



FEB U.8 2024 FRASER VALLEY REGIONAL DISTRICT

DEPARTMENT David

February 1, 2024

Dear: Water System Operator

Re: Annual Reporting Requirements for Permitted Water Systems

Please find enclosed a copy of the 2023 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 2023 calendar year. As per the Drinking Water Protection Act the report is required to be made available to all users by June 30th 2024.

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

Fraser Health Authority Health Protection Suite 400 2777 Gladwin Rd Abbotsford BC V2T 4V1 Canada Tel (604) 870-7900 Fax (604) 852-1558 www.fraserhealth.ca



February 1, 2024

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

Fraser Health Authority Health Protection Suite 400 2777 Gladwin Rd Abbotsford BC V2T 4V1 Canada Tel (604) 870-7900 Fax (604) 852-1558 www.fraserhealth.ca

PAGELOFA DRINKING WATER SYSTEM ANNUAL REPORT DRINKING WATTER SYSTEM ANNUAL REPORT January 1st to December 31st, 2023 (year) Reporting Period: Water System LAKE ERROCK WATER SYSTEM 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? D Surface Water D Other O Shallow Well X Deep Well If other, specify details: XNO Does the Drinking Water System have Primary Disinfection? Yes D Chlorination D Ultraviolet Light D Ozone D Other If other, specify details: Does the Drinking Water System have Secondary Disinfection? X_{No} □ Yes D Chlorination Ot her If other, specify details: XNo Does the Drinking Water System have Filtration? 2 Yes Check all boxes that apply D Cartridge Filter(s) D Carbon Filter D Sand Filtration D Reverse Osmosis D Other If other, specify details: PUBLIC REPORTING Emergency Response & Contingency Plan (ERCP) Is your ERCP up to Date? X Yes How do you Inform the System Users of the ERCP? D Hand Delivered D Bulletin Board D Newspaper 0 Utility Bill Insert X Website D Other (specify details) **Drinking Water System Annual Report** How do you Inform the System Users of the Annual Report? 0 Hand Delivered O Bulletin Board D Newspaper 0 Utility Bill Insert X Website D Other (specify details)

DRINKING WATER SYSTEM ANNUAL REPORT

XYes

🗌 No

TOIMPLIANCE WITH OPERATING PER	MIT				
List the conditions that have b	been placed on your Operating Permit {if you	 u hove conditio	ons. these will	be stated on yo	ur permit):
Are you in compliance with the	ne conditions fisted an your Operating Pe	rmit?	X Yes	D No	ON/A
	INKING WARER PROTE COLON REGULATION WAT	FR OUAUTY	STANDARI)S	
	mples were collected during this reporting		7855795259		106
	mples were conecied during this reporting ed sampling frequency for this system? (4		(month)		12
Additional sampling details:	eu sampling frequency for this system? (1	+sumples/	monin)		. 2
Was the minimum required s	ampling frequency achieved?	Yes		ΠNο	
Comm ents :					
Bacteriological summary at	ttached to this report?	Yes		XNO	
If no, how do the users of the	system view the results? Call				
in for report					
WAMER QUALITY STANDARDS FOR F	PORAELE WATER		r feith i shi i Na Shai na S		
			•	+ - + ·	Chardo
Parameter:	Standard:	Did	this syste	em meet sta	andard?
Escherichia coli (for all <u>samples</u>)	No detectable Escherichia coli per 100ml	— X Y	es		10
Total Coliform Bacteria		V			
(if only 1 sample collected in a 30	No detectable total coliform bacteria per 100m	1 X Y	es	No	
fotal Coliform Bacteria	No more than 10% of samples contain total				

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.

coliform bacteria, **and** No sample has more than 10 total coliform bacteria per 100ml

Date	TC/l00ml	E.coli/l00ml	Reason	Corrective Action	
1/17/2023	1		Sampler error	Disinfected and flushed	
1/24/2023	3		Hot weather	Disinfected and flushed	
7/4/2022	1		Sampler error	Disinfected and flushed	
8/15/2023	3.1		Hot weather	Disinfected and flushed	

30 day period)

(if more than 1 sample collected in a

DRINKING WATER SYSTEM ANNUAL REPORT

XNo

REVIICAL SAMPL	ING COMPLETED DURING T	KIS REPORTING PERIOD		
Was any cher	mical sampling conduct	ted during reporting	period? XYes	ONo ONo
If no, when were the last chemical samples conducted for this system?			If yes, did all water so Canadian Drinking W	amples meet the Guidelines for VaterQuality?
(date)	$\mathrm{D}Don$ 't Know	0 Never	XYes	No

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.

Parameter	Result	Corrective Action /Treatment/ Comments

ADDIMONAL TESTING

____Yes

Does the system have analyzers for continuous monitoring?

If yes, check all boxes that apply:

Chlorine O Turbidity

0 Other {details)

Are the results available on request?

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	T Yes	XNO
period?(e.g. taste, odour, colour etc.)		

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

Water Quality Complaint	Corrective Action / Treatment

		C	RINKINGWA	
		113. 加合中部部合114-13		
PERAMONAL PROBLEMS				
Were there any operational proble period? (e.g. insufficient water sup disinfection equipment, line breaks	ply, malfuncti	on of	☐ Yes	XNo
If yes, complete the table below; atta	ich additional s	sheets if neces	ssary.	
ncident Date Type of Operational F	Problem	Corrective	A tionTaken	
		-		
AVOR UPGRADES/REPARS & EXPENSES		是是非常的		
Were there any major upgrades/rep	-	ajor costs	□Yes	□ No
incurred during thisreporting period	d?			
If yes, complete the table below; atta	ch additional s	heets if neces	sary.	
MajorUpgrades/Expenses	Details			
mprovements required by DWO				
Additions/changes to system				
Purchase or install new equipment				
Equipment repair or replacement				
Annual maintenance of system	Flushing of sys	stem disinfect	reservoir	
Specialist report				
Other				
UTURE IMPROVEMENTS				
Are there any plans for future impro	vements?		Yes	Χ̈́□́
fyes, complete the table below; atta	ch additional s	heets if neces	sary.	
Future Upgrades or Improvements				Estimated Date of Completion
			•	

Sample Range Report

Fraser Health Authority

Facility Name:	Lake Errock Water System
Date Range:	Jan 1 2023 to Dec 31 2023
Operator	Fraser Valley Regional District 45950 Cheam Ave Chilliwack, BC V2P 1N6

đ

9

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
LE 1 44056 Errock PI Rd , Lougheed				
Hiwy & Harrison Bay	-			
Rd	4 47 0000 11.15.00	4	LT1	
	1-17-2023 11:15:00 AM	1	LII	
	1-24-2023 8:45:00	3	LT1	
	AM 1-31-2023 12:00:00	LT1	LT1	
	PM	LII	LII	
	2-14-2023 11:00:00 AM	LT1	LT1	
	3-14-2023 11:15:00	LT1	LT1	
	AM 5-9-2023 10:15:00	LT1	LT1	
	AM			
	5-30-2023 10:45:00 AM	LT1	LT1	
	6-6-2023 10:30:00 AM	LT1	LT1	
	7-4-2023 10:00:00	1	LT1	
	AM 8-1-2023 10:45:00	LT1	LT1	
	8-1-2023 10.45.00 AM			
	8-17-2023	LT1	LT1	
	8-29-2023 10:00:00 AM	LT1	LT1	
	9-26-2023 9:30:00	LT1	LT1	
	AM			
	10-24-2023 7:55:00 AM	LT1	LT1	
	11-21-2023 8:00:00 AM	LT1	LT1	
	12-19-2023 11:00:00	<u>LT1</u>	<u>LT1</u>	
	AM Total Positive:	3	0	0

LE 2 43721 Loch Rd. Lougheed Hwy & Harrison Bay Rd

	1-24-2023 8:30:00			
		LT1	LT1	
	AM 2-21-2023 11:00:00	LT1	LT1	
	AM 3-21-2023 11:15:00	LT1	LT1	
	AM 4-18-2023 10:15:00 AM	LT1	LT1	
	5-16-2023 12:00:00 PM	LT1	LT1	
	6-13-2023 10:00:00 AM	LT1	LT1	
	7-11-2023 10:30:00 AM	LT1	LT1	
		1 7 4	1 1 4	
	8-8-2023 9:15:00 AM	LT1	LT1	
	9-5-2023 10:15:00	LT1	LT1	
	AM			
	10-3-2023 10:50:00 AM	LT1	LT1	
	10-31-2023 10:00:00 AM	LT1	LT1	
,	11-28-2023 10:30:00 AM	<u>LT1</u>	<u>LT1</u>	
·	Total Positive:	0	0	0
AUDIT LE 1 44056 Errock PI Rd, Lougheed Hwy and Harrison Bay Rd				
	5-17-2023 11:45:00 AM	<u>LT1</u>	<u>LT1</u>	
	Total Positive:	0	0	0
Lake Errock Reservoir, Loughee Hwy & Harrison Bay				
Reservoir, Loughee		LT1	LT1	
Reservoir, Loughee	/ 1-3-2023 11:15:00	LT1 LT1	LT1 LT1	
Reservoir, Loughee	2 1-3-2023 11:15:00 AM 2-28-2023 11:00:00			
Reservoir, Loughee	2 1-3-2023 11:15:00 AM 2-28-2023 11:00:00 AM 3-28-2023 11:00:00	LT1	LT1	
Reservoir, Loughee	4 1-3-2023 11:15:00 AM 2-28-2023 11:00:00 AM 3-28-2023 11:00:00 AM 4-25-2023 9:50:00	LT1 LT1	LT1 LT1 LT1 LT1	
Reservoir, Loughee	2-28-2023 11:15:00 AM 2-28-2023 11:00:00 AM 3-28-2023 11:00:00 AM 4-25-2023 9:50:00 AM 5-23-2023 10:45:00 AM 6-20-2023 10:15:00 AM	LT1 LT1 LT1 LT1 LT1	LT1 LT1 LT1 LT1 LT1	
Reservoir, Loughee	2-28-2023 11:15:00 AM 2-28-2023 11:00:00 AM 3-28-2023 11:00:00 AM 4-25-2023 9:50:00 AM 5-23-2023 10:45:00 AM 6-20-2023 10:15:00	LT1 LT1 LT1 LT1 LT1 LT1	LT1 LT1 LT1 LT1 LT1 LT1	
Reservoir, Loughee	1-3-2023 11:15:00 AM 2-28-2023 11:00:00 AM 3-28-2023 11:00:00 AM 4-25-2023 9:50:00 AM 5-23-2023 10:45:00 AM 6-20-2023 10:15:00 AM 7-18-2023 9:30:00	LT1 LT1 LT1 LT1 LT1	LT1 LT1 LT1 LT1 LT1	

-

•

	8-22-2023 10:45:00	LT1	LT1
	AM 9-12-2023 11:00:00	LT1	LT1
	AM 10-10-2023 10:45:00	LT1	LT1
	AM 11-7-2023 11:45:00	LT1	LT1
	AM 12-5-2023 10:15:00	<u>LT1</u>	<u>LT1</u>
	AM Total Positive:	1	1
<u>Well,</u>	1-10-2023 11:00:00	LT1	LT1
	AM 2-7-2023 10:30:00 AM	LT1	LT1
	AM 3-7-2023 11:10:00 AM	LT1	LT1
	4-4-2023 10:45:00 AM	LT1	LT1
	4-11-2023 8:30:00 AM	LT1	LT1
	5-2-2023 9:45:00 AM	LT1 LT1	LT1 LT1
	6-27-2023 10:15:00 AM		LT1
	7-25-2023 11:00:00 AM	LT1	
	8-17-2023 8-22-2023 11:30:00	LT1 LT1	LT1 LT1
	AM 9-19-2023 10:45:00	LT1	LT1
	AM 10-17-2023 10:00:00	LT1	LT1
	AM 11-14-2023 10:30:00	LT1	LT1
	AM 12-12-2023 10:45:00	<u>LT1</u>	<u>LT1</u>
	AM Total Positive:	0	0
<u>LE 5 45155 Bayvi</u> Rd, 45155 Bayvie			
Rd	1-3-2023 11:30:00	LT1	LT1
	AM 1-17-2023 11:00:00	LT1	LT1
	AM 1-31-2023 11:30:00	LT1	LT1
	AM 2-14-2023 11:30:00	LT1	LT1
	AM 2-28-2023 11:15:00	LT1	LT1

	AM 3-14-2023 11:30:00	LT1	LT1
	AM 3-28-2023 11:30:00	LT1	LT1
	AM 4-25-2023 10:15:00	LT1	LT1
	AM 5-9-2023 10:10:00 AM	LT1	LT1
	AM 5-23-2023 11:00:00 AM	LT1	LT1
	5-30-2023 10:30:00 AM	LT1	LT1
	6-20-2023 10:30:00 AM	LT1	LT1
	7-4-2023 9:45:00 AM	LT1	LT1
	7-18-2023 10:00:00	LT1	LT1
	AM	2	
	8-1-2023 11:00:00 AM	LT1	LT1
	8-15-2023 9:15:00 AM	LT1	LT1
	8-29-2023 10:15:00 AM	LT1	LT1
	9-12-2023 11:30:00 AM	LT1	LT1
	9-26-2023 9:45:00 AM	LT1	LT1
	10-10-2023 11:05:00 AM	LT1	LT1
	10-24-2023 8:10:00 AM	LT1	LT1
	11-7-2023 12:15:00 PM	LT1 GTR200	LT1 GTR200
	11-21-2023 9:00:00 AM	LT1	LT1
	12-5-2023 10:30:00 AM	LT1	LT1
	12-19-2023 11:30:00 AM	<u>LT1</u>	<u>LT1</u>
	Total Positive:	0	0
LE 6 44281 Bayview Rd, 44281 Bayview			
<u>Rd</u>	1-10-2023 11:30:00 AM	LT1	LT1
	AM 1-24-2023 9:00:00 AM	LT1	LT1
	2-7-2023 10:00:00 AM	LT1	LT1
	2-21-2023 11:32:00 AM	LT1	LT1
	2 7 2022 10:45:00	1 11	I T 1

LT1

LT1

P. 1

3-7-2023 10:45:00

.

0

AM 3-21-2023 11:30:00 LT1 LT1 AM	
AM	
4-4-2023 10:30:00 LT1 LT1	
AM	
4-18-2023 10:30:00 LT1 LT1	
AM	
5-2-2023 9:30:00 AM LT1 LT1	
5-16-2023 11:45:00 LT1 LT1	
AM 6-13-2023 10:45:00 LT1 LT1	
AM 6-27-2023 10:00:00 LT1 LT1	
6-27-2023 10:00:00 LT1 LT1 AM	
7-11-2023 10:45:00 LT1 LT1	
AM	
7-25-2023 10:40:00 LT1 LT1	
AM	
8-8-2023 9:30:00 AM LT1 LT1	
8-22-2023 11:15:00 LT1 LT1	
AM	
9-5-2023 10:45:00 LT1 LT1	
AM	
9-19-2023 10:30:00 LT1 LT1	
AM	
10-3-2023 11:15:00 LT1 LT1	
AM	
10-17-2023 9:45:00 LT1 LT1	
10-31-2023 10:15:00 LT1 LT1	
AM 11-14-2023 9:50:00 LT1 LT1	
AM 11-28-2023 10:45:00 LT1 LT1	
AM	
12-12-2023 10:15:00 LT1 LT1	
AM	
Total Positive: 0 0 0	

Result Values: E - estimate	d	L - less than	G - greater than	
Samples that contain total coliform: Samples that contain e. coli: Samples that contain fecal coliform: Number of consecutive samples that contain total coliform: Number of samples that contain total coliform in last 30 days: Total number of samples:	4 1 0 1 0/0 106		3.77% of total 0.94% of total 0.00% of total	

Comments:

् ⁹ र Environmental Health Officer Jan 25 2024

5

4

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

Page 4 of 13

Analytical Re	port					
Bill To:	Fraser Valley Regional Distr	ict Project ID:			Lot ID: 17240	49
	1 - 45950 Cheam Ave.	Project Name:	Chem/Phys	Contro	I Number:	
	Chilliwack, BC, Canada	Project Location:			Received: Apr 9, 20	24
	V2P 1N6	LSD:			Reported: Apr 15, 2	
Attn:	Accounts Payable	P.O.:			t Number: 2991142	
	Bikafi	Proj. Acct. code:		•	port Type: Final Rep	
	FVRD					
. ,		Reference Number	1724049-4			
		Sample Date	April 09, 2024			
		Sample Time	NA			
		Sample Location	INA			
		Sample Description	Lako Errock W	S / I E1 44056 / 1 6 %	`	
		Sample Matrix	Drinking Water	ck WS / LE1 44056 / 1.6 °C		
			Drinking Water	Nominal Detection	Guideline	Guideline
Analyte		Units	Result	Limit	Limit	Comments
Metals Extractab			0.005	0.004		
Aluminum	Extractable	mg/L	0.005	0.001	0.1 OG; 2.9 MAC	Below OG
Antimony	Extractable	mg/L	0.00003	0.00002	0.006	Below MAC
Arsenic	Extractable	mg/L	< 0.0001	0.0001	0.010	Below MAC
Barium	Extractable	mg/L	0.0007	0.0001	2.0	Below MAC
Boron	Extractable	mg/L	<0.002	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	0.0024	0.0005	1 AO; 2 MAC	Below AO
Lead	Extractable	mg/L	0.00018	0.00001	0.005	Below MAC
Selenium	Extractable	mg/L	<0.0002	0.0002	0.05	Below MAC
Strontium	Extractable	mg/L	0.0077	0.0001	7.0	Below MAC
Uranium	Extractable	mg/L	<0.00001	0.00001	0.02	Below MAC
Vanadium	Extractable	mg/L	0.00034	0.00005		
Zinc	Extractable	mg/L	0.0011	0.0005	5.0	Below AO
Physical and Ag	gregate Properties					
Colour	True	Colour units	<5	5		
Turbidity		NTU	<0.10	0.1	0.1/0.3/1.0 OG	
Routine Water						
рН			6.56	0.01	7.0-10.5	Below Range
pH - Holding Tim	ne		Exceeded			
Temp. of observe	ed pH	°C	21.4			
Electrical Condu		µS/cm	20	1		
Calcium	Extractable	mg/L	2.2	0.01		
Iron	Extractable	mg/L	0.005	0.004	0.3	Below AO
Magnesium	Extractable	mg/L	0.26	0.02		
Manganese	Extractable	mg/L	<0.001	0.001	0.02 AO; 0.12 MAC	Below AO
Potassium	Extractable	mg/L	0.10	0.04		
Silicon	Extractable	mg/L	3.2	0.005		
Sodium	Extractable	mg/L	0.9	0.1	200	Below AO
T-Alkalinity	as CaCO3	mg/L	7	5		
Chloride	Dissolved	mg/L	0.59	0.05	250	Below AO
Fluoride	Dissolved	mg/L	<0.01	0.01	1.5	Below MAC
Nitrate - N	Dissolved	mg/L	0.09	0.01	10	Below MAC
Nitrite - N	Dissolved	mg/L	<0.01	0.01	1	Below MAC
Sulfate (SO4)	Dissolved	mg/L	1.0	0.1	500	Below AO
	as CaCO3	mg/L	6.7	1		-
Hardness	(extractable)					

Terms and Conditions: https://www.element.com/terms/terms-and-conditions