

Site Location: BERWICK WELLS
 Your C.O.C. #: G023228, G023230

Attention: BOB WEIR
 Town of Qualicum Beach
 201-660 Primrose St
 P.O. Box 130
 Qualicum Beach, BC
 Canada V9K 1S7

Report Date: 2011/10/20

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B195257
Received: 2011/10/05, 09:20

Sample Matrix: DRINKING WATER
 # Samples Received: 18

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Colour (True)	3	N/A	2011/10/08	BBY6SOP-00021	SM-2120B
Hardness Total (calculated as CaCO3)	3	N/A	2011/10/17		
ICP-AES Total Metals in Water	3	2011/10/17	2011/10/17	65-S-060	EPA 200.7
Nitrogen (Total)	3	2011/10/14	2011/10/14	BBY6SOP-00022	SM-4500N C
Ammonia-N	3	N/A	2011/10/13	BBY6SOP-00009	SM-4500NH3G
Nitrate + Nitrite (N)	3	N/A	2011/10/09	BBY6SOP-00010	USEPA 353.2
Nitrate + Nitrite (N)	3	N/A	2011/10/20	BBY6SOP-00010	USEPA 353.2
Nitrite (N) by CFA	3	N/A	2011/10/09	BBY6SOP-00010	EPA 353.2
Nitrogen - Nitrate (as N)	3	N/A	2011/10/13	BBY6SOP-00010	Based on EPA 353.2
pH Water	3	N/A	2011/10/11	BBY6SOP-00026	SM-4500H+B
Total Dissolved Solids (Filt. Residue)	3	2011/10/18	2011/10/18	BBY6SOP-00033	SM 2540C
TKN (Calc. TN, N/N) total	3	N/A	2011/10/20		
Carbon (Total Organic)	3	N/A	2011/10/13	BBY6SOP-00003	SM-5310C
Total Phosphorus	3	N/A	2011/10/12	BBY6SOP-00013	SM 4500
Turbidity	3	N/A	2011/10/11	BBY6SOP-00027	SM - 2130B

* Results relate only to the items tested.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

LANOY LUANGKHAMDENG, Burnaby Customer Service
 Email: LLuangkhamdeng@maxxam.ca
 Phone# (604) 638-2636

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 This report has been generated and distributed using a secure automated process.
 Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Maxxam Job #: B195257
 Report Date: 2011/10/20

Town of Qualicum Beach

Site Location: BERWICK WELLS

RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER

Maxxam ID		BS7905	BS7906	BS7907	BS7908	BS7909	BS7910	BS7911	BS7912	BS7913	BS7914		
Sampling Date		2011/10/04 08:58	2011/10/04 08:35	2011/10/04 09:10	2011/10/04 08:59	2011/10/04 08:36	2011/10/04 08:12	2011/10/04 09:00	2011/10/04 08:36	2011/10/04 09:11	2011/10/04 09:01		
COC#		G023228	G023228	G023228	G023228	G023228	G023228	G023228	G023228	G023228	G023228		
	Units	BERWICK #1	BERWICK #2	BERWICK #3	BERWICK #1	BERWICK #2	BERWICK #3	BERWICK #1	BERWICK #2	BERWICK #3	BERWICK #1	RDL	
ANIONS													
Nitrite (N)	mg/L											<0.005	0.005
Calculated Parameters													
Total Hardness (CaCO ₃)	mg/L				150	134	127						0.5
Nitrate (N)	mg/L										0.60		0.02
MISCELLANEOUS													
True Colour	Col. Unit	<5 ⁽¹⁾	<5 ⁽¹⁾	<5 ⁽¹⁾									5
Nutrients													
Total Total Kjeldahl Nitrogen (Calc)	mg/L							0.25	0.06	0.08			0.02
Nitrate plus Nitrite (N)	mg/L							0.38 ⁽²⁾	0.64 ⁽²⁾	0.53 ⁽²⁾	0.60		0.02
Total Nitrogen (N)	mg/L							0.64	0.70	0.60			0.02
Total Phosphorus (P)	mg/L							0.013	0.015	0.018			0.005
Physical Properties													
pH	pH Units	8.06	8.06	8.10									
Physical Properties													
Total Dissolved Solids	mg/L	160 ⁽³⁾	150 ⁽³⁾	140 ⁽³⁾									10
Turbidity	NTU	<0.1 ⁽¹⁾	<0.1 ⁽¹⁾	<0.1 ⁽¹⁾									0.1

RDL = Reportable Detection Limit

(1) - Analysis requested past recommended holding time

(2) - Sample analysed past recommended hold time

(3) - Sample analyzed after hold time expired

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Town of Qualicum Beach

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RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER

Maxxam ID		BS7915	BS7916	BS7917	BS7918	BS7919	BS7920	BS7921	BS7922	
Sampling Date		2011/10/04 08:37	2011/10/04 09:13	2011/10/04 09:02	2011/10/04 08:39	2011/10/04 09:14	2011/10/04 09:05	2011/10/04 08:40	2011/10/04 09:15	
COC#		G023228	G023228	G023230	G023230	G023230	G023230	G023230	G023230	
	Units	BERWICK #2	BERWICK #3	BERWICK #1	BERWICK #2	BERWICK #3	BERWICK #1	BERWICK #2	BERWICK #3	RDL
ANIONS										
Nitrite (N)	mg/L	<0.005	<0.005							0.005
Calculated Parameters										
Nitrate (N)	mg/L	0.69	0.60							0.02
Misc. Inorganics										
Total Organic Carbon (C)	mg/L						0.8	0.6	0.9	0.5
Nutrients										
Ammonia (N)	mg/L			0.073	0.012	0.040				0.005
Nitrate plus Nitrite (N)	mg/L	0.69	0.60							0.02

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Maxxam ID		BS7908	BS7909	BS7910	
Sampling Date		2011/10/04 08:59	2011/10/04 08:36	2011/10/04 08:12	
COC#		G023228	G023228	G023228	
	Units	BERWICK #1	BERWICK #2	BERWICK #3	RDL
Total Metals by ICP					
Total Iron (Fe)	mg/L	0.04	0.02	<0.01	0.01
Total Calcium (Ca)	mg/L	35.3	27.5	27.3	0.05
Total Magnesium (Mg)	mg/L	15.0	15.8	14.2	0.05

RDL = Reportable Detection Limit

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Package 1	2.7°C
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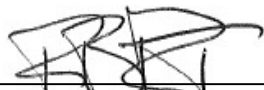
Each temperature is the average of up to three cooler temperatures taken at receipt

General Comments

Validation Signature Page

Maxxam Job #: B195257

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



ROB REINERT, Data Validation Coordinator

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G 023230

Maxxam Job#: B195257

Invoice To: Require Report? Yes No

Report To: TOWN OF QUALICUM BEACH

Company Name: TOWN OF QUALICUM BEACH

Company Name: TOWN OF QUALICUM BEACH

Contact Name: _____

Contact Name: _____

Address: _____

Address: _____

PC: _____

PC: _____

Phone / Fax#: Ph: _____ Fax: _____

Phone / Fax#: Ph: _____ Fax: _____

E-mail: _____

E-mail: _____

PO #:	
Quotation #:	
Project #:	
Proj. Name:	
Location:	<u>BERWICK WELLS</u>
Sampled By:	

REGULATORY REQUIREMENTS SERVICE REQUESTED:

- CSR
- CCME
- BC Water Quality
- Other
- DRINKING WATER
- Regular Turn Around Time (TAT) (5 days for most tests)
- RUSH (Please contact the lab)
- 1 Day 2 Day 3 Day

Special Instructions:

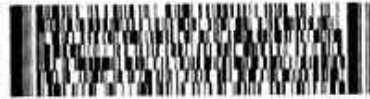
Return Cooler Ship Sample Bottles (please specify)
See Pg #1

* ALL SAMPLES ARE RAW WATER

ANALYSIS REQUESTED

Sample #	Sample Description	MTBE	TEH	LEPH/EPH	PCB	Phenols by GC/MS	TOG	Dissolved Metals	Total Metals Field Analyzed?	Nitrate	Chloride	Total Suspended Solids TSS	pH	BOD	COO	Boilform, Total & Ecof	Asbestos	Fecal	HOLD	
1	BERWICK #1																			
2	BERWICK #2																			
3	BERWICK #3																			
4	BERWICK #1																			
5	BERWICK #2																			
6	BERWICK #3																			

Sample Identification	Lab Identification	Sample Type	Date/Time Sampled
1 BERWICK #1	BS 7917	H ₂ O	02-14/11 9:02
2 BERWICK #2	BS 7918	"	02-14/11 8:39
3 BERWICK #3	BS 7919	"	02-14/11 9:14
4 BERWICK #1	BS 7920	"	02-14/11 9:05
5 BERWICK #2	BS 7921	"	02-14/11 8:40
6 BERWICK #3	BS 7922	"	02-14/11 9:15



B195257

YES NO
 YES NO
 Samples are from a Drinking Water Source?
 Does source supply multiple households?

Relinquished by: <u>P. Buvell</u>	Date (YY/MM/DD): <u>11/10/04</u>	Time: <u>10:00 am</u>	Received by: <u>NICOLE LOCKYER</u>	Date (YY/MM/DD): <u>11/10/05</u>	Time: <u>09:20</u>	Time Sensitive: <input type="checkbox"/>	Temperature on Receipt (°C): <u>2,3,3</u>	Custody Seal Intact on Cooler? <u>NA</u>
							Yes <input type="checkbox"/>	No <input type="checkbox"/>

IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.