



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: Qualicum Bay Horne Lake
Waterworks Dist.
234 Lions Way
Qualicum Beach, BC
V9K 2E2

Lab Number: 87236
Date Reported: 3 May 11
Date Completed: 3 May 11
Date Received: 19 Apr 11 11:53

87236-01 well #3 VIHA no bacteria testing

Sampled By: Ron
Sampling Date: 19 Apr 11 0:00

Test	Result	Units	Drinking Water Guideline
Alkalinity	77	mg/L (CaCO ₃)	
Total Ammonia (N)	<0.05	mg/L	
Chloride	<2.0	mg/L	250 AO
Fluoride	<1.0	mg/L	1.5 MAC
Nitrate (N)	<0.1	mg/L	10 MAC
Nitrite (N)	<0.1	mg/L	1 MAC
Sulphate	2.8	mg/L	500 AO
Colour - True	5.0	Colour Units	15 AO
Conductivity	146.3	uS	
Corrosivity	-0.27		
T-Mercury	<0.00001	mg/L	0.001 MAC
pH	8.1	pH Units	6.5-8.5
Sulphide	<0.005	mg/L	0.05 AO
Total Dissolved Solids	96	mg/L	500 AO
Total Organic Carbon	<0.5	mg/L	
Total Organic Nitrogen	0.09	mg/L	
T-Aluminium	<0.005	mg/L	0.1 Operational Std
T-Antimony	<0.0002	mg/L	0.006 MAC
T-Arsenic	0.0014	mg/L	0.010 MAC
T-Barium	0.002	mg/L	1.0 MAC
T-Beryllium	<0.00004	mg/L	
T-Boron	0.013	mg/L	5 MAC
T-Bismuth	<0.001	mg/L	
T-Cadmium	<0.00001	mg/L	0.005 MAC
T-Calcium	19.8	mg/L	
T-Chromium	<0.0004	mg/L	0.05 MAC
T-Cobalt	0.00002	mg/L	

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

> = Greater than; < = Less than

Results relate only to samples as submitted. This certificate must not be reproduced, except in its entirety, without written consent from the laboratory.

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87236-01 well #3 VIHA no bacteria testing

Sampled By: Ron

Sampling Date: 19 Apr 11 0:00

Test	Result	Units	Drinking Water Guideline
T-Copper	<0.001	mg/L	1.0 AO
T-Iron	0.014	mg/L	0.3 AO
T-Lead	<0.0001	mg/L	0.010 MAC
T-Lithium	<0.001	mg/L	
T-Magnesium	4.69	mg/L	
T-Manganese	0.095	mg/L	0.05 AO
T-Molybdenum	0.0003	mg/L	
T-Nickel	<0.001	mg/L	
T-Phosphorus	0.116	mg/L	
T-Potassium	1.1	mg/L	
T-Selenium	<0.0006	mg/L	0.01 MAC
T-Silicon	7.33	mg/L	
T-Silver	<0.00001	mg/L	
T-Sodium	4.23	mg/L	200 AO
T-Strontium	0.036	mg/L	
T-Thallium	<0.00001	mg/L	
T-Tin	<0.0001	mg/L	
T-Titanium	0.003	mg/L	
T-Uranium	<0.0004	mg/L	
T-Vanadium	0.0042	mg/L	
T-Zinc	0.007	mg/L	5.0 AO
Hardness (CaCO ₃)	69	mg/L	80-100
Turbidity	<0.5	NTU's	5 AO

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87236-01

Test	Method	Analyst	Date
Alkalinity	Titration to 4.5, APHA based method	NiSL	21/04/2011
Chloride	TM6.1 Ion Chromatography APHA based	NiSL	21/04/2011
Colour - True	Exova Subcontract Exova Subcontract	EXL	26/04/2011
Conductivity	Conductance meter	NiSL	21/04/2011
Corrosivity	calc.	NiSL	02/05/2011
Fluoride	TM6.1 Ion Chromatography APHA based	NiSL	21/04/2011
Hardness (CaCO ₃)	calculation	NiSL	02/05/2011
Nitrate (N)	TM6.1 Ion Chromatography APHA based	NiSL	21/04/2011
Nitrite (N)	TM6.1 Ion Chromatography APHA based	NiSL	21/04/2011
pH	pH meter	NiSL	21/04/2011
Sulphate	TM6.1 Ion Chromatography APHA based	NiSL	21/04/2011
Sulphide	Gas Dialysis APHA 4500-S2-E-Exova Subcontract	EXL	26/04/2011
T-Aluminium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	26/04/2011
T-Antimony	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	26/04/2011
T-Arsenic	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	26/04/2011
T-Barium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	26/04/2011
T-Beryllium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	26/04/2011
T-Bismuth	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	26/04/2011
T-Boron	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	26/04/2011
T-Cadmium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	26/04/2011
T-Calcium	ICP, APHA 3120B Exova Subcontract	EXL	26/04/2011
T-Chromium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	26/04/2011
T-Cobalt	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	26/04/2011
T-Copper	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	26/04/2011
T-Iron	ICP, APHA 3120B Exova Subcontract	EXL	26/04/2011
T-Lead	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	26/04/2011
T-Lithium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	26/04/2011
T-Magnesium	ICP, APHA 3120B Exova Subcontract	EXL	26/04/2011
T-Manganese	ICP, APHA 3120B Exova Subcontract	EXL	26/04/2011
T-Mercury	Cold Vapor Atomic Absor, MDMES 245.1-Norwest Su	EXL	26/04/2011
T-Molybdenum	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	26/04/2011
T-Nickel	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	26/04/2011
T-Phosphorus	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	26/04/2011
T-Potassium	ICP, APHA 3120B Exova Subcontract	EXL	26/04/2011
T-Selenium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	26/04/2011

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T-Silicon	ICP, APHA 3120B Exova Subcontract	EXL	26/04/2011
T-Silver	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	26/04/2011
T-Sodium	ICP, APHA 3120B Exova Subcontract	EXL	26/04/2011
T-Strontium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	26/04/2011
T-Thallium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	26/04/2011
T-Tin	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	26/04/2011
T-Titanium	ICP, APHA 3120B Exova Subcontract	EXL	26/04/2011
T-Uranium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	26/04/2011
T-Vanadium	ICP, APHA 3120B Exova Subcontract	EXL	26/04/2011
T-Zinc	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	26/04/2011
Total Ammonia (N)	Exova Subcontract - APHA 4500-NH3 C based	EXL	26/04/2011
Total Dissolved Solids	gravimetric - Exova Subcontract	EXL	26/04/2011
Total Organic Carbon	Exova Subcontract Exova Subcontract	EXL	26/04/2011
Total Organic Nitrogen	Exova Subcontract Exova Subcontract	EXL	26/04/2011
Turbidity	Nephelometer	NIsL	19/04/2011

Approved By: 

Catherine Black, Owner/Operator

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