

### 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: February 7<sup>th</sup>, 2025

Re: Monthly Report for North Shore Water Utility - January 2025

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 January was 4,854m<sup>3</sup>; average daily consumption was 156.5m<sup>3</sup>/day. The average flow was 6.52m<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 January, 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

A break in the main line at the intersection of Parkview and Parkview west. The line was exposed with HVAC and excavator then the line was repaired and buried back to grade. Customers in affected area were notified of brief water shut off to complete repairs.

### 5.0 Records of Customer Feedback and Response

There were no customer inquiries in the month of January.

Report Reviewed by:

Nicole Ward, BSc.P.Ag. Project Manager



## Appendix A Laboratory Results





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Report# 7633

Filename 250114AD.pdf

#### ANALYTICAL RESULTS

Sample ID Main Jet Sample # 1

Date/Time Sampled 2025-01-14 11:00 AM Matrix TW Temperature on Receipt 7

Date/Time on Test 2025-01-14 5:00 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 2025-01-14 11:00 AM Matrix TW Temperature on Receipt 7

Date/Time on Test 2025-01-14 5:05 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



**PASSMORE** PASSMORE
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Report# 7673

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ANALYTICAL RESULT
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Date/Time on Test	2025-01-28	4·25 PM			
Date/Time Sampled	2025-01-28	11:00 AM	Matrix TW	Temperature on Receipt	4
Sample ID Main J	et			Sample #	1

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

Sample ID NCCS 57	70 Johnstone Rd.			Sample #		
Date/Time Sampled	2025-01-28	11:00 AM	Matrix	TW	Temperature on Receipt	5
Date/Time on Test	2025-01-28	4:30 PM				
<u>Analyses</u>		Result		<u>Units</u>	RDL	
Coliforms, Total		less tha	n 1	CFU/100mL	1	
Verified E.coli		less tha	n 1	CFU/100mL	1	

### **Glossary of Terms**

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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



# Appendix B Operator Log Sheet



Month:	Jan-24										
						MainJet	570 Johnstone				
Date	Time	CL2 pump duration	CL2 pump frequency	Raw Water Turbidity (Res.)	CL2 Residual (Res.)	CL2 Residual (Dist.)	CL2 Residual (Dist.)	Meter reading reading from HMI	Comments	Weather	
MM/DD/YYYY	24:00:00			Isaac Cr. NTU	Isaac Cr. mg/L	mg/L	Isaac		Microbiological Sample Taken/Filter Change/Etc.	Precip./Temp.	Sample By
1/1/2024	İ			ĺ	ĺ			ĺ		Ì	
1/2/2024	1:00	10.00	12.00	0.28	0.79	0.5	0.30	90445.00	Tested north shore		ОН
1/3/2024											
1/4/2024	8:00	10.00	12.00	0.28	0.68	-	-	90810.00	Remote onitoring		ОН
1/5/2024											
1/6/2024											
1/7/2024	1:00	10.00	12.00	0.23	0.68	0.54	0.45	91370	tested north shore	1c	ОН
1/8/2024											
1/9/2024	1:30	10.00	12.00	0.34	0.81	0.75	0.78	91735.00	Tested north shore	1C	ОН
1/10/2024											
1/11/2024											
1/12/2024											
1/13/2024											
1/14/2024	10:30	10.00	12.00	0.19	0.67	0.67	0.86	92657.00	Tested north shore, take microbac samples, added 2 carboys of chlorin	-2C	ОН
1/15/2024											
1/16/2024											
1/17/2024	4:00	9	12	0.24	0.98	0.74	0.91	93183		1C	FD
1/18/2024											
1/19/2024	9:30	8			0.9						
1/20/2024											
1/21/2024											
1/22/2024	1:30	8	12	0.19	0.85	0.53	0.99	94032		-5	ОН
1/23/2024											
1/24/2024	11:30	8	12	0.17		0.95	0.88		tested north Shore	-1C	ОН
1/25/2024											
1/26/2024	8:00	8	12	0.15	0.81			94527	remote monitoring		ОН
1/27/2024											
1/28/2024	11:00	7	12	0.19	0.73	0.83	0.58	94963	Calibrated chlorine analyzer, lowered chlorine pum duration to 7 from	-6	ОН
1/29/2024	9:30	-	-	-	-	-	-	-	cleaned isaac intake, added 2 carboys of chlorine to reservoir	-4	ОН
1/30/2024	1:00	7	12	0.33	0.7	0.74	0.73	95299	Tested north shore	-3	ОН
1/31/2024											
Reading of flov	w meter for Su	unny Side trai	ler court (to b	e recorded on	ce a month)	14/1/2025	79591				



### Appendix C Field Memos



FIELD WORK MEMO  JAN 1971-8167H 2025 OH 9.548 FO 9.518 BA 8HRS  DATE: TIME: VEHICLE: COMMAN DISTANCE: PROJECT: 14-017 NSWU LEAK PEPAIR TYPE OF WORKS: WORKS REQUESTED:  FIELD TECH: OH, FD, BA SITE REP: 175, 160  MATERIALS: IN STOCK PURCHASED RECEIPTS: 175, 160  -1.X SS BARBED COUPLING 2!  -4 X SS CLAMPS  -1/3 YARO SANO  DESCRIPTION OF WORKS COMPLETED: -BCLCAU, CORDINATED GAS LIFE LOCATE, CORDINATED TURNING WATER OFF THOUSES -HYDPOVAC BY SO WATER LINE & GAS LINE -RECEIPTS: 175, 160  - BAKFILLED LITH 1/3 YARO SANO, COMPACTSO, BACKFILLED LITH DIRT FROM ARCA - BRUGHT SOME ALL IN  WORKS COMPLETED: 175, 160  ANTICIPATED RETURN DATE:  FUTURE WORKS:
MATERIALS REQUIRED:  DO PARTS NEED TO BE ORDERED? YES / NO
ADDITIONAL NOTES/SKETCHES:  - LOAK WAS ON UPPER PARKVIEW RO BESIDE 634  - LIME IS 2" WHITE STRIPE POLY, RATEO FOR 75 PSI  - PRESSURE IS 68PSI IN THIS AREA  - GAB LIME 3FF FROM 60GE OF RO, 30" DOWN  - WATER LINE 4FT DOWN 5.5FF FROM 60GE OF RO