



Water Quality Monitoring Report
For the District of Hope Water System
January 1 – December 31, 2021



Prepared by
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Chief Utilities Operator

Foreword

Under the British Columbia Drinking Water Protection Act and the British Columbia Drinking Water Protection Regulation (BCDWPA & BCDWPR) the District of Hope is required to conduct water quality monitoring in the district's distribution system(s) and to publish the results in an annual report. This document fulfills that requirement by presenting a summary and discussion of all water quality sampling results for the year 2021. An overview of projects and events as they relate to drinking water in the District of Hope is also provided in this report.

Please visit the following web sites for further information:

Health Canada

<http://www.hc-sc.gc.ca/ewh-semt/water-eau/drink-potab/guide/index-eng.php>

Ministry of Health

http://www.health.gov.bc.ca/protect/dw_index.html

Health Link BC File #56 - Persons with compromised or Weakened Immune Systems

<https://www.rdn.bc.ca/cms/wpattachments/wpID2360atID5822.pdf>

District of Hope

<http://www.hope.ca>

USEPA

<http://www.epa.gov/safewater/mcl.html>

World Health Organization

<https://www.who.int/news-room/fact-sheets/detail/drinking-water>

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Acronyms

AO: Aesthetic Objective

ASTTBC: Applied Science Technicians and Technologists of British Columbia

BCDWPA: *British Columbia Drinking Water Protection Act*

BCDWPR: *British Columbia Drinking Water Protection*

E.coli: *Escherichia coli*

EOCP: Environmental Operators Certification Program

GCDWQ: *Guidelines for Canadian Drinking Water*

Quality *HAA*: Haloacetic Acid

MAC: Maximum Acceptable Concentration

Mg/l: Milligrams per Liter

NTU: Nephelometric Turbidity Units *PPB*: Parts Per Billion

PPM: Parts Per Million

PRV: Pressure Regulating Valve

PVC: Polyvinyl Chloride

SCADA: Supervisory Control and Data Acquisition

UDF: Uni-directional Flushing

YTD: Year-to-Date

Executive Summary

The District of Hope supplies drinking water to residential and commercial customers within District limits. The District of Hope is dedicated to providing high quality, aesthetically pleasing drinking water at a reasonable cost.

The District collects water samples from multiple locations within the distribution system on a weekly basis. This report includes a summary of the results of all sampling conducted on the district's water distribution systems during 2021 as well as a discussion of projects and events affecting water quality within the District of Hope. A complete record of 2021 water quality sampling results can be found in the appendices of this report.

As part of our commitment to continual improvement, reliable service and high-water quality, the district completes operational and capital projects as well as water quality sampling on an ongoing basis.

In 2021 the district completed:

- Routine inspection and maintenance of all water distribution facilities
- Dead end and uni-directional water main flushing
- Water Master Plan is being implemented

1.0 Water Distribution System Data

1.1 System Infrastructure

This section provides a snapshot of the District of Hope's water distribution system. All of the components listed are operated and maintained by the Hope's operations department.

Critical Asset components of the water distribution system

Asset:

• Fire hydrants	217
• Pressure reducing valves	1
• Wells	9
• Reservoirs	4
• Generators	5
• Underground distribution pipe	55,000m

In addition to the critical components of the water distribution system, there are many other smaller components to the district's water distribution system, including:

- Water meters
- Air valves
- End of line blow off valves
- Line valves
- 23 Water sampling stations

All of these components work in concert to help the district deliver safe, reliable drinking water to customers.

1.2 Public Response

In 2021 the Hope District's Operations Department responded to various concerns including; residential water service leaks, 6 water distribution main breaks, pressure checks, Silver Cr water reservoir SCADA communication issue (reservoir fill issues), a water quality event in east Kawkawa Lake, intake pump failure at Lake of the Woods water system, service locates, new service installations etc.

1.3 Staff Certification

The District of Hope’s water distribution systems are classified by the Environmental Operators Certification Program (EOCP). The District’s water systems are monitored, operated, and maintained by qualified personnel who are certified by the EOCP.

Table #4 Staff Certification

Certification Level	# of Staff
EOCP Water Distribution Level I	1
EOCP Water Distribution Level II	1
EOCP Water Distribution Level III	2
Total Qualified Staff	4

2.0 2021 Event Summary

2.1 Planning for the Future

The District of Hope is a growing community within the Fraser Valley, with an estimated population of 6181 residents (2016 Census). Hope’s water utility consists of 4 separate water systems, 3 of which are supplied by well source(s) and 1 surface water source (Lake of the Woods). The water supply and distribution system are a key focus of Hope’s strategic infrastructure priorities.

Projects included

1. Installation of emergency chlorination points at 4 well sites
2. Fire hydrant servicing
3. Water main flushing
4. SCADA upgrades 2021/2022
5. Adding remote readers to more water meters
6. Replacement of a 150mm flow meter at Well 3
7. Replacement of the intake pump for Lake of the Woods water system (LOTW)
8. Adding new stairs to LOTW water system bottom pumphouse
9. One new 150mm water connection
10. Addition of a fully automated bulk water fill station at the Hope #1 firehall

3.0 “Flush” Message from the Fraser Health Authority

Fraser Health has recently revised its metals at the tap “Flush” message. They have asked that all water purveyors include the following message in their annual report:

Anytime the water in a particular faucet has not been used for six hours or longer, “flush” your cold-water pipes by running the water until you notice a change in temperature. (This could take as little as five to thirty seconds if there has been recent heavy water use such as showering or toilet flushing. Otherwise, it could take two minutes or longer.)

The more time water has been sitting in your home’s pipes, the more lead it may contain.

Use only water from the cold-tap for drinking, cooking, and especially making baby formula. Hot water is likely to contain higher levels of lead.

The two actions recommended above are very important to the health of your family. They will probably be effective in reducing lead levels because most of the lead in household water usually comes from the plumbing in your house, not from the local water supply.

Conserving water is still important. Rather than just running the water down the drain you could use the water for things such as watering your plants (Zubel, 2014).

If residents have any questions, they are encouraged to contact the Fraser Health’s Drinking Water Program at 604-870-7900 or 1-866-749-7900.

4.0 Water Main Flushing Program

The District of Hope conducts uni-directional and dead-end flushing in order to maintain a high level of water quality in the distribution system. Regularly flushing water mains removes stagnant water and deposits from pipes. Spot flushing is also conducted on an “as needed” basis due to complaints or poor water quality and sample results indicating positive *total coliform*.

5.0 Water Quality Sampling and Testing

Sampling and analysis for numerous water quality parameters are conducted on the District of Hope's distribution system on a regular basis. Sample schedules for various constituents are broken into sections based on the number of samples recommended by the *GCDWQ* and/or mandated by the *BCDWPR*. Monitoring of drinking water in the District's water distribution system is conducted for bacterial, chemical, and physical characteristics.

5.1 Metals

Metals can enter the drinking water system from either the source or in the distribution system itself. The District of Hope monitors the water distribution system for metals. Sampling is conducted every second year as per the *WQMRP*. ***Metals sampling is scheduled to occur next in 2022.***

A summary of relevant health-based MAC and Aesthetic Objective (AO) standards for metals in drinking water can be found in Table #8. This table summarizes only those parameters listed in the *GCDWQ* that are captured by the current version of the *WQMRP*.

Table #8: MAC and AO Metals Standards Modified from the Guidelines for Canadian Drinking Water Quality

Parameter	MAC (mg/l)	AO (mg/l)	Year of Approval
Aluminum		[0.1 / 0.2]	1998
Antimony	0.006		1997
Arsenic	0.010		2006
Barium	2.0		2020
Cadmium	0.007		2020
Chromium	0.05		2016
Copper	2.0	1.0	2019
Iron		≤0.3	1978 (2005)
Lead	0.005		2019
Manganese	0.12	0.02	2019
Mercury	0.001		1986
Selenium	0.05		2014
Sodium		≤200	1992
Zinc		≤5.0	1979 (2005)

5.2 Bacteriological Quality

All bacterial samples collected from municipal distribution systems are analyzed for *total coliform* and *E.coli* bacteria. The District meets or exceeds the minimum required samples per month for each of the 4 water systems. Further samples are collected by District personnel on an as needed basis in response to water main breaks, operational adjustments, water quality complaints, or where cross-connections are suspected.

Water Quality Standards for Potable Water (Sections 2 & 9)

Parameter:	Standard:
Fecal coliform bacteria	No detectable fecal coliform bacteria per 100ml
Escherichia coli	No detectable Escherichia coli per 100 ml
Total coliform bacteria	
(a) 1 sample in a 30-day period	No detectable total coliform bacteria per 100 ml
(b) more than 1 sample in a 30-day period	At least 90% of samples have no detectable total coliform bacteria per 100ml and no sample has more than 10 total coliform bacteria per 100ml

(Province of British Columbia, 2011)

Frequency of Monitoring Samples for Prescribed Water Supply Systems (Section 8)

Population Served by the Prescribed Water Supply System:	Number of Samples Per Month:
less than 5,000	4
5,000 to 90,000	1 per 1,000 of population
more than 90,000	90 plus 1 per 10,000 of population in excess of 90,000

(Province of British Columbia, 2011)

6.0 Water Distribution System Projects

6.1 Future Planning

Projects for 2022 include:

1. Continued improvements to our SCADA network
2. Reservoir cleaning, anode replacements and inspections
3. Second UV system for Lake of the Woods
4. Relocation of two water sampling stations

7.0 Emergency Response Plan

In the event of an emergency, the District may enact its Water System Emergency Response Plan. The goals of this plan are as follows:

- Rapidly restore service after an emergency
- Ensure adequate water supply for fire protection
- Minimize loss of service to users
- Provide emergency information to public
- Re-establish critical operations

Conclusion

The 2021 year had Operations staff at the District of Hope continue improvements to the day-to-day operations of the water utility and continue to work closely with the Fraser Health Authority to ensure safe, clean potable water for the District's residents.

Every year the District budgets for the study, maintenance, and replacement of critical components of the water distribution system and 2021 was no exception. Continued resource focus on the operation and maintenance of the District's water system along with completing critical infrastructure upgrades, will be pivotal to maintaining a high level of drinking water quality in the years to come.

Works Cited

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<http://www.bcstats.gov.bc.ca/statisticsbysubject/demography/populationestimates.aspx>

USEPA. (2004). *Comprehensive Surface Water Treatment Rules Quick Reference Guide: Unfiltered Systems*. Washington DC: US Environmental Protection Agency.

USEPA. (2002). *Effects of Water Age on Distribution System Water Quality*. Washington DC: US Environmental Protection Agency.

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Appendix #1 Bacterial Analysis

Sample Range Report

Fraser Health Authority

Facility Name: District of Hope Water System

Date Range: Jan 1 2021 to Dec 31 2021

Operator

<u>Sampling Site</u>	<u>Date Collected</u>	<u>Total Coliform</u>	<u>E. Coli</u>	<u>Fecal Coliform</u>
<u>Lakeview Cres</u>				
<u>Sampling Port.</u>				
<u>Opposite 21256</u>				
<u>Lakeview Cres</u>				
	1-5-2021 10:10:00 AM	LT1	LT1	
	1-12-2021 10:15:00 AM	LT1	LT1	
	1-19-2021 10:15:00 AM	LT1	LT1	
	1-26-2021 10:30:00 AM	LT1	LT1	
	2-2-2021 10:05:00 AM	LT1	LT1	
	2-9-2021 10:00:00 AM	LT1	LT1	
	2-16-2021 10:20:00 AM	LT1	LT1	
	2-23-2021 10:25:00 AM	LT1	LT1	
	3-2-2021 10:25:00 AM	LT1	LT1	
	3-9-2021 10:20:00 AM	LT1	LT1	
	3-16-2021 10:20:00 AM	LT1	LT1	
	3-23-2021 10:54:00 AM	LT1	LT1	
	3-30-2021 10:55:00 AM	LT1	LT1	
	4-6-2021 10:45:00 AM	LT1	LT1	
	4-13-2021 10:50:00 AM	LT1	LT1	
	4-20-2021 8:50:00 AM	LT1	LT1	
	4-27-2021 10:23:00 AM	LT1	LT1	
	5-4-2021 11:05:00 AM	LT1	LT1	
	5-11-2021 11:15:00	LT1	LT1	

AM 5-18-2021 11:35:00	LT1	LT1
AM 5-25-2021 10:35:00	LT1	LT1
AM 6-1-2021 10:30:00	LT1	LT1
AM 6-8-2021 11:20:00	LT1	LT1
AM 6-15-2021 11:35:00	LT1	LT1
AM 6-22-2021 10:05:00	LT1	LT1
AM 7-6-2021 11:20:00	LT1	LT1
AM 7-13-2021 11:05:00	LT1	LT1
AM 7-20-2021 9:45:00	LT1	LT1
AM 7-27-2021 9:45:00	LT1	LT1
AM 8-10-2021 10:15:00	LT1	LT1
AM 8-17-2021 11:05:00	LT1	LT1
AM 8-24-2021 10:10:00	LT1	LT1
AM 8-31-2021 10:30:00	LT1	LT1
AM 9-7-2021 11:00:00	LT1	LT1
AM 9-14-2021 10:00:00	LT1	LT1
AM 9-21-2021 10:35:00	LT1	LT1
AM 9-28-2021 10:15:00	LT1	LT1
AM 10-5-2021 10:20:00	LT1	LT1
AM 10-12-2021 9:40:00	LT1	LT1
AM 10-19-2021 9:50:00	LT1	LT1
AM 10-26-2021 10:10:00	LT1	LT1
AM 11-2-2021 8:30:00	LT1	LT1
AM 11-9-2021 11:05:00	LT1	LT1
AM 11-30-2021 9:20:00	LT1	LT1
AM 12-7-2021 11:15:00	LT1	LT1
AM 12-14-2021 9:40:00	LT1	LT1
AM 12-20-2021 11:15:00	<u>LT1</u>	<u>LT1</u>

AM
Total Positive: 0 0 0

1300 7th ave, 1300
7th ave

1-5-2021 9:15:00 AM	LT1	LT1
1-12-2021 9:25:00 AM	LT1	LT1
1-19-2021 9:15:00 AM	LT1	LT1
1-26-2021 8:31:00 AM	REJCT NSR	REJCT NSR
2-16-2021 9:10:00 AM	LT1	LT1
2-23-2021 9:30:00 AM	LT1	LT1
3-2-2021 9:20:00 AM	LT1	LT1
3-9-2021 9:00:00 AM	LT1	LT1
3-16-2021 9:30:00 AM	LT1	LT1
3-23-2021 9:15:00 AM	LT1	LT1
3-30-2021 9:45:00 AM	LT1	LT1
4-6-2021 11:40:00 AM	LT1	LT1
4-13-2021 9:10:00 AM	LT1	LT1
4-20-2021 9:39:00 AM	LT1	LT1
4-27-2021 11:00:00 AM	LT1	LT1
5-4-2021 10:00:00 AM	LT1	LT1
5-11-2021 10:15:00 AM	LT1	LT1
5-18-2021 10:35:00 AM	LT1	LT1
5-25-2021 9:15:00 AM	LT1	LT1
6-8-2021 10:20:00 AM	LT1	LT1
6-15-2021 10:20:00 AM	LT1	LT1
6-22-2021 9:10:00 AM	LT1	LT1
7-6-2021 10:00:00 AM	LT1	LT1
7-13-2021 10:00:00 AM	QRWRT	QRWRT
7-20-2021 10:20:00 AM	LT1	LT1

7-27-2021 8:55:00 AM	LT1	LT1	
8-10-2021 9:15:00 AM	LT1	LT1	
8-17-2021 10:00:00 AM	LT1	LT1	
8-24-2021 9:15:00 AM	LT1	LT1	
8-31-2021 9:00:00 AM	LT1	LT1	
9-7-2021 10:00:00 AM	LT1	LT1	
9-14-2021 8:45:00 AM	LT1	LT1	
9-21-2021 9:05:00 AM	LT1	LT1	
9-28-2021 9:10:00 AM	LT1	LT1	
10-5-2021 9:35:00 AM	LT1	LT1	
10-12-2021 11:55:00 AM	LT1	LT1	
10-19-2021 9:05:00 AM	LT1	LT1	
10-26-2021 9:00:00 AM	LT1	LT1	
11-2-2021 10:26:00 AM	LT1	LT1	
11-9-2021 9:35:00 AM	LT1	LT1	
11-30-2021 8:25:00 AM	LT1	LT1	
12-7-2021 10:15:00 AM	LT1	LT1	
12-14-2021 9:00:00 AM	LT1	LT1	
12-20-2021 10:05:00 AM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	1	0	0

Well # 10, Kawkawa
Lk Rd

1-5-2021 10:15:00 AM	LT1	LT1
2-2-2021 10:20:00 AM	LT1	LT1
2-23-2021 10:55:00 AM	LT1	LT1
3-30-2021 11:10:00 AM	LT1	LT1
5-11-2021 11:50:00 AM	LT1	LT1
6-22-2021 10:20:00 AM	LT1	LT1
7-27-2021 9:25:00	LT1	LT1

AM			
8-3-2021 8:34:00	LT1	LT1	
AM			
9-21-2021 9:20:00	LT1	LT1	
AM			
10-12-2021 10:11:00	LT1	LT1	
AM			
11-23-2021 8:00:00	LT1	LT1	
AM			
12-20-2021 11:55:00	<u>LT1</u>	<u>LT1</u>	
AM			
Total Positive:	0	0	0

District Works Yard,
1225 Nelson Ave

1-5-2021 8:55:00	LT1	LT1	
AM			
1-12-2021 9:10:00	LT1	LT1	
AM			
1-19-2021 9:05:00	LT1	LT1	
AM			
1-26-2021 8:45:00	LT1	LT1	
AM			
2-2-2021 5:38:00	LT1	LT1	
PM			
2-9-2021 9:00:00	LT1	LT1	
AM			
2-16-2021 9:00:00	LT1	LT1	
AM			
2-23-2021 9:20:00	LT1	LT1	
AM			
3-2-2021 9:10:00	LT1	LT1	
AM			
3-9-2021 8:45:00	LT1	LT1	
AM			
3-16-2021 9:15:00	LT1	LT1	
AM			
3-23-2021 8:55:00	LT1	LT1	
AM			
3-30-2021 9:25:00	LT1	LT1	
AM			
4-6-2021 9:33:00	LT1	LT1	
AM			
4-13-2021 8:55:00	LT1	LT1	
AM			
4-20-2021 9:45:00	LT1	LT1	
AM			
4-27-2021 11:10:00	LT1	LT1	
AM			
5-4-2021 9:50:00	LT1	LT1	
AM			
5-11-2021 10:00:00	LT1	LT1	
AM			
5-18-2021 10:25:00	LT1	LT1	
AM			

6-1-2021 9:05:00 AM	LT1	LT1
6-8-2021 10:00:00 AM	LT1	LT1
6-15-2021 10:00:00 AM	LT1	LT1
6-22-2021 9:00:00 AM	LT1	LT1
6-29-2021 9:30:00 AM	LT1	LT1
7-6-2021 9:45:00 AM	LT1	LT1
7-13-2021 9:50:00 AM	LT1	LT1
7-20-2021 10:27:00 AM	LT1	LT1
7-27-2021 8:45:00 AM	LT1	LT1
8-3-2021 9:16:00 AM	LT1	LT1
8-10-2021 10:40:00 AM	LT1	LT1
8-17-2021 9:50:00 AM	LT1	LT1
8-24-2021 8:30:00 AM	LT1	LT1
8-31-2021 11:08:00 AM	LT1	LT1
9-7-2021 9:45:00 AM	LT1	LT1
9-14-2021 10:45:00 AM	LT1	LT1
9-21-2021 11:10:00 AM	LT1	LT1
9-28-2021 8:55:00 AM	LT1	LT1
10-5-2021 9:10:00 AM	LT1	LT1
10-12-2021 10:40:00 AM	LT1	LT1
10-19-2021 10:55:00 AM	LT1	LT1
10-26-2021 8:00:00 AM	LT1	LT1
11-2-2021 10:40:00 AM	LT1	LT1
11-9-2021 9:10:00 AM	LT1	LT1
11-23-2021 9:35:00 AM	LT1	LT1
11-30-2021 8:20:00 AM	LT1	LT1
12-7-2021 10:00:00 AM	LT1	LT1
12-14-2021 8:45:00 AM	LT1	LT1

12-20-2021 9:00:00 AM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	0	0	0

21002 Swallow Pl.
21002 Swallow Pl.
Hope

1-5-2021 1:30:00 PM	LT1	LT1	
1-12-2021 9:50:00 AM	LT1	LT1	
1-19-2021 9:35:00 AM	LT1	LT1	
1-26-2021 9:20:00 AM	LT1	LT1	
2-2-2021 9:30:00 AM	LT1	LT1	
2-9-2021 9:25:00 AM	LT1	LT1	
2-16-2021 9:40:00 AM	LT1	LT1	
2-23-2021 9:50:00 AM	LT1	LT1	
3-2-2021 9:45:00 AM	LT1	LT1	
3-9-2021 9:20:00 AM	LT1	LT1	
3-16-2021 9:45:00 AM	LT1	LT1	
3-23-2021 9:59:00 AM	LT1	LT1	
3-30-2021 10:05:00 AM	1	LT1	
4-6-2021 10:58:00 AM	LT1	LT1	
4-13-2021 9:40:00 AM	LT1	LT1	
5-4-2021 10:30:00 AM	LT1	LT1	
5-11-2021 10:35:00 AM	LT1	LT1	
5-18-2021 10:50:00 AM	LT1	LT1	
5-25-2021 10:45:00 AM	LT1	LT1	
6-1-2021 9:45:00 AM	LT1	LT1	
6-8-2021 10:45:00 AM	LT1	LT1	
6-15-2021 10:55:00 AM	LT1	LT1	
6-22-2021 9:30:00 AM	LT1	LT1	
6-29-2021 10:05:00 AM	LT1	LT1	

7-6-2021 10:30:00 AM	LT1	LT1	
7-13-2021 10:20:00 AM	LT1	LT1	
7-20-2021 8:54:00 AM	8	LT1	
7-27-2021 9:30:00 AM	3	LT1	
8-10-2021 9:30:00 AM	13	LT1	
8-17-2021 10:30:00 AM	LT1	LT1	
8-24-2021 8:20:00 AM	LT1	LT1	
8-31-2021 9:31:00 AM	LT1	LT1	
9-7-2021 10:25:00 AM	LT1	LT1	
9-14-2021 10:30:00 AM	LT1	LT1	
9-21-2021 9:40:00 AM	1	LT1	
9-28-2021 9:30:00 AM	LT1	LT1	
10-5-2021 10:00:00 AM	LT1	LT1	
10-12-2021 8:46:00 AM	LT1	LT1	
10-19-2021 9:30:00 AM	LT1	LT1	
10-26-2021 9:20:00 AM	LT1	LT1	
11-2-2021 9:38:00 AM	LT1	LT1	
11-9-2021 9:55:00 AM	LT1	LT1	
11-23-2021 8:11:00 AM	LT1	LT1	
11-30-2021 9:00:00 AM	LT1	LT1	
12-7-2021 10:35:00 AM	LT1	LT1	
12-14-2021 9:25:00 AM	LT1	LT1	
12-20-2021 10:30:00 AM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	5	0	0

65573 Dogwood Dr.
65573 Dogwood Dr

1-5-2021 9:35:00 AM	LT1	LT1
1-19-2021 9:45:00 AM	LT1	LT1
1-26-2021 9:30:00	LT1	LT1

AM			
2-2-2021 9:35:00	LT1	LT1	
AM			
2-16-2021 9:45:00	LT1	LT1	
AM			
3-2-2021 10:40:00	LT1	LT1	
AM			
3-16-2021 9:55:00	LT1	LT1	
AM			
3-30-2021 10:20:00	LT1	LT1	
AM			
4-20-2021 8:16:00	LT1	LT1	
AM			
4-27-2021 9:23:00	LT1	LT1	
AM			
5-4-2021 10:40:00	LT1	LT1	
AM			
5-18-2021 11:05:00	LT1	LT1	
AM			
6-1-2021 9:55:00	LT1	LT1	
AM			
6-15-2021 11:05:00	LT1	LT1	
AM			
7-6-2021 10:45:00	LT1	LT1	
AM			
7-27-2021 9:40:00	LT1	LT1	
AM			
8-10-2021 9:40:00	LT1	LT1	
AM			
8-24-2021 8:10:00	LT1	LT1	
AM			
9-14-2021 9:05:00	LT1	LT1	
AM			
9-28-2021 9:35:00	LT1	LT1	
AM			
10-12-2021 8:57:00	LT1	LT1	
AM			
10-19-2021 9:40:00	LT1	LT1	
AM			
11-2-2021 9:47:00	LT1	LT1	
AM			
11-9-2021 10:10:00	LT1	LT1	
AM			
11-30-2021 9:10:00	LT1	LT1	
AM			
12-14-2021 9:30:00	LT1	LT1	
AM			
12-20-2021 10:40:00	<u>LT1</u>	<u>LT1</u>	
AM			
Total Positive:	0	0	0

Well #2, 110 King
Street

1-12-2021 8:15:00	LT1	LT1	
AM			

2-9-2021 8:00:00 AM	LT1	LT1
2-23-2021 8:00:00 AM	LT1	LT1
3-16-2021 8:05:00 AM	LT1	LT1
5-18-2021 9:45:00 AM	LT1	LT1
6-29-2021 8:15:00 AM	LT1	LT1
7-13-2021 8:20:00 AM	LT1	LT1
8-17-2021 8:15:00 AM	LT1	LT1
9-7-2021 8:20:00 AM	LT1	LT1
10-19-2021 10:45:00 AM	LT1	LT1
11-23-2021 7:31:00 AM	LT1	LT1
12-20-2021 8:30:00 AM	<u>LT1</u>	<u>LT1</u>
Total Positive:	0	0

0

Fraser Canyon
Hospital, 1275-7Th
Avenue

1-5-2021 9:20:00 AM	LT1	LT1
1-12-2021 9:30:00 AM	LT1	LT1
1-19-2021 9:25:00 AM	LT1	LT1
1-22-2021 9:30:00 AM	LT1	LT1
1-26-2021 9:00:00 AM	LT1	LT1
2-2-2021 9:20:00 AM	LT1	LT1
2-9-2021 9:15:00 AM	LT1	LT1
2-16-2021 9:25:00 AM	LT1	LT1
2-23-2021 9:35:00 AM	LT1	LT1
3-2-2021 9:40:00 AM	LT1	LT1
3-9-2021 9:10:00 AM	LT1	LT1
3-16-2021 9:40:00 AM	LT1	LT1
3-23-2021 9:26:00 AM	LT1	LT1
3-30-2021 9:55:00 AM	LT1	LT1

4-6-2021 9:57:00 AM	LT1	LT1
4-13-2021 9:25:00 AM	LT1	LT1
4-20-2021 9:31:00 AM	LT1	LT1
4-27-2021 10:52:00 AM	LT1	LT1
5-4-2021 10:20:00 AM	LT1	LT1
5-11-2021 10:25:00 AM	LT1	LT1
5-18-2021 10:50:00 AM	LT1	LT1
5-25-2021 9:30:00 AM	LT1	LT1
6-1-2021 9:35:00 AM	LT1	LT1
6-8-2021 10:30:00 AM	LT1	LT1
6-15-2021 10:35:00 AM	LT1	LT1
6-29-2021 9:45:00 AM	LT1	LT1
7-6-2021 10:15:00 AM	LT1	LT1
7-13-2021 10:05:00 AM	QRWRT	QRWRT
7-20-2021 10:10:00 AM	LT1	LT1
7-27-2021 9:05:00 AM	LT1	LT1
8-3-2021 9:06:00 AM	LT1	LT1
8-10-2021 9:20:00 AM	LT1	LT1
8-17-2021 10:15:00 AM	LT1	LT1
8-24-2021 9:20:00 AM	LT1	LT1
8-31-2021 9:15:00 AM	LT1	LT1
9-7-2021 10:15:00 AM	LT1	LT1
9-14-2021 8:55:00 AM	LT1	LT1
9-21-2021 9:15:00 AM	LT1	LT1
9-28-2021 9:20:00 AM	LT1	LT1
10-5-2021 9:45:00 AM	LT1	LT1
10-12-2021 12:10:00 PM	LT1	LT1
10-19-2021 9:15:00 AM	LT1	LT1

10-26-2021 9:10:00 AM	LT1	LT1	
11-2-2021 10:18:00 AM	LT1	LT1	
11-9-2021 9:45:00 AM	LT1	LT1	
11-23-2021 9:05:00 AM	LT1	LT1	
11-30-2021 8:35:00 AM	LT1	LT1	
12-7-2021 10:20:00 AM	LT1	LT1	
12-14-2021 9:15:00 AM	LT1	LT1	
12-20-2021 10:15:00 AM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	0	0	0

Well #1, Hope Fire
Hall - Third Ave

1-12-2021 7:20:00 AM	LT1	LT1	
2-9-2021 7:25:00 AM	LT1	LT1	
3-2-2021 7:20:00 AM	LT1	LT1	
3-30-2021 7:35:00 AM	LT1	LT1	
4-6-2021 7:55:00 AM	LT1	LT1	
5-4-2021 8:00:00 AM	LT1	LT1	
6-8-2021 7:40:00 AM	LT1	LT1	
7-13-2021 7:30:00 AM	QRWRT	QRWRT	
8-24-2021 7:25:00 AM	LT1	LT1	
9-28-2021 7:28:00 AM	LT1	LT1	
10-5-2021 7:30:00 AM	LT1	LT1	
11-23-2021 6:50:00 AM	LT1	LT1	
12-7-2021 8:00:00 AM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	0	0	0

21427 Thacker Mtn
Rd, 21427 Thacker
Mtn Rd

1-12-2021 10:30:00 AM	LT1	LT1	
1-19-2021 10:23:00	LT1	LT1	

AM		
1-26-2021 10:30:00	LT1	LT1
AM		
2-9-2021 10:20:00	LT1	LT1
AM		
2-23-2021 10:40:00	LT1	LT1
AM		
3-9-2021 10:40:00	LT1	LT1
AM		
3-23-2021 11:19:00	LT1	LT1
AM		
4-6-2021 11:16:00	LT1	LT1
AM		
4-20-2021 9:06:00	LT1	LT1
AM		
4-27-2021 10:39:00	LT1	LT1
AM		
5-11-2021 11:35:00	LT1	LT1
AM		
5-25-2021 11:00:00	LT1	LT1
AM		
6-1-2021 11:00:00	LT1	LT1
AM		
6-15-2021 11:50:00	LT1	LT1
AM		
7-6-2021 11:45:00	LT1	LT1
AM		
7-20-2021 9:58:00	LT1	LT1
AM		
8-10-2021 10:25:00	LT1	LT1
AM		
8-31-2021 10:45:00	LT1	LT1
AM		
9-7-2021 11:10:00	LT1	LT1
AM		
9-21-2021 10:50:00	LT1	LT1
AM		
10-5-2021 10:30:00	LT1	LT1
AM		
10-12-2021 9:56:00	LT1	LT1
AM		
10-19-2021 10:25:00	LT1	LT1
AM		
11-2-2021 10:02:00	LT1	LT1
AM		
11-30-2021 8:50:00	LT1	LT1
AM		
12-7-2021 11:30:00	LT1	LT1
AM		
12-14-2021 10:15:00	LT1	LT1
AM		
12-20-2021 11:30:00	<u>LT1</u>	<u>LT1</u>
AM		
Total Positive:	0	0

0

7th Avenue
Sampling Port, 225
7th Ave

1-5-2021 10:25:00 AM	LT1	LT1
1-12-2021 10:45:00 AM	LT1	LT1
1-19-2021 10:40:00 AM	LT1	LT1
1-26-2021 10:45:00 AM	LT1	LT1
2-2-2021 10:30:00 AM	LT1	LT1
2-9-2021 5:38:00 PM	LT1	LT1
2-16-2021 10:50:00 AM	LT1	LT1
2-23-2021 11:10:00 AM	LT1	LT1
3-2-2021 10:55:00 AM	LT1	LT1
3-9-2021 11:10:00 AM	LT1	LT1
3-16-2021 10:30:00 AM	LT1	LT1
3-23-2021 11:50:00 AM	LT1	LT1
3-30-2021 11:25:00 AM	LT1	LT1
4-6-2021 8:31:00 AM	LT1	LT1
4-13-2021 11:05:00 AM	LT1	LT1
4-20-2021 7:58:00 AM	LT1	LT1
4-27-2021 8:48:00 AM	LT1	LT1
5-4-2021 11:30:00 AM	LT1	LT1
5-11-2021 11:55:00 AM	LT1	LT1
5-18-2021 8:40:00 AM	LT1	LT1
5-25-2021 11:30:00 AM	LT1	LT1
6-1-2021 9:25:00 AM	LT1	LT1
6-8-2021 11:40:00 AM	LT1	LT1
6-15-2021 12:20:00 PM	LT1	LT1
6-22-2021 10:40:00 AM	LT1	LT1
6-29-2021 11:00:00 AM	LT1	LT1
7-6-2021 12:00:00	LT1	LT1

7-13-2021 11:25:00 PM AM	LT1	LT1	
7-20-2021 8:18:00 AM	LT1	LT1	
7-27-2021 10:25:00 AM	ESTCT 1200 ESTHCD	LT1	
8-3-2021 8:21:00 AM	ESTCT 210 ESTHCD	LT1	
8-10-2021 10:55:00 AM	149	LT1	
8-17-2021 11:30:00 AM	LT1	LT1	
8-24-2021 10:30:00 AM	LT1	LT1	
8-31-2021 11:25:00 AM	LT1	LT1	
9-7-2021 11:30:00 AM	LT1	LT1	
9-14-2021 10:55:00 AM	LT1	LT1	
9-21-2021 11:15:00 AM	LT1	LT1	
9-28-2021 10:35:00 AM	LT1	LT1	
10-5-2021 11:00:00 AM	LT1	LT1	
10-12-2021 8:27:00 AM	LT1	LT1	
10-19-2021 11:00:00 AM	LT1	LT1	
10-26-2021 10:40:00 AM	LT1	LT1	
11-2-2021 8:21:00 AM	LT1	LT1	
11-9-2021 11:35:00 AM	LT1	LT1	
11-23-2021 7:45:00 AM	LT1	LT1	
11-30-2021 10:15:00 AM	LT1	LT1	
12-7-2021 11:59:00 AM	LT1	LT1	
12-14-2021 10:50:00 AM	LT1	LT1	
12-20-2021 12:10:00 PM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	3	0	0

District Hall, 325
Wallace Street

1-5-2021 10:40:00 AM	LT1	LT1
1-12-2021 11:00:00 AM	LT1	LT1

1-19-2021 10:55:00 AM	LT1	LT1
1-26-2021 11:00:00 AM	LT1	LT1
2-2-2021 10:40:00 AM	LT1	LT1
2-9-2021 11:00:00 AM	LT1	LT1
2-16-2021 11:00:00 AM	LT1	LT1
2-23-2021 11:15:00 AM	LT1	LT1
3-2-2021 11:10:00 AM	LT1	LT1
3-9-2021 11:20:00 AM	LT1	LT1
3-16-2021 10:40:00 AM	LT1	LT1
3-23-2021 12:02:00 PM	LT1	LT1
3-30-2021 11:40:00 AM	LT1	LT1
4-6-2021 8:42:00 AM	LT1	LT1
4-13-2021 11:11:00 AM	LT1	LT1
4-20-2021 10:00:00 AM	LT1	LT1
4-27-2021 9:00:00 AM	LT1	LT1
5-4-2021 11:45:00 AM	LT1	LT1
5-18-2021 9:00:00 AM	LT1	LT1
5-25-2021 11:45:00 AM	LT1	LT1
6-1-2021 11:10:00 AM	LT1	LT1
6-8-2021 11:50:00 AM	LT1	LT1
6-22-2021 10:55:00 AM	LT1	LT1
6-29-2021 11:10:00 AM	LT1	LT1
7-13-2021 11:35:00 AM	LT1	LT1
7-20-2021 8:37:00 AM	LT1	LT1
7-27-2021 10:45:00 AM	LT1	LT1
8-3-2021 9:26:00 AM	LT1	LT1
8-10-2021 11:15:00 AM	LT1	LT1
8-17-2021 11:40:00 AM	LT1	LT1

8-24-2021 11:00:00 AM	LT1	LT1	
8-31-2021 11:25:00 AM	LT1	LT1	
9-7-2021 11:35:00 AM	LT1	LT1	
9-14-2021 11:15:00 AM	LT1	LT1	
9-21-2021 11:30:00 AM	LT1	LT1	
9-28-2021 10:45:00 AM	LT1	LT1	
10-5-2021 11:15:00 AM	LT1	LT1	
10-12-2021 10:25:00 AM	LT1	LT1	
10-19-2021 11:20:00 AM	LT1	LT1	
10-26-2021 10:45:00 AM	LT1	LT1	
11-2-2021 8:35:00 AM	LT1	LT1	
11-9-2021 11:35:00 AM	LT1	LT1	
11-23-2021 9:17:00 AM	LT1	LT1	
11-30-2021 10:45:00 AM	LT1	LT1	
12-7-2021 12:10:00 PM	LT1	LT1	
12-14-2021 11:00:00 AM	LT1	LT1	
12-20-2021 12:25:00 PM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	0	0	0

Well # 3,

2-2-2021 10:15:00 AM	LT1	LT1
2-16-2021 10:30:00 AM	LT1	LT1
3-23-2021 11:35:00 AM	LT1	LT1
4-27-2021 9:13:00 AM	LT1	LT1
5-4-2021 11:25:00 AM	LT1	LT1
6-15-2021 12:05:00 PM	LT1	LT1
7-27-2021 9:10:00 AM	LT1	LT1
8-31-2021 9:20:00 AM	LT1	LT1
9-7-2021 11:20:00 AM	LT1	LT1

10-26-2021 10:30:00 AM	LT1	LT1	
11-23-2021 8:50:00 AM	LT1	LT1	
12-7-2021 11:45:00 AM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	0	0	0

Result Values: **E - estimated** **L - less than** **G - greater than**

Samples that contain total coliform:	9		2.05% of total
Samples that contain e. coli:	0		0.00% of total
Samples that contain fecal coliform:	0		0.00% of total
Number of consecutive samples that contain total coliform:	4		
Number of samples that contain total coliform in last 30 days:	0/0		
Total number of samples:	438		

Comments:

Environmental Health Officer
Feb 10 2022

FOR FURTHER INFORMATION PLEASE CALL: Jessica Hibbs (604) 870-7900

Sample Range Report

Fraser Health Authority

Facility Name: East Kawkawa Lake Water System

Date Range: Jan 1 2021 to Dec 31 2021

Operator

<u>Sampling Site</u>	<u>Date Collected</u>	<u>Total Coliform</u>	<u>E. Coli</u>	<u>Fecal Coliform</u>
<u>66621 Kereluck,</u> <u>66621 Kereluck</u>				
	1-5-2021 10:00:00 AM	LT1	LT1	
	1-12-2021 10:10:00 AM	LT1	LT1	
	1-19-2021 10:05:00 AM	LT1	LT1	
	1-26-2021 10:00:00 AM	LT1	LT1	
	2-2-2021 9:55:00 AM	LT1	LT1	
	2-9-2021 9:50:00 AM	LT1	LT1	
	2-16-2021 10:10:00 AM	LT1	LT1	
	2-23-2021 10:05:00 AM	LT1	LT1	
	3-2-2021 10:15:00 AM	LT1	LT1	
	3-9-2021 9:45:00 AM	LT1	LT1	
	3-16-2021 10:05:00 AM	LT1	LT1	
	3-23-2021 10:40:00 AM	LT1	LT1	
	3-30-2021 10:45:00 AM	LT1	LT1	
	4-6-2021 10:26:00 AM	LT1	LT1	
	4-13-2021 9:55:00 AM	LT1	LT1	
	4-20-2021 8:28:00 AM	LT1	LT1	
	4-27-2021 10:11:00 AM	LT1	LT1	
	5-4-2021 11:00:00 AM	60	LT1	
	5-11-2021 10:55:00 AM	LT1	LT1	
	5-18-2021 11:25:00	LT1	LT1	

AM		
5-25-2021 10:14:00	LT1	LT1
AM		
6-1-2021 10:15:00	LT1	LT1
AM		
6-8-2021 11:15:00	LT1	LT1
AM		
6-15-2021 11:25:00	LT1	LT1
AM		
6-22-2021 9:55:00	LT1	LT1
AM		
6-29-2021 10:20:00	LT1	LT1
AM		
7-6-2021 11:05:00	LT1	LT1
AM		
7-13-2021 10:45:00	QRWRT	QRWRT
AM		
7-20-2021 9:17:00	LT1	LT1
AM		
7-27-2021 10:00:00	LT1	LT1
AM		
8-10-2021 10:00:00	LT1	LT1
AM		
8-17-2021 10:50:00	LT1	LT1
AM		
8-24-2021 9:55:00	LT1	LT1
AM		
8-31-2021 10:20:00	LT1	LT1
AM		
9-7-2021 10:50:00	LT1	LT1
AM		
9-14-2021 9:25:00	LT1	LT1
AM		
9-21-2021 10:20:00	LT1	LT1
AM		
9-28-2021 10:00:00	LT1	LT1
AM		
10-5-2021 10:15:00	LT1	LT1
AM		
10-12-2021 9:23:00	LT1	LT1
AM		
10-19-2021 10:15:00	LT1	LT1
AM		
10-26-2021 9:45:00	LT1	LT1
AM		
11-2-2021 9:01:00	LT1	LT1
AM		
11-9-2021 10:55:00	LT1	LT1
AM		
11-23-2021 8:34:00	LT1	LT1
AM		
11-30-2021 9:50:00	LT1	LT1
AM		
12-7-2021 11:10:00	LT1	LT1
AM		
12-14-2021 10:00:00	LT1	LT1

AM			
12-20-2021 11:00:00	<u>LT1</u>	<u>LT1</u>	
AM			
Total Positive:	1	0	0

Johnson Rd.

1-26-2021 10:00:00	LT1	LT1	
AM			
3-9-2021 10:00:00	LT1	LT1	
AM			
3-16-2021 10:15:00	LT1	LT1	
AM			
4-6-2021 10:10:00	LT1	LT1	
AM			
5-25-2021 10:30:00	LT1	LT1	
AM			
6-1-2021 10:20:00	LT1	LT1	
AM			
7-13-2021 11:00:00	LT1	LT1	
AM			
8-3-2021 8:43:00	LT1	LT1	
AM			
9-14-2021 9:40:00	LT1	LT1	
AM			
10-26-2021 9:55:00	LT1	LT1	
AM			
11-23-2021 8:23:00	<u>LT1</u>	<u>LT1</u>	
AM			
Total Positive:	0	0	0

Stephens Rd
Sampling Port.
66456 Stephens Rd

1-5-2021 9:50:00	LT1	LT1	
AM			
1-12-2021 10:00:00	LT1	LT1	
AM			
1-19-2021 9:55:00	LT1	LT1	
AM			
1-26-2021 9:45:00	LT1	LT1	
AM			
2-2-2021 9:50:00	LT1	LT1	
AM			
2-9-2021 9:40:00	LT1	LT1	
AM			
2-16-2021 9:55:00	LT1	LT1	
AM			
2-23-2021 10:10:00	LT1	LT1	
AM			
3-2-2021 10:05:00	LT1	LT1	
AM			
3-9-2021 9:35:00	LT1	LT1	
AM			
3-16-2021 10:00:00	LT1	LT1	

AM 3-23-2021 10:22:00	LT1	LT1
AM 3-30-2021 10:30:00	LT1	LT1
AM 4-6-2021 10:35:00	LT1	LT1
AM 4-13-2021 10:05:00	LT1	LT1
AM 4-20-2021 8:38:00	LT1	LT1
AM 4-27-2021 10:04:00	LT1	LT1
AM 5-4-2021 10:50:00	LT1	LT1
AM 5-11-2021 10:45:00	LT1	LT1
AM 5-18-2021 11:15:00	LT1	LT1
AM 5-25-2021 10:15:00	LT1	LT1
AM 6-1-2021 10:00:00	LT1	LT1
AM 6-8-2021 11:00:00	LT1	LT1
AM 6-15-2021 11:20:00	LT1	LT1
AM 6-22-2021 9:45:00	LT1	LT1
AM 7-6-2021 11:00:00	LT1	LT1
AM 7-13-2021 10:35:00	LT1	LT1
AM 7-20-2021 9:06:00	LT1	LT1
AM 7-27-2021 9:50:00	LT1	LT1
AM 8-10-2021 9:55:00	LT1	LT1
AM 8-17-2021 10:40:00	LT1	LT1
AM 8-24-2021 9:45:00	LT1	LT1
AM 8-31-2021 10:05:00	LT1	LT1
AM 9-7-2021 10:40:00	LT1	LT1
AM 9-14-2021 9:15:00	LT1	LT1
AM 9-21-2021 10:15:00	LT1	LT1
AM 9-28-2021 9:55:00	LT1	LT1
AM 10-5-2021 10:05:00	LT1	LT1
AM 10-12-2021 9:11:00	LT1	LT1

AM			
10-19-2021 10:00:00	LT1	LT1	
AM			
10-26-2021 9:35:00	LT1	LT1	
AM			
11-2-2021 8:51:00	LT1	LT1	
AM			
11-9-2021 10:50:00	LT1	LT1	
AM			
11-30-2021 9:35:00	LT1	LT1	
AM			
12-7-2021 10:55:00	LT1	LT1	
AM			
12-14-2021 9:55:00	<u>LT1</u>	<u>LT1</u>	
AM			
Total Positive:	0	0	0

Result Values: **E - estimated** **L - less than** **G - greater than**

Samples that contain total coliform:	1	0.94% of total
Samples that contain e. coli:	0	0.00% of total
Samples that contain fecal coliform:	0	0.00% of total
Number of consecutive samples that contain total coliform:	0	
Number of samples that contain total coliform in last 30 days:	0/0	
Total number of samples:	106	

Comments:

Environmental Health Officer
Feb 10 2022

FOR FURTHER INFORMATION PLEASE CALL: Jessica Hibbs (604) 870-7900

Sample Range Report

Fraser Health Authority

Facility Name: Silver Creek Water System

Date Range: Jan 1 2021 to Dec 31 2021

Operator

<u>Sampling Site</u>	<u>Date Collected</u>	<u>Total Coliform</u>	<u>E. Coli</u>	<u>Fecal Coliform</u>
<u>Old Yale Rd</u>				
<u>Sampling Port.</u>				
<u>63950 Old Yale Rd</u>				
	1-5-2021 8:30:00 AM	LT1	LT1	
	1-12-2021 8:55:00 AM	LT1	LT1	
	1-19-2021 8:50:00 AM	LT1	LT1	
	1-26-2021 8:30:00 AM	LT1	LT1	
	2-2-2021 8:40:00 AM	LT1	LT1	
	2-9-2021 8:55:00 AM	LT1	LT1	
	2-16-2021 8:45:00 AM	LT1	LT1	
	2-23-2021 8:50:00 AM	LT1	LT1	
	3-2-2021 8:55:00 AM	LT1	LT1	
	3-9-2021 8:30:00 AM	LT1	LT1	
	3-16-2021 9:05:00 AM	LT1	LT1	
	3-23-2021 8:40:00 AM	LT1	LT1	
	3-30-2021 9:05:00 AM	LT1	LT1	
	4-6-2021 9:12:00 AM	LT1	LT1	
	4-13-2021 8:45:00 AM	LT1	LT1	
	4-20-2021 10:44:00 AM	LT1	LT1	
	4-27-2021 8:16:00 AM	LT1	LT1	
	5-4-2021 9:35:00 AM	LT1	LT1	
	5-11-2021 9:25:00 AM	LT1	LT1	

5-18-2021 10:10:00 AM	LT1	LT1
5-25-2021 9:00:00 AM	LT1	LT1
6-1-2021 8:55:00 AM	LT1	LT1
6-8-2021 9:50:00 AM	LT1	LT1
6-15-2021 9:35:00 AM	LT1	LT1
6-22-2021 8:45:00 AM	LT1	LT1
6-29-2021 9:10:00 AM	1	LT1
7-6-2021 9:30:00 AM	LT1	LT1
7-13-2021 9:35:00 AM	LT1	LT1
7-20-2021 11:15:00 AM	LT1	LT1
7-27-2021 8:35:00 AM	LT1	LT1
8-3-2021 10:10:00 AM	LT1	LT1
8-10-2021 8:50:00 AM	1	LT1
8-17-2021 9:15:00 AM	LT1	LT1
8-24-2021 8:55:00 AM	1	LT1
8-31-2021 8:40:00 AM	LT1	LT1
9-7-2021 9:20:00 AM	LT1	LT1
9-14-2021 8:35:00 AM	LT1	LT1
9-21-2021 8:50:00 AM	LT1	LT1
9-28-2021 8:45:00 AM	1	LT1
10-5-2021 9:00:00 AM	LT1	LT1
10-12-2021 11:37:00 AM	LT1	LT1
10-19-2021 8:50:00 AM	LT1	LT1
10-26-2021 7:40:00 AM	LT1	LT1
11-2-2021 11:25:00 AM	LT1	LT1
11-9-2021 8:46:00 AM	LT1	LT1
11-23-2021 10:30:00 AM	LT1	LT1
11-30-2021 7:55:00 AM	LT1	LT1

12-7-2021 9:45:00 AM	LT1	LT1	
12-14-2021 8:30:00 AM	LT1	LT1	
12-20-2021 9:30:00 AM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	4	0	0

Pumphouse #5.
Uplands Drive /
19590 Silverhope
Road

1-5-2021 8:25:00 AM	LT1	LT1
1-26-2021 8:25:00 AM	LT1	LT1
2-9-2021 8:40:00 AM	LT1	LT1
2-16-2021 8:40:00 AM	LT1	LT1
3-2-2021 8:35:00 AM	LT1	LT1
3-23-2021 8:30:00 AM	LT1	LT1
4-6-2021 9:03:00 AM	LT1	LT1
4-13-2021 8:35:00 AM	LT1	LT1
4-20-2021 10:24:00 AM	LT1	LT1
4-27-2021 8:00:00 AM	LT1	LT1
5-11-2021 9:10:00 AM	LT1	LT1
5-25-2021 8:45:00 AM	LT1	LT1
6-1-2021 8:45:00 AM	LT1	LT1
6-8-2021 9:40:00 AM	LT1	LT1
6-15-2021 9:20:00 AM	LT1	LT1
7-6-2021 9:15:00 AM	LT1	LT1
7-20-2021 11:07:00 AM	LT1	LT1
8-10-2021 8:45:00 AM	LT1	LT1
8-17-2021 9:05:00 AM	LT1	LT1
9-14-2021 8:15:00 AM	LT1	LT1
9-28-2021 8:25:00 AM	LT1	LT1
10-5-2021 8:50:00	LT1	LT1

AM			
10-26-2021 7:25:00	2	LT1	
AM			
11-2-2021 11:15:00	LT1	LT1	
AM			
11-30-2021 7:30:00	LT1	LT1	
AM			
12-7-2021 9:30:00	LT1	LT1	
AM			
12-20-2021 9:15:00	<u>LT1</u>	<u>LT1</u>	
AM			
Total Positive:	1	0	0

Marie St. Sampling
Port, 63810 Flood
Hope Rd & Marie St.

1-5-2021 8:10:00	LT1	LT1
AM		
1-12-2021 8:40:00	LT1	LT1
AM		
1-19-2021 8:25:00	LT1	LT1
AM		
1-26-2021 8:15:00	LT1	LT1
AM		
2-2-2021 8:25:00	LT1	LT1
AM		
2-9-2021 8:30:00	LT1	LT1
AM		
2-16-2021 8:20:00	LT1	LT1
AM		
2-23-2021 8:40:00	LT1	LT1
AM		
3-2-2021 8:25:00	LT1	LT1
AM		
3-9-2021 8:20:00	LT1	LT1
AM		
3-16-2021 8:55:00	LT1	LT1
AM		
3-23-2021 8:15:00	LT1	LT1
AM		
3-30-2021 8:50:00	LT1	LT1
AM		
4-6-2021 8:54:00	LT1	LT1
AM		
4-13-2021 8:20:00	LT1	LT1
AM		
4-20-2021 10:33:00	LT1	LT1
AM		
4-27-2021 8:08:00	LT1	LT1
AM		
5-4-2021 9:25:00	LT1	LT1
AM		
5-11-2021 9:00:00	LT1	LT1
AM		
5-18-2021 10:00:00	LT1	LT1

AM		
5-25-2021 8:45:00	LT1	LT1
AM		
6-1-2021 8:25:00	LT1	LT1
AM		
6-8-2021 9:30:00	LT1	LT1
AM		
6-15-2021 9:05:00	LT1	LT1
AM		
6-22-2021 8:30:00	LT1	LT1
AM		
7-6-2021 9:00:00	LT1	LT1
AM		
7-13-2021 9:25:00	LT1	LT1
AM		
7-20-2021 10:58:00	LT1	LT1
AM		
7-27-2021 8:25:00	LT1	LT1
AM		
8-10-2021 8:35:00	LT1	LT1
AM		
8-17-2021 8:45:00	LT1	LT1
AM		
8-24-2021 8:50:00	LT1	LT1
AM		
8-31-2021 8:30:00	LT1	LT1
AM		
9-7-2021 9:05:00	LT1	LT1
AM		
9-14-2021 8:30:00	LT1	LT1
AM		
9-21-2021 8:30:00	LT1	LT1
AM		
9-28-2021 8:40:00	LT1	LT1
AM		
10-5-2021 8:35:00	LT1	LT1
AM		
10-12-2021 11:21:00	LT1	LT1
AM		
10-19-2021 8:20:00	LT1	LT1
AM		
10-26-2021 7:10:00	LT1	LT1
AM		
11-9-2021 8:40:00	LT1	LT1
AM		
11-23-2021 10:50:00	LT1	LT1
AM		
11-30-2021 8:05:00	LT1	LT1
AM		
12-7-2021 9:15:00	LT1	LT1
AM		
12-14-2021 8:20:00	LT1	LT1
AM		
12-20-2021 9:05:00	<u>LT1</u>	<u>LT1</u>
AM		
Total Positive:	0	0

0

Well # 11, 20118
Beacon Rd

1-5-2021 8:00:00 AM	LT1	LT1
1-12-2021 8:30:00 AM	LT1	LT1
1-19-2021 8:10:00 AM	LT1	LT1
1-26-2021 8:00:00 AM	LT1	LT1
2-2-2021 8:00:00 AM	LT1	LT1
2-9-2021 8:20:00 AM	LT1	LT1
2-16-2021 8:15:00 AM	LT1	LT1
2-23-2021 8:18:00 AM	LT1	LT1
3-2-2021 8:10:00 AM	LT1	LT1
3-9-2021 7:55:00 AM	LT1	LT1
3-16-2021 8:30:00 AM	LT1	LT1
3-23-2021 7:57:00 AM	LT1	LT1
3-30-2021 8:25:00 AM	LT1	LT1
4-6-2021 9:21:00 AM	LT1	LT1
4-13-2021 8:00:00 AM	LT1	LT1
4-27-2021 7:40:00 AM	LT1	LT1
5-4-2021 9:10:00 AM	LT1	LT1
5-11-2021 8:30:00 AM	LT1	LT1
5-18-2021 9:55:00 AM	LT1	LT1
5-25-2021 8:30:00 AM	LT1	LT1
6-1-2021 8:10:00 AM	LT1	LT1
6-8-2021 8:55:00 AM	LT1	LT1
6-15-2021 8:40:00 AM	LT1	LT1
6-22-2021 8:20:00 AM	LT1	LT1
6-29-2021 8:40:00 AM	LT1	LT1
7-6-2021 8:45:00 AM	LT1	LT1

7-13-2021 8:40:00 AM	QRWRT	QRWRT	
7-20-2021 10:40:00 AM	LT1	LT1	
7-27-2021 8:15:00 AM	LT1	LT1	
8-3-2021 9:40:00 AM	LT1	LT1	
8-10-2021 9:00:00 AM	LT1	LT1	
8-17-2021 8:30:00 AM	LT1	LT1	
8-24-2021 8:45:00 AM	LT1	LT1	
8-31-2021 8:15:00 AM	LT1	LT1	
9-7-2021 8:40:00 AM	LT1	LT1	
9-14-2021 8:05:00 AM	LT1	LT1	
9-21-2021 8:20:00 AM	LT1	LT1	
9-28-2021 8:15:00 AM	LT1	LT1	
10-5-2021 8:20:00 AM	LT1	LT1	
10-12-2021 11:00:00 AM	LT1	LT1	
10-19-2021 8:30:00 AM	LT1	LT1	
10-26-2021 6:55:00 AM	LT1	LT1	
11-2-2021 10:55:00 AM	LT1	LT1	
11-9-2021 8:10:00 AM	LT1	LT1	
11-23-2021 10:10:00 AM	LT1	LT1	
11-30-2021 7:30:00 AM	LT1	LT1	
12-7-2021 8:55:00 AM	LT1	LT1	
12-14-2021 8:10:00 AM	LT1	LT1	
12-20-2021 9:00:00 AM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	0	0	0

Pumphouse #4.
Cypress

1-12-2021 8:50:00 AM	LT1	LT1	
1-19-2021 8:35:00 AM	LT1	LT1	
2-2-2021 8:20:00	LT1	LT1	

AM		
2-23-2021 8:30:00	LT1	LT1
AM		
3-9-2021 8:15:00	LT1	LT1
AM		
3-16-2021 8:40:00	LT1	LT1
AM		
3-30-2021 8:35:00	LT1	LT1
AM		
4-13-2021 8:10:00	LT1	LT1
AM		
4-20-2021 10:12:00	LT1	LT1
AM		
4-27-2021 7:51:00	LT1	LT1
AM		
5-11-2021 8:45:00	LT1	LT1
AM		
5-25-2021 8:30:00	LT1	LT1
AM		
6-1-2021 8:20:00	LT1	LT1
AM		
6-8-2021 9:15:00	LT1	LT1
AM		
6-15-2021 8:50:00	LT1	LT1
AM		
7-6-2021 8:30:00	LT1	LT1
AM		
7-20-2021 10:49:00	LT1	LT1
AM		
8-3-2021 9:51:00	LT1	LT1
AM		
8-10-2021 8:25:00	LT1	LT1
AM		
9-7-2021 8:50:00	LT1	LT1
AM		
9-21-2021 8:10:00	LT1	LT1
AM		
10-12-2021 11:30:00	LT1	LT1
AM		
10-19-2021 8:40:00	LT1	LT1
AM		
11-2-2021 11:05:00	LT1	LT1
AM		
11-9-2021 8:25:00	LT1	LT1
AM		
11-23-2021 9:55:00	LT1	LT1
AM		
12-7-2021 8:40:00	LT1	LT1
AM		
12-20-2021 8:40:00	<u>LT1</u>	<u>LT1</u>
AM		
Total Positive:	0	0

0

Result Values:

E - estimated

L - less than

G - greater than

Samples that contain total coliform:	5	2.49% of total
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Samples that contain e. coli:	0	0.00% of total
Samples that contain fecal coliform:	0	0.00% of total
Number of consecutive samples that contain total coliform:	0	
Number of samples that contain total coliform in last 30 days:	0/0	
Total number of samples:	201	

Comments:

Environmental Health Officer
Feb 10 2022

FOR FURTHER INFORMATION PLEASE CALL: Jessica Hibbs (604) 870-7900

Sample Range Report

Fraser Health Authority

Facility Name: Lake Of The Woods Water System

Date Range: Jan 1 2021 to Dec 31 2021

Operator

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
<u>Arseneau Rd.</u>				
	1-19-2021 7:50:00 AM	LT1	LT1	
	4-20-2021 7:35:00 AM	LT1	LT1	
	10-5-2021 8:10:00 AM	<u>LT1</u>	<u>LT1</u>	
	Total Positive:	0	0	0
 <u>Pumphouse Active.</u>				
<u>Ross Rd.</u>				
	1-5-2021 7:35:00 AM	LT1	LT1	
	1-12-2021 7:50:00 AM	LT1	LT1	
	1-19-2021 7:55:00 AM	LT1	LT1	
	1-26-2021 7:45:00 AM	LT1	LT1	
	2-2-2021 7:30:00 AM	LT1	LT1	
	2-9-2021 7:45:00 AM	LT1	LT1	
	2-16-2021 7:50:00 AM	LT1	LT1	
	2-23-2021 7:45:00 AM	LT1	LT1	
	3-2-2021 7:40:00 AM	LT1	LT1	
	3-9-2021 7:35:00 AM	LT1	LT1	
	3-16-2021 7:50:00 AM	LT1	LT1	
	3-23-2021 7:35:00 AM	LT1	LT1	
	3-30-2021 8:00:00 AM	LT1	LT1	
	4-6-2021 8:15:00 AM	LT1	LT1	
	4-13-2021 7:40:00	LT1	LT1	

AM		
4-27-2021 8:37:00	LT1	LT1
AM		
5-4-2021 8:30:00	LT1	LT1
AM		
5-11-2021 7:45:00	LT1	LT1
AM		
5-18-2021 8:15:00	LT1	LT1
AM		
5-18-2021 9:30:00	LT1	LT1
AM		
5-25-2021 8:00:00	LT1	LT1
AM		
6-1-2021 7:45:00	LT1	LT1
AM		
6-8-2021 8:00:00	LT1	LT1
AM		
6-15-2021 8:00:00	LT1	LT1
AM		
6-22-2021 7:45:00	LT1	LT1
AM		
7-6-2021 8:00:00	LT1	LT1
AM		
7-13-2021 8:00:00	QRWRT	QRWRT
AM		
7-20-2021 8:00:00	1	LT1
AM		
7-27-2021 7:45:00	LT1	LT1
AM		
8-3-2021 8:03:00	LT1	LT1
AM		
8-10-2021 8:30:00	LT1	LT1
AM		
8-17-2021 7:50:00	LT1	LT1
AM		
8-24-2021 7:40:00	LT1	LT1
AM		
8-31-2021 7:45:00	LT1	LT1
AM		
9-7-2021 7:50:00	LT1	LT1
AM		
9-14-2021 7:30:00	LT1	LT1
AM		
9-21-2021 7:45:00	LT1	LT1
AM		
9-28-2021 7:45:00	LT1	LT1
AM		
10-5-2021 8:00:00	LT1	LT1
AM		
10-12-2021 8:05:00	LT1	LT1
AM		
10-19-2021 7:53:00	LT1	LT1
AM		
10-26-2021 6:30:00	LT1	LT1
AM		
11-2-2021 8:00:00	LT1	LT1

AM			
11-9-2021 7:45:00	LT1	LT1	
AM			
11-23-2021 7:15:00	LT1	LT1	
AM			
11-30-2021 10:35:00	1	LT1	
AM			
12-7-2021 8:15:00	LT1	LT1	
AM			
12-14-2021 7:45:00	LT1	LT1	
AM			
12-20-2021 8:00:00	<u>LT1</u>	<u>LT1</u>	
AM			
Total Positive:	2	0	0

Result Values: **E - estimated** **L - less than** **G - greater than**

Samples that contain total coliform:	2	3.85% of total
Samples that contain e. coli:	0	0.00% of total
Samples that contain fecal coliform:	0	0.00% of total
Number of consecutive samples that contain total coliform:	0	
Number of samples that contain total coliform in last 30 days:	0/0	
Total number of samples:	52	

Comments:

Environmental Health Officer
Feb 10 2022

FOR FURTHER INFORMATION PLEASE CALL: Jessica Hibbs (604) 870-7900

Appendix #2 Chemical Analysis