

**REPORTED TO** Associated Engineering (Burnaby) Ltd.  
300 - 4940 Canada Way  
Burnaby, BC V5G 4M5

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**ATTENTION** Sabrina Diemert

**WORK ORDER** 6041666

**PO NUMBER**

**RECEIVED / TEMP** 2016-04-22 16:25 / 8°C

**PROJECT** NCID

**REPORTED** 2016-05-09

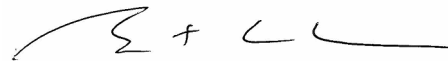
**PROJECT INFO**

**COC NUMBER** B 42163

**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.

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Authorized By:

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Division Manager, Richmond

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Analysis Description	Method Reference	Technique	Location
Alkalinity, Total in Water	APHA 2320 B*	Titration with H2SO4	Kelowna
Carbon, Dissolved Organic in Water	APHA 5310 B	High Temperature Combustion, Infrared CO2 Detection	Kelowna
Carbon, Total Organic in Water	APHA 5310 B	High Temperature Combustion, Infrared CO2 Detection	Kelowna
Chlorine Demand, Free in Water	APHA 5710 B	Chlorination, 7-day Incubation	N/A
Colour, Apparent in Water	APHA 2120 B	Visual Comparison	Kelowna
Colour, True in Water	APHA 2120 C	Spectrophotometry (456 nm)	Kelowna
Dissolved Metals in Water	APHA 3030 B / APHA 3125 B	0.45 µm Filtration / Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	Richmond
Free Chlorine, Final Dose in Water	APHA 4500-Cl G	Colorimetry (DPD)	Kelowna
Free Chlorine, Initial Dose in Water	APHA 4500-Cl G	Colorimetry (DPD)	Kelowna
Haloacetic Acids in Water	EPA 552.3	Liquid-Liquid Microextraction, Derivatization and GC-ECD	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
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
Solids, Total Dissolved in Water	APHA 2540 C*	Gravimetry (Dried at 103-105C)	Kelowna
THMFP Incubation Temperature in Water	APHA 5710 B	Chlorination, 7-day Incubation	Kelowna
THMFP Incubation Time in Water	APHA 5710 B	Chlorination, 7-day Incubation	Kelowna
Total Recoverable Metals in Water	APHA 3030E* / APHA 3125 B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	Richmond
Total Trihalomethanes (as CHCl3) in Water	APHA 5710 B	Chlorination, 7-day Incubation	N/A
Transmissivity at 254 nm in Water	APHA 5910 B	Ultraviolet Absorption	Kelowna
Trihalomethanes in Water	EPA 5030B / APHA 6200 B	Purge&Trap / Purge and Trap Capillary Column GC-MSD	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  
 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  
 % T Percent Transmittance  
 °C Degrees Celcius  
 CU Colour Units (referenced against a platinum cobalt standard)  
 mg/L Milligrams per litre  
 pH units pH < 7 = acidic, pH > 7 = basic

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2016-05-09

Analyte	Result / Recovery	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: Well #1 Raw (6041666-01) [Water] Sampled: 2016-04-21 17:30**

**General Parameters**

Alkalinity, Total (as CaCO3)	32	1	mg/L	N/A	2016-04-26	
Carbon, Total Organic	< 0.5	0.5	mg/L	N/A	2016-04-26	
Carbon, Dissolved Organic	< 0.5	0.5	mg/L	2016-04-22	2016-04-26	
Colour, Apparent	< 5	5	CU	N/A	2016-04-25	HT1
Colour, True	< 5	5	CU	N/A	2016-04-25	HT1
pH	7.46	0.01	pH units	N/A	2016-04-26	HT2
Solids, Total Dissolved	49	10	mg/L	N/A	2016-04-26	
UV Transmittance @ 254nm	98.8	0.1	% T	N/A	2016-04-25	HT1

**Calculated Parameters**

Hardness, Total (as CaCO3)	28.4	5.0	mg/L	N/A	N/A	
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**Dissolved Metals**

Aluminum, dissolved	< 0.05	0.05	mg/L	N/A	2016-04-28	
Antimony, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Arsenic, dissolved	< 0.005	0.005	mg/L	N/A	2016-04-28	
Barium, dissolved	< 0.05	0.05	mg/L	N/A	2016-04-28	
Beryllium, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Bismuth, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Boron, dissolved	< 0.04	0.04	mg/L	N/A	2016-04-28	
Cadmium, dissolved	< 0.0001	0.0001	mg/L	N/A	2016-04-28	
Calcium, dissolved	8.9	2.0	mg/L	N/A	2016-04-28	
Chromium, dissolved	< 0.005	0.005	mg/L	N/A	2016-04-28	
Cobalt, dissolved	< 0.0005	0.0005	mg/L	N/A	2016-04-28	
Copper, dissolved	0.003	0.002	mg/L	N/A	2016-04-28	
Iron, dissolved	< 0.10	0.10	mg/L	N/A	2016-04-28	
Lead, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Lithium, dissolved	0.001	0.001	mg/L	N/A	2016-04-28	
Magnesium, dissolved	1.5	0.1	mg/L	N/A	2016-04-28	
Manganese, dissolved	0.010	0.002	mg/L	N/A	2016-04-28	
Mercury, dissolved	< 0.00002	0.00002	mg/L	2016-04-26	2016-04-27	
Molybdenum, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Nickel, dissolved	< 0.002	0.002	mg/L	N/A	2016-04-28	
Phosphorus, dissolved	< 0.2	0.2	mg/L	N/A	2016-04-28	
Potassium, dissolved	< 0.2	0.2	mg/L	N/A	2016-04-28	
Selenium, dissolved	< 0.005	0.005	mg/L	N/A	2016-04-28	
Silicon, dissolved	< 5	5	mg/L	N/A	2016-04-28	
Silver, dissolved	< 0.0005	0.0005	mg/L	N/A	2016-04-28	
Sodium, dissolved	7.2	0.2	mg/L	N/A	2016-04-28	
Strontium, dissolved	0.06	0.01	mg/L	N/A	2016-04-28	
Sulfur, dissolved	< 10	10	mg/L	N/A	2016-04-28	
Tellurium, dissolved	< 0.002	0.002	mg/L	N/A	2016-04-28	
Thallium, dissolved	< 0.0002	0.0002	mg/L	N/A	2016-04-28	
Thorium, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Tin, dissolved	< 0.002	0.002	mg/L	N/A	2016-04-28	
Titanium, dissolved	< 0.05	0.05	mg/L	N/A	2016-04-28	

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Analyte	Result / Recovery	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: Well #1 Raw (6041666-01) [Water] Sampled: 2016-04-21 17:30, Continued**

***Dissolved Metals, Continued***

Uranium, dissolved	< 0.0002	0.0002	mg/L	N/A	2016-04-28	
Vanadium, dissolved	< 0.01	0.01	mg/L	N/A	2016-04-28	
Zinc, dissolved	< 0.04	0.04	mg/L	N/A	2016-04-28	
Zirconium, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	

***Total Recoverable Metals***

Aluminum, total	< 0.05	0.05	mg/L	2016-04-28	2016-04-28	
Antimony, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Arsenic, total	< 0.005	0.005	mg/L	2016-04-28	2016-04-28	
Barium, total	< 0.05	0.05	mg/L	2016-04-28	2016-04-28	
Beryllium, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Bismuth, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Boron, total	< 0.04	0.04	mg/L	2016-04-28	2016-04-28	
Cadmium, total	< 0.0001	0.0001	mg/L	2016-04-28	2016-04-28	
Calcium, total	<b>10.5</b>	2.0	mg/L	2016-04-28	2016-04-28	
Chromium, total	< 0.005	0.005	mg/L	2016-04-28	2016-04-28	
Cobalt, total	< 0.0005	0.0005	mg/L	2016-04-28	2016-04-28	
Copper, total	<b>0.005</b>	0.002	mg/L	2016-04-28	2016-04-28	
Iron, total	< 0.10	0.10	mg/L	2016-04-28	2016-04-28	
Lead, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Lithium, total	<b>0.001</b>	0.001	mg/L	2016-04-28	2016-04-28	
Magnesium, total	<b>1.6</b>	0.1	mg/L	2016-04-28	2016-04-28	
Manganese, total	<b>0.011</b>	0.002	mg/L	2016-04-28	2016-04-28	
Mercury, total	< 0.00002	0.00002	mg/L	2016-04-26	2016-04-26	
Molybdenum, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Nickel, total	< 0.002	0.002	mg/L	2016-04-28	2016-04-28	
Phosphorus, total	< 0.2	0.2	mg/L	2016-04-28	2016-04-28	
Potassium, total	<b>0.6</b>	0.2	mg/L	2016-04-28	2016-04-28	
Selenium, total	< 0.005	0.005	mg/L	2016-04-28	2016-04-28	
Silicon, total	< 5	5	mg/L	2016-04-28	2016-04-28	
Silver, total	< 0.0005	0.0005	mg/L	2016-04-28	2016-04-28	
Sodium, total	<b>7.8</b>	0.2	mg/L	2016-04-28	2016-04-28	
Strontium, total	<b>0.06</b>	0.01	mg/L	2016-04-28	2016-04-28	
Sulfur, total	<b>11</b>	10	mg/L	2016-04-28	2016-04-28	
Tellurium, total	< 0.002	0.002	mg/L	2016-04-28	2016-04-28	
Thallium, total	< 0.0002	0.0002	mg/L	2016-04-28	2016-04-28	
Thorium, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Tin, total	< 0.002	0.002	mg/L	2016-04-28	2016-04-28	
Titanium, total	< 0.05	0.05	mg/L	2016-04-28	2016-04-28	
Uranium, total	< 0.0002	0.0002	mg/L	2016-04-28	2016-04-28	
Vanadium, total	< 0.01	0.01	mg/L	2016-04-28	2016-04-28	
Zinc, total	< 0.04	0.04	mg/L	2016-04-28	2016-04-28	
Zirconium, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	

**Sample ID: Well # 1 Raw (6041666-02) [Water] Sampled: 2016-04-21 17:30 To 2016-05-02 11:00**

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2016-05-09

Analyte	Result / Recovery	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: Well # 1 Raw (6041666-02) [Water] Sampled: 2016-04-21 17:30 To 2016-05-02 11:00, Continued**

<b>General Parameters</b>						
pH	6.91	0.01	pH units	N/A	2016-04-27	HT2
<b>Haloacetic Acids</b>						
Monochloroacetic Acid	< 0.002	0.002	mg/L	2016-05-05	2016-05-06	
Monobromoacetic Acid	0.002	0.002	mg/L	2016-05-05	2016-05-06	
Dichloroacetic Acid	0.076	0.002	mg/L	2016-05-05	2016-05-06	
Trichloroacetic Acid	0.005	0.002	mg/L	2016-05-05	2016-05-06	
Dibromoacetic Acid	0.002	0.002	mg/L	2016-05-05	2016-05-06	
Surrogate: 2-Bromopropionic Acid	134	87-159	%	2016-05-05	2016-05-06	
<b>THM Formation Potential / Chlorine Demand</b>						
Incubation Time	7.0		Days	2016-04-25	2016-05-02	
Incubation Temperature	20	1	°C	2016-04-25	2016-05-02	
Total Haloacetic Acids (HAA5)	0.08	0.002	mg/L	N/A	N/A	
Free Chlorine, Initial Dose	5.25	0.05	mg/L	2016-04-25	2016-05-02	
Free Chlorine, Final	4.70	0.05	mg/L	2016-04-25	2016-05-02	
Chlorine Demand, Free	0.55	0.05	mg/L	N/A	N/A	
Total Trihalomethanes	0.01	0.001	mg/L	N/A	N/A	
Total Trihalomethanes (as CHCl3)	0.01	0.001	mg/L	N/A	N/A	
<b>Volatile Organic Compounds (VOC)</b>						
Bromodichloromethane	0.003	0.001	mg/L	N/A	2016-05-04	
Bromoform	< 0.001	0.001	mg/L	N/A	2016-05-04	
Chloroform	0.010	0.001	mg/L	N/A	2016-05-04	
Dibromochloromethane	< 0.001	0.001	mg/L	N/A	2016-05-04	
Surrogate: Toluene-d8	98	70-130	%	N/A	2016-05-04	
Surrogate: 4-Bromofluorobenzene	100	70-130	%	N/A	2016-05-04	

**Sample ID: Well #1 Treated (6041666-03) [Water] Sampled: 2016-04-21 17:30**

<b>General Parameters</b>						
Alkalinity, Total (as CaCO3)	30	1	mg/L	N/A	2016-04-26	
Carbon, Total Organic	< 0.5	0.5	mg/L	N/A	2016-04-26	
Carbon, Dissolved Organic	< 0.5	0.5	mg/L	2016-04-22	2016-04-26	
Colour, Apparent	< 5	5	CU	N/A	2016-04-25	HT1
Colour, True	< 5	5	CU	N/A	2016-04-25	HT1
pH	7.44	0.01	pH units	N/A	2016-04-26	HT2
Solids, Total Dissolved	56	10	mg/L	N/A	2016-04-26	
UV Transmittance @ 254nm	99.1	0.1	% T	N/A	2016-04-25	HT1
<b>Calculated Parameters</b>						
Hardness, Total (as CaCO3)	27.9	5.0	mg/L	N/A	N/A	
<b>Dissolved Metals</b>						
Aluminum, dissolved	0.12	0.05	mg/L	N/A	2016-04-28	
Antimony, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Arsenic, dissolved	< 0.005	0.005	mg/L	N/A	2016-04-28	

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Analyte	Result / Recovery	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: Well #1 Treated (6041666-03) [Water] Sampled: 2016-04-21 17:30, Continued**

***Dissolved Metals, Continued***

Barium, dissolved	< 0.05	0.05	mg/L	N/A	2016-04-28	
Beryllium, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Bismuth, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Boron, dissolved	< 0.04	0.04	mg/L	N/A	2016-04-28	
Cadmium, dissolved	< 0.0001	0.0001	mg/L	N/A	2016-04-28	
Calcium, dissolved	<b>8.8</b>	2.0	mg/L	N/A	2016-04-28	
Chromium, dissolved	< 0.005	0.005	mg/L	N/A	2016-04-28	
Cobalt, dissolved	< 0.0005	0.0005	mg/L	N/A	2016-04-28	
Copper, dissolved	<b>0.006</b>	0.002	mg/L	N/A	2016-04-28	
Iron, dissolved	< 0.10	0.10	mg/L	N/A	2016-04-28	
Lead, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Lithium, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Magnesium, dissolved	<b>1.5</b>	0.1	mg/L	N/A	2016-04-28	
Manganese, dissolved	<b>0.010</b>	0.002	mg/L	N/A	2016-04-28	
Mercury, dissolved	< 0.00002	0.00002	mg/L	2016-04-26	2016-04-27	
Molybdenum, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Nickel, dissolved	< 0.002	0.002	mg/L	N/A	2016-04-28	
Phosphorus, dissolved	< 0.2	0.2	mg/L	N/A	2016-04-28	
Potassium, dissolved	< 0.2	0.2	mg/L	N/A	2016-04-28	
Selenium, dissolved	< 0.005	0.005	mg/L	N/A	2016-04-28	
Silicon, dissolved	< 5	5	mg/L	N/A	2016-04-28	
Silver, dissolved	< 0.0005	0.0005	mg/L	N/A	2016-04-28	
Sodium, dissolved	<b>7.3</b>	0.2	mg/L	N/A	2016-04-28	
Strontium, dissolved	<b>0.05</b>	0.01	mg/L	N/A	2016-04-28	
Sulfur, dissolved	< 10	10	mg/L	N/A	2016-04-28	
Tellurium, dissolved	< 0.002	0.002	mg/L	N/A	2016-04-28	
Thallium, dissolved	< 0.0002	0.0002	mg/L	N/A	2016-04-28	
Thorium, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Tin, dissolved	< 0.002	0.002	mg/L	N/A	2016-04-28	
Titanium, dissolved	< 0.05	0.05	mg/L	N/A	2016-04-28	
Uranium, dissolved	< 0.0002	0.0002	mg/L	N/A	2016-04-28	
Vanadium, dissolved	< 0.01	0.01	mg/L	N/A	2016-04-28	
Zinc, dissolved	< 0.04	0.04	mg/L	N/A	2016-04-28	
Zirconium, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	

***Total Recoverable Metals***

Aluminum, total	<b>0.76</b>	0.05	mg/L	2016-04-28	2016-04-28	
Antimony, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Arsenic, total	< 0.005	0.005	mg/L	2016-04-28	2016-04-28	
Barium, total	< 0.05	0.05	mg/L	2016-04-28	2016-04-28	
Beryllium, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Bismuth, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Boron, total	< 0.04	0.04	mg/L	2016-04-28	2016-04-28	
Cadmium, total	< 0.0001	0.0001	mg/L	2016-04-28	2016-04-28	
Calcium, total	<b>9.7</b>	2.0	mg/L	2016-04-28	2016-04-28	
Chromium, total	< 0.005	0.005	mg/L	2016-04-28	2016-04-28	

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Analyte	Result / Recovery	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: Well #1 Treated (6041666-03) [Water] Sampled: 2016-04-21 17:30, Continued**

**Total Recoverable Metals, Continued**

Cobalt, total	< 0.0005	0.0005	mg/L	2016-04-28	2016-04-28	
Copper, total	<b>0.011</b>	0.002	mg/L	2016-04-28	2016-04-28	
Iron, total	< 0.10	0.10	mg/L	2016-04-28	2016-04-28	
Lead, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Lithium, total	<b>0.001</b>	0.001	mg/L	2016-04-28	2016-04-28	
Magnesium, total	<b>1.6</b>	0.1	mg/L	2016-04-28	2016-04-28	
Manganese, total	<b>0.011</b>	0.002	mg/L	2016-04-28	2016-04-28	
Mercury, total	< 0.00002	0.00002	mg/L	2016-04-26	2016-04-26	
Molybdenum, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Nickel, total	< 0.002	0.002	mg/L	2016-04-28	2016-04-28	
Phosphorus, total	< 0.2	0.2	mg/L	2016-04-28	2016-04-28	
Potassium, total	<b>0.4</b>	0.2	mg/L	2016-04-28	2016-04-28	
Selenium, total	< 0.005	0.005	mg/L	2016-04-28	2016-04-28	
Silicon, total	< 5	5	mg/L	2016-04-28	2016-04-28	
Silver, total	< 0.0005	0.0005	mg/L	2016-04-28	2016-04-28	
Sodium, total	<b>8.0</b>	0.2	mg/L	2016-04-28	2016-04-28	
Strontium, total	<b>0.06</b>	0.01	mg/L	2016-04-28	2016-04-28	
Sulfur, total	< 10	10	mg/L	2016-04-28	2016-04-28	
Tellurium, total	< 0.002	0.002	mg/L	2016-04-28	2016-04-28	
Thallium, total	< 0.0002	0.0002	mg/L	2016-04-28	2016-04-28	
Thorium, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Tin, total	< 0.002	0.002	mg/L	2016-04-28	2016-04-28	
Titanium, total	< 0.05	0.05	mg/L	2016-04-28	2016-04-28	
Uranium, total	< 0.0002	0.0002	mg/L	2016-04-28	2016-04-28	
Vanadium, total	< 0.01	0.01	mg/L	2016-04-28	2016-04-28	
Zinc, total	< 0.04	0.04	mg/L	2016-04-28	2016-04-28	
Zirconium, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	

**Sample ID: Well #1 Treated (6041666-04) [Water] Sampled: 2016-04-21 17:30 To 2016-05-02 11:00**

**General Parameters**

pH	<b>7.05</b>	0.01	pH units	N/A	2016-04-27	HT2
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**Haloacetic Acids**

Monochloroacetic Acid	< 0.002	0.002	mg/L	2016-05-05	2016-05-06	
Monobromoacetic Acid	< 0.002	0.002	mg/L	2016-05-05	2016-05-06	
Dichloroacetic Acid	<b>0.067</b>	0.002	mg/L	2016-05-05	2016-05-06	
Trichloroacetic Acid	<b>0.005</b>	0.002	mg/L	2016-05-05	2016-05-06	
Dibromoacetic Acid	<b>0.002</b>	0.002	mg/L	2016-05-05	2016-05-06	
<i>Surrogate: 2-Bromopropionic Acid</i>	<i>134</i>	<i>87-159</i>	<i>%</i>	<i>2016-05-05</i>	<i>2016-05-06</i>	

**THM Formation Potential / Chlorine Demand**

Incubation Time	<b>7.0</b>		Days	2016-04-25	2016-05-02	
Incubation Temperature	<b>20</b>	1	°C	2016-04-25	2016-05-02	
Total Haloacetic Acids (HAA5)	<b>0.07</b>	0.002	mg/L	N/A	N/A	
Free Chlorine, Initial Dose	<b>5.25</b>	0.05	mg/L	2016-04-25	2016-05-02	



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Analyte	Result / Recovery	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: Well #1 Treated (6041666-04) [Water] Sampled: 2016-04-21 17:30 To 2016-05-02 11:00, Continued**

**THM Formation Potential / Chlorine Demand, Continued**

Free Chlorine, Final	4.50	0.05	mg/L	2016-04-25	2016-05-02	
Chlorine Demand, Free	0.75	0.05	mg/L	N/A	N/A	
Total Trihalomethanes	0.01	0.001	mg/L	N/A	N/A	
Total Trihalomethanes (as CHCl3)	0.01	0.001	mg/L	N/A	N/A	

**Volatile Organic Compounds (VOC)**

Bromodichloromethane	0.003	0.001	mg/L	N/A	2016-05-04	
Bromoform	< 0.001	0.001	mg/L	N/A	2016-05-04	
Chloroform	0.011	0.001	mg/L	N/A	2016-05-04	
Dibromochloromethane	< 0.001	0.001	mg/L	N/A	2016-05-04	
Surrogate: Toluene-d8	97	70-130	%	N/A	2016-05-04	
Surrogate: 4-Bromofluorobenzene	97	70-130	%	N/A	2016-05-04	

**Sample ID: Well #3 Raw (6041666-05) [Water] Sampled: 2016-04-21 17:40**

**General Parameters**

Alkalinity, Total (as CaCO3)	24	1	mg/L	N/A	2016-04-26	
Carbon, Total Organic	< 0.5	0.5	mg/L	N/A	2016-04-26	
Carbon, Dissolved Organic	< 0.5	0.5	mg/L	2016-04-22	2016-04-26	
Colour, Apparent	< 5	5	CU	N/A	2016-04-25	HT1
Colour, True	< 5	5	CU	N/A	2016-04-25	HT1
pH	7.52	0.01	pH units	N/A	2016-04-26	HT2
Solids, Total Dissolved	51	10	mg/L	N/A	2016-04-26	
UV Transmittance @ 254nm	99.0	0.1	% T	N/A	2016-04-25	HT1

**Calculated Parameters**

Hardness, Total (as CaCO3)	22.7	5.0	mg/L	N/A	N/A	
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**Dissolved Metals**

Aluminum, dissolved	< 0.05	0.05	mg/L	N/A	2016-04-28	
Antimony, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Arsenic, dissolved	< 0.005	0.005	mg/L	N/A	2016-04-28	
Barium, dissolved	< 0.05	0.05	mg/L	N/A	2016-04-28	
Beryllium, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Bismuth, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Boron, dissolved	< 0.04	0.04	mg/L	N/A	2016-04-28	
Cadmium, dissolved	< 0.0001	0.0001	mg/L	N/A	2016-04-28	
Calcium, dissolved	7.5	2.0	mg/L	N/A	2016-04-28	
Chromium, dissolved	< 0.005	0.005	mg/L	N/A	2016-04-28	
Cobalt, dissolved	< 0.0005	0.0005	mg/L	N/A	2016-04-28	
Copper, dissolved	< 0.002	0.002	mg/L	N/A	2016-04-28	
Iron, dissolved	< 0.10	0.10	mg/L	N/A	2016-04-28	
Lead, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Lithium, dissolved	0.002	0.001	mg/L	N/A	2016-04-28	
Magnesium, dissolved	0.9	0.1	mg/L	N/A	2016-04-28	
Manganese, dissolved	< 0.002	0.002	mg/L	N/A	2016-04-28	



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Analyte	Result / Recovery	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: Well #3 Raw (6041666-05) [Water] Sampled: 2016-04-21 17:40, Continued**

***Dissolved Metals, Continued***

Mercury, dissolved	< 0.00002	0.00002	mg/L	2016-04-26	2016-04-27	
Molybdenum, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Nickel, dissolved	< 0.002	0.002	mg/L	N/A	2016-04-28	
Phosphorus, dissolved	< 0.2	0.2	mg/L	N/A	2016-04-28	
Potassium, dissolved	< 0.2	0.2	mg/L	N/A	2016-04-28	
Selenium, dissolved	< 0.005	0.005	mg/L	N/A	2016-04-28	
Silicon, dissolved	< 5	5	mg/L	N/A	2016-04-28	
Silver, dissolved	< 0.0005	0.0005	mg/L	N/A	2016-04-28	
Sodium, dissolved	<b>10.6</b>	0.2	mg/L	N/A	2016-04-28	
Strontium, dissolved	<b>0.06</b>	0.01	mg/L	N/A	2016-04-28	
Sulfur, dissolved	< 10	10	mg/L	N/A	2016-04-28	
Tellurium, dissolved	< 0.002	0.002	mg/L	N/A	2016-04-28	
Thallium, dissolved	< 0.0002	0.0002	mg/L	N/A	2016-04-28	
Thorium, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Tin, dissolved	< 0.002	0.002	mg/L	N/A	2016-04-28	
Titanium, dissolved	< 0.05	0.05	mg/L	N/A	2016-04-28	
Uranium, dissolved	< 0.0002	0.0002	mg/L	N/A	2016-04-28	
Vanadium, dissolved	< 0.01	0.01	mg/L	N/A	2016-04-28	
Zinc, dissolved	< 0.04	0.04	mg/L	N/A	2016-04-28	
Zirconium, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	

***Total Recoverable Metals***

Aluminum, total	<b>0.22</b>	0.05	mg/L	2016-04-28	2016-04-28	
Antimony, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Arsenic, total	< 0.005	0.005	mg/L	2016-04-28	2016-04-28	
Barium, total	< 0.05	0.05	mg/L	2016-04-28	2016-04-28	
Beryllium, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Bismuth, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Boron, total	<b>0.04</b>	0.04	mg/L	2016-04-28	2016-04-28	
Cadmium, total	< 0.0001	0.0001	mg/L	2016-04-28	2016-04-28	
Calcium, total	<b>8.4</b>	2.0	mg/L	2016-04-28	2016-04-28	
Chromium, total	< 0.005	0.005	mg/L	2016-04-28	2016-04-28	
Cobalt, total	< 0.0005	0.0005	mg/L	2016-04-28	2016-04-28	
Copper, total	<b>0.003</b>	0.002	mg/L	2016-04-28	2016-04-28	
Iron, total	< 0.10	0.10	mg/L	2016-04-28	2016-04-28	
Lead, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Lithium, total	<b>0.002</b>	0.001	mg/L	2016-04-28	2016-04-28	
Magnesium, total	<b>1.1</b>	0.1	mg/L	2016-04-28	2016-04-28	
Manganese, total	< 0.002	0.002	mg/L	2016-04-28	2016-04-28	
Mercury, total	< 0.00002	0.00002	mg/L	2016-04-26	2016-04-26	
Molybdenum, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Nickel, total	< 0.002	0.002	mg/L	2016-04-28	2016-04-28	
Phosphorus, total	< 0.2	0.2	mg/L	2016-04-28	2016-04-28	
Potassium, total	<b>0.4</b>	0.2	mg/L	2016-04-28	2016-04-28	
Selenium, total	< 0.005	0.005	mg/L	2016-04-28	2016-04-28	
Silicon, total	< 5	5	mg/L	2016-04-28	2016-04-28	

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Analyte	Result / Recovery	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: Well #3 Raw (6041666-05) [Water] Sampled: 2016-04-21 17:40, Continued**

**Total Recoverable Metals, Continued**

Silver, total	< 0.0005	0.0005	mg/L	2016-04-28	2016-04-28	
Sodium, total	<b>12.2</b>	0.2	mg/L	2016-04-28	2016-04-28	
Strontium, total	<b>0.06</b>	0.01	mg/L	2016-04-28	2016-04-28	
Sulfur, total	< 10	10	mg/L	2016-04-28	2016-04-28	
Tellurium, total	< 0.002	0.002	mg/L	2016-04-28	2016-04-28	
Thallium, total	< 0.0002	0.0002	mg/L	2016-04-28	2016-04-28	
Thorium, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Tin, total	< 0.002	0.002	mg/L	2016-04-28	2016-04-28	
Titanium, total	< 0.05	0.05	mg/L	2016-04-28	2016-04-28	
Uranium, total	< 0.0002	0.0002	mg/L	2016-04-28	2016-04-28	
Vanadium, total	< 0.01	0.01	mg/L	2016-04-28	2016-04-28	
Zinc, total	< 0.04	0.04	mg/L	2016-04-28	2016-04-28	
Zirconium, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	

**Sample ID: Well # 3 Raw (6041666-06) [Water] Sampled: 2016-04-21 17:40 To 2016-05-02 11:00**

**General Parameters**

pH	<b>7.12</b>	0.01	pH units	N/A	2016-04-27	HT2
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**Haloacetic Acids**

Monochloroacetic Acid	< 0.002	0.002	mg/L	2016-05-05	2016-05-06	
Monobromoacetic Acid	< 0.002	0.002	mg/L	2016-05-05	2016-05-06	
Dichloroacetic Acid	<b>0.023</b>	0.002	mg/L	2016-05-05	2016-05-06	
Trichloroacetic Acid	<b>0.008</b>	0.002	mg/L	2016-05-05	2016-05-06	
Dibromoacetic Acid	< 0.002	0.002	mg/L	2016-05-05	2016-05-06	
Surrogate: 2-Bromopropionic Acid	135	87-159	%	2016-05-05	2016-05-06	

**THM Formation Potential / Chlorine Demand**

Incubation Time	<b>7.0</b>		Days	2016-04-25	2016-05-02	
Incubation Temperature	<b>20</b>	1	°C	2016-04-25	2016-05-02	
Total Haloacetic Acids (HAA5)	<b>0.03</b>	0.002	mg/L	N/A	N/A	
Free Chlorine, Initial Dose	<b>4.90</b>	0.05	mg/L	2016-04-25	2016-05-02	
Free Chlorine, Final	<b>3.90</b>	0.05	mg/L	2016-04-25	2016-05-02	
Chlorine Demand, Free	<b>1.00</b>	0.05	mg/L	N/A	N/A	
Total Trihalomethanes	<b>0.02</b>	0.001	mg/L	N/A	N/A	
Total Trihalomethanes (as CHCl3)	<b>0.02</b>	0.001	mg/L	N/A	N/A	

**Volatile Organic Compounds (VOC)**

Bromodichloromethane	<b>0.005</b>	0.001	mg/L	N/A	2016-05-04	
Bromoform	< 0.001	0.001	mg/L	N/A	2016-05-04	
Chloroform	<b>0.011</b>	0.001	mg/L	N/A	2016-05-04	
Dibromochloromethane	<b>0.001</b>	0.001	mg/L	N/A	2016-05-04	
Surrogate: Toluene-d8	98	70-130	%	N/A	2016-05-04	
Surrogate: 4-Bromofluorobenzene	98	70-130	%	N/A	2016-05-04	

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**Sample / Analysis Qualifiers:**

HT1 The sample was prepared / analyzed past the recommended holding time.  
HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.

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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
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**Dissolved Metals, Batch B6D1467**

<b>Blank (B6D1467-BLK1)</b> Prepared: 2016-04-26, Analyzed: 2016-04-27									
Mercury, dissolved	< 0.00002	0.00002 mg/L							
<b>Blank (B6D1467-BLK2)</b> Prepared: 2016-04-26, Analyzed: 2016-04-27									
Mercury, dissolved	< 0.00002	0.00002 mg/L							
<b>Reference (B6D1467-SRM1)</b> Prepared: 2016-04-26, Analyzed: 2016-04-27									
Mercury, dissolved	0.00379	0.00002 mg/L	0.00456		83	50-150			
<b>Reference (B6D1467-SRM2)</b> Prepared: 2016-04-26, Analyzed: 2016-04-27									
Mercury, dissolved	0.00368	0.00002 mg/L	0.00456		81	50-150			

**Dissolved Metals, Batch B6D1587**

<b>Blank (B6D1587-BLK1)</b> Prepared: 2016-04-28, Analyzed: 2016-04-28									
Aluminum, dissolved	< 0.05	0.05 mg/L							
Antimony, dissolved	< 0.001	0.001 mg/L							
Arsenic, dissolved	< 0.005	0.005 mg/L							
Barium, dissolved	< 0.05	0.05 mg/L							
Beryllium, dissolved	< 0.001	0.001 mg/L							
Bismuth, dissolved	< 0.001	0.001 mg/L							
Boron, dissolved	< 0.04	0.04 mg/L							
Cadmium, dissolved	< 0.0001	0.0001 mg/L							
Calcium, dissolved	< 2.0	2.0 mg/L							
Chromium, dissolved	< 0.005	0.005 mg/L							
Cobalt, dissolved	< 0.0005	0.0005 mg/L							
Copper, dissolved	< 0.002	0.002 mg/L							
Iron, dissolved	< 0.10	0.10 mg/L							
Lead, dissolved	< 0.001	0.001 mg/L							
Lithium, dissolved	< 0.001	0.001 mg/L							
Magnesium, dissolved	< 0.1	0.1 mg/L							
Manganese, dissolved	< 0.002	0.002 mg/L							
Molybdenum, dissolved	< 0.001	0.001 mg/L							

**APPENDIX 1: QUALITY CONTROL DATA**

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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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**Dissolved Metals, Batch B6D1587, Continued**

**Blank (B6D1587-BLK1), Continued**

Prepared: 2016-04-28, Analyzed: 2016-04-28

Nickel, dissolved	< 0.002	0.002 mg/L							
Phosphorus, dissolved	< 0.2	0.2 mg/L							
Potassium, dissolved	< 0.2	0.2 mg/L							
Selenium, dissolved	< 0.005	0.005 mg/L							
Silicon, dissolved	< 5	5 mg/L							
Silver, dissolved	< 0.0005	0.0005 mg/L							
Sodium, dissolved	< 0.2	0.2 mg/L							
Strontium, dissolved	< 0.01	0.01 mg/L							
Sulfur, dissolved	< 10	10 mg/L							
Tellurium, dissolved	< 0.002	0.002 mg/L							
Thallium, dissolved	< 0.0002	0.0002 mg/L							
Thorium, dissolved	< 0.001	0.001 mg/L							
Tin, dissolved	< 0.002	0.002 mg/L							
Titanium, dissolved	< 0.05	0.05 mg/L							
Uranium, dissolved	< 0.0002	0.0002 mg/L							
Vanadium, dissolved	< 0.01	0.01 mg/L							
Zinc, dissolved	< 0.04	0.04 mg/L							
Zirconium, dissolved	< 0.001	0.001 mg/L							

**Duplicate (B6D1587-DUP1)**

Source: 6041666-01

Prepared: 2016-04-28, Analyzed: 2016-04-28

Aluminum, dissolved	< 0.05	0.05 mg/L		< 0.05					16
Antimony, dissolved	< 0.001	0.001 mg/L		< 0.001					21
Arsenic, dissolved	< 0.005	0.005 mg/L		< 0.005					10
Barium, dissolved	< 0.05	0.05 mg/L		< 0.05					6
Beryllium, dissolved	< 0.001	0.001 mg/L		< 0.001					20
Bismuth, dissolved	< 0.001	0.001 mg/L		< 0.001					20
Boron, dissolved	< 0.04	0.04 mg/L		< 0.04					13
Cadmium, dissolved	< 0.0001	0.0001 mg/L		< 0.0001					24
Calcium, dissolved	8.9	2.0 mg/L		8.9					10
Chromium, dissolved	< 0.005	0.005 mg/L		< 0.005					7
Cobalt, dissolved	< 0.0005	0.0005 mg/L		< 0.0005					12
Copper, dissolved	0.004	0.002 mg/L		0.003					20
Iron, dissolved	< 0.10	0.10 mg/L		< 0.10					10
Lead, dissolved	0.002	0.001 mg/L		< 0.001					14
Lithium, dissolved	0.001	0.001 mg/L		0.001					15
Magnesium, dissolved	1.5	0.1 mg/L		1.5			1		9
Manganese, dissolved	0.011	0.002 mg/L		0.010			9		10
Molybdenum, dissolved	< 0.001	0.001 mg/L		< 0.001					16
Nickel, dissolved	< 0.002	0.002 mg/L		< 0.002					14
Phosphorus, dissolved	< 0.2	0.2 mg/L		< 0.2					23
Potassium, dissolved	0.2	0.2 mg/L		0.2					17
Selenium, dissolved	< 0.005	0.005 mg/L		< 0.005					23
Silicon, dissolved	< 5	5 mg/L		< 5					10
Silver, dissolved	< 0.0005	0.0005 mg/L		< 0.0005					20
Sodium, dissolved	7.2	0.2 mg/L		7.2			< 1		9
Strontium, dissolved	0.06	0.01 mg/L		0.06			< 1		9
Sulfur, dissolved	< 10	10 mg/L		< 10					27
Tellurium, dissolved	< 0.002	0.002 mg/L		< 0.002					20
Thallium, dissolved	< 0.0002	0.0002 mg/L		< 0.0002					12
Thorium, dissolved	< 0.001	0.001 mg/L		< 0.001					20
Tin, dissolved	0.006	0.002 mg/L		< 0.002					20
Titanium, dissolved	< 0.05	0.05 mg/L		< 0.05					20
Uranium, dissolved	< 0.0002	0.0002 mg/L		< 0.0002					11
Vanadium, dissolved	< 0.01	0.01 mg/L		< 0.01					14
Zinc, dissolved	< 0.04	0.04 mg/L		< 0.04					11
Zirconium, dissolved	< 0.001	0.001 mg/L		< 0.001					20

## APPENDIX 1: QUALITY CONTROL DATA

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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>Dissolved Metals, Batch B6D1587, Continued</b>									
<b>Reference (B6D1587-SRM1)</b>					Prepared: 2016-04-28, Analyzed: 2016-04-28				
Aluminum, dissolved	0.26	0.05 mg/L	0.233		110	58-142			
Antimony, dissolved	0.050	0.001 mg/L	0.0430		115	75-125			
Arsenic, dissolved	0.506	0.005 mg/L	0.438		116	81-119			
Barium, dissolved	3.64	0.05 mg/L	3.35		109	83-117			
Beryllium, dissolved	0.201	0.001 mg/L	0.213		95	80-120			
Boron, dissolved	1.54	0.04 mg/L	1.74		89	74-117			
Cadmium, dissolved	0.241	0.0001 mg/L	0.224		108	83-117			
Calcium, dissolved	7.8	2.0 mg/L	7.69		102	76-124			
Chromium, dissolved	0.469	0.005 mg/L	0.437		107	81-119			
Cobalt, dissolved	0.140	0.0005 mg/L	0.128		109	76-124			
Copper, dissolved	0.965	0.002 mg/L	0.844		114	84-116			
Iron, dissolved	1.32	0.10 mg/L	1.29		102	74-126			
Lead, dissolved	0.119	0.001 mg/L	0.112		106	72-128			
Lithium, dissolved	0.092	0.001 mg/L	0.104		88	60-140			
Magnesium, dissolved	6.9	0.1 mg/L	6.92		99	81-119			
Manganese, dissolved	0.376	0.002 mg/L	0.345		109	84-116			
Molybdenum, dissolved	0.428	0.001 mg/L	0.426		100	83-117			
Nickel, dissolved	0.914	0.002 mg/L	0.840		109	74-126			
Phosphorus, dissolved	0.6	0.2 mg/L	0.495		123	68-132			
Potassium, dissolved	3.1	0.2 mg/L	3.19		98	74-126			
Selenium, dissolved	0.038	0.005 mg/L	0.0331		114	70-130			
Sodium, dissolved	18.7	0.2 mg/L	19.1		98	72-128			
Strontium, dissolved	0.99	0.01 mg/L	0.916		108	84-113			
Thallium, dissolved	0.0412	0.0002 mg/L	0.0393		105	57-143			
Uranium, dissolved	0.266	0.0002 mg/L	0.266		100	85-115			
Vanadium, dissolved	0.92	0.01 mg/L	0.869		106	87-113			
Zinc, dissolved	0.99	0.04 mg/L	0.881		112	72-128			

**General Parameters, Batch B6D1382**

<b>Blank (B6D1382-BLK1)</b>					Prepared: 2016-04-25, Analyzed: 2016-04-25				
Colour, True	< 5	5 CU							
<b>LCS (B6D1382-BS1)</b>					Prepared: 2016-04-25, Analyzed: 2016-04-25				
Colour, True	10	5 CU	10.0		102	85-115			
<b>Duplicate (B6D1382-DUP1)</b>					Source: 6041666-01 Prepared: 2016-04-25, Analyzed: 2016-04-25				
Colour, True	< 5	5 CU		< 5				5	

**General Parameters, Batch B6D1384**

<b>Blank (B6D1384-BLK1)</b>					Prepared: 2016-04-25, Analyzed: 2016-04-25				
UV Transmittance @ 254nm	< 0.1	0.1 % T							
<b>Reference (B6D1384-SRM1)</b>					Prepared: 2016-04-25, Analyzed: 2016-04-25				
UV Transmittance @ 254nm	47.8	0.1 % T	46.4		103	90-110			

**General Parameters, Batch B6D1385**

<b>Blank (B6D1385-BLK1)</b>					Prepared: 2016-04-25, Analyzed: 2016-04-25				
Colour, Apparent	< 5	5 CU							
<b>LCS (B6D1385-BS1)</b>					Prepared: 2016-04-25, Analyzed: 2016-04-25				
Colour, Apparent	10	5 CU	10.0		100	93-111			

**APPENDIX 1: QUALITY CONTROL DATA**

**REPORTED TO PROJECT** Associated Engineering (Burnaby) Ltd.  
NCID

**WORK ORDER REPORTED** 6041666  
2016-05-09

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>General Parameters, Batch B6D1413</b>									
<b>Blank (B6D1413-BLK1)</b>			Prepared: 2016-04-26, Analyzed: 2016-04-26						
Carbon, Total Organic	< 0.5	0.5 mg/L							
Carbon, Dissolved Organic	< 0.5	0.5 mg/L							
<b>LCS (B6D1413-BS1)</b>			Prepared: 2016-04-26, Analyzed: 2016-04-26						
Carbon, Total Organic	9.2	0.5 mg/L	10.0		92	78-116			
Carbon, Dissolved Organic	9.0	0.5 mg/L	10.0		90	80-120			
<b>Duplicate (B6D1413-DUP1)</b>			<b>Source: 6041666-01</b>		Prepared: 2016-04-26, Analyzed: 2016-04-26				
Carbon, Total Organic	< 0.5	0.5 mg/L		< 0.5				16	
Carbon, Dissolved Organic	< 0.5	0.5 mg/L		< 0.5				15	
<b>General Parameters, Batch B6D1488</b>									
<b>Blank (B6D1488-BLK1)</b>			Prepared: 2016-04-26, Analyzed: 2016-04-26						
Alkalinity, Total (as CaCO3)	< 1	1 mg/L							
<b>Blank (B6D1488-BLK2)</b>			Prepared: 2016-04-26, Analyzed: 2016-04-26						
Alkalinity, Total (as CaCO3)	< 1	1 mg/L							
<b>LCS (B6D1488-BS1)</b>			Prepared: 2016-04-26, Analyzed: 2016-04-26						
Alkalinity, Total (as CaCO3)	102	1 mg/L	100		102	96-108			
<b>LCS (B6D1488-BS2)</b>			Prepared: 2016-04-26, Analyzed: 2016-04-26						
Alkalinity, Total (as CaCO3)	99	1 mg/L	100		99	96-108			
<b>Reference (B6D1488-SRM1)</b>			Prepared: 2016-04-26, Analyzed: 2016-04-26						
pH	6.97	0.01 pH units	7.00		100	98-102			
<b>Reference (B6D1488-SRM2)</b>			Prepared: 2016-04-26, Analyzed: 2016-04-26						
pH	6.96	0.01 pH units	7.00		99	98-102			
<b>General Parameters, Batch B6D1495</b>									
<b>Blank (B6D1495-BLK1)</b>			Prepared: 2016-04-26, Analyzed: 2016-04-26						
Solids, Total Dissolved	< 10	10 mg/L							
<b>Reference (B6D1495-SRM1)</b>			Prepared: 2016-04-26, Analyzed: 2016-04-26						
Solids, Total Dissolved	208	10 mg/L	240		87	85-115			
<b>General Parameters, Batch B6D1527</b>									
<b>Reference (B6D1527-SRM1)</b>			Prepared: 2016-04-27, Analyzed: 2016-04-27						
pH	6.96	0.01 pH units	7.00		99	98-102			
<b>Haloacetic Acids, Batch B6E0248</b>									
<b>Blank (B6E0248-BLK1)</b>			Prepared: 2016-05-05, Analyzed: 2016-05-06						
Monochloroacetic Acid	< 0.002	0.002 mg/L							
Monobromoacetic Acid	< 0.002	0.002 mg/L							
Dichloroacetic Acid	< 0.002	0.002 mg/L							
Trichloroacetic Acid	< 0.002	0.002 mg/L							
Dibromoacetic Acid	< 0.002	0.002 mg/L							
Surrogate: 2-Bromopropionic Acid	0.0141	mg/L	0.0116		122	87-159			
<b>LCS (B6E0248-BS1)</b>			Prepared: 2016-05-05, Analyzed: 2016-05-06						
Monochloroacetic Acid	0.029	0.002 mg/L	0.0539		54	41-72			



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**WORK ORDER REPORTED** 6041666  
2016-05-09

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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**Haloacetic Acids, Batch B6E0248, Continued**

<b>LCS (B6E0248-BS1), Continued</b>			Prepared: 2016-05-05, Analyzed: 2016-05-06						
Monobromoacetic Acid	0.025	0.002 mg/L	0.0364		70	58-84			
Dichloroacetic Acid	0.084	0.002 mg/L	0.0534		157	95-151			SPK
Trichloroacetic Acid	0.024	0.002 mg/L	0.0182		132	90-151			
Dibromoacetic Acid	0.036	0.002 mg/L	0.0190		190	78-155			SPK
Surrogate: 2-Bromopropionic Acid	0.0180	mg/L	0.0116		155	87-159			
<b>Duplicate (B6E0248-DUP1)</b>			<b>Source: 6041666-04</b>		Prepared: 2016-05-05, Analyzed: 2016-05-06				
Monochloroacetic Acid	< 0.002	0.002 mg/L		< 0.002					23
Monobromoacetic Acid	0.002	0.002 mg/L		0.002					13
Dichloroacetic Acid	0.125	0.002 mg/L		0.067			61		19
Trichloroacetic Acid	0.006	0.002 mg/L		0.005					19
Dibromoacetic Acid	0.003	0.002 mg/L		0.002					20
Surrogate: 2-Bromopropionic Acid	0.0180	mg/L	0.0116		155	87-159			

**Total Recoverable Metals, Batch B6D1468**

<b>Blank (B6D1468-BLK1)</b>			Prepared: 2016-04-26, Analyzed: 2016-04-26						
Mercury, total	< 0.00002	0.00002 mg/L							
<b>Blank (B6D1468-BLK2)</b>			Prepared: 2016-04-26, Analyzed: 2016-04-26						
Mercury, total	< 0.00002	0.00002 mg/L							
<b>Reference (B6D1468-SRM1)</b>			Prepared: 2016-04-26, Analyzed: 2016-04-26						
Mercury, total	0.00358	0.00002 mg/L	0.00456		79	50-150			
<b>Reference (B6D1468-SRM2)</b>			Prepared: 2016-04-26, Analyzed: 2016-04-26						
Mercury, total	0.00334	0.00002 mg/L	0.00456		73	50-150			

**Total Recoverable Metals, Batch B6D1578**

<b>Blank (B6D1578-BLK1)</b>			Prepared: 2016-04-28, Analyzed: 2016-04-28						
Aluminum, total	< 0.05	0.05 mg/L							
Antimony, total	< 0.001	0.001 mg/L							
Arsenic, total	< 0.005	0.005 mg/L							
Barium, total	< 0.05	0.05 mg/L							
Beryllium, total	< 0.001	0.001 mg/L							
Bismuth, total	< 0.001	0.001 mg/L							
Boron, total	< 0.04	0.04 mg/L							
Cadmium, total	< 0.0001	0.0001 mg/L							
Calcium, total	< 2.0	2.0 mg/L							
Chromium, total	< 0.005	0.005 mg/L							
Cobalt, total	< 0.0005	0.0005 mg/L							
Copper, total	< 0.002	0.002 mg/L							
Iron, total	< 0.10	0.10 mg/L							
Lead, total	< 0.001	0.001 mg/L							
Lithium, total	< 0.001	0.001 mg/L							
Magnesium, total	< 0.1	0.1 mg/L							
Manganese, total	< 0.002	0.002 mg/L							
Molybdenum, total	< 0.001	0.001 mg/L							
Nickel, total	< 0.002	0.002 mg/L							
Phosphorus, total	< 0.2	0.2 mg/L							
Potassium, total	< 0.2	0.2 mg/L							
Selenium, total	< 0.005	0.005 mg/L							
Silicon, total	< 5	5 mg/L							
Silver, total	< 0.0005	0.0005 mg/L							
Sodium, total	< 0.2	0.2 mg/L							

**APPENDIX 1: QUALITY CONTROL DATA**

**REPORTED TO PROJECT** Associated Engineering (Burnaby) Ltd.  
NCID

**WORK ORDER REPORTED** 6041666  
2016-05-09

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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**Total Recoverable Metals, Batch B6D1578, Continued**

**Blank (B6D1578-BLK1), Continued**

Prepared: 2016-04-28, Analyzed: 2016-04-28

Strontium, total	< 0.01	0.01 mg/L							
Sulfur, total	< 10	10 mg/L							
Tellurium, total	< 0.002	0.002 mg/L							
Thallium, total	< 0.0002	0.0002 mg/L							
Thorium, total	< 0.001	0.001 mg/L							
Tin, total	< 0.002	0.002 mg/L							
Titanium, total	< 0.05	0.05 mg/L							
Uranium, total	< 0.0002	0.0002 mg/L							
Vanadium, total	< 0.01	0.01 mg/L							
Zinc, total	< 0.04	0.04 mg/L							
Zirconium, total	< 0.001	0.001 mg/L							

**Reference (B6D1578-SRM1)**

Prepared: 2016-04-28, Analyzed: 2016-04-28

Aluminum, total	0.35	0.05 mg/L	0.296		119	81-129			
Antimony, total	0.050	0.001 mg/L	0.0505		99	88-114			
Arsenic, total	0.127	0.005 mg/L	0.122		104	88-114			
Barium, total	0.70	0.05 mg/L	0.777		90	72-104			
Beryllium, total	0.043	0.001 mg/L	0.0488		89	76-131			
Boron, total	2.73	0.04 mg/L	3.40		80	75-121			
Cadmium, total	0.0489	0.0001 mg/L	0.0490		100	89-111			
Calcium, total	9.6	2.0 mg/L	10.2		94	86-121			
Chromium, total	0.240	0.005 mg/L	0.242		99	89-114			
Cobalt, total	0.0381	0.0005 mg/L	0.0366		104	91-113			
Copper, total	0.509	0.002 mg/L	0.487		105	91-115			
Iron, total	0.45	0.10 mg/L	0.469		95	77-124			
Lead, total	0.197	0.001 mg/L	0.193		102	92-113			
Lithium, total	0.341	0.001 mg/L	0.390		87	85-115			
Magnesium, total	3.1	0.1 mg/L	3.31		94	78-120			
Manganese, total	0.107	0.002 mg/L	0.109		98	90-114			
Molybdenum, total	0.180	0.001 mg/L	0.197		92	90-111			
Nickel, total	0.241	0.002 mg/L	0.242		99	90-111			
Phosphorus, total	0.2	0.2 mg/L	0.233		98	85-115			
Potassium, total	6.0	0.2 mg/L	5.93		101	84-113			
Selenium, total	0.122	0.005 mg/L	0.115		106	85-115			
Sodium, total	6.9	0.2 mg/L	7.64		91	82-123			
Strontium, total	0.37	0.01 mg/L	0.363		101	88-112			
Thallium, total	0.0801	0.0002 mg/L	0.0794		101	91-114			
Uranium, total	0.0182	0.0002 mg/L	0.0192		95	85-120			
Vanadium, total	0.36	0.01 mg/L	0.376		97	86-111			
Zinc, total	2.43	0.04 mg/L	2.42		100	85-111			

**Volatile Organic Compounds (VOC), Batch B6E0198**

**Blank (B6E0198-BLK1)**

Prepared: 2016-05-04, Analyzed: 2016-05-04

Bromodichloromethane	< 0.001	0.001 mg/L							
Bromoform	< 0.001	0.001 mg/L							
Chloroform	< 0.001	0.001 mg/L							
Dibromochloromethane	< 0.001	0.001 mg/L							
Surrogate: Toluene-d8	0.0221	mg/L	0.0250		88	70-130			
Surrogate: 4-Bromofluorobenzene	0.0222	mg/L	0.0250		89	70-130			

**LCS (B6E0198-BS1)**

Prepared: 2016-05-04, Analyzed: 2016-05-04

Bromodichloromethane	0.020	0.001 mg/L	0.0200		99	70-130			
Bromoform	0.020	0.001 mg/L	0.0200		102	70-130			
Chloroform	0.021	0.001 mg/L	0.0200		107	70-130			
Dibromochloromethane	0.019	0.001 mg/L	0.0200		94	70-130			

**APPENDIX 1: QUALITY CONTROL DATA**

**REPORTED TO PROJECT** Associated Engineering (Burnaby) Ltd.  
NCID

**WORK ORDER REPORTED** 6041666  
2016-05-09

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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*Volatile Organic Compounds (VOC), Batch B6E0198, Continued*

**LCS (B6E0198-BS1), Continued**

Prepared: 2016-05-04, Analyzed: 2016-05-04

Surrogate: Toluene-d8	0.0221	mg/L	0.0250		88	70-130			
Surrogate: 4-Bromofluorobenzene	0.0237	mg/L	0.0250		95	70-130			

**QC Qualifiers:**

RPD Relative percent difference (RPD) of duplicate analysis are outside of control limits for unknown reason(s).  
SPK The recovery of this analyte was outside of established control limits.

**REPORTED TO** Associated Engineering (Burnaby) Ltd.  
300 - 4940 Canada Way  
Burnaby, BC V5G 4M5

**TEL** (604) 293-1411  
**FAX** (604) 291-6163

**ATTENTION** Sabrina Diemert

**WORK ORDER** 6041667

**PO NUMBER**

**RECEIVED / TEMP** 2016-04-22 16:25 / 8°C

**PROJECT** NCID

**REPORTED** 2016-05-09

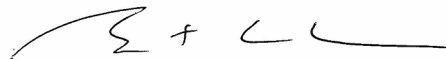
**PROJECT INFO**

**COC NUMBER** B 42163

**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:

**Brent Coates, B.Sc.**  
Division Manager, Richmond

***If you have any questions or concerns, please contact your Account Manager:  
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**REPORTED TO PROJECT** Associated Engineering (Burnaby) Ltd.  
NCID

**WORK ORDER REPORTED** 6041667  
2016-05-09

Analysis Description	Method Reference	Technique	Location
Alkalinity, Total in Water	APHA 2320 B*	Titration with H2SO4	Kelowna
Carbon, Dissolved Organic in Water	APHA 5310 B	High Temperature Combustion, Infrared CO2 Detection	Kelowna
Carbon, Total Organic in Water	APHA 5310 B	High Temperature Combustion, Infrared CO2 Detection	Kelowna
Chlorine Demand, Free in Water	APHA 5710 B	Chlorination, 7-day Incubation	N/A
Colour, Apparent in Water	APHA 2120 B	Visual Comparison	Kelowna
Colour, True in Water	APHA 2120 C	Spectrophotometry (456 nm)	Kelowna
Dissolved Metals in Water	APHA 3030 B / APHA 3125 B	0.45 µm Filtration / Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	Richmond
Free Chlorine, Final Dose in Water	APHA 4500-Cl G	Colorimetry (DPD)	Kelowna
Free Chlorine, Initial Dose in Water	APHA 4500-Cl G	Colorimetry (DPD)	Kelowna
Haloacetic Acids in Water	EPA 552.3	Liquid-Liquid Microextraction, Derivatization and GC-ECD	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
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
Solids, Total Dissolved in Water	APHA 2540 C*	Gravimetry (Dried at 103-105C)	Kelowna
THMFP Incubation Temperature in Water	APHA 5710 B	Chlorination, 7-day Incubation	Kelowna
THMFP Incubation Time in Water	APHA 5710 B	Chlorination, 7-day Incubation	Kelowna
Total Recoverable Metals in Water	APHA 3030E* / APHA 3125 B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	Richmond
Total Trihalomethanes (as CHCl3) in Water	APHA 5710 B	Chlorination, 7-day Incubation	N/A
Transmissivity at 254 nm in Water	APHA 5910 B	Ultraviolet Absorption	Kelowna
Trihalomethanes in Water	EPA 5030B / APHA 6200 B	Purge&Trap / Purge and Trap Capillary Column GC-MSD	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  
 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  
 % T Percent Transmittance  
 °C Degrees Celcius  
 CU Colour Units (referenced against a platinum cobalt standard)  
 mg/L Milligrams per litre  
 pH units pH < 7 = acidic, pH > 7 = basic

**REPORTED TO PROJECT** Associated Engineering (Burnaby) Ltd.  
NCID

**WORK ORDER REPORTED** 6041667  
2016-05-09

Analyte	Result / Recovery	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: Well #3 Treated (6041667-01) [Water] Sampled: 2016-04-21 19:40**

**General Parameters**

Alkalinity, Total (as CaCO3)	23	1	mg/L	N/A	2016-04-26	
Carbon, Total Organic	< 0.5	0.5	mg/L	N/A	2016-04-26	
Carbon, Dissolved Organic	< 0.5	0.5	mg/L	2016-04-22	2016-04-26	
Colour, Apparent	< 5	5	CU	N/A	2016-04-25	HT1
Colour, True	< 5	5	CU	N/A	2016-04-25	HT1
pH	7.48	0.01	pH units	N/A	2016-04-26	HT2
Solids, Total Dissolved	48	10	mg/L	N/A	2016-04-26	
UV Transmittance @ 254nm	99.3	0.1	% T	N/A	2016-04-25	HT1

**Calculated Parameters**

Hardness, Total (as CaCO3)	21.9	5.0	mg/L	N/A	N/A	
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**Dissolved Metals**

Aluminum, dissolved	< 0.05	0.05	mg/L	N/A	2016-04-28	
Antimony, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Arsenic, dissolved	< 0.005	0.005	mg/L	N/A	2016-04-28	
Barium, dissolved	< 0.05	0.05	mg/L	N/A	2016-04-28	
Beryllium, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Bismuth, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Boron, dissolved	< 0.04	0.04	mg/L	N/A	2016-04-28	
Cadmium, dissolved	< 0.0001	0.0001	mg/L	N/A	2016-04-28	
Calcium, dissolved	7.2	2.0	mg/L	N/A	2016-04-28	
Chromium, dissolved	< 0.005	0.005	mg/L	N/A	2016-04-28	
Cobalt, dissolved	< 0.0005	0.0005	mg/L	N/A	2016-04-28	
Copper, dissolved	0.004	0.002	mg/L	N/A	2016-04-28	
Iron, dissolved	< 0.10	0.10	mg/L	N/A	2016-04-28	
Lead, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Lithium, dissolved	0.002	0.001	mg/L	N/A	2016-04-28	
Magnesium, dissolved	1.0	0.1	mg/L	N/A	2016-04-28	
Manganese, dissolved	< 0.002	0.002	mg/L	N/A	2016-04-28	
Mercury, dissolved	< 0.00002	0.00002	mg/L	2016-04-26	2016-04-27	
Molybdenum, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Nickel, dissolved	< 0.002	0.002	mg/L	N/A	2016-04-28	
Phosphorus, dissolved	< 0.2	0.2	mg/L	N/A	2016-04-28	
Potassium, dissolved	< 0.2	0.2	mg/L	N/A	2016-04-28	
Selenium, dissolved	< 0.005	0.005	mg/L	N/A	2016-04-28	
Silicon, dissolved	< 5	5	mg/L	N/A	2016-04-28	
Silver, dissolved	< 0.0005	0.0005	mg/L	N/A	2016-04-28	
Sodium, dissolved	10.7	0.2	mg/L	N/A	2016-04-28	
Strontium, dissolved	0.06	0.01	mg/L	N/A	2016-04-28	
Sulfur, dissolved	< 10	10	mg/L	N/A	2016-04-28	
Tellurium, dissolved	< 0.002	0.002	mg/L	N/A	2016-04-28	
Thallium, dissolved	< 0.0002	0.0002	mg/L	N/A	2016-04-28	
Thorium, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Tin, dissolved	< 0.002	0.002	mg/L	N/A	2016-04-28	
Titanium, dissolved	< 0.05	0.05	mg/L	N/A	2016-04-28	

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Analyte	Result / Recovery	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: Well #3 Treated (6041667-01) [Water] Sampled: 2016-04-21 19:40, Continued**

***Dissolved Metals, Continued***

Uranium, dissolved	< 0.0002	0.0002	mg/L	N/A	2016-04-28	
Vanadium, dissolved	< 0.01	0.01	mg/L	N/A	2016-04-28	
Zinc, dissolved	< 0.04	0.04	mg/L	N/A	2016-04-28	
Zirconium, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	

***Total Recoverable Metals***

Aluminum, total	<b>0.83</b>	0.05	mg/L	2016-04-28	2016-04-28	
Antimony, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Arsenic, total	< 0.005	0.005	mg/L	2016-04-28	2016-04-28	
Barium, total	< 0.05	0.05	mg/L	2016-04-28	2016-04-28	
Beryllium, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Bismuth, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Boron, total	< 0.04	0.04	mg/L	2016-04-28	2016-04-28	
Cadmium, total	< 0.0001	0.0001	mg/L	2016-04-28	2016-04-28	
Calcium, total	<b>8.3</b>	2.0	mg/L	2016-04-28	2016-04-28	
Chromium, total	< 0.005	0.005	mg/L	2016-04-28	2016-04-28	
Cobalt, total	< 0.0005	0.0005	mg/L	2016-04-28	2016-04-28	
Copper, total	<b>0.012</b>	0.002	mg/L	2016-04-28	2016-04-28	
Iron, total	< 0.10	0.10	mg/L	2016-04-28	2016-04-28	
Lead, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Lithium, total	<b>0.002</b>	0.001	mg/L	2016-04-28	2016-04-28	
Magnesium, total	<b>1.0</b>	0.1	mg/L	2016-04-28	2016-04-28	
Manganese, total	< 0.002	0.002	mg/L	2016-04-28	2016-04-28	
Mercury, total	< 0.00002	0.00002	mg/L	2016-04-26	2016-04-26	
Molybdenum, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Nickel, total	< 0.002	0.002	mg/L	2016-04-28	2016-04-28	
Phosphorus, total	< 0.2	0.2	mg/L	2016-04-28	2016-04-28	
Potassium, total	<b>0.5</b>	0.2	mg/L	2016-04-28	2016-04-28	
Selenium, total	< 0.005	0.005	mg/L	2016-04-28	2016-04-28	
Silicon, total	< 5	5	mg/L	2016-04-28	2016-04-28	
Silver, total	< 0.0005	0.0005	mg/L	2016-04-28	2016-04-28	
Sodium, total	<b>11.8</b>	0.2	mg/L	2016-04-28	2016-04-28	
Strontium, total	<b>0.06</b>	0.01	mg/L	2016-04-28	2016-04-28	
Sulfur, total	< 10	10	mg/L	2016-04-28	2016-04-28	
Tellurium, total	< 0.002	0.002	mg/L	2016-04-28	2016-04-28	
Thallium, total	< 0.0002	0.0002	mg/L	2016-04-28	2016-04-28	
Thorium, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Tin, total	< 0.002	0.002	mg/L	2016-04-28	2016-04-28	
Titanium, total	< 0.05	0.05	mg/L	2016-04-28	2016-04-28	
Uranium, total	< 0.0002	0.0002	mg/L	2016-04-28	2016-04-28	
Vanadium, total	< 0.01	0.01	mg/L	2016-04-28	2016-04-28	
Zinc, total	< 0.04	0.04	mg/L	2016-04-28	2016-04-28	
Zirconium, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	

**Sample ID: Well #3 Treated (6041667-02) [Water] Sampled: 2016-04-21 19:40 To 2016-05-02 11:30**



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Analyte	Result / Recovery	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: Well #3 Treated (6041667-02) [Water] Sampled: 2016-04-21 19:40 To 2016-05-02 11:30, Continued**

<b>General Parameters</b>						
pH	7.15	0.01	pH units	N/A	2016-04-27	HT2
<b>Haloacetic Acids</b>						
Monochloroacetic Acid	< 0.002	0.002	mg/L	2016-05-05	2016-05-06	
Monobromoacetic Acid	< 0.002	0.002	mg/L	2016-05-05	2016-05-06	
Dichloroacetic Acid	<b>0.034</b>	0.002	mg/L	2016-05-05	2016-05-06	
Trichloroacetic Acid	<b>0.007</b>	0.002	mg/L	2016-05-05	2016-05-06	
Dibromoacetic Acid	< 0.002	0.002	mg/L	2016-05-05	2016-05-06	
Surrogate: 2-Bromopropionic Acid	135	87-159	%	2016-05-05	2016-05-06	
<b>THM Formation Potential / Chlorine Demand</b>						
Incubation Time	7.0		Days	2016-04-25	2016-05-02	
Incubation Temperature	20	1	°C	2016-04-25	2016-05-02	
Total Haloacetic Acids (HAA5)	0.04	0.002	mg/L	N/A	N/A	
Free Chlorine, Initial Dose	5.25	0.05	mg/L	2016-04-25	2016-05-02	
Free Chlorine, Final	4.20	0.05	mg/L	2016-04-25	2016-05-02	
Chlorine Demand, Free	1.05	0.05	mg/L	N/A	N/A	
Total Trihalomethanes	0.02	0.001	mg/L	N/A	N/A	
Total Trihalomethanes (as CHCl3)	0.01	0.001	mg/L	N/A	N/A	
<b>Volatile Organic Compounds (VOC)</b>						
Bromodichloromethane	0.004	0.001	mg/L	N/A	2016-05-05	
Bromoform	< 0.001	0.001	mg/L	N/A	2016-05-05	
Chloroform	0.011	0.001	mg/L	N/A	2016-05-05	
Dibromochloromethane	< 0.001	0.001	mg/L	N/A	2016-05-05	
Surrogate: Toluene-d8	97	70-130	%	N/A	2016-05-05	
Surrogate: 4-Bromofluorobenzene	99	70-130	%	N/A	2016-05-05	

**Sample ID: Well #6 Raw (6041667-03) [Water] Sampled: 2016-04-22 00:00**

<b>General Parameters</b>						
Alkalinity, Total (as CaCO3)	24	1	mg/L	N/A	2016-04-26	
Carbon, Total Organic	< 0.5	0.5	mg/L	N/A	2016-04-26	
Carbon, Dissolved Organic	< 0.5	0.5	mg/L	2016-04-25	2016-04-26	
Colour, Apparent	< 5	5	CU	N/A	2016-04-25	
Colour, True	< 5	5	CU	N/A	2016-04-25	
pH	7.45	0.01	pH units	N/A	2016-04-26	HT2
Solids, Total Dissolved	39	10	mg/L	N/A	2016-04-26	
UV Transmittance @ 254nm	99.4	0.1	% T	N/A	2016-04-25	
<b>Calculated Parameters</b>						
Hardness, Total (as CaCO3)	20.3	5.0	mg/L	N/A	N/A	
<b>Dissolved Metals</b>						
Aluminum, dissolved	< 0.05	0.05	mg/L	N/A	2016-04-28	
Antimony, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Arsenic, dissolved	< 0.005	0.005	mg/L	N/A	2016-04-28	

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Analyte	Result / Recovery	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: Well #6 Raw (6041667-03) [Water] Sampled: 2016-04-22 00:00, Continued**

***Dissolved Metals, Continued***

Barium, dissolved	< 0.05	0.05	mg/L	N/A	2016-04-28	
Beryllium, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Bismuth, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Boron, dissolved	< 0.04	0.04	mg/L	N/A	2016-04-28	
Cadmium, dissolved	< 0.0001	0.0001	mg/L	N/A	2016-04-28	
Calcium, dissolved	<b>6.7</b>	2.0	mg/L	N/A	2016-04-28	
Chromium, dissolved	< 0.005	0.005	mg/L	N/A	2016-04-28	
Cobalt, dissolved	< 0.0005	0.0005	mg/L	N/A	2016-04-28	
Copper, dissolved	<b>0.007</b>	0.002	mg/L	N/A	2016-04-28	
Iron, dissolved	< 0.10	0.10	mg/L	N/A	2016-04-28	
Lead, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Lithium, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Magnesium, dissolved	<b>0.9</b>	0.1	mg/L	N/A	2016-04-28	
Manganese, dissolved	< 0.002	0.002	mg/L	N/A	2016-04-28	
Mercury, dissolved	< 0.00002	0.00002	mg/L	2016-04-26	2016-04-27	
Molybdenum, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Nickel, dissolved	< 0.002	0.002	mg/L	N/A	2016-04-28	
Phosphorus, dissolved	< 0.2	0.2	mg/L	N/A	2016-04-28	
Potassium, dissolved	< 0.2	0.2	mg/L	N/A	2016-04-28	
Selenium, dissolved	< 0.005	0.005	mg/L	N/A	2016-04-28	
Silicon, dissolved	< 5	5	mg/L	N/A	2016-04-28	
Silver, dissolved	< 0.0005	0.0005	mg/L	N/A	2016-04-28	
Sodium, dissolved	<b>3.5</b>	0.2	mg/L	N/A	2016-04-28	
Strontium, dissolved	<b>0.03</b>	0.01	mg/L	N/A	2016-04-28	
Sulfur, dissolved	< 10	10	mg/L	N/A	2016-04-28	
Tellurium, dissolved	< 0.002	0.002	mg/L	N/A	2016-04-28	
Thallium, dissolved	< 0.0002	0.0002	mg/L	N/A	2016-04-28	
Thorium, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Tin, dissolved	< 0.002	0.002	mg/L	N/A	2016-04-28	
Titanium, dissolved	< 0.05	0.05	mg/L	N/A	2016-04-28	
Uranium, dissolved	< 0.0002	0.0002	mg/L	N/A	2016-04-28	
Vanadium, dissolved	< 0.01	0.01	mg/L	N/A	2016-04-28	
Zinc, dissolved	< 0.04	0.04	mg/L	N/A	2016-04-28	
Zirconium, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	

***Total Recoverable Metals***

Aluminum, total	< 0.05	0.05	mg/L	2016-04-28	2016-04-28	
Antimony, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Arsenic, total	< 0.005	0.005	mg/L	2016-04-28	2016-04-28	
Barium, total	< 0.05	0.05	mg/L	2016-04-28	2016-04-28	
Beryllium, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Bismuth, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Boron, total	< 0.04	0.04	mg/L	2016-04-28	2016-04-28	
Cadmium, total	< 0.0001	0.0001	mg/L	2016-04-28	2016-04-28	
Calcium, total	<b>7.4</b>	2.0	mg/L	2016-04-28	2016-04-28	
Chromium, total	< 0.005	0.005	mg/L	2016-04-28	2016-04-28	

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Analyte	Result / Recovery	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: Well #6 Raw (6041667-03) [Water] Sampled: 2016-04-22 00:00, Continued**

**Total Recoverable Metals, Continued**

Cobalt, total	< 0.0005	0.0005	mg/L	2016-04-28	2016-04-28	
Copper, total	<b>0.004</b>	0.002	mg/L	2016-04-28	2016-04-28	
Iron, total	< 0.10	0.10	mg/L	2016-04-28	2016-04-28	
Lead, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Lithium, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Magnesium, total	<b>1.0</b>	0.1	mg/L	2016-04-28	2016-04-28	
Manganese, total	< 0.002	0.002	mg/L	2016-04-28	2016-04-28	
Mercury, total	< 0.00002	0.00002	mg/L	2016-04-26	2016-04-26	
Molybdenum, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Nickel, total	< 0.002	0.002	mg/L	2016-04-28	2016-04-28	
Phosphorus, total	<b>0.2</b>	0.2	mg/L	2016-04-28	2016-04-28	
Potassium, total	<b>0.7</b>	0.2	mg/L	2016-04-28	2016-04-28	
Selenium, total	< 0.005	0.005	mg/L	2016-04-28	2016-04-28	
Silicon, total	< 5	5	mg/L	2016-04-28	2016-04-28	
Silver, total	< 0.0005	0.0005	mg/L	2016-04-28	2016-04-28	
Sodium, total	<b>4.0</b>	0.2	mg/L	2016-04-28	2016-04-28	
Strontium, total	<b>0.04</b>	0.01	mg/L	2016-04-28	2016-04-28	
Sulfur, total	< 10	10	mg/L	2016-04-28	2016-04-28	
Tellurium, total	< 0.002	0.002	mg/L	2016-04-28	2016-04-28	
Thallium, total	< 0.0002	0.0002	mg/L	2016-04-28	2016-04-28	
Thorium, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Tin, total	< 0.002	0.002	mg/L	2016-04-28	2016-04-28	
Titanium, total	< 0.05	0.05	mg/L	2016-04-28	2016-04-28	
Uranium, total	< 0.0002	0.0002	mg/L	2016-04-28	2016-04-28	
Vanadium, total	< 0.01	0.01	mg/L	2016-04-28	2016-04-28	
Zinc, total	< 0.04	0.04	mg/L	2016-04-28	2016-04-28	
Zirconium, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	

**Sample ID: Well #6 Raw (6041667-04) [Water] Sampled: 2016-04-22 00:00 To 2016-05-02 11:45**

**General Parameters**

pH	<b>7.08</b>	0.01	pH units	N/A	2016-04-27	HT2
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**Haloacetic Acids**

Monochloroacetic Acid	< 0.002	0.002	mg/L	2016-05-05	2016-05-06	
Monobromoacetic Acid	< 0.002	0.002	mg/L	2016-05-05	2016-05-06	
Dichloroacetic Acid	<b>0.031</b>	0.002	mg/L	2016-05-05	2016-05-06	
Trichloroacetic Acid	<b>0.005</b>	0.002	mg/L	2016-05-05	2016-05-06	
Dibromoacetic Acid	< 0.002	0.002	mg/L	2016-05-05	2016-05-06	
Surrogate: 2-Bromopropionic Acid	128	87-159	%	2016-05-05	2016-05-06	

**THM Formation Potential / Chlorine Demand**

Incubation Time	<b>7.0</b>		Days	2016-04-25	2016-05-02	
Incubation Temperature	<b>20</b>	1	°C	2016-04-25	2016-05-02	
Total Haloacetic Acids (HAA5)	<b>0.04</b>	0.002	mg/L	N/A	N/A	
Free Chlorine, Initial Dose	<b>4.90</b>	0.05	mg/L	2016-04-25	2016-05-02	

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**Sample ID: Well #6 Raw (6041667-04) [Water] Sampled: 2016-04-22 00:00 To 2016-05-02 11:45, Continued**

<i>THM Formation Potential / Chlorine Demand, Continued</i>						
Free Chlorine, Final	4.10	0.05	mg/L	2016-04-25	2016-05-02	
Chlorine Demand, Free	0.80	0.05	mg/L	N/A	N/A	
Total Trihalomethanes	0.008	0.001	mg/L	N/A	N/A	
Total Trihalomethanes (as CHCl <sub>3</sub> )	0.008	0.001	mg/L	N/A	N/A	
<i>Volatile Organic Compounds (VOC)</i>						
Bromodichloromethane	0.002	0.001	mg/L	N/A	2016-05-05	
Bromoform	< 0.001	0.001	mg/L	N/A	2016-05-05	
Chloroform	0.006	0.001	mg/L	N/A	2016-05-05	
Dibromochloromethane	< 0.001	0.001	mg/L	N/A	2016-05-05	
Surrogate: Toluene-d <sub>8</sub>	96	70-130	%	N/A	2016-05-05	
Surrogate: 4-Bromofluorobenzene	97	70-130	%	N/A	2016-05-05	

**Sample ID: Well #6 Treated Alum (6041667-05) [Water] Sampled: 2016-04-22 00:00**

<i>General Parameters</i>						
Alkalinity, Total (as CaCO <sub>3</sub> )	16	1	mg/L	N/A	2016-04-26	
Carbon, Total Organic	< 0.5	0.5	mg/L	N/A	2016-04-26	
Carbon, Dissolved Organic	< 0.5	0.5	mg/L	2016-04-25	2016-04-26	
Colour, Apparent	< 5	5	CU	N/A	2016-04-25	
Colour, True	< 5	5	CU	N/A	2016-04-25	
pH	7.21	0.01	pH units	N/A	2016-04-26	HT2
Solids, Total Dissolved	32	10	mg/L	N/A	2016-04-26	
UV Transmittance @ 254nm	99.7	0.1	% T	N/A	2016-04-25	
<i>Calculated Parameters</i>						
Hardness, Total (as CaCO <sub>3</sub> )	20.7	5.0	mg/L	N/A	N/A	
<i>Dissolved Metals</i>						
Aluminum, dissolved	0.99	0.05	mg/L	N/A	2016-04-28	
Antimony, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Arsenic, dissolved	< 0.005	0.005	mg/L	N/A	2016-04-28	
Barium, dissolved	< 0.05	0.05	mg/L	N/A	2016-04-28	
Beryllium, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Bismuth, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Boron, dissolved	< 0.04	0.04	mg/L	N/A	2016-04-28	
Cadmium, dissolved	< 0.0001	0.0001	mg/L	N/A	2016-04-28	
Calcium, dissolved	6.8	2.0	mg/L	N/A	2016-04-28	
Chromium, dissolved	< 0.005	0.005	mg/L	N/A	2016-04-28	
Cobalt, dissolved	< 0.0005	0.0005	mg/L	N/A	2016-04-28	
Copper, dissolved	0.011	0.002	mg/L	N/A	2016-04-28	
Iron, dissolved	< 0.10	0.10	mg/L	N/A	2016-04-28	
Lead, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Lithium, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Magnesium, dissolved	0.9	0.1	mg/L	N/A	2016-04-28	
Manganese, dissolved	< 0.002	0.002	mg/L	N/A	2016-04-28	

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Analyte	Result / Recovery	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: Well #6 Treated Alum (6041667-05) [Water] Sampled: 2016-04-22 00:00, Continued**

***Dissolved Metals, Continued***

Mercury, dissolved	< 0.00002	0.00002	mg/L	2016-04-26	2016-04-27	
Molybdenum, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Nickel, dissolved	< 0.002	0.002	mg/L	N/A	2016-04-28	
Phosphorus, dissolved	< 0.2	0.2	mg/L	N/A	2016-04-28	
Potassium, dissolved	< 0.2	0.2	mg/L	N/A	2016-04-28	
Selenium, dissolved	< 0.005	0.005	mg/L	N/A	2016-04-28	
Silicon, dissolved	< 5	5	mg/L	N/A	2016-04-28	
Silver, dissolved	< 0.0005	0.0005	mg/L	N/A	2016-04-28	
Sodium, dissolved	<b>3.9</b>	0.2	mg/L	N/A	2016-04-28	
Strontium, dissolved	<b>0.03</b>	0.01	mg/L	N/A	2016-04-28	
Sulfur, dissolved	< 10	10	mg/L	N/A	2016-04-28	
Tellurium, dissolved	< 0.002	0.002	mg/L	N/A	2016-04-28	
Thallium, dissolved	< 0.0002	0.0002	mg/L	N/A	2016-04-28	
Thorium, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Tin, dissolved	< 0.002	0.002	mg/L	N/A	2016-04-28	
Titanium, dissolved	< 0.05	0.05	mg/L	N/A	2016-04-28	
Uranium, dissolved	< 0.0002	0.0002	mg/L	N/A	2016-04-28	
Vanadium, dissolved	< 0.01	0.01	mg/L	N/A	2016-04-28	
Zinc, dissolved	< 0.04	0.04	mg/L	N/A	2016-04-28	
Zirconium, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	

***Total Recoverable Metals***

Aluminum, total	<b>1.26</b>	0.05	mg/L	2016-04-28	2016-04-28	
Antimony, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Arsenic, total	< 0.005	0.005	mg/L	2016-04-28	2016-04-28	
Barium, total	< 0.05	0.05	mg/L	2016-04-28	2016-04-28	
Beryllium, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Bismuth, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Boron, total	< 0.04	0.04	mg/L	2016-04-28	2016-04-28	
Cadmium, total	< 0.0001	0.0001	mg/L	2016-04-28	2016-04-28	
Calcium, total	<b>7.9</b>	2.0	mg/L	2016-04-28	2016-04-28	
Chromium, total	< 0.005	0.005	mg/L	2016-04-28	2016-04-28	
Cobalt, total	< 0.0005	0.0005	mg/L	2016-04-28	2016-04-28	
Copper, total	<b>0.009</b>	0.002	mg/L	2016-04-28	2016-04-28	
Iron, total	< 0.10	0.10	mg/L	2016-04-28	2016-04-28	
Lead, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Lithium, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Magnesium, total	<b>1.0</b>	0.1	mg/L	2016-04-28	2016-04-28	
Manganese, total	< 0.002	0.002	mg/L	2016-04-28	2016-04-28	
Mercury, total	< 0.00002	0.00002	mg/L	2016-04-26	2016-04-26	
Molybdenum, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Nickel, total	< 0.002	0.002	mg/L	2016-04-28	2016-04-28	
Phosphorus, total	<b>0.3</b>	0.2	mg/L	2016-04-28	2016-04-28	
Potassium, total	<b>0.4</b>	0.2	mg/L	2016-04-28	2016-04-28	
Selenium, total	< 0.005	0.005	mg/L	2016-04-28	2016-04-28	
Silicon, total	< 5	5	mg/L	2016-04-28	2016-04-28	

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Analyte	Result / Recovery	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: Well #6 Treated Alum (6041667-05) [Water] Sampled: 2016-04-22 00:00, Continued**

**Total Recoverable Metals, Continued**

Silver, total	< 0.0005	0.0005	mg/L	2016-04-28	2016-04-28	
Sodium, total	<b>4.2</b>	0.2	mg/L	2016-04-28	2016-04-28	
Strontium, total	<b>0.04</b>	0.01	mg/L	2016-04-28	2016-04-28	
Sulfur, total	< 10	10	mg/L	2016-04-28	2016-04-28	
Tellurium, total	< 0.002	0.002	mg/L	2016-04-28	2016-04-28	
Thallium, total	< 0.0002	0.0002	mg/L	2016-04-28	2016-04-28	
Thorium, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Tin, total	< 0.002	0.002	mg/L	2016-04-28	2016-04-28	
Titanium, total	< 0.05	0.05	mg/L	2016-04-28	2016-04-28	
Uranium, total	< 0.0002	0.0002	mg/L	2016-04-28	2016-04-28	
Vanadium, total	< 0.01	0.01	mg/L	2016-04-28	2016-04-28	
Zinc, total	< 0.04	0.04	mg/L	2016-04-28	2016-04-28	
Zirconium, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	

**Sample ID: Well #6 Treated Alum (6041667-06) [Water] Sampled: 2016-04-22 00:00 To 2016-05-02 11:45**

**General Parameters**

pH	<b>6.93</b>	0.01	pH units	N/A	2016-04-27	HT2
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**Haloacetic Acids**

Monochloroacetic Acid	< 0.002	0.002	mg/L	2016-05-05	2016-05-06	
Monobromoacetic Acid	< 0.002	0.002	mg/L	2016-05-05	2016-05-06	
Dichloroacetic Acid	<b>0.056</b>	0.002	mg/L	2016-05-05	2016-05-06	
Trichloroacetic Acid	<b>0.004</b>	0.002	mg/L	2016-05-05	2016-05-06	
Dibromoacetic Acid	< 0.002	0.002	mg/L	2016-05-05	2016-05-06	
Surrogate: 2-Bromopropionic Acid	148	87-159	%	2016-05-05	2016-05-06	

**THM Formation Potential / Chlorine Demand**

Incubation Time	<b>7.0</b>		Days	2016-04-25	2016-05-02	
Incubation Temperature	<b>20</b>	1	°C	2016-04-25	2016-05-02	
Total Haloacetic Acids (HAA5)	<b>0.06</b>	0.002	mg/L	N/A	N/A	
Free Chlorine, Initial Dose	<b>5.25</b>	0.05	mg/L	2016-04-25	2016-05-02	
Free Chlorine, Final	<b>4.60</b>	0.05	mg/L	2016-04-25	2016-05-02	
Chlorine Demand, Free	<b>0.65</b>	0.05	mg/L	N/A	N/A	
Total Trihalomethanes	<b>0.009</b>	0.001	mg/L	N/A	N/A	
Total Trihalomethanes (as CHCl3)	<b>0.009</b>	0.001	mg/L	N/A	N/A	

**Volatile Organic Compounds (VOC)**

Bromodichloromethane	<b>0.002</b>	0.001	mg/L	N/A	2016-05-05	
Bromoform	< 0.001	0.001	mg/L	N/A	2016-05-05	
Chloroform	<b>0.008</b>	0.001	mg/L	N/A	2016-05-05	
Dibromochloromethane	< 0.001	0.001	mg/L	N/A	2016-05-05	
Surrogate: Toluene-d8	99	70-130	%	N/A	2016-05-05	
Surrogate: 4-Bromofluorobenzene	101	70-130	%	N/A	2016-05-05	

**Sample ID: Well #6 Treated PACI (6041667-07) [Water] Sampled: 2016-04-22 00:00**

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**WORK ORDER REPORTED** 6041667  
2016-05-09

Analyte	Result / Recovery	MRL / Units Limits	Prepared	Analyzed	Notes
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**Sample ID: Well #6 Treated PACI (6041667-07) [Water] Sampled: 2016-04-22 00:00, Continued**

**General Parameters**

Alkalinity, Total (as CaCO3)	23	1 mg/L	N/A	2016-04-26	
Carbon, Total Organic	< 0.5	0.5 mg/L	N/A	2016-04-26	
Carbon, Dissolved Organic	< 0.5	0.5 mg/L	2016-04-25	2016-04-26	
Colour, Apparent	< 5	5 CU	N/A	2016-04-25	
Colour, True	< 5	5 CU	N/A	2016-04-25	
pH	7.46	0.01 pH units	N/A	2016-04-26	HT2
Solids, Total Dissolved	32	10 mg/L	N/A	2016-04-26	
UV Transmittance @ 254nm	99.6	0.1 % T	N/A	2016-04-25	

**Calculated Parameters**

Hardness, Total (as CaCO3)	21.4	5.0 mg/L	N/A	N/A	
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**Dissolved Metals**

Aluminum, dissolved	0.10	0.05 mg/L	N/A	2016-04-28	
Antimony, dissolved	< 0.001	0.001 mg/L	N/A	2016-04-28	
Arsenic, dissolved	< 0.005	0.005 mg/L	N/A	2016-04-28	
Barium, dissolved	< 0.05	0.05 mg/L	N/A	2016-04-28	
Beryllium, dissolved	< 0.001	0.001 mg/L	N/A	2016-04-28	
Bismuth, dissolved	< 0.001	0.001 mg/L	N/A	2016-04-28	
Boron, dissolved	< 0.04	0.04 mg/L	N/A	2016-04-28	
Cadmium, dissolved	< 0.0001	0.0001 mg/L	N/A	2016-04-28	
Calcium, dissolved	7.0	2.0 mg/L	N/A	2016-04-28	
Chromium, dissolved	< 0.005	0.005 mg/L	N/A	2016-04-28	
Cobalt, dissolved	< 0.0005	0.0005 mg/L	N/A	2016-04-28	
Copper, dissolved	0.008	0.002 mg/L	N/A	2016-04-28	
Iron, dissolved	< 0.10	0.10 mg/L	N/A	2016-04-28	
Lead, dissolved	< 0.001	0.001 mg/L	N/A	2016-04-28	
Lithium, dissolved	< 0.001	0.001 mg/L	N/A	2016-04-28	
Magnesium, dissolved	0.9	0.1 mg/L	N/A	2016-04-28	
Manganese, dissolved	< 0.002	0.002 mg/L	N/A	2016-04-28	
Mercury, dissolved	< 0.00002	0.00002 mg/L	2016-04-26	2016-04-27	
Molybdenum, dissolved	< 0.001	0.001 mg/L	N/A	2016-04-28	
Nickel, dissolved	< 0.002	0.002 mg/L	N/A	2016-04-28	
Phosphorus, dissolved	< 0.2	0.2 mg/L	N/A	2016-04-28	
Potassium, dissolved	< 0.2	0.2 mg/L	N/A	2016-04-28	
Selenium, dissolved	< 0.005	0.005 mg/L	N/A	2016-04-28	
Silicon, dissolved	< 5	5 mg/L	N/A	2016-04-28	
Silver, dissolved	< 0.0005	0.0005 mg/L	N/A	2016-04-28	
Sodium, dissolved	4.1	0.2 mg/L	N/A	2016-04-28	
Strontium, dissolved	0.03	0.01 mg/L	N/A	2016-04-28	
Sulfur, dissolved	< 10	10 mg/L	N/A	2016-04-28	
Tellurium, dissolved	< 0.002	0.002 mg/L	N/A	2016-04-28	
Thallium, dissolved	< 0.0002	0.0002 mg/L	N/A	2016-04-28	
Thorium, dissolved	< 0.001	0.001 mg/L	N/A	2016-04-28	
Tin, dissolved	< 0.002	0.002 mg/L	N/A	2016-04-28	
Titanium, dissolved	< 0.05	0.05 mg/L	N/A	2016-04-28	



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**Sample ID: Well #6 Treated PACI (6041667-07) [Water] Sampled: 2016-04-22 00:00, Continued**

***Dissolved Metals, Continued***

Uranium, dissolved	< 0.0002	0.0002	mg/L	N/A	2016-04-28	
Vanadium, dissolved	< 0.01	0.01	mg/L	N/A	2016-04-28	
Zinc, dissolved	< 0.04	0.04	mg/L	N/A	2016-04-28	
Zirconium, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	

***Total Recoverable Metals***

Aluminum, total	<b>0.77</b>	0.05	mg/L	2016-04-28	2016-04-28	
Antimony, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Arsenic, total	< 0.005	0.005	mg/L	2016-04-28	2016-04-28	
Barium, total	< 0.05	0.05	mg/L	2016-04-28	2016-04-28	
Beryllium, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Bismuth, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Boron, total	< 0.04	0.04	mg/L	2016-04-28	2016-04-28	
Cadmium, total	< 0.0001	0.0001	mg/L	2016-04-28	2016-04-28	
Calcium, total	<b>7.6</b>	2.0	mg/L	2016-04-28	2016-04-28	
Chromium, total	< 0.005	0.005	mg/L	2016-04-28	2016-04-28	
Cobalt, total	< 0.0005	0.0005	mg/L	2016-04-28	2016-04-28	
Copper, total	<b>0.011</b>	0.002	mg/L	2016-04-28	2016-04-28	
Iron, total	< 0.10	0.10	mg/L	2016-04-28	2016-04-28	
Lead, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Lithium, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Magnesium, total	<b>1.0</b>	0.1	mg/L	2016-04-28	2016-04-28	
Manganese, total	< 0.002	0.002	mg/L	2016-04-28	2016-04-28	
Mercury, total	<b>0.00003</b>	0.00002	mg/L	2016-04-26	2016-04-26	
Molybdenum, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Nickel, total	< 0.002	0.002	mg/L	2016-04-28	2016-04-28	
Phosphorus, total	<b>0.2</b>	0.2	mg/L	2016-04-28	2016-04-28	
Potassium, total	<b>0.4</b>	0.2	mg/L	2016-04-28	2016-04-28	
Selenium, total	< 0.005	0.005	mg/L	2016-04-28	2016-04-28	
Silicon, total	< 5	5	mg/L	2016-04-28	2016-04-28	
Silver, total	< 0.0005	0.0005	mg/L	2016-04-28	2016-04-28	
Sodium, total	<b>4.4</b>	0.2	mg/L	2016-04-28	2016-04-28	
Strontium, total	<b>0.04</b>	0.01	mg/L	2016-04-28	2016-04-28	
Sulfur, total	< 10	10	mg/L	2016-04-28	2016-04-28	
Tellurium, total	< 0.002	0.002	mg/L	2016-04-28	2016-04-28	
Thallium, total	< 0.0002	0.0002	mg/L	2016-04-28	2016-04-28	
Thorium, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Tin, total	< 0.002	0.002	mg/L	2016-04-28	2016-04-28	
Titanium, total	< 0.05	0.05	mg/L	2016-04-28	2016-04-28	
Uranium, total	< 0.0002	0.0002	mg/L	2016-04-28	2016-04-28	
Vanadium, total	< 0.01	0.01	mg/L	2016-04-28	2016-04-28	
Zinc, total	< 0.04	0.04	mg/L	2016-04-28	2016-04-28	
Zirconium, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	

**Sample ID: Well #6 Treated PACI (6041667-08) [Water] Sampled: 2016-04-22 00:00**

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Analyte	Result / Recovery	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: Well #6 Treated PACI (6041667-08) [Water] Sampled: 2016-04-22 00:00, Continued**

<b>General Parameters</b>						
pH	7.06	0.01	pH units	N/A	2016-04-27	HT2
<b>Haloacetic Acids</b>						
Monochloroacetic Acid	< 0.002	0.002	mg/L	2016-05-05	2016-05-06	
Monobromoacetic Acid	0.002	0.002	mg/L	2016-05-05	2016-05-06	
Dichloroacetic Acid	0.066	0.002	mg/L	2016-05-05	2016-05-06	
Trichloroacetic Acid	0.005	0.002	mg/L	2016-05-05	2016-05-06	
Dibromoacetic Acid	< 0.002	0.002	mg/L	2016-05-05	2016-05-06	
Surrogate: 2-Bromopropionic Acid	138	87-159	%	2016-05-05	2016-05-06	
<b>THM Formation Potential / Chlorine Demand</b>						
Incubation Time	7.0		Days	2016-04-25	2016-05-02	
Incubation Temperature	20	1	°C	2016-04-25	2016-05-02	
Total Haloacetic Acids (HAA5)	0.07	0.002	mg/L	N/A	N/A	
Free Chlorine, Initial Dose	4.90	0.05	mg/L	2016-04-25	2016-05-02	
Free Chlorine, Final	4.30	0.05	mg/L	2016-04-25	2016-05-02	
Chlorine Demand, Free	0.60	0.05	mg/L	N/A	N/A	
Total Trihalomethanes	0.01	0.001	mg/L	N/A	N/A	
Total Trihalomethanes (as CHCl3)	0.01	0.001	mg/L	N/A	N/A	
<b>Volatile Organic Compounds (VOC)</b>						
Bromodichloromethane	0.002	0.001	mg/L	N/A	2016-05-05	
Bromoform	< 0.001	0.001	mg/L	N/A	2016-05-05	
Chloroform	0.008	0.001	mg/L	N/A	2016-05-05	
Dibromochloromethane	< 0.001	0.001	mg/L	N/A	2016-05-05	
Surrogate: Toluene-d8	95	70-130	%	N/A	2016-05-05	
Surrogate: 4-Bromofluorobenzene	95	70-130	%	N/A	2016-05-05	

**Sample ID: Well #3 Treated PAC (6041667-09) [Water] Sampled: 2016-04-21 00:00**

<b>Calculated Parameters</b>						
Hardness, Total (as CaCO3)	21.7	5.0	mg/L	N/A	N/A	
<b>Dissolved Metals</b>						
Aluminum, dissolved	0.07	0.05	mg/L	N/A	2016-04-28	
Antimony, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Arsenic, dissolved	< 0.005	0.005	mg/L	N/A	2016-04-28	
Barium, dissolved	< 0.05	0.05	mg/L	N/A	2016-04-28	
Beryllium, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Bismuth, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Boron, dissolved	< 0.04	0.04	mg/L	N/A	2016-04-28	
Cadmium, dissolved	< 0.0001	0.0001	mg/L	N/A	2016-04-28	
Calcium, dissolved	7.1	2.0	mg/L	N/A	2016-04-28	
Chromium, dissolved	< 0.005	0.005	mg/L	N/A	2016-04-28	
Cobalt, dissolved	< 0.0005	0.0005	mg/L	N/A	2016-04-28	
Copper, dissolved	0.006	0.002	mg/L	N/A	2016-04-28	
Iron, dissolved	< 0.10	0.10	mg/L	N/A	2016-04-28	

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Analyte	Result / Recovery	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: Well #3 Treated PAC (6041667-09) [Water] Sampled: 2016-04-21 00:00, Continued**

***Dissolved Metals, Continued***

Lead, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Lithium, dissolved	<b>0.002</b>	0.001	mg/L	N/A	2016-04-28	
Magnesium, dissolved	<b>0.9</b>	0.1	mg/L	N/A	2016-04-28	
Manganese, dissolved	< 0.002	0.002	mg/L	N/A	2016-04-28	
Mercury, dissolved	< 0.00002	0.00002	mg/L	2016-04-26	2016-04-27	
Molybdenum, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Nickel, dissolved	< 0.002	0.002	mg/L	N/A	2016-04-28	
Phosphorus, dissolved	< 0.2	0.2	mg/L	N/A	2016-04-28	
Potassium, dissolved	< 0.2	0.2	mg/L	N/A	2016-04-28	
Selenium, dissolved	< 0.005	0.005	mg/L	N/A	2016-04-28	
Silicon, dissolved	< 5	5	mg/L	N/A	2016-04-28	
Silver, dissolved	< 0.0005	0.0005	mg/L	N/A	2016-04-28	
Sodium, dissolved	<b>10.1</b>	0.2	mg/L	N/A	2016-04-28	
Strontium, dissolved	<b>0.06</b>	0.01	mg/L	N/A	2016-04-28	
Sulfur, dissolved	< 10	10	mg/L	N/A	2016-04-28	
Tellurium, dissolved	< 0.002	0.002	mg/L	N/A	2016-04-28	
Thallium, dissolved	< 0.0002	0.0002	mg/L	N/A	2016-04-28	
Thorium, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	
Tin, dissolved	< 0.002	0.002	mg/L	N/A	2016-04-28	
Titanium, dissolved	< 0.05	0.05	mg/L	N/A	2016-04-28	
Uranium, dissolved	< 0.0002	0.0002	mg/L	N/A	2016-04-28	
Vanadium, dissolved	< 0.01	0.01	mg/L	N/A	2016-04-28	
Zinc, dissolved	< 0.04	0.04	mg/L	N/A	2016-04-28	
Zirconium, dissolved	< 0.001	0.001	mg/L	N/A	2016-04-28	

***Total Recoverable Metals***

Aluminum, total	<b>0.30</b>	0.05	mg/L	2016-04-28	2016-04-28	
Antimony, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Arsenic, total	< 0.005	0.005	mg/L	2016-04-28	2016-04-28	
Barium, total	< 0.05	0.05	mg/L	2016-04-28	2016-04-28	
Beryllium, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Bismuth, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Boron, total	< 0.04	0.04	mg/L	2016-04-28	2016-04-28	
Cadmium, total	< 0.0001	0.0001	mg/L	2016-04-28	2016-04-28	
Calcium, total	<b>8.2</b>	2.0	mg/L	2016-04-28	2016-04-28	
Chromium, total	< 0.005	0.005	mg/L	2016-04-28	2016-04-28	
Cobalt, total	< 0.0005	0.0005	mg/L	2016-04-28	2016-04-28	
Copper, total	<b>0.010</b>	0.002	mg/L	2016-04-28	2016-04-28	
Iron, total	< 0.10	0.10	mg/L	2016-04-28	2016-04-28	
Lead, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Lithium, total	<b>0.002</b>	0.001	mg/L	2016-04-28	2016-04-28	
Magnesium, total	<b>1.1</b>	0.1	mg/L	2016-04-28	2016-04-28	
Manganese, total	< 0.002	0.002	mg/L	2016-04-28	2016-04-28	
Mercury, total	< 0.00002	0.00002	mg/L	2016-04-26	2016-04-26	
Molybdenum, total	< 0.001	0.001	mg/L	2016-04-28	2016-04-28	
Nickel, total	< 0.002	0.002	mg/L	2016-04-28	2016-04-28	

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Analyte	Result / Recovery	MRL / Units Limits	Prepared	Analyzed	Notes
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**Sample ID: Well #3 Treated PAC (6041667-09) [Water] Sampled: 2016-04-21 00:00, Continued**

**Total Recoverable Metals, Continued**

Phosphorus, total	0.3	0.2 mg/L	2016-04-28	2016-04-28	
Potassium, total	0.5	0.2 mg/L	2016-04-28	2016-04-28	
Selenium, total	< 0.005	0.005 mg/L	2016-04-28	2016-04-28	
Silicon, total	< 5	5 mg/L	2016-04-28	2016-04-28	
Silver, total	< 0.0005	0.0005 mg/L	2016-04-28	2016-04-28	
Sodium, total	11.7	0.2 mg/L	2016-04-28	2016-04-28	
Strontium, total	0.06	0.01 mg/L	2016-04-28	2016-04-28	
Sulfur, total	< 10	10 mg/L	2016-04-28	2016-04-28	
Tellurium, total	< 0.002	0.002 mg/L	2016-04-28	2016-04-28	
Thallium, total	< 0.0002	0.0002 mg/L	2016-04-28	2016-04-28	
Thorium, total	< 0.001	0.001 mg/L	2016-04-28	2016-04-28	
Tin, total	< 0.002	0.002 mg/L	2016-04-28	2016-04-28	
Titanium, total	< 0.05	0.05 mg/L	2016-04-28	2016-04-28	
Uranium, total	< 0.0002	0.0002 mg/L	2016-04-28	2016-04-28	
Vanadium, total	< 0.01	0.01 mg/L	2016-04-28	2016-04-28	
Zinc, total	< 0.04	0.04 mg/L	2016-04-28	2016-04-28	
Zirconium, total	< 0.001	0.001 mg/L	2016-04-28	2016-04-28	

**Sample / Analysis Qualifiers:**

- HT1 The sample was prepared / analyzed past the recommended holding time.
- HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.

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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
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**Dissolved Metals, Batch B6D1467**

<b>Blank (B6D1467-BLK1)</b> Prepared: 2016-04-26, Analyzed: 2016-04-27									
Mercury, dissolved	< 0.00002	0.00002 mg/L							
<b>Blank (B6D1467-BLK2)</b> Prepared: 2016-04-26, Analyzed: 2016-04-27									
Mercury, dissolved	< 0.00002	0.00002 mg/L							
<b>Reference (B6D1467-SRM1)</b> Prepared: 2016-04-26, Analyzed: 2016-04-27									
Mercury, dissolved	0.00379	0.00002 mg/L	0.00456		83	50-150			
<b>Reference (B6D1467-SRM2)</b> Prepared: 2016-04-26, Analyzed: 2016-04-27									
Mercury, dissolved	0.00368	0.00002 mg/L	0.00456		81	50-150			

**Dissolved Metals, Batch B6D1587**

<b>Blank (B6D1587-BLK1)</b> Prepared: 2016-04-28, Analyzed: 2016-04-28									
Aluminum, dissolved	< 0.05	0.05 mg/L							
Antimony, dissolved	< 0.001	0.001 mg/L							
Arsenic, dissolved	< 0.005	0.005 mg/L							
Barium, dissolved	< 0.05	0.05 mg/L							
Beryllium, dissolved	< 0.001	0.001 mg/L							
Bismuth, dissolved	< 0.001	0.001 mg/L							
Boron, dissolved	< 0.04	0.04 mg/L							
Cadmium, dissolved	< 0.0001	0.0001 mg/L							
Calcium, dissolved	< 2.0	2.0 mg/L							
Chromium, dissolved	< 0.005	0.005 mg/L							
Cobalt, dissolved	< 0.0005	0.0005 mg/L							
Copper, dissolved	< 0.002	0.002 mg/L							
Iron, dissolved	< 0.10	0.10 mg/L							
Lead, dissolved	< 0.001	0.001 mg/L							
Lithium, dissolved	< 0.001	0.001 mg/L							
Magnesium, dissolved	< 0.1	0.1 mg/L							
Manganese, dissolved	< 0.002	0.002 mg/L							
Molybdenum, dissolved	< 0.001	0.001 mg/L							

**APPENDIX 1: QUALITY CONTROL DATA**

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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
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**Dissolved Metals, Batch B6D1587, Continued**

**Blank (B6D1587-BLK1), Continued**

Prepared: 2016-04-28, Analyzed: 2016-04-28

Nickel, dissolved	< 0.002	0.002 mg/L							
Phosphorus, dissolved	< 0.2	0.2 mg/L							
Potassium, dissolved	< 0.2	0.2 mg/L							
Selenium, dissolved	< 0.005	0.005 mg/L							
Silicon, dissolved	< 5	5 mg/L							
Silver, dissolved	< 0.0005	0.0005 mg/L							
Sodium, dissolved	< 0.2	0.2 mg/L							
Strontium, dissolved	< 0.01	0.01 mg/L							
Sulfur, dissolved	< 10	10 mg/L							
Tellurium, dissolved	< 0.002	0.002 mg/L							
Thallium, dissolved	< 0.0002	0.0002 mg/L							
Thorium, dissolved	< 0.001	0.001 mg/L							
Tin, dissolved	< 0.002	0.002 mg/L							
Titanium, dissolved	< 0.05	0.05 mg/L							
Uranium, dissolved	< 0.0002	0.0002 mg/L							
Vanadium, dissolved	< 0.01	0.01 mg/L							
Zinc, dissolved	< 0.04	0.04 mg/L							
Zirconium, dissolved	< 0.001	0.001 mg/L							

**Matrix Spike (B6D1587-MS1)**

Source: 6041667-01

Prepared: 2016-04-28, Analyzed: 2016-04-28

Antimony, dissolved	0.326	0.001 mg/L	0.400	< 0.001	81	71-112			
Arsenic, dissolved	0.197	0.005 mg/L	0.200	< 0.005	99	82-112			
Barium, dissolved	1.04	0.05 mg/L	1.00	< 0.05	103	80-109			
Beryllium, dissolved	0.087	0.001 mg/L	0.100	< 0.001	87	75-111			
Cadmium, dissolved	0.101	0.0001 mg/L	0.100	< 0.0001	101	84-109			
Chromium, dissolved	0.412	0.005 mg/L	0.400	< 0.005	103	87-115			
Cobalt, dissolved	0.401	0.0005 mg/L	0.400	< 0.0005	100	85-118			
Copper, dissolved	0.428	0.002 mg/L	0.400	0.004	106	84-121			
Iron, dissolved	1.90	0.10 mg/L	2.00	< 0.10	95	71-129			
Lead, dissolved	0.200	0.001 mg/L	0.200	< 0.001	100	81-111			
Manganese, dissolved	0.400	0.002 mg/L	0.400	< 0.002	100	66-125			
Nickel, dissolved	0.410	0.002 mg/L	0.400	< 0.002	102	85-115			
Selenium, dissolved	0.106	0.005 mg/L	0.100	< 0.005	106	77-113			
Silver, dissolved	0.111	0.0005 mg/L	0.100	< 0.0005	111	52-131			
Thallium, dissolved	0.0994	0.0002 mg/L	0.100	< 0.0002	99	82-111			
Vanadium, dissolved	0.41	0.01 mg/L	0.400	< 0.01	101	85-111			
Zinc, dissolved	1.03	0.04 mg/L	1.00	< 0.04	103	85-115			

**Reference (B6D1587-SRM1)**

Prepared: 2016-04-28, Analyzed: 2016-04-28

Aluminum, dissolved	0.26	0.05 mg/L	0.233		110	58-142			
Antimony, dissolved	0.050	0.001 mg/L	0.0430		115	75-125			
Arsenic, dissolved	0.506	0.005 mg/L	0.438		116	81-119			
Barium, dissolved	3.64	0.05 mg/L	3.35		109	83-117			
Beryllium, dissolved	0.201	0.001 mg/L	0.213		95	80-120			
Boron, dissolved	1.54	0.04 mg/L	1.74		89	74-117			
Cadmium, dissolved	0.241	0.0001 mg/L	0.224		108	83-117			
Calcium, dissolved	7.8	2.0 mg/L	7.69		102	76-124			
Chromium, dissolved	0.469	0.005 mg/L	0.437		107	81-119			
Cobalt, dissolved	0.140	0.0005 mg/L	0.128		109	76-124			
Copper, dissolved	0.965	0.002 mg/L	0.844		114	84-116			
Iron, dissolved	1.32	0.10 mg/L	1.29		102	74-126			
Lead, dissolved	0.119	0.001 mg/L	0.112		106	72-128			
Lithium, dissolved	0.092	0.001 mg/L	0.104		88	60-140			
Magnesium, dissolved	6.9	0.1 mg/L	6.92		99	81-119			
Manganese, dissolved	0.376	0.002 mg/L	0.345		109	84-116			
Molybdenum, dissolved	0.428	0.001 mg/L	0.426		100	83-117			
Nickel, dissolved	0.914	0.002 mg/L	0.840		109	74-126			

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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>Dissolved Metals, Batch B6D1587, Continued</b>									
<b>Reference (B6D1587-SRM1), Continued</b>					Prepared: 2016-04-28, Analyzed: 2016-04-28				
Phosphorus, dissolved	0.6	0.2 mg/L	0.495		123	68-132			
Potassium, dissolved	3.1	0.2 mg/L	3.19		98	74-126			
Selenium, dissolved	0.038	0.005 mg/L	0.0331		114	70-130			
Sodium, dissolved	18.7	0.2 mg/L	19.1		98	72-128			
Strontium, dissolved	0.99	0.01 mg/L	0.916		108	84-113			
Thallium, dissolved	0.0412	0.0002 mg/L	0.0393		105	57-143			
Uranium, dissolved	0.266	0.0002 mg/L	0.266		100	85-115			
Vanadium, dissolved	0.92	0.01 mg/L	0.869		106	87-113			
Zinc, dissolved	0.99	0.04 mg/L	0.881		112	72-128			

**General Parameters, Batch B6D1382**

<b>Blank (B6D1382-BLK1)</b>					Prepared: 2016-04-25, Analyzed: 2016-04-25				
Colour, True	< 5	5 CU							
<b>LCS (B6D1382-BS1)</b>					Prepared: 2016-04-25, Analyzed: 2016-04-25				
Colour, True	10	5 CU	10.0		102	85-115			

**General Parameters, Batch B6D1384**

<b>Blank (B6D1384-BLK1)</b>					Prepared: 2016-04-25, Analyzed: 2016-04-25				
UV Transmittance @ 254nm	< 0.1	0.1 % T							
<b>Duplicate (B6D1384-DUP1)</b>					Source: 6041667-07 Prepared: 2016-04-25, Analyzed: 2016-04-25				
UV Transmittance @ 254nm	99.7	0.1 % T	99.6		< 1	15			
<b>Reference (B6D1384-SRM1)</b>					Prepared: 2016-04-25, Analyzed: 2016-04-25				
UV Transmittance @ 254nm	47.8	0.1 % T	46.4		103	90-110			

**General Parameters, Batch B6D1385**

<b>Blank (B6D1385-BLK1)</b>					Prepared: 2016-04-25, Analyzed: 2016-04-25				
Colour, Apparent	< 5	5 CU							
<b>LCS (B6D1385-BS1)</b>					Prepared: 2016-04-25, Analyzed: 2016-04-25				
Colour, Apparent	10	5 CU	10.0		100	93-111			
<b>Duplicate (B6D1385-DUP1)</b>					Source: 6041667-07 Prepared: 2016-04-25, Analyzed: 2016-04-25				
Colour, Apparent	< 5	5 CU	< 5					5	

**General Parameters, Batch B6D1413**

<b>Blank (B6D1413-BLK1)</b>					Prepared: 2016-04-26, Analyzed: 2016-04-26				
Carbon, Total Organic	< 0.5	0.5 mg/L							
Carbon, Dissolved Organic	< 0.5	0.5 mg/L							
<b>LCS (B6D1413-BS1)</b>					Prepared: 2016-04-26, Analyzed: 2016-04-26				
Carbon, Total Organic	9.2	0.5 mg/L	10.0		92	78-116			
Carbon, Dissolved Organic	9.0	0.5 mg/L	10.0		90	80-120			

**General Parameters, Batch B6D1488**

<b>Blank (B6D1488-BLK1)</b>					Prepared: 2016-04-26, Analyzed: 2016-04-26				
Alkalinity, Total (as CaCO <sub>3</sub> )	< 1	1 mg/L							



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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>General Parameters, Batch B6D1488, Continued</b>									
<b>Blank (B6D1488-BLK2)</b>			Prepared: 2016-04-26, Analyzed: 2016-04-26						
Alkalinity, Total (as CaCO3)	< 1	1 mg/L							
<b>LCS (B6D1488-BS1)</b>			Prepared: 2016-04-26, Analyzed: 2016-04-26						
Alkalinity, Total (as CaCO3)	102	1 mg/L	100		102	96-108			
<b>LCS (B6D1488-BS2)</b>			Prepared: 2016-04-26, Analyzed: 2016-04-26						
Alkalinity, Total (as CaCO3)	99	1 mg/L	100		99	96-108			
<b>Duplicate (B6D1488-DUP2)</b>			<b>Source: 6041667-03</b>		Prepared: 2016-04-26, Analyzed: 2016-04-26				
Alkalinity, Total (as CaCO3)	24	1 mg/L		24			1	10	
pH	7.46	0.01 pH units		7.45			< 1	5	
<b>Reference (B6D1488-SRM1)</b>			Prepared: 2016-04-26, Analyzed: 2016-04-26						
pH	6.97	0.01 pH units	7.00		100	98-102			
<b>Reference (B6D1488-SRM2)</b>			Prepared: 2016-04-26, Analyzed: 2016-04-26						
pH	6.96	0.01 pH units	7.00		99	98-102			
<b>General Parameters, Batch B6D1495</b>									
<b>Blank (B6D1495-BLK1)</b>			Prepared: 2016-04-26, Analyzed: 2016-04-26						
Solids, Total Dissolved	< 10	10 mg/L							
<b>Reference (B6D1495-SRM1)</b>			Prepared: 2016-04-26, Analyzed: 2016-04-26						
Solids, Total Dissolved	208	10 mg/L	240		87	85-115			
<b>General Parameters, Batch B6D1527</b>									
<b>Reference (B6D1527-SRM1)</b>			Prepared: 2016-04-27, Analyzed: 2016-04-27						
pH	6.96	0.01 pH units	7.00		99	98-102			
<b>Haloacetic Acids, Batch B6E0248</b>									
<b>Blank (B6E0248-BLK1)</b>			Prepared: 2016-05-05, Analyzed: 2016-05-06						
Monochloroacetic Acid	< 0.002	0.002 mg/L							
Monobromoacetic Acid	< 0.002	0.002 mg/L							
Dichloroacetic Acid	< 0.002	0.002 mg/L							
Trichloroacetic Acid	< 0.002	0.002 mg/L							
Dibromoacetic Acid	< 0.002	0.002 mg/L							
Surrogate: 2-Bromopropionic Acid	0.0141	mg/L	0.0116		122	87-159			
<b>LCS (B6E0248-BS1)</b>			Prepared: 2016-05-05, Analyzed: 2016-05-06						
Monochloroacetic Acid	0.029	0.002 mg/L	0.0539		54	41-72			
Monobromoacetic Acid	0.025	0.002 mg/L	0.0364		70	58-84			
Dichloroacetic Acid	0.084	0.002 mg/L	0.0534		157	95-151			SPK
Trichloroacetic Acid	0.024	0.002 mg/L	0.0182		132	90-151			
Dibromoacetic Acid	0.036	0.002 mg/L	0.0190		190	78-155			SPK
Surrogate: 2-Bromopropionic Acid	0.0180	mg/L	0.0116		155	87-159			
<b>Total Recoverable Metals, Batch B6D1468</b>									
<b>Blank (B6D1468-BLK1)</b>			Prepared: 2016-04-26, Analyzed: 2016-04-26						
Mercury, total	< 0.00002	0.00002 mg/L							

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Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>Total Recoverable Metals, Batch B6D1468, Continued</b>									
<b>Blank (B6D1468-BLK2)</b>			Prepared: 2016-04-26, Analyzed: 2016-04-26						
Mercury, total	< 0.00002	0.00002 mg/L							
<b>Reference (B6D1468-SRM1)</b>			Prepared: 2016-04-26, Analyzed: 2016-04-26						
Mercury, total	0.00358	0.00002 mg/L	0.00456		79	50-150			
<b>Reference (B6D1468-SRM2)</b>			Prepared: 2016-04-26, Analyzed: 2016-04-26						
Mercury, total	0.00334	0.00002 mg/L	0.00456		73	50-150			
<b>Total Recoverable Metals, Batch B6D1578</b>									
<b>Blank (B6D1578-BLK1)</b>			Prepared: 2016-04-28, Analyzed: 2016-04-28						
Aluminum, total	< 0.05	0.05 mg/L							
Antimony, total	< 0.001	0.001 mg/L							
Arsenic, total	< 0.005	0.005 mg/L							
Barium, total	< 0.05	0.05 mg/L							
Beryllium, total	< 0.001	0.001 mg/L							
Bismuth, total	< 0.001	0.001 mg/L							
Boron, total	< 0.04	0.04 mg/L							
Cadmium, total	< 0.0001	0.0001 mg/L							
Calcium, total	< 2.0	2.0 mg/L							
Chromium, total	< 0.005	0.005 mg/L							
Cobalt, total	< 0.0005	0.0005 mg/L							
Copper, total	< 0.002	0.002 mg/L							
Iron, total	< 0.10	0.10 mg/L							
Lead, total	< 0.001	0.001 mg/L							
Lithium, total	< 0.001	0.001 mg/L							
Magnesium, total	< 0.1	0.1 mg/L							
Manganese, total	< 0.002	0.002 mg/L							
Molybdenum, total	< 0.001	0.001 mg/L							
Nickel, total	< 0.002	0.002 mg/L							
Phosphorus, total	< 0.2	0.2 mg/L							
Potassium, total	< 0.2	0.2 mg/L							
Selenium, total	< 0.005	0.005 mg/L							
Silicon, total	< 5	5 mg/L							
Silver, total	< 0.0005	0.0005 mg/L							
Sodium, total	< 0.2	0.2 mg/L							
Strontium, total	< 0.01	0.01 mg/L							
Sulfur, total	< 10	10 mg/L							
Tellurium, total	< 0.002	0.002 mg/L							
Thallium, total	< 0.0002	0.0002 mg/L							
Thorium, total	< 0.001	0.001 mg/L							
Tin, total	< 0.002	0.002 mg/L							
Titanium, total	< 0.05	0.05 mg/L							
Uranium, total	< 0.0002	0.0002 mg/L							
Vanadium, total	< 0.01	0.01 mg/L							
Zinc, total	< 0.04	0.04 mg/L							
Zirconium, total	< 0.001	0.001 mg/L							
<b>Reference (B6D1578-SRM1)</b>			Prepared: 2016-04-28, Analyzed: 2016-04-28						
Aluminum, total	0.35	0.05 mg/L	0.296		119	81-129			
Antimony, total	0.050	0.001 mg/L	0.0505		99	88-114			
Arsenic, total	0.127	0.005 mg/L	0.122		104	88-114			
Barium, total	0.70	0.05 mg/L	0.777		90	72-104			
Beryllium, total	0.043	0.001 mg/L	0.0488		89	76-131			
Boron, total	2.73	0.04 mg/L	3.40		80	75-121			
Cadmium, total	0.0489	0.0001 mg/L	0.0490		100	89-111			

**APPENDIX 1: QUALITY CONTROL DATA**

**REPORTED TO PROJECT** Associated Engineering (Burnaby) Ltd.  
NCID

**WORK ORDER REPORTED** 6041667  
2016-05-09

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<b>Total Recoverable Metals, Batch B6D1578, Continued</b>									
<b>Reference (B6D1578-SRM1), Continued</b>					Prepared: 2016-04-28, Analyzed: 2016-04-28				
Calcium, total	9.6	2.0 mg/L	10.2		94	86-121			
Chromium, total	0.240	0.005 mg/L	0.242		99	89-114			
Cobalt, total	0.0381	0.0005 mg/L	0.0366		104	91-113			
Copper, total	0.509	0.002 mg/L	0.487		105	91-115			
Iron, total	0.45	0.10 mg/L	0.469		95	77-124			
Lead, total	0.197	0.001 mg/L	0.193		102	92-113			
Lithium, total	0.341	0.001 mg/L	0.390		87	85-115			
Magnesium, total	3.1	0.1 mg/L	3.31		94	78-120			
Manganese, total	0.107	0.002 mg/L	0.109		98	90-114			
Molybdenum, total	0.180	0.001 mg/L	0.197		92	90-111			
Nickel, total	0.241	0.002 mg/L	0.242		99	90-111			
Phosphorus, total	0.2	0.2 mg/L	0.233		98	85-115			
Potassium, total	6.0	0.2 mg/L	5.93		101	84-113			
Selenium, total	0.122	0.005 mg/L	0.115		106	85-115			
Sodium, total	6.9	0.2 mg/L	7.64		91	82-123			
Strontium, total	0.37	0.01 mg/L	0.363		101	88-112			
Thallium, total	0.0801	0.0002 mg/L	0.0794		101	91-114			
Uranium, total	0.0182	0.0002 mg/L	0.0192		95	85-120			
Vanadium, total	0.36	0.01 mg/L	0.376		97	86-111			
Zinc, total	2.43	0.04 mg/L	2.42		100	85-111			

**Volatile Organic Compounds (VOC), Batch B6E0273**

<b>Blank (B6E0273-BLK1)</b>					Prepared: 2016-05-05, Analyzed: 2016-05-05				
Bromodichloromethane	< 0.001	0.001 mg/L							
Bromoform	< 0.001	0.001 mg/L							
Chloroform	< 0.001	0.001 mg/L							
Dibromochloromethane	< 0.001	0.001 mg/L							
Surrogate: Toluene-d8	0.0213	mg/L	0.0250		85	70-130			
Surrogate: 4-Bromofluorobenzene	0.0200	mg/L	0.0250		80	70-130			
<b>LCS (B6E0273-BS1)</b>					Prepared: 2016-05-05, Analyzed: 2016-05-05				
Bromodichloromethane	0.020	0.001 mg/L	0.0200		102	70-130			
Bromoform	0.020	0.001 mg/L	0.0200		102	70-130			
Chloroform	0.022	0.001 mg/L	0.0200		108	70-130			
Dibromochloromethane	0.019	0.001 mg/L	0.0200		96	70-130			
Surrogate: Toluene-d8	0.0228	mg/L	0.0250		91	70-130			
Surrogate: 4-Bromofluorobenzene	0.0246	mg/L	0.0250		98	70-130			

**QC Qualifiers:**

SPK The recovery of this analyte was outside of established control limits.