

SAMPLE ANALYTICAL DATA

REPORTED TO PROJECT Regional District of Thompson Nicola
Evergreen CWS

WORK ORDER REPORTED 5061394
Jul-06-15

Analyte	Result / Recovery	Standard / Guideline	MRL / Units Limits	Prepared	Analyzed	Notes
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Sample ID: Evergreen CWS (5061394-01) [Water] Sampled: Jun-17-15 11:50, Continued PRES

Total Recoverable Metals, Continued

Silver, total	< 0.0005	N/A	0.0005 mg/L	Jun-23-15	Jun-24-15	
Sodium, total	44.9	AO ≤ 200	0.2 mg/L	Jun-23-15	Jun-24-15	
Strontium, total	0.67	N/A	0.01 mg/L	Jun-23-15	Jun-24-15	
Sulfur, total	100	N/A	10 mg/L	Jun-23-15	Jun-24-15	
Tellurium, total	< 0.002	N/A	0.002 mg/L	Jun-23-15	Jun-24-15	
Thallium, total	< 0.0002	N/A	0.0002 mg/L	Jun-23-15	Jun-24-15	
Thorium, total	< 0.001	N/A	0.001 mg/L	Jun-23-15	Jun-24-15	
Tin, total	< 0.002	N/A	0.002 mg/L	Jun-23-15	Jun-24-15	
Titanium, total	< 0.05	N/A	0.05 mg/L	Jun-23-15	Jun-24-15	
Uranium, total	0.0109	MAC = 0.02	0.0002 mg/L	Jun-23-15	Jun-24-15	
Vanadium, total	< 0.01	N/A	0.01 mg/L	Jun-23-15	Jun-24-15	
Zinc, total	< 0.04	AO ≤ 5	0.04 mg/L	Jun-23-15	Jun-24-15	
Zirconium, total	< 0.001	N/A	0.001 mg/L	Jun-23-15	Jun-24-15	

Volatile Organic Compounds (VOC)

Bromodichloromethane	0.003	N/A	0.001 mg/L	N/A	Jun-24-15	
Bromoform	< 0.001	N/A	0.001 mg/L	N/A	Jun-24-15	
Chloroform	0.005	N/A	0.001 mg/L	N/A	Jun-24-15	
Dibromochloromethane	0.002	N/A	0.001 mg/L	N/A	Jun-24-15	
Surrogate: Toluene-d8	82		70-130 %	N/A	Jun-24-15	
Surrogate: 4-Bromofluorobenzene	103		70-130 %	N/A	Jun-24-15	

Sample / Analysis Qualifiers:

PRES Sample has been preserved for NH3 in the laboratory and the holding time has been extended.

ANALYSIS INFORMATION

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Analysis Description	Method Reference	Technique	Location
Alkalinity in Water (Speciated)	APHA 2320 B	Titration with H2SO4 to pH 4.5	Kelowna
Anions in Water by IC	APHA 4110 B	Ion Chromatography with Chemical Suppression of Eluent Conductivity	Kelowna
Colour, True	APHA 2120 C	Spectrophotometry (456 nm)	Kelowna
Conductivity in Water	APHA 2510 B	Conductivity Meter	Kelowna
Hardness (as CaCO3)	APHA 2340 B	Calculation	N/A
Total Ammonia-N in Water	APHA 4500-NH3 G*	Automated Colorimetry (Phenate)	Kelowna
Total Dissolved Solids (Gravimetric)	APHA 2540 C*	Gravimetry (Dried at 103-105C)	Kelowna
Total Recoverable Metals	APHA 3030E* / APHA 3125 B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	Richmond
Transmissivity at 254 nm	APHA 5910 B	Ultraviolet Absorption	Kelowna
Trihalomethanes	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
CU Colour Units (referenced against a platinum cobalt standard)
mg/L Milligrams 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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REPORTED Jul-06-15

Analyte	Result / Recovery	Standard / Guideline	MRL / Units Limits	Prepared	Analyzed	Notes
Sample ID: Evergreen CWS (5061394-01) [Water] Sampled: Jun-17-15 11:50						
PRES						
Anions						
Chloride	9.09	AO ≤ 250	0.10 mg/L	N/A	Jun-20-15	
Fluoride	0.28	MAC = 1.5	0.10 mg/L	N/A	Jun-20-15	
Nitrate as N	0.467	MAC = 10	0.010 mg/L	N/A	Jun-20-15	
Nitrite as N	< 0.010	MAC = 1	0.010 mg/L	N/A	Jun-20-15	
Sulfate	255	AO ≤ 500	1.0 mg/L	N/A	Jun-20-15	
General Parameters						
Alkalinity, Total as CaCO3	336	N/A	1 mg/L	N/A	Jun-19-15	
Alkalinity, Phenolphthalein as CaCO3	< 1	N/A	1 mg/L	N/A	Jun-19-15	
Alkalinity, Bicarbonate as CaCO3	336	N/A	1 mg/L	N/A	Jun-19-15	
Alkalinity, Carbonate as CaCO3	< 1	N/A	1 mg/L	N/A	Jun-19-15	
Alkalinity, Hydroxide as CaCO3	< 1	N/A	1 mg/L	N/A	Jun-19-15	
Colour, True	< 5	AO ≤ 15	5 CU	N/A	Jun-19-15	
Conductivity (EC)	1030	N/A	2 µS/cm	N/A	Jun-19-15	
Ammonia as N, Total	< 0.020	N/A	0.020 mg/L	N/A	Jun-23-15	
Solids, Total Dissolved	683	AO ≤ 500	10 mg/L	N/A	Jun-22-15	
UV Transmittance @ 254nm	94.1	N/A	0.1 % T	N/A	Jun-19-15	
Calculated Parameters						
Total Trihalomethanes	0.010	MAC = 0.1	0.004 mg/L	N/A	N/A	
Hardness, Total (Total as CaCO3)	565	N/A	5.0 mg/L	N/A	N/A	
Nitrate+Nitrite as N	0.467	N/A	0.020 mg/L	N/A	N/A	
Total Recoverable Metals						
Aluminum, total	< 0.05	OG < 0.1	0.05 mg/L	Jun-23-15	Jun-24-15	
Antimony, total	< 0.001	MAC = 0.006	0.001 mg/L	Jun-23-15	Jun-24-15	
Arsenic, total	< 0.005	MAC = 0.01	0.005 mg/L	Jun-23-15	Jun-24-15	
Barium, total	< 0.05	MAC = 1	0.05 mg/L	Jun-23-15	Jun-24-15	
Beryllium, total	< 0.001	N/A	0.001 mg/L	Jun-23-15	Jun-24-15	
Bismuth, total	< 0.001	N/A	0.001 mg/L	Jun-23-15	Jun-24-15	
Boron, total	< 0.04	MAC = 5	0.04 mg/L	Jun-23-15	Jun-24-15	
Cadmium, total	< 0.0001	MAC = 0.005	0.0001 mg/L	Jun-23-15	Jun-24-15	
Calcium, total	85.1	N/A	2.0 mg/L	Jun-23-15	Jun-24-15	
Chromium, total	< 0.005	MAC = 0.05	0.005 mg/L	Jun-23-15	Jun-24-15	
Cobalt, total	< 0.0005	N/A	0.0005 mg/L	Jun-23-15	Jun-24-15	
Copper, total	0.005	AO ≤ 1	0.002 mg/L	Jun-23-15	Jun-24-15	
Iron, total	< 0.10	AO ≤ 0.3	0.10 mg/L	Jun-23-15	Jun-24-15	
Lead, total	0.001	MAC = 0.01	0.001 mg/L	Jun-23-15	Jun-24-15	
Lithium, total	0.008	N/A	0.001 mg/L	Jun-23-15	Jun-24-15	
Magnesium, total	85.6	N/A	0.1 mg/L	Jun-23-15	Jun-24-15	
Manganese, total	< 0.002	AO ≤ 0.05	0.002 mg/L	Jun-23-15	Jun-24-15	
Molybdenum, total	0.004	N/A	0.001 mg/L	Jun-23-15	Jun-24-15	
Nickel, total	< 0.002	N/A	0.002 mg/L	Jun-23-15	Jun-24-15	
Phosphorus, total	< 0.2	N/A	0.2 mg/L	Jun-23-15	Jun-24-15	
Potassium, total	4.0	N/A	0.2 mg/L	Jun-23-15	Jun-24-15	
Selenium, total	0.007	MAC = 0.05	0.005 mg/L	Jun-23-15	Jun-24-15	
Silicon, total	9	N/A	5 mg/L	Jun-23-15	Jun-24-15	

CERTIFICATE OF ANALYSIS

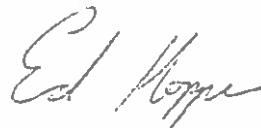
REPORTED TO	Regional District of Thompson Nicola 300 - 465 Victoria Street Kamloops, BC V2C 2A9	TEL	(250) 377-8673
		FAX	(250) 374-6489
ATTENTION	Shawn Kratchmer	WORK ORDER	5061394
PO NUMBER	26415	RECEIVED / TEMP	Jun-18-15 09:40 / 15°C
PROJECT	Evergreen CWS	REPORTED	Jul-06-15
PROJECT INFO		COC NUMBER	B15932

5540 17

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: **Ed Hoppe, B.Sc., P.Chem.**
Division Manager, Kelowna

Please contact CARO if more information is needed or to provide feedback on our services.

Locations:

#110 4011 Viking Way
Richmond, BC V6V 2K9
Tel: 604-279-1499 Fax: 604-279-1599

#102 3677 Highway 97N
Kelowna, BC V1X 5C3
Tel: 250-765-9646 Fax: 250-765-3893

17225 109 Avenue
Edmonton, AB T5S 1H7
Tel: 780-489-9100 Fax: 780-489-9700

www.caro.ca