



North Island Laboratories

• 2755 B Moray Avenue, Courtenay, B.C. V9N 8M9 Tel: (250) 338-7786 Fax: (250) 338-7553

Certificate of Analysis

Report To: Don Buchner
330 Horne Lake Rd.
Qualicum Beach, BC V9K 1Z6

Lab Number: 111439
Date Reported: 7 Jul 14
Date Completed: 7 Jul 14
Date Received: 23 Jun 14 12:37

111439-01 Little Qualicum River Village Well #1

Sampled By: Don Buchner
Sampling Date: 23 Jun 14 10:00

Test	Result	Units	Drinking Water Guideline
Total ammonia - N	<0.02	mg/L	
Total Coliforms (DES)	<1.0	MPN/100mL	<1
E. coli (DES)	<1.0	MPN/100mL	<1
Colour - Apparent	<5	Colour Units	15
UV Transmittance	98.0	%/cm	
Fluoride	0.02	mg/L	1.5 MAC
Chloride	1.59	mg/L	250 AO
Nitrate (N)	0.23	mg/L	10 MAC
Nitrite (N)	<0.01	mg/L	1 MAC
Sulphate	1.3	mg/L	500 AO
T-Aluminium	<0.025	mg/L	0.1 Operational Std.
T-Antimony	<0.0005	mg/L	0.006 MAC
T-Arsenic	<0.00025	mg/L	0.010 MAC
T-Barium	0.00246	mg/L	1.0 MAC
T-Beryllium	<0.00025	mg/L	
T-Bismuth	<0.0005	mg/L	
T-Boron	0.016	mg/L	5 IMAC
T-Cadmium	<0.00005	mg/L	0.005 MAC
T-Calcium	9.2	mg/L	
T-Chromium	<0.0025	mg/L	0.05 MAC
T-Cobalt	<0.0005	mg/L	
T-Copper	0.0026	mg/L	1.0 AO
T-Iron	0.015	mg/L	0.3 AO
T-Lead	0.0011	mg/L	0.010 MAC
T-Lithium	<0.0025	mg/L	
T-Magnesium	1.36	mg/L	

AO = Aesthetic Objective; MAC = Max. Allowable Concentration; IMAC = Interim MAC

> = Greater than; < = Less than

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Canadian Drinking Water Guidelines as listed on Dec. 5th, 2005 and are subject to change. Method uncertainties for specified analyses are available upon request.

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111439-01 Little Qualicum River Village Well #1

Sampled By: Don Buchner

Sampling Date: 23 Jun 14 10:00

Test	Result	Units	Drinking Water Guideline
T-Manganese	<0.0050	mg/L	0.05 AO
T-Molybdenum	<0.00025	mg/L	
T-Nickel	<0.0010	mg/L	
T-Potassium	<0.5	mg/L	
T-Selenium	<0.0005	mg/L	0.01 MAC
T-Silicon	5.78	mg/L	
T-Silver	<0.00025	mg/L	
T-Sodium	1.8	mg/L	200 AO
T-Strontium	0.022	mg/L	
T-Thallium	<0.00005	mg/L	
T-Tin	<0.0005	mg/L	
T-Titanium	<0.0025	mg/L	
T-Uranium	<0.00005	mg/L	0.02 MAC
T-Vanadium	0.0006	mg/L	
T-Zinc	0.0212	mg/L	5 AO
Hardness (CaCO ₃)	29	mg/L	
Tannins & Lignins	<0.1	mg/L	0.4 AO
pH at 25 C	6.2	pH Units	6.5-8.5
Alkalinity	24	mg/L (CaCO ₃)	
Turbidity	<0.5	NTU's	5 AO
Total Dissolved Solids (conductivity ca	43	mg/L	500 AO
Total Nitrogen (N)	0.28	mg/L	
Total Organic Nitrogen	0.3	mg/L	

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Test	Method	Analyst	Date
Alkalinity	Titration to 4.5, APHA 2320 B -modified	NiSL	6/23/2014
Chloride	Ion Chromatography, EPA 300.1 -modified	EXL	6/26/2014
Colour - Apparent	Spectrophotometer, APHA 2120 C -modified	NiSL	6/25/2014
E. coli (DES)	Enzyme Substrate, APHA 9223 B -modified	NiSL	6/23/2014
Fluoride	Ion Chromatography, EPA 300.1 -modified	EXL	6/26/2014
Hardness (CaCO ₃)	Hardness by Calculation, APHA 2340 B -modified	NiSL	7/4/2014
Nitrate (N)	Ion Chromatography, EPA 300.1 -modified	EXL	6/25/2014
Nitrite (N)	Ion Chromatography, EPA 300.1 -modified	EXL	6/25/2014
pH at 25 C	Electrometric, APHA 4500 B -modified	NiSL	6/23/2014
Sulphate	Ion Chromatography, EPA 300.1 -modified	EXL	6/26/2014
T-Aluminium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Antimony	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Arsenic	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Barium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Beryllium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Bismuth	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Boron	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Cadmium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Calcium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Chromium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Cobalt	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Copper	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Iron	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Lead	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Lithium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Magnesium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Manganese	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Molybdenum	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Nickel	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Potassium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Selenium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Silicon	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Silver	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Sodium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Strontium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014

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T-Thallium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Tin	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Titanium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Uranium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Vanadium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
T-Zinc	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	6/30/2014
Tannins & Lignins	Exova Subcontract,Colorimetric,APHA 5550B-modified	EXL	6/27/2014
Total ammonia - N	Hach 10205, Salicylate -modified	NiSL	6/25/2014
Total Coliforms (DES)	Enzyme Substrate, APHA 9223 B -modified	NiSL	6/23/2014
Total Dissolved Solids (conducti	Conductivity @25C, APHA 2510 A -modified	NiSL	6/24/2014
Total Nitrogen (N)	Exova Subcontract, ISO/TR 11905-2 -modified	EXL	6/30/2014
Total Organic Nitrogen	Exova Subcontract, Ch.34 SSSA BookSeries5-modified	NiSL	7/4/2014
Turbidity	Nephelometric, APHA 2130 B -modified	NiSL	6/24/2014
UV Transmittance	APHA 5910 B -modified	NiSL	6/25/2014

Approved By:

Catherine Black, Owner/Operator

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