Province of British Columbia

BC Environment

Water Management Division

WATER WELL RECORD

Date 93 09 01 (YR MO DY)

NTS MAP ____ WELL No. ____ ELEV ____ Location Accuracy ____

UTM Z ____ E ____ N ____ UTM Date 19__ Well Type ____

Owners Name & Address Ken French,

Legal Description & Address 159 Head Street, R.R.# 4, Ganges, B.C. V0S 1E0

Descriptive Location Well site - Stark Road, Ganges, B.C.

1. TYPE OF WORK 1 [X] New Well 2 [ ] Reconditioned 3 [ ] Deepened 4 [ ] Abandoned

2. WORK METHOD 1 [ ] Cable tool 2 [ ] Bored 3 [ ] Jetted 4 [X] Rotary a [ ] mud b [ ] air c [ ] reverse [ ] Other ____

3. WATER WELL USE 1 [X] Domestic 2 [ ] Municipal 3 [ ] Irrigation 4 [ ] Comm. & Ind. [ ] Other ____

4. DRILLING ADDITIVES ____

5. MEASUREMENTS from 1 [X] ground level 2 [ ] top of casing

casing height above ground level ____ ft.

FROM ft	TO ft	6. WELL LOG DESCRIPTION	SWL ft
		Drilled 175 feet with 15 feet of casing installed.	
0	6	sandstone	
6	7	sand	
7	90	sandstone	
90	175	granite & quartz	
		water @ 130' = 7 gpm.	
		@ 150' = aprox. 50 gpm.	
		@ 165' = aprox. 10 gpm.	
		total water yield = 60+ gpm.	

7. CONSULTANT ____

Address ____

8. WELL LOCATION SKETCH

SITE I D No ____

9. CASING: Materials 1 [X] Steel 2 [ ] Galvanized 3 [ ] Wood 4 [ ] Plastic 5 [ ] Concrete [ ] Other ____

							units
Hole Diameter							ins
Diameter							ins
from							ft
to							ft
Thickness							ins
Weight							lb/ft

Pitless unit ____ ft 1 [ ] above 2 [ ] below ground level

1 [ ] Welded 2 [ ] Cemented 3 [ ] Threaded | 1 [ ] New 2 [ ] Used

Perforations: ____

Shoe(s): ____

Open hole, from ____ to ____ ft Diameter ____ ins

Grout: ____

10. SCREEN: 1 [ ] Nominal (Telescope) 2 [ ] Pipe Size

Type 1 [ ] Continuous Slot 2 [ ] Perforated 3 [ ] Louvre [ ] Other ____

Material 1 [ ] Stainless Steel 2 [ ] Plastic [ ] Other ____

Set from ____ to ____ ft below ground level

RISER, SCREEN & BLANKS							units
Length							ft
Diam. I D							ins
Slot Size							ins
from							ft
to							ft

Fittings, top ____ bottom ____

Gravel Pack ____

11. DEVELOPED BY: 1 [ ] Surging 2 [ ] Jetting 3 [ ] Air 4 [ ] Bailing 5 [ ] Pumping [ ] Other ____

12. TEST 1 [ ] Pump 2 [ ] Bail 3 [ ] Air Date (YR MO DY) ____

Rate ____ USgpm Temp ____ °C SWL before test ____ ft

Water Level ____ ft after test of ____ hrs

[ ] DRAWDOWN in ft				[ ] RECOVERY in ft			
mins	WL	mins	WL	mins	WL	mins	WL

13.

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING ft	RECOMMENDED PUMPING RATE USgpm

14. WATER TYPE: 1 [ ] fresh 2 [ ] salty 3 [ ] clear 4 [ ] cloudy

colour ____ smell ____; gas 1 [ ] yes 2 [ ] no

15. WATER ANALYSIS: 1 Hardness ____ mg/L 2 Iron ____ mg/L 3 Chloride ____ mg/L 4 pH ____

Field Date ____

Lab Date (YR MO DY) ____

16. FINAL WELL COMPLETION DATA

08

Agrichem Analytical

Drinking Water Report

409 Stewart Rd
Salt Spring Island, BC
V8K 1Y6

Phone/Fax: 250.538.1712
web: www.agrichem.ca
email: info@agrichem.ca

Emma-Louise Elsin
321 Stark's Rd pumphouse

current treatment
unknown

sample 41420
date received 17-Jun-08
time/temperature 14:40 7 °C
date of report 25-Jun-08
sampled by agrichem

			Potable Water Quality Standards	
			Health Canada (2004)	Island Trust (2001)
Total Coliforms	< 1	MPN/100ml	<1	<1
E. coli	< 1	MPN/100ml	<1	<1
pH	6.21		6.5 to 8.5 *	6.5 to 8.5 *
Conductivity	376	uS/cm	700 **	
Arsenic (As)	< 1	ug/l	10	10
Hardness (as CaCO3)	170	mg/L	80-100	80-100
Sodium (Na)	13	mg/L	200 ***	200 ***
Potassium (K)	<0.1	mg/L	no limit set	
Magnesium (Mg)	9.6	mg/L	500 *	
Calcium (Ca)	52.4	mg/L	no limit set	
Iron (Fe)	<0.03	mg/L	0.3 *	0.3 *
Copper (Cu)	<0.01	mg/L	1 *	
Manganese (Mn)	0.06	mg/L	0.05 *	0.05 *
Zinc (Zn)	0.02	mg/L	5 *	
Turbidity	<0.05	NTU	****	1
Fluoride (F)	0.5	mg/L	1.5 **	1.5

< is " less than " > is "greater than "

* aesthetic
** maximum
*** 20 mg/L for restricted diets

**** surface water or surface influenced groundwater (drilled well) source 1 NTU **
secure groundwater (drilled well) source 5 NTU *
the presence of Total Coliform bacteria indicates surface influenced water source

This water sample meets the Health Canada guidelines for potability for all parameters tested. The guidelines for pH and Manganese are aesthetic objectives only.

metals and minerals are digested as per APHA 3030E2

John Harris BSc

07

Agrichem Analytical

Drinking Water Report

409 Stewart Rd
Salt Spring Island, BC
V8K 1Y6

Phone/Fax: 250.538.1712
web: www.agrichem.ca
email: info@agrichem.ca

Duncan Elsey
321 Starks Rd. - well-head

current treatment
none

sample 31630
date received 23-Feb-07
time/temperature 17:10 5 °C
date of report 26-Feb-07
sampled by agrichem

			Potable Water Quality Standards Health Canada (2004)	Island Trust (2001)
Total Coliforms	1	MPN/100ml	<1	<1
E. coli	< 1	MPN/100ml	<1	<1
pH	6.22		6.5 to 8.5 *	6.5 to 8.5 *
Conductivity	360	uS/cm	700 **	
Arsenic (As)	< 1	ug/l	25	25
Hardness (as CaCO3)	148	mg/L	80-100	80-100
TDS (by calculation)	260	mg/L	500	500
Chloride	11.8	mg/L	250 *	250 *
Nitrate (N)	0.1	mg/L	10 **	10 **
Phosphate (P)	<0.1	mg/L	no limit set	no limit set
Sulphate (S)	5.7	mg/L	500 *	500 *
Sodium (Na)	16	mg/L	200 ***	200 ***
Potassium (K)	<0.1	mg/L	no limit set	
Magnesium (Mg)	7.8	mg/L	500 *	
Calcium (Ca)	46.6	mg/L	no limit set	
Iron (Fe)	<0.05	mg/L	0.3 *	0.3 *
Copper (Cu)	0.02	mg/L	1 *	
Manganese (Mn)	<0.02	mg/L	0.05 *	0.05 *
Zinc (Zn)	0.02	mg/L	5 *	
Turbidity	<0.05	NTU	****	1
Fluoride (F)	0.1	mg/L	1.5 **	1.5
Alkalinity (as CaCO3)	141	mg/L	no limit set	
Residual Chlorine	<0.02	mg/L		0

< is " less than " > is "greater than "

* aesthetic
** maximum
*** 20 mg/L for restricted diets

**** surface water or surface influenced groundwater (drilled well) source 1 NTU **
secure groundwater (drilled well) source 5 NTU *
the presence of Total Coliform bacteria indicates surface influenced water source

This water sample meets the Health Canada guidelines for potability for all parameters tested except Total Coliforms. pH is an Aesthetic Objective only.

metals and minerals are digested as per APHA 3030E2

John Harris BSc

09.

Agrichem Analytical

Drinking Water Report

409 Stewart Rd
Salt Spring Island, BC
V8K 1Y6

Phone/Fax: 250.538.1712
web: www.agrichem.ca
email: info@agrichem.ca

Emma Elsey
321 Stark's Rd pumphouse

current treatment
unknown

sample 50510
date received 06-Jul-09
time/temperature 13:15 7 °C
date of report 09-Jul-09
sampled by agrichem

very dry May–July

			Potable Water Quality Standards	
			Health Canada (2004)	Island Trust (2001)
Total Coliforms	< 1	MPN/100ml	<1	<1
E. coli	< 1	MPN/100ml	<1	<1
pH	6.70		6.5 to 8.5 *	6.5 to 8.5 *
Conductivity	378	uS/cm	700 **	
Arsenic (As)	< 1	ug/l	10	10
Hardness (as CaCO3)	168	mg/L	80-100	80-100
Sodium (Na)	18	mg/L	200 ***	200 ***
Potassium (K)	< 0.1	mg/L	no limit set	
Magnesium (Mg)	9.5	mg/L	500 *	
Calcium (Ca)	51.8	mg/L	no limit set	
Iron (Fe)	< 0.03	mg/L	0.3 *	0.3 *
Copper (Cu)	< 0.01	mg/L	1 *	
Manganese (Mn)	0.12	mg/L	0.05 *	0.05 *
Zinc (Zn)	0.02	mg/L	5 *	
Turbidity	0.13	NTU	****	1
Fluoride (F)	0.09	mg/L	1.5 **	1.5

< is " less than " > is "greater than "

* aesthetic
** maximum
*** 20 mg/L for restricted diets

**** surface water or surface influenced groundwater (drilled well) source 1 NTU **
secure groundwater (drilled well) source 5 NTU *
the presence of Total Coliform bacteria indicates surface influenced water source

This water sample meets the Health Canada guidelines for potability for all parameters tested. Hardness and Manganese are Aesthetic Objectives only.

metals and minerals are digested as per APHA 3030E2

John Harris BSc

Agrichem Analytical

Drinking Water Report

409 Stewart Rd
Salt Spring Island, BC
V8K 1Y6

Phone/Fax: 250.538.1712
web: www.agrichem.ca
email: info@agrichem.ca

Emma Elsey

321 Stark's Rd South outside tap

current treatment
unknown

sample	53001
date received	25-May-10
time/temperature	11:30 8 °C
date of report	09-Jun-10
sampled by	agrichem

		Potable Water Quality Standards	
		Health Canada (2008)	*Island Trust (2001)*
Total Coliforms	**70** MPN/100ml	0	0
E. coli	**0** MPN/100ml	0	0
pH	**6.53**	6.5 to 8.5 *	6.5 to 8.5 *
Conductivity	**350** uS/cm	700 **	
Hardness (as CaCO3)	**< 2** mg/L	80-100	80-100
Turbidity	**0.05** NTU	****	1
Sodium (Na)	**76** mg/L	200 ***	500 *
Potassium (K)	**< 0.1** mg/L	no limit set	200 ***
Magnesium (Mg)	**<0.1** mg/L	500 *	
Calcium (Ca)	**<1** mg/L	no limit set	
Iron (Fe)	**0.05** mg/L	0.3 *	0.3 *
Copper (Cu)	**< 0.01** mg/L	1 *	
Manganese (Mn)	**< 0.01** mg/L	0.05 *	0.05 *
Zinc (Zn)	**< 0.01** mg/L	5 *	
Arsenic (As)	**< 1** ug/l	10**	10**

< is " less than " > is "greater than "

* aesthetic - no health risk
** maximum
*** 20 mg/L for restricted diets
**** surface water or surface influenced groundwater (drilled well) source 1 NTU **
secure groundwater (drilled well) source 5 NTU *
the presence of Total Coliform bacteria indicates surface influenced water source

For the Total Coliforms and E. coli method, 0 is UNDETECTED and is technically < 1 MPN/100ml

This water sample meets the Health Canada Guidelines for Potability for all parameters tested except for Total Coliforms.

metals and minerals are digested as per APHA 3030E2
Aesthetic Objective - values pose no health risk but may affect the taste, color or smell or cause scaling

John Harris BSc

Maxxam
A Bureau Veritas Group Company

Success Through Science®

Your Project #: ELSEY
Site Location: 321 STARK'S RD
Your C.O.C. #: 08437114

Attention:Mindy Michener

Absolute Water Treatment Ltd.
736 Isabella Pt. Rd.
Salt Spring Island, BC
Canada V8K 1V2

Report Date: 2017/07/25
Report #: R2417555
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B758982
Received: 2017/07/18, 11:14

Sample Matrix: DRINKING WATER
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Fluoride	1	N/A	2017/07/20	BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3)	1	N/A	2017/07/24	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	1	N/A	2017/07/24	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Elements by CRC ICPMS (total)	1	N/A	2017/07/22	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
pH Water (1, 2)	1	N/A	2017/07/19	BBY6SOP-00026	SM-4500H+B
Total Coliform & E.Coli by MF-Chromocult (1)	1	N/A	2017/07/18	VIC SOP 00112	Based on SM-9222

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported: unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Maxxam Victoria
(2) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam
A Bureau Veritas Group Company

Success Through Science®

Your Project #: ELSEY
Site Location: 321 STARK'S RD
Your C.O.C. #: 08437114

Attention:Mindy Michener

Absolute Water Treatment Ltd.
736 Isabella Pt. Rd.
Salt Spring Island, BC
Canada V8K 1V2

Report Date: 2017/07/25
Report #: R2417555
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B758982
Received: 2017/07/18, 11:14

Encryption Key Debbie Nordbruget
Debbie Nordbruget
Project Manager
25 Jul 2017 16:48:20

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Debbie Nordbruget, Project Manager
Email: DNordbruget@maxxam.ca
Phone# (250)385-6112

==========

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.

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B758982
Report Date: 2017/07/25

Absolute Water Treatment Ltd.
Client Project #: ELSEY
Site Location: 321 STARK'S RD

RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER

Maxxam ID				RN5776		
Sampling Date				2017/07/17 16:00		
COC Number				08437114		
	UNITS	MAC	AO	321 STARK'S RD TREATED	RDL	QC Batch
Misc. Inorganics						
Fluoride (F)	mg/L	1.5	-	0.120	0.010	8702355
Physical Properties						
pH	pH	-	7.0:10.5	7.9		8698364

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B758982
Report Date: 2017/07/25

Absolute Water Treatment Ltd.
Client Project #: ELSEY
Site Location: 321 STARK'S RD

MICROBIOLOGY (DRINKING WATER)

Maxxam ID			RN5776	
Sampling Date			2017/07/17 16:00	
COC Number			08437114	
	UNITS	MAC	321 STARK'S RD TREATED	QC Batch
Microbiological Param.				
Total Coliforms	CFU/100mL	0	3.0	8700541
E. coli	CFU/100mL	0	0	8700541

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B758982
Report Date: 2017/07/25

Absolute Water Treatment Ltd.
Client Project #: ELSEY
Site Location: 321 STARK'S RD

TOT. METALS W/ CV HG FOR DRINKING WATER (DRINKING WATER)

Maxxam ID				RN5776		
Sampling Date				2017/07/17 16:00		
COC Number				08437114		
	UNITS	MAC	AO	321 STARK'S RD TREATED	RDL	QC Batch
Calculated Parameters						
Total Hardness (CaCO3)	mg/L	-	-	<0.50	0.50	8698202
Total Metals by ICPMS						
Total Aluminum (Al)	ug/L	-	-	<3.0	3.0	8702428
Total Antimony (Sb)	ug/L	6	-	<0.50	0.50	8702428
Total Arsenic (As)	ug/L	10	-	0.44	0.10	8702428
Total Barium (Ba)	ug/L	1000	-	<1.0	1.0	8702428
Total Beryllium (Be)	ug/L	-	-	<0.10	0.10	8702428
Total Bismuth (Bi)	ug/L	-	-	<1.0	1.0	8702428
Total Boron (B)	ug/L	5000	-	<50	50	8702428
Total Cadmium (Cd)	ug/L	5	-	<0.010	0.010	8702428
Total Chromium (Cr)	ug/L	50	-	<1.0	1.0	8702428
Total Cobalt (Co)	ug/L	-	-	<0.20	0.20	8702428
Total Copper (Cu)	ug/L	-	1000	2.08	0.20	8702428
Total Iron (Fe)	ug/L	-	300	<5.0	5.0	8702428
Total Lead (Pb)	ug/L	10	-	0.31	0.20	8702428
Total Manganese (Mn)	ug/L	-	50	<1.0	1.0	8702428
Total Molybdenum (Mo)	ug/L	-	-	<1.0	1.0	8702428
Total Nickel (Ni)	ug/L	-	-	<1.0	1.0	8702428
Total Selenium (Se)	ug/L	50	-	<0.10	0.10	8702428
Total Silicon (Si)	ug/L	-	-	9100	100	8702428
Total Silver (Ag)	ug/L	-	-	<0.020	0.020	8702428
Total Strontium (Sr)	ug/L	-	-	1.3	1.0	8702428
Total Thallium (Tl)	ug/L	-	-	<0.010	0.010	8702428
Total Tin (Sn)	ug/L	-	-	<5.0	5.0	8702428
Total Titanium (Ti)	ug/L	-	-	<5.0	5.0	8702428
Total Uranium (U)	ug/L	20	-	<0.10	0.10	8702428
Total Vanadium (V)	ug/L	-	-	<5.0	5.0	8702428
Total Zinc (Zn)	ug/L	-	5000	<5.0	5.0	8702428
Total Zirconium (Zr)	ug/L	-	-	<0.10	0.10	8702428
Total Calcium (Ca)	mg/L	-	-	0.148	0.050	8698579
Total Magnesium (Mg)	mg/L	-	-	<0.050	0.050	8698579

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B758982
Report Date: 2017/07/25

Absolute Water Treatment Ltd.
Client Project #: ELSEY
Site Location: 321 STARK'S RD

TOT. METALS W/ CV HG FOR DRINKING WATER (DRINKING WATER)

Maxxam ID				RN5776		
Sampling Date				2017/07/17 16:00		
COC Number				08437114		
	UNITS	MAC	AO	321 STARK'S RD TREATED	RDL	QC Batch
Total Potassium (K)	mg/L	-	-	0.413	0.050	8698579
Total Sodium (Na)	mg/L	-	200	97.4	0.050	8698579
Total Sulphur (S)	mg/L	-	-	5.1	3.0	8698579

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B758982
Report Date: 2017/07/25

Absolute Water Treatment Ltd.
Client Project #: ELSEY
Site Location: 321 STARK'S RD

GENERAL COMMENTS

MAC,AO: The guidelines that have been included in this report have been taken from the Canadian Drinking Water Quality Summary Table, February 2017.

MAC = Maximum Acceptable Concentration
AO = Aesthetic Objectives

It is recommended to consult these guidelines when interpreting your data since there are non-numerical guidelines that are not included on this report.

Turbidity Guidelines:
1. Chemically assisted filtration: less than or equal to 0.3 NTU in 95% of the measurements or 95% of the time each month. Shall not exceed 1.0 NTU at any time.
2. Slow sand / diatomaceous earth filtration: less than or equal to 1.0 NTU in 95% of the measurements or 95% of the time each month. Shall not exceed 3.0 NTU at any time.
3. Membrane filtration: less than or equal to 0.1 NTU in 99% of the measurements made or at least 99% of the time each calendar month. Shall not exceed 0.3 NTU at any time.

Results relate only to the items tested.

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Maxxam Job #: B758982
Report Date: 2017/07/25

Absolute Water Treatment Ltd.
Client Project #: ELSEY
Site Location: 321 STARK'S RD

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
8698364	JHW	Spiked Blank	pH	2017/07/19		100	%	96 - 104
8698364	JHW	RPD	pH	2017/07/19	0.40		%	N/A
8700541	LN5	RPD	Total Coliforms	2017/07/18	NC		%	N/A
			E. coli	2017/07/18	NC		%	N/A
			Total Coliforms	2017/07/18	NC		%	N/A
			E. coli	2017/07/18	NC		%	N/A
			Total Coliforms	2017/07/18	NC		%	N/A
			E. coli	2017/07/18	NC		%	N/A
			Total Coliforms	2017/07/19	NC		%	N/A
			E. coli	2017/07/19	NC		%	N/A
8700541	LN5	RPD [RN5776-04]	Total Coliforms	2017/07/18	NC		%	N/A
			E. coli	2017/07/18	NC		%	N/A
8702355	BBA	Matrix Spike	Fluoride (F)	2017/07/20		NC	%	80 - 120
8702355	BBA	Spiked Blank	Fluoride (F)	2017/07/20		102	%	80 - 120
8702355	BBA	Method Blank	Fluoride (F)	2017/07/20	<0.010		mg/L	
8702355	BBA	RPD	Fluoride (F)	2017/07/20	0		%	20
8702428	AD5	Matrix Spike	Total Aluminum (Al)	2017/07/24		109	%	80 - 120
			Total Antimony (Sb)	2017/07/24		100	%	80 - 120
			Total Arsenic (As)	2017/07/24		NC	%	80 - 120
			Total Barium (Ba)	2017/07/24		NC	%	80 - 120
			Total Beryllium (Be)	2017/07/24		92	%	80 - 120
			Total Bismuth (Bi)	2017/07/24		102	%	80 - 120
			Total Boron (B)	2017/07/24		NC	%	80 - 120
			Total Cadmium (Cd)	2017/07/24		97	%	80 - 120
			Total Chromium (Cr)	2017/07/24		99	%	80 - 120
			Total Cobalt (Co)	2017/07/24		96	%	80 - 120
			Total Copper (Cu)	2017/07/24		96	%	80 - 120
			Total Iron (Fe)	2017/07/24		97	%	80 - 120
			Total Lead (Pb)	2017/07/24		103	%	80 - 120
			Total Manganese (Mn)	2017/07/24		NC	%	80 - 120
			Total Molybdenum (Mo)	2017/07/24		104	%	80 - 120
			Total Nickel (Ni)	2017/07/24		95	%	80 - 120
			Total Selenium (Se)	2017/07/24		95	%	80 - 120
			Total Silver (Ag)	2017/07/24		98	%	80 - 120
			Total Strontium (Sr)	2017/07/24		NC	%	80 - 120
			Total Thallium (Tl)	2017/07/24		101	%	80 - 120
			Total Tin (Sn)	2017/07/24		97	%	80 - 120
			Total Titanium (Ti)	2017/07/24		105	%	80 - 120
			Total Uranium (U)	2017/07/24		117	%	80 - 120
			Total Vanadium (V)	2017/07/24		101	%	80 - 120
			Total Zinc (Zn)	2017/07/24		99	%	80 - 120
8702428	AD5	Spiked Blank	Total Aluminum (Al)	2017/07/22		116	%	80 - 120
			Total Antimony (Sb)	2017/07/22		101	%	80 - 120
			Total Arsenic (As)	2017/07/22		97	%	80 - 120
			Total Barium (Ba)	2017/07/22		102	%	80 - 120
			Total Beryllium (Be)	2017/07/22		100	%	80 - 120
			Total Bismuth (Bi)	2017/07/22		101	%	80 - 120
			Total Boron (B)	2017/07/22		101	%	80 - 120
			Total Cadmium (Cd)	2017/07/22		100	%	80 - 120
			Total Chromium (Cr)	2017/07/22		103	%	80 - 120
			Total Cobalt (Co)	2017/07/22		100	%	80 - 120
			Total Copper (Cu)	2017/07/22		103	%	80 - 120
			Total Iron (Fe)	2017/07/22		99	%	80 - 120

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Maxxam Job #: B758982
Report Date: 2017/07/25

Absolute Water Treatment Ltd.
Client Project #: ELSEY
Site Location: 321 STARK'S RD

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Lead (Pb)	2017/07/22		100	%	80 - 120
			Total Manganese (Mn)	2017/07/22		101	%	80 - 120
			Total Molybdenum (Mo)	2017/07/22		100	%	80 - 120
			Total Nickel (Ni)	2017/07/22		100	%	80 - 120
			Total Selenium (Se)	2017/07/22		98	%	80 - 120
			Total Silver (Ag)	2017/07/22		103	%	80 - 120
			Total Strontium (Sr)	2017/07/22		94	%	80 - 120
			Total Thallium (Tl)	2017/07/22		100	%	80 - 120
			Total Tin (Sn)	2017/07/22		100	%	80 - 120
			Total Titanium (Ti)	2017/07/22		96	%	80 - 120
			Total Uranium (U)	2017/07/22		104	%	80 - 120
			Total Vanadium (V)	2017/07/22		101	%	80 - 120
			Total Zinc (Zn)	2017/07/22		102	%	80 - 120
8702428	AD5	Method Blank	Total Aluminum (Al)	2017/07/22	<3.0		ug/L	
			Total Antimony (Sb)	2017/07/22	<0.50		ug/L	
			Total Arsenic (As)	2017/07/22	<0.10		ug/L	
			Total Barium (Ba)	2017/07/22	<1.0		ug/L	
			Total Beryllium (Be)	2017/07/22	<0.10		ug/L	
			Total Bismuth (Bi)	2017/07/22	<1.0		ug/L	
			Total Boron (B)	2017/07/22	<50		ug/L	
			Total Cadmium (Cd)	2017/07/22	<0.010		ug/L	
			Total Chromium (Cr)	2017/07/22	<1.0		ug/L	
			Total Cobalt (Co)	2017/07/22	<0.20		ug/L	
			Total Copper (Cu)	2017/07/22	<0.20		ug/L	
			Total Iron (Fe)	2017/07/22	<5.0		ug/L	
			Total Lead (Pb)	2017/07/22	<0.20		ug/L	
			Total Manganese (Mn)	2017/07/22	<1.0		ug/L	
			Total Molybdenum (Mo)	2017/07/22	<1.0		ug/L	
			Total Nickel (Ni)	2017/07/22	<1.0		ug/L	
			Total Selenium (Se)	2017/07/22	<0.10		ug/L	
			Total Silicon (Si)	2017/07/22	<100		ug/L	
			Total Silver (Ag)	2017/07/22	<0.020		ug/L	
			Total Strontium (Sr)	2017/07/22	<1.0		ug/L	
			Total Thallium (Tl)	2017/07/22	<0.010		ug/L	
			Total Tin (Sn)	2017/07/22	<5.0		ug/L	
			Total Titanium (Ti)	2017/07/22	<5.0		ug/L	
			Total Uranium (U)	2017/07/22	<0.10		ug/L	
			Total Vanadium (V)	2017/07/22	<5.0		ug/L	
			Total Zinc (Zn)	2017/07/22	<5.0		ug/L	
			Total Zirconium (Zr)	2017/07/22	<0.10		ug/L	
8702428	AD5	RPD	Total Arsenic (As)	2017/07/22	2.6		%	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

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Maxxam Job #: B758982
Report Date: 2017/07/25

Absolute Water Treatment Ltd.
Client Project #: ELSEY
Site Location: 321 STARK'S RD

VALIDATION SIGNATURE PAGE

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

Rob Reinert, B.Sc., Scientific Specialist

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.

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Page 1 of 1

Burnaby: 4606 Canada Way, Burnaby, BC V5G 1K5. Toll Free (800) 665-8566

COC #:

Invoice Information	Report Information (if differs from invoice)	Project Information (where applicable)	Turnaround Time (TAT) Required
Company Name: Absolute Water Treatment Ltd	Company Name: Absolute Water Treatment Ltd	Quotation #:	☑ Regular TAT 5 days (Most analyses)
Contact Name: Mindy Michener	Contact Name: Mindy Michener	P.O. #/ AFE#:	PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS
Address: 736 Isabella Pt. Rd., Salt Spring Island	Address: 736 Isabella Pt. Rd., Salt Spring Island	Project #: Elsey	Rush TAT (Surcharges will be applied)
BC PC: V8K 1V2	BC PC: V8K 1V2	Site Location: 321 Stark's rd	☐ Same Day ☐ 2 Days ☐ 1 Day ☐ 3 Days
Phone: (250) 537-0925	Phone: (250) 537-0925	Site #:	Date Required:
Email: westcoastwaterwhisperer@gmail.com	Email: westcoastwaterwhisperer@gmail.com	Sampled By: Mindy	Rush Confirmation #:

Regulatory Criteria	Special Instructions
☐ BC CSR Soil ☐ BC CSR Water	☑ Return Cooler
☐ CCME (Specify) ☐ Other (Specify)	☐ Ship Sample Bottles (Please Specify)
☑ Drinking Water ☑ BC Water Quality	

SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

Analysis Requested: Total Metals(Incl Hardness and Hg); pH; Turbidity; Total Dissolved Solids; Fluoride; UV Transmittance (unfiltered); Conductivity; Total Coliform and Ecoli; Drinking Water Scan; ANVI PSS

LABORATORY USE ONLY: CUSTODY SEAL Y / N (Present / Intact); COOLER TEMPERATURES

	Sample Identification	Lab Identification	Date Sampled (YYYY/MM/DD)	Time Sampled (HH:MM)	Matrix	# OF CONTAINERS SUBMITTED	HOLD - DO NOT ANALYZE	COOLER TEMPERATURES	COMMENTS
1	Treated		2017/07/17	4:00 pm		4		4, 5, 6	Private Well
2									
3									
4									
5									
6									
7									
8									
9									
10									

COOLING MEDIA PRESENT: Y / N

RELINQUISHED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)
Mindy Michener	2017/07/18	9:00 am	S. Hussain-Gray	2017/07/18	11:14

18-Jul-17 11:14
Debbie Nordbruget
B758982
SGR

Agrichem Analytical

Drinking Water Report

409 Stewart Rd
Salt Spring Island, BC
V8K 1Y6

Phone/Fax: 250.538.1712
web: www.agrichem.ca
email: info@agrichem.ca

Emma-Louise Elsey

321 Starks

current treatment
softener, carbon

sample 71335
date received 12-Jun-12
time/temperature 12:00 11 °C
date of report 21-Jun-12
sampled by agrichem

		Potable Water Quality Standards	
		Health Canada (2008)	Island Trust (2001)
Total Coliforms	**1** MPN/100ml	0	0
E. coli	**0** MPN/100ml	0	0
pH	**7.12**	6.5 to 8.5 *	6.5 to 8.5 *
Conductivity	**432** uS/cm	no limit set	
Total Dissolved Solids (TDS)	**285** mg/L	500*	500*
Hardness (as CaCO3)	**< 2** mg/L	80-100	80-100
Alkalinity (as CaCO3)	**154** mg/L	no limit set	
Residual Chlorine	**< 0.02** mg/L		0
Turbidity	**< 0.05** NTU	****	1
Fluoride (F)	**0.27** mg/L	1.5 **	1.5
Chloride	**11.06** mg/L	250 *	250 *
Nitrate (N)	**0.13** mg/L	10 **	10 **
Nitrite (N)	**< 0.01** mg/L	3.2 **	
Phosphate (P)	**< 0.02** mg/L	no limit set	
Sulphate (S)	**6.93** mg/L	500 *	no limit set
Sodium (Na)	**79** mg/L	200 ***	500 *
Potassium (K)	**0.1** mg/L	no limit set	200 ***
Magnesium (Mg)	**<0.1** mg/L	500 *	
Calcium (Ca)	**<1** mg/L	no limit set	
Iron (Fe)	**< 0.03** mg/L	0.3 *	0.3 *
Copper (Cu)	**< 0.01** mg/L	1 *	
Manganese (Mn)	**< 0.01** mg/L	0.05 *	0.05 *
Zinc (Zn)	**< 0.01** mg/L	5 *	
Arsenic (As)	**< 1** ug/l	10**	10**
Lead (Pb)	**< 2** ug/L	10**	

< is " less than " > is "greater than "

* aesthetic - no health risk
** maximum
*** 20 mg/L for restricted diets

**** surface water or surface influenced groundwater (drilled well) source 1 NTU **
secure groundwater (drilled well) source 5 NTU *
the presence of Total Coliform bacteria indicates surface influenced water source

For the Total Coliforms and E. coli method, 0 is UNDETECTED and is technically < 1 MPN/100ml

This water sample meets the Health Canada Guidelines for Potability for all parameters tested except for Total Coliforms.

metals and minerals are digested as per APHA 3030E2
Aesthetic Objective - values pose no health risk but may affect the taste, color or smell or cause scaling

John Harris BSc