

February 1, 2022

Dear: Water System Operator

#### Re: Annual Reporting Requirements for Permitted Water Systems

Please find enclosed a copy of the 2021 Range Report for your water system. This report contains a summary of the bacteriological water quality results for the samples submitted through Fraser Health from your water system within the 2021 calendar year. As per the Drinking Water Protection Act the report is required to be made available to all users by June 30th 2022.

# Please email HPLand@fraserhealth.ca if you would like to request a copy of the Annual Report Template.

The following are reminders for all water system operators:

- a) As drinking water testing has been deemed an essential service, all health units continue to remain open for sample drop-off on their regular designated days.
- b) Please do not use expired requisition forms as this will result in the samples either not being processed or results not being returned properly from the lab. Please discard all expired requisition forms. The expiration date is located on the bottom of the form.
- c) Please do not modify sample sites or other sections on the requisition forms. Key information is contained in the barcode and the lab is unable to include handwritten information. Please contact HPLand@fraserhealth.ca to request any changes to your requisition forms.
- d) Ensure the lead flush message provided is included with your Annual Report.
- e) The coding system from BCCDC has recently changed.

**QRWRT** indicates that the sample exceeded the 30 hour hold time. This could be due to courier issues or an incorrect date being recorded by the operator on the requisition forms. Water systems will still be given credit for the sample collected and a qualitative result is provided to Fraser Health. If there is bacteria detected, a separate email will be sent to the operator from Fraser Health.

**REJCT DELAY3** indicates that the sample has been rejected as it has been too long in transit. No results will be provided for this sample.

Sincerely,

Drinking Water Program
Fraser Health Authority
HPLand@fraserhealth.ca



February 1, 2022

Water System Operators

Re: Metals in Drinking Water - "Flush" Message in Annual Reports

Fraser Health has recently revised its metals at the tap "Flush" message and we are asking all water systems to please include the following health message with your next annual reports to your users.

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.

If you have any questions, please contact our Drinking Water Program at 604-870-7903,

Sincerely,

Drinking Water Program Fraser Health Authority HPLand@fraserhealth.ca

DRINKING WATER SYSTEM ANNUAL REPORT					
Reporting Period:	January 1 <sup>st</sup> to Decem	nber 31 <sup>st</sup> , 2021			
Water System	Deroche Water Syst	em			
Water System Owner	Fraser Valley Regional District				
Primary Contact Name (Operator or Manager)	Dave Roblin				
Phone Number (Operator or Manager)	604 702 5027				
E-mail (Operator or Manager)	droblin@fvrd.ca				
DESCRIBE YOUR WATER SUPPLY SYSTEM					
What is the Source(s) of Raw Water?					
☐ Shallow Well	☐ Surface Water	☐ Other			
If other, specify details:					
Does the Drinking Water System have Prim	ary Disinfection?	☐Yes	⊠No		
☐ Chlorination ☐ Ultraviolet Light	Ozone	☐ Other			
If other, specify details:					
Does the Drinking Water System have Seco	ndary Disinfection?	☐ Yes	⊠No		
☐ Chlorination ☐ Other					
If other, specify details:					
Does the Drinking Water System have Filtro	ntion?	☐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 (I	-				
Is your ERCP up to Date?	X Yes	□No			
How do you Inform the System Users of the		_	_		
☐ Hand Delivered ☐ Bulletin Board		Utility Bill Insert	☑ Website		
☑ Other call in					
Drinking Water System Annual Report					
How do you Inform the System Users of the	-				
☐ Hand Delivered ☐ Bulletin Board	□ Newspaper	Utility Bill Insert			
☑ Other (specify details)					

Revised June 2014

	MIT				
List the conditions of your Ope	rating Permit (Contact the DWO f	or a copy	if needed):		
Are you in compliance with yo	ur Operating Permit?	<b>X</b> Ye	S	□No	
BACTERIOLOGICAL TESTING AND DR	INKING WATER PROTECTION REGULATION	ON WATER	QUALITY STAN	DARDS	
How many bacteriological san	nples were collected during this re	porting p	eriod?	83	
What is the minimum required sampling frequency for this system? (#samples/month) 4					
Additional sampling details:					
Was the minimum required sampling frequency achieved? ☐X Yes ☐ No				□No	
Comments:					
Bacteriological summary attac	ched to this report?	∑ Ye	!S	□No	
If no, how do the users of the	system view the results?				
If no, how do the users of the s	system view the results?				
If no, how do the users of the s	system view the results?				
If no, how do the users of the s	•				
	•		Did this sy	stem meet standard?	
WATER QUALITY STANDARDS FOR F	POTABLE WATER	nl	Did this sy	stem meet standard?	
WATER QUALITY STANDARDS FOR F  Parameter: Escherichia coli	POTABLE WATER  Standard:				

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.

Date	TC/100ml	E.coli/100ml	Reason	Corrective Action
May 25		1	OIE	Ordered in error
09/07/20201	15		Warm water	Flushed system/disinfected
11/30/2021	2		Warm water	Flushed system
5/8/9/10/2021	2,1,1,2,4		Warm water	Flushed system/disinfected

CHEMICAL SAMI	PLING COMPLETED [	OURING THIS REPOR	TING PER	IOD		
Was any chen	nical sampling co	nducted during r	eporting	g period?	<b>X</b> Yes	□No
		nical samples con	ducted	1	-	les meet the Guidelines for
for this systen		ow —Nover			inking Water	
(date)	Don't Kn	ow Never		<b>∀</b> Yes		□No
	-	neet the Guidelind Onal sheets if nec	-	anadian Drinki	ng Water Qu	ality, record the results in
Parameter	Result	Corrective Action	on / Tre	atment / Com	ments	
ADDITIONAL TE	STING					
Does the syst	em have analyze	ers for continuous	monito	ring?	Yes	□x No
-	all boxes that ap	-				<del>_</del>
☐ Chlorine	☐ Turk	oidity [	] Other	(details)		
Are the result	ts available on re	equest?				
If any additionsheets if neces	_	mpling was cond	ucted, re	ecord results ir	n the table be	low; attach additional
Additional Te	sting & Reason fo	or Sampling	Correcti	ve Action Take	en	
WATER QUALIT	Y COMPLAINTS					
Were there a	ny water quality	complaints in thi	is report	ring	□ Voc	TV No.
period? (e.g.	taste, odour, col	our etc.)		l	Yes	☑ No
If yes, complete the table below; attach additional sheets if necessary.						
Date	Water Quality	Complaint	Corr	ective Action	/ Treatment	
	1					

OPERATIONAL PR	OBLEMS					
period? (e.g. in	y operational problen sufficient water supp uipment, line breaks,	ly, malfunction of	_	□Yes		□ No
If yes, complet	If yes, complete the table below; attach additional sheets if necessary.					
Incident Date	Type of Operational	Problem Corr	ective Actio	n Taken		
Major Upgrad	es/Repairs & Expenses					
	ny major upgrades/re g this reporting perio	, ,	costs	☐ X yes		□ No
If yes, complete the table below; attach additional sheets if necessary.						
Major Upgrade	es/Expenses	Details				
Improvements	required by DWO					
Additions/char	nges to system					
Purchase or in	stall new equipment					
Equipment rep	air or replacement					
Annual mainte	nance of system	Flushed system an	d annual val	lve and hy	drant maintena	nce/ cl 2 system
Specialist repo	rt					
Other						
1						
FUTURE IMPROV	ZEMENTS					
Are there any	plans for future impro	ovements?		<b>⅓</b> Yes		□No
If yes, comple	te the table below; at	tach additional she	ets if necess	sary.		
Future Upgrad	es or Improvements			E	stimated Date	of Completion
Loop in cooper road to north deroche road 2023						
			<u> </u>			
DATE COMPLETED: March 31, 2022 COMPLETED BY: D.Roblin						

# Sample Range Report

Fraser Health Authority

Facility Name: Date Range:

Deroche Water System Jan 1 2021 to Dec 31 2021

Operator

Fraser Valley Regional District

45950 Cheam Ave Chilliwack, BC V2P 1N6

Stn_   2-9-2021 9:45:00 AM	Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
Stn.  2-9-2021 9:45:00 AM					
2-9-2021 9:45:00 AM LT1 LT1 3-2-2021 9:45:00 AM LT1 LT1 3-23-2021 10:35:00 LT1 LT1 AM 5-4-2021 10:30:00 LT1 LT1 AM 6-8-2021 10:30:00 LT1 LT1 AM 6-29-2021 11:05:00 LT1 LT1 AM 7-20-2021 9:45:00 LT1 LT1 AM 8-10-2021 10:45:00 LT1 LT1 AM 8-31-2021 10:00:00 LT1 LT1 AM 9-21-2021 10:15:00 LT1 LT1 AM 10-12-2021 10:30:00 LT1 LT1 AM 11-2-2021 10:30:00 LT1 LT1 AM		p_			
3-2-2021 9:45:00 AM LT1 LT1 3-23-2021 10:35:00 LT1 LT1 AM 5-4-2021 10:30:00 LT1 LT1 AM 6-8-2021 10:30:00 LT1 LT1 AM 6-8-2021 11:05:00 LT1 LT1 AM 7-20-2021 9:45:00 LT1 LT1 AM 8-10-2021 10:45:00 LT1 LT1 AM 8-31-2021 10:00:00 LT1 LT1 AM 9-21-2021 10:15:00 LT1 LT1 AM 10-12-2021 10:30:00 LT1 LT1 AM 11-2-2021 10:30:00 LT1 LT1 AM 12-14-2021 9:45:00 LT1 LT1 AM	<u>Stn.</u>	2.0.2021.0.45.00.4M	1.74	LT1	
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11-2-2021 10:30:00 LT1 LT1 AM 12-14-2021 9:45:00 <u>LT1</u> <u>LT1</u> AM			211	2	
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		12-14-2021 9:45:00	<u>LT1</u>	LT1	
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		<b>Total Positive:</b>	0	0	0
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3-2-2021 9:30:00 AM LT1 LT1			LT1	LT1	
3-30-2021 11:15:00 LT1 LT1					
AM					

4-27-2021 9:45:00	LT1	LT1
AM		
5-25-2021 10:45:00	OIE	OIE
AM		
5-25-2021 10:45:00	LT1	LT1
AM		
6-15-2021 9:45:00	LT1	LT1
AM		
7-6-2021 9:05:00 AM	LT1	LT1
7-27-2021 10:10:00	LT1	LT1
AM		
8-17-2021 10:20:00	LT1	LT1
AM		
9-7-2021 9:15:00 AM	15	LT1
9-14-2021 9:30:00	LT1	LT1
AM		
10-19-2021 10:15:00	LT1	LT1
AM		
11-9-2021 10:00:00	LT1	LT1
AM		
11-30-2021 10:15:00	2	LT1
AM		
12-7-2021 9:30:00	<u>LT1</u>	<u>LT1</u>
AM		
Total Positive:	2	1

0

1 10854 North Deroche Rd, 10854 North Deroche Rd

1-5-2021 10:00:00	LT1	LT1
AM 1-26-2021 10:00:00	LT1	LT1
AM 2-16-2021 9:40:00	LT1	LT1
AM 3-9-2021 10:00:00	LT1	LT1
AM 4-20-2021 10:55:00	LT1	LT1
AM 5-18-2021 9:30:00	2	LT1
AM		
5-25-2021 10:30:00 AM	LT1	LT1
6-8-2021 11:00:00 AM	LT1	LT1
7-20-2021 9:25:00 AM	1	LT1
7-27-2021 10:30:00 AM	LT1	LT1
8-10-2021 10:30:00 AM	LT1	LT1
8-31-2021 9:45:00	1	LT1
AM 9-7-2021 9:45:00	2	LT1

AM			
9-21-2021 10:00:00 AM	LT1	LT1	
10-12-2021 11:00:00 AM	4	LT1	
11-2-2021 10:15:00 AM	LT1	LT1	
12-14-2021 9:30:00 AM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	5	0	0
2 10343 Cooper Rd. 10343 Cooper Rd			
1-12-2021 9:00:00 AM	LT1	LT1	
2-2-2021 10:40:00 AM	LT1	LT1	
2-23-2021 9:15:00 AM	LT1	LT1	
3-16-2021 9:30:00 AM	LT1	LT1	
3-30-2021 11:00:00 AM	LT1	LT1	
4-6-2021 10:15:00 AM	LT1	LT1	
4-13-2021 9:45:00 AM	LT1	LT1	
4-27-2021 10:15:00 AM	LT1	LT1	
5-11-2021 9:00:00 AM	LT1	LT1	
6-22-2021 10:45:00 AM	LT1	LT1	
7-6-2021 8:50:00 AM	LT1	LT1	
7-13-2021 9:45:00 AM	LT1	LT1	
8-3-2021 10:10:00 AM	LT1	LT1	
8-17-2021 9:55:00 AM	LT1	LT1	
8-24-2021 9:25:00 AM	LT1	LT1	
9-14-2021 10:00:00 AM	LT1	LT1	
9-28-2021 9:50:00 AM	LT1	LT1	
10-5-2021 10:00:00 AM	LT1	LT1	
10-26-2021 10:30:00 AM	LT1	LT1	
11-9-2021 10:30:00 AM	LT1	LT1	
11-23-2021 9:25:00 AM	LT1	LT1	

	11-30-2021 10:45 AM	:00	LT1	LT1	
	12-7-2021 9:45:0 AM	00	LT1	LT1	
	Total Positive:		0	0	0
7 Deroche Booster Pump, Reservoir					
	3-23-2021 10:30: AM	00	LT1	LT1	
	7-27-2021 10:20: AM	00	LT1	LT1	
	9-28-2021 10:15: AM	00	LT1	LT1	
	12-20-2021 8:35: AM	00	LT1	LT1	
·	Total Positive:		0	0	0
Result Values:	E - estimate	d	L - less than	G - g	reater than
Samples that conta Samples that conta Samples that conta Number of consecu contain total coliforr Number of samples coliform in last 30 d Total number of sam	in e. coli: in fecal coliform: itive samples that m: is that contain total ays:	7 1 0 1 0/0 74		9.46% 1.35% 0.00%	of total

#### Comments:

Environmental Health Officer Jan 27 2022

FOR FURTHER INFORMATION PLEASE CALL: David Fowler

## **Sample Range Report**

Fraser Health Authority

Total Coliform

Fecal Coliform

E. Coli

Facility Name: Date Range:

Sampling Site

Deroche Water System Jan 1 2021 to Dec 31 2021

Operator

Fraser Valley Regional District

45950 Cheam Ave Chilliwack, BC V2P 1N6

Date Collected

Sampling Site	Date Collected	Total Colliditi	E. Coli	recai Collionii
6 Well, 41651 Nor	<u>th</u>			
Deroche Rd	C 1 2021 0.55:00 AM	LT1	LT1	
	6-1-2021 9:55:00 AM 6-22-2021 11:05:00	LT1	LT1	
	AM			
	7-13-2021 10:10:00 AM	LT1	LT1	
	8-3-2021 10:25:00	LT1	LT1	
	AM	1.74	1.74	
	8-24-2021 9:45:00 AM	LT1	LT1	
	10-5-2021 9:30:00 AM	LT1	LT1	
	10-26-2021 10:10:00	LT1	LT1	
	AM	L.,	211	
	11-23-2021 9:50:00 AM	LT1	LT1	
	12-7-2021 10:00:00	LT1	LT1	
	AM	•		•
	Total Positive:	0	0	0
Result Values:	E - estimated	L - less than	G	greater than
Samples that cont				% of total
Samples that cont				% of total
	tain fecal coliform: 0		0.00	% of total
	cutive samples that 0			
contain total colifo	1			
	es that contain total 0/0			
coliform in last 30				
Total number of s	amples: 9			

#### Comments:

Environmental Health Officer Jan 27 2022

FOR FURTHER INFORMATION PLEASE CALL: David Fowler



Element #104, 19575-55 A Ave. Surrey, British Columbia V3S 8P8, Canada T: +1 (604) 514-3322 F: +1 (604) 514-3323

E: info.vancouver@element.com

W: www.element.com

**Analytical Report** 

Bill To: Fraser Valley Regional District

1 - 45950 Cheam Ave. Chilliwack, BC, Canada

V2P 1N6

Attn: Accounts Payable

Sampled By: J. Vugteveen Company: FVRD

Project ID: Chem/Phys
Project Name: Northside

Project Location:

LSD: P.O.:

Proj. Acct. code:

Lot ID: 1576666

Control Number:

Date Received: Jun 7, 2022
Date Reported: Jun 13, 2022
Report Number: 2755677

Reference Number

Sample Date

1576666-3 June 07, 2022 10:00

Sample Time Sample Location

Sample Description

Sample Matrix

Cooper Rd. / Deroche WS

**Drinking Water** 

		Sample Matrix	Dilliking water	·		
Analyte		Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	0.004	0.001	0.1 OG; 2.9 MAC	Below OG
Antimony	Extractable	mg/L	< 0.00002	0.00002	0.006	Below MAC
Arsenic	Extractable	mg/L	0.0002	0.0001	0.010	Below MAC
Barium	Extractable	mg/L	0.0036	0.0001	2.0	Below MAC
Boron	Extractable	mg/L	0.008	0.002	5	Below MAC
Cadmium	Extractable	mg/L	< 0.00001	0.00001	0.007	Below MAC
Chromium	Extractable	mg/L	< 0.00005	0.00005	0.05	Below MAC
Copper	Extractable	mg/L	0.0049	0.0005	1 AO; 2 MAC	Below AO
Lead	Extractable	mg/L	0.00005	0.00001	0.005	Below MAC
Selenium	Extractable	mg/L	< 0.0002	0.0002	0.05	Below MAC
Strontium	Extractable	mg/L	0.013	0.0001	7.0	Below MAC
Uranium	Extractable	mg/L	< 0.00001	0.00001	0.02	Below MAC
Vanadium	Extractable	mg/L	0.00033	0.00005		
Zinc	Extractable	mg/L	0.0022	0.0005	5.0	Below AO
Physical and Aggregate	e Properties	-				
Colour	True	Colour units	<5	5		
Turbidity		NTU	<0.10	0.1	0.1/0.3/1.0 OG	
Routine Water						
pH - Holding Time			Exceeded			
pH	at 25 °C		6.61	0.01	7.0-10.5	Below Range
Electrical Conductivity		μS/cm at 25 °C	39	1		
Calcium	Extractable	mg/L	3.5	0.01		
Iron	Extractable	mg/L	0.009	0.004	0.3	Below AO
Magnesium	Extractable	mg/L	0.66	0.02		
Manganese	Extractable	mg/L	<0.001	0.001	0.02 AO; 0.12 MAC	Below AO
Potassium	Extractable	mg/L	0.30	0.04		
Silicon	Extractable	mg/L	3.9	0.005		
Sodium	Extractable	mg/L	2.0	0.1	200	Below AO
T-Alkalinity	as CaCO3	mg/L	10	5		
Chloride	Dissolved	mg/L	1.73	0.05	250	Below AO
Fluoride	Dissolved	mg/L	<0.01	0.01	1.5	Below MAC
Nitrate - N	Dissolved	mg/L	0.17	0.01	10	Below MAC
Nitrite - N	Dissolved	mg/L	<0.01	0.01	1	Below MAC
Sulfate (SO4)	Dissolved	mg/L	2.9	0.1	500	Below AO
Hardness	as CaCO3 (extractable)	mg/L	11.3	1		
Total Dissolved Solids	Extractable	mg/L	29	1	500	Below AO