000020	N/A	0.000020	mg/L	2017-07-17	2017-07-20	
Endrin aldehyde	< 0.000050	N/A	0.000050	mg/L	2017-07-17	2017-07-20	
Endrin ketone	< 0.000050	N/A	0.000050	mg/L	2017-07-17	2017-07-20	
Fenchlorphos (Ronnel)	< 0.000100	N/A	0.000100	mg/L	2017-07-17	2017-07-20	
gamma-BHC (Lindane)	< 0.000050	N/A	0.000050	mg/L	2017-07-17	2017-07-20	
Heptachlor	< 0.000050	N/A	0.000050	mg/L	2017-07-17	2017-07-20	
Heptachlor epoxide	< 0.000050	N/A	0.000050	mg/L	2017-07-17	2017-07-20	
Linuron	< 0.000200	N/A	0.000200	mg/L	2017-07-17	2017-07-20	
Malathion	< 0.000100	MAC = 0.19	0.000100	mg/L	2017-07-17	2017-07-20	
Methoxychlor	< 0.000050	N/A	0.000050	mg/L	2017-07-17	2017-07-20	
Methyl parathion	< 0.000100	N/A	0.000100	mg/L	2017-07-17	2017-07-20	
Metolachlor	< 0.000100	MAC = 0.05	0.000100	mg/L	2017-07-17	2017-07-20	
Metribuzin	< 0.000200	MAC = 0.08	0.000200	mg/L	2017-07-17	2017-07-20	
p,p-DDD	< 0.000040	N/A	0.000040	mg/L	2017-07-17	2017-07-20	
p,p-DDE	< 0.000040	N/A	0.000040	mg/L	2017-07-17	2017-07-20	
p,p-DDT	< 0.000040	N/A	0.000040	mg/L	2017-07-17	2017-07-20	
Parathion	< 0.000100	N/A	0.000100	mg/L	2017-07-17	2017-07-20	
Pentachloronitrobenzene	< 0.000100	N/A	0.000100	mg/L	2017-07-17	2017-07-20	
cis-Permethrin	< 0.000100	N/A	0.000100	mg/L	2017-07-17	2017-07-20	
trans-Permethrin	< 0.000100	N/A	0.000100	mg/L	2017-07-17	2017-07-20	
Phorate	< 0.000100	MAC = 0.002	0.000100	mg/L	2017-07-17	2017-07-20	
Prometon	< 0.000300	N/A	0.000300	mg/L	2017-07-17	2017-07-20	
Simazine	< 0.000200	MAC = 0.01	0.000200	mg/L	2017-07-17	2017-07-20	
Sulfotep	< 0.000100	N/A	0.000100	mg/L	2017-07-17	2017-07-20	
Tebuthiuron	< 0.000200	N/A	0.000200	mg/L	2017-07-17	2017-07-20	
Temephos (Abate)	< 0.000500	N/A	0.000500	mg/L	2017-07-17	2017-07-20	
Terbufos	< 0.000100	MAC = 0.001	0.000100	mg/L	2017-07-17	2017-07-20	
Triallate	< 0.000100	N/A	0.000100	mg/L	2017-07-17	2017-07-20	
Trifluralin	< 0.000200	MAC = 0.045	0.000200	mg/L	2017-07-17	2017-07-20	
Surrogate: Tributyl Phosphate	89		41-114	%	2017-07-17	2017-07-20	
Surrogate: 4-chloro-3-nitrobenzotrifluoride	72		38-125	%	2017-07-17	2017-07-20	

Chlorinated Phenols

2,4-Dichlorophenol	< 0.00020	AO ≤ 0.0003	0.00020	mg/L	2017-07-20	2017-07-22	
2,4,6-Trichlorophenol	< 0.00050	AO ≤ 0.002	0.00050	mg/L	2017-07-20	2017-07-22	
2,3,4,6-Tetrachlorophenol	< 0.00050	AO ≤ 0.001	0.00050	mg/L	2017-07-20	2017-07-22	
Pentachlorophenol	< 0.00050	AO ≤ 0.03	0.00050	mg/L	2017-07-20	2017-07-22	

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Sample ID: G.T. Hydraulic (7071032-01) [Water] Sampled: 2017-07-12 10:15, Continued

<i>Polycyclic Aromatic Hydrocarbons (PAH)</i>							
Benzo(a)pyrene	< 0.000010	MAC = 0.00004	0.000010	mg/L	2017-07-24	2017-07-26	
<i>Volatile Organic Compounds (VOC)</i>							
Benzene	< 0.0005	MAC = 0.005	0.0005	mg/L	N/A	2017-07-21	
Bromodichloromethane	0.0032	N/A	0.0010	mg/L	N/A	2017-07-21	
Bromoform	< 0.0010	N/A	0.0010	mg/L	N/A	2017-07-21	
Carbon tetrachloride	< 0.0005	MAC = 0.002	0.0005	mg/L	N/A	2017-07-21	
Monochlorobenzene	< 0.0010	AO ≤ 0.03	0.0010	mg/L	N/A	2017-07-21	
Chloroform	0.0613	N/A	0.0010	mg/L	N/A	2017-07-21	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	N/A	2017-07-21	
1,2-Dichlorobenzene	< 0.0005	AO ≤ 0.003	0.0005	mg/L	N/A	2017-07-21	
1,4-Dichlorobenzene	< 0.0010	AO ≤ 0.001	0.0010	mg/L	N/A	2017-07-21	
1,2-Dichloroethane	< 0.0010	MAC = 0.005	0.0010	mg/L	N/A	2017-07-21	
1,1-Dichloroethylene	< 0.0010	MAC = 0.014	0.0010	mg/L	N/A	2017-07-21	
Ethylbenzene	< 0.0010	AO ≤ 0.0016	0.0010	mg/L	N/A	2017-07-21	
Methyl tert-butyl ether	< 0.0010	AO ≤ 0.015	0.0010	mg/L	N/A	2017-07-21	
Dichloromethane	< 0.0030	MAC = 0.05	0.0030	mg/L	N/A	2017-07-21	
Tetrachloroethylene	< 0.0010	MAC = 0.01	0.0010	mg/L	N/A	2017-07-21	
Toluene	< 0.0010	AO ≤ 0.024	0.0010	mg/L	N/A	2017-07-21	
Trichloroethylene	< 0.0010	MAC = 0.005	0.0010	mg/L	N/A	2017-07-21	
Vinyl chloride	< 0.0010	MAC = 0.002	0.0010	mg/L	N/A	2017-07-21	
Xylenes (total)	< 0.0020	AO ≤ 0.02	0.0020	mg/L	N/A	2017-07-21	

Sample ID: Town Shop (7071032-02) [Water] Sampled: 2017-07-12 09:45

<i>Calculated Parameters</i>							
Total Trihalomethanes	0.0686	MAC = 0.1	0.00400	mg/L	N/A	N/A	
<i>Volatile Organic Compounds (VOC)</i>							
Bromodichloromethane	0.0034	N/A	0.0010	mg/L	N/A	2017-07-17	CT2
Bromoform	< 0.0010	N/A	0.0010	mg/L	N/A	2017-07-17	
Chloroform	0.0651	N/A	0.0010	mg/L	N/A	2017-07-17	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	N/A	2017-07-17	

Sample ID: Turtle Club (7071032-03) [Water] Sampled: 2017-07-12 09:55

<i>Calculated Parameters</i>							
Total Trihalomethanes	0.0690	MAC = 0.1	0.00400	mg/L	N/A	N/A	
<i>Volatile Organic Compounds (VOC)</i>							
Bromodichloromethane	0.0032	N/A	0.0010	mg/L	N/A	2017-07-17	CT2
Bromoform	< 0.0010	N/A	0.0010	mg/L	N/A	2017-07-17	
Chloroform	0.0658	N/A	0.0010	mg/L	N/A	2017-07-17	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	N/A	2017-07-17	

REPORTED TO Stettler, Town of (Alberta)
PROJECT Distribution System - Biannual Analysis

WORK ORDER 7071032
REPORTED 2017-08-03

Sample / Analysis Qualifiers:

CST2 < RL for DEA confirmed on GCTQ1 21-Jul-2017
CT2 Excessive headspace in sample container - VOC results may be compromised.
HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.