

North Shore Water Utility Nelson Ltd. Monthly Report

Fo: Pouria Mojtahedi, Large Water Systems Environmental Health Officer, Interior Health Authority

From: Aqua Diversities Waterworks Inc.

Date: November 4, 2022

Re: Monthly Report for North Shore Water Utility – October 2022

This document includes the following items as part of the monthly report for the North Shore Water Utility Nelson Ltd. (NSWU):

- 1. Daily Water Consumption
- 2. Microbiological Test Results
- 3. Operator Log Sheets and Water Quality Events
- 4. Major Operational Events
- 5. Records of Customer Feedback and Response

The 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. Daily Water Consumption

Total water consumption in October was 4,290 m³; average daily consumption was 138.4 m³/day. The average flow was 5.76 m³/hr.

2. 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. 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 0.20 mg/L across the distribution system.

See **Appendix B** for Operator Log Sheets.

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NSWU MR Oct 2022.docx



4. Major Operational Events

No major operational 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. Records of Customer Feedback and Response

There was no record of customer feedback for the month of October

Report Reviewed by:

Nathan Ward, EOCP Operator 4130







Appendix A Laboratory Results



ANALYTICAL RESULTS									
Sample ID 5383	ohnstone Rd				s	ample #	1		
Date/Time Sample	d 2022-10-18	1:30 PM N	latrix TW		Temperature on	Receipt	14		
Date/Time on Test	2022-10-18	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 Main	Jet				S	ample #	2		
Date/Time Sample	d 2022-10-18	1:45 PM N	Matrix TW		Temperature on	Receipt	13		
Date/Time on Test	2022-10-18	4:30 PM							
Analyses		Result		Units	RDL.				
Coliforms, Total		less than :	1	CFU/100mL	1				
Verified E.coli		less than :	1	CFU/100mL	1				
Glossary of Term	<u>s</u>								
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								

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ANALYTICAL RESULTS									
Sample ID 538 J	ohnstone Rd			Sample #	1				
Date/Time Sample	2022-10-04	11:30 AM Matri	ix TW	Temperature on Receipt	17				
Date/Time on Test	2022-10-04	5:30 PM							
Analyses		Result	Units	RDL					
Coliforms, Total		less than 1	CFU/100mL	1					
Verified E.coli		less than 1	CFU/100mL	1					
Sample ID Main	Jet			Sample #	2				
Date/Time Sample	2022-10-04	11:30 AM Matri	ix TW	Temperature on Receipt	18				
Date/Time on Test	2022-10-04	5:30 PM							
Analyses		Result	Units	RDL					
Coliforms, Total		less than 1	CFU/100mL	1					
Verified E.coli		less than 1	CFU/100mL	1					
Glossary of Term	<u>s</u>								
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.								
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Appendix B Operator Log

