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## 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:** December 16, 2022  
**Re:** Monthly Report for North Shore Water Utility - **November 2022**

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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 November was 4,317m<sup>3</sup>; average daily consumption was 144 m<sup>3</sup>/day. The average flow was 6.32 m<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 the source, treatment, and distribution system events. Log sheets also include information on the weather for the corresponding test date, which helps correlate weather events to turbidity levels.

Throughout the month of November, chlorine residuals were maintained above 0.5 mg/L across the distribution system.

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

#### 4.0 Major Operational Events

Between November 24<sup>th</sup>-28<sup>th</sup> Aqua Diversities/Kay's Contracting installed a new ¾" service line was installed connecting 606 Jorgensen rd. to the water main on Valhalla rd. On November 29<sup>th</sup> the Isaac intake was cleaned.

There were no other major events to report for the month of November.

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 were customer inquiries related to the service line installation which were responded to by phone and email. Note that customers were informed by text alert, email and via the website about the works.

Report Reviewed by:



Nathan Ward, EOCP Operator 4130

# Appendix A

## Laboratory Results



**PASSMORE  
LABORATORY LTD.**

Report# 5125  
Filename 221101A0.pdf

**ANALYTICAL RESULTS**

Sample ID	538 Johnstone Rd			Sample #	1	
Date/Time Sampled	2022-11-01	1:00 PM	Matrix	TW	Temperature on Receipt	8

Date/Time on Test	2022-11-01	4:25 PM			
<u>Analyzes</u>		<u>Result</u>	<u>Units</u>	<u>BDL</u>	
Coliforms, Total		less than 1	CFU/100mL	1	
Verified E.coli		less than 1	CFU/100mL	1	

Sample ID	Main Jet			Sample #	2	
Date/Time Sampled	2022-11-01	1:15 PM	Matrix	TW	Temperature on Receipt	8

Date/Time on Test	2022-11-01	4:30 PM			
<u>Analyzes</u>		<u>Result</u>	<u>Units</u>	<u>BDL</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

**PASSMORE LABORATORY LTD.**

Report# 5188  
Filename 221122AD.pdf

**ANALYTICAL RESULTS**

Sample ID	538 Johnstone Rd	Sample #	1
Date/Time Sampled	2022-11-22 11:00 AM	Matrix	UGW
		Temperature on Receipt	8

Date/Time on Test	2022-11-22 4:15 PM
<b>Analyzes</b>	<b>Result</b> <b>Units</b> <b>BDL</b>
Coliforms, Total	less than 1      CFU/100mL      1
Verified E.coli	less than 1      CFU/100mL      1

Sample ID	Main Jet	Sample #	2
Date/Time Sampled	2022-11-22 11:15 AM	Matrix	UGW
		Temperature on Receipt	8

Date/Time on Test	2022-11-22 4:15 PM
<b>Analyzes</b>	<b>Result</b> <b>Units</b> <b>BDL</b>
Coliforms, Total	less than 1      CFU/100mL      1
Verified E.coli	less than 1      CFU/100mL      1

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References



## Appendix B Operator Log Sheet

**Operator Log Sheet**

Month: NOVEMBER 2022      538  
538  
538  
School District/Well      Main Jct.      Reviewed By:

Date	Time	CL2 Pump Setting	Raw Water Turbidity (Reservoir)	CL2 Pump Setting	Raw Water Turbidity (Reservoir)	CL2 RESIDUAL (Reservoir)	CL2 RESIDUAL (Reservoir)	CL2 RESIDUAL (Dist.)	End Of Distribution Location	CL2 RESIDUAL (Dist.)	End Of Distribution Location	Comments	Weather	Sampled by
YY/MM/DD	24:00:00	Base Cr. (1-10)	Free Cr. NTU	Sutherland Cr. (1-10)	Sutherland Cr. NTU	Issue Cr. mg/L	Sutherland Cr. mg/L	mg/L	NTU	mg/L	NTU		Frost/Temp.	
22/11/3	9:00	8.3	0.73			0.86		0.70	0.20	0.83	0.32	Microbiological Sample Taken/Filter Change/Etc.	Dry 2c	Ⓢ
22/11/5	9:00	8.3	0.59			0.99						Q = 516, 083 m <sup>3</sup>		Ⓢ
22/11/8	8:00	8.3	0.47			0.99				1.32	0.31	remote monitoring		Ⓢ
22/11/10	3:30	8.2	0.41			0.83		1.06	0.33	0.86	0.29	Water shut off at 538	Dry -3c	Ⓢ
22/11/13	8:00	8.2	0.40							1.14	0.27	"Frozen tap" ↑		Ⓢ
22/11/16	1:00	8.2	0.40			0.70		1.00	0.26	0.89			Dry 0c	Ⓢ
22/11/17	4:00	8.2	0.52			0.78		0.62					SUN.	FD
22/11/22	10:00	6.1	0.56			0.81		0.73	0.44	0.50	0.26	Bac T Sampling.	SUN-2c	FD
24	12:15	6.1	0.63			0.79		0.55	0.21	0.69	0.29		SUN -3c	Ⓢ
26	8:00	6.1	0.81			0.80				0.53	0.37	Saturday remote monitoring	SUN 5c	Ⓢ
29	11:00	6.1	0.61			0.79		0.51	0.36	0.53	0.37	recorded trailer perx flow	0c	Ⓢ
														Ⓢ
														Ⓢ
														Ⓢ
														Ⓢ

Reading of flow meter for Sunny Side trailer court (to be recorded once a month)      58,061,900      # The  
 Gallons      NOV 29 22