North Shore Water Utility Nelson Ltd. Monthly Report

To: Jennifer Beverly, Large Water Systems Environmental Health Officer, Interior Health Authority
From: AquaDiversities Waterworks Inc.
Date: September 23rd, 2025
Re: Monthly Report for North Shore Water Utility - **August 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 August was 6,396m^3; average daily consumption was 206.3m^3/day. The average flow was 8.597m^3/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 August, 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

Both the Sutherland and the Isaac intake were cleaned of sediment buildup on the 8th of August. Drainage bars accessing the Isaac intake were cleaned on the 14th of August. The Curb stops at 673 and 661 Parkview Road were located and brought up to grade.

5.0 Records of Customer Feedback and Response

There were no customer inquiries in the month of August.

Report Reviewed by:



Nicole Ward, BSc.P.Ag. Project Manager

Appendix A
Laboratory Results

PASSMORE LABORATORY LTD.

Report# 8417
Filename 250812AD.pdf

ANALYTICAL RESULTS

Sample ID Main Jet — Sample # 1
Date/Time Sampled 2025-08-12 12:30 PM — Matrix TW — Temperature on Receipt 13 °C
Date/Time on Test 2025-08-12 4:40 PM

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

Sample ID 570 Johnstone Rd — Sample # 2
Date/Time Sampled 2025-08-12 1:00 PM — Matrix TW — Temperature on Receipt 13 °C
Date/Time on Test 2025-08-12 4:45 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 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# 8480
Filename 250826AD.pdf

ANALYTICAL RESULTS

Sample ID Main Jet — Sample # 1
Date/Time Sampled 2025-08-26 10:00 AM Matrix — Temperature on Receipt 7 °C
Date/Time on Test 2025-08-26 4:40 PM

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

Sample ID 570 Johnstone Rd — Sample # 2
Date/Time Sampled 2025-08-26 10:00 AM Matrix — Temperature on Receipt 6 °C
Date/Time on Test 2025-08-26 4:45 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 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

Appendix B
Operator Log Sheet

Month: ~~Aug-25~~

Date	Time	Cl2 Pump Setting	CL2 pump duration	CL2 pump frequency	Raw Water Turbidity (Res.)	CL2 Residual (Res.)	Cl2 Pump Setting	Raw Water Turbidity (Res.)	CL2 Residual (Res.)	CL2 Residual (Dist.) Mainlet	CL2 Residual (Dist.) 570 Johnstone Rd	Flow Meter Reading	Comments	Weather	
MM/DD/YYYY	24:00:00	Isaac Cr. (1 10)			Isaac Cr. NTU	Isaac Cr. mg/L	Sutherland Cr.(1 10)	Sutherland Cr. NTU	Sutherland Cr. mg/L	mg/L	mg/L	m3/Hr	Microbiological Sample Taken/Filter Change/Etc.	Precip./Temp.	Sampled By
8/1/2025															
8/2/2025	7:45	%40	9.00	12.00	0.22	0.74	-	-	-	-	-				TW
8/3/2025															
8/4/2025															
8/5/2025															
8/6/2025	11:00	%40	9.00	12.00	0.68	0.76	6.5	0.53	1.06	1	0.69	133831	Tested NSWU, confirmed cl2 anylizer reading same as handheld	18C rain	TW
8/7/2025	11:00	%40	9.00	12.00	0.21	0.8	6	0.58	1.1	0.54	0.71	134049	turned down cl2 pump setting at sutherland to 6	14C light rain	TW
8/8/2025	12:00	%40	-	-	-	-	-	-	-	-	-		Cleaned southerland intake and fixed screen	19C	TW/FD
8/9/2025															
8/10/2025															
8/11/2025	9:00	40%	9.00	12.00	-	1.1	6	-	-	-	-		replaced CL2 pump tube at Isaac	-	FD
8/12/2025	11:00	40%	9.00	12.00	0.21	0.94	6	0.43	0.36	0.62	0.91				TW
8/13/2025															
8/14/2025	10:30	%40	9.00	12.00	1.23	0.8	6	0.65	0.95	0.95	1.38	135634	cleaned out drainage bars on Isaac rd	20C sunny	
8/15/2025															
8/16/2025															
8/17/2025															
8/18/2025															
8/19/2025	2:00	40%	9	12	0.21	0.8	6	0.92	0.7	0.73	0.67	136801		23C sunny	TW
8/20/2025															
8/21/2025	1:00	40%	9	12	0.19	0.8	6	0.91	0.81	0.77	0.5	137290	had to test in the kitchen at nccs so cl2 was lower than usual	22c	TW
8/22/2025															
8/23/2025															
8/24/2025															
8/25/2025															
8/26/2025	10:00	40%	9	12	0.21	0.76	5	0.31	1.7	0.6	1.5	138515	submitted MicroBac samples, decreased Southerland Cl2 pump		TW
8/27/2025															
8/28/2025	2:00	%40	9	12	0.24	0.69	4	0.41	1.3	0.75	0.95	138807		24C	FD
8/29/2025															
8/30/2025	8:00	40%	9	12	0.23	0.73	4	-	-	-	-			20C	FD
8/31/2025															
Reading of flow meter for Sunny Side trailer court (to be recorded once a month)						164932 gallons		Date:	September 28th						
											total flow	6396	(Calculated using meter reading from July 31: 132411 m3/Hr)		

Appendix C
Field Memos

FIELD WORK MEMO

DATE: AUG 8TH 2025 TIME: 7HRS VEHICLE: PERSONAL ☐ COMPANY ☐ DISTANCE:

PROJECT: 14-017 NSWA TYPE OF WORKS: O&M

WORKS REQUESTED:

FIELD TECH: TU/FO SITE REP: ☐ YES / ☐ NO

MATERIALS: IN STOCK ☐ PURCHASED ☐ RECEIPTS: ☐ YES / ☐ NO

DESCRIPTION OF WORKS COMPLETED: PICTI

- CLEANED BOTH SOUTHERLAND & ISAAC INTAKES
- FIXED SCREEN ON SOUTHERLAND INTAKE

WORKS COMPLETED: ☐ YES / ☐ NO

ANTICIPATED RETURN DATE:

FUTURE WORKS:

MATERIALS REQUIRED: DO PARTS NEED TO BE ORDE

ADDITIONAL NOTES/SKETCHES:

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FIELD WORK MEMO

DATE: AUG 14th 2025 TIME: 4HRS VEHICLE: PERSONAL ☐ COMPANY ☐ DISTANCE:

PROJECT: [redacted] 14-017 NSWA TYPE OF WORKS: O&M

WORKS REQUESTED:

FIELD TECH: TW / FO SITE REP: ☐ YES / ☐ NO

MATERIALS: IN STOCK ☐ PURCHASED ☐ RECEIPTS: ☐ YES / ☐ NO

DESCRIPTION OF WORKS COMPLETED: PICTI

- CLEARED DRAINAGE BARS ON ISAAC ACCESS RD
- LOCATED 673 & 661 PARKVIEW CURBSTOPS & BROUGHT UP TO GRADE
- GOT MORE FITTINGS FOR RAISING CURBSTOP SERVICE BOXES FROM FARMERS

WORKS COMPLETED: ☐ YES / ☐ NO

ANTICIPATED RETURN DATE:

FUTURE WORKS:

MATERIALS REQUIRED: DO PARTS NEED TO BE ORDE

ADDITIONAL NOTES/SKETCHES:

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