

## North Shore Water Utility Nelson Ltd. Monthly Report

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**To:** Pouria Mojtahedi, Large Water Systems Environmental Health Officer, Interior Health Authority  
**From:** Aqua Diversities Inc., Nathan Ward, WQT, Level 2 EOCP Water Operator  
**Date:** February 16<sup>th</sup>, 2021  
**Re:** Monthly Report for North Shore Water Utility – January 2021

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This document includes the following items as part of monthly report for the North Shore Water Utility Nelson Ltd. (NSWU):

- 1.0 Daily Water Consumption**
- 2.0 Microbiological Test Results**
- 3.0 Operator Log Sheets and Water Quality Events**
- 4.0 Major Operational Events**
- 5.0 Records of Customer Feedback and Response**

Submission of this report is to enhance communication with the local Environment Health Officer (EHO) and meet requirements for status compliance on the conditions summarized in the Operating Permit.

### 1.0 Daily Water Consumption

Total water consumption in January was 7,643.1m<sup>3</sup>; average daily consumption was 246.6 m<sup>3</sup>/day. Average flow was 10.3m<sup>3</sup>/hr.

### 2.0 Microbiological Test Results

A sample from both ends of the distribution system is collected and submitted to an accredited laboratory for bimonthly microbiological testing.

All monthly testing results satisfy the Maximum Allowable Concentration (MAC) standard as set out by the Guidelines for Canadian Drinking Water Quality (GCDWQ).

See **Appendix A** for Laboratory Results

### 3.0 Operator Log Sheets and Water Quality Events

NSWU continues to be tested on an every-other-day schedule as specified by the EHO. The log sheets include comments on source, treatment, and distribution system events. Log sheets also include information on weather for the corresponding test date, which helps correlate weather events to turbidity levels.

Throughout the month of January, chlorine residuals were maintained above 0.45 mg/L across the distribution system.

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See **Appendix B** for Operator Log Sheets.

#### **4.0 Major Operational Events**

There were three power outages on January 13<sup>th</sup> affecting the North Shore and Johnston Rd area. During these power outages there was no interruption in service to the NSWU community.

Note that the pilot plant located in the Isaac Creek reservoir building continues to operate with the treated water going to waste (as per direction from EHE Marianne Crowe).

#### **5.0 Records of Customer Feedback and Response**

There was no record of customer feedback for the month of January.

Report Reviewed by:

A handwritten signature in black ink that reads "Nathan Ward".

Nathan Ward, EOCP Operator 4130

# Appendix A

## Laboratory Results

4240 Passmore Upper Road, Winlaw BC, V0G2J0  
250-226-7339  
test@passmorelaboratory.ca  
passmorelaboratory.ca

Client Aquadiversities  
Attention Tim Flanagin

CERTIFICATE OF ANALYSIS

<u>Analyses</u>	<u>Method Description</u>	<u>Reference</u>
Total Coliforms	Membrane Filtration on LES Endo medium	APHA 9222B
E. coli	MF Partition on NA-MUG medium	APHA 9222I

Tests were performed in accordance with methods outlined in the "Standard Methods for the Examination of Water and Wastewater", 23rd Edition, 2017 published by the American Public Health Association.

Passmore Laboratory Ltd. complies with methods and certification through the Province of British Columbia Enhanced Water Quality Assurance (EWQA) Program and the Clinical Microbiology Proficiency Testing (CMPT) Program. Other analytical results on this report not listed above are not within the scope of the EWQA. Passmore Laboratory assumes no responsibility for any loss or damage resulting from error or omission in the conduct of testing. Liability is limited to the cost of the analysis.

Processed by: Zach Yeow

Jennifer Yeow,  
Lab Manager



Please call or Email for with any questions, feedback, or more information

**ANALYTICAL RESULTS**

Sample ID	Main Jet			Sample #	1
Date/Time Sampled	1/5/2021	1:15 PM	Matrix	TW	Temperature on Receipt
Date/Time on Test	1/5/2021	8:55 PM			
<u>Analyses</u>		<u>Result</u>	<u>Units</u>	<u>RDL</u>	
Coliforms, Total		less than 1	CFU/100mL	1	
Verified E.coli		less than 1	CFU/100mL	1	

Sample ID	438 Johnstone Rd.			Sample #	2
Date/Time Sampled	1/5/2021	1:30 PM	Matrix	TW	Temperature on Receipt
Date/Time on Test	1/5/2021	9:00 PM			
<u>Analyses</u>		<u>Result</u>	<u>Units</u>	<u>RDL</u>	
Coliforms, Total		less than 1	CFU/100mL	1	
Verified E.coli		less than 1	CFU/100mL	1	

**Glossary of Terms**

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

**References**

**ANALYTICAL RESULTS**

Sample ID	Main Jet			Sample #	1
Date/Time Sampled	1/19/2021	12:00 AM	Matrix	Temperature on Receipt	8

Date/Time on Test 1/19/2021 8:05 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	438 Johnstone Rd.			Sample #	2
Date/Time Sampled	1/19/2021	12:15 PM	Matrix	Temperature on Receipt	7

Date/Time on Test 1/19/2021 8:10 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

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**References**