



DRINKING WATER SYSTEM ANNUAL REPORT

Reporting Period: January 1<sup>st</sup> to December 31<sup>st</sup>, (year)

Water System

Water System Owner

Primary Contact Name (Operator or Manager)

Phone Number (Operator or Manager)

E-mail (Operator or Manager)

DESCRIBE YOUR WATER SUPPLY SYSTEM

What is the Source(s) of Raw Water?

- Deep Well, Shallow Well, Surface Water, Other

If other, specify details:

Does the Drinking Water System have Primary Disinfection? Yes No

- Chlorination, Ultraviolet Light, Ozone, Other

If other, specify details:

Does the Drinking Water System have Secondary Disinfection? Yes No

- Chlorination, Other

If other, specify details:

Does the Drinking Water System have Filtration? Yes No

Check all boxes that apply

- Cartridge Filter(s), Carbon Filter, Sand Filtration, Reverse Osmosis, Other

If other, specify details:

PUBLIC REPORTING

Emergency Response & Contingency Plan (ERCP)

Is your ERCP up to Date? Yes No

How do you Inform the System Users of the ERCP?

- Hand Delivered, Bulletin Board, Newspaper, Utility Bill Insert, Website, Other (specify details) Radio, Social Media

Drinking Water System Annual Report

How do you Inform the System Users of the Annual Report?

- Hand Delivered, Bulletin Board, Newspaper, Utility Bill Insert, Website, Other (specify details)



**COMPLIANCE WITH OPERATING PERMIT**

*List the conditions of your Operating Permit (Contact the DWO for a copy if needed):*

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**Are you in compliance with your Operating Permit?**  Yes  No

**BACTERIOLOGICAL TESTING AND DRINKING WATER PROTECTION REGULATION WATER QUALITY STANDARDS**

**How many bacteriological samples were collected during this reporting period?** \_\_\_\_\_

**What is the minimum required sampling frequency for this system? (#samples/month)** \_\_\_\_\_

Additional sampling details:

**Was the minimum required sampling frequency achieved?**  Yes  No

Comments:

**Bacteriological summary attached to this report?**  Yes  No

**If no, how do the users of the system view the results?**

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**WATER QUALITY STANDARDS FOR POTABLE WATER**

<b>Parameter:</b>	<b>Standard:</b>	<b>Did this system meet standard?</b>	
Escherichia coli (for all samples)	No detectable <i>Escherichia coli</i> per 100ml	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Total Coliform Bacteria (if only 1 sample collected in a 30 day period)	No detectable total coliform bacteria per 100ml	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Total Coliform Bacteria (if more than 1 sample collected in a 30 day period)	No more than 10% of samples contain total coliform bacteria, <b>and</b> No sample has more than 10 total coliform bacteria per 100ml	<input type="checkbox"/> Yes	<input type="checkbox"/> No

**If the system did not meet any of above Drinking Water Protection Regulation standards, record the results in the table below; attach additional sheets if necessary.**

<b>Date</b>	<b>TC/100ml</b>	<b>E.coli/100ml</b>	<b>Reason</b>	<b>Corrective Action</b>

**CHEMICAL SAMPLING COMPLETED DURING THIS REPORTING PERIOD**

**Was any chemical sampling conducted during reporting period?**  Yes  No

**If no, when were the last chemical samples conducted for this system? (date)**  Don't know

**If yes, attach a list of the chemical results**

**If any water samples did not meet the Guidelines for Canadian Drinking Water Quality, record the results in the table below; attach additional sheets if necessary.**

**Next scheduled full chemical test (date)**

Parameter	Result	Corrective Action / Treatment / Comments

**ADDITIONAL TESTING**

**Does the system have analyzers for continuous monitoring?**  Yes  No

**If yes, check all boxes that apply:**

Chlorine  Turbidity  Other (details)

**Are the results available on request?** Yes  UV Intensity Alarm

**If any additional testing or sampling was conducted, record results in the table below; attach additional sheets if necessary.**

Additional Testing & Reason for Sampling	Corrective Action Taken

**WATER QUALITY COMPLAINTS**

**Were there any water quality complaints in this reporting period? (e.g. taste, odour, colour etc.)**  Yes  No

**If yes, complete the table below; attach additional sheets if necessary.**

Date	Water Quality Complaint	Corrective Action / Treatment

**OPERATIONAL PROBLEMS**

*Were there any operational problems during this reporting period? (e.g. insufficient water supply, malfunction of disinfection equipment, line breaks, elevated turbidity etc.).*  Yes  No

*If yes, complete the table below; attach additional sheets if necessary.*

Incident Date	Type of Operational Problem	Corrective Action Taken

**MAJOR UPGRADES/REPAIRS & EXPENSES**

*Were there any major upgrades/repairs or any major costs incurred during this reporting period?*  Yes  No

*If yes, complete the table below; attach additional sheets if necessary.*

Major Upgrades/Expenses	Details
Improvements required by DWO	
Additions/changes to system	
Purchase or install new equipment	
Equipment repair or replacement	
Annual maintenance of system	
Specialist report	
Other	

**FUTURE IMPROVEMENTS**

*Are there any plans for future improvements?*  Yes  No

*If yes, complete the table below; attach additional sheets if necessary.*

Future Upgrades or Improvements	Estimated Date of Completion

<p><b>Click here to enter a date.</b></p> <p><b>DATE COMPLETED:</b></p>	<p><b>COMPLETED BY:</b></p>
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## APPENDIX A

Water System Operating Conditions  
for the Cowichan Valley Regional District - Saltair Water System  
175 Ingram Street,  
Duncan, B.C., V9L 1N8

### 1. Existing Performance Standards

The CVRD – Saltair Water System shall ensure the disinfection systems are in good working order and provide the following:

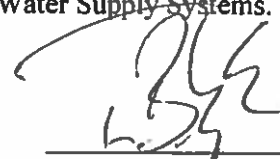
- A 4-log removal/inactivation of viruses, and a 3-log removal/inactivation of Giardia cysts and Cryptosporidium oocysts, and produce finished water with less than 1 NTU turbidity.
- Raw water must be recorded on a continuous basis and the average daily turbidity levels are not to exceed 1 NTU.
- The Drinking Water Officer must be contacted immediately if the average daily turbidity level exceeds 1 NTU at the water treatment plant.

### 2. Future Treatment Specifications

On or before January 31, 2018, the Water System Owner shall ensure that the average daily turbidity levels do not exceed 1 NTU as measured at the water treatment plant. The Water System Owner is required to meet the following implementation plan dates:

- A. On or before January 31, 2016, complete any and all water quality and water source assessments, tests and evaluations necessary to characterize water quality for the purposes of identifying acceptable treatment and disinfection options.
- B. On or before September 31, 2016, finalize your selection of a treatment technology that will meet the objectives established in HPES Policy 3.3 Surface Water Treatment Objectives.
- C. On or before May 31, 2017 submit to the HPES Public Health Engineer, in a form acceptable and with sufficient information, a component diagram of the proposed water system revisions necessary for the water supply system to provide potable water in compliance with the HPES Policy 3.3 Surface Water Treatment Objectives.
- D. On or before January 31, 2018 complete construction and commissioning of all works in accordance with the construction permit or permit waiver in order to meet the objectives established in HPES Policy 3.3 Surface Water Treatment Objectives.
- E. Apply for and obtain all necessary approvals and permits from the Public Health Engineer as required by the *Drinking Water Protection Act* and *Drinking Water Protection Regulation*, including but not limited to obtaining a Construction Permit, or a waiver of the same from the Public Health Engineer, prior to undertaking revisions to the Water Supply Systems.

August 28, 2015



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Environmental Health Officer

# SALTAIR WATER SYSTEM

## Facility Information

Location 175 Ingram Street Duncan  
 Type 301 - 10,000 Connections

## Facility Sampling History

Location	Date	Total Coliform	E. Coli/Enterococci
Saltair 2 S2 3254 Dogwood Road	19-Dec-2023	LT1	LT1
Saltair 7 10980 Westdowne Road	19-Dec-2023	LT1	LT1
Saltair 8 10879 Chemainus Road	19-Dec-2023	LT1	LT1
Saltair 12 11185 Baker Road	11-Dec-2023	LT1	LT1
SALTAIR 4 10651 Olsen Road	11-Dec-2023	LT1	LT1
Saltair 6 10311 Old Victoria Road Victoria Road	11-Dec-2023	LT1	LT1
Saltair AUDIT SALTAIR WATER SYSTEM	06-Dec-2023	LT1	LT1
Saltair 2 S2 3254 Dogwood Road	05-Dec-2023	LT1	LT1
Saltair 5 at 3771 Gardner Road	05-Dec-2023	LT1	LT1
Saltair 7 10980 Westdowne Road	27-Nov-2023	LT1	LT1
Saltair 8 10879 Chemainus Road	27-Nov-2023	LT1	LT1
Saltair 2 S2 3254 Dogwood Road	22-Nov-2023	LT1	LT1
SALTAIR 4 10651 Olsen Road	22-Nov-2023	LT1	LT1
Saltair 6 10311 Old Victoria Road	15-Nov-2023	LT1	LT1
Saltair 12 11185 Baker Road	06-Nov-2023	LT1	LT1
Saltair 2 S2 3254 Dogwood Road	06-Nov-2023	LT1	LT1
Saltair 5 at 3771 Gardner Road	31- Oct-2023	LT1	LT1
Saltair 8 10879 Chemainus Road	31- Oct-2023	LT1	LT1
Saltair 2 S2 3254 Dogwood Road	24- Oct-2023	LT1	LT1
Saltair 7 10980 Westdowne Road	24- Oct-2023	LT1	LT1
SALTAIR 4 10651 Olsen Road	17- Oct-2023	LT1	LT1
Saltair 6 10311 Old Victoria Road	17- Oct-2023	LT1	LT1
Saltair 12 11185 Baker Road	10- Oct-2023	LT1	LT1
Saltair 2 S2 3254 Dogwood Road	10- Oct-2023	LT1	LT1
Saltair 5 at 3771 Gardner Road	03- Oct-2023	LT1	LT1
Saltair 8 10879 Chemainus Road	03- Oct-2023	LT1	LT1
Saltair 2 S2 3254 Dogwood Road	27-Sep-2023	LT1	LT1
Saltair 7 10980 Westdowne Road	27-Sep-2023	LT1	LT1
SALTAIR 4 10651 Olsen Road	19-Sep-2023	LT1	LT1
Saltair 6 10311 Old Victoria Road	19-Sep-2023	LT1	LT1
Saltair 12 11185 Baker Road	13-Sep-2023	LT1	LT1
Saltair 2 S2 3254 Dogwood Road	13-Sep-2023	LT1	LT1
Saltair 5 at 3771 Gardner Road	05-Sep-2023	LT1	LT1
Saltair 8 10879 Chemainus Road	05-Sep-2023	LT1	LT1
Saltair 2 S2 3254 Dogwood Road	29-Aug-2023	LT1	LT1
Saltair 6 10311 Old Victoria Road	21-Aug-2023	LT1	LT1
Saltair 7 10980 Westdowne Road	21-Aug-2023	LT1	LT1
Saltair 2 S2 3254 Dogwood Road	15-Aug-2023	LT1	LT1
SALTAIR 4 10651 Olsen Road	15-Aug-2023	LT1	LT1
Saltair 12 11185 Baker Road	09-Aug-2023	LT1	LT1
Saltair 5 at 3771 Gardner Road	09-Aug-2023	LT1	LT1
Saltair 2 S2 3254 Dogwood Road	31-Jul-2023	LT1	LT1
Saltair 8 10879 Chemainus Road	31-Jul-2023	LT1	LT1

# SALTAIR WATER SYSTEM

## Facility Information

Location 175 Ingram Street Duncan  
 Type 301 - 10,000 Connections

## Facility Sampling History

Location	Date	Total Coliform	E. Coli/Enterococci
Saltair 7 10980 Westdowne Road	25-Jul-2023	LT1	LT1
Saltair 2 S2 3254 Dogwood Road	17-Jul-2023	LT1	LT1
SALTAIR 4 10651 Olsen Road	17-Jul-2023	LT1	LT1
Saltair 6 10311 Old Victoria Road	17-Jul-2023	LT1	LT1
Saltair 12 11185 Baker Road	10-Jul-2023	LT1	LT1
Saltair 5 at 3771 Gardner Road	10-Jul-2023	LT1	LT1
Saltair 2 S2 3254 Dogwood Road	05-Jul-2023	LT1	LT1
Saltair 8 10879 Chemainus Road	05-Jul-2023	LT1	LT1
Saltair 5 at 3771 Gardner Road	26-Jun-2023	LT1	LT1
Saltair 2 S2 3254 Dogwood Road	19-Jun-2023	QRWRT	QRWRT
Saltair 6 10311 Old Victoria Road	19-Jun-2023	QRWRT	QRWRT
Saltair 7 10980 Westdowne Road	19-Jun-2023	QRWRT	QRWRT
Saltair 12 11185 Baker Road	13-Jun-2023	LT1	LT1
SALTAIR 4 10651 Olsen Road	13-Jun-2023	LT1	LT1
Saltair 2 S2 3254 Dogwood Road	06-Jun-2023	QRWRT	QRWRT
Saltair 8 10879 Chemainus Road	06-Jun-2023	QRWRT	QRWRT
Saltair 5 at 3771 Gardner Road	30-May-2023	LT1	LT1
Saltair 2 S2 3254 Dogwood Road	24-May-2023	LT1	LT1
Saltair 6 10311 Old Victoria Road	24-May-2023	LT1	LT1
SALTAIR 4 10651 Olsen Road	15-May-2023	LT1	LT1
Saltair 7 10980 Westdowne Road	15-May-2023	LT1	LT1
Saltair 12 11185 Baker Road	08-May-2023	LT1	LT1
Saltair 2 S2 3254 Dogwood Road	08-May-2023	LT1	LT1
Saltair 5 at 3771 Gardner Road	02-May-2023	LT1	LT1
Saltair 8 10879 Chemainus Road	02-May-2023	LT1	LT1
Saltair 2 S2 3254 Dogwood Road	24-Apr-2023	LT1	LT1
Saltair 7 10980 Westdowne Road	24-Apr-2023	LT1	LT1
Saltair 6 10311 Old Victoria Road	18-Apr-2023	LT1	LT1
Saltair 2 S2 3254 Dogwood Road	11-Apr-2023	LT1	LT1
Saltair 5 at 3771 Gardner Road	11-Apr-2023	LT1	LT1
Saltair 8 10879 Chemainus Road	11-Apr-2023	LT1	LT1
Saltair 12 11185 Baker Road	04-Apr-2023	LT1	LT1
SALTAIR 4 10651 Olsen Road	04-Apr-2023	LT1	LT1
Saltair 5 at 3771 Gardner Road	28-Mar-2023	QRWRT	QRWRT
Saltair 7 10980 Westdowne Road	28-Mar-2023	QRWRT	QRWRT
Saltair 2 S2 3254 Dogwood Road	20-Mar-2023	LT1	LT1
Saltair 6 10311 Old Victoria Road	20-Mar-2023	LT1	LT1
Saltair 5 at 3771 Gardner Road	13-Mar-2023	LT1	LT1
Saltair 8 10879 Chemainus Road	13-Mar-2023	LT1	LT1
Saltair 12 11185 Baker Road	06-Mar-2023	LT1	LT1
SALTAIR 4 10651 Olsen Road	06-Mar-2023	LT1	LT1
Saltair 2 S2 3254 Dogwood Road	01-Mar-2023	LT1	LT1
Saltair 7 10980 Westdowne Road	01-Mar-2023	LT1	LT1

# SALTAIR WATER SYSTEM

## Facility Information

Location 175 Ingram Street Duncan  
Type 301 - 10,000 Connections

## Facility Sampling History

Location	Date	Total Coliform	E. Coli/Enterococci
Saltair 2 S2 3254 Dogwood Road	14-Feb-2023	LT1	LT1
Saltair 8 10879 Chemainus Road	14-Feb-2023	LT1	LT1
SALTAIR 4 10651 Olsen Road	06-Feb-2023	LT1	LT1
Saltair 7 10980 Westdowne Road	06-Feb-2023	LT1 GTR200	LT1 GTR200
Saltair 12 11185 Baker Road	30-Jan-2023	LT1	LT1
Saltair 2 S2 3254 Dogwood Road	30-Jan-2023	LT1	LT1
Saltair 5 at 3771 Gardner Road	23-Jan-2023	LT1	LT1
Saltair 8 10879 Chemainus Road	23-Jan-2023	LT1	LT1
Saltair 2 S2 3254 Dogwood Road	16-Jan-2023	LT1	LT1
Saltair 6 10311 Old Victoria Road	16-Jan-2023	LT1	LT1
Saltair 12 11185 Baker Road	04-Jan-2023	LT1	LT1
Saltair 2 S2 3254 Dogwood Road	04-Jan-2023	LT1	LT1
Saltair 5 at 3771 Gardner Road	04-Jan-2023	LT1	LT1



# SALTAIR WATER SYSTEM

## DISTRIBUTION - S8

			<i>Sample ID</i>	S8-10879 CHEMAINUS ROAD (WTX 27AE8)
			<i>Sampling Date</i>	05/24/23
			<i>Sampling Time</i>	09:35 AM
<i>Parameter Name</i>	<i>MAC</i>	<i>AO</i>	<i>Units</i>	<i>Result</i>
Nitrite (N)	1		mg/L	<0.0050
Nitrate (N)	10		mg/L	<0.020
Conductivity			uS/cm	39
pH			pH	6.66
Total Dissolved Solids		500	mg/L	22
Alkalinity (PP as CaCO3)			mg/L	<1.0
Alkalinity (Total as CaCO3)			mg/L	8.7
Bicarbonate (HCO3)			mg/L	11
Carbonate (CO3)			mg/L	<1.0
Hydroxide (OH)			mg/L	<1.0
Chloride (Cl)		250	mg/L	3.8
Sulphate (SO4)		500	mg/L	1.2
True Colour		15	Col. Unit	<5.0
Nitrate plus Nitrite (N)			mg/L	<0.020
Langelier Index (@ 20C)			N/A	-3.2
Langelier Index (@ 4C)			N/A	-3.46
Saturation pH (@ 20C)			N/A	9.86
Saturation pH (@ 4C)			N/A	10.1
Dissolved Fluoride (F)	1.5		mg/L	<0.050
Tannins and Lignins			mg/L	<0.2
Turbidity	see remark	see remark	NTU	0.65
Total Hardness (CaCO3)			mg/L	9.02
Total Aluminum (Al)	2900		ug/L	33.8
Total Antimony (Sb)	6		ug/L	<0.50
Total Arsenic (As)	10		ug/L	0.11
Total Barium (Ba)	2000		ug/L	2.7
Total Beryllium (Be)			ug/L	<0.10
Total Bismuth (Bi)			ug/L	<1.0
Total Boron (B)	5000		ug/L	<50
Total Cadmium (Cd)	7		ug/L	<0.010
Total Chromium (Cr)	50		ug/L	<1.0
Total Cobalt (Co)			ug/L	<0.20
Total Copper (Cu)	2000	1000	ug/L	6.84
Total Iron (Fe)		300	ug/L	32.6
Total Lead (Pb)	5		ug/L	0.36
Total Manganese (Mn)	120	20	ug/L	5.3

# SALTAIR WATER SYSTEM

## DISTRIBUTION - S8

			<b>Sample ID</b>	S8-10879 CHEMAINUS ROAD (WTX 27AE8)
			<b>Sampling Date</b>	05/24/23
			<b>Sampling Time</b>	09:35 AM
<b>Parameter Name</b>	<b>MAC</b>	<b>AO</b>	<b>Units</b>	<b>Result</b>
Total Molybdenum (Mo)			ug/L	<1.0
Total Nickel (Ni)			ug/L	<1.0
Total Selenium (Se)	50		ug/L	<0.10
Total Silicon (Si)			ug/L	1490
Total Silver (Ag)			ug/L	<0.020
Total Strontium (Sr)	7000		ug/L	9
Total Thallium (Tl)			ug/L	<0.010
Total Tin (Sn)			ug/L	<5.0
Total Titanium (Ti)			ug/L	<5.0
Total Uranium (U)	20		ug/L	<0.10
Total Vanadium (V)			ug/L	<5.0
Total Zinc (Zn)		5000	ug/L	<5.0
Total Zirconium (Zr)			ug/L	<0.10
Total Calcium (Ca)			mg/L	3.01
Total Magnesium (Mg)			mg/L	0.368
Total Potassium (K)			mg/L	0.233
Total Sodium (Na)		200	mg/L	3.56
Total Sulphur (S)			mg/L	<3.0
Total Mercury (Hg)	1		ug/L	0.0023
Total Total Kjeldahl Nitrogen (Calc)			mg/L	0.1
Total Organic Carbon (C)			mg/L	2.7
Total Nitrogen (N)			mg/L	0.1
Total Ammonia (N)			mg/L	<0.015
Sulphide (as H <sub>2</sub> S)		0.05	mg/L	<0.0020
Total Sulphide		0.05	mg/L	<0.0018
Total Coliforms	0		CFU/100mL	0
E. coli	0		CFU/100mL	0
Heterotrophic Plate Count			CFU/mL	<1.0
Fecal Coliforms			CFU/100mL	0
Non-Coliform (Background)			CFU/100mL	<1
Iron Bacteria			CFU/mL	<25
Sulphate reducing bacteria			CFU/mL	<75
Total Trihalomethanes	100		ug/L	86
Bromodichloromethane			ug/L	2.2
Bromoform			ug/L	<1.0
Dibromochloromethane			ug/L	<1.0

# SALTAIR WATER SYSTEM

## DISTRIBUTION - S8

			<i>Sample ID</i>	S8-10879 CHEMAINUS ROAD (WTX 27AE8)
			<i>Sampling Date</i>	05/24/23
			<i>Sampling Time</i>	09:35 AM
<i>Parameter Name</i>	<i>MAC</i>	<i>AO</i>	<i>Units</i>	<i>Result</i>
Chloroform			ug/L	84
Dalapon			ug/L	<5.0
Monochloroacetic Acid			ug/L	<5.0
Monobromoacetic Acid			ug/L	<5.0
Dichloroacetic Acid			ug/L	27
Trichloroacetic Acid			ug/L	46
Bromochloroacetic Acid			ug/L	<5.0
Dibromoacetic Acid			ug/L	<5.0
Total Haloacetic Acids	80		ug/L	73

# SALTAIR WATER SYSTEM

## THM/HAA5

<i>Parameter Name</i>	<i>MAC</i>	<i>AO</i>	<i>Units</i>	<i>Sample ID</i>	<i>Result</i>	<i>Result</i>	<i>Result</i>	<i>Result</i>
				S8-10879 CHEMAINUS ROAD (WTX 27AE8)	S8-10879 CHEMAINUS ROAD (WTX 27AE8)	S8-10879 Chemainus Road (WTX 27AE8)	S8-10879 Chemainus Road (WTX 27AE8)	
				<i>Sampling Date</i>	<i>Sampling Time</i>	<i>Sampling Date</i>	<i>Sampling Time</i>	<i>Sampling Date</i>
Total Trihalomethanes	100		ug/L	02/16/23 01:02 PM	59	86	77	86
Bromodichloromethane			ug/L	05/24/23 09:35 AM	<1.0	2.2	2.7	2.7
Bromoform			ug/L	08/22/23 12:45 PM	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane			ug/L	11/22/23 02:10 PM	<1.0	<1.0	<1.0	<1.0
Chloroform			ug/L		59	84	74	84
Dalapon			ug/L		<5.0	<5.0	<5.0	<5.0
Monochloroacetic Acid			ug/L		<5.0	<5.0	<5.0	<5.0
Monobromoacetic Acid			ug/L		<5.0	<5.0	<5.0	<5.0
Dichloroacetic Acid			ug/L		26	27	27	24
Trichloroacetic Acid			ug/L		48	46	49	42
Bromochloroacetic Acid			ug/L		<5.0	<5.0	<5.0	<5.0
Dibromoacetic Acid			ug/L		<5.0	<5.0	<5.0	<5.0
Total Haloacetic Acids	80		ug/L		74	73	76	66

Cowichan Valley Reg. Dist. - E  
\*A PO 23-223 (2023)  
\*A 175 Ingram Street  
Duncan, BC  
V9L 1N8

29Sep23 1:31p  
FWS  
filter(s)  
2

W176882

TEL: (250) 746-2530  
group

Arrival temp.: 11.8C

PARASITE ANALYSIS

<u>Sample</u>	<u>Cysts/100L</u>	<u>Organisms Identified</u>	<u>Comments</u>
1 SW:Stock Lake Inlet 28Sep23 09:45	ND ND	Giardia (cysts) Cryptosporidium (oocysts)	-protozoan; enteric parasite -protozoan; enteric parasite
2 HBW:Well14 Lilys Park 28Sep23 11:53	ND ND	Giardia (cysts) Cryptosporidium (oocysts)	-protozoan; enteric parasite -protozoan; enteric parasite

Detection Limit = 1 per 100L \*

Lab Test Recovery = 94.6%

\* test is strongly influenced by volume collected, amount & type of sediment present

ND = none detected

ref: Direct Antibody -Hydrofluor Meridian

Monitoring for Giardia & Cryptosporidium, JL Clancy, WD Gollnitz & Z Tabib, 1994

Prop. ICR Protozoan Methods for Detection of Giardia Cysts and Cryptosporidium Oocysts  
in Water by Fluorescent Antibody Procedures 1993

US EPA Consensus Method for Determining Groundwaters Under the Direct

Influence of Surface Water Using Microscopic Particulate Analysis (MPA),

Vasconcelos, J., S. Harris., 1992

Manual of Clinical Microbiology, EH Lennette etal. Am. Soc for Microbiology

Clinical Diagnosis by Laboratory Methods, Davidson & Henry

Veterinary Clinical Parasitology, MW Sloss, RL Kemp. Iowa State Univ. Press 5th ed.

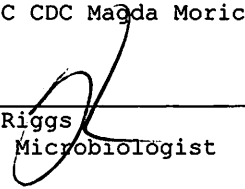
Parasitology for Veterinarians, JR Georgi & ME Georgi. WB Saunders & Co, 1990

Personal Communications re methodologies & taxonomy: US EPA -S. Harris,

US EPA (Cinc) F. Schaefer

US EPA (retired) J.Vasconcelos

BC CDC Maqda Moricz (1995)

  
\_\_\_\_\_  
W. Riggs  
Sr. Microbiologist

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