

North Shore Water Utility Nelson Ltd. Monthly Report

To: Pouria Mojtahedi, Large Water Systems Environmental Health Officer, Interior Health Authority From: Aqua Diversities Waterworks Inc.

- Date: November 7th, 2024
- Re: Monthly Report for North Shore Water Utility October 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 October was 6,039m³; average daily consumption was 194.8m³/day. The average flow was 8.11m³/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 October, 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 October.

Note that the pilot plant located in the Isaac Creek reservoir building continues to operate with the treated water going to waste (as per direction from EHE Marianne Crowe).

5.0 Records of Customer Feedback and Response

There were a few customer inquiries regarding the temporary housing at the North Shore Inn (Hwy 3A) in the month of October, these were responded to by e-mail and by phone.

Report Reviewed by:

Mahad

Nicole Ward, BSc.P.Ag. Project Manager



Appendix A Laboratory Results

North Shore Water Utility Nelson Ltd. Monthly Report 14-017 October_2024 MR V0.1.docx



Passmore Laborator		Report# Filename	7368 241022AD.pdf							
			ANALYTI	CAL RESULTS						
Sample ID Main J	et					Samp	le# 1			
Date/Time Sampled	2024-10-22	11:00 AM	Matrix	TW	Temperat	ure on Rece	eipt 10			
Date/Time on Test	2024-10-22	4:45 PM								
Analyses		Result		<u>Units</u>	RDL					
Coliforms, Total		less tha	an 1	CFU/100mL	1					
Verified E.coli		less tha	an 1	CFU/100mL	1					
Sample ID NCCS 5	570 Johnstone Rd					Samp	le# 2			
Date/Time Sampled	2024-10-22	11:00 AM	Matrix	TW	Temperat	ure on Rece	eipt 11			
Date/Time on Test	2024-10-22	4:50 PM								
Analyses		Result		<u>Units</u>	RDL					
Coliforms, Total		less tha	an 1	CFU/100mL	1					
Verified E.coli		less tha	an 1	CFU/100mL	1					
Glossary of Terms										
Less than 1				ept under circumstanc dilutions.	es where the det	tection limit i	s higher due to			
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 wate									
RDL	Reportable Detection Limit									

References



Passmore Laborato	Report# Filename	7324 241008AD.pdf								
			ANALYTI	CAL RESULTS						
Sample ID Main .	let					Samp	le# 1			
Date/Time Sampled	2024-10-08	11:00 AM	Matrix	TW	Tempera	ature on Rece	eipt 10			
Date/Time on Test	2024-10-08	4:35 PM								
Analyses		Result		Units	RDL					
Coliforms, Total		less tha	an 1	CFU/100mL	1					
Verified E.coli		less tha	an 1	CFU/100mL	1					
Sample ID NCCS	570 Johnstone Rd					Samp	le# 2			
Date/Time Sampled	2024-10-08	11:00 AM	Matrix	TW	Tempera	ature on Rece	eipt 12			
Date/Time on Test	2024-10-08	4:40 PM								
Analyses		Result		Units	RDL					
Coliforms, Total		less tha	an 1	CFU/100mL	1					
Verified E.coli		less tha	an 1	CFU/100mL	1					
Glossary of Terms	2									
	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 Un	its per 100 mill	iliters							
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water									
RDL	Reportable Detection									

References



Suite 304-625 Front Street Nelson, BC | V1L 4B6 www.aquadiversities.com

Appendix B Operator Log Sheet

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Suite 304-625 Front Street Nelson, BC | V1L 4B6 www.aquadiversities.com

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	
YY/MM/DD	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
10/6/2024	8:00	(= ==)	11.00	12.00	0.69	0.69	-		-		-	-	remote monitoring		OH
10/7/2024															
10/8/2024	1:00		11.00	12.00	0.84	0.62		-	-	0.68	0.52	73739	took microbac samples, tested north shore, fill isaac ch	21 clousy	ОН
10/9/2024															-
10/10/2024	11:00		11.00	12.00	0.74	0.64	-	-	-	0.53	0.51	74152	tested north shore	15 cloudy	OH
10/11/2024															
10/12/2024			11.00	12.00	0.65	0.65		-		-	-	74660	remote monitoring		OH
10/13/2024															
10/14/2024															
10/15/2024	11:00		11.00	12.00	0.68	0.73		-	-	0.83	0.68	15180	tested north shore	13 cloudy	ОН
10/16/2024															
10/17/2024	9:30		11	12	0.66	0.63	-	-	-	0.79	0.54	75567	tested north shore, added 1 carboy of chlorine to reser	4 cloudy	OH
10/18/2024															
10/19/2024	8:00		11	12	0.62	0.8						76085	remote monitoring		OH
10/20/2024															
10/21/2024															
10/22/2024	11:30		11	12	0.64	0.71	-	-	-	0.57	0.33	76593	took microbac samples, tested north shore	7 sunny	OH
10/23/2024															
10/24/2024	1:00		11	12	0.7	0.7	-	-	-	0.64	0.53	77003	Tested north shore, added 1 carboy of chlorine to reser	6 cloudy	OH
10/25/2024															
10/26/2024	8:00		11	12	0.44	0.51		-	-	-	-	-	remote monitoring		OH
10/27/2024															
10/28/2024															
10/29/2024	10:00		11	12	0.51	0.66	-	-		0.36	0.59	77980	Tested north shore, brought 3 carboys to isaac, cleaned	4 sunny	OH
10/30/2024															
10/31/2024	3:00		11	12	0.47	0.79	-	-	-	0.56	0.53	78305	Tested north shore, added 2 carboys of chlorine to the	5 rain	OH
Reading of flow	w meter for S	Sunny Side tra	iler court (to b	e recorded or	nce a month)	42313		Date:	10/1/2024						