

Annual Report – Small Water System

DEWDNEY ELEMENTARY

As required under Section 15 of the Drinking Water Protection Act, water suppliers are to report the water quality monitoring results to the water system users on an annual basis.

Report Date: June 30, 2021

Reporting Period: January 1, 2020 to December 31, 2020

Owner: Board of School Trustees, School District No. 75 (Mission)

Any questions concerning this report please contact:

Dana MacLean, Director of Operations
School District No. 75 (Mission)
33940 Dlugosh Avenue
Mission, BC V2V 6B2
Phone: 604.826.7375
Email: dana.maclean@mpsd.ca

Water System Classification:

Classified as a Small Water System by Environmental Operators
Certification Program

Certified Operators for the Small Water System:

School District No. 75 (Mission) has two (2) employees certified as
Small Water System Operators

**Results of Coliform/E. coli monitoring as per Section 11 of the Act and Section 8 of the
Regulations:**

Attached

Results of chemical analysis conducted during the period covered by this report:

Attached

**SCHOOL DISTRICT #75 (MISSION)
EMERGENCY RESPONSE PLAN**

SMALL WATER SYSTEMS

Part A: Well Water Quality

1. The Facilities Department will conduct routine sampling of all well water in the district to be tested by a certified test lab.
2. In the event of adverse well water test results, the following procedures, in accordance with the Guidelines for Canadian Drinking Water Quality, will apply:
 - a. Contact Kevin Freer or alternate at Fraser Health Authority
 - b. An alternative source of water will be supplied and corrective action taken in consultation with the applicable governing agency if:
 - i. A sample contains more than ten (10) total coliforms per 100 ml.
 - ii. A sample contains any fecal coliform.
 - iii. Any consecutive samples from the same site show the presence of coliform.
 - iv. A sample shows an unsuitable compound of chemical.
 - c. If total coliform organisms are detected from a single sample, the site shall be re-sampled until three (3) consecutive samples comply with the regulations.
 - d. Alternative water supply will continue until three (3) consecutive samples comply with the Drinking Water Protection Act and Regulations.
 - e. All sources of drinking water on site will be tagged “Do Not Drink” and sealed from use where possible.

Part B: Loss of Water Supply

In the event of disruption in the water supply, immediately notify Brian Standing or alternate at Fraser Health Authority. District staff will be dispatched immediately to assess and correct the situation.

- a. Should it be determined that the disruption will exceed two (2) hours, alternate sources of water (dispensers) will be provided to the site.
- b. Should the disruption exceed one (1) day, either a delivery system will be installed at the site or students will be relocated to an unaffected site.

Part C: Emergency Contacts

In the event of any abnormal operating condition or emergency effecting or potentially affecting the water system, please contact one of the following managers from the Facilities Department at 604.826.7375 or directly at the numbers provided. They will then contact Fraser Health Authority immediately.

	Cell Phone #
Dana MacLean, Director of Operations	604.850.4193
Martin Funk, Engineering Foreman	604.302.4161

Part D: Questions or Concerns

If you have any questions or concerns regarding this Emergency Response Plan for Small Water Systems, please contact one of the Fraser Health Authority water inspectors at 604.870.7900 or at the numbers provided:

	Work #	After Hour #s
Medical Health Officer	604.587.3828 1.877.342.6467	604.527.4806
Barbara Haworth, Drinking Water Program	604.870.7920	604.615.1140

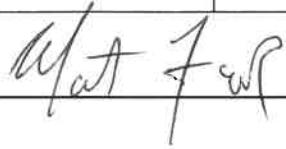
Part E: Emergency Contact Numbers

Dewdney Elementary School	604.826.7375
Ferndale Elementary School	604.826.7375
Silverdale Elementary School	604.826.7375
Stave Falls Elementary School	604.826.7375

EMERGENCY RESPONSE & CONTINGENCY PLAN

Water System Name: Dewdney Elementary

Emergency Contacts	Name and Title	Phone	Fax	E-mail
Water System - Primary Contact <small>(person responsible for receiving call from lab and/or FHA)</small>	Martin Funk Foreman	604-826-7375 604-302-4161	604-826-9273	martin.funk@mpsd.ca
Water System - Secondary Contact <small>(Should primary contact be ill or on vacation etc.)</small>	Dana MacLean Director	604-826-7375 604-302-4607	604-826-9273	dana.maclean@mpsd.ca
Water System Owner	SD75 Mission	604-826-7375 Cell: n/a	604-826-9273	
Fraser Health Authority Contacts				
Environmental Health Officer	Barbara Haworth	604.870.7900	604-870-7901	barb.haworth@fraserhealth.ca
Medical Health Officer		604-587-3828 1-877-342-6467	604-556-5077	
Fraser Health After Hours Contact <small>(After 4:30 pm or on weekends)</small>	Fraser Health On-Call Staff	604-527-4806		
Emergency Contacts				
Alternate Source of Water i.e. bottled water or bulk supply	Bottled water			
Plumbing Services	own			
Equipment Services i.e. Treatment/pumps	own			
Electrical Services	own			
B.C. Hydro				
Other				

Signature: , Martin Funk

Title: Foreman Engineering Dept

Name: Martin Funk

Date: June 30, 2021

DRINKING WATER SYSTEM ANNUAL REPORT

Reporting Period: January 1st to December 31st, 2020 (year)

Water System Dewdney Elementary

Water System Owner School District #75 (Mission)

Primary Contact Name (Operator or Manager) Martin Funk, Foreman Engineering Dept.

Phone Number (Operator or Manager) 604.302.4161

E-mail (Operator or Manager) martin.funk@mpsd.ca

DESCRIBE YOUR WATER SUPPLY SYSTEM

What is the Source(s) of Raw Water?

Deep Well Shallow Well Surface Water Other

If other, specify details: Sand point

Does the Drinking Water System have Primary Disinfection? Yes No

Chlorination Ultraviolet Light Ozone Other

If other, specify details: Filter

Does the Drinking Water System have Secondary Disinfection? Yes No

Chlorination Other

If other, specify details:

Does the Drinking Water System have Filtration? Yes No

Check all boxes that apply

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

If other, specify details:

PUBLIC REPORTING

Emergency Response & Contingency Plan (ERCP)

Is your ERCP up to Date? Yes No

How do you Inform the System Users of the ERCP?

Hand Delivered Bulletin Board Newspaper Utility Bill Insert Website

Other (specify details)

Drinking Water System Annual Report

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

Hand Delivered Bulletin Board Newspaper Utility Bill Insert Website

Other (specify details)

CHEMICAL SAMPLING COMPLETED DURING THIS REPORTING PERIOD

Was any chemical sampling conducted during reporting period? Yes No

If no, when were the last chemical samples conducted for this system? **If yes, did all water samples meet the Guidelines for Canadian Drinking Water Quality?**

(date) Don't Know Never Yes 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

ADDITIONAL TESTING

Does the system have analyzers for continuous monitoring? Yes No

If yes, check all boxes that apply:

Chlorine Turbidity Other (details)

Are the results available on request?

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

Additional Testing & Reason for Sampling	Corrective Action Taken

WATER QUALITY COMPLAINTS

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

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

Date	Water Quality Complaint	Corrective Action / Treatment

OPERATIONAL PROBLEMS

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

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

Incident Date	Type of Operational Problem	Corrective Action Taken

MAJOR UPGRADES/REPAIRS & EXPENSES

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

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

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

FUTURE IMPROVEMENTS

Are there any plans for future improvements? Yes No

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

Future Upgrades or Improvements	Estimated Date of Completion

DATE COMPLETED: 30-Jun-2021	COMPLETED BY: Martin Funk, Engineering Foreman
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Sample Range Report

Fraser Health Authority

Facility Name: Dewdney Elementary School WS
Date Range: Jan 1 2020 to Dec 31 2020

<u>Sampling Site</u>	<u>Date Collected</u>	<u>Total Coliform</u>	<u>E. Coli</u>	<u>Fecal Coliform</u>
<u>Montessori Sink,</u>				
<u>37151 Hawkins</u>				
<u>Road</u>				
	2-11-2020 8:30:00 AM	LT1	LT1	
	6-9-2020 8:30:00 AM	LT1	LT1	
	6-16-2020 8:30:00 AM	LT1	LT1	
	10-6-2020 8:30:00 AM	LT1	LT1	
	11-17-2020 8:00:00 AM	LT1	LT1	
	11-24-2020 8:30:00 AM	<u>LT1</u>	<u>LT1</u>	
	Total Positive:	0	0	0
<u>Staff Room Kitchen</u>				
<u>Tap, 37151 Hawkins</u>				
<u>Pickle Rd</u>				
	1-7-2020	L1	L1	
	1-28-2020 8:30:00 AM	LT1	LT1	
	2-4-2020 8:30:00 AM	LT1	LT1	
	2-18-2020 8:30:00 AM	LT1	LT1	
	2-25-2020 8:30:00 AM	LT1	LT1	
	3-4-2020 8:30:00 AM	LT1	LT1	
	3-17-2020 8:30:00 AM	LT1	LT1	
	4-7-2020 8:30:00 AM	LT1	LT1	
	4-14-2020 8:30:00 AM	LT1	LT1	
	4-28-2020 8:30:00 AM	LT1	LT1	
	5-6-2020 8:30:00	LT1	LT1	

AM			
5-12-2020 8:30:00	LT1	LT1	
AM			
5-20-2020 8:05:00	LT1	LT1	
AM			
6-23-2020 8:30:00	LT1	LT1	
AM			
7-7-2020 8:30:00	LT1	LT1	
AM			
7-21-2020 8:30:00	LT1	LT1	
AM			
8-4-2020 8:12:00	LT1	LT1	
AM			
8-19-2020 8:30:00	LT1	LT1	
AM			
9-2-2020 8:30:00	LT1	LT1	
AM			
9-16-2020 8:30:00	LT1	LT1	
AM			
9-29-2020 8:05:00	LT1	LT1	
AM			
10-14-2020 8:30:00	LT1	LT1	
AM			
10-20-2020 8:30:00	LT1	LT1	
AM			
10-27-2020 8:30:00	LT1	LT1	
AM			
12-1-2020 8:30:00	LT1	LT1	
AM			
12-15-2020 8:30:00	<u>LT1</u>	<u>LT1</u>	
AM			
Total Positive:	0	0	0

PAC Kitchen Tap.
37151 Hawkins
Pickle Rd

1-21-2020	L1	L1
3-10-2020 8:30:00	LT1 GTR200	LT1 GTR200
AM		
3-31-2020 8:30:00	LT1	LT1
AM		
4-21-2020 8:30:00	LT1 GTR200	LT1 GTR200
AM		
5-26-2020 8:30:00	QRWRT	QRWRT
AM		
6-2-2020 8:30:00	LT1	LT1
AM		
7-14-2020 8:30:00	LT1 GTR200	LT1 GTR200
AM		
8-25-2020 8:30:00	LT1 GTR200	LT1 GTR200
AM		
9-9-2020 8:30:00	LT1	LT1
AM		
9-22-2020 8:30:00	LT1	LT1
AM		

11-3-2020 8:30:00 AM	LT1	LT1	
12-8-2020 8:30:00 AM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	0	1	0

AUDIT Dewdney
School - Medical
Room, Hawkins
Pickle Road

2-24-2020 12:00:00 PM	LT1	LT1	
6-9-2020 11:35:00 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:	0		0.00% of total
Samples that contain e. coli:	1		2.17% 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:	46		

Comments:

Environmental Health Officer
Feb 11 2021

FOR FURTHER INFORMATION PLEASE CALL: Barb Haworth



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 W: element.com

Report Transmission Cover Page

Bill To: School District #75 - Mission 33919 Dewdney Trunk Road Mission, BC, Canada V2V 5X4	Project ID: 59772	Lot ID: 1405923
Attn: Mihaela Vidam	Project Name: Dewdney Elementary	Control Number:
Sampled By:	Project Location: 37151 Hawkins Pickle Rd.	Date Received: Feb 4, 2020
Company:	LSD: Dewdney, BC V0M 1H0	Date Reported: Feb 5, 2020
	P.O.:	Report Number: 2488307
	Proj. Acct. code:	

Contact	Company	Address
Lynn McCaw	School District #75 - Mission	33940 Dlugosh Avenue Mission, BC V2V 6B2 Phone: (604) 826-7375 Fax: (604) 820-0927 Email: lynn.mccaw@mpsd.ca

Delivery	Format	Deliverables
Email - Merge Reports	PDF	COC / Test Report
Email - Single Report	PDF	COA
Email - Single Report	PDF	COR

Mihaela Vidam	School District #75 - Mission	33919 Dewdney Trunk Road Mission, BC V2V 5X4 Phone: (604) 826-6286 Fax: (604) 820-0927 Email: mihaela.vidam@mpsd.ca
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Delivery	Format	Deliverables
Email - Single Report	PDF	Invoice


Notes To Clients:

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Analytical Report

Bill To: School District #75 - Mission 33919 Dewdney Trunk Road Mission, BC, Canada V2V 5X4	Project ID: 59772 Project Name: Dewdney Elementary Project Location: 37151 Hawkins Pickle Rd. LSD: Dewdney, BC V0M 1H0 P.O.: Proj. Acct. code:	Lot ID: 1405923 Control Number: Date Received: Feb 4, 2020 Date Reported: Feb 5, 2020 Report Number: 2488307
Attn: Mihaela Vidam		
Sampled By:		
Company:		

Sample Id	Analyte Description Unit of Measure Nominal Detection Limit	Lead Element mg/L 0.00001	Results	Guideline Limit	Guideline Comments
6967157	1 / DF Rm 201 / 17.4 °C		0.01618	0.005	Above MAC
6967170	1A / DF Rm 201 / 17.4 °C		0.00142	0.005	Below MAC
6967171	7 / DF Rm 200 / 17.4 °C		0.03343	0.005	Above MAC
6967172	7A / DF Rm 200 / 17.4 °C		0.00040	0.005	Below MAC
6967173	8 / DF Rm 109 / 17.4 °C		0.01551	0.005	Above MAC
6967174	8A / DF Rm 109 / 17.4 °C		0.00119	0.005	Below MAC
6967175	9 / DF Rm 133 / 17.4 °C		0.05456	0.005	Above MAC
6967176	9A / DF Rm 133 / 17.4 °C		0.00240	0.005	Below MAC
6967177	4 / Staff Rm 127 / 17.4 °C		0.01743	0.005	Above MAC
6967178	4A / Staff Rm 127 / 17.4 °C		0.00070	0.005	Below MAC
6967179	11 / KS Health Rm 115 / 17.4 °C		0.04356	0.005	Above MAC
6967180	11A / KS Health Rm 115 / 17.4 °C		0.00073	0.005	Below MAC
6967181	5 / DF Across from Rm 26 / 17.4 °C		0.00084	0.005	Below MAC
6967182	5A / DF Across from Rm 26 / 17.4 °C		0.00059	0.005	Below MAC
6967183	12 / KS PAC Kitchen Rm 125 / 17.4 °C		0.02191	0.005	Above MAC
6967184	12A / KS PAC Kitchen Rm 125 / 17.4 °C		0.00105	0.005	Below MAC
6967185	13 / KS Rm 126 / 17.4 °C		0.00871	0.005	Above MAC
6967186	13A / KS Rm 126 / 17.4 °C		0.00064	0.005	Below MAC
6967187	15 / KS Montessori / 17.4 °C		0.00359	0.005	Below MAC
6967188	15A / KS Montessori / 17.4 °C		0.00028	0.005	Below MAC

Approved by: 
Matthew Norman, BSc, PChem
Operations Chemist

Data have been validated by Analytical Quality Control and Element's Integrated Data Validation System (IDVS).
Generation and distribution of the report, and approval by the digitized signature above, are performed through a secure and controlled automatic process.

Methodology and Notes

Bill To: School District #75 - Mission 33919 Dewdney Trunk Road Mission, BC, Canada V2V 5X4	Project ID: 59772	Lot ID: 1405923
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	Proj. Acct. code:	

Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Trace Metals (extractable) in Water (VAN)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 <i>* Reference Method Modified</i>	Feb 4, 2020	Element Vancouver

References

US EPA US Environmental Protection Agency Test Methods

Guidelines

Guideline Description Health Canada GCDWQ
 Guideline Source Guidelines for Canadian Drinking Water Quality, Health Canada, June 2019
 Guideline Comments MAC = Maximum Acceptable Concentration
 AO = Aesthetic Objective
 OG = Operational Guideline for Water Treatment Plants
 (does not apply to private groundwater wells).
 Refer to Health Canada for complete guidelines at www.hc-sc.gc.ca

The comparison of test results to guideline limits is provided for information purposes only. This is not to be taken as a statement of conformance / nonconformance to any guideline, regulation or limit. The data user is responsible for all conclusions drawn with respect to the data and is advised to consult official regulatory references when evaluating compliance.

Please direct any inquiries regarding this report to our Client Services group.

Results relate only to samples as submitted.

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