

CERTIFICATE OF ANALYSIS



CLIENT **Cherry Ridge Management**
37 Hollingsworth Rd
Cherryville BC TEL 1-250-547-9091
V0E 2G2 FAX -

ATTENTION **Melanie Staker**

RECEIVED / TEMP Apr-11-11 09:20 / 6.0 °C **WORK ORDER** K1D0280
REPORTED Apr-14-11 **PROJECT** Creek Monitoring
COC #(s) 35539

General Comments:

CARO Analytical Services employs methods which are based on those found in "Standard Methods for the Examination of Water and Wastewater", 21st Edition, 2005, published by the American Public Health Association (APHA); US EPA protocols found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846", 3rd Edition; protocols published by the British Columbia Ministry of Environment (BCMOE); and/or CCME Canada-wide Standard Reference methods.

Methods not described in these publications are conducted according to procedures accepted by appropriate regulatory agencies, and/or are done 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 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.

- All solids results are reported on a dry weight basis unless otherwise noted
- Units:
 - mg/kg = milligrams per kilogram, equivalent to parts per million (ppm)
 - mg/L = milligrams per litre, equivalent to parts per million (ppm)
 - ug/L = micrograms per litre, equivalent to parts per billion (ppb)
 - ug/g = micrograms per gram, equivalent to parts per million (ppm)
 - ug/m3 = micrograms per cubic meter of air
- "RDL" Reported detection limit
- "<" Less than reported detection limit
- "AO" Aesthetic objective
- "MAC" Maximum acceptable concentration (health-related guideline)
- "LAB" RMD = Richmond location, KEL = Kelowna location, EDM = Edmonton location, SUB = Subcontracted

Please contact CARO if more information is needed.

CARO Analytical Services

Final Review Per: **Jennifer Shanko, ASCT**
Administration Coordinator

SAMPLE DATA



CLIENT Cherry Ridge Management
PROJECT Creek Monitoring

WORK ORDER # K1D0280
REPORTED Apr-14-11

Analyte	Result	RDL	Units	Analyzed	Method (mod. from)	Lab	Notes
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General Parameters

North Fork Cherry Creek (K1D0280-01) Matrix: Water Sampled: Apr-10-11 14:00

Nitrogen, Ammonia as N	< 0.02	0.02	mg/L	Apr-13-11	APHA 4500-NH3 G	KEL	
Nitrogen, Nitrate+Nitrite as N	0.03	0.01	mg/L	Apr-12-11	Calc	KEL	
Nitrogen, Nitrate as N	0.03	0.01	mg/L	Apr-12-11	APHA 4110 B	KEL	
Nitrogen, Nitrite as N	< 0.01	0.01	mg/L	Apr-12-11	APHA 4110 B	KEL	
Nitrogen, Total Kjeldahl	0.06	0.05	mg/L	Apr-12-11	EPA 351.2	KEL	
Nitrogen, Total	0.09	0.05	mg/L	Apr-12-11	Calc	KEL	
Phosphorus, Total	0.03	0.01	mg/L	Apr-12-11	EPA 351.2	KEL	
Phosphorus, Dissolved	0.03	0.01	mg/L	Apr-13-11	EPA 351.2	KEL	
Turbidity	0.6	0.1	NTU	Apr-13-11	APHA 2130 B	KEL	

South Fork Cherry Creek (K1D0280-02) Matrix: Water Sampled: Apr-10-11 15:05

Nitrogen, Ammonia as N	< 0.02	0.02	mg/L	Apr-13-11	APHA 4500-NH3 G	KEL	
Nitrogen, Nitrate+Nitrite as N	0.06	0.01	mg/L	Apr-12-11	Calc	KEL	
Nitrogen, Nitrate as N	0.06	0.01	mg/L	Apr-12-11	APHA 4110 B	KEL	
Nitrogen, Nitrite as N	< 0.01	0.01	mg/L	Apr-12-11	APHA 4110 B	KEL	
Nitrogen, Total Kjeldahl	0.12	0.05	mg/L	Apr-12-11	EPA 351.2	KEL	
Nitrogen, Total	0.18	0.05	mg/L	Apr-12-11	Calc	KEL	
Phosphorus, Total	0.03	0.01	mg/L	Apr-12-11	EPA 351.2	KEL	
Phosphorus, Dissolved	0.03	0.01	mg/L	Apr-13-11	EPA 351.2	KEL	
Turbidity	1.1	0.1	NTU	Apr-13-11	APHA 2130 B	KEL	

North Fork At Junction (K1D0280-03) Matrix: Water Sampled: Apr-10-11 14:35

Nitrogen, Ammonia as N	< 0.02	0.02	mg/L	Apr-13-11	APHA 4500-NH3 G	KEL	
Nitrogen, Nitrate+Nitrite as N	0.05	0.01	mg/L	Apr-12-11	Calc	KEL	
Nitrogen, Nitrate as N	0.05	0.01	mg/L	Apr-12-11	APHA 4110 B	KEL	
Nitrogen, Nitrite as N	< 0.01	0.01	mg/L	Apr-12-11	APHA 4110 B	KEL	
Nitrogen, Total Kjeldahl	0.08	0.05	mg/L	Apr-12-11	EPA 351.2	KEL	
Nitrogen, Total	0.13	0.05	mg/L	Apr-12-11	Calc	KEL	
Phosphorus, Total	0.03	0.01	mg/L	Apr-12-11	EPA 351.2	KEL	
Phosphorus, Dissolved	0.03	0.01	mg/L	Apr-13-11	EPA 351.2	KEL	
Turbidity	0.6	0.1	NTU	Apr-13-11	APHA 2130 B	KEL	

South Fork at Junction (K1D0280-04) Matrix: Water Sampled: Apr-10-11 14:40

Nitrogen, Ammonia as N	< 0.02	0.02	mg/L	Apr-13-11	APHA 4500-NH3 G	KEL	
Nitrogen, Nitrate+Nitrite as N	0.03	0.01	mg/L	Apr-12-11	Calc	KEL	
Nitrogen, Nitrate as N	0.03	0.01	mg/L	Apr-12-11	APHA 4110 B	KEL	
Nitrogen, Nitrite as N	< 0.01	0.01	mg/L	Apr-12-11	APHA 4110 B	KEL	
Nitrogen, Total Kjeldahl	< 0.05	0.05	mg/L	Apr-12-11	EPA 351.2	KEL	
Nitrogen, Total	< 0.05	0.05	mg/L	Apr-12-11	Calc	KEL	
Phosphorus, Total	0.02	0.01	mg/L	Apr-12-11	EPA 351.2	KEL	
Phosphorus, Dissolved	0.03	0.01	mg/L	Apr-13-11	EPA 351.2	KEL	
Turbidity	0.6	0.1	NTU	Apr-13-11	APHA 2130 B	KEL	

Shuswap River Picnic Site (K1D0280-05) Matrix: Water Sampled: Apr-10-11 09:25

Nitrogen, Ammonia as N	< 0.02	0.02	mg/L	Apr-13-11	APHA 4500-NH3 G	KEL	
Nitrogen, Nitrate+Nitrite as N	0.07	0.01	mg/L	Apr-12-11	Calc	KEL	

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Analyte	Result	RDL	Units	Analyzed	Method (mod. from)	Lab	Notes
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General Parameters, Continued

Shuswap River Picnic Site (K1D0280-05) Matrix: Water Sampled: Apr-10-11 09:25, Continued

Nitrogen, Nitrate as N	0.07	0.01	mg/L	Apr-12-11	APHA 4110 B	KEL	
Nitrogen, Nitrite as N	< 0.01	0.01	mg/L	Apr-12-11	APHA 4110 B	KEL	
Nitrogen, Total Kjeldahl	< 0.05	0.05	mg/L	Apr-12-11	EPA 351.2	KEL	
Nitrogen, Total	0.07	0.05	mg/L	Apr-12-11	Calc	KEL	
Phosphorus, Total	0.02	0.01	mg/L	Apr-12-11	EPA 351.2	KEL	
Phosphorus, Dissolved	0.02	0.01	mg/L	Apr-13-11	EPA 351.2	KEL	
Turbidity	0.3	0.1	NTU	Apr-13-11	APHA 2130 B	KEL	

Ferry Creek (K1D0280-06) Matrix: Water Sampled: Apr-10-11 09:50

Nitrogen, Ammonia as N	< 0.02	0.02	mg/L	Apr-13-11	APHA 4500-NH3 G	KEL	
Nitrogen, Nitrate+Nitrite as N	< 0.01	0.01	mg/L	Apr-12-11	Calc	KEL	
Nitrogen, Nitrate as N	< 0.01	0.01	mg/L	Apr-12-11	APHA 4110 B	KEL	
Nitrogen, Nitrite as N	< 0.01	0.01	mg/L	Apr-12-11	APHA 4110 B	KEL	
Nitrogen, Total Kjeldahl	0.19	0.05	mg/L	Apr-12-11	EPA 351.2	KEL	
Nitrogen, Total	0.19	0.05	mg/L	Apr-12-11	Calc	KEL	
Phosphorus, Total	0.09	0.01	mg/L	Apr-12-11	EPA 351.2	KEL	
Phosphorus, Dissolved	0.01	0.01	mg/L	Apr-13-11	EPA 351.2	KEL	
Turbidity	0.2	0.1	NTU	Apr-13-11	APHA 2130 B	KEL	

Shunter Creek (K1D0280-07) Matrix: Water Sampled: Apr-10-11 10:20

Nitrogen, Ammonia as N	< 0.02	0.02	mg/L	Apr-13-11	APHA 4500-NH3 G	KEL	
Nitrogen, Nitrate+Nitrite as N	< 0.01	0.01	mg/L	Apr-12-11	Calc	KEL	
Nitrogen, Nitrate as N	< 0.01	0.01	mg/L	Apr-12-11	APHA 4110 B	KEL	
Nitrogen, Nitrite as N	< 0.01	0.01	mg/L	Apr-12-11	APHA 4110 B	KEL	
Nitrogen, Total Kjeldahl	0.08	0.05	mg/L	Apr-12-11	EPA 351.2	KEL	
Nitrogen, Total	0.08	0.05	mg/L	Apr-12-11	Calc	KEL	
Phosphorus, Total	0.04	0.01	mg/L	Apr-12-11	EPA 351.2	KEL	
Phosphorus, Dissolved	0.01	0.01	mg/L	Apr-13-11	EPA 351.2	KEL	
Turbidity	0.1	0.1	NTU	Apr-13-11	APHA 2130 B	KEL	

Microbiological Parameters

North Fork Cherry Creek (K1D0280-01) Matrix: Water Sampled: Apr-10-11 14:00

E. coli	< 1	1	CFU/100mL	Apr-11-11	APHA 9222	KEL	
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South Fork Cherry Creek (K1D0280-02) Matrix: Water Sampled: Apr-10-11 15:05

E. coli	1	1	CFU/100mL	Apr-11-11	APHA 9222	KEL	
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North Fork At Junction (K1D0280-03) Matrix: Water Sampled: Apr-10-11 14:35

E. coli	< 1	1	CFU/100mL	Apr-11-11	APHA 9222	KEL	
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South Fork at Junction (K1D0280-04) Matrix: Water Sampled: Apr-10-11 14:40

E. coli	< 1	1	CFU/100mL	Apr-11-11	APHA 9222	KEL	
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Shuswap River Picnic Site (K1D0280-05) Matrix: Water Sampled: Apr-10-11 09:25

E. coli	< 1	1	CFU/100mL	Apr-11-11	APHA 9222	KEL	
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Microbiological Parameters, Continued

Ferry Creek (K1D0280-06) Matrix: Water Sampled: Apr-10-11 09:50

E. coli	4	1	CFU/100mL	Apr-11-11	APHA 9222	KEL	
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Shunter Creek (K1D0280-07) Matrix: Water Sampled: Apr-10-11 10:20

E. coli	< 1	1	CFU/100mL	Apr-11-11	APHA 9222	KEL	
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