



## Analytical Report

Norwest Labs  
#104, 19575-55 A Ave.  
Surrey, BC. V3S 8P8  
Phone: (604) 514-3322  
Fax: (604) 514-3323

**Bill to:** Discovery Islands Water Quality  
Services  
**Report to:** Discovery Islands Water Quality  
Services  
Box 180  
Quathiaski Cove, BC, Canada  
V0P 1N0  
Attn: Paul Flemming  
Sampled By:  
Company:

**Project**  
**ID:** Lot# 20 - Well #11305  
**Name:**  
**Location:**  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 406995  
**Control Number:**  
**Date Received:** Sep 08, 2005  
**Date Reported:** Sep 14, 2005  
**Report Number:** 744309

Page: 1 of 3

NWL Number	406995-1
Sample Date	Sep 07, 2005 12:30:00PM
Sample Description	Well Head / Sisken Lane, Cortex Island / Lot #20 - Well #11305
Sample Matrix	Water - General

Analyte	Units	Result	Detection Limit	Guideline Limit	Guideline Comments
<b>Metals Extractable</b>					
Aluminum	Extractable mg/L	0.008	0.005	0.1	Acceptable
Antimony	Extractable mg/L	<0.0002	0.0002	0.006	Pass
Arsenic	Extractable mg/L	0.0004	0.0002	0.025	Pass
Barium	Extractable mg/L	0.006	0.001	1	Pass
Boron	Extractable mg/L	0.004	0.002	5	Pass
Cadmium	Extractable mg/L	<0.00001	0.00001	0.005	Pass
Chromium	Extractable mg/L	0.0010	0.0005	0.05	Pass
Copper	Extractable mg/L	0.001	0.001	1	Acceptable
Lead	Extractable mg/L	0.0003	0.0001	0.01	Pass
Uranium	Extractable mg/L	<0.0005	0.0005	0.02	Pass
Zinc	Extractable mg/L	<0.001	0.001	5	Acceptable
<b>Microbiological Analysis</b>					
Total Coliforms	Enzyme Substrate TestMPN/100 mL	<1.0	1	<1	Pass
Escherichia coli	Enzyme Substrate TestMPN/100 mL	<1	1	<1	Pass
Heterotrophic Count - Aerobic	SimPlate MPN/mL	6	2	500	Acceptable
<b>Physical and Aggregate Properties</b>					
Colour	Apparent, Potable Colour units	7	5	15	Acceptable
Turbidity	NTU	2.4	0.1	5	Acceptable
Temperature	As Received °C	6.0	-		n/a
<b>Routine Water</b>					
pH		7.58	-	6.5 - 8.5	Acceptable
Sodium	Extractable mg/L	9.9	0.4	200	Acceptable
Iron	Extractable mg/L	0.36	0.03	0.3	Above Aesthetic
Manganese	Extractable mg/L	0.017	0.005	0.05	Acceptable
Chloride	Dissolved mg/L	8.5	0.4	250	Acceptable
Fluoride	mg/L	0.05	0.05	1.5	Pass
Nitrate - N	mg/L	0.05	0.01	10	Pass
Nitrite - N	mg/L	<0.005	0.005	1	Pass
Sulfate (SO4)	mg/L	2	0.9	500	Acceptable

Please Note: Related regulatory criteria are provided as a service to clients. Norwest Labs' responsibility is limited to analytical data. We are not responsible for ensuring that listed criteria are current, scientifically valid, appropriate and sufficient for the user of the data.



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Sample Matrix	Water - General

Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Routine Water - Continued						
T-Alkalinity	as CaCO3	mg/L	50	5	250–650	Low
Total Dissolved Solids		mg/L	66	1	500	Acceptable
Hardness	as CaCO3	mg/L	40	–		Soft

Approved by:

Bill Warning, B.Sc.  
Lab Operations Manager

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## Methodology and Notes

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Page: 3 of 3

### Method of Analysis:

MethodName	Reference	Method	Date Analysis Started	Location
Alkalinity, pH, and EC in water	APHA	* Electrometric Method, 4500-H+ B	12-Sep-05	Norwest Labs Edmonton
Alkalinity, pH, and EC in water	APHA	* Titration Method, 2320 B	12-Sep-05	Norwest Labs Edmonton
Anions (Routine) by Ion Chromatography	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	13-Sep-05	Norwest Labs Edmonton
Chloride in Water	APHA	* Automated Ferricyanide Method, 4500-Cl- E	13-Sep-05	Norwest Labs Edmonton
Colour (Apparent) in water	APHA	* Visual Comparison Method, 2120 B	13-Sep-05	Norwest Labs Edmonton
E. coli - Colilert	APHA	Enzyme Substrate Test, 9223 B	8-Sep-05	Norwest Labs Surrey
Heterotrophic (Standard) Plate Count (Aerobic SP) - Surrey	APHA	Heterotrophic Plate Count - Pour Plate Method, 9215 B	8-Sep-05	Norwest Labs Surrey
Metals ICP-MS (Extractable) in water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	13-Sep-05	Norwest Labs Edmonton
Metals Trace (Extractable) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	13-Sep-05	Norwest Labs Edmonton
Total Coliforms- Colilert	APHA	Enzyme Substrate Test, 9223 B	8-Sep-05	Norwest Labs Surrey
Turbidity in Water	APHA	* Nephelometric Method, 2130 B	13-Sep-05	Norwest Labs Edmonton

\* Norwest method(s) is based on reference method

### References:

APHA Standard Methods for the Examination of Water and Wastewater  
US EPA US Environmental Protection Agency Test Methods

### Comments:

Please direct any inquiries regarding this report to our Client Services group.  
Results relate only to samples as submitted

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## Certificate of Potability

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### Sample Description: Well Head / Sisken Lane, Cortex Island / Lot #20 - Well #11305

The above mentioned water sample number **406995 - 1** supplied by **Discovery Islands Water Quality Services** meets the chemical and bacteriological requirements specified by the Oct. 19th 2004 Guidelines for Canadian Drinking Water Quality for the constituents tested.

### Comments:

Approved by:

Bill Warning, B.Sc.  
Lab Operations Manager

### Note:

All reports are the confidential property of our clients. Publication of statements, conclusions or extracts from or regarding our report is not permitted without our written approval. Any liability attached thereto is limited to the fee charged.

