



# 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: Deep Bay Waterworks Dist.  
Admin  
5031 Mountain View Road  
Bowser, BC V0R 1G0

Lab Number: 115837  
Date Reported: 28 Nov 14  
Date Completed: 28 Nov 14  
Date Received: 17 Nov 14 14:28

### 115837-01 Well #3

Sampled By: Don Buchner  
Sampling Date: 17 Nov 14 11:00

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	10	Colour Units	15
UV Transmittance	98.5	%/cm	
Fluoride	<0.05	mg/L	1.5 MAC
Chloride	1.3	mg/L	250 AO
Nitrate (N)	0.06	mg/L	10 MAC
Nitrite (N)	0.08	mg/L	1 MAC
Sulphate	0.8	mg/L	500 AO
T-Aluminium	<0.005	mg/L	0.1 Operational Std.
T-Antimony	<0.0001	mg/L	0.006 MAC
T-Arsenic	<0.00005	mg/L	0.010 MAC
T-Barium	0.00106	mg/L	1.0 MAC
T-Beryllium	<0.00005	mg/L	
T-Bismuth	<0.0001	mg/L	
T-Boron	0.004	mg/L	5 IMAC
T-Cadmium	<0.00001	mg/L	0.005 MAC
T-Calcium	10.3	mg/L	
T-Chromium	0.0007	mg/L	0.05 MAC
T-Cobalt	<0.0001	mg/L	
T-Copper	0.0075	mg/L	1.0 AO
T-Iron	0.167	mg/L	0.3 AO
T-Lead	0.0026	mg/L	0.010 MAC
T-Lithium	<0.0005	mg/L	

Test results are in the results column. Your results should be below or with the values listed in the Drinking Water guidelines column on the right hand side of the report.

Aesthetic Objective; MAC = Max. Allowable Concentration; IMAC = Interim MAC  
Greater than; < = Less than

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11/28/2014 10:15

Page 1 of 4



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## 115837-01 Well #3

Sampled By: Don Buchner

Sampling Date: 17 Nov 14 11:00

Test	Result	Units	Drinking Water Guideline
T-Magnesium	2.31	mg/L	
T-Manganese	0.0038	mg/L	0.05 AO
T-Molybdenum	<0.00005	mg/L	
T-Nickel	0.0006	mg/L	
T-Potassium	0.2	mg/L	
T-Selenium	<0.0001	mg/L	0.01 MAC
T-Silicon	11.2	mg/L	
T-Silver	<0.00005	mg/L	
T-Sodium	3.1	mg/L	200 AO
T-Strontium	0.0272	mg/L	
T-Thallium	<0.00001	mg/L	
T-Tin	0.0012	mg/L	
T-Titanium	<0.0005	mg/L	
T-Uranium	<0.00001	mg/L	0.02 MAC
T-Vanadium	0.0016	mg/L	
T-Zinc	0.0158	mg/L	5 AO
Hardness (CaCO <sub>3</sub> )	35	mg/L	
Tannins & Lignins	0.1	mg/L	0.4 AO
pH at 25 C	7.2	pH Units	6.5-8.5
Alkalinity	36	mg/L (CaCO <sub>3</sub> )	
Turbidity	1.2	NTU's	0.1 Operatonal Stand
Total Dissolved Solids (conductivity ca	51	mg/L	500 AO

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11/28/2014 10:15

Page 2 of 4



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## 115837-01

Test	Method	Analyst	Date
Alkalinity	Titration to 4.5, APHA 2320 B -modified	NiSL	11/19/2014
Chloride	Ion Chromatography, EPA 300.1 -modified	NiSL	11/19/2014
Colour - Apparent	Spectrophotometer, APHA 2120 C -modified	NiSL	11/18/2014
E. coli (DES)	Enzyme Substrate, APHA 9223 B -modified	NiSL	11/17/2014
Fluoride	Ion Chromatography, EPA 300.1 -modified	NiSL	11/19/2014
Hardness (CaCO3)	Hardness by Calculation, APHA 2340 B -modified	NiSL	11/27/2014
Nitrate (N)	Ion Chromatography, EPA 300.1 -modified	NiSL	11/19/2014
Nitrite (N)	Ion Chromatography, EPA 300.1 -modified	NiSL	11/19/2014
pH at 25 C	Electrometric, APHA 4500 B -modified	NiSL	11/18/2014
Sulphate	Ion Chromatography, EPA 300.1 -modified	NiSL	11/19/2014
T-Aluminium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Antimony	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Arsenic	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Barium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Beryllium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Bismuth	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Boron	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Cadmium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Calcium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Chromium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Cobalt	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Copper	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Iron	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Lead	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Lithium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Magnesium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Manganese	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Molybdenum	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Nickel	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Potassium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Selenium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Silicon	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Silver	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Sodium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014

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11/28/2014 10:15

Page 3 of 4



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T-Strontium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Thallium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Tin	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Titanium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Uranium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Vanadium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
T-Zinc	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/25/2014
Tannins & Lignins	Exova Subcontract,Colorimetric,APHA 5550B-modified	EXL	11/24/2014
Total ammonia - N	Hach 10205, Salicylate -modified	NiSL	11/19/2014
Total Coliforms (DES)	Enzyme Substrate, APHA 9223 B -modified	NiSL	11/17/2014
Total Dissolved Solids (conducti	Conductivity @25C, APHA 2510 A -modified	NiSL	11/19/2014
Turbidity	Nephelometric, APHA 2130 B -modified	NiSL	11/18/2014
UV Transmittance	APHA 5910 B -modified	NiSL	11/18/2014

Approved By:

Catherine Black, Owner/Operator

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Page 4 of 4