

# North Shore Water Utility Nelson Ltd. Monthly Report

To: Jennifer Beverly- Large Water Systems Environmental Health Officer, Interior Health Authority

From: Aqua Diversities Waterworks Inc.

Date: January 6<sup>th</sup>, 2025

Re: Monthly Report for North Shore Water Utility - December 2024

This document includes the following items as part of the 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 December was 5,565m<sup>3</sup>; average daily consumption was 179.5m<sup>3</sup>/day. The average flow was 7.47m<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 December, chlorine residuals were maintained above 0.2 mg/L across the distribution system.

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



### 4.0 Major Operational Events

No major operation events for the month of December.

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

There were no customer inquiries in the month of December.

Report Reviewed by:

Nicole Ward, BSc.P.Ag. Project Manager



# Appendix A Laboratory Results



PASSMORE LABORATORY LTD.

Report# 7557

Filename 241219AD.pdf

#### ANALYTICAL RESULTS

Sample ID Mair	Main Jet Sample #								
Date/Time Sample	ed 2024-12-18	11:00 AM	Matrix TW	Temperature on Receipt	11				
Data/Time on Tos	2024 12 10	2.EE DM							

Date/Time on Test 2024-12-19 2:55 PM

 Analyses
 Result
 Units
 RDL

 Coliforms, Total
 less than 1
 CFU/100mL
 1

 Verified E.coli
 less than 1
 CFU/100mL
 1

Sample ID NCCS 570 Johnstone Rd. Sample # 2

Date/Time Sampled 2024-12-18 11:00 AM Matrix TW Temperature on Receipt 11

Date/Time on Test 2024-12-19 3:00 PM

 Analyses
 Result
 Units
 RDL

 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 Pubic 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# 7580 Filename 241230AD.pdf

ANA	LYTI	CAL	RESU	LTS
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Sample ID Villa Motel Sample #									
Date/Time Sampled	2024-12-30	11:00 AM Matrix	W	Temperature on Receipt	8				
Date/Time on Test	2024-12-30	4:25 PM							
<u>Analyses</u>		Result	<u>Units</u>	RDL					
Coliforms, Total		less than 1	CFU/100mL	1					
Verified E.coli		less than 1	CFU/100mL	1					

Sample ID 538 Johnstone Rd Sample #									
Date/Time Sampled	2024-12-30	11:00 AM Matrix	TW	Temperature on Receipt	7				
Date/Time on Test	2024-12-30	4:30 PM							
<u>Analyses</u>		<u>Result</u>	<u>Units</u>	RDL					
Coliforms, Total		less than 1	CFU/100mL	1					
Verified E.coli		less than 1	CFU/100mL	1					

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RDL Reportable Detection Limit

#### References



# Appendix B Operator Log Sheet



Date	Time	CI2 Pump Setting %	CL2 pump duration	CL2 pump frequency	Raw Water Turbidity (Res.)	CL2 Residual (Res.)	CI2 Pump Setting	Raw Water Turbidity (Res.)	CL2 Residual (Res.)	CL2 Residual (Dist.)	CL2 Residual (Dist.)	Flow Meter Reading	Comments	Weather	
						Isaac Cr.	Sutherland	Sutherland	Sutherland						Sampled
YY/MM/DD	24:00:00	Isaac Cr			Isaac Cr. NTU	mg/L	Cr.(1-10)	Cr. NTU	Cr. mg/L	mg/L	mg/L	m3/Hr	Microbiological Sample Taken/Filter Change/Etc.	Precip./Temp	. By
12/1/2024															
12/2/2024															
12/3/2024	12:00	-	11.00	12.00	0.9	0.59	-	-	-	0.56	0.37	84790	take microbac samples, testing north shore	2 cloudy	OH
12/4/2024															
12/5/2024	10:30	-	11	12	0.79	0.86	-	-	-	0.69	0.68	85150	test north shore, deliver 5 carboys chlorine to issac re	2 cloudy	OH
12/6/2024															
12/7/2024	8:00		11.00	12.00	0.55	0.9	-	-	-	-	-				
12/8/2024														2 cloudy	FD
12/9/2024															
12/10/2024															
12/11/2024	2:30	-	8.00	12.00	0.67	1.02	-	-		0.73	0.71	68309.00		-2C, cloud	FD
12/12/2024															
12/13/2024	3:30	-	11.00	12.00	0.68	0.77				2.2	2.05	86643	Chlorine pump failed and was overdosing, replaced tu	3C cloudy	OH FD
12/14/2024															
12/15/2024															
12/16/2024															
12/17/2024	8:00		11	12	0.64	0.99	-			0.65	0.5	87438	Tested north shore		ОН
12/18/2024															
12/19/2024															
12/20/2024															-
12/21/2024	8:00		11	12	0.79	0.96				-	-				FD
12/22/2024															
12/23/2024	4:00	-	11	12	0.3	0.8	-			0.7	0.65	88555		2C cloud	FD
12/24/2024															
12/25/2024															
12/26/2024															<b>†</b>
12/27/2024	11:00		11	12	0.33	0.94				0.71	0.65	-	Topped up CL2, calibrated CL2 analyzer as it was readi	1C snow	FD
12/28/2024	8:00		11	12	0	0.88	-			-	-	89411		1C snow	FD
12/29/2024						2.00								22311011	1
12/30/2024	11:00		11	12	0.3	0.8				0.37	0.37	89791	Tested north shore, take microbac samples	1C cloudy	ОН
12/30/2024	8:00		10	12	0.29	1.1			-:-	0.57	0.37	-	Decreased cl2 pump run time	20 Cloudy	FD
12/31/2024	0.00		10		0.23	4.1	-					-	peciesses ciz pump run citte		10
Reading of flo	w meter for S	unny Side trai	ler court (to b	e recorded or	nce a month, U	Dec 3rd		Date:	6488.4						