



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.
Leslie
5031 Mountain View Road
Bowser, BC V0R 1G0

Lab Number: 79675
Date Reported: 16 Apr 10
Date Completed: 16 Apr 10
Date Received: 6 Apr 10 13:26

79675-01 Deep Bay Reservoir

Sampled By: Ijim
Sampling Date: 6 Apr 10 11:00

Test	Result	Units	Drinking Water Guideline
Total Ammonia (N)	<0.01	mg/L	
Alkalinity	45	mg/L	
Colour - Apparent	<5	Colour units	15 AO
Conductivity	98.4	uS	
Hardness (CaCO ₃)	41	mg/L	80-100
pH	7.8	pH Units	6.5-8.5
Total Dissolved Solids	74	mg/L	500 AO
Turbidity	<0.5	NTU's	5 AO
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	3.2 MAC
Sulphate	<2.0	mg/L	500 AO
T-Aluminium	<0.005	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	0.002	mg/L	1.0 MAC
T-Boron	0.011	mg/L	5 IMAC
T-Cadmium	<0.00001	mg/L	0.005 MAC
T-Calcium	14.4	mg/L	
T-Chromium	0.0008	mg/L	0.05 MAC
T-Copper	<0.001	mg/L	1.0 AO
T-Iron	<0.01	mg/L	0.3 AO
T-Lead	0.0002	mg/L	0.010 MAC
T-Lithium	<0.001	mg/L	
T-Magnesium	1.79	mg/L	
T-Manganese	<0.0002	mg/L	0.05 AO

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

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79675-01 Deep Bay Reservoir

Sampled By: Ijim

Sampling Date: 6 Apr 10 11:00

Test	Result	Units	Drinking Water Guideline
T-Mercury	<0.01	ug/L	1 ug/L MAC
T-Nickel	<0.001	mg/L	
T-Phosphorus	<0.01	mg/L	
T-Potassium	0.5	mg/L	
T-Selenium	<0.0006	mg/L	0.01 MAC
T-Silver	<0.00001	mg/L	
T-Sodium	3.04	mg/L	200 AO
T-Uranium	<0.0004	mg/L	0.02 MAC
T-Zinc	0.01	mg/L	5 AO
Total Coliforms (DES)	1.0	MPN/100mL	<1
E. coli (DES)	<1.0	MPN/100mL	<1
d-Aluminium	<0.005	mg/L	
d-Antimony	<0.0002	mg/L	
d-Arsenic	<0.0002	mg/L	
d-Barium	0.002	mg/L	
d-Beryllium	<0.00004	mg/L	
d-Boron	0.005	mg/L	
d-Cadmium	<0.00001	mg/L	
d-Calcium	13.7	mg/L	
d-Chromium	0.0006	mg/L	
d-Cobalt	<0.00002	mg/L	
d-Copper	<0.001	mg/L	
d-Iron	<0.01	mg/L	
d-Lead	<0.0001	mg/L	
d-Lithium	<0.001	mg/L	
d-Magnesium	1.7	mg/L	
d-Manganese	<0.0002	mg/L	
d-Molybdenum	<0.0001	mg/L	
d-Nickel	<0.001	mg/L	
d-Phosphorus	<0.01	mg/L	
d-Potassium	0.6	mg/L	
d-Selenium	<0.0006	mg/L	
d-Silicon	8.57	mg/L	
d-Silver	<0.00001	mg/L	

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79675-01 Deep Bay Reservoir

Sampled By: Ijim

Sampling Date: 6 Apr 10 11:00

Test	Result	Units	Drinking Water Guideline
d-Sodium	2.8	mg/L	
d-Strontium	0.036	mg/L	
d-Thallium	<0.00001	mg/L	
d-Tin	<0.0001	mg/L	
d-Titanium	<0.01	mg/L	
d-Uranium	<0.0004	mg/L	
d-Vanadium	0.0019	mg/L	
d-Zinc	0.01	mg/L	
Hardness (CaCO ₃)	41	mg/L	
EPH (C10-C19)	<100	ug/L	
EPH (C19-C32)	<100	ug/L	
Fecal Coliforms (MF)	<1	CFU/100ml	
MRMW, PD30, VOC5W, PHGLYPW	see attached		
Aroclor 1016	<0.1	ug/L	
Aroclor 1221	<0.1	ug/L	
Aroclor 1232	<0.1	ug/L	
Aroclor 1242	<0.1	ug/L	
Aroclor 1248	<0.1	ug/L	
Aroclor 1254	<0.1	ug/L	
Aroclor 1260	<0.1	ug/L	
Aroclor 1262	<0.1	ug/L	
Aroclor 1268	<0.1	ug/L	
Total PCBs	<0.1	ug/L	
Acenaphthene	<0.1	ug/L	
Acenaphthylene	<0.1	ug/L	
Acridine	<0.05	ug/L	
Anthracene	<0.1	ug/L	
Benzo(a)anthracene	<0.01	ug/L	
Benzo(a)pyrene	<0.01	ug/L	0.01 MAC
Benzo(b)fluoranthene	<0.01	ug/L	
Benzo(g,h,i)perylene	<0.1	ug/L	
Benzo(k)fluoranthene	<0.02	ug/L	
Chrysene	<0.1	ug/L	
Dibenzo(a,h,)anthracene	<0.01	ug/L	

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79675-01 Deep Bay Reservoir

Sampled By: Ijim

Sampling Date: 6 Apr 10 11:00

Test	Result	Units	Drinking Water Guideline
Fluoranthene	<0.1	ug/L	
Fluorene	<0.1	ug/L	
Indeno(1,2,3-c,d)pyrene	<0.1	ug/L	
Naphthalene	<0.1	ug/L	
Phenanthrene	<0.1	ug/L	
Pyrene	0.02	ug/L	
Quinoline	<3.4	ug/L	

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79675-01

Test	Method	Analyst	Date
Acenaphthene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Acenaphthylene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Acridine	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Alkalinity	Titration to 4.5	NiSL	09/04/2010
Anthracene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Aroclor 1016	US EPA Method, 8082-Exova Subcontract	EXL	13/04/2010
Aroclor 1221	US EPA Method, 8082-Exova Subcontract	EXL	13/04/2010
Aroclor 1232	US EPA Method, 8082-Exova Subcontract	EXL	13/04/2010
Aroclor 1242	US EPA Method, 8082-Exova Subcontract	EXL	13/04/2010
Aroclor 1248	US EPA Method, 8082-Exova Subcontract	EXL	13/04/2010
Aroclor 1254	US EPA Method, 8082-Exova Subcontract	EXL	13/04/2010
Aroclor 1260	US EPA Method, 8082-Exova Subcontract	EXL	13/04/2010
Aroclor 1262	US EPA Method, 8082-Exova Subcontract	EXL	13/04/2010
Aroclor 1268	US EPA Method, 8082-Exovat Subcontract	EXL	13/04/2010
Benzo(a)anthracene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Benzo(a)pyrene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Benzo(b)fluoranthene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Benzo(g,h,i)perylene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Benzo(k)fluoranthene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Chloride	Ion Chromatography		09/04/2010
Chrysene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Colour - Apparent	Apparent Color	EXL	13/04/2010
Conductivity	Conductivity meter	NiSL	09/04/2010
d-Aluminium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Antimony	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Arsenic	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Barium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Beryllium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Boron	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Cadmium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Calcium	ICP, APHA 3120B Exova Subcontract	EXL	13/04/2010
d-Chromium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Cobalt	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Copper	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Iron	ICP, APHA 3120B Exova Subcontract	EXL	13/04/2010

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d-Lead	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Lithium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Magnesium	ICP, APHA 3120B Exova Subcontract	EXL	13/04/2010
d-Manganese	ICP, APHA 3120B Exova Subcontract	EXL	13/04/2010
d-Molybdenum	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Nickel	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Phosphorus	ICP, APHA 3120B Exova Subcontract	EXL	13/04/2010
d-Potassium	ICP, APHA 3120B Exova Subcontract	EXL	13/04/2010
d-Selenium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Silicon	ICP, APHA 3120B Exova Subcontract	EXL	13/04/2010
d-Silver	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Sodium	ICP, APHA 3120B Exova Subcontract	EXL	13/04/2010
d-Strontium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Thallium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Tin	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Titanium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Uranium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Vanadium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Zinc	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
Dibenzo(a,h)anthracene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
E. coli (DES)	Colilert 18		06/04/2010
EPH (C10-C19)	Exova Subcontract Exova Subcontract	EXL	13/04/2010
EPH (C19-C32)	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Fecal Coliforms (MF)	MF- APHA 9222	Ni&L	06/04/2010
Fluoranthene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Fluorene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Fluoride	Ion Chromatography		09/04/2010
Hardness (CaCO ₃)	calc		13/04/2010
Hardness (CaCO ₃)	calculation	EXL	13/04/2010
Indeno(1,2,3-c,d)pyrene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
MRMW, PD30, VOC5W, PHG	Norwest Subcontract		
Naphthalene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Nitrate (N)	Ion Chromatography		09/04/2010
Nitrite (N)	Ion Chromatography		09/04/2010
pH	pH meter		07/04/2010
Phenanthrene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Pyrene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Quinoline	Exova Subcontract Exova Subcontract	EXL	13/04/2010

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Sulphate	Ion Chromatography		09/04/2010
T-Aluminium	Trace Metals (Total) in Water	EXL	13/04/2010
T-Antimony	Trace Metals (Total) in Water	EXL	13/04/2010
T-Arsenic	Trace Metals (Total) in Water	EXL	13/04/2010
T-Barium	Trace Metals (Total) in Water	EXL	13/04/2010
T-Boron	Trace Metals (Total) in Water	EXL	13/04/2010
T-Cadmium	Trace Metals (Total) in Water	EXL	13/04/2010
T-Calcium	Metals SemiTrace (Total) in Water	EXL	13/04/2010
T-Chromium	Trace Metals (Total) in Water	EXL	13/04/2010
T-Copper	Trace Metals (Total) in Water	EXL	13/04/2010
T-Iron	Metals SemiTrace (Total) in Water	EXL	13/04/2010
T-Lead	Trace Metals (Total) in Water	EXL	13/04/2010
T-Lithium	Trace Metals (Total) in Water	EXL	13/04/2010
T-Magnesium	Metals SemiTrace (Total) in Water	EXL	13/04/2010
T-Manganese	Trace Metals (Total) in Water	EXL	13/04/2010
T-Mercury	Mercury Low Level (Total) in water	EXL	13/04/2010
T-Nickel	Trace Metals (Total) in Water	EXL	13/04/2010
T-Phosphorus	Metals SemiTrace (Total) in Water	EXL	13/04/2010
T-Potassium	Metals SemiTrace (Total) in Water	EXL	13/04/2010
T-Selenium	Trace Metals (Total) in Water	EXL	13/04/2010
T-Silver	Trace Metals (Total) in Water	EXL	13/04/2010
T-Sodium	Metals SemiTrace (Total) in Water	EXL	13/04/2010
T-Uranium	Trace Metals (Total) in Water	EXL	13/04/2010
T-Zinc	Trace Metals (Total) in Water	EXL	13/04/2010
Total Ammonia (N)	Ammonia-N in Water	EXL	13/04/2010
Total Coliforms (DES)	Colilert 18		06/04/2010
Total Dissolved Solids	Solids Dissolved (Total, Fixed and Volatile) ²	EXL	13/04/2010
Total PCBs	US EPA Method, 8082-Exova Subcontract	EXL	13/04/2010
Turbidity	Nephelometric		06/04/2010

Approved By:

Catherine Black, Owner/Operator

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