

Siskin Lane

Lot 4 Water Testing Results And Well Log

Certificate of Potability and Water Report

As outlined in the Canadian Safe Drinking Water Guidelines

April 2006



Certificate of Potability

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

Phone: (604) 514-3322

(604) 514-3323 Fax:

Bill to: Discovery Islands Water Quality

Services

Report to: Discovery Islands Water Quality

Services

Box 180

Quathiaski Cove, BC, Canada

VOP 1NO

Attn: Paul Flemming

Sampled By: Company: **Project**

ID:

Lot#4 - Well # 11302

Name:

Location:

LSD:

P.O.:

Acct. Code:

NWL Lot ID: 406990

Control Number:

Date Received: Sep 08, 2005

Date Reported: Sep 14, 2005

Report Number: 744255

Page: 1 of 1

Sample Description: Well Head / Sisken Lane, Cortex Island / Lot #4 - Well # 11302

The above mentioned water sample number 406990 - 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:

Bill Warning, B.Sc. Lab Operations Manager

William Warning

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.



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 Strate	gy <u>Format</u>	Email: thewaterguy@uniserve.com	
1 Post			
1 Email - Single I	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>744255 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

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P.O.:

Acct. Code:

NWL Lot ID:

406990

Control Number:

Sep 08, 2005 Date Received: Sep 14, 2005 Date Reported:

Report Number: 744255

Page: 1 of 3

NWL Number

406990-1 Sample Date

Sample Description

Sep 08, 2005 11:00:00AM

Well Head / Sisken Lane, Cortex Island / Lot #4 -

Well # 11302

Sample Matrix Water - General

Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	0.021	0.005	0.1	Acceptable
Antimony	Extractable	mg/L	<0.0002	0.0002	0.006	Pass
Arsenic	Extractable	mg/L	0.0006	0.0002	0.025	Pass
Barium	Extractable	mg/L	0.004	0.001	1	Pass
Boron	Extractable	mg/L	0.005	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	0.005	0.001	1	Acceptable
Lead	Extractable	mg/L	0.0016	0.0001	0.01	Pass
Uranium	Extractable	mg/L	<0.0005	0.0005	0.02	Pass
Zinc	Extractable	mg/L	0.004	0.001	5	Acceptable
Microbiological Anal	vsis	· ·				•
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	26	2	500	Acceptable
Aerobic						
Physical and Aggreg	ate Properties					
Colour	Apparent, Potable	Colour units	16	5	15	Above Aesthetic
Turbidity		NTU	10.3	0.1	5	Above Asethetic
Temperature	As Received	°C	6.0	_		n/a
Routine Water						
pH			7.59	-	6.5 - 8.5	Acceptable
Sodium	Extractable	mg/L	9.0	0.4	200	Acceptable
Iron	Extractable	mg/L	0.95	0.03	0.3	Above Aesthetic
Manganese	Extractable	mg/L	0.026	0.005	0.05	Acceptable
Chloride	Dissolved	mg/L	6.9	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	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.



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V0P 1N0

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Sampled By: Company: **Project**

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Name: Location: LSD:

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406990

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Sep 08, 2005 Date Received: Date Reported: Sep 14, 2005

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Page: 2 of 3

NWL Number

Sample Date

Sample Description

406990-1

Sep 08, 2005 11:00:00AM

Well Head / Sisken Lane, Cortex Island / Lot #4 -

Well # 11302

Sample Matrix Water - General

Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Routine Water - Conti	nued					
T-Alkalinity	as CaCO3	mg/L	43	5	250-650	Low
Total Dissolved Solids		mg/L	56	1	500	Acceptable
Hardness	as CaCO3	mg/L	33	-		Soft

Bill Warning, B.Sc. Lab Operations Manager

C William Warning

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Methodology and Notes

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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	APHA	* Ion Chromatography with Chemical	13-Sep-05	Norwest Labs Edmonton	
Chromatography		Suppression of Eluent Cond., 4110 B			
Chloride in Water	APHA	* Automated Ferricyanide Method,	13-Sep-05	Norwest Labs Edmonton	
		4500-Cl- E			
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	APHA	Heterotrophic Plate Count - Pour Plate	8-Sep-05	Norwest Labs Surrey	
Count (Aerobic SP) - Surrey		Method, 9215 B			
Metals ICP-MS (Extractable) in	US EPA	* Determination of Trace Elements in	13-Sep-05	Norwest Labs Edmonton	
water		Waters and Wastes by ICP-MS, 200.8			
Metals Trace (Extractable) in water	APHA	* Inductively Coupled Plasma (ICP)	13-Sep-05	Norwest Labs Edmonton	
		Method, 3120 B			
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:



Water Management Branch, Groundwater Section

Date 05 10 5 10 91	111011, 0	COUNTRY		,000,000
IN ING DI	Date	<u>0</u> 5	10 S	10,91

***				OM RY	DY
BCGSMAP L L L L L L L L L L L L L L L L L L L	WELL No. L	N T Date 19	Well Type	Location Accuracy	
Owners Name & Address Renewal La	nd Comp	any Site	610-22	.0 Campi	e St
Legal Description & Address		l Van	control	Be NOT	5 ans
Descriptive Location Lot 4					
I. TYPE 1 New Well 2 Re OF WORK 3 Deepened 4 Ab	conditioned pandoned	9. CASING: Materials	4 Plastic 5	2 □ Galvanized 3 [5 □ Concrete	
2. WORK 1 Cable tool 2 Bored Thomas METHOD 1 Cable tool 2 Bored Thomas METHOD 1 Cable tool 2 Bored Thomas METHOD 1 Cable tool 2 Bored Thomas Methods Thomas		Hote Diameter	□ Other		units ins
3. WATER 1 Domestic 2 Municipal WELL USE4 Comm. & Ind. Other	3 🗌 Irrigation	Diameter 6 from +3 to 369			ft ft
4. DRILLING ADDITIVES		Thickness			ins
5. MEASUREMENTS from 1 Aground level 2	top of casina	Weight			lb/ft
casing height above ground level			f† 1 □ above Cemented 3 □ Thr		
FROM TO 6. WELL LOG DESCRIPTION	SWL ft	Perforations:			
0 1 Brown Cobbley to 1 3 Brown sand. 3 5 Chey Sand.		Open hole, from	_ 51× ino		ins
5 12 Chey Killy Sand	2 marker	Grout:	X Nominal (Telescope	о Прісь C	
12 63 Chey Silt & graves 63 71 Silet, pay medury	LTN	Type 1 🗷 Co	ontinuous Slot 2 ther	Perforated 3	
71 78 Sulty oney Sand	0	Material 1 🗷 St	tainless Steel 2 🗆 123 to 272 ft	Plastic Othe	rvel
graned tight	XXXX:1	, R	IISER, SCREEN & BL	_ANKS	units
US 86 Bamp oney med	WH	Length 495			ft ins
gained sard (br	المحمدر	Slot Size Sta			ins
86 16+ Cpey Silly Medium	Qualified	from 367'2			f1
darld, stight	ŷ	to 273	K-packer	Lbottom bea	JR".
164 171 Brown silty tralt		Gravel Pack		·····	
Sand, tight			J. · · □ Surging J 5 □ Pumpin		
175 181 Cray reduly grain	1 1 0	I2. TEST 1 □ Pun	np 2 □Bail 3 □ Ai	ir Date L	MO DY
10: 0	mained	RateUS	gpm Temp <u> </u>	C SWL before tes	stfl
	1 sald	☐ DRAWDO		☐ RECOVERY i	in ft
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25972 Water bearing	fine	1 1	1 1 5	2 2 3 5	
gared grey sa	x d .			i	1
		13. RECOMMENDED PUMP	TYPE RECOMMENDED	PUMP SETTING RECOMMENDE	
WATER-QUALITY & QUANT NOT GUARANTEED BY	1 1		E:1		
THE CONTRACTOR			smell LYSIS: 1 Ho		i, i,
CONSULTANT		2 Iron	mg/L 3 Ch		mg/L mg/L
Address		4 pH L	1 1	Field Date L	
NELL LOCATION SKETCH	SITE	I D No		Lab Date L	MO DY
	16. FINAL W	ELL COMPLETION	ON DATA	xpprox	
					JS gpm
mos bu		r Level 1313111		US gpm Pressure L	f
PC	1	Native Ren	_	10/000 5	5000
		ell cap			
	17. DRILLER	PARK ER	ie LiiiRC	BIERT	
		Signature TOR, KL) W	LLAMSWE		CIIN
	18. CONTRAC	.IUH, ENELS VV	ulawa we. 12 PRAT		JULU
	Membe	r, B C G W A Wes	QUALICUM I	BEACH, BC	
	1	•	TANK 4	e erring	

VOK 1W5