



# 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: School District #69  
P.O. Box 430  
Parksville, BC  
V9P 2G5

Lab Number: 106242  
Date Reported: 21 Oct 13  
Date Completed: 21 Oct 13  
Date Received: 7 Oct 13 10:57

### **106242-01 French Creek Elementary Raw Well Water**

Sampled By:

Sampling Date: 7 Oct 13 10:00

Test	Result	Units	Drinking Water Guideline
Nitrate (N)	5.15	mg/L	10 MAC

### **106242-02 Errington Elementary School Post Treatment Well Water**

Sampled By:

Sampling Date: 7 Oct 13 10:00

Test	Result	Units	Drinking Water Guideline
Alkalinity	280	mg/L (CaCO <sub>3</sub> )	
Ammonia - N	0.75	mg/L	
Chloride	13.6	mg/L	250 AO
Fluoride	0.22	mg/L	1.5 MAC
Nitrate (N)	<0.05	mg/L	10 MAC
Nitrite (N)	<0.05	mg/L	1 MAC
Sulphate	2.0	mg/L	500 AO
Colour - True	13	Colour Units	15
Conductivity	513	uS/cm	
Corrosivity	0.69		
T-Mercury	<0.00001	mg/L	0.001 MAC
pH at 25 C	8.5	pH Units	6.5-8.5
Total Dissolved Solids	288	mg/L dried at 180 °	500 AO
Total Organic Carbon	5	mg/L	
Total Organic Nitrogen	0.58	mg/L	
T-Aluminium	0.009	mg/L	0.1 Operational Std
T-Antimony	<0.0002	mg/L	0.006 MAC
T-Arsenic	<0.0002	mg/L	0.010 MAC
T-Barium	0.224	mg/L	1.0 MAC

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

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## 106242-02 Errington Elementary School Post Treatment Well Water

Sampled By:

Sampling Date: 7 Oct 13 10:00

Test	Result	Units	Drinking Water Guideline
T-Beryllium	<0.00004	mg/L	
T-Boron	0.129	mg/L	5 MAC
T-Bismuth	<0.001	mg/L	
T-Cadmium	<0.00001	mg/L	0.005 MAC
T-Calcium	11.9	mg/L	
T-Chromium	<0.0004	mg/L	0.05 MAC
T-Cobalt	0.00004	mg/L	
T-Copper	0.008	mg/L	1.0 AO
T-Iron	0.218	mg/L	0.3 AO
T-Lead	0.0076	mg/L	0.010 MAC
T-Lithium	0.007	mg/L	
T-Magnesium	4.12	mg/L	
T-Manganese	0.0884	mg/L	0.05 AO
T-Molybdenum	<0.0001	mg/L	
T-Nickel	<0.001	mg/L	
T-Potassium	1.12	mg/L	
T-Selenium	<0.0006	mg/L	0.01 MAC
T-Silicon	8.15	mg/L	
T-Silver	<0.00001	mg/L	
T-Sodium	116	mg/L	200 AO
T-Strontium	0.433	mg/L	
T-Thallium	<0.00001	mg/L	
T-Tin	<0.0001	mg/L	
T-Titanium	<0.0010	mg/L	
T-Uranium	<0.0004	mg/L	
T-Vanadium	0.0006	mg/L	
T-Zinc	0.013	mg/L	5.0 AO
Hardness (CaCO <sub>3</sub> )	47	mg/L	80-100
Turbidity	0.5	NTU's	5 AO

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## 106242-01

We suggest the following Health Canada website for further information regarding the latest drinking water quality guidelines to help you assess your results:

[http://www.hc-sc.gc.ca/ewh-semt/pubs/water-eau/doc\\_sup-appui/sum\\_guide-res\\_recom/index\\_e.html](http://www.hc-sc.gc.ca/ewh-semt/pubs/water-eau/doc_sup-appui/sum_guide-res_recom/index_e.html)

Test	Method	Analyst	Date
Alkalinity	Titration to 4.5, APHA 2320 B -modified	NiSL	10/11/2013
Ammonia - N	Hach 10205, Salicylate -modified	NiSL	10/9/2013
Chloride	Ion Chromatography, EPA 300.1 -modified	NiSL	10/9/2013
Colour - True	Spectrophotometer, APHA 2120 C -modified	NiSL	10/9/2013
Conductivity	Conductivity @25C, APHA 2510 B -modified	NiSL	10/11/2013
Corrosivity	Langelier Saturation Index, www.awwa.org	NiSL	10/21/2013
Fluoride	Ion Chromatography, EPA 300.1 -modified	NiSL	10/9/2013
Hardness (CaCO <sub>3</sub> )	Hardness by Calculation, APHA 2340 B -modified	NiSL	10/21/2013
Nitrate (N)	Ion Chromatography, EPA 300.1 -modified	NiSL	10/9/2013
Nitrite (N)	Ion Chromatography, EPA 300.1 -modified	NiSL	10/9/2013
pH at 25 C	Electrometric, APHA 4500 B -modified	NiSL	10/11/2013
Sulphate	Ion Chromatography, EPA 300.1 -modified	NiSL	10/9/2013
T-Aluminium	Exova Subcontract, ICP-MS,USEPA 200.8-modified	EXL	10/10/2013
T-Antimony	Exova Subcontract, ICP-MS,USEPA 200.8-modified	EXL	10/10/2013
T-Arsenic	Exova Subcontract, ICP-MS,USEPA 200.8-modified	EXL	10/10/2013
T-Barium	Exova Subcontract, ICP-MS,USEPA 200.8-modified	EXL	10/10/2013
T-Beryllium	Exova Subcontract, ICP-MS,USEPA 200.8-modified	EXL	10/10/2013
T-Bismuth	Exova Subcontract, ICP-MS,USEPA 200.8-modified	EXL	10/10/2013
T-Boron	Exova Subcontract, ICP-MS,USEPA 200.8-modified	EXL	10/10/2013
T-Cadmium	Exova Subcontract, ICP-MS,USEPA 200.8-modified	EXL	10/10/2013
T-Calcium	Exova Subcontract, ICP, APHA 3120B -modified	EXL	10/10/2013
T-Chromium	Exova Subcontract, ICP-MS,USEPA 200.8-modified	EXL	10/10/2013
T-Cobalt	Exova Subcontract, ICP-MS,USEPA 200.8-modified	EXL	10/10/2013
T-Copper	Exova Subcontract, ICP-MS,USEPA 200.8-modified	EXL	10/10/2013
T-Iron	Exova Subcontract, ICP, APHA 3120B -modified	EXL	10/10/2013
T-Lead	Exova Subcontract, ICP-MS,USEPA 200.8-modified	EXL	10/10/2013
T-Lithium	Exova Subcontract, ICP-MS,USEPA 200.8-modified	EXL	10/10/2013
T-Magnesium	Exova Subcontract, ICP, APHA 3120B-modified	EXL	10/10/2013
T-Manganese	Exova Subcontract, ICP, APHA 3120B -modified	EXL	10/10/2013
T-Mercury	Exova Subcontract, Atomic Absorb, MDMES 245.1	EXL	10/11/2013
T-Molybdenum	Exova Subcontract, ICP-MS,USEPA 200.8-modified	EXL	10/10/2013
T-Nickel	Exova Subcontract, ICP-MS,USEPA 200.8-modified	EXL	10/10/2013
T-Potassium	Exova Subcontract, ICP, APHA 3120B - modified	EXL	10/10/2013

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T-Selenium	Exova Subcontract, ICP-MS,USEPA 200.8-modified	EXL	10/10/2013
T-Silicon	Exova Subcontract, ICP, APHA 3120B - modified	EXL	10/10/2013
T-Silver	Exova Subcontract, ICP-MS,USEPA 200.8-modified	EXL	10/10/2013
T-Sodium	Exova Subcontract, ICP, APHA 3120B - modified	EXL	10/10/2013
T-Strontium	Exova Subcontract, ICP-MS,USEPA 200.8-modified	EXL	10/10/2013
T-Thallium	Exova Subcontract, ICP-MS,USEPA 200.8-modified	EXL	10/10/2013
T-Tin	Exova Subcontract, ICP-MS,USEPA 200.8-modified	EXL	10/10/2013
T-Titanium	Exova Subcontract, ICP, APHA 3120B - modified	EXL	10/10/2013
T-Uranium	Exova Subcontract, ICP-MS,USEPA 200.8-modified	EXL	10/10/2013
T-Vanadium	Exova Subcontract, ICP, APHA 3120B - modified	EXL	10/10/2013
T-Zinc	Exova Subcontract, ICP-MS,USEPA 200.8-modified	EXL	10/10/2013
Total Dissolved Solids	Exova Subcontract, dried @180C,APHA 2540C-modified	EXL	10/15/2013
Total Organic Carbon	Exova Subcontract, Ch.34 SSSA BookSeries5-modified	EXL	10/11/2013
Total Organic Nitrogen	Exova Subcontract, Ch.37 SSSA BookSeries5-modified	EXL	10/11/2013
Turbidity	Nephelometric, APHA 2130 B -modified	NIsL	10/9/2013

Approved By: 

Catherine Black, Owner/Operator

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