

REPORTED TO	Cherry Ridge Management 37 Hollingsworth Rd Cherryville, BC V0E 2G2	TEL	1-250-547-9091
		FAX	-
ATTENTION	Melanie Staker	WORK ORDER	6052218
PO NUMBER		RECEIVED / TEMP	2016-05-30 09:00 / 8°C
PROJECT	Creek Monitoring	REPORTED	2016-06-08
PROJECT INFO		COC NUMBER	40837.5581

General Comments:

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

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



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Analysis Description	Method Reference	Technique	Location
Ammonia, Total in Water	APHA 4500-NH3 G*	Automated Colorimetry (Phenate)	Kelowna
Anions by IC in Water	APHA 4110 B	Ion Chromatography with Chemical Suppression of Eluent Conductivity	Kelowna
Conductivity in Water	APHA 2510 B	Conductivity Meter	Kelowna
Dissolved Metals by ICPMS in Water	APHA 3030 B / APHA 3125 B	0.45 µm Filtration / Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	Richmond
E. coli (MF-NA+MUG) in Water	APHA 9222 G	Membrane Filtration / Nutrient Agar with MUG	Kelowna
Hardness (as CaCO3) in Water	APHA 2340 B*	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Estimated)	N/A
Mercury, total by CVAFS in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	Richmond
Nitrogen, Total Kjeldahl in Water	APHA 4500-Norg D*	Block Digestion and Flow Injection Analysis	Kelowna
pH in Water	APHA 4500-H+ B	Electrometry	Kelowna
Phosphorus, Total by Colorimetry in Water	APHA 4500-P B.5* / APHA 4500-P F	Persulfate Digestion / Automated Colorimetry (Ascorbic Acid)	Kelowna
Phosphorus, Total Dissolved by Colorimetry in Water	APHA 4500-P B.5* / APHA 4500-P F	Persulfate Digestion / Automated Colorimetry (Ascorbic Acid)	Kelowna
Total Metals by ICPMS in Water	APHA 3030E* / APHA 3125 B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	Richmond
Turbidity in Water	APHA 2130 B	Nephelometry	Kelowna

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
 AO Aesthetic objective
 MAC Maximum acceptable concentration (health based)
 OG Operational guideline (treated water)
 CFU/100 mL Colony Forming Units per 100 millilitres
 mg/L Milligrams per litre
 NTU Nephelometric Turbidity Units
 pH units pH < 7 = acidic, pH > 7 = basic
 µg/L Micrograms per litre
 µS/cm Microsiemens per centimetre

Standards / Guidelines Referenced in this Report:

Guidelines for Canadian Drinking Water Quality (Oct 2014)
 Website: http://www.hc-sc.gc.ca/ewh-semt/alt_formats/pdf/pubs/water-eau/sum_guide-res_recom/sum_guide-res_recom-eng.pdf

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

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Analyte	Result / Recovery	Standard / Guideline	MRL / Limits	Units	Prepared	Analyzed	Notes
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Sample ID: North Fork Cherry Creek (6052218-01) [Water] Sampled: 2016-05-29 12:00

F1, FILT, PRES

Anions

Chloride	< 0.10	AO ≤ 250	0.10	mg/L	N/A	2016-06-01	
Nitrate (as N)	0.020	MAC = 10	0.010	mg/L	N/A	2016-06-01	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	N/A	2016-06-01	
Sulfate	5.7	AO ≤ 500	1.0	mg/L	N/A	2016-06-01	

General Parameters

Ammonia, Total (as N)	< 0.020	N/A	0.020	mg/L	N/A	2016-06-04	
Conductivity (EC)	93	N/A	2	µS/cm	N/A	2016-06-04	
Nitrogen, Total Kjeldahl	0.34	N/A	0.05	mg/L	2016-06-01	2016-06-02	
pH	7.23	6.5-8.5	0.01	pH units	N/A	2016-06-04	HT2
Phosphorus, Total (as P)	0.013	N/A	0.002	mg/L	2016-06-02	2016-06-03	
Phosphorus, Total Dissolved	0.007	N/A	0.002	mg/L	2016-06-02	2016-06-03	
Turbidity	3.34	OG < 0.1	0.10	NTU	N/A	2016-05-30	

Calculated Parameters

Hardness, Total (as CaCO3)	48.7	N/A	0.1	mg/L	N/A	N/A	
Nitrate+Nitrite (as N)	0.020	N/A	0.010	mg/L	N/A	N/A	
Nitrogen, Total	0.355	N/A	0.050	mg/L	N/A	N/A	

Dissolved Metals

Aluminum, dissolved	27	N/A	1	µg/L	N/A	2016-06-03	
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Total Recoverable Metals

Aluminum, total	363	OG < 100	1	µg/L	2016-06-02	2016-06-03	
Antimony, total	< 0.05	MAC = 6	0.05	µg/L	2016-06-02	2016-06-03	
Arsenic, total	0.18	MAC = 10	0.05	µg/L	2016-06-02	2016-06-03	
Barium, total	12.6	MAC = 1000	0.1	µg/L	2016-06-02	2016-06-03	
Beryllium, total	0.01	N/A	0.01	µg/L	2016-06-02	2016-06-03	
Bismuth, total	< 0.01	N/A	0.01	µg/L	2016-06-02	2016-06-03	
Boron, total	2	MAC = 5000	1	µg/L	2016-06-02	2016-06-03	
Cadmium, total	0.034	MAC = 5	0.002	µg/L	2016-06-02	2016-06-03	
Calcium, total	16800	N/A	40	µg/L	2016-06-02	2016-06-03	
Chromium, total	0.9	MAC = 50	0.1	µg/L	2016-06-02	2016-06-03	
Cobalt, total	0.285	N/A	0.005	µg/L	2016-06-02	2016-06-03	
Copper, total	1.3	AO ≤ 1000	0.1	µg/L	2016-06-02	2016-06-03	
Iron, total	494	AO ≤ 300	2	µg/L	2016-06-02	2016-06-03	
Lead, total	0.17	MAC = 10	0.05	µg/L	2016-06-02	2016-06-03	
Lithium, total	1.02	N/A	0.05	µg/L	2016-06-02	2016-06-03	
Magnesium, total	1650	N/A	5.0	µg/L	2016-06-02	2016-06-03	
Manganese, total	12.0	AO ≤ 50	0.05	µg/L	2016-06-02	2016-06-03	
Mercury, total	< 0.005	MAC = 1	0.005	µg/L	2016-06-08	2016-06-08	
Molybdenum, total	1.12	N/A	0.01	µg/L	2016-06-02	2016-06-03	
Nickel, total	1.09	N/A	0.02	µg/L	2016-06-02	2016-06-03	
Phosphorus, total	25	N/A	10	µg/L	2016-06-02	2016-06-03	
Potassium, total	777	N/A	10	µg/L	2016-06-02	2016-06-03	
Selenium, total	0.9	MAC = 50	0.1	µg/L	2016-06-02	2016-06-03	

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Analyte	Result / Recovery	Standard / Guideline	MRL / Limits	Units	Prepared	Analyzed	Notes
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Sample ID: North Fork Cherry Creek (6052218-01) [Water] Sampled: 2016-05-29 12:00, Continued

F1, FILT, PRES

Total Recoverable Metals, Continued

Silicon, total	4200	N/A	50	µg/L	2016-06-02	2016-06-03	
Silver, total	< 0.01	N/A	0.01	µg/L	2016-06-02	2016-06-03	
Sodium, total	801	AO ≤ 200000	10	µg/L	2016-06-02	2016-06-03	
Strontium, total	81.9	N/A	0.1	µg/L	2016-06-02	2016-06-03	
Sulfur, total	1600	N/A	500	µg/L	2016-06-02	2016-06-03	
Tellurium, total	< 0.05	N/A	0.05	µg/L	2016-06-02	2016-06-03	
Thallium, total	0.007	N/A	0.004	µg/L	2016-06-02	2016-06-03	
Thorium, total	0.02	N/A	0.01	µg/L	2016-06-02	2016-06-03	
Tin, total	< 0.05	N/A	0.05	µg/L	2016-06-02	2016-06-03	
Titanium, total	21.2	N/A	0.2	µg/L	2016-06-02	2016-06-03	
Uranium, total	0.232	MAC = 20	0.001	µg/L	2016-06-02	2016-06-03	
Vanadium, total	1.3	N/A	0.2	µg/L	2016-06-02	2016-06-03	
Zinc, total	2	AO ≤ 5000	1	µg/L	2016-06-02	2016-06-03	
Zirconium, total	0.07	N/A	0.02	µg/L	2016-06-02	2016-06-03	

Microbiological Parameters

E. coli	5	MAC = None Detected	1	CFU/100 mL	N/A	2016-05-30	
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Sample ID: South Fork Cherry Creek (6052218-02) [Water] Sampled: 2016-05-29 11:25

F1, FILT, PRES

Anions

Chloride	0.56	AO ≤ 250	0.10	mg/L	N/A	2016-06-01	
Nitrate (as N)	0.107	MAC = 10	0.010	mg/L	N/A	2016-06-01	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	N/A	2016-06-01	
Sulfate	9.1	AO ≤ 500	1.0	mg/L	N/A	2016-06-01	

General Parameters

Ammonia, Total (as N)	< 0.020	N/A	0.020	mg/L	N/A	2016-06-04	
Conductivity (EC)	146	N/A	2	µS/cm	N/A	2016-06-04	
Nitrogen, Total Kjeldahl	0.10	N/A	0.05	mg/L	2016-06-01	2016-06-02	
pH	7.46	6.5-8.5	0.01	pH units	N/A	2016-06-04	HT2
Phosphorus, Total (as P)	0.009	N/A	0.002	mg/L	2016-06-02	2016-06-03	
Phosphorus, Total Dissolved	0.005	N/A	0.002	mg/L	2016-06-02	2016-06-03	
Turbidity	2.84	OG < 0.1	0.10	NTU	N/A	2016-05-30	

Calculated Parameters

Hardness, Total (as CaCO ₃)	78.7	N/A	0.1	mg/L	N/A	N/A	
Nitrate+Nitrite (as N)	0.107	N/A	0.010	mg/L	N/A	N/A	
Nitrogen, Total	0.208	N/A	0.050	mg/L	N/A	N/A	

Dissolved Metals

Aluminum, dissolved	5	N/A	1	µg/L	N/A	2016-06-03	
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Total Recoverable Metals

Aluminum, total	148	OG < 100	1	µg/L	2016-06-02	2016-06-03	
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Sample ID: South Fork Cherry Creek (6052218-02) [Water] Sampled: 2016-05-29 11:25, Continued

F1, FILT, PRES

Total Recoverable Metals, Continued

Antimony, total	0.11	MAC = 6	0.05	µg/L	2016-06-02	2016-06-03	
Arsenic, total	0.59	MAC = 10	0.05	µg/L	2016-06-02	2016-06-03	
Barium, total	14.2	MAC = 1000	0.1	µg/L	2016-06-02	2016-06-03	
Beryllium, total	< 0.01	N/A	0.01	µg/L	2016-06-02	2016-06-03	
Bismuth, total	< 0.01	N/A	0.01	µg/L	2016-06-02	2016-06-03	
Boron, total	2	MAC = 5000	1	µg/L	2016-06-02	2016-06-03	
Cadmium, total	0.031	MAC = 5	0.002	µg/L	2016-06-02	2016-06-03	
Calcium, total	26500	N/A	40	µg/L	2016-06-02	2016-06-03	
Chromium, total	0.1	MAC = 50	0.1	µg/L	2016-06-02	2016-06-03	
Cobalt, total	0.131	N/A	0.005	µg/L	2016-06-02	2016-06-03	
Copper, total	0.7	AO ≤ 1000	0.1	µg/L	2016-06-02	2016-06-03	
Iron, total	257	AO ≤ 300	2	µg/L	2016-06-02	2016-06-03	
Lead, total	0.14	MAC = 10	0.05	µg/L	2016-06-02	2016-06-03	
Lithium, total	1.08	N/A	0.05	µg/L	2016-06-02	2016-06-03	
Magnesium, total	3020	N/A	5.0	µg/L	2016-06-02	2016-06-03	
Manganese, total	8.56	AO ≤ 50	0.05	µg/L	2016-06-02	2016-06-03	
Mercury, total	< 0.005	MAC = 1	0.005	µg/L	2016-06-08	2016-06-08	
Molybdenum, total	1.19	N/A	0.01	µg/L	2016-06-02	2016-06-03	
Nickel, total	0.52	N/A	0.02	µg/L	2016-06-02	2016-06-03	
Phosphorus, total	< 10	N/A	10	µg/L	2016-06-02	2016-06-03	
Potassium, total	494	N/A	10	µg/L	2016-06-02	2016-06-03	
Selenium, total	1.2	MAC = 50	0.1	µg/L	2016-06-02	2016-06-03	
Silicon, total	4100	N/A	50	µg/L	2016-06-02	2016-06-03	
Silver, total	< 0.01	N/A	0.01	µg/L	2016-06-02	2016-06-03	
Sodium, total	1240	AO ≤ 200000	10	µg/L	2016-06-02	2016-06-03	
Strontium, total	137	N/A	0.1	µg/L	2016-06-02	2016-06-03	
Sulfur, total	2900	N/A	500	µg/L	2016-06-02	2016-06-03	
Tellurium, total	< 0.05	N/A	0.05	µg/L	2016-06-02	2016-06-03	
Thallium, total	< 0.004	N/A	0.004	µg/L	2016-06-02	2016-06-03	
Thorium, total	0.01	N/A	0.01	µg/L	2016-06-02	2016-06-03	
Tin, total	< 0.05	N/A	0.05	µg/L	2016-06-02	2016-06-03	
Titanium, total	7.4	N/A	0.2	µg/L	2016-06-02	2016-06-03	
Uranium, total	0.316	MAC = 20	0.001	µg/L	2016-06-02	2016-06-03	
Vanadium, total	0.6	N/A	0.2	µg/L	2016-06-02	2016-06-03	
Zinc, total	2	AO ≤ 5000	1	µg/L	2016-06-02	2016-06-03	
Zirconium, total	0.04	N/A	0.02	µg/L	2016-06-02	2016-06-03	

Microbiological Parameters

E. coli	3	MAC = None Detected	1	CFU/100 mL	N/A	2016-05-30	
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Sample ID: Cherry Creek at Hall (6052218-03) [Water] Sampled: 2016-05-29 11:05

F1, FILT, PRES

Anions

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Analyte	Result / Recovery	Standard / Guideline	MRL / Limits	Units	Prepared	Analyzed	Notes
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Sample ID: Cherry Creek at Hall (6052218-03) [Water] Sampled: 2016-05-29 11:05, Continued

F1, FILT,
PRES

Anions, Continued

Chloride	0.78	AO ≤ 250	0.10	mg/L	N/A	2016-06-01	
Nitrate (as N)	0.058	MAC = 10	0.010	mg/L	N/A	2016-06-01	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	N/A	2016-06-01	
Sulfate	8.3	AO ≤ 500	1.0	mg/L	N/A	2016-06-01	

General Parameters

Ammonia, Total (as N)	< 0.020	N/A	0.020	mg/L	N/A	2016-06-04	
Conductivity (EC)	136	N/A	2	µS/cm	N/A	2016-06-04	
Nitrogen, Total Kjeldahl	< 0.05	N/A	0.05	mg/L	2016-06-01	2016-06-02	
pH	7.47	6.5-8.5	0.01	pH units	N/A	2016-06-04	HT2
Phosphorus, Total (as P)	0.010	N/A	0.002	mg/L	2016-06-02	2016-06-03	
Phosphorus, Total Dissolved	0.007	N/A	0.002	mg/L	2016-06-02	2016-06-03	
Turbidity	3.79	OG < 0.1	0.10	NTU	N/A	2016-05-30	

Calculated Parameters

Hardness, Total (as CaCO3)	73.0	N/A	0.1	mg/L	N/A	N/A	
Nitrate+Nitrite (as N)	0.058	N/A	0.010	mg/L	N/A	N/A	
Nitrogen, Total	0.058	N/A	0.050	mg/L	N/A	N/A	

Dissolved Metals

Aluminum, dissolved	14	N/A	1	µg/L	N/A	2016-06-03	
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Total Recoverable Metals

Aluminum, total	242	OG < 100	1	µg/L	2016-06-02	2016-06-03	
Antimony, total	0.07	MAC = 6	0.05	µg/L	2016-06-02	2016-06-03	
Arsenic, total	0.42	MAC = 10	0.05	µg/L	2016-06-02	2016-06-03	
Barium, total	14.5	MAC = 1000	0.1	µg/L	2016-06-02	2016-06-03	
Beryllium, total	0.01	N/A	0.01	µg/L	2016-06-02	2016-06-03	
Bismuth, total	< 0.01	N/A	0.01	µg/L	2016-06-02	2016-06-03	
Boron, total	2	MAC = 5000	1	µg/L	2016-06-02	2016-06-03	
Cadmium, total	0.031	MAC = 5	0.002	µg/L	2016-06-02	2016-06-03	
Calcium, total	23900	N/A	40	µg/L	2016-06-02	2016-06-03	
Chromium, total	0.4	MAC = 50	0.1	µg/L	2016-06-02	2016-06-03	
Cobalt, total	0.193	N/A	0.005	µg/L	2016-06-02	2016-06-03	
Copper, total	0.9	AO ≤ 1000	0.1	µg/L	2016-06-02	2016-06-03	
Iron, total	370	AO ≤ 300	2	µg/L	2016-06-02	2016-06-03	
Lead, total	0.15	MAC = 10	0.05	µg/L	2016-06-02	2016-06-03	
Lithium, total	1.12	N/A	0.05	µg/L	2016-06-02	2016-06-03	
Magnesium, total	3240	N/A	5.0	µg/L	2016-06-02	2016-06-03	
Manganese, total	10.3	AO ≤ 50	0.05	µg/L	2016-06-02	2016-06-03	
Mercury, total	< 0.005	MAC = 1	0.005	µg/L	2016-06-08	2016-06-08	
Molybdenum, total	1.13	N/A	0.01	µg/L	2016-06-02	2016-06-03	
Nickel, total	0.77	N/A	0.02	µg/L	2016-06-02	2016-06-03	
Phosphorus, total	18	N/A	10	µg/L	2016-06-02	2016-06-03	
Potassium, total	662	N/A	10	µg/L	2016-06-02	2016-06-03	
Selenium, total	1.1	MAC = 50	0.1	µg/L	2016-06-02	2016-06-03	

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Sample ID: Cherry Creek at Hall (6052218-03) [Water] Sampled: 2016-05-29 11:05, Continued

F1, FILT,
PRES

Total Recoverable Metals, Continued

Silicon, total	4600	N/A	50	µg/L	2016-06-02	2016-06-03	
Silver, total	< 0.01	N/A	0.01	µg/L	2016-06-02	2016-06-03	
Sodium, total	1390	AO ≤ 200000	10	µg/L	2016-06-02	2016-06-03	
Strontium, total	127	N/A	0.1	µg/L	2016-06-02	2016-06-03	
Sulfur, total	2400	N/A	500	µg/L	2016-06-02	2016-06-03	
Tellurium, total	< 0.05	N/A	0.05	µg/L	2016-06-02	2016-06-03	
Thallium, total	0.004	N/A	0.004	µg/L	2016-06-02	2016-06-03	
Thorium, total	0.02	N/A	0.01	µg/L	2016-06-02	2016-06-03	
Tin, total	< 0.05	N/A	0.05	µg/L	2016-06-02	2016-06-03	
Titanium, total	13.1	N/A	0.2	µg/L	2016-06-02	2016-06-03	
Uranium, total	0.299	MAC = 20	0.001	µg/L	2016-06-02	2016-06-03	
Vanadium, total	0.9	N/A	0.2	µg/L	2016-06-02	2016-06-03	
Zinc, total	2	AO ≤ 5000	1	µg/L	2016-06-02	2016-06-03	
Zirconium, total	0.26	N/A	0.02	µg/L	2016-06-02	2016-06-03	

Microbiological Parameters

E. coli	10	MAC = None Detected	1	CFU/100 mL	N/A	2016-05-30	
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Sample ID: Shuswap River Picnic Site (6052218-04) [Water] Sampled: 2016-05-29 10:15

F1, FILT,
PRES

Anions

Chloride	0.22	AO ≤ 250	0.10	mg/L	N/A	2016-06-01	
Nitrate (as N)	0.064	MAC = 10	0.010	mg/L	N/A	2016-06-01	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	N/A	2016-06-01	
Sulfate	4.3	AO ≤ 500	1.0	mg/L	N/A	2016-06-01	

General Parameters

Ammonia, Total (as N)	< 0.020	N/A	0.020	mg/L	N/A	2016-06-04	
Conductivity (EC)	75	N/A	2	µS/cm	N/A	2016-06-04	
Nitrogen, Total Kjeldahl	0.10	N/A	0.05	mg/L	2016-06-01	2016-06-02	
pH	7.10	6.5-8.5	0.01	pH units	N/A	2016-06-04	HT2
Phosphorus, Total (as P)	0.007	N/A	0.002	mg/L	2016-06-02	2016-06-03	
Phosphorus, Total Dissolved	< 0.002	N/A	0.002	mg/L	2016-06-02	2016-06-03	
Turbidity	1.43	OG < 0.1	0.10	NTU	N/A	2016-05-30	

Calculated Parameters

Hardness, Total (as CaCO ₃)	37.0	N/A	0.1	mg/L	N/A	N/A	
Nitrate+Nitrite (as N)	0.064	N/A	0.010	mg/L	N/A	N/A	
Nitrogen, Total	0.162	N/A	0.050	mg/L	N/A	N/A	

Dissolved Metals

Aluminum, dissolved	20	N/A	1	µg/L	N/A	2016-06-03	
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Total Recoverable Metals

Aluminum, total	102	OG < 100	1	µg/L	2016-06-02	2016-06-03	
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Sample ID: Shuswap River Picnic Site (6052218-04) [Water] Sampled: 2016-05-29 10:15, Continued

F1, FILT, PRES

Total Recoverable Metals, Continued

Antimony, total	< 0.05	MAC = 6	0.05	µg/L	2016-06-02	2016-06-03	
Arsenic, total	0.15	MAC = 10	0.05	µg/L	2016-06-02	2016-06-03	
Barium, total	7.5	MAC = 1000	0.1	µg/L	2016-06-02	2016-06-03	
Beryllium, total	< 0.01	N/A	0.01	µg/L	2016-06-02	2016-06-03	
Bismuth, total	< 0.01	N/A	0.01	µg/L	2016-06-02	2016-06-03	
Boron, total	2	MAC = 5000	1	µg/L	2016-06-02	2016-06-03	
Cadmium, total	0.010	MAC = 5	0.002	µg/L	2016-06-02	2016-06-03	
Calcium, total	12600	N/A	40	µg/L	2016-06-02	2016-06-03	
Chromium, total	< 0.1	MAC = 50	0.1	µg/L	2016-06-02	2016-06-03	
Cobalt, total	0.084	N/A	0.005	µg/L	2016-06-02	2016-06-03	
Copper, total	0.7	AO ≤ 1000	0.1	µg/L	2016-06-02	2016-06-03	
Iron, total	145	AO ≤ 300	2	µg/L	2016-06-02	2016-06-03	
Lead, total	0.07	MAC = 10	0.05	µg/L	2016-06-02	2016-06-03	
Lithium, total	0.56	N/A	0.05	µg/L	2016-06-02	2016-06-03	
Magnesium, total	1360	N/A	5.0	µg/L	2016-06-02	2016-06-03	
Manganese, total	5.96	AO ≤ 50	0.05	µg/L	2016-06-02	2016-06-03	
Mercury, total	< 0.005	MAC = 1	0.005	µg/L	2016-06-08	2016-06-08	
Molybdenum, total	0.59	N/A	0.01	µg/L	2016-06-02	2016-06-03	
Nickel, total	0.45	N/A	0.02	µg/L	2016-06-02	2016-06-03	
Phosphorus, total	< 10	N/A	10	µg/L	2016-06-02	2016-06-03	
Potassium, total	634	N/A	10	µg/L	2016-06-02	2016-06-03	
Selenium, total	0.4	MAC = 50	0.1	µg/L	2016-06-02	2016-06-03	
Silicon, total	3300	N/A	50	µg/L	2016-06-02	2016-06-03	
Silver, total	< 0.01	N/A	0.01	µg/L	2016-06-02	2016-06-03	
Sodium, total	859	AO ≤ 200000	10	µg/L	2016-06-02	2016-06-03	
Strontium, total	52.4	N/A	0.1	µg/L	2016-06-02	2016-06-03	
Sulfur, total	1300	N/A	500	µg/L	2016-06-02	2016-06-03	
Tellurium, total	< 0.05	N/A	0.05	µg/L	2016-06-02	2016-06-03	
Thallium, total	< 0.004	N/A	0.004	µg/L	2016-06-02	2016-06-03	
Thorium, total	0.01	N/A	0.01	µg/L	2016-06-02	2016-06-03	
Tin, total	< 0.05	N/A	0.05	µg/L	2016-06-02	2016-06-03	
Titanium, total	7.2	N/A	0.2	µg/L	2016-06-02	2016-06-03	
Uranium, total	0.266	MAC = 20	0.001	µg/L	2016-06-02	2016-06-03	
Vanadium, total	0.5	N/A	0.2	µg/L	2016-06-02	2016-06-03	
Zinc, total	1	AO ≤ 5000	1	µg/L	2016-06-02	2016-06-03	
Zirconium, total	0.07	N/A	0.02	µg/L	2016-06-02	2016-06-03	

Microbiological Parameters

E. coli	5	MAC = None Detected	1	CFU/100 mL	N/A	2016-05-30	
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Sample ID: Ferry Creek (6052218-05) [Water] Sampled: 2016-05-29 10:40

F1, FILT, PRES

Anions

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Sample ID: Ferry Creek (6052218-05) [Water] Sampled: 2016-05-29 10:40, Continued

F1, FILT, PRES

Anions, Continued

Chloride	1.08	AO ≤ 250	0.10	mg/L	N/A	2016-06-01	
Nitrate (as N)	< 0.010	MAC = 10	0.010	mg/L	N/A	2016-06-01	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	N/A	2016-06-01	
Sulfate	5.5	AO ≤ 500	1.0	mg/L	N/A	2016-06-01	

General Parameters

Ammonia, Total (as N)	< 0.020	N/A	0.020	mg/L	N/A	2016-06-04	
Conductivity (EC)	82	N/A	2	µS/cm	N/A	2016-06-04	
Nitrogen, Total Kjeldahl	0.16	N/A	0.05	mg/L	2016-06-01	2016-06-02	
pH	7.12	6.5-8.5	0.01	pH units	N/A	2016-06-04	HT2
Phosphorus, Total (as P)	0.015	N/A	0.002	mg/L	2016-06-02	2016-06-03	
Phosphorus, Total Dissolved	0.011	N/A	0.002	mg/L	2016-06-02	2016-06-03	
Turbidity	1.63	OG < 0.1	0.10	NTU	N/A	2016-05-30	

Calculated Parameters

Hardness, Total (as CaCO ₃)	40.0	N/A	0.1	mg/L	N/A	N/A	
Nitrate+Nitrite (as N)	< 0.010	N/A	0.010	mg/L	N/A	N/A	
Nitrogen, Total	0.162	N/A	0.050	mg/L	N/A	N/A	

Dissolved Metals

Aluminum, dissolved	56	N/A	1	µg/L	N/A	2016-06-03	
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Total Recoverable Metals

Aluminum, total	182	OG < 100	1	µg/L	2016-06-02	2016-06-03	
Antimony, total	< 0.05	MAC = 6	0.05	µg/L	2016-06-02	2016-06-03	
Arsenic, total	0.33	MAC = 10	0.05	µg/L	2016-06-02	2016-06-03	
Barium, total	8.1	MAC = 1000	0.1	µg/L	2016-06-02	2016-06-03	
Beryllium, total	0.01	N/A	0.01	µg/L	2016-06-02	2016-06-03	
Bismuth, total	< 0.01	N/A	0.01	µg/L	2016-06-02	2016-06-03	
Boron, total	2	MAC = 5000	1	µg/L	2016-06-02	2016-06-03	
Cadmium, total	0.006	MAC = 5	0.002	µg/L	2016-06-02	2016-06-03	
Calcium, total	11800	N/A	40	µg/L	2016-06-02	2016-06-03	
Chromium, total	< 0.1	MAC = 50	0.1	µg/L	2016-06-02	2016-06-03	
Cobalt, total	0.126	N/A	0.005	µg/L	2016-06-02	2016-06-03	
Copper, total	0.7	AO ≤ 1000	0.1	µg/L	2016-06-02	2016-06-03	
Iron, total	273	AO ≤ 300	2	µg/L	2016-06-02	2016-06-03	
Lead, total	0.06	MAC = 10	0.05	µg/L	2016-06-02	2016-06-03	
Lithium, total	1.19	N/A	0.05	µg/L	2016-06-02	2016-06-03	
Magnesium, total	2560	N/A	5.0	µg/L	2016-06-02	2016-06-03	
Manganese, total	7.28	AO ≤ 50	0.05	µg/L	2016-06-02	2016-06-03	
Mercury, total	< 0.005	MAC = 1	0.005	µg/L	2016-06-08	2016-06-08	
Molybdenum, total	0.46	N/A	0.01	µg/L	2016-06-02	2016-06-03	
Nickel, total	0.42	N/A	0.02	µg/L	2016-06-02	2016-06-03	
Phosphorus, total	15	N/A	10	µg/L	2016-06-02	2016-06-03	
Potassium, total	865	N/A	10	µg/L	2016-06-02	2016-06-03	
Selenium, total	0.2	MAC = 50	0.1	µg/L	2016-06-02	2016-06-03	

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Sample ID: Ferry Creek (6052218-05) [Water] Sampled: 2016-05-29 10:40, Continued

F1, FILT, PRES

Total Recoverable Metals, Continued

Silicon, total	6600	N/A	50	µg/L	2016-06-02	2016-06-03	
Silver, total	< 0.01	N/A	0.01	µg/L	2016-06-02	2016-06-03	
Sodium, total	2120	AO ≤ 200000	10	µg/L	2016-06-02	2016-06-03	
Strontium, total	70.4	N/A	0.1	µg/L	2016-06-02	2016-06-03	
Sulfur, total	1700	N/A	500	µg/L	2016-06-02	2016-06-03	
Tellurium, total	< 0.05	N/A	0.05	µg/L	2016-06-02	2016-06-03	
Thallium, total	< 0.004	N/A	0.004	µg/L	2016-06-02	2016-06-03	
Thorium, total	0.03	N/A	0.01	µg/L	2016-06-02	2016-06-03	
Tin, total	< 0.05	N/A	0.05	µg/L	2016-06-02	2016-06-03	
Titanium, total	11.2	N/A	0.2	µg/L	2016-06-02	2016-06-03	
Uranium, total	0.204	MAC = 20	0.001	µg/L	2016-06-02	2016-06-03	
Vanadium, total	0.7	N/A	0.2	µg/L	2016-06-02	2016-06-03	
Zinc, total	1	AO ≤ 5000	1	µg/L	2016-06-02	2016-06-03	
Zirconium, total	0.39	N/A	0.02	µg/L	2016-06-02	2016-06-03	

Microbiological Parameters

E. coli	3	MAC = None Detected	1	CFU/100 mL	N/A	2016-05-30	
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Sample / Analysis Qualifiers:

F1	The sample was not field-filtered and was therefore filtered through a 0.45 µm membrane in the laboratory and preserved with HNO3 prior to analysis for dissolved metals.
FILT	Sample has been filtered for Dissolved Nutrients in the laboratory.
HT2	The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.
PRES	Sample has been preserved for Total and Dissolved Nutrients in the laboratory and the holding time has been extended.