

### North Shore Water Utility Nelson Ltd. Monthly Report

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

From: Aqua Diversities Inc.

Date: April 16<sup>th</sup>, 2023

Re: Monthly Report for North Shore Water Utility - March 2023

This document includes the following items as part of 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 March was 5,358.18 m³; average daily consumption was 172.84m³/day. The average flow was 7.20 m³/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 March, chlorine residuals were maintained above 0.5 mg/L across the distribution system.

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



#### 4.0 Major Operational Events

On March 21st, a Water Quality Advisory was posted due to seasonal turbidity ≥1 NTU.

The IHA Health Officer was notified of this action. The NSWU website was updated, a text alert notification to subscribers was sent out and community signage was posted.

There were no other major events to report for the month of March.

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 no customer inquiries | in the | month ( | of March. |
|----------------------------------|--------|---------|-----------|
|----------------------------------|--------|---------|-----------|

Report Reviewed by:

Nicole Ward, BSc.P.Ag. Project Manager



## Appendix A Laboratory Results

| LABORATORY         | LTD.       |                       |        |              |                       | 5483<br>230314AD.pdf |
|--------------------|------------|-----------------------|--------|--------------|-----------------------|----------------------|
|                    |            |                       | ANALYT | ICAL RESULTS |                       |                      |
| Sample ID Main Jet |            |                       |        |              | Sample                | # 1                  |
| Date/Time Sampled  | 2023-03-14 | 12:00 PM              | Matrix | TW           | Temperature on Receip | ot 18                |
| Date/Time on Test  | 2023-03-14 | 4:55 PM               |        |              |                       |                      |
| <u>Analyses</u>    |            | Result                |        | Units        | RDL                   |                      |
| Coliforms, Total   |            | less tha              | an 1   | CFU/100mL    | 1                     |                      |
| Verified E.coli    |            | less than 1 CFU/100mL |        | 1            |                       |                      |
| Sample ID 538 John | nstone Rd  |                       |        |              | Sample                | # 2                  |
| Date/Time Sampled  | 2023-03-14 | 12:00 PM              | Matrix | TW           | Temperature on Receip | ot 19                |
| Date/Time on Test  | 2023-03-14 | 5:00 PM               |        |              |                       |                      |
| Analyses           |            | Result                |        | Units        | RDL                   |                      |
| Coliforms, Total   |            | less tha              | n 1    | CFU/100mL    | 1                     |                      |
| Verified E.coli    |            | less tha              |        | CFU/100mL    | 1                     |                      |



| PASSMORE LABORATOR | Y LTD.     |                       |        |              | 1,500 TO 100 TO | 519<br>30328AD.pdf |
|--------------------|------------|-----------------------|--------|--------------|---|--------------------|
|                    |            |                       | ANALYT | ICAL RESULTS |   |                    |
| Sample ID Main Jet |            |                       |        | Sample :     | # 1   |                    |
| Date/Time Sampled  | 2023-03-28 | 12:00 PM              | Matrix | TW           | Temperature on Receipt  | t 9                |
| Date/Time on Test  | 2023-03-28 | 4:35 PM               |        |              |   |                    |
| Analyses           |            | Result                |        | Units        | RDL   |                    |
| Coliforms, Total   |            | less than 1           |        | CFU/100mL    | 1   |                    |
| Verified E.coli    |            | less than 1 CFU/100mL |        | 1            |   |                    |
| Sample ID 538 Joh  | nstone Rd  |                       |        |              | Sample :  | # 2                |
| Date/Time Sampled  | 2023-03-28 | 12:00 PM              | Matrix | TW           | Temperature on Receipt  | t 7                |
| Date/Time on Test  | 2023-03-28 | 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   |                    |



# Appendix B Operator Log Sheet

