



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:** Area D Integrated Water System Water System Fraser Valley Regional District Water System Owner Dave Roblin Primary Contact Name (Operator or Manager) 604-798-5426 Phone Number (Operator or Manager) E-mail (Operator or Manager) drobli<u>n@fvrd.ca</u> DESCRIBE YOUR WATER SUPPLY SYSTEM. What is the Source(s) of Raw Water? O Shallow Well D Surface Water 0_X Deep Well 0 Other (f other, specify details: X Yes ΠNο Does the Drinking Water System have Primary Disinfection? 0 Other **D**xChlorination D Ultraviolet Light D Ozone If other, specify details: Does the Drinking Water System have Secondary Disinfection? 🗌 Yes XNo Other D Chlorination If other, specify details: 2 Yes XNo Does the Drinking Water System have Filtration? 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) X Yes Is your ERCP up to Date? No No How do you Inform the System Users of the ERCP? 0 Utility Bill Insert D Website D Hand Delivered D Bulletin Board D Newspaper х D Other (specify details) **Drinking Water System Annual Report** How do you Inform the System Users of the Annual Report? D Hand Delivered D Bulletin Board D Newspaper D Website 0 Utility Bill Insert D Other (specify details)

出版にとしたら DRINKING WATER SYSTEM ANNUAL REPORT TOIMPUIAINCE WITH OPERATURE PURMIT List the conditions that have been placed on your Operating Permit sif you have conditions these will be stated on vour permit): D Yes D No *Are you in compliance with the conditions fisted an your Operating Permit?* ON/A BACTERIOLOGICAL TESTING AND DRINKING WATER PROTECTION REGULATION WATER QUALITY STANDARDS 163 How many bacteriological samples were collected during this reporting period? 12 What is the minimum required sampling frequency for this system? (#samples/month) Additional sampling details: Was the minimum required sampling frequency achieved? T Yes Νο Comm ents : ^x⊡ _{Yes} Bacteriological summary attached to this report? If no, how do the users of the system view the results? WAMER QUALITY STANDARDS FOR POTABLE WATER at standard) Parameter: Standard: Did this system meet standard? Escherichia coli Yes 🗆 No No detectable Escherichia coli per 100ml (for all samples) Total (Samples) Bacteria х (if only 1 sample collected in a 30 ☐ Yes 0No No detectable total coliform bacteria per 100ml day eriad) Total Coliform Bacteria No more than 10% of samples contain total Ye s coliform bacteria, and No sample has more than (if more than 1 sample collected in a 10 total coliform bacteria per 100ml 30 day period) If the system did not meet any of above Drinking Water Protection Regulation standards, record the results in

Date
TC/l00ml
E.coli/l00ml
Reason
Corrective Action

Image: Construction
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the table below; attach additional sheets if necessary.

DRINKING WATER SYSTEM ANNUAL REPORT

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Was any ch	emical sampling conduc	ted during reporting	period?	Yes	0No
If no, when	were the last chemical s	amples conducted	If yes, di	d all water sai	nples meet the Guidelines
for this syst	tem?			n Drinking Wat	1
(date)	D Don't Know	0 Never	X Ves	C	No

the table below; attach additional sheets if necessary.

Parameter	Result	Corrective Action /Treatment/ Comments

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Does the system	have analyzers for cont	nuous moni	toring?	Yes	ΠNο	
If yes, check all	boxes that apply:					
Chlorine	O Turbidity	0 Oth	er {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

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WAVERO	同於国际沿行	1911/11/11/1	LUNIDE
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Were there any water quality complaints in this reporting	Tes Yes	ΠNο
period? (e.g. taste, odour, colour etc.)		

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

Date	Water Quality Complaint	Corrective Action / Treatment

		DRINKING WAT	ER SYSTEM ANNUAL REPOR	t fil
PERATHONIAL PROBLEMS	的复数形式工作业工作			
<i>Were there any operational proble</i> <i>period? (e.g. insufficient water sup</i>		ting Yes	× No	
disinfection equipment, line breaks				
If yes, complete the table below; atta	ach additional sheets i	f necessary.		
Incident Date Type of Operational	Problem Corre	ective A tionTaken		
NAYOR UPGRADES/REPAIRS & EXPENSES			2.何望的感觉是可能。	
Were there any major upgrades/rep	pairs or any major co	<i>ists</i> Yes	X No	
incurred during this reporting period	d?			
If yes, complete the table below; atta	ch additional sheets i	fnecessary.		
MajorUpgrades/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				
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UTURE IMPROVEMENTS				使的财富
Are there any plans for future impro	ovements?	Yes	L No	
If yes, complete the table below; att	ach additional sheet	s if necessary.		
Future Upgrades or Improvements			Estimated Date of Completic	on
DATE COMPLETED: July 9 2024		COMPLETED BY: Dave	Roblin	

Sample Range Report

Fraser Health Authority

Facility Name: Date Range:		Area D Integrated Water System Jan 1 2023 to Dec 31 2023				
Operator	Fraser Valley Regional D 1 45950 Cheam Ave Chilliwack, BC V2P 1N6	istrict				
Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform		
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	AM 3-7-2023 12:00:00	LT1	LT1			
	PM 3-21-2023 9:00:00	LT1	LT1			
	AM 4-4-2023 12:30:00	LT1	LT1			
	PM 4-18-2023 8:00:00	LT1	LT1			
	AM 5-2-2023 10:50:00	LT1	LT1			
	AM 5-16-2023 8:40:00	LT1	LT1			
	AM 5-30-2023 10:30:00	LT1	LT1			
	AM 6-13-2023 8:00:00	LT1	LT1			
	AM 6-27-2023 11:40:00	LT1	LT1			
	AM 7-11-2023 12:50:00	LT1	LT1			
	PM 7-25-2023 12:00:00	LT1	LT1			
	PM 8-8-2023 10:45:00	LT1	LT1			
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	AM 10-31-2023 8:30:00	LT1	LT1
	AM 11-14-2023 8:00:00	LT1	LT1
	AM 11-28-2023 7:45:00	LT1	LT1
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	4-25-2023 7:30:00 AM	LT1	LT1
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	5-23-2023 9:00:00 AM	LT1	LT1
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	9-12-2023 7:15:00 AM	LT1	LT1
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	5-16-2023 7:30:00 AM	LT1	LT1
	6-6-2023 12:00:00 PM	LT1	LT1
	6-27-2023 11:30:00 AM	LT1	LT1
	7-18-2023 7:30:00 AM	LT1	LT1
	8-8-2023 10:15:00 AM	LT1	LT1
	8-29-2023 7:45:00 AM	LT1	LT1
	9-19-2023 11:50:00 AM	LT1	LT1
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	10-31-2023 7:30:00 AM	LT1	LT1
	11-21-2023 7:30:00 AM	LT1	LT1
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	AM 6-6-2023 12:15:00	LT1	LT1
	PM 6-27-2023 11:15:00	LT1	LT1
	AM 7-18-2023 8:00:00	LT1	LT1
	AM 8-8-2023 10:30:00	LT1	LT1
	AM 8-29-2023 7:30:00	LT1	LT1
	AM 9-19-2023 12:05:00	LT1	LT1
	PM 10-31-2023 8:00:00	LT1	LT1
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<u>12 Reservoir,</u>	1-3-2023 12:45:00 PM 1-24-2023 11:00:00 AM 2-14-2023 8:00:00 AM 3-7-2023 11:00:00 AM 3-28-2023 7:15:00 AM 4-18-2023 7:15:00 AM 5-9-2023 7:15:00 AM	LT1 LT1 LT1 LT1 LT1 LT1 LT1 LT1	LT1 LT1 LT1 LT1 LT1 LT1 LT1
<u>12 Reservoir,</u>	1-3-2023 12:45:00 PM 1-24-2023 11:00:00 AM 2-14-2023 8:00:00 AM 3-7-2023 11:00:00 AM 3-28-2023 7:15:00 AM 4-18-2023 7:15:00 AM 5-9-2023 7:15:00 AM 5-30-2023 10:00:00 AM	LT1 LT1 LT1 LT1 LT1 LT1 LT1 LT1	LT1 LT1 LT1 LT1 LT1 LT1 LT1 LT1
<u>12 Reservoir,</u>	1-3-2023 12:45:00 PM 1-24-2023 11:00:00 AM 2-14-2023 8:00:00 AM 3-7-2023 11:00:00 AM 3-28-2023 7:15:00 AM 4-18-2023 7:15:00 AM 5-9-2023 7:15:00 AM 5-30-2023 10:00:00	LT1 LT1 LT1 LT1 LT1 LT1 LT1 LT1	LT1 LT1 LT1 LT1 LT1 LT1 LT1
<u>12 Reservoir,</u>	1-3-2023 12:45:00 PM 1-24-2023 11:00:00 AM 2-14-2023 8:00:00 AM 3-7-2023 11:00:00 AM 3-28-2023 7:15:00 AM 4-18-2023 7:15:00 AM 5-9-2023 7:15:00 AM 5-9-2023 10:00:00 AM 6-20-2023 11:50:00	LT1 LT1 LT1 LT1 LT1 LT1 LT1 LT1	LT1 LT1 LT1 LT1 LT1 LT1 LT1 LT1
<u>12 Reservoir,</u>	1-3-2023 12:45:00 PM 1-24-2023 11:00:00 AM 2-14-2023 8:00:00 AM 3-7-2023 11:00:00 AM 3-28-2023 7:15:00 AM 4-18-2023 7:15:00 AM 5-9-2023 7:15:00 AM 5-30-2023 10:00:00 AM 6-20-2023 11:50:00 AM 7-11-2023 12:40:00 PM 8-1-2023 12:15:00	LT1 LT1 LT1 LT1 LT1 LT1 LT1 LT1 LT1	LT1 LT1 LT1 LT1 LT1 LT1 LT1 LT1 LT1
<u>12 Reservoir.</u>	1-3-2023 12:45:00 PM 1-24-2023 11:00:00 AM 2-14-2023 8:00:00 AM 3-7-2023 11:00:00 AM 3-28-2023 7:15:00 AM 4-18-2023 7:15:00 AM 5-9-2023 7:15:00 AM 5-30-2023 10:00:00 AM 6-20-2023 11:50:00 AM 7-11-2023 12:40:00 PM	LT1 LT1 LT1 LT1 LT1 LT1 LT1 LT1 LT1 LT1	LT1 LT1 LT1 LT1 LT1 LT1 LT1 LT1 LT1 LT1

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Result Values:	E - estimated	L - less than		of total
	Total Positive:	0	0	0
	12-12-2023 7:45:00 AM	<u>LT1</u>	<u>LT1</u>	
	11-21-2023 8:15:00 AM	LT1	LT1	
	10-31-2023 9:00:00 AM	LT1	LT1	
	10-10-2023 9:00:00 AM	LT1	LT1	
	9-19-2023 12:30:00 PM	LT1	LT1	
	8-29-2023 8:15:00 AM	LT1	LT1	
	8-8-2023 11:00:00 AM	LT1	LT1	
	7-18-2023 8:30:00 AM	LT1		
	6-27-2023 11:45:00 AM		LT1	
	PM	LT1	LT1	
	AM 6-6-2023 12:30:00	LT1	LT1	
	AM 5-16-2023 8:15:00	LT1	LT1	
	PM 4-11-2023 9:15:00	LT1	LT1	
	PM 4-4-2023 12:15:00	LT1	LT1	
	AM 3-14-2023 12:00:00	LT1	LT1	
	AM 2-21-2023 8:45:00	LT1	LT1	
	AM 1-31-2023 8:45:00	LT1	LT1	
<u>13 Caryks Road</u> Pumphouse, Popkum	1-10-2023 8:20:00	LT1	LT1	
	Total Positive:	0	U	v
	12-5-2023 12:00:00 PM	<u>LT1</u>	<u>LT1</u> 0	0
	11-14-2023 7:15:00 AM	LT1	LT1	
	10-24-2023 7:00:00 AM	LT1	LT1	
	10-3-2023 8:30:00 AM	LT1	LT1	
	AM			
	9-12-2023 7:00:00	LT1	LT1	

5.4

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Samples that contain fecal coliform: Number of consecutive samples that		0.00% of total
contain total coliform: Number of samples that contain total	0/0	
coliform in last 30 days:		
Total number of samples:	163	

Comments:

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Environmental Health Officer Jan 24 2024

FOR FURTHER INFORMATION PLEASE CALL: Jeniene Lutz (604) 870-7900

Sample Range Report

Fraser Health Authority

Facility Name:Area D Integrated Water SystemDate Range:Jan 1 2023 to Dec 31 2023

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
<u>10 Well 1</u> Pumphouse, 10050 Sussex Drive	<u>-</u>			
Oussex Drive	1-17-2023 11:15:00 AM	LT1	LT1	
	2-7-2023 12:30:00 PM	LT1	LT1	
	2-28-2023 9:00:00 AM	LT1	LT1	
	3-21-2023 9:15:00 AM	LT1	LT1	
	4-11-2023 9:30:00 AM	LT1	LT1	
	5-2-2023 11:15:00 AM	LT1	LT1	
	5-23-2023 9:15:00 AM	LT1	LT1	
	6-13-2023 9:00:00 AM	LT1	LT1	
	7-4-2023 11:45:00 AM	LT1	LT1	
	7-25-2023 12:45:00 PM	LT1	LT1	
	8-15-2023 10:30:00 AM	LT1	LT1	
	9-5-2023 12:30:00 PM	LT1	LT1	
	9-26-2023 11:45:00 AM	LT1	LT1	
	10-17-2023 11:15:00 AM	LT1	LT1	
	11-7-2023 8:15:00 AM	LT1	LT1	
	11-28-2023 8:15:00 AM	LT1	LT1	
	AM 12-19-2023 8:10:00 AM	<u>LT1</u>	<u>LT1</u>	
	Total Positive:	0	0	0

<u>11 Well 2 Yale Rd,</u> <u>Yale Rd</u>

		-	
Total Positive:	0	0	0
12-5-2023 12:30:00 PM	<u>LT1</u>	<u>LT1</u>	
11-14-2023 8:30:00 AM	LT1	LT1	
AM			
AM 10-24-2023 8:15:00	LT1 GTR200	LT1 GTR200	
10-3-2023 9:30:00	LT1	LT1	
8-22-2023 8:45:00 AM	LT1	LT1	
8-1-2023 1:10:00 PM	LT1	LT1	
PM			
PM 7-11-2023 1:00:00	LT1	LT1	
6-20-2023 12:30:00	LT1	LT1	
5-30-2023 10:40:00 AM	LT1	LT1	
5-9-2023 8:00:00 AM	LT1	LT1	
AM			
AM 4-18-2023 8:30:00	LT1	LT1	
3-28-2023 8:15:00	LT1	LT1	
2-14-2023 9:30:00 AM	LT1	LT1	
1-24-2023 12:00:00 PM	LT1	LT1	
1-3-2023 1:15:00 PM	LT1	LT1	

Result Values: E - estim	nated	L - less than	G - greater than	
Samples that contain total coliform Samples that contain e. coli: Samples that contain fecal coliform	0		0.00% of total 0.00% of total 0.00% of total	
Number of consecutive samples th contain total coliform:				
Number of samples that contain to coliform in last 30 days:	tal 0/0			
Total number of samples:	32			

Comments:

Environmental Health Officer Mar 13 2024

FOR FURTHER INFORMATION PLEASE CALL: Jeniene Lutz (604) 870-7900



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

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W: www.element.com

Analytical Re	eport					
Bill To:	Fraser Valley Regional Distri 1 - 45950 Cheam Ave. Chilliwack, BC, Canada V2P 1N6	rict Project ID: Project Name: Project Location: LSD:	Chem/Phys	Date	Lot ID: 17240 ol Number: Received: Apr 9, 20 Reported: Apr 15, 2)24
Attn:	Accounts Payable	P.O.:			rt Number: 2991142	
Sampled By:	Bikafi	Proj. Acct. code:		•	port Type: Final Re	
Company:	FVRD					pon
		Reference Number	1724049-2			
		Sample Date	April 09, 2024			
		Sample Time	NA			
		Sample Location				
		Sample Description	Area D WS / W	/ildrose # 3 / 4.8 °C		
		Sample Matrix	Drinking Water			
				Nominal Detection	Guideline	Guideline
Analyte		Units	Result	Limit	Limit	Comments
letals Extracta	ble					
Aluminum	Extractable	mg/L	0.002	0.001	0.1 OG; 2.9 MAC	Below OG
Antimony	Extractable	mg/L	0.00015	0.00002	0.006	Below MAC
Arsenic	Extractable	mg/L	0.0008	0.0001	0.010	Below MAC
Barium	Extractable	mg/L	0.031	0.0001	2.0	Below MAC
Boron	Extractable	mg/L	0.021	0.002	5	Below MAC
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.007	Below MAC
Chromium	Extractable	mg/L	0.00044	0.00005	0.05	Below MAC
Copper	Extractable	mg/L	0.0008	0.0005	1 AO; 2 MAC	Below AO
Lead	Extractable	mg/L	0.00014	0.00001	0.005	Below MAC
Selenium	Extractable	mg/L	0.0013	0.0002	0.05	Below MAC
Strontium	Extractable	mg/L	0.47	0.0001	7.0	Below MAC
Uranium	Extractable	mg/L	0.00040	0.00001	0.02	Below MAC
Vanadium 	Extractable	mg/L	0.00073	0.00005		5 1 1 6
Zinc	Extractable	mg/L	0.0006	0.0005	5.0	Below AO
	ggregate Properties	O a la sur sur l'ita	-	-		
Colour Turkiality	True	Colour units	<5	5	04/02/4000	
Turbidity Routine Water		NTU	<0.10	0.1	0.1/0.3/1.0 OG	
			7.64	0.01	7.0-10.5	Within Dongo
pH pH - Holding Tin	m o		7.64 Exceeded	0.01	7.0-10.5	Within Range
Temp. of observ		°C	21.5			
Electrical Condu		μS/cm	470	1		
Calcium	Extractable	mg/L	65	0.01		
Iron	Extractable	mg/L	<0.004	0.004	0.3	Below AO
Magnesium	Extractable	mg/L	12	0.02	0.0	
Manganese	Extractable	mg/L	<0.001	0.001	0.02 AO; 0.12 MAC	Below AO
Potassium	Extractable	mg/L	0.89	0.04		
Silicon	Extractable	mg/L	6.1	0.005		
Sodium	Extractable	mg/L	6.3	0.1	200	Below AO
T-Alkalinity	as CaCO3	mg/L	161	5		
Chloride	Dissolved	mg/L	9.78	0.05	250	Below AO
Fluoride	Dissolved	mg/L	0.02	0.01	1.5	Below MAC
Nitrate - N	Dissolved	mg/L	1.78	0.01	10	Below MAC
Nitrite - N	Dissolved	mg/L	<0.01	0.01	1	Below MAC
Sulfate (SO4)	Dissolved	mg/L	32.9	0.1	500	Below AO
Hardness	as CaCO3 (extractable)	mg/L	210	1		_
Total Dissolved	Solids Extractable	mg/L	248	1	500	Below AO

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