

<b>REPORTED TO</b>	Red Mountain Residents Assoc. c/o PO Box 145 Silverton, BC V0G 2B0	<b>TEL</b>	1(250) 358-2571
		<b>FAX</b>	-
<b>ATTENTION</b>	Sally Hammond	<b>WORK ORDER</b>	3030935
<b>PO NUMBER</b>		<b>RECEIVED / TEMP</b>	Mar-20-13 09:30 / 3.0 °C
<b>PROJECT</b>	Analytical Testing	<b>REPORTED</b>	Apr-12-13
<b>PROJECT INFO</b>		<b>COC NUMBER</b>	04326

**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.

Issued By:



**Jennifer Shanko, ASCT**  
Administration Coordinator, Kelowna

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

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Analytical Testing

**WORK ORDER REPORTED** 3030935  
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Analysis Description	Method Reference (* = modified from)		Location
	Preparation	Analysis	
Hardness as CaCO <sub>3</sub> (CALC)	N/A	APHA 2340 B	Richmond
Total Recoverable Metals	APHA 3030E *	APHA 3125 B	Richmond

*Note: The numbers in brackets represent the year that the method was published/approved*

**Method Reference Descriptions:**

APHA Standard Methods for the Examination of Water and Wastewater, American Public Health Association

**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-related guideline)  
 mg/L Milligrams per litre

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Apr-12-13

Analyte	Result / Recovery	Canadian DW Guideline	MRL / Limit	Units	Prepared	Analyzed	Notes
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**Sample ID: Aylwin Ck - Paul & Randy (3030935-01) [Water] Sampled: Mar-17-13 14:30**

<b>Calculated Parameters</b>							
Hardness, Total (Total as CaCO3)	<b>292</b>		5.0	mg/L	N/A	N/A	
<b>Total Recoverable Metals</b>							
Aluminum, total	< 0.05	AO ≤ 0.1	0.05	mg/L	Mar-22-13	Mar-23-13	
Antimony, total	< 0.001	MAC = 0.006	0.001	mg/L	Mar-22-13	Mar-23-13	
Arsenic, total	< 0.005	MAC = 0.01	0.005	mg/L	Mar-22-13	Mar-23-13	
Barium, total	< 0.05	MAC = 1	0.05	mg/L	Mar-22-13	Mar-23-13	
Beryllium, total	< 0.001		0.001	mg/L	Mar-22-13	Mar-23-13	
Bismuth, total	< 0.001		0.001	mg/L	Mar-22-13	Mar-23-13	
Boron, total	< 0.04	MAC = 5	0.04	mg/L	Mar-22-13	Mar-23-13	
Cadmium, total	< 0.0001	MAC = 0.005	0.0001	mg/L	Mar-22-13	Mar-23-13	
Calcium, total	<b>108</b>		2	mg/L	Mar-22-13	Mar-23-13	
Chromium, total	< 0.005	MAC = 0.05	0.005	mg/L	Mar-22-13	Mar-23-13	
Cobalt, total	< 0.0005		0.0005	mg/L	Mar-22-13	Mar-23-13	
Copper, total	<b>0.002</b>	AO ≤ 1	0.002	mg/L	Mar-22-13	Mar-23-13	
Iron, total	< 0.1	AO ≤ 0.3	0.1	mg/L	Mar-22-13	Mar-23-13	
Lead, total	< 0.001	MAC = 0.01	0.001	mg/L	Mar-22-13	Mar-23-13	
Lithium, total	<b>0.004</b>		0.001	mg/L	Mar-22-13	Mar-23-13	
Magnesium, total	<b>5.2</b>		0.1	mg/L	Mar-22-13	Mar-23-13	
Manganese, total	< 0.002	AO ≤ 0.05	0.002	mg/L	Mar-22-13	Mar-23-13	
Mercury, total	< 0.0002	MAC = 0.001	0.0002	mg/L	Mar-22-13	Mar-23-13	
Molybdenum, total	<b>0.025</b>		0.001	mg/L	Mar-22-13	Mar-23-13	
Nickel, total	<b>0.004</b>		0.002	mg/L	Mar-22-13	Mar-23-13	
Phosphorus, total	< 0.2		0.2	mg/L	Mar-22-13	Mar-23-13	
Potassium, total	<b>2.0</b>		0.2	mg/L	Mar-22-13	Mar-23-13	
Selenium, total	< 0.005	MAC = 0.01	0.005	mg/L	Mar-22-13	Mar-23-13	
Silicon, total	< 5		5	mg/L	Mar-22-13	Mar-23-13	
Silver, total	< 0.0005		0.0005	mg/L	Mar-22-13	Mar-23-13	
Sodium, total	<b>4.0</b>	AO ≤ 200	0.2	mg/L	Mar-22-13	Mar-23-13	
Strontium, total	<b>0.49</b>		0.01	mg/L	Mar-22-13	Mar-23-13	
Sulfur, total	<b>120</b>		10	mg/L	Mar-22-13	Mar-23-13	
Tellurium, total	< 0.002		0.002	mg/L	Mar-22-13	Mar-23-13	
Thallium, total	< 0.0002		0.0002	mg/L	Mar-22-13	Mar-23-13	
Thorium, total	< 0.001		0.001	mg/L	Mar-22-13	Mar-23-13	
Tin, total	< 0.002		0.002	mg/L	Mar-22-13	Mar-23-13	
Titanium, total	< 0.05		0.05	mg/L	Mar-22-13	Mar-23-13	
Uranium, total	<b>0.0003</b>	MAC = 0.02	0.0002	mg/L	Mar-22-13	Mar-23-13	
Vanadium, total	< 0.01		0.01	mg/L	Mar-22-13	Mar-23-13	
Zinc, total	< 0.04	AO ≤ 5	0.04	mg/L	Mar-22-13	Mar-23-13	
Zirconium, total	< 0.001		0.001	mg/L	Mar-22-13	Mar-23-13	

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Analyte	Result / Recovery	Canadian DW Guideline	MRL / Limit	Units	Prepared	Analyzed	Notes
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**Sample ID: Willa Sp.- Paul & Randy (3030935-02) [Water] Sampled: Mar-17-13 14:40**

**Calculated Parameters**

Hardness, Total (Total as CaCO3)	<b>719</b>		5.0 mg/L		N/A	N/A	
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**Total Recoverable Metals**

Aluminum, total	< 0.05	AO ≤ 0.1	0.05 mg/L		Mar-22-13	Mar-23-13	
Antimony, total	< 0.001	MAC = 0.006	0.001 mg/L		Mar-22-13	Mar-23-13	
Arsenic, total	< 0.005	MAC = 0.01	0.005 mg/L		Mar-22-13	Mar-23-13	
Barium, total	< 0.05	MAC = 1	0.05 mg/L		Mar-22-13	Mar-23-13	
Beryllium, total	< 0.001		0.001 mg/L		Mar-22-13	Mar-23-13	
Bismuth, total	< 0.001		0.001 mg/L		Mar-22-13	Mar-23-13	
Boron, total	< 0.04	MAC = 5	0.04 mg/L		Mar-22-13	Mar-23-13	
Cadmium, total	<b>0.0001</b>	MAC = 0.005	0.0001 mg/L		Mar-22-13	Mar-23-13	
Calcium, total	<b>270</b>		2 mg/L		Mar-22-13	Mar-23-13	
Chromium, total	< 0.005	MAC = 0.05	0.005 mg/L		Mar-22-13	Mar-23-13	
Cobalt, total	< 0.0005		0.0005 mg/L		Mar-22-13	Mar-23-13	
Copper, total	<b>0.003</b>	AO ≤ 1	0.002 mg/L		Mar-22-13	Mar-23-13	
Iron, total	< 0.1	AO ≤ 0.3	0.1 mg/L		Mar-22-13	Mar-23-13	
Lead, total	< 0.001	MAC = 0.01	0.001 mg/L		Mar-22-13	Mar-23-13	
Lithium, total	<b>0.003</b>		0.001 mg/L		Mar-22-13	Mar-23-13	
Magnesium, total	<b>10.5</b>		0.1 mg/L		Mar-22-13	Mar-23-13	
Manganese, total	<b>0.005</b>	AO ≤ 0.05	0.002 mg/L		Mar-22-13	Mar-23-13	
Mercury, total	< 0.0002	MAC = 0.001	0.0002 mg/L		Mar-22-13	Mar-23-13	
Molybdenum, total	<b>0.030</b>		0.001 mg/L		Mar-22-13	Mar-23-13	
Nickel, total	<b>0.005</b>		0.002 mg/L		Mar-22-13	Mar-23-13	
Phosphorus, total	< 0.2		0.2 mg/L		Mar-22-13	Mar-23-13	
Potassium, total	<b>5.4</b>		0.2 mg/L		Mar-22-13	Mar-23-13	
Selenium, total	< 0.005	MAC = 0.01	0.005 mg/L		Mar-22-13	Mar-23-13	
Silicon, total	< 5		5 mg/L		Mar-22-13	Mar-23-13	
Silver, total	< 0.0005		0.0005 mg/L		Mar-22-13	Mar-23-13	
Sodium, total	<b>6.4</b>	AO ≤ 200	0.2 mg/L		Mar-22-13	Mar-23-13	
Strontium, total	<b>1.12</b>		0.01 mg/L		Mar-22-13	Mar-23-13	
Sulfur, total	<b>270</b>		10 mg/L		Mar-22-13	Mar-23-13	
Tellurium, total	< 0.002		0.002 mg/L		Mar-22-13	Mar-23-13	
Thallium, total	< 0.0002		0.0002 mg/L		Mar-22-13	Mar-23-13	
Thorium, total	< 0.001		0.001 mg/L		Mar-22-13	Mar-23-13	
Tin, total	< 0.002		0.002 mg/L		Mar-22-13	Mar-23-13	
Titanium, total	< 0.05		0.05 mg/L		Mar-22-13	Mar-23-13	
Uranium, total	<b>0.0012</b>	MAC = 0.02	0.0002 mg/L		Mar-22-13	Mar-23-13	
Vanadium, total	< 0.01		0.01 mg/L		Mar-22-13	Mar-23-13	
Zinc, total	< 0.04	AO ≤ 5	0.04 mg/L		Mar-22-13	Mar-23-13	
Zirconium, total	< 0.001		0.001 mg/L		Mar-22-13	Mar-23-13	

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Analyte	Result / Recovery	Canadian DW Guideline	MRL / Limit	Units	Prepared	Analyzed	Notes
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**Sample ID: Baby Ruth Ck.- Darn & Clarence (3030935-03) [Water] Sampled: Mar-17-13 11:26**

**Calculated Parameters**

Hardness, Total (Total as CaCO3)	<b>52.9</b>		5.0 mg/L		N/A	N/A	
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**Total Recoverable Metals**

Aluminum, total	< 0.05	AO ≤ 0.1	0.05 mg/L		Mar-22-13	Mar-23-13	
Antimony, total	< 0.001	MAC = 0.006	0.001 mg/L		Mar-22-13	Mar-23-13	
Arsenic, total	< 0.005	MAC = 0.01	0.005 mg/L		Mar-22-13	Mar-23-13	
Barium, total	< 0.05	MAC = 1	0.05 mg/L		Mar-22-13	Mar-23-13	
Beryllium, total	< 0.001		0.001 mg/L		Mar-22-13	Mar-23-13	
Bismuth, total	< 0.001		0.001 mg/L		Mar-22-13	Mar-23-13	
Boron, total	< 0.04	MAC = 5	0.04 mg/L		Mar-22-13	Mar-23-13	
Cadmium, total	< 0.0001	MAC = 0.005	0.0001 mg/L		Mar-22-13	Mar-23-13	
Calcium, total	<b>16</b>		2 mg/L		Mar-22-13	Mar-23-13	
Chromium, total	< 0.005	MAC = 0.05	0.005 mg/L		Mar-22-13	Mar-23-13	
Cobalt, total	< 0.0005		0.0005 mg/L		Mar-22-13	Mar-23-13	
Copper, total	< 0.002	AO ≤ 1	0.002 mg/L		Mar-22-13	Mar-23-13	
Iron, total	< 0.1	AO ≤ 0.3	0.1 mg/L		Mar-22-13	Mar-23-13	
Lead, total	< 0.001	MAC = 0.01	0.001 mg/L		Mar-22-13	Mar-23-13	
Lithium, total	<b>0.003</b>		0.001 mg/L		Mar-22-13	Mar-23-13	
Magnesium, total	<b>3.0</b>		0.1 mg/L		Mar-22-13	Mar-23-13	
Manganese, total	< 0.002	AO ≤ 0.05	0.002 mg/L		Mar-22-13	Mar-23-13	
Mercury, total	< 0.0002	MAC = 0.001	0.0002 mg/L		Mar-22-13	Mar-23-13	
Molybdenum, total	<b>0.002</b>		0.001 mg/L		Mar-22-13	Mar-23-13	
Nickel, total	< 0.002		0.002 mg/L		Mar-22-13	Mar-23-13	
Phosphorus, total	<b>0.2</b>		0.2 mg/L		Mar-22-13	Mar-23-13	
Potassium, total	<b>1.3</b>		0.2 mg/L		Mar-22-13	Mar-23-13	
Selenium, total	< 0.005	MAC = 0.01	0.005 mg/L		Mar-22-13	Mar-23-13	
Silicon, total	< 5		5 mg/L		Mar-22-13	Mar-23-13	
Silver, total	< 0.0005		0.0005 mg/L		Mar-22-13	Mar-23-13	
Sodium, total	<b>3.0</b>	AO ≤ 200	0.2 mg/L		Mar-22-13	Mar-23-13	
Strontium, total	<b>0.18</b>		0.01 mg/L		Mar-22-13	Mar-23-13	
Sulfur, total	<b>20</b>		10 mg/L		Mar-22-13	Mar-23-13	
Tellurium, total	< 0.002		0.002 mg/L		Mar-22-13	Mar-23-13	
Thallium, total	< 0.0002		0.0002 mg/L		Mar-22-13	Mar-23-13	
Thorium, total	< 0.001		0.001 mg/L		Mar-22-13	Mar-23-13	
Tin, total	< 0.002		0.002 mg/L		Mar-22-13	Mar-23-13	
Titanium, total	< 0.05		0.05 mg/L		Mar-22-13	Mar-23-13	
Uranium, total	<b>0.0022</b>	MAC = 0.02	0.0002 mg/L		Mar-22-13	Mar-23-13	
Vanadium, total	< 0.01		0.01 mg/L		Mar-22-13	Mar-23-13	
Zinc, total	< 0.04	AO ≤ 5	0.04 mg/L		Mar-22-13	Mar-23-13	
Zirconium, total	< 0.001		0.001 mg/L		Mar-22-13	Mar-23-13	

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Analyte	Result / Recovery	Canadian DW Guideline	MRL / Limit	Units	Prepared	Analyzed	Notes
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**Sample ID: Fingland Ck.- Darn & Clarence (3030935-04) [Water] Sampled: Mar-17-13 11:43**

**Calculated Parameters**

Hardness, Total (Total as CaCO <sub>3</sub> )	41.1		5.0	mg/L	N/A	N/A	
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**Total Recoverable Metals**

Aluminum, total	0.11	AO ≤ 0.1	0.05	mg/L	Mar-22-13	Mar-23-13	
Antimony, total	< 0.001	MAC = 0.006	0.001	mg/L	Mar-22-13	Mar-23-13	
Arsenic, total	0.013	MAC = 0.01	0.005	mg/L	Mar-22-13	Mar-23-13	
Barium, total	< 0.05	MAC = 1	0.05	mg/L	Mar-22-13	Mar-23-13	
Beryllium, total	< 0.001		0.001	mg/L	Mar-22-13	Mar-23-13	
Bismuth, total	< 0.001		0.001	mg/L	Mar-22-13	Mar-23-13	
Boron, total	< 0.04	MAC = 5	0.04	mg/L	Mar-22-13	Mar-23-13	
Cadmium, total	< 0.0001	MAC = 0.005	0.0001	mg/L	Mar-22-13	Mar-23-13	
Calcium, total	14		2	mg/L	Mar-22-13	Mar-23-13	
Chromium, total	< 0.005	MAC = 0.05	0.005	mg/L	Mar-22-13	Mar-23-13	
Cobalt, total	< 0.0005		0.0005	mg/L	Mar-22-13	Mar-23-13	
Copper, total	< 0.002	AO ≤ 1	0.002	mg/L	Mar-22-13	Mar-23-13	
Iron, total	0.2	AO ≤ 0.3	0.1	mg/L	Mar-22-13	Mar-23-13	
Lead, total	< 0.001	MAC = 0.01	0.001	mg/L	Mar-22-13	Mar-23-13	
Lithium, total	0.002		0.001	mg/L	Mar-22-13	Mar-23-13	
Magnesium, total	1.7		0.1	mg/L	Mar-22-13	Mar-23-13	
Manganese, total	0.009	AO ≤ 0.05	0.002	mg/L	Mar-22-13	Mar-23-13	
Mercury, total	< 0.0002	MAC = 0.001	0.0002	mg/L	Mar-22-13	Mar-23-13	
Molybdenum, total	0.002		0.001	mg/L	Mar-22-13	Mar-23-13	
Nickel, total	< 0.002		0.002	mg/L	Mar-22-13	Mar-23-13	
Phosphorus, total	< 0.2		0.2	mg/L	Mar-22-13	Mar-23-13	
Potassium, total	0.9		0.2	mg/L	Mar-22-13	Mar-23-13	
Selenium, total	< 0.005	MAC = 0.01	0.005	mg/L	Mar-22-13	Mar-23-13	
Silicon, total	< 5		5	mg/L	Mar-22-13	Mar-23-13	
Silver, total	< 0.0005		0.0005	mg/L	Mar-22-13	Mar-23-13	
Sodium, total	2.2	AO ≤ 200	0.2	mg/L	Mar-22-13	Mar-23-13	
Strontium, total	0.13		0.01	mg/L	Mar-22-13	Mar-23-13	
Sulfur, total	13		10	mg/L	Mar-22-13	Mar-23-13	
Tellurium, total	< 0.002		0.002	mg/L	Mar-22-13	Mar-23-13	
Thallium, total	< 0.0002		0.0002	mg/L	Mar-22-13	Mar-23-13	
Thorium, total	< 0.001		0.001	mg/L	Mar-22-13	Mar-23-13	
Tin, total	< 0.002		0.002	mg/L	Mar-22-13	Mar-23-13	
Titanium, total	< 0.05		0.05	mg/L	Mar-22-13	Mar-23-13	
Uranium, total	0.0004	MAC = 0.02	0.0002	mg/L	Mar-22-13	Mar-23-13	
Vanadium, total	< 0.01		0.01	mg/L	Mar-22-13	Mar-23-13	
Zinc, total	< 0.04	AO ≤ 5	0.04	mg/L	Mar-22-13	Mar-23-13	
Zirconium, total	< 0.001		0.001	mg/L	Mar-22-13	Mar-23-13	