

Services

Services

Box 180

V0P 1N0

Attn: Paul Flemming

Bill to: Discovery Islands Water Quality

Quathiaski Cove, BC, Canada

Report to: Discovery Islands Water Quality

Certificate of Potability

Norwest Labs #104, 19575-55 A Ave. Surrey, BC, V3S 8P8

(604) 514-3322 Phone: Fax: (604) 514-3323

NWL Lot ID: 407325

Control Number:

Date Received: Sep 09, 2005

Date Reported: Sep 15, 2005

Report Number: 745022

ID: Name:

Project

Location:

Siske Lane Cortez Island

Well Head # 11309 - Lot # 15

LSD:

P.O.:

Acct. Code:

Sampled By: Company:

Page: 1 of 1

Sample Description: Siske Lane Cortez Island / Well Head # 11309 - Lot # 15

The above mentioned water sample number 407325 - 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:

Marie England **Consulting Scientist**

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Report Transmission Cover Page

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Contact	Company	Address
Paul Flemming	Cash Account	Box 180
Web		Quathiaski Cove, BC V0P 1N0
Email Notification		Phone: (250) 830-3744 Fax:
Copies Delivery	Strategy Format	Email: thewaterguy@uniserve.com
1 Post		
1 Email - S	Single Report PDF	

NOTE: P indicates a preliminary report is required

NOTE: A indicates report is delivered using automated delivery

_____ # OF PAGES IN THIS TRANSMISSION

Report Transmission Notes

Agreement Notes

Lot Notes

Sample Notes:

Notes to Clients

Lot Notes:

Sample Notes:

Batch Notes:

Method Notes:

Method Result Notes:

Reports associated with this Lot

<u>Id/Format/Reported Date</u> 745022 Env Guide No Disp Id/Format/Reported Date

Id/Format/Reported Date

Comment:

See Methodology and Notes page of Analytical Report for all comments pertaining to this report.

If this report transmission is not satisfactory, please send report requirements to the address at the top of this page.



Analytical Report

Norwest Labs #104, 19575-55 A Ave. Surrey, BC. V3S 8P8

Phone: (604) 514-3322 Fax: (604) 514-3323

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Attn: Paul Flemming

Sampled By: Company: Project

ID: Well Head # 11309 - Lot # 15

Name:

Location: Siske Lane Cortez Island

LSD: P.O.:

Acct. Code:

NWL Lot ID: 407325

Control Number:

Date Received: Sep 09, 2005

Date Reported: Sep 15, 2005

Report Number: 745022

Page: 1 of 3

NWL Number

Sample Date Sep 08, 2005 10:30:00AM

Sample Description Siske Lane Cortez Island / Well Head # 11309 - Lot

15

407325-1

Sample Matrix Water - General

Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	0.010	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	0.004	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	0.0006	0.0005	0.05	Pass
Copper	Extractable	mg/L	0.002	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
Microbiological Anal	ysis	-				•
Total Coliforms	Enzyme Substrate Te	estMPN/100 mL	<1.0	1	<1	Pass
Escherichia coli	Enzyme Substrate Te	estMPN/100 mL	<1	1	<1	Pass
Heterotrophic Count -	SimPlate	MPN/mL	<2	2	500	Acceptable
Aerobic						
Physical and Aggreg	gate Properties					
Colour	Apparent, Potable	Colour units	10	5	15	Acceptable
Turbidity		NTU	2.3	0.1	5	Acceptable
Temperature	As Received	°C	5.0	_		n/a
Routine Water						
рН			7.64	_	6.5 - 8.5	Acceptable
Sodium	Extractable	mg/L	10.7	0.4	200	Acceptable
Iron	Extractable	mg/L	0.26	0.03	0.3	Acceptable
Manganese	Extractable	mg/L	0.014	0.005	0.05	Acceptable
Chloride	Dissolved	mg/L	8.7	0.4	250	Acceptable
Fluoride		mg/L	<0.05	0.05	1.5	Pass
Nitrate - N		mg/L	0.07	0.01	10	Pass
Nitrite - N		mg/L	<0.005	0.005	1	Pass
Sulfate (SO4)		mg/L	1	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.



Analytical Report

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V0P 1N0

Attn: Paul Flemming

Sampled By: Company: **Project**

ID: Well Head # 11309 - Lot # 15

Name:

Location: Siske Lane Cortez Island

LSD: P.O.:

Acct. Code:

NWL Lot ID:

407325

Control Number:

Sep 09, 2005 Date Received:

Date Reported: Sep 15, 2005

Report Number: 745022

Page: 2 of 3

NWL Number

Sample Date

407325-1

Sep 08, 2005 10:30:00AM

Sample Description Siske Lane Cortez Island / Well Head # 11309 - Lot

15

Sample Matrix Water - General

Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Routine Water - Conti	nued					
T-Alkalinity	as CaCO3	mg/L	61	5	250-650	Low
Total Dissolved Solids		mg/L	75	1	500	Acceptable
Hardness	as CaCO3	mg/L	47	-		Soft

Approved by:

Marie England Consulting Scientist

Parei England

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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	14-Sep-05	Norwest Labs Edmonton	
Alkalinity, pH, and EC in water	APHA	*	Titration Method, 2320 B	14-Sep-05	Norwest Labs Edmonton	
Anions (Routine) by Ion Chromatography	APHA	*	Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	14-Sep-05	Norwest Labs Edmonton	
Chloride in Water	APHA	*	Automated Ferricyanide Method, 4500-Cl- E	14-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	9-Sep-05	Norwest Labs Surrey	
Heterotrophic (Standard) Plate Count (Aerobic SP) - Surrey	APHA		Heterotrophic Plate Count - Pour Plate Method, 9215 B	9-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	14-Sep-05	Norwest Labs Edmonton	
Metals Trace (Extractable) in water	АРНА	*	Inductively Coupled Plasma (ICP) Method, 3120 B	14-Sep-05	Norwest Labs Edmonton	
Total Coliforms- Colilert	APHA		Enzyme Substrate Test, 9223 B	9-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:



Legal Description & Address

Descriptive Location_

Owners Name & Address Kenewal ha

Lotis

1 X New Well

3 🗌 Deepened

5. MEASUREMENTS from 1 \bigcirc ground level 2 \square top of casing

casing height above ground level _

6. WELL LOG DESCRIPTION

uel

Other _ 1 Domestic

WELL USE4 Comm. & Ind.

4. DRILLING ADDITIVES

BCGSMAP

I. TYPE

2. WORK METHOD

3. WATER

FROM ft

3 69

6987

87/105

105113

113 145

145/148

154

170

OF WORK

BC Environment

WATER

2 🗆 Reconditioned

3 ☐ Irrigation

4 🗌 Abandoned

1 □ Cable tool 2 □ Bored 3 □ Jetted 4 🖔 Rotary a □ mud b 🕱 air c □ reverse

2 🗌 Municipal

☐ Other

WELL

N

Water M	anagem	ent Bra				
L RECO	RD		Date l	<u>0,510</u>	2710	#
L L ELEV				Location Accuracy		
U T Date I	7	Vell Type				THE PROPERTY AND THE PR
au Duite	610		o Ca	mbie	SF	
- (Van	cou	ier B	e 165	3 am
				ulele	(DHI	1300
9. CASING: Materials	4 🔲		2 🗆 G 5 🗆 G	ialvanized Concrete	3 🗆 W	/ood
Hole Diameter	<u> </u>	Other _	1		T	units
Diameter 6					 	ins
from HD	- I					ft ft
Thickness 310) 					ins
Weight					<u> I </u>	lb/ft
Pitless unit1 \(\mathbb{D} \) Welded 2 \(\mathbb{E} \)				□ below o		
Perforations:			1111.600.6	a 1 U	ivew 2	
Shoe(s): On.	<i>ž</i> 5	ix in	r.l.			
Open hole, from _		_ to	f	t Diam	eter	in:
Grout: Beno	_					
IO. SCREEN: Type 1 🖄 C					•	
	Other					_ouvre
Material 1 💥 S Set from <u>33</u>	Stainless 1to_	Steel 235	∏ Plosi ≧fi bel	tic E ow groun	JOiher⊥ d level	
	RISER, S	CREEN 8	BLANKS	5		units
Length 48		-				ft
Slot Size 104	6					ins
from 331						fi
Fittings, top_	K-r	socke	n bott	om b	lank	<u> ft</u> 2
Gravel Pack _	1					32
II. DEVELOPE[4 🖄 Bailin						□Air
I2.TEST1□Pu	mp 2 🗆	Bail 3 (] Air [Date L		
Rate US	Sgpm	Temp	°C	SWL befo	re test_	f
Water Level DRAWDO			,	hrs □ RECOV	FPY in fi	
<u> </u>	mins	WL		WL	mins	WL
	1 1 1			† † †		
1]]]			t t		
13. RECOMMENDED PUMP	TYPE	RECOMMEN	DED PUMP S	ETTING RECO	MMENDED PU	
I4.WATER TYP	PE:1 🔀	fresh 2	□solty		or 4 [USgpn]cloudy
colour						
15. WATER ANA	LYSIS	: 1	Hardnes	ss []		l mg/L

4-16-	
176 198 Chey mediun grains	Water Levelff after
silty sand.	☐ DRAWDOWN in ft
198210 Tan Coarse gravied	mins WL mins W
Stoney Sand (tight)	
210 936 Tan water bearing	
medium grained sal	
	13. RECOMMENDED PUMP TYPE RECO
	14. WATER TYPE: 1 Defres
WATER QUALITY & QUANTITY	coloursmell_
NOT GUARANTEED BY	15. WATER ANALYSIS:
CONSULTANT THE CONTRACTOR	2 Iron mg/L
Addi C 33	4 pH
.WELL LOCATION SKETCH	[OIT 10 A)

Lab Date L SITE ID No approx. 16. FINAL WELL COMPLETION DATA Well Depth | 236ft Static Water Level 304ft Ar

	Well Yield			101	US	gpm	
tesian ow		US	gpm	Pressure Head		<u> </u>	
I	rial.						

3 Chloride mg/L Field Date ______

EIR I 17. DRILLER VARL

Well Head Completion Durgase

Back filled Native

18. CONTRACTOR, Address

980 PRATT ROAD

XLyes QUALICUM BEACH, BC

vov iwe

Member, B C G W A