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: July 8th, 2025
Re: Monthly Report for North Shore Water Utility - **June 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 June was 6,513m^3; average daily consumption was 217.1m^3/day. The average flow was 9.046m^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 June, 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 Issac and Sutherland intakes were cleaned June 5th& 6th. The distribution system was flushed June 23rd-25th, customers were notified via text/email alerts, the website and sandwich boards.
- A leaking curb stop was repaired at 541 Johnston Rd. on June 9th.
- Repairs to the leak at the Sutherland reservoir were complete.

5.0 Records of Customer Feedback and Response

There were no customer inquiries in the month of June.

Report Reviewed by:

Nicole Ward, BSc.P.Ag. Project Manager

Appendix A
Laboratory Results

PASSMORE LABORATORY LTD.

Report# 8156
Filename 250610AD.pdf

ANALYTICAL RESULTS

Sample ID Main Jet — Sample # 1
Date/Time Sampled 2025-06-10 11:00 AM Matrix TW — Temperature on Receipt 5 °C
Date/Time on Test 2025-06-10 4:30 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 2025-06-10 11:00 AM Matrix TW — Temperature on Receipt 5 °C
Date/Time on Test 2025-06-10 4:35 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# 8198
Filename 250617AD.pdf

ANALYTICAL RESULTS

Sample ID Main Jet — Sample # 1
Date/Time Sampled 2025-06-17 11:00 AM — Matrix TW — Temperature on Receipt 10 °C
Date/Time on Test 2025-06-17 4:05 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 2025-06-17 11:00 AM — Matrix TW — Temperature on Receipt 13 °C
Date/Time on Test 2025-06-17 4:10 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: Jun-25

Date	Time	Cl2 Pump Setting	CL2 pump duration	CL2 pump frequency	Treated Water Turbidity (Res.)	CL2 Residual (Res.)	Cl2 Pump Setting	Raw Water Turbidity (Res.)	CL2 Residual (Res.)	CL2 Residual (Dist.) MainJet	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	Microbiological Sample Taken/Filter Change/Etc.	Precip./Temp.	Sampled By
6/1/2025															
6/2/2025										0.65	0.58				
6/3/2025	2:30	-	10.00	12.00	0.4	0.83	-	-	-	0.65	0.58	118683	test north shore,	20C cloudy	OH
6/4/2025															
6/5/2025													Clean sutherland intake,		
6/6/2025		-	10.00	12.00	0.3	0.68	-	-	-	0.67	0.59	119383	Test north shore, clean Isaac Intake	30	OH
6/7/2025															
6/8/2025			10.00	12.00	0.3	0.68	-	-	-	-	-	119987	Remote Monitoring		OH
6/9/2025															
6/10/2025	11:00	-	10.00	12.00	0.29	0.55	7	0.89	2	0.63	0.54	120760	Test north shore, collect microbac samples, put sutherl	30C Sunny	OH
6/11/2025															
6/12/2025	12:00	-	9.00	12.00	0.27	0.77	7	0.45	1.7	0.59	0.68	121226	Test north shore, fill Isaac reservoir with 2 carboys of cl	22 rain	OH
6/13/2025															
6/14/2025	8:00	1.00	9.00	12.00	0.27	0.67	7	-	-	-	-	-	remote monitoring		OH
6/15/2025															
6/16/2025															
6/17/2025	1	-	9	12	0.23	0.82	7	0.53	1.11	0.56	0.3	122380	tested north shore, collect microbac samples	25C	OH
6/18/2025															
6/19/2025	11:00	1	9	12	0.4	0.68	7	0.49	0.9	0.52	0.41				OH
6/20/2025															
6/21/2025	12:15	1	9	12	0.26	0.71	-	-	-	-	-				OH
6/22/2025															
6/23/2025															
6/24/2025															
6/25/2025	12:30	-	9	12	0.18	0.71	7	0.53	1.01	0.73	0.56	124141	Tested north shore, added 2 carboys of chlorine to rese	16C	
6/26/2025	1:00	-	-	-	0.3	0.77	8	0.41	0.73	-	-	124327	Cleaned turbidity meter, flushing for the last three days	21C	TW FD
6/27/2025	2:30	-	9	12	0.26	0.64	8	-	-	0.83	0.35	-	Weedwacked around iso valves, hydrents, & access rds	16C	TW FD
6/28/2025	2:15	-	9	12	0.16	0.91	7.5	0.73	1.1		1.04	125196		27C	TW FD
6/29/2025															
6/30/2025															
Reading of flow meter for Sunny Side trailer court (to be recorded once a month)						139 768		Date:	July 27th						
											total flow	6513			

Appendix C
Field Memos

FIELD WORK MEMO

DATE: June 9th 2025 **TIME:** OH4hrs FD13hrs **VEHICLE:** PERSONAL ☑ COMPANY ☑ **DISTANCE:**

PROJECT: 14-017 NSWU **TYPE OF WORKS:** Repair and maintenance

WORKS REQUESTED: Repair leaking curbstop at 541 Johnstone rd

FIELD TECH: OH/FD **SITE REP:** ☐ YES / ☑ NO

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

-1X 3/4" comp x comp curbstop
-1X 3/4" x 1/2" comp x comp coupling
-2X SS liner

DESCRIPTION OF WORKS COMPLETED: **PICTURES:** ☑ YES / ☐ NO

-hand dug, using sump pump and generator to expose leak
-lowered pressure in area with isolation valve, replaced leaking curbstop
-backfilled with material from site (sandy) plus some dirt that was screened with excavator and loaded into trailer with exca

WORKS COMPLETED: ☑ YES / ☐ NO

ANTICIPATED RETURN DATE:

FUTURE WORKS:

MATERIALS REQUIRED: **DO PARTS NEED TO BE ORDERED?** ☐ YES / ☐ NO

ADDITIONAL NOTES/SKETCHES:

-parts have been ordered from farmers to replenish our inventory
-service branch is 3/4" copper
-corp appears to be paved over
-line to house is 1/2" copper

FIELD WORK MEMO

DATE: JUNE 23RD, 24TH & 25TH TOTAL 14.5HRS TIME: VEHICLE: PERSONAL ☑ COMPANY ☐ DISTANCE:

PROJECT: NSWU TYPE OF WORKS: ANNUAL DISTRIBUTION SYSTEM FLUSHING

WORKS REQUESTED:

FIELD TECH: OH, WS & FD SITE REP: YES ☐ / NO ☐

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

DESCRIPTION OF WORKS COMPLETED: PICTURES: YES ☐ / NO ☐

- FLUSHING DISTRIBUTION SYSTEM AS PER SOP
- PUTTING OUT SIGNAGE, PUTTING SIGNAGE BACK UP THAT BLEW OVER IN STORM, PUTTING SIGNAGE AWAY WHEN DONE, DRYING HOSES WHEN DONE
- TIME WAS SPENT DEALING WITH WATER USERS WHO HAD QUESTIONS & CONCERNS
- RAKING & SWEEPING TO ENSURE WE TIDIED UP ANY EROSION THAT WAS CAUSED

WORKS COMPLETED: YES ☐ / NO ☐

ANTICIPATED RETURN DATE:

FUTURE WORKS:

MATERIALS REQUIRED: DO PARTS NEED TO BE ORDERED? YES ☐ / NO ☐

ADDITIONAL NOTES/SKETCHES: