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: June 29th, 2026
Re: Monthly Report for North Shore Water Utility – **May 2026**

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 May was 5,969 m^3; average daily consumption was 193 m^3/day. The average flow was 8.02 m^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 May, 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

For the month of May there were no major events. Operation and maintenance tasks completed.

See **Appendix C** for field work memos.

5.0 Records of Customer Feedback and Response

There were no customer inquiries or feedback forms reported during the month of May.

Report Reviewed by:

Nicole Ward, BSc.P.Ag. Project Manager

Appendix A
Laboratory Results

PASSMORE LABORATORY LTD.

Report# 9345
Filename 260512AD.pdf

ANALYTICAL RESULTS

Sample ID Mainjet Motorsports — Sample # 1
Date/Time Sampled 2026-05-12 11:00 AM Matrix Creek — Temperature on Receipt 5 °C
Date/Time on Test 2026-05-12 5:12 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 2026-05-12 11:00 AM Matrix Creek — Temperature on Receipt 6 °C
Date/Time on Test 2026-05-12 5:15 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 *May differ if less than 100ml is used.

References

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PASSMORE LABORATORY LTD.

Report# 9387
Filename 260526AD.pdf

ANALYTICAL RESULTS

Sample ID Mainjet Motorsports — Sample # 1
Date/Time Sampled 2026-05-26 11:00 AM Matrix Creek — Temperature on Receipt 7 °C
Date/Time on Test 2026-05-26 4:55 PM

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

Sample ID 570 Johnstone Rd — Sample # 2
Date/Time Sampled 2026-05-26 11:00 AM Matrix Creek — Temperature on Receipt 7 °C
Date/Time on Test 2026-05-26 5:00 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 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 *May differ if less than 100ml is used.

References

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Appendix B
Operator Log Sheet

Month:	May				Sunnyside trailerpark flow meter:		266,933				
Date	Time	CL2 pump duration	CL2 pump frequency	Treated Water Turbidity (Res.)	CL2 Residual (Res.)	CL2 Residual (Dist.) (Mainjet)	CL2 Residual (Dist.) (570 Johnstone Rd.)	Meter reading reading from HMI	Comments	Weather	
MM/DD/YYYY	24:00:00			Isaac Cr. NTU	Isaac Cr. mg/L	mg/L	mg/L		Microbiological Sample Taken/Filter Change/Etc.	Precip./Temp.	Sampled By
5/1/2026											
5/2/2026	8:00	12	20	0.45	0.98	-	-	-			TW
5/3/2026											
5/4/2026											
5/5/2026	12:00	12	20	0.57	0.74	0.74	0.45	184950		18C sunny	TW
5/6/2026											
5/7/2026											
5/8/2026											
5/9/2026	8:00	12	20	0.48	0.95	-	-	-			TW
5/10/2026											
5/11/2026											
5/12/2026	12:00	12	20	0.46		0.67	0.53	186666	mb samples	18C sunny	TW
5/13/2026											
5/14/2026	11:00	12	20	0.45	0.75	0.9	0.099	187029		10C cloudy	DM
5/15/2026											
5/16/2026	8:00	12	20	0.88	0.96	-	-	-			TW
5/17/2026											
5/18/2026											
5/19/2026	12:00	12	20	0.43	0.75	0.61	0.48	188063		11C rainy	
5/20/2026											
5/21/2026	10:00	12	20	0.44	0.85	0.61	0.25	188456		15 Sunny	DM
5/22/2026											
5/23/2026	8:00 AM	12	20	0.46	0.72	-	-	-			TW
5/24/2026									corrected air pressure in Isaac expansion tank		OAD
5/25/2026									cl2 topped up		
5/26/2026	12:00	12	20	0.88	1.02	0.69	0.44	189698	MB samples	15C cloudy	TW
5/27/2026	10:00	12	20	1.05	1.19	-	-	-	cleaned both intakes, filled southerland reservoir		DM/TW/FD/OAD
5/28/2026	11:00	12	20			0.77	0.44		Rebuilt analyzer probe.		DM
5/29/2026											
5/30/2026											
5/31/2026											

Appendix C
Field Memos

FIELD WORK MEMO

DATE: MAY 5TH 2026 TIME: 1HR VEHICLE: PERSONAL ☐ COMPANY ☐ DISTANCE:

PROJECT: NSWU 595 VALHALA RD TYPE OF WORKS:

WORKS REQUESTED:

FIELD TECH: DM/FO SITE REP: ☐ YES / ☐ NO CURTIS

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

-USED RIDGID RADAR

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

-LOCATED & MARKED OUT WATER LINE FROM CURBSTOP TO HOUSE

-ATTEMPTED TO LOCATE LINE FROM HOSE TO BACK YARD HOSE BIB MULTIPLE TIMES W NO LUCK

WORKS COMPLETED: ☐ YES / ☐ NO

ANTICIPATED RETURN DATE:

FUTURE WORKS:

MATERIALS REQUIRED:

DO PARTS NEED TO BE ORDERED? ☐ YES / ☐ NO

ADDITIONAL NOTES/SKETCHES:

FIELD WORK MEMO

DATE: 2026-05-25 TIME: 14h30 VEHICLE: PERSONAL ☐ COMPANY ☒ DISTANCE: —
PROJECT: NSWU TYPE OF WORKS: O&M
WORKS REQUESTED: INSTALL AIR ADMITTANCE VALVES @ SOUTHERLAND

FIELD TECH: OAD SITE REP: ☐ YES / ☐ NO
MATERIALS: IN STOCK ☒ PURCHASED ☐ RECEIPTS: ☐ YES / ☒ NO
- 2X CHECK VALVES
- 2X 3/4" FIP x 3/4" COMPRESSION FITTINGS

DESCRIPTION OF WORKS COMPLETED:
- INSTALLED AIR ADMITTANCE @ SOUTHERLAND
- Pump pressure switch kept on turning on/off/on/off... every second with no water accumulation in the expansion tank (Exp. Tank)
- Checked the exp. tank pressure when empty and read 50 psi.
- Lowered the exp. tank pressure to 25-28 psi (approx.) and adjusted the pressure switch to activate between 30-60 psi.

PICTURES: ☐ YES / ☐ NO
WORKS COMPLETED: ☒ YES / ☐ NO

ANTICIPATED RETURN DATE:

FUTURE WORKS:
Check pressure switch contacts. The on/off cycles may have worn it prematurely.

MATERIALS REQUIRED:
N/A.

DO PARTS NEED TO BE ORDERED? ☐ YES / ☒ NO

ADDITIONAL NOTES/SKETCHES:
- Root cause: Exp. tank pressure too high. Wrong switch adjustment
- Lowered the bleed flow of turbidity sensor to increase time between pump cycles. Now ~5min