



**2022**

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# **DRINKING WATER QUALITY**

**FINAL REPORT | JUNE 2023**

**ANNUAL  
REPORT**

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*westvancouver*

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## **TABLE OF CONTENTS**

|   |           |
|---|-----------|
| <b>EXECUTIVE SUMMARY</b>  | <b>1</b>  |
| <b>1.0 INTRODUCTION</b>   | <b>2</b>  |
| <b>2.0 GENERAL DESCRIPTION</b>  | <b>2</b>  |
| <b>3.0 SOURCE WATER WATERSHEDS</b>  | <b>2</b>  |
| 3.1 General   | 2         |
| 3.2 Eagle Lake Treatment Plant  | 3         |
| 3.2.1 Eagle Lake Treatment Plant  | 3         |
| Bypass and Optimization   |           |
| 3.3 Montizambert Treatment Plant  | 4         |
| 3.3.1 Montizambert Water Treatment Plant Bypass                                   | 4         |
| 3.4 Metro Vancouver   | 4         |
| 3.5 Challenges  | 5         |
| <b>4.0 REGULATIONS AND STANDARDS FOR SOURCE WATER AND THE DISTRIBUTION SYSTEM</b> | <b>5</b>  |
| 4.1 Microbiological Parameters  | 5         |
| 4.2 Physical Parameters   | 6         |
| 4.2.1 Turbidity   | 6         |
| 4.2.2 Temperature   | 6         |
| 4.2.3 Colour  | 7         |
| 4.3 Inorganic and Organic Chemical Parameters                                     | 7         |
| 4.3.1 Disinfection By-Products  | 7         |
| 4.3.2 pH  | 7         |
| 4.3.3 Metals  | 7         |
| <b>5.0 TESTING, SAMPLE ANALYSIS AND RESULTS</b>                                   | <b>8</b>  |
| 5.1 Sample Analysis Results – Source Water  | 8         |
| 5.2 Sample Analysis Results – Distribution System                                 | 9         |
| 5.3 Distribution System – Water Main Replacement                                  | 11        |
| <b>6.0 PUBLIC NOTIFICATION</b>  | <b>12</b> |
| 6.1 Drinking Water Advisory/Boil Water Advisory                                   | 12        |
| 6.2 General Drinking Water Quality Advisory                                       | 12        |
| <b>7.0 OPERATOR QUALIFICATIONS AND TRAINING</b>                                   | <b>12</b> |
| 7.1 Operator Qualifications   | 12        |
| <b>8.0 EMERGENCY RESPONSE PLAN</b>  | <b>13</b> |
| 8.1 E. coli Positive Response   | 13        |
| 8.2 Chemical or Biological Contamination Response                                 | 14        |
| 8.3 Turbidity Response  | 14        |
| 8.4 Response to Interruption of Secondary Disinfection                            | 15        |
| <b>9.0 CONCLUSION</b>   | <b>16</b> |

**APPENDIX A**

1. Map of Water System Sampling Locations
2. Water Sampling Locations by Address

**APPENDIX B**

1. Source Water Quality – Eagle Lake
2. Source Water Quality – Montizambert Creek
3. Source Water Chemistry

**APPENDIX C**

1. Semi Annual Metals Monitoring Results
2. Disinfection By-Products - Quarterly Averages
3. Water Sampling Results
4. Total Organic Carbon Sample Results
5. Cryptosporidium & Giardia Sample Results
6. VCH Heath Message – Metals in Drinking Water

## **EXECUTIVE SUMMARY**

This report summarizes the District of West Vancouver's water quality program for 2022. The program operates under the protocol developed in the Water Quality and Reporting Plan for Metro Vancouver and Member Municipalities; where objectives and monitoring results are in accordance with the *Guidelines for Canadian Drinking Water Quality* (GCDWQ).

The District's water system treats and distributes potable water supplied from two local sources, namely Eagle Lake and Montizambert Creek, and distributes treated water received from Metro Vancouver (Capilano and/or Seymour watershed sources). Detailed information regarding the Metro Vancouver supply is available at <http://www.metrovancouver.org/services/water>.

Raw water from both Eagle Lake and Montizambert Creek sources were analyzed for bacteriological, physical, and chemical parameters. Bacteriological testing in 2022 indicates the source waters have a low presence of Escherichia coli (E. coli), giardia, and cryptosporidium with elevated levels in some cases.

Water throughout the distribution system was tested for bacteriological, physical, and chemical parameters. 574 samples were analyzed in 2022. All water sample results reported a turbidity of less than 5 NTU and a chlorine residual of no less than 0.2mg/L chlorine residual. Two samples had HPC counts that exceeded 500 CFU/mL. Elevated HPC is not an indication for water safety concerns but is an operational indicator of possible stagnation and potential degradation of water quality. Where HPC results exceeded 500 CFU/mL the water mains were flushed, and the turbidity readings and chlorine residuals were analyzed. The new samples show turbidity readings and chlorine residuals were well within the limits set by the GCDWQ. Additional monthly, quarterly and semi-annually testing for disinfection by-products, metals, and total organic carbons were within the Canadian Guidelines.

The report also contains Emergency Response Plans that outline the steps to take related to elevated E. coli, contamination, turbidity, and loss of disinfection.

## **1.0 INTRODUCTION**

This report summarizes the District of West Vancouver's water quality program for 2022. The purpose is to detail the municipality's efforts in maintaining high quality drinking water and to provide residents with the results of the sampling and analysis program.

Water suppliers in British Columbia are regulated by the Drinking Water Protection Act and the Drinking Water Protection Regulation (DWPR). The *Drinking Water Quality Annual Report* is a requirement of the Vancouver Coastal Health Authority (VCHA) in order to receive annual operating permits and is reviewed by the Medical Health Officer (MHO) for the North Shore. As requested by the MHO, this report shall be made public via a prominent web site posting at <http://www.westvancouver.ca>.

The District's water quality program is in accordance with the *Water Quality Monitoring and Reporting Plan for the GVRD and Member Municipalities, May 2000*, which was developed under the authority and direction of the Regional MHOs.

## **2.0 GENERAL DESCRIPTION**

The District of West Vancouver operates two local water supplies and a distribution system consisting of a network of intakes, two treatment plants, reservoirs, chlorination stations, pressure reducing valve (PRV) stations, pumps, hydrants and mains. The system is required to adequately receive, store, and transport potable water to all users in West Vancouver. Key facilities are connected by a telemetry system (SCADA) to a central computer, which monitors and identifies erroneous operating conditions and communicates to key personnel 24 hours a day, seven days a week.

## **3.0 SOURCE WATER WATERSHEDS**

### **3.1 General**

The municipality obtains water from three sources:

- Eagle Lake
- Montizambert Creek
- Metro Vancouver's Capilano / Seymour Watersheds.

From Capilano River to Horseshoe Bay, the water distribution system is fed by both Eagle Lake and Metro Vancouver source waters. While the distribution area for each source varies seasonally, in general, Eagle Lake water is received below the Upper Levels Highway, west of 29<sup>th</sup> Street and above the Upper Levels Highway east to the Chartwell neighbourhood. The municipality continues to optimize the use of the Eagle Lake source whenever supplies permit in order to reduce the purchase of bulk water from Metro Vancouver.

North of Horseshoe Bay at the northern municipal boundary, the Sunset Highlands neighbourhood is serviced by the Montizambert Creek source, except for the Seascapes multi-family development, which utilizes private wells.

### **3.2 Eagle Lake Treatment Plant**

Located above Cypress Falls Park, Eagle Lake source water flows by gravity through intake screens into the Eagle Lake treatment plant. The Eagle Lake facility is a Level 4 certified Suez membrane treatment plant and is compliant with the 4-3-2-1 multi-barrier approach as specified in the GCDWQ to ensure safe drinking water as mandated by the Health Authorities of British Columbia. When the lake level drops below the elevation of the intake screens, floating pumps are required to pump water from the lower lake levels to the treatment plant. This typically occurs during the late summer months.

Once the water enters the treatment facility, it passes through an automatic self-cleaning bar screen to remove any floating debris. The water is pH adjusted and coagulant is added to optimize the membrane filtration process. The coagulated water is then pumped and filtered through submerged membrane filters. Once filtered, sodium hypochlorite is added for disinfection. The fully treated water is stored in concrete reservoirs ready for distribution.

In an effort to ensure treatment objectives are being met, one quarter of the ultrafiltration hollow fiber membranes were replaced at Eagle Lake in 2022.

#### **3.2.1 Eagle Lake Water Treatment Plant Bypass and Optimization**

In the event of an operational emergency, the Eagle Lake plant may need to be bypassed in order to maintain water supply to the District's residents and for the provision of fire protection. In the event of a bypass, the source water will continue to be disinfected with sodium hypochlorite though at a higher dose to compensate for the loss of the filtration process. The chlorine contact time will be maintained during a bypass event.

All EOCP certified distribution and treatment staff are familiar with the details of the bypass procedure. The details of this procedure have been provided separately in the Eagle Lake Water Treatment Plant Emergency Response and Contingency Plan to VCHA.

The Eagle Lake Treatment Plant was not bypassed in 2022.

Eagle Lake optimization allows the District to increase the supply of Eagle Lake water into the distribution system during non-peak periods. The District SCADA system is used to automatically monitor and prompt any required changes to the system based on plant conditions such as clearwell levels and system demand. Standby personnel monitor the Eagle Lake Water Treatment Plant operation 24/7 and VCH is informed if there are any changes to operational procedures.

### **3.3 Montizambert Treatment Plant**

Located north of Horseshoe Bay, the Montizambert Treatment Plant is a Level 3 classified plant commissioned in September 2011. It is a Pall Membrane treatment plant compliant with the 4-3-2-1 multi-barrier approach as specified in the GCDWQ to ensure safe drinking water as mandated by the Health Authorities of British Columbia.

The source water from Montizambert Creek passes through a gravel filtration intake and a settling tank before entering the treatment facility. Coagulant is added once the water enters the plant and is mixed and pumped through the membrane filters. After the filtration process, sodium hypochlorite is added for disinfection and the water is stored in a concrete clearwell ready to be distributed.

#### **3.3.1 Montizambert Water Treatment Plant Bypass**

In the event of an operational emergency, the Montizambert Water Treatment Plant may need to be bypassed to maintain water supply to residents and for the provision of fire protection. The plant is capable of two different types of bypass, one with cartridge filters (3 microns nominal) and the second without. The use of cartridge filters will be determined on a case-by-case basis. For either procedure, the water will continue to be disinfected with sodium hypochlorite and adjusted to an appropriate dosage rate depending on the bypass process in place. The chlorine contact time is maintained during a bypass event.

All EOCP certified distribution and treatment staff are familiar with the details of the bypass procedure. This procedure has been provided separately in the Montizambert Creek Water Treatment Plant Emergency Response and Contingency plan to VCHA.

The Montizambert Water Treatment Plant was not bypassed in 2022.

### **3.4 Metro Vancouver**

Bulk treated water purchased by the District from Metro Vancouver is supplied from the Seymour and Capilano watersheds. This water enters the municipality's distribution system at five locations:

- Glenmore Dr. between Morven Dr. and Deep Dene Road
- Mathers Avenue and Capilano Road
- Keith Road and Upper Levels Highway
- Marine Drive and Capilano Road
- Capilano Road and Welch Street

### **3.5 Challenges**

Challenges to the quality and quantity of the source water include:

- maintaining a balance between public access for recreation (e.g. portions of the Baden Powell Trail above Eagle Lake) and security of the watershed for protection of drinking water quality
- physical disturbances in watersheds such as soil erosion into creeks, which lead to turbidity spikes
- vulnerability of open water sources to contamination from animal and human activity;
- maintaining creek flow supplementation for fish habitat during the summer months, when Eagle Lake level is low
- low flow conditions in Montizambert Creek during drier summer months
- climate change, heavy rainfall causing turbidity issues in winter months and potential for drought conditions in the summer months
- aging dam and intake infrastructure

## **4.0 REGULATIONS AND STANDARDS FOR SOURCE WATER AND THE DISTRIBUTION SYSTEM**

Both source waters and water within the distribution system are tested for microbiological, chemical, and physical parameters. For the purposes of the municipality's water quality sampling program, the locations monitoring Metro water are treated as 'distribution' sites and not 'source' sites although some Metro sample points are located close to the entry points to the municipal distribution system.

The Drinking Water Protection Regulation (DWPR) requires 1 sample/1000 residents on a monthly basis for cities with a population between 5,000 and 90,000 residents. During 2022, the District of West Vancouver had approximately 45,000 residents, which translates to a minimum of 540 samples required annually. The total number of samples collected by the District during 2022 was 574, which exceeds the requirements of the DWPR for the number of stations and samples required.

Further to the information outlined below, full details outlining the health-based guidelines for water quality in Canada, established on behalf of the Federal-Provincial-Territorial Committee on Drinking Water, is available on Health Canada's website.

### **4.1 Microbiological Parameters**

Under the Guidelines for Canadian Drinking Water Quality (GCDWQ) the most vital guidelines are those dealing with microbiological contaminants. The District of West Vancouver follows the guidelines by taking the required samples at the regulated times.

Samples are taken monthly at the Montizambert and Eagle Lake sources for Cryptosporidium and Giardia. The treatment goal for these two parameters is a minimum of 3-log (99.9%) removal.

Escherichia coli (E. coli) samples are taken bi-weekly at the source and weekly throughout the distribution system. E. coli is an indicator of microbiological safety and the GCDWQ maximum allowable concentration within the distribution system is none detected per 100 mL sample. Heterotrophic Plate Count (HPC) is tested bi-weekly at the source as well as weekly throughout the distribution system. Although it is naturally occurring and has no limits under the guideline, it is a good monitoring tool for general bacteriological water quality.

Total Coliforms are sampled bi-weekly at the source and weekly throughout the distribution system. Total coliforms are not used as indicators of potential health effects from pathogenic microorganisms; instead, they are used as an operational tool to determine how well the drinking water treatment system is operating. When sampled in the distribution system, the GCDWQ states that no consecutive samples shall contain total coliform and that no more than 10% of samples taken contain total coliform. Total coliform detected in the distribution system can be an indication of re-growth of bacteria in distribution biofilms or intrusion of untreated water.

IG MicroMed Environmental Inc. conducted the analysis for Giardia and Cryptosporidium and Metro Vancouver Laboratories conducted analysis for TOC, Total Coliform, E. coli and HPC.

## **4.2 Physical Parameters**

### **4.2.1 Turbidity**

Turbidity describes the amount of suspended solids in water measured in nephelometric turbidity units (NTU). The presence of turbidity can have significant effects on both the microbiological quality of water and the detection of the bacteria and viruses. The target turbidity for treated water from the Eagle Lake and Montizambert Water Treatment Plants is 0.1 NTU or less in at least 99% of measurements per operational filter period or per month. Measurements greater than 0.1 NTU for a period greater than 15 minutes from an individual membrane unit will trigger a membrane integrity test and investigation. To ensure good operation of the distribution system, the Guidelines for Canadian Drinking Water Quality recommends turbidity levels of 1.0 NTU or less. At levels greater than 5.0 NTU, cloudiness becomes apparent.

### **4.2.2 Temperature**

The aesthetic guideline for temperature is 15°C. Typically, the temperature of drinking water for both the source water and the distribution system rises during summer months. District staff appreciate that higher temperatures in the distribution system can affect chlorine residuals and can contribute to bacterial re-growth. Tests are completed on a regular basis throughout the distribution system to ensure acceptable water quality.

### **4.2.3 Colour**

The physical parameter of colour is tested together with chemical parameters for Eagle Lake and Montizambert source water. With respect to colour, the GCDWQ specifies an aesthetic objective of less than 15 true colour units (TCU) for treated water.

## **4.3 Inorganic and Organic Chemical Parameters**

Testing of source waters for chemical parameters, including bromate, bromide, chlorate, chloride, and sodium is conducted semi-annually at both Eagle Lake and Montizambert Creek.

In the distribution system, chemical parameters tested include chlorine residual, pH, and disinfection by-products. Chlorine residual is measured at all sampling sites when bacteriological samples are collected; additionally, there are several online chlorine analyzers for continuous monitoring throughout the distribution system.

### **4.3.1 Disinfection By-Products**

Disinfection by-products are formed when chlorine reacts with natural organic matter. The two main disinfection by-products of concern when disinfecting with sodium hypochlorite are trihalomethanes (THMs) and haloacetic acids (HAAs). THMs and HAAs are included in the GCDWQ with maximum acceptable concentration (MAC) of 0.1 mg/l and 0.08 mg/l respectively.

### **4.3.2 pH**

The water's scale of acidity or alkalinity is measured in potential of hydrogen (pH). The GCDWQ recommends a pH in the range of 7.0 – 10.5 as a treatment objective.

It is recognized that acidic water will accelerate the corrosion of metal pipes as well as hinder the treatment process and the pH is adjusted to the 7.5 - 9.0 range for the Eagle Lake supply. Sodium hydroxide is used to achieve this objective. No adjustment is made to the Montizambert supply.

### **4.3.3 Metals**

The District's water quality sampling and monitoring program includes semi-annual testing at four locations within the distribution system for a variety of metals. See appendix C-1 for results.

In some homes, where older plumbing and fixtures are present, small amounts of lead may be present due to the corrosion of metals. In these cases, Vancouver Coastal Health recommends running tap water to flush any lead originating from household plumbing or fixtures. See appendix C-6.

## 5.0 TESTING, SAMPLE ANALYSIS AND RESULTS

Microbiological testing was conducted at a total of 39 sampling sites including the Eagle Lake and Montizambert Creek source locations. The monitoring protocol dictates that 12 to 13 sites per week are sampled according to the following breakdown: 10% source water, 10% low flow/dead end locations, 40% medium flow locations, and 40% high flow locations. Table 1 outlines the District's water sampling calendar.

**Table 1: Water Sampling Calendar**

| Water Type                                  | Parameter                               | Frequency                  |
|---|---|----------------------------|
| Sources<br>Eagle Lake<br>Montizambert Creek | Microbiological, Turbidity, Temperature | Bi-weekly                  |
|   | Giardia, Cryptosporidium                | Monthly                    |
|   | Total Organic Carbon                    | Monthly                    |
|   | Chemical, physical list                 | Semi-annually              |
| Distribution System                         | Microbiological, Turbidity, Temperature | Weekly (not at every site) |
|   | HAA's, THM's, pH                        | Quarterly                  |
|   | Metals                                  | Semi-annually              |

### 5.1 Sample Analysis – Source Water (untreated)

At Eagle Lake, 24 bi-weekly source water samples were tested. 22 samples had a most probable number (MPN) of less than 1 per 100 mL, and 2 samples had a presence of E. coli ranging from 1 to 10 MPN/100mLs. Testing for total coliforms had results ranging from 4 to 326 MPN/100mLs in the raw, untreated source water.

**Table 2A: Eagle Lake Source Water Microbiological and Physical Parameters**

| Sample Name | Number of Samples | Ecoli MPN/100mLs |      |      | HPC CFU/mL |      |      | Temperature °C |      |      | Total Coliform MPN/100mLs |      |      | Turbidity NTU |      |      |
|-------------|-------------------|------------------|------|------|------------|------|------|----------------|------|------|---------------------------|------|------|---------------|------|------|
|             |                   | Min.             | Max. | Avg. | Min.       | Max. | Avg. | Min.           | Max. | Avg. | Min.                      | Max. | Avg. | Min.          | Max. | Avg. |
| WEAG-LK1    | 25                | <1               | 10   | <1   | 64         | 770  | 244  | 4              | 22   | 10   | 4                         | 326  | 43   | 0.19          | 1.1  | 0.37 |

At Montizambert Creek, 24 bi-weekly source water samples were tested. 20 samples had a most probable number (MPN) of less than 1 per 100 mL and four samples had a presence of E. coli ranging from 1 to 22 MPN/100mLs. Testing for total coliforms had results ranging from 2 to 461 MPN/100mLs in the raw, untreated source water.

**Table 2B: Montizambert Creek Source Water Microbiological and Physical Parameters**

| Sample Name | Number of Samples | Ecoli MPN/100mLs |      |      | HPC CFU/mL |      |      | Temperature °C |      |      | Total Coliform MPN/100mLs |      |      | Turbidity NTU |      |      |
|-------------|-------------------|------------------|------|------|------------|------|------|----------------|------|------|---------------------------|------|------|---------------|------|------|
|             |                   | Min.             | Max. | Avg. | Min.       | Max. | Avg. | Min.           | Max. | Avg. | Min.                      | Max. | Avg. | Min.          | Max. | Avg. |
| WMZ-CK1     | 24                | <1               | 22   | 1.2  | 80         | 1400 | 302  | 4              | 15   | 10   | 2                         | 461  | 124  | 0.31          | 4.6  | 1.14 |

Giardia and Cryptosporidium testing was conducted monthly for both sources. Results shown in appendix C indicate the presence of Giardia and Cryptosporidium in both water sources at multiple times through the year.

Source water chemistry testing is conducted at Eagle Lake and Montizambert on a semi-annual basis. Source water chemistry testing results are shown in Appendix B along with a full range of other chemicals parameters which are not included in the guidelines but are still monitored by the District.

## **5.2 Sample Analysis – Distribution System**

A map of the District's water distribution system with sampling locations and an address list for the sampling sites is included in Appendix A. The naming convention for the sample number and sample bottle reflects a reference to either Metro Vancouver (WVR), Eagle Lake (WEAG) or Montizambert Creek (WMZ) as the water source. Depending on the hydraulic conditions, water may be provided from either Eagle Lake or Metro Vancouver for some locations.

574 distribution system samples were analyzed in 2022. All water sample results reported no less than 0.2mg/L chlorine residual and turbidity of no more than 5 NTU. There were no elevated samples for E. coli and one sample had a slightly elevated Total Coliforms count. Section 8.1 of this report outlines the response procedures in the event of a positive E. coli test result.

Two samples had HPC counts that exceeded 500 CFU/mL. Elevated HPC is not an indication for water safety concerns but is an operational indicator of possible stagnation and potential degradation of water quality. Where HPC results exceeded 500 CFU/mL the water mains were flushed, and the turbidity readings and chlorine residuals were analyzed. The new samples show turbidity readings and chlorine residuals were well within the limits set by the GCDWQ.

Table 3 and Table 4 below summarize the results by the sampling sites.

**Table 3: Distribution System Microbiological and Physical Parameters (WVR Sites)**

| Sample Site | Parameter    | Chlorine Free mg/L    |      |      | Temperature °C     |      |      | HPC CFU/mL |      | Total Coliform CFU/100mLs | Ecoli CFU/100mLs | Turbidity NTU        |      |      |
|-------------|--------------|-----------------------|------|------|--------------------|------|------|------------|------|---------------------------|------------------|----------------------|------|------|
|             | Guideline    | No less than 0.2 mg/L |      |      | No more than 15 °C |      |      | None       |      | None                      | None             | No more than 5.0 NTU |      |      |
|             | # of Samples | Min.                  | Max. | Avg. | Min.               | Max. | Avg. | Min.       | Max. | Result                    | Result           | Min.                 | Max. | Avg. |
| WVR-711     | 13           | 0.49                  | 0.96 | 0.71 | 4                  | 18   | 9.8  | <2         | 18   | <1                        | <1               | 0.08                 | 0.24 | 0.13 |
| WVR-712     | 13           | 0.25                  | 0.73 | 0.46 | 4                  | 16   | 9.6  | <2         | 4    | <1                        | <1               | 0.10                 | 0.25 | 0.15 |
| WVR-718     | 11           | 0.43                  | 0.76 | 0.56 | 6                  | 20   | 12.6 | <2         | 20   | <1                        | <1               | 0.11                 | 0.23 | 0.14 |
| WVR-761     | 12           | 0.27                  | 0.78 | 0.48 | 5                  | 20   | 12.3 | <2         | 86   | <1                        | <1               | 0.12                 | 0.61 | 0.25 |
| WVR-764     | 12           | 0.66                  | 1.10 | 0.81 | 5                  | 17   | 11.0 | <2         | 2    | <1                        | <1               | 0.11                 | 0.20 | 0.14 |
| WVR-790     | 26           | 0.56                  | 0.92 | 0.71 | 4                  | 17   | 10.2 | <2         | 10   | <1                        | <1               | 0.11                 | 0.21 | 0.14 |
| WVR-791     | 14           | 0.50                  | 0.93 | 0.76 | 4                  | 16   | 9.2  | <2         | 4    | <1                        | <1               | 0.10                 | 0.54 | 0.22 |
| WVR-792     | 26           | 0.46                  | 0.90 | 0.65 | 4                  | 16   | 10.1 | <2         | 8    | <1                        | <1               | 0.12                 | 0.31 | 0.17 |
| WVR-793     | 14           | 0.28                  | 0.73 | 0.49 | 4                  | 16   | 9.7  | <2         | 140  | <1                        | <1               | 0.10                 | 0.20 | 0.14 |
| WVR-794     | 14           | 0.32                  | 0.93 | 0.65 | 4                  | 17   | 10.1 | <2         | 16   | <1                        | <1               | 0.10                 | 0.27 | 0.17 |
| WVR-795     | 14           | 0.33                  | 0.95 | 0.64 | 4                  | 17   | 10.2 | <2         | 78   | <1                        | <1               | 0.10                 | 0.76 | 0.25 |
| WVR-796     | 26           | 0.48                  | 0.96 | 0.73 | 4                  | 18   | 10.6 | <2         | 24   | <1                        | <1               | 0.10                 | 0.28 | 0.15 |
| WVR-797     | 12           | 0.32                  | 0.77 | 0.60 | 5                  | 18   | 11.4 | <2         | 2000 | <1                        | <1               | 0.11                 | 0.45 | 0.22 |

**Table 4: Distribution System Microbiological and Physical Parameters (WEAG and WMZ Sites)**

| Sample Site | Parameter    | Chlorine Free mg/L    |      |      | Temperature °C     |      |      | HPC CFU/mL |      | Total Coliform CFU/100mLs | Ecoli CFU/100mLs | Turbidity NTU        |      |      |
|-------------|--------------|-----------------------|------|------|--------------------|------|------|------------|------|---------------------------|------------------|----------------------|------|------|
|             | Guideline    | No less than 0.2 mg/L |      |      | No more than 15 °C |      |      | None       |      | None                      | None             | No more than 5.0 NTU |      |      |
|             | # of Samples | Min.                  | Max. | Avg. | Min.               | Max. | Avg. | Min.       | Max. | Result                    | Result           | Min.                 | Max. | Avg. |
| WEAG-710    | 11           | 0.86                  | 1.53 | 1.22 | 4                  | 21   | 11.5 | <2         | 14   | <1                        | <1               | 0.06                 | 0.16 | 0.10 |
| WEAG-716    | 24           | 0.48                  | 1.07 | 0.77 | 4                  | 22   | 12.4 | <2         | 32   | <1                        | <1               | 0.09                 | 0.27 | 0.15 |
| WEAG-719    | 24           | 0.36                  | 1.26 | 0.79 | 4                  | 22   | 11.0 | <2         | 280  | 1                         | <1               | 0.10                 | 0.88 | 0.30 |
| WEAG-765    | 13           | 0.7                   | 1.13 | 0.98 | 4                  | 23   | 11.8 | <2         | 130  | <1                        | <1               | 0.09                 | 0.29 | 0.18 |
| WEAG-768    | 11           | 0.64                  | 1.22 | 0.93 | 5                  | 17   | 11.0 | <2         | 70   | <1                        | <1               | 0.07                 | 0.16 | 0.10 |
| WEAG-769    | 11           | 0.47                  | 0.98 | 0.68 | 6                  | 20   | 11.9 | <2         | 120  | <1                        | <1               | 0.10                 | 0.57 | 0.20 |
| WEAG-770    | 24           | 0.4                   | 1.06 | 0.63 | 4                  | 19   | 11.5 | <2         | 18   | <1                        | <1               | 0.11                 | 0.25 | 0.15 |
| WEAG-771    | 24           | 0.51                  | 1.12 | 0.81 | 4                  | 23   | 12.4 | <2         | 18   | <1                        | <1               | 0.08                 | 0.42 | 0.18 |
| WEAG-772    | 24           | 0.51                  | 1.17 | 0.88 | 4                  | 22   | 12.0 | <2         | 74   | <1                        | <1               | 0.07                 | 0.34 | 0.16 |
| WEAG-773    | 13           | 0.2                   | 0.56 | 0.44 | 4                  | 21   | 12.2 | <2         | 72   | <1                        | <1               | 0.10                 | 0.26 | 0.14 |
| WEAG-774    | 11           | 0.79                  | 1.28 | 0.97 | 6                  | 22   | 12.5 | <2         | 92   | <1                        | <1               | 0.07                 | 0.17 | 0.12 |
| WEAG-776    | 11           | 0.97                  | 1.37 | 1.09 | 5                  | 20   | 11.9 | <2         | 4    | <1                        | <1               | 0.06                 | 0.12 | 0.08 |
| WEAG-778    | 24           | 0.5                   | 1.14 | 0.94 | 4                  | 22   | 12.0 | <2         | 12   | <1                        | <1               | 0.09                 | 0.30 | 0.18 |
| WEAG-779    | 13           | 0.69                  | 1.05 | 0.86 | 4                  | 18   | 9.7  | <2         | 36   | <1                        | <1               | 0.06                 | 0.16 | 0.11 |
| WEAG-780    | 13           | 0.77                  | 1.33 | 1.11 | 4                  | 22   | 11.6 | <2         | 10   | <1                        | <1               | 0.08                 | 0.22 | 0.15 |
| WEAG-783    | 11           | 0.87                  | 1.3  | 1.05 | 5                  | 22   | 12.3 | <2         | 60   | <1                        | <1               | 0.07                 | 0.16 | 0.11 |
| WEAG-784    | 13           | 0.62                  | 1.01 | 0.86 | 4                  | 23   | 12.1 | <2         | 28   | <1                        | <1               | 0.11                 | 0.38 | 0.20 |
| WEAG-785    | 13           | 0.71                  | 1.26 | 0.99 | 4                  | 23   | 11.8 | <2         | 38   | <1                        | <1               | 0.09                 | 0.52 | 0.20 |
| WEAG-786    | 11           | 0.23                  | 1    | 0.62 | 5                  | 17   | 10.5 | <2         | 6    | <1                        | <1               | 0.09                 | 0.16 | 0.13 |
| WEAG-787    | 11           | 0.41                  | 0.97 | 0.67 | 5                  | 18   | 11.2 | <2         | 20   | <1                        | <1               | 0.08                 | 0.19 | 0.12 |
| WEAG-788    | 11           | 0.55                  | 0.96 | 0.75 | 5                  | 17   | 10.7 | <2         | 2    | <1                        | <1               | 0.07                 | 0.24 | 0.12 |
| WEAG-880    | 13           | 0.43                  | 1.1  | 0.74 | 4                  | 18   | 10.8 | <2         | 34   | <1                        | <1               | 0.10                 | 0.41 | 0.19 |
| WMZ-781     | 11           | 0.76                  | 1.35 | 1.19 | 6                  | 19   | 11.9 | <2         | <2   | <1                        | <1               | 0.08                 | 0.23 | 0.15 |
| WMZ-782     | 13           | 0.23                  | 1.46 | 1.15 | 4                  | 18   | 10.7 | <2         | 2    | <1                        | <1               | 0.11                 | 0.43 | 0.23 |

The semi-annual testing for metals within the distribution system are provided in Appendix C. All the sampling results were well within GCDWQ guidelines.

Disinfection by-products are formed when chlorine reacts with natural organic matters. The two main categories of disinfection by-products are trihalomethanes (THMs) and haloacetic acids (HAAs) which are monitored on a quarterly basis from 10 sample sites.

The test results are presented as a running quarterly average for total THMs and total HAAs in Appendix C. All the readings taken in 2022 are within normal levels.

The level of natural organic matter is typically characterized by measuring total organic carbon (TOC) in a laboratory. Organic carbons originate in water from partially dissolved organic matter such as algae, leaves, bark, wood and soil. These materials also cause a significant portion of the colour found in natural water sources. TOC levels are within expected levels.

A complete record of the water sampling results is in Appendix C.

### **5.3 Distribution System – Water Main Replacement**

An additional factor in water quality is the timely replacement of water mains. Factors related to capacity, flow characteristics and internal pipe condition can all improve water quality. The following table highlights the mains replaced in 2022 and lists the mains to be replaced in 2023.

| 2022 Water Main Construction                             | 2023 Planned Water Main Construction      |
|--|---|
| A: Headland Drive - 320m                                 | A: Keith Road: 58.8m                      |
| B: Caulfield Drive – 479m                                | B: Stone Crescent: 652m                   |
| C: St Andrews – 202m                                     | C: Duchess Avenue 12-15th: 605m           |
| D: 6200 block Marine Drive – 635.83m                     | D: Marine Dr: Nelson Ave to Keith – 234m  |
| E: 4100 block Marine Drive – 512m                        | E: Taylor Way – 518m                      |
| F: Inglewood – 810.8 m (ongoing)                         | F: Ottawa Avenue – 234m                   |
| G: 26th St, 27th St, Ottawa, and Nelson – 854m (ongoing) | G: Rabbit Lane – 376m                     |
|  | H: Eden Place – 130m                      |
|  | I: Caulfield: Meadfeild to Rutland – 238m |
|  | J: Woodgreen Drive – 278m                 |
|  | K: Woodgreen C3 – 197m                    |
|  | L: Southborough Watermain – 293m          |

## **6.0 PUBLIC NOTIFICATION**

### **6.1 Drinking Water Advisory/Boil Water Advisory**

2022 was free of significant turbidity events from the Metro Vancouver, Eagle Lake and Montizambert sources.

A single boil water advisory, lasting 24 hours, was issued to 11 residents on St. Andrews Place due to a water main break. The advisory was lifted following a negative bacterial sample result. Bottled water was provided to residents during the advisory.

### **6.2 General Drinking Water Quality Advisory**

There were no General Drinking Water Advisories issued in 2022.

## **7.0 OPERATOR QUALIFICATIONS AND TRAINING**

Further to the *Drinking Water Protection Act*, the Drinking Water Protection Regulation (DWPR) came into effect May 16, 2003. The regulation includes the classification of distribution and treatment systems and the qualification standards for persons operating these systems through the Environmental Operators Certification Program (EOCP).

The District's water distribution system is classified Level 4. The District is in compliance with EOCP's requirement to have at least one operator certified to the level of the facility. Nevertheless, the District continues to work towards having multiple operators certified to EOCP Level 4. The water treatment plants are assessed separately, and as noted in Sections 3.2 and 3.3.

### **7.1 Operator Qualifications**

The municipality has a distribution system staff of six operators and one supervisor and a treatment staff of two treatment operators and one supervisor.

In 2022, the District staff maintained the following certification levels:

#### **Water Distribution:**

- Level 4 – one supervisor
- Level 3 – two operators
- Level 2 – four operators
- Level 1 – none

**Water Treatment:**

- Level 4 – one supervisor
- Level 3 – two operators
- Level 2 – 0 operators
- Level 1 – 0 operators

Staff are encouraged to take courses that will enable them to advance to higher EOCP certification levels. All operators are required to take a prescribed amount of education and training to keep their certifications in good standing.

**8.0 EMERGENCY RESPONSE PLANS****8.1 E. coli Positive Response**

If a sample analyzed by Metro Vancouver Laboratories is tested positive for E. coli, the following response plan will occur.

1. The municipality's water quality personnel and the MHO will be notified via the Metro laboratory.
2. Results of interim samples, if any, from the site will be examined. (Interim samples are any samples that may have been taken from the site in the period between when the E. coli positive sample was taken and when it was determined to be E. coli positive.)
3. Arrangements will be made for the immediate collection of a repeat sample including, where possible, samples from upstream and downstream of the E. coli positive sample location.
4. Water treatment personnel will be contacted to determine if an interruption of source water disinfection had occurred in the period before the E. coli positive sample was taken.
5. The chlorine residual for the sample noted on the sampler's Water Sample Data Sheet will be reviewed to determine if a localized loss of disinfectant residual has occurred.
6. All water utility personnel will be contacted to determine if there has been any loss of pressure or other unusual events that may have led to contaminants entering the water system.
7. The need for boil water advisory will be evaluated and if deemed necessary by the MHO, the VCHA and the municipality will carry out various means to inform the public. Metro Vancouver will be informed of this public advisory.
8. The MHO and District staff shall determine the extent of the boil water advisory.
9. Metro Labs will initiate procedures necessary for the identification of E.coli with standard biochemical tests.
10. The District will provide the MHO with repeat sample results and continue to sample until three consecutive samples show no E.coli detectable per 100mLs.

## **8.2 Chemical or Biological Contamination Response**

In the event of chemical or biological contamination, in either of the source waters (Eagle Lake, Montizambert Creek) or in the distribution system, the MHO will be immediately notified. The chemical will be identified and any public health risk factors associated with the chemical presence in the potable water will be determined. Steps will be taken to isolate the contaminated zone area and the level of contamination will be determined through water testing and sampling. Through consultation with the MHO, a public advisory will be communicated. All steps to ensure public health and safety including the banning of water usage will be undertaken if necessary.

## **8.3 Turbidity Response**

In general, turbidity has not been a persistent problem in the District's water supply (see Section 4.2.1), although on occasion, elevated levels can be experienced. Water quality has improved greatly with the introduction of the Eagle Lake and Montizambert Membrane Filtration Facilities, which produce treated water with turbidity of less than 0.1 NTU. As well, the commissioning of the Seymour-Capilano twin tunnels in 2015, which ensures all the water received from Metro Vancouver has gone through the Seymour-Capilano Filtration Plant has had a positive effect.

Since all water supply sources to the District of West Vancouver are currently filtered, an elevated turbidity event is very unlikely. Nevertheless, if an elevated turbidity event does occur, representatives from Metro Vancouver, the Health Authorities and local municipalities will review communications protocols. Meanwhile, the District continues to follow an existing turbidity response plan, which was developed in cooperation with the VCHA. The approach understands the need to increase and maintain chlorine dosage rates and residuals during periods of elevated turbidity while minimizing the levels of disinfection by-products whenever possible.

The following actions will be taken regarding turbidity in source waters.

1. The District will conduct regular sampling of Eagle Lake and Montizambert sources to monitor turbidity.
2. The District will take into consideration the effectiveness of increased chlorine dosage, the chlorine contact time, the source of turbidity, and the quality of the Metro Vancouver supply in its response to minimizing the amount of turbidity entering the water system.
3. A turbidity level of >1 NTU will be the trigger for municipal operational actions.
4. During turbidity events >1 NTU, the level of primary chlorination at Eagle Lake and Montizambert sources and at any secondary chlorination points will be increased accordingly.
5. During turbidity events of >5 NTU, a rigorous sampling program for microbiological activity throughout the distribution system will be conducted.
6. During turbidity events of >5 NTU, a public communication may be issued in consultation with the Health Authority.

7. During turbidity events >2 NTU and <3 NTU, the District will consider switching to the Metro Vancouver supply, depending on the turbidity of that supply.
8. During turbidity events >3 NTU, the District will switch to the Metro Vancouver supply, if possible, should the turbidity of that supply be <1 NTU.
9. Two consecutive days of turbidity <1 NTU shall pass before lowering chlorine dosage to pre-event levels.
10. During turbidity events of >5 NTU and while the Eagle Lake treatment plant is in bypass mode, the District may issue a boil water advisory in conjunction with the MHO to residents receiving such water.
11. After a turbidity event of >5 NTU, two consecutive days of turbidity <1 NTU shall pass before rescinding the water quality advisory.

#### **8.4 Response to Interruption of Secondary Disinfection**

The District's SCADA system constantly monitors the secondary chlorination stations. This system automatically alerts utility personnel of any disinfection failures, all of which are reported to VCH. Utility personnel carry out immediate repairs to equipment and if necessary, manual disinfection is established. Chlorine residual samples are taken at various points in the distribution system to ensure adequate free chlorine residual is present. In cases where chlorine residual is less than 0.2 mg/L, municipal crews will flush the affected area until the desired level is achieved.

Upon notification by Metro Vancouver Operations that an interruption in disinfection has occurred at Metro facilities, the municipality will immediately commence monitoring of chlorine residuals at strategic locations in the Metro Vancouver supply area. The monitoring will continue until disinfection is resumed and desired levels have been reached within the distribution system.

No manual disinfection protocol was implemented in 2022.

## **9.0 CONCLUSIONS**

Overall, the residents of West Vancouver enjoy a very high quality of drinking water. The protected nature of the Eagle Lake and Montizambert Creek watersheds and the very low levels of E. coli, giardia, and cryptosporidium in the raw source waters are key factors.

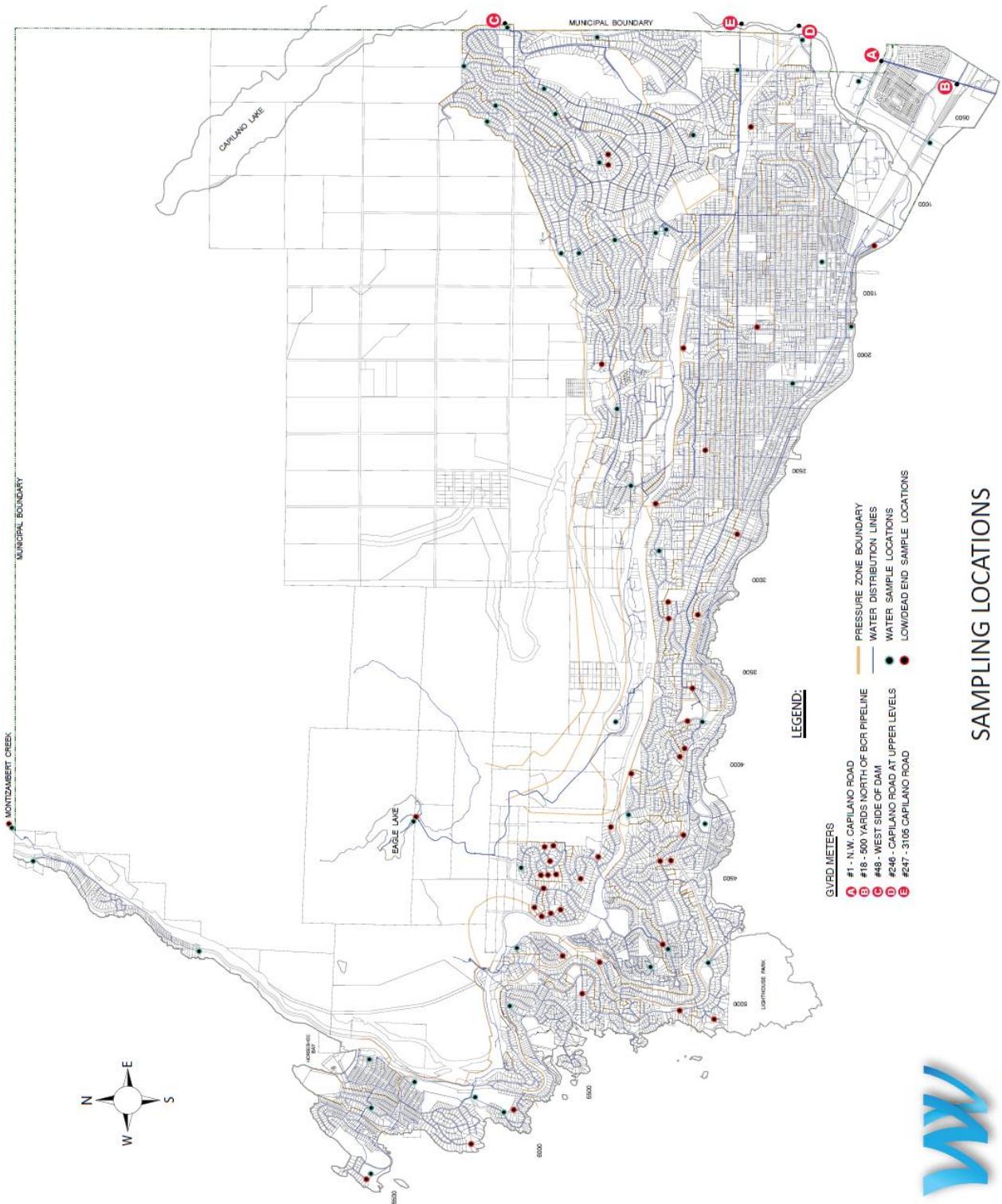
In 2022, the District's distribution water supply met all the requirements as outlined in the Guidelines for Canadian Drinking Water Quality.

District staff continues to take a balanced approach and employ best management practices in the operation and maintenance of the water system to maintain high water quality.

In closing, the District appreciates the good working relationship with public health staff and acknowledges the Health Authority as a partner in maintaining high quality drinking water in the municipality.

## APPENDIX A

### 1. Map of Water System Sampling Locations



## 2. Water Sampling Locations by Address

| DISTRICT OF WEST VANCOUVER<br>WATER SAMPLE LOCATIONS                                  |                                      |                   |              |           |          |
|---|--------------------------------------|-------------------|--------------|-----------|----------|
| Supply Source   | Address                              | Description       | Flow Type    | Sample #  | Bottle # |
| METRO VANCOUVER   | 1020 Groveland Road                  | Sample Kiosk      | High         | DmWVR-711 | G711     |
| Require 12 samples  | 510 Ballantree Road                  | Sample Kiosk      | Medium       | DmWVR-712 | G712     |
| Bi-weekly   | 670 Holmbury Place (DBP Sample Only) | House             | Low/Dead End | DmWVR-713 | G713     |
|   | The Dale & Marine                    | Sample Kiosk      | High         | DmWVR-716 | G716     |
|   | 111 - 18th Street (DBP Sample Only)  | Hydrant           | Low/Dead End | DmWVR-717 | G717     |
|   | 885 - 22nd Street                    | Church            | High         | DmWVR-718 | G718     |
|   | 2600 Chelsea Court                   | Pump House        | Medium       | DmWVR-719 | G719     |
|   | 243 Rabbit Lane                      | Sample Kiosk      | Low/Dead End | DmWVR-761 | G761     |
|   | 111 Bridge Road                      | Sample Kiosk      | Medium       | DmWVR-764 | G764     |
|   | 5459 West Vista Court                | House             | Low/Dead End | DmWVR-765 | G765     |
|   | 2185 Gisby Street                    | Sample Kiosk      | Medium       | DmWVR-768 | G768     |
|   | 1210 Chartwell Drive                 | Sample Kiosk      | High         | DmWVR-769 | G769     |
|   | 3828 Bayridge Avenue                 | Sample Kiosk      | High         | DmWVR-770 | G770     |
|   | 6406 Bruce St.                       | House             | Medium       | DmWVR-771 | G771     |
|   | 6470 Madrona Crescent                | Reservoir         | Medium       | DmWVR-772 | G772     |
|   | Whytcliffe Park                      | Sample Kiosk      | Low/Dead End | DmWVR-773 | G773     |
|   | 6117 Glen Eagles Drive               | Sample Kiosk      | High         | DmWVR-774 | G774     |
|   | 3755 Cypress Bowl Road               | Sample Kiosk      | Medium       | DmWVR-776 | G776     |
|   | 6190 Marine Drive                    | Sample Kiosk      | Medium       | DmWVR-778 | G778     |
|   | 1370 Burnside Road                   | Pump House        | High         | DmWVR-779 | G779     |
|   | 5634 Westhaven Road                  | Sample Kiosk      | Medium       | DmWVR-780 | G780     |
|   | 4520 Almondel Place                  | PRV Station       | Medium       | DmWVR-783 | G783     |
|   | 5759 Primrose Place                  | Sample Kiosk      | Medium       | DmWVR-784 | G784     |
|   | 4820 Headland Drive                  | Hydrant           | High         | DmWVR-785 | G785     |
|   | 1158 Millstream Road                 | Sample Kiosk      | High         | DmWVR-786 | G786     |
|   | 2711 Willoughby Road                 | Sample Kiosk      | High         | DmWVR-787 | G787     |
|   | 1551 Vinson Creek Road               | Pump House        | High         | DmWVR-788 | G788     |
|   | 19 Glenmore Drive                    | Pump House        | High         | DmWVR-790 | G790     |
|   | 200 Keith Road                       | Klee Wyck Nursery | High         | DmWVR-791 | G791     |
|   | 76 Bonnymuir Drive                   | Pump House        | Medium       | DmWVR-792 | G792     |
|   | 559 Kildonan Road                    | Sample Kiosk      | Low/Dead End | DmWVR-793 | G793     |
|   | 702 Barnham Road                     | Sample Kiosk      | Medium       | DmWVR-794 | G794     |
|   | 620 Kenwood Road                     | Sample Kiosk      | Medium       | DmWVR-795 | G795     |
|   | 315 Mathers Avenue                   | House             | High         | DmWVR-796 | G796     |
|   | 395 Klahanie Court                   | Sample Kiosk      | Medium       | DmWVR-797 | G797     |
|   | 965 Cross Creek Road                 | Pump House        | High         | DmWVR-880 | G880     |
|   | 4778 Woodgreen Dr.                   | Sample Kiosk      | High         | DmWVR-710 | G710     |
| Sample locations may deviate slightly if sampling point is not accessible.            |                                      |                   |              |           |          |
|   |                                      |                   |              |           |          |
|   |                                      |                   |              |           |          |
| Sampling Stations by Flow:  |                                      |                   |              |           |          |
| 10% - Source      10% - Low Flow/Dead End      40% - Medium Flow      40% - High Flow |                                      |                   |              |           |          |

| DISTRICT OF WEST VANCOUVER  |                                      |                   |              |                |          |
|---|--------------------------------------|-------------------|--------------|----------------|----------|
| WATER SAMPLE LOCATIONS  |                                      |                   |              |                |          |
| Supply Source   | Address                              | Description       | Flow Type    | Sample #       | Bottle # |
| Eagle Lake  | 1020 Groveland Road                  | Sample Kiosk      | High         | DmWEAG-711     | E711     |
| Require 12/13 samples   | 510 Ballantree Road                  | Sample Kiosk      | Medium       | DmWEAG-712     | E712     |
| Bi - Weekly   | 670 Holmbury Place (DBP Sample Only) | House             | Low/Dead End | DmWEAG-713     | E713     |
|   | The Dala & Marine                    | Sample Kiosk      | High         | DmWEAG-716     | E716     |
|   | 2600 Chelsea Court                   | Pump House        | Medium       | DmWEAG-719     | E719     |
|   | 243 Rabbit Lane                      | Sample Kiosk      | Low/Dead End | DmWEAG-761     | E761     |
|   | 5459 West Vista Court                | House             | Low          | DmWEAG-765     | E765     |
|   | 2185 Gisby Street                    | Sample Kiosk      | Medium       | DmWEAG-768     | E768     |
|   | 4778 Woodgreen Drive                 | Sample Kiosk      | High         | DmWEAG-710     | E710     |
|   | 1210 Chartwell Drive                 | Sample Kiosk      | High         | DmWEAG-769     | E769     |
|   | 3828 Bayridge Avenue                 | Sample Kiosk      | High         | DmWEAG-770     | E770     |
|   | 6406 Bruce Street                    | House             | Medium       | DmWEAG-771     | E771     |
|   | 6470 Madrona Crescent                | Reservoir         | Medium       | DmWEAG-772     | E772     |
|   | Whycliffe Park                       | Sample Kiosk      | Low/Dead End | DmWEAG-773     | E773     |
|   | 6117 Gleneagles Drive                | Sample Kiosk      | High         | DmWEAG-774     | E774     |
|   | 3755 Cypress Bowl Road               | Sample Kiosk      | Medium       | DmWEAG-776     | E776     |
|   | 6190 Marine Drive                    | Sample Kiosk      | Medium       | DmWEAG-778     | E778     |
|   | 1370 Burnside Road                   | Pump House        | High         | DmWEAG-779     | E779     |
|   | 5634 Westhaven Road                  | Sample Kiosk      | Medium       | DmWEAG-780     | E780     |
|   | 4520 Almondel Place                  | PRV Station       | Medium       | DmWEAG-783     | E783     |
|   | 5759 Primrose Place                  | Sample Kiosk      | Medium       | DmWEAG-784     | E784     |
|   | 4820 Headland Drive                  | Hydrant           | High         | DmWEAG-785     | E785     |
|   | 1158 Millstream Road                 | Sample Kiosk      | High         | DmWEAG-786     | E786     |
|   | 2711 Willoughby Road                 | Sample Kiosk      | High         | DmWEAG-787     | E787     |
|   | 1551 Vinson Creek Road               | Pump House        | High         | DmWEAG-788     | E788     |
|   | 19 Glenmore Drive                    | Pump House        | High         | DmWEAG-790     | E790     |
|   | 76 Bonnymuir Drive                   | Pump House        | Medium       | DmWEAG-792     | E792     |
|   | 559 Kildonan Road                    | Sample Kiosk      | Low/Dead End | DmWEAG-793     | E793     |
|   | 702 Barnham Road                     | Sample Kiosk      | Medium       | DmWEAG-794     | E794     |
|   | 620 Kenwood Road                     | Sample Kiosk      | Medium       | DmWEAG-795     | E795     |
|   | 315 Mathers Avenue                   | House             | High         | DmWEAG-796     | E796     |
|   | 965 Cross Creek Road                 | Pump House        | High         | DmWEAG-880     | E880     |
|   | Eagle Lake ***                       | Source            | Source       | DmWEAG-LK1     | E-LK1    |
| <b>Montizambert Creek</b>   |                                      |                   |              |                |          |
|   | 8005 Pasco Road                      | Sample Kiosk      | Dead End     | DmWMTZ-781     | MZ-781   |
|   | 8995 Lawrence Way                    | Sample Kiosk      | Dead End     | DmWMTZ-782     | MZ-782   |
|   | Montizambert Creek ***               | Source            | Source       | DmWMZ-CK1      | MZ-CK1   |
| <b>Metals Analysis</b>  |                                      |                   |              |                |          |
| Semi - annual   | 8995 Lawrence Way                    | Marina - Hose Bib |              | DmWMZ-782      | MZ-782   |
|   | Gleneagles Elementary School         | Internal Faucet   |              | DmWEAG/MVR-789 | E/G-789  |
|   | Cypress Park Elementary School       | Internal Faucet   |              | DmWEAG/MVR-798 | E/G-798  |
|   | Hollyburn Elementary School          | Internal Faucet   |              | DmWVR-799      | G-799    |
| Sample locations may deviate slightly if sampling point is not accessible.            |                                      |                   |              |                |          |
| *** Denotes source sites are sampled semi-annually for detailed analysis.             |                                      |                   |              |                |          |
| Sampling Stations by Flow:  |                                      |                   |              |                |          |
| 10% - Source      10% - Low Flow/Dead End      40% - Medium Flow      40% - High Flow |                                      |                   |              |                |          |

## APPENDIX B

### 1. Source Water Quality – Eagle Lake

| Sample Name | Sample Type | Sample Description | Sampled Date | Ecoli (MPN/100mLs) | HPC (CFU/mL) | Temperature (°C) | Total Coliform (MPN/100mLs) | Turbidity (NTU) |
|-------------|-------------|--------------------|--------------|--------------------|--------------|------------------|-----------------------------|-----------------|
| WEAG-LK1    | Grab        | Eagle Lake Source  | 17-Jan-22    | <1                 | 380          | 4                | 28                          | 1.10            |
| WEAG-LK1    | Grab        | Eagle Lake Source  | 31-Jan-22    | <1                 | 240          | 4                | 17                          | 0.24            |
| WEAG-LK1    | Grab        | Eagle Lake Source  | 14-Feb-22    | <1                 | 200          | 5                | 10                          | 0.28            |
| WEAG-LK1    | Grab        | Eagle Lake Source  | 23-Feb-22    | <1                 | 130          | 5                | 13                          | 0.27            |
| WEAG-LK1    | Grab        | Eagle Lake Source  | 28-Feb-22    | <1                 | 110          | 8                | 11                          | 0.28            |
| WEAG-LK1    | Grab        | Eagle Lake Source  | 14-Mar-22    | <1                 | 64           | 7                | 4                           | 0.21            |
| WEAG-LK1    | Grab        | Eagle Lake Source  | 28-Mar-22    | <1                 | 100          | 8                | 7                           | 0.23            |
| WEAG-LK1    | Grab        | Eagle Lake Source  | 11-Apr-22    | <1                 | 100          | 7                | 13                          | 0.21            |
| WEAG-LK1    | Grab        | Eagle Lake Source  | 25-Apr-22    | <1                 | 120          | 7                | 16                          | 0.31            |
| WEAG-LK1    | Grab        | Eagle Lake Source  | 9-May-22     | <1                 | 150          | 8                | 31                          | 0.19            |
| WEAG-LK1    | Grab        | Eagle Lake Source  | 25-May-22    | <1                 | 770          | 9                | 50                          | 0.26            |
| WEAG-LK1    | Grab        | Eagle Lake Source  | 6-Jun-22     | 1                  | 390          | 10               | 47                          | 0.30            |
| WEAG-LK1    | Grab        | Eagle Lake Source  | 20-Jun-22    | <1                 | 200          | 10               | 34                          | 0.32            |
| WEAG-LK1    | Grab        | Eagle Lake Source  | 4-Jul-22     | <1                 | 330          | 11               | 58                          | 0.29            |
| WEAG-LK1    | Grab        | Eagle Lake Source  | 18-Jul-22    | <1                 | 280          | 14               | 179                         | 0.36            |
| WEAG-LK1    | Grab        | Eagle Lake Source  | 3-Aug-22     | <1                 | 340          | 22               | 50                          | 0.23            |
| WEAG-LK1    | Grab        | Eagle Lake Source  | 15-Aug-22    | <1                 | 420          | 21               | 17                          | 0.25            |
| WEAG-LK1    | Grab        | Eagle Lake Source  | 29-Aug-22    | <1                 | 230          | 21               | 23                          | 0.27            |
| WEAG-LK1    | Grab        | Eagle Lake Source  | 12-Sep-22    | <1                 | 140          | 18               | 19                          | 0.35            |
| WEAG-LK1    | Grab        | Eagle Lake Source  | 26-Sep-22    | <1                 | 88           | 14               | 10                          | 0.42            |
| WEAG-LK1    | Grab        | Eagle Lake Source  | 12-Oct-22    | <1                 | 110          | 14               | 28                          | 0.55            |
| WEAG-LK1    | Grab        | Eagle Lake Source  | 24-Oct-22    | <1                 | 94           | 10               | 32                          | 0.82            |
| WEAG-LK1    | Grab        | Eagle Lake Source  | 7-Nov-22     | 10                 | 570          | 6                | 326                         | 0.59            |
| WEAG-LK1    | Grab        | Eagle Lake Source  | 21-Nov-22    | <1                 | 320          | 6                | 25                          | 0.53            |
| WEAG-LK1    | Grab        | Eagle Lake Source  | 8-Dec-22     | <1                 | 220          | 5                | 18                          | 0.46            |

## 2. Source Water Quality – Montizambert Creek

| Sample Name | Sample Type | Sample Description              | Sampled date | Ecoli (MPN/100mLs) | HPC (CFU/mL) | Temperature (°C) | Total Coliform (MPN/100mLs) | Turbidity (NTU) |
|-------------|-------------|---------------------------------|--------------|--------------------|--------------|------------------|-----------------------------|-----------------|
| WMZ-CK1     | Grab        | Montizambert Creek Source Water | 10-Jan-22    | <1                 | 250          | 4                | 17                          | 0.66            |
| WMZ-CK1     | Grab        | Montizambert Creek Source Water | 24-Jan-22    | <1                 | 80           | 7                | 5                           | 1.20            |
| WMZ-CK1     | Grab        | Montizambert Creek Source Water | 7-Feb-22     | <1                 | 98           | 7                | 2                           | 1.20            |
| WMZ-CK1     | Grab        | Montizambert Creek Source Water | 7-Mar-22     | <1                 | 110          | 6                | 8                           | 1.00            |
| WMZ-CK1     | Grab        | Montizambert Creek Source Water | 21-Mar-22    | <1                 | 86           | 6                | 8                           | 1.70            |
| WMZ-CK1     | Grab        | Montizambert Creek Source Water | 4-Apr-22     | 1                  | 280          | 9                | 26                          | 3.30            |
| WMZ-CK1     | Grab        | Montizambert Creek Source Water | 20-Apr-22    | <1                 | 130          | 8                | 20                          | 1.40            |
| WMZ-CK1     | Grab        | Montizambert Creek Source Water | 2-May-22     | <1                 | 340          | 7                | 22                          | 1.40            |
| WMZ-CK1     | Grab        | Montizambert Creek Source Water | 16-May-22    | 1                  | 400          | 10               | 29                          | 1.70            |
| WMZ-CK1     | Grab        | Montizambert Creek Source Water | 30-May-22    | 22                 | 480          | 9                | 88                          | 1.80            |
| WMZ-CK1     | Grab        | Montizambert Creek Source Water | 13-Jun-22    | <1                 | 310          | 8                | 41                          | 1.40            |
| WMZ-CK1     | Grab        | Montizambert Creek Source Water | 27-Jun-22    | <1                 | 370          | 11               | 69                          | 0.85            |
| WMZ-CK1     | Grab        | Montizambert Creek Source Water | 11-Jul-22    | <1                 | 210          | 12               | 107                         | 0.78            |
| WMZ-CK1     | Grab        | Montizambert Creek Source Water | 25-Jul-22    | <1                 | 230          | 15               | 194                         | 0.63            |
| WMZ-CK1     | Grab        | Montizambert Creek Source Water | 8-Aug-22     | <1                 | 420          | 15               | 387                         | 0.42            |
| WMZ-CK1     | Grab        | Montizambert Creek Source Water | 22-Aug-22    | <1                 | 300          | 15               | 345                         | 0.41            |
| WMZ-CK1     | Grab        | Montizambert Creek Source Water | 7-Sep-22     | <1                 | 270          | 14               | 461                         | 0.42            |
| WMZ-CK1     | Grab        | Montizambert Creek Source Water | 21-Sep-22    | <1                 | 200          | 12               | 179                         | 0.47            |
| WMZ-CK1     | Grab        | Montizambert Creek Source Water | 3-Oct-22     | <1                 | 380          | 13               | 248                         | 0.47            |
| WMZ-CK1     | Grab        | Montizambert Creek Source Water | 17-Oct-22    | <1                 | 240          | 12               | 260                         | 0.36            |
| WMZ-CK1     | Grab        | Montizambert Creek Source Water | 31-Oct-22    | 5                  | 1400         | 11               | 365                         | 4.60            |
| WMZ-CK1     | Grab        | Montizambert Creek Source Water | 14-Nov-22    | <1                 | 200          | 6                | 43                          | 0.46            |
| WMZ-CK1     | Grab        | Montizambert Creek Source Water | 29-Nov-22    | <1                 | 220          | 5                | 43                          | 0.43            |
| WMZ-CK1     | Grab        | Montizambert Creek Source Water | 12-Dec-22    | <1                 | 240          | 6                | 17                          | 0.31            |

### 3. Source Water Chemistry

| Sample Name                     |          | 1st Half          | 2nd Half          |
|---------------------------------|----------|-------------------|-------------------|
| Sample Description              |          | Eagle Lake Source | Eagle Lake Source |
| Sampled date                    |          | 2022-05-09 08:17  | 2022-11-07 09:03  |
| Sample Type                     | Unit     | GRAB              | GRAB              |
| Alkalinity as CaCO <sub>3</sub> | mg/L     | 2.4               | 2.5               |
| Aluminum Dissolved              | µg/L     | 99                | 77                |
| Aluminum Total                  | µg/L     | 105               | 35                |
| Antimony Total                  | µg/L     | <0.5              | <0.5              |
| Arsenic Total                   | µg/L     | <0.5              | <0.5              |
| Barium Total                    | µg/L     | 2.6               | 3.6               |
| Boron Total                     | µg/L     | <10               | <10               |
| Cadmium Total                   | µg/L     | <0.2              | <0.2              |
| Calcium Total                   | µg/L     | 857               | 8360              |
| Carbon Organic - Dissolved      | mg/L     | N/A               | 2.2               |
| Carbon Organic - Total          | mg/L     | 2.3               | 2.6               |
| Chloride                        | mg/L     | 0.6               | 1                 |
| Chromium Total                  | µg/L     | <0.05             | <0.05             |
| Color - Apparent                | ACU      | 15                | 20                |
| Color - True                    | TCU      | 12                | 15                |
| Conductivity                    | µmhos/cm | 10                | 13                |
| Copper Total                    | µg/L     | 2.1               | <0.5              |
| Cyanide Total                   | mg/L     | <0.02             | <0.02             |
| Fluoride                        | mg/L     | <0.05             | <0.05             |
| Hardness as CaCO <sub>3</sub>   | mg/L     | 2.8               | 21.8              |
| Iron Dissolved                  | µg/L     | 22                | 91                |
| Iron Total                      | µg/L     | 29                | 8                 |
| Lead Total                      | µg/L     | <0.5              | <0.5              |
| Magnesium Total                 | µg/L     | 157               | 222               |
| Manganese Dissolved             | µg/L     | 4                 | 15.3              |
| Manganese Total                 | µg/L     | 4                 | 10.6              |
| Mercury Total                   | µg/L     | <0.05             | <0.05             |
| Nickel Total                    | µg/L     | <0.5              | <0.5              |
| Nitrogen - Ammonia as N         | mg/L     | <0.02             | 0.02              |
| Nitrogen - Nitrate as N         | mg/L     | <0.01             | 0.09              |
| Nitrogen - Nitrite as N         | mg/L     | <0.01             | <0.01             |
| pH                              | pH units | 6.3               | 6.4               |
| Phenol                          | mg/L     | <0.005            | <0.005            |
| Phosphorus Dissolved            | µg/L     | <10               | <10               |
| Phosphorus Total                | µg/L     | <10               | <10               |
| Potassium Total                 | µg/L     | 78                | 235               |
| Residue Total                   | mg/L     | 13                | 20                |
| Residue Total Dissolved         | mg/L     | 12                | 17                |
| Residue Total Fixed             | mg/L     | 7                 | 11                |
| Residue Total Volatile          | mg/L     | 6                 | 10                |
| Selenium Total                  | µg/L     | <0.5              | <0.5              |
| Silica as SiO <sub>2</sub>      | mg/L     | 3.4               | 3.7               |
| Silver Total                    | µg/L     | <0.5              | <0.5              |
| Sodium Total                    | µg/L     | 773               | 1860              |
| Sulphate                        | mg/L     | 0.9               | 1.1               |
| UV Absorbance 254 nm            | Abs/cm   | 0.091             | 0.103             |
| Zinc Total                      | µg/L     | 3.4               | 3.6               |

| 1st Half                        | 2nd Half                        |
|---------------------------------|---------------------------------|
| WVR-MONT_CREEK                  | WVR-MONT_CREEK                  |
| Montizambert Creek Source Water | Montizambert Creek Source Water |
| 2022-05-09 08:56                | 2022-11-07 08:24                |
| GRAB                            | GRAB                            |
| 2.6                             | 1.6                             |
| 39                              | 10000                           |
| 2890                            | 10500                           |
| <0.5                            | <0.5                            |
| <0.5                            | <0.5                            |
| 1.4                             | 1.8                             |
| <10                             | <10                             |
| <0.2                            | <0.2                            |
| 1430                            | 1820                            |
| N/A                             | 1.8                             |
| 2.3                             | 2                               |
| 2.4                             | 7.8                             |
| 0.14                            | 0.1                             |
| 22                              | 19                              |
| <1                              | 10                              |
| 15                              | 27                              |
| 17.5                            | 25.4                            |
| <0.02                           | <0.02                           |
| <0.05                           | <0.05                           |
| 4.3                             | 5.6                             |
| <5                              | 17                              |
| 25                              | 21                              |
| 1.2                             | 1.4                             |
| 186                             | 245                             |
| <0.5                            | 0.8                             |
| 0.6                             | 0.9                             |
| <0.05                           | <0.05                           |
| 0.6                             | <0.5                            |
| <0.02                           | <0.02                           |
| 0.01                            | 0.04                            |
| <0.01                           | <0.01                           |
| 6.5                             | 5.7                             |
| <0.005                          | <0.005                          |
| <10                             | <10                             |
| <10                             | <10                             |
| 92                              | 153                             |
| 25                              | 53                              |
| 14                              | 48                              |
| 14                              | 33                              |
| 11                              | 20                              |
| <0.5                            | <0.5                            |
| 4.9                             | 5.5                             |
| <0.5                            | <0.5                            |
| 833                             | 1110                            |
| 1.1                             | 1.8                             |
| 0.011                           | 0.077                           |
| 67.6                            | 46.4                            |

## APPENDIX C

### 1. Semi Annual Metals Monitoring Results – Water Distribution

|                         |                    | 1st Half                                  | 2nd Half                                  | 1st Half                      | 2nd Half                      |
|-------------------------|--------------------|---|---|-------------------------------|-------------------------------|
|                         | Sample Name        | WEAG-789                                  | WEAG-789                                  | WMZ-782                       | WMZ-782                       |
|                         | Sample Location    | Gleneagles Elementary - 6350 Marine Drive | Gleneagles Elementary - 6350 Marine Drive | 8995 Lawrence Way, Mtzb Creek | 8995 Lawrence Way, Mtzb Creek |
|                         | Sample Date        | 2022/05/03 8:25                           | 2022/11/08 9:40                           | 2022/05/03 8:05               | 2022/11/08 9:15               |
|                         | Canadian Guideline | Grab Sample                               | Grab Sample                               | Grab Sample                   | Grab Sample                   |
| Parameter               | Limit              | Reason                                    |   |                               |                               |
| Aluminium Total (µg/L)  | 100                | Aesthetic                                 | 38  | 35                            | 13                            |
| Antimony Total (µg/L)   | 6                  | Health                                    | <0.5                                      | <0.5                          | <0.5                          |
| Arsenic Total (µg/L)    | 10 (ALARA)         | Health                                    | <0.5                                      | <0.5                          | <0.5                          |
| Barium Total (µg/L)     | 2000               | Health                                    | 2.4                                       | 2.6                           | 3.5                           |
| Boron Total (µg/L)      | 5000               | Health                                    | <10                                       | <10                           | <10                           |
| Cadmium Total (µg/L)    | 7                  | Health                                    | <0.2                                      | <0.2                          | <0.2                          |
| Calcium Total (µg/L)    | none               |   | 924                                       | 1560                          | 1610                          |
| Chromium Total (µg/L)   | 50                 | Health                                    | <0.05                                     | 0.07                          | <0.05                         |
| Cobalt Total (µg/L)     | none               |   | <0.5                                      | <0.5                          | <0.5                          |
| Copper Total (µg/L)     | ≤2000              | Health                                    | 28.9                                      | 7.1                           | 4.1                           |
| Iron Total (µg/L)       | ≤ 300              | Aesthetic                                 | 12  | 7                             | 193                           |
| Lead Total (µg/L)       | 5 (ALARA)          | Health                                    | <0.5                                      | <0.5                          | <0.5                          |
| Magnesium Total (µg/L)  | none               |   | 143                                       | 193                           | 192                           |
| Manganese Total (µg/L)  | 120                | Health                                    | 1.2                                       | 7.2                           | 1.4                           |
| Mercury Total (µg/L)    | 1.0                | Health                                    | <0.05                                     | <0.05                         | <0.05                         |
| Molybdenum Total (µg/L) | none               |   | <0.5                                      | 0.7                           | <0.5                          |
| Nickel Total (µg/L)     | none               |   | <0.5                                      | <0.5                          | <0.5                          |
| Potassium Total (µg/L)  | none               |   | 74  | 143                           | 100                           |
| Selenium Total (µg/L)   | 50                 | Health                                    | <0.5                                      | <0.5                          | <0.5                          |
| Silver Total (µg/L)     | none               |   | <0.5                                      | <0.5                          | <0.5                          |
| Sodium Total (µg/L)     | ≤ 200,000          | Aesthetic                                 | 3720                                      | 4750                          | 4110                          |
| Zinc Total (µg/L)       | ≤ 5000             | Aesthetic                                 | <3.0                                      | <3.0                          | 48.7                          |
|                         |                    |   |   |                               | 49.7                          |

|                         |                    | 1st Half                | 2nd Half                | 1st Half             | 2nd Half             |
|-------------------------|--------------------|-------------------------|-------------------------|----------------------|----------------------|
|                         | Sample Name        | WVR-798                 | WVR-798                 | WVR-799              | WVR-799              |
|                         | Sample Location    | Cypress Park Elementary | Cypress Park Elementary | Hollyburn Elementary | Hollyburn Elementary |
|                         | Sample Date        | 2022/05/03 8:50         | 2022/11/08 9:21         | 2022/05/03 9:25      | 2022/11/08 9:50      |
|                         | Canadian Guideline | Grab Sample             | Grab Sample             | Grab Sample          | Grab Sample          |
| Parameter               | Limit              | Reason                  |                         |                      |                      |
| Aluminium Total (µg/L)  | 100                | Aesthetic               | 36                      | 38                   | 27                   |
| Antimony Total (µg/L)   | 6                  | Health                  | <0.5                    | <0.5                 | <0.5                 |
| Arsenic Total (µg/L)    | 10 (ALARA)         | Health                  | <0.5                    | <0.5                 | <0.5                 |
| Barium Total (µg/L)     | 2000               | Health                  | 2.2                     | 2.8                  | 2.1                  |
| Boron Total (µg/L)      | 5000               | Health                  | <10                     | <10                  | <10                  |
| Cadmium Total (µg/L)    | 7                  | Health                  | <0.2                    | <0.2                 | <0.2                 |
| Calcium Total (µg/L)    | none               |                         | 8090                    | 8060                 | 7800                 |
| Chromium Total (µg/L)   | 50                 | Health                  | <0.05                   | <0.05                | <0.05                |
| Cobalt Total (µg/L)     | none               |                         | <0.5                    | <0.5                 | <0.5                 |
| Copper Total (µg/L)     | ≤2000              | Health                  | 18.6                    | 20.0                 | 15.8                 |
| Iron Total (µg/L)       | ≤ 300              | Aesthetic               | 12                      | 30                   | 18                   |
| Lead Total (µg/L)       | 5 (ALARA)          | Health                  | <0.5                    | <0.5                 | <0.5                 |
| Magnesium Total (µg/L)  | none               |                         | 196                     | 224                  | 182                  |
| Manganese Total (µg/L)  | 120                | Health                  | 4.8                     | 10.4                 | 4.2                  |
| Mercury Total (µg/L)    | 1.0                | Health                  | <0.05                   | <0.05                | <0.05                |
| Molybdenum Total (µg/L) | none               |                         | <0.5                    | <0.5                 | <0.5                 |
| Nickel Total (µg/L)     | none               |                         | <0.5                    | <0.5                 | <0.5                 |
| Potassium Total (µg/L)  | none               |                         | 150                     | 235                  | 142                  |
| Selenium Total (µg/L)   | 50                 | Health                  | <0.5                    | <0.5                 | <0.5                 |
| Silver Total (µg/L)     | none               |                         | <0.5                    | <0.5                 | <0.5                 |
| Sodium Total (µg/L)     | ≤ 200,000          | Aesthetic               | 1510                    | 1800                 | 1400                 |
| Zinc Total (µg/L)       | ≤ 5000             | Aesthetic               | <3.0                    | 3.2                  | <3.0                 |
|                         |                    |                         |                         |                      | <3.0                 |

## 2. 2022 Disinfection By-Products Quarterly Averages

| Sample   | Date Sampled | Total THM Quarterly Average<br>(Guideline Limit 100 ppb) | Total HAA Quarterly Average<br>(Guideline Limit 80 ppb) |
|----------|--------------|--|---|
| WEAG-772 | 15-Feb-22    | 67   | 46  |
| WEAG-772 | 11-May-22    | 61   | 39  |
| WEAG-772 | 23-Aug-22    | 63   | 43  |
| WEAG-772 | 16-Nov-22    | 60   | 36  |
| WEAG-773 | 15-Feb-22    | 86   | 43  |
| WEAG-773 | 11-May-22    | 83   | 40  |
| WEAG-773 | 23-Aug-22    | 84   | 44  |
| WEAG-773 | 16-Nov-22    | 81   | 43  |
| WEAG-776 | 15-Feb-22    | 47   | 40  |
| WEAG-776 | 11-May-22    | 41   | 35  |
| WEAG-776 | 23-Aug-22    | 46   | 39  |
| WEAG-776 | 16-Nov-22    | 43   | 27  |
| WEAG-778 | 15-Feb-22    | 61   | 33  |
| WEAG-778 | 11-May-22    | 56   | 29  |
| WEAG-778 | 23-Aug-22    | 54   | 32  |
| WEAG-778 | 16-Nov-22    | 49   | 34  |
| WMZ-781  | 15-Feb-22    | 20   | 22  |
| WMZ-781  | 11-May-22    | 14   | 15  |
| WMZ-781  | 23-Aug-22    | 14   | 15  |
| WMZ-781  | 16-Nov-22    | 14   | 14  |
| WMZ-782  | 15-Feb-22    | 12   | 20  |
| WMZ-782  | 11-May-22    | 8  | 10  |
| WMZ-782  | 23-Aug-22    | 8  | 10  |
| WMZ-782  | 16-Nov-22    | 8  | 10  |
| WVR-713  | 15-Feb-22    | 26   | 19  |
| WVR-713  | 11-May-22    | 36   | 28  |
| WVR-713  | 23-Aug-22    | 35   | 28  |
| WVR-713  | 16-Nov-22    | 35   | 27  |
| WVR-716  | 15-Feb-22    | 64   | 46  |
| WVR-716  | 11-May-22    | 60   | 43  |
| WVR-716  | 23-Aug-22    | 59   | 49  |
| WVR-716  | 16-Nov-22    | 56   | 42  |
| WVR-717  | 15-Feb-22    | 25   | 15  |
| WVR-717  | 11-May-22    | 25   | 13  |
| WVR-717  | 23-Aug-22    | 24   | 15  |
| WVR-717  | 16-Nov-22    | 23   | 14  |
| WVR-764  | 15-Feb-22    | 21   | 15  |
| WVR-764  | 11-May-22    | 21   | 14  |
| WVR-764  | 23-Aug-22    | 20   | 14  |
| WVR-764  | 16-Nov-22    | 20   | 12  |

### 3. Water Sampling Results

| Sample Name | Sample Description  | Sampled Date | Sample Type | Chlorine Free mg/L | Temperature °C | HPC CFU/mL | Total Coliform CFU/100mLs | Ecoli CFU/100mLs | Turbidity NTU |
|-------------|---------------------|--------------|-------------|--------------------|----------------|------------|---------------------------|------------------|---------------|
| WVR-711     | 1020 Groveland Road | 5-Jan-22     | GRAB        | 0.79               | 4              | <2         | <1                        | <1               | 0.1           |
| WVR-711     | 1020 Groveland Road | 31-Jan-22    | GRAB        | 0.61               | 4              | 2          | <1                        | <1               | 0.12          |
| WVR-711     | 1020 Groveland Road | 23-Feb-22    | GRAB        | 0.83               | 6              | <2         | <1                        | <1               | 0.09          |
| WVR-711     | 1020 Groveland Road | 28-Feb-22    | GRAB        | 0.96               | 8              | 4          | <1                        | <1               | 0.14          |
| WVR-711     | 1020 Groveland Road | 28-Mar-22    | GRAB        | 0.79               | 8              | 14         | <1                        | <1               | 0.11          |
| WVR-711     | 1020 Groveland Road | 25-Apr-22    | GRAB        | 0.65               | 9              | 2          | <1                        | <1               | 0.08          |
| WVR-711     | 1020 Groveland Road | 25-May-22    | GRAB        | 0.63               | 12             | <2         | <1                        | <1               | 0.11          |
| WVR-711     | 1020 Groveland Road | 20-Jun-22    | GRAB        | 0.75               | 13             | <2         | <1                        | <1               | 0.1           |
| WVR-711     | 1020 Groveland Road | 18-Jul-22    | GRAB        | 0.49               | 15             | <2         | <1                        | <1               | 0.12          |
| WVR-711     | 1020 Groveland Road | 12-Sep-22    | GRAB        | 0.68               | 18             | 2          | <1                        | <1               | 0.15          |
| WVR-711     | 1020 Groveland Road | 12-Oct-22    | GRAB        | 0.63               | 16             | 18         | <1                        | <1               | 0.2           |
| WVR-711     | 1020 Groveland Road | 7-Nov-22     | GRAB        | 0.62               | 10             | 12         | <1                        | <1               | 0.13          |
| WVR-711     | 1020 Groveland Road | 8-Dec-22     | GRAB        | 0.76               | 5              | <2         | <1                        | <1               | 0.24          |
| WVR-712     | 510 Ballantree Road | 5-Jan-22     | GRAB        | 0.73               | 4              | <2         | <1                        | <1               | 0.25          |
| WVR-712     | 510 Ballantree Road | 31-Jan-22    | GRAB        | 0.36               | 4              | <2         | <1                        | <1               | 0.19          |
| WVR-712     | 510 Ballantree Road | 23-Feb-22    | GRAB        | 0.61               | 6              | <2         | <1                        | <1               | 0.12          |
| WVR-712     | 510 Ballantree Road | 28-Feb-22    | GRAB        | 0.46               | 8              | <2         | <1                        | <1               | 0.12          |
| WVR-712     | 510 Ballantree Road | 28-Mar-22    | GRAB        | 0.46               | 8              | <2         | <1                        | <1               | 0.12          |
| WVR-712     | 510 Ballantree Road | 25-Apr-22    | GRAB        | 0.52               | 8              | 4          | <1                        | <1               | 0.15          |
| WVR-712     | 510 Ballantree Road | 25-May-22    | GRAB        | 0.41               | 9              | <2         | <1                        | <1               | 0.12          |
| WVR-712     | 510 Ballantree Road | 20-Jun-22    | GRAB        | 0.37               | 14             | <2         | <1                        | <1               | 0.1           |
| WVR-712     | 510 Ballantree Road | 18-Jul-22    | GRAB        | 0.39               | 16             | 2          | <1                        | <1               | 0.14          |
| WVR-712     | 510 Ballantree Road | 12-Sep-22    | GRAB        | 0.4                | 16             | 2          | <1                        | <1               | 0.17          |
| WVR-712     | 510 Ballantree Road | 12-Oct-22    | GRAB        | 0.33               | 16             | 2          | <1                        | <1               | 0.13          |
| WVR-712     | 510 Ballantree Road | 7-Nov-22     | GRAB        | 0.25               | 10             | <2         | <1                        | <1               | 0.13          |
| WVR-712     | 510 Ballantree Road | 8-Dec-22     | GRAB        | 0.65               | 6              | <2         | <1                        | <1               | 0.2           |
| WVR-718     | 885 - 22nd Street   | 24-Jan-22    | GRAB        | 0.5                | 7              | <2         | <1                        | <1               | 0.12          |
| WVR-718     | 885 - 22nd Street   | 21-Mar-22    | GRAB        | 0.53               | 6              | <2         | <1                        | <1               | 0.11          |
| WVR-718     | 885 - 22nd Street   | 20-Apr-22    | GRAB        | 0.64               | 9              | <2         | <1                        | <1               | 0.14          |
| WVR-718     | 885 - 22nd Street   | 16-May-22    | GRAB        | 0.62               | 11             | 2          | <1                        | <1               | 0.23          |
| WVR-718     | 885 - 22nd Street   | 13-Jun-22    | GRAB        | 0.52               | 14             | <2         | <1                        | <1               | 0.11          |
| WVR-718     | 885 - 22nd Street   | 11-Jul-22    | GRAB        | 0.54               | 15             | 2          | <1                        | <1               | 0.11          |
| WVR-718     | 885 - 22nd Street   | 8-Aug-22     | GRAB        | 0.76               | 18             | <2         | <1                        | <1               | 0.11          |
| WVR-718     | 885 - 22nd Street   | 7-Sep-22     | GRAB        | 0.43               | 20             | <2         | <1                        | <1               | 0.11          |
| WVR-718     | 885 - 22nd Street   | 3-Oct-22     | GRAB        | 0.54               | 18             | 6          | <1                        | <1               | 0.17          |
| WVR-718     | 885 - 22nd Street   | 31-Oct-22    | GRAB        | 0.54               | 14             | 2          | <1                        | <1               | 0.16          |
| WVR-718     | 885 - 22nd Street   | 29-Nov-22    | GRAB        | 0.57               | 7              | 20         | <1                        | <1               | 0.15          |
| WVR-719     | 2600 Chelsea Court  | 26-Sep-22    | GRAB        | 0.65               | 17             | 50         | <1                        | <1               | 0.26          |
| WVR-719     | 2600 Chelsea Court  | 12-Oct-22    | GRAB        | 0.59               | 17             | 450        | <1                        | <1               | 0.72          |
| WVR-761     | 243 Rabbit Lane     | 17-Jan-22    | GRAB        | 0.36               | 5              | <2         | <1                        | <1               | 0.39          |
| WVR-761     | 243 Rabbit Lane     | 14-Feb-22    | GRAB        | 0.63               | 6              | <2         | <1                        | <1               | 0.28          |
| WVR-761     | 243 Rabbit Lane     | 14-Mar-22    | GRAB        | 0.27               | 7              | 4          | <1                        | <1               | 0.61          |
| WVR-761     | 243 Rabbit Lane     | 11-Apr-22    | GRAB        | 0.53               | 9              | 16         | <1                        | <1               | 0.23          |
| WVR-761     | 243 Rabbit Lane     | 9-May-22     | GRAB        | 0.37               | 10             | 8          | <1                        | <1               | 0.3           |
| WVR-761     | 243 Rabbit Lane     | 6-Jun-22     | GRAB        | 0.35               | 14             | 24         | <1                        | <1               | 0.15          |
| WVR-761     | 243 Rabbit Lane     | 4-Jul-22     | GRAB        | 0.56               | 16             | <2         | <1                        | <1               | 0.17          |
| WVR-761     | 243 Rabbit Lane     | 3-Aug-22     | GRAB        | 0.39               | 20             | 30         | <1                        | <1               | 0.17          |
| WVR-761     | 243 Rabbit Lane     | 29-Aug-22    | GRAB        | 0.62               | 20             | 34         | <1                        | <1               | 0.16          |
| WVR-761     | 243 Rabbit Lane     | 26-Sep-22    | GRAB        | 0.37               | 17             | 86         | <1                        | <1               | 0.19          |
| WVR-761     | 243 Rabbit Lane     | 24-Oct-22    | GRAB        | 0.78               | 15             | 50         | <1                        | <1               | 0.24          |
| WVR-761     | 243 Rabbit Lane     | 21-Nov-22    | GRAB        | 0.49               | 9              | 2          | <1                        | <1               | 0.12          |

| Sample Name | Sample Description     | Sampled Date | Sample Type | Chlorine Free mg/L | Temperature °C | HPC CFU/mL | Total Coliform CFU/100mLs | Ecoli CFU/100mLs | Turbidity NTU |
|-------------|------------------------|--------------|-------------|--------------------|----------------|------------|---------------------------|------------------|---------------|
| WVR-764     | 111 Bridge Road        | 17-Jan-22    | GRAB        | 0.86               | 5              | <2         | <1                        | <1               | 0.2           |
| WVR-764     | 111 Bridge Road        | 14-Feb-22    | GRAB        | 0.71               | 5              | <2         | <1                        | <1               | 0.17          |
| WVR-764     | 111 Bridge Road        | 14-Mar-22    | GRAB        | 1.1                | 7              | <2         | <1                        | <1               | 0.14          |
| WVR-764     | 111 Bridge Road        | 11-Apr-22    | GRAB        | 0.71               | 8              | 2          | <1                        | <1               | 0.11          |
| WVR-764     | 111 Bridge Road        | 9-May-22     | GRAB        | 0.7                | 10             | <2         | <1                        | <1               | 0.13          |
| WVR-764     | 111 Bridge Road        | 6-Jun-22     | GRAB        | 0.77               | 12             | <2         | <1                        | <1               | 0.19          |
| WVR-764     | 111 Bridge Road        | 4-Jul-22     | GRAB        | 0.74               | 11             | <2         | <1                        | <1               | 0.13          |
| WVR-764     | 111 Bridge Road        | 3-Aug-22     | GRAB        | 0.81               | 17             | <2         | <1                        | <1               | 0.16          |
| WVR-764     | 111 Bridge Road        | 29-Aug-22    | GRAB        | 0.75               | 15             | <2         | <1                        | <1               | 0.12          |
| WVR-764     | 111 Bridge Road        | 26-Sep-22    | GRAB        | 1.02               | 17             | <2         | <1                        | <1               | 0.14          |
| WVR-764     | 111 Bridge Road        | 24-Oct-22    | GRAB        | 0.88               | 15             | <2         | <1                        | <1               | 0.11          |
| WVR-764     | 111 Bridge Road        | 21-Nov-22    | GRAB        | 0.66               | 10             | <2         | <1                        | <1               | 0.12          |
| WVR-768     | 2185 Gisby Street      | 26-Sep-22    | GRAB        | 0.74               | 17             | 14         | <1                        | <1               | 0.1           |
| WVR-779     | 1370 Burnside Road     | 15-Aug-22    | GRAB        | 0.82               | 16             | 10         | <1                        | <1               | 0.16          |
| WVR-786     | 1158 Millstream Road   | 26-Sep-22    | GRAB        | 0.65               | 16             | 4          | <1                        | <1               | 0.11          |
| WVR-787     | 2711 Willoughby Road   | 26-Sep-22    | GRAB        | 0.77               | 17             | 4          | <1                        | <1               | 0.12          |
| WVR-788     | 1551 Vinson Creek Road | 26-Sep-22    | GRAB        | 0.55               | 16             | <2         | <1                        | <1               | 0.1           |
| WVR-790     | 19 Glenmore Drive      | 5-Jan-22     | GRAB        | 0.61               | 4              | <2         | <1                        | <1               | 0.14          |
| WVR-790     | 19 Glenmore Drive      | 17-Jan-22    | GRAB        | 0.71               | 5              | <2         | <1                        | <1               | 0.15          |
| WVR-790     | 19 Glenmore Drive      | 31-Jan-22    | GRAB        | 0.69               | 4              | <2         | <1                        | <1               | 0.14          |
| WVR-790     | 19 Glenmore Drive      | 14-Feb-22    | GRAB        | 0.71               | 7              | 2          | <1                        | <1               | 0.2           |
| WVR-790     | 19 Glenmore Drive      | 23-Feb-22    | GRAB        | 0.77               | 5              | <2         | <1                        | <1               | 0.16          |
| WVR-790     | 19 Glenmore Drive      | 28-Feb-22    | GRAB        | 0.63               | 8              | <2         | <1                        | <1               | 0.13          |
| WVR-790     | 19 Glenmore Drive      | 14-Mar-22    | GRAB        | 0.81               | 7              | <2         | <1                        | <1               | 0.11          |
| WVR-790     | 19 Glenmore Drive      | 28-Mar-22    | GRAB        | 0.64               | 8              | <2         | <1                        | <1               | 0.11          |
| WVR-790     | 19 Glenmore Drive      | 11-Apr-22    | GRAB        | 0.58               | 10             | <2         | <1                        | <1               | 0.11          |
| WVR-790     | 19 Glenmore Drive      | 25-Apr-22    | GRAB        | 0.83               | 8              | <2         | <1                        | <1               | 0.11          |
| WVR-790     | 19 Glenmore Drive      | 9-May-22     | GRAB        | 0.58               | 10             | <2         | <1                        | <1               | 0.11          |
| WVR-790     | 19 Glenmore Drive      | 25-May-22    | GRAB        | 0.84               | 8              | <2         | <1                        | <1               | 0.16          |
| WVR-790     | 19 Glenmore Drive      | 6-Jun-22     | GRAB        | 0.56               | 13             | <2         | <1                        | <1               | 0.12          |
| WVR-790     | 19 Glenmore Drive      | 20-Jun-22    | GRAB        | 0.62               | 12             | <2         | <1                        | <1               | 0.16          |
| WVR-790     | 19 Glenmore Drive      | 4-Jul-22     | GRAB        | 0.66               | 12             | <2         | <1                        | <1               | 0.13          |
| WVR-790     | 19 Glenmore Drive      | 18-Jul-22    | GRAB        | 0.58               | 12             | <2         | <1                        | <1               | 0.16          |
| WVR-790     | 19 Glenmore Drive      | 3-Aug-22     | GRAB        | 0.65               | 17             | 6          | <1                        | <1               | 0.11          |
| WVR-790     | 19 Glenmore Drive      | 15-Aug-22    | GRAB        | 0.8                | 14             | <2         | <1                        | <1               | 0.21          |
| WVR-790     | 19 Glenmore Drive      | 29-Aug-22    | GRAB        | 0.75               | 15             | <2         | <1                        | <1               | 0.13          |
| WVR-790     | 19 Glenmore Drive      | 12-Sep-22    | GRAB        | 0.69               | 16             | <2         | <1                        | <1               | 0.13          |
| WVR-790     | 19 Glenmore Drive      | 26-Sep-22    | GRAB        | 0.84               | 15             | <2         | <1                        | <1               | 0.13          |
| WVR-790     | 19 Glenmore Drive      | 12-Oct-22    | GRAB        | 0.65               | 16             | 4          | <1                        | <1               | 0.17          |
| WVR-790     | 19 Glenmore Drive      | 24-Oct-22    | GRAB        | 0.91               | 14             | 10         | <1                        | <1               | 0.13          |
| WVR-790     | 19 Glenmore Drive      | 7-Nov-22     | GRAB        | 0.69               | 10             | <2         | <1                        | <1               | 0.17          |
| WVR-790     | 19 Glenmore Drive      | 21-Nov-22    | GRAB        | 0.64               | 9              | <2         | <1                        | <1               | 0.12          |
| WVR-790     | 19 Glenmore Drive      | 8-Dec-22     | GRAB        | 0.92               | 6              | <2         | <1                        | <1               | 0.18          |
| WVR-791     | 200 Keith Road         | 5-Jan-22     | GRAB        | 0.61               | 4              | <2         | <1                        | <1               | 0.15          |
| WVR-791     | 200 Keith Road         | 31-Jan-22    | GRAB        | 0.76               | 4              | <2         | <1                        | <1               | 0.12          |
| WVR-791     | 200 Keith Road         | 23-Feb-22    | GRAB        | 0.77               | 5              | 2          | <1                        | <1               | 0.1           |
| WVR-791     | 200 Keith Road         | 28-Feb-22    | GRAB        | 0.83               | 8              | <2         | <1                        | <1               | 0.15          |
| WVR-791     | 200 Keith Road         | 28-Mar-22    | GRAB        | 0.76               | 8              | <2         | <1                        | <1               | 0.18          |
| WVR-791     | 200 Keith Road         | 25-Apr-22    | GRAB        | 0.77               | 8              | 4          | <1                        | <1               | 0.11          |
| WVR-791     | 200 Keith Road         | 25-May-22    | GRAB        | 0.72               | 9              | <2         | <1                        | <1               | 0.25          |
| WVR-791     | 200 Keith Road         | 20-Jun-22    | GRAB        | 0.78               | 10             | 2          | <1                        | <1               | 0.29          |
| WVR-791     | 200 Keith Road         | 18-Jul-22    | GRAB        | 0.6                | 13             | 4          | <1                        | <1               | 0.15          |
| WVR-791     | 200 Keith Road         | 15-Aug-22    | GRAB        | 0.93               | 15             | <2         | <1                        | <1               | 0.37          |
| WVR-791     | 200 Keith Road         | 12-Sep-22    | GRAB        | 0.8                | 16             | <2         | <1                        | <1               | 0.54          |

| Sample Name | Sample Description | Sampled Date | Sample Type | Chlorine Free mg/L | Temperature °C | HPC CFU/mL | Total Coliform CFU/100mLs | Ecoli CFU/100mLs | Turbidity NTU |
|-------------|--------------------|--------------|-------------|--------------------|----------------|------------|---------------------------|------------------|---------------|
| WVR-791     | 200 Keith Road     | 12-Oct-22    | GRAB        | 0.5                | 14             | 2          | <1                        | <1               | 0.29          |
| WVR-791     | 200 Keith Road     | 7-Nov-22     | GRAB        | 0.89               | 9              | <2         | <1                        | <1               | 0.15          |
| WVR-791     | 200 Keith Road     | 8-Dec-22     | GRAB        | 0.9                | 6              | <2         | <1                        | <1               | 0.16          |
| WVR-792     | 76 Bonnymuir Drive | 5-Jan-22     | GRAB        | 0.68               | 4              | <2         | <1                        | <1               | 0.17          |
| WVR-792     | 76 Bonnymuir Drive | 17-Jan-22    | GRAB        | 0.72               | 5              | <2         | <1                        | <1               | 0.26          |
| WVR-792     | 76 Bonnymuir Drive | 31-Jan-22    | GRAB        | 0.64               | 4              | <2         | <1                        | <1               | 0.14          |
| WVR-792     | 76 Bonnymuir Drive | 14-Feb-22    | GRAB        | 0.66               | 7              | <2         | <1                        | <1               | 0.15          |
| WVR-792     | 76 Bonnymuir Drive | 23-Feb-22    | GRAB        | 0.62               | 6              | <2         | <1                        | <1               | 0.16          |
| WVR-792     | 76 Bonnymuir Drive | 28-Feb-22    | GRAB        | 0.81               | 8              | <2         | <1                        | <1               | 0.13          |
| WVR-792     | 76 Bonnymuir Drive | 14-Mar-22    | GRAB        | 0.84               | 7              | <2         | <1                        | <1               | 0.15          |
| WVR-792     | 76 Bonnymuir Drive | 28-Mar-22    | GRAB        | 0.59               | 8              | <2         | <1                        | <1               | 0.14          |
| WVR-792     | 76 Bonnymuir Drive | 11-Apr-22    | GRAB        | 0.68               | 7              | 2          | <1                        | <1               | 0.13          |
| WVR-792     | 76 Bonnymuir Drive | 25-Apr-22    | GRAB        | 0.82               | 9              | 2          | <1                        | <1               | 0.12          |
| WVR-792     | 76 Bonnymuir Drive | 9-May-22     | GRAB        | 0.56               | 10             | 4          | <1                        | <1               | 0.12          |
| WVR-792     | 76 Bonnymuir Drive | 25-May-22    | GRAB        | 0.58               | 9              | <2         | <1                        | <1               | 0.14          |
| WVR-792     | 76 Bonnymuir Drive | 6-Jun-22     | GRAB        | 0.59               | 11             | <2         | <1                        | <1               | 0.14          |
| WVR-792     | 76 Bonnymuir Drive | 20-Jun-22    | GRAB        | 0.56               | 11             | 2          | <1                        | <1               | 0.17          |
| WVR-792     | 76 Bonnymuir Drive | 4-Jul-22     | GRAB        | 0.58               | 11             | 2          | <1                        | <1               | 0.22          |
| WVR-792     | 76 Bonnymuir Drive | 18-Jul-22    | GRAB        | 0.52               | 14             | <2         | <1                        | <1               | 0.13          |
| WVR-792     | 76 Bonnymuir Drive | 3-Aug-22     | GRAB        | 0.67               | 16             | <2         | <1                        | <1               | 0.14          |
| WVR-792     | 76 Bonnymuir Drive | 15-Aug-22    | GRAB        | 0.62               | 15             | <2         | <1                        | <1               | 0.29          |
| WVR-792     | 76 Bonnymuir Drive | 29-Aug-22    | GRAB        | 0.62               | 15             | <2         | <1                        | <1               | 0.17          |
| WVR-792     | 76 Bonnymuir Drive | 12-Sep-22    | GRAB        | 0.61               | 16             | <2         | <1                        | <1               | 0.14          |
| WVR-792     | 76 Bonnymuir Drive | 26-Sep-22    | GRAB        | 0.69               | 15             | <2         | <1                        | <1               | 0.15          |
| WVR-792     | 76 Bonnymuir Drive | 12-Oct-22    | GRAB        | 0.61               | 16             | <2         | <1                        | <1               | 0.15          |
| WVR-792     | 76 Bonnymuir Drive | 24-Oct-22    | GRAB        | 0.9                | 14             | <2         | <1                        | <1               | 0.27          |
| WVR-792     | 76 Bonnymuir Drive | 7-Nov-22     | GRAB        | 0.46               | 10             | <2         | <1                        | <1               | 0.13          |
| WVR-792     | 76 Bonnymuir Drive | 21-Nov-22    | GRAB        | 0.5                | 9              | 8          | <1                        | <1               | 0.31          |
| WVR-792     | 76 Bonnymuir Drive | 8-Dec-22     | GRAB        | 0.8                | 6              | <2         | <1                        | <1               | 0.24          |
| WVR-793     | 559 Kildonan Road  | 5-Jan-22     | GRAB        | 0.73               | 4              | <2         | <1                        | <1               | 0.2           |
| WVR-793     | 559 Kildonan Road  | 31-Jan-22    | GRAB        | 0.46               | 4              | <2         | <1                        | <1               | 0.14          |
| WVR-793     | 559 Kildonan Road  | 23-Feb-22    | GRAB        | 0.6                | 6              | 2          | <1                        | <1               | 0.15          |
| WVR-793     | 559 Kildonan Road  | 28-Feb-22    | GRAB        | 0.66               | 8              | <2         | <1                        | <1               | 0.15          |
| WVR-793     | 559 Kildonan Road  | 28-Mar-22    | GRAB        | 0.54               | 8              | <2         | <1                        | <1               | 0.11          |
| WVR-793     | 559 Kildonan Road  | 25-Apr-22    | GRAB        | 0.68               | 8              | <2         | <1                        | <1               | 0.1           |
| WVR-793     | 559 Kildonan Road  | 25-May-22    | GRAB        | 0.47               | 9              | <2         | <1                        | <1               | 0.13          |
| WVR-793     | 559 Kildonan Road  | 20-Jun-22    | GRAB        | 0.38               | 14             | 6          | <1                        | <1               | 0.1           |
| WVR-793     | 559 Kildonan Road  | 18-Jul-22    | GRAB        | 0.28               | 15             | 12         | <1                        | <1               | 0.12          |
| WVR-793     | 559 Kildonan Road  | 15-Aug-22    | GRAB        | 0.35               | 15             | 130        | <1                        | <1               | 0.2           |
| WVR-793     | 559 Kildonan Road  | 12-Sep-22    | GRAB        | 0.33               | 16             | 140        | <1                        | <1               | 0.16          |
| WVR-793     | 559 Kildonan Road  | 12-Oct-22    | GRAB        | 0.36               | 15             | 96         | <1                        | <1               | 0.14          |
| WVR-793     | 559 Kildonan Road  | 7-Nov-22     | GRAB        | 0.33               | 8              | <2         | <1                        | <1               | 0.11          |
| WVR-793     | 559 Kildonan Road  | 8-Dec-22     | GRAB        | 0.71               | 6              | <2         | <1                        | <1               | 0.2           |
| WVR-794     | 702 Barnham Road   | 5-Jan-22     | GRAB        | 0.91               | 4              | <2         | <1                        | <1               | 0.1           |
| WVR-794     | 702 Barnham Road   | 31-Jan-22    | GRAB        | 0.61               | 4              | 2          | <1                        | <1               | 0.14          |
| WVR-794     | 702 Barnham Road   | 23-Feb-22    | GRAB        | 0.93               | 6              | <2         | <1                        | <1               | 0.13          |
| WVR-794     | 702 Barnham Road   | 28-Feb-22    | GRAB        | 0.84               | 8              | 4          | <1                        | <1               | 0.18          |
| WVR-794     | 702 Barnham Road   | 28-Mar-22    | GRAB        | 0.71               | 8              | <2         | <1                        | <1               | 0.13          |
| WVR-794     | 702 Barnham Road   | 25-Apr-22    | GRAB        | 0.81               | 9              | <2         | <1                        | <1               | 0.12          |
| WVR-794     | 702 Barnham Road   | 25-May-22    | GRAB        | 0.32               | 10             | <2         | <1                        | <1               | 0.2           |
| WVR-794     | 702 Barnham Road   | 20-Jun-22    | GRAB        | 0.57               | 13             | <2         | <1                        | <1               | 0.12          |
| WVR-794     | 702 Barnham Road   | 18-Jul-22    | GRAB        | 0.48               | 15             | <2         | <1                        | <1               | 0.2           |
| WVR-794     | 702 Barnham Road   | 15-Aug-22    | GRAB        | 0.64               | 17             | <2         | <1                        | <1               | 0.26          |
| WVR-794     | 702 Barnham Road   | 12-Sep-22    | GRAB        | 0.65               | 17             | <2         | <1                        | <1               | 0.27          |

| Sample Name | Sample Description | Sampled Date | Sample Type | Chlorine Free mg/L | Temperature °C | HPC CFU/mL | Total Coliform CFU/100mLs | Ecoli CFU/100mLs | Turbidity NTU |
|-------------|--------------------|--------------|-------------|--------------------|----------------|------------|---------------------------|------------------|---------------|
| WVR-794     | 702 Barnham Road   | 12-Oct-22    | GRAB        | 0.57               | 17             | 16         | <1                        | <1               | 0.15          |
| WVR-794     | 702 Barnham Road   | 7-Nov-22     | GRAB        | 0.46               | 9              | <2         | <1                        | <1               | 0.14          |
| WVR-794     | 702 Barnham Road   | 8-Dec-22     | GRAB        | 0.64               | 5              | <2         | <1                        | <1               | 0.19          |
| WVR-795     | 620 Kenwood Road   | 5-Jan-22     | GRAB        | 0.91               | 4              | <2         | <1                        | <1               | 0.1           |
| WVR-795     | 620 Kenwood Road   | 31-Jan-22    | GRAB        | 0.51               | 4              | <2         | <1                        | <1               | 0.2           |
| WVR-795     | 620 Kenwood Road   | 23-Feb-22    | GRAB        | 0.95               | 6              | 2          | <1                        | <1               | 0.13          |
| WVR-795     | 620 Kenwood Road   | 28-Feb-22    | GRAB        | 0.7                | 8              | 6          | <1                        | <1               | 0.19          |
| WVR-795     | 620 Kenwood Road   | 28-Mar-22    | GRAB        | 0.63               | 8              | <2         | <1                        | <1               | 0.21          |
| WVR-795     | 620 Kenwood Road   | 25-Apr-22    | GRAB        | 0.55               | 9              | 2          | <1                        | <1               | 0.13          |
| WVR-795     | 620 Kenwood Road   | 25-May-22    | GRAB        | 0.69               | 11             | <2         | <1                        | <1               | 0.21          |
| WVR-795     | 620 Kenwood Road   | 20-Jun-22    | GRAB        | 0.61               | 13             | 4          | <1                        | <1               | 0.44          |
| WVR-795     | 620 Kenwood Road   | 18-Jul-22    | GRAB        | 0.59               | 15             | 2          | <1                        | <1               | 0.18          |
| WVR-795     | 620 Kenwood Road   | 15-Aug-22    | GRAB        | 0.72               | 16             | <2         | <1                        | <1               | 0.23          |
| WVR-795     | 620 Kenwood Road   | 12-Sep-22    | GRAB        | 0.66               | 17             | 16         | <1                        | <1               | 0.18          |
| WVR-795     | 620 Kenwood Road   | 12-Oct-22    | GRAB        | 0.61               | 17             | 8          | <1                        | <1               | 0.22          |
| WVR-795     | 620 Kenwood Road   | 7-Nov-22     | GRAB        | 0.33               | 10             | 42         | <1                        | <1               | 0.26          |
| WVR-795     | 620 Kenwood Road   | 8-Dec-22     | GRAB        | 0.52               | 5              | 78         | <1                        | <1               | 0.76          |
| WVR-796     | 315 Mathers Avenue | 5-Jan-22     | GRAB        | 0.61               | 4              | <2         | <1                        | <1               | 0.14          |
| WVR-796     | 315 Mathers Avenue | 17-Jan-22    | GRAB        | 0.48               | 5              | <2         | <1                        | <1               | 0.18          |
| WVR-796     | 315 Mathers Avenue | 31-Jan-22    | GRAB        | 0.73               | 4              | 18         | <1                        | <1               | 0.14          |
| WVR-796     | 315 Mathers Avenue | 14-Feb-22    | GRAB        | 0.65               | 6              | <2         | <1                        | <1               | 0.14          |
| WVR-796     | 315 Mathers Avenue | 23-Feb-22    | GRAB        | 0.77               | 5              | <2         | <1                        | <1               | 0.21          |
| WVR-796     | 315 Mathers Avenue | 28-Feb-22    | GRAB        | 0.92               | 8              | <2         | <1                        | <1               | 0.13          |
| WVR-796     | 315 Mathers Avenue | 14-Mar-22    | GRAB        | 0.75               | 7              | <2         | <1                        | <1               | 0.12          |
| WVR-796     | 315 Mathers Avenue | 28-Mar-22    | GRAB        | 0.76               | 8              | <2         | <1                        | <1               | 0.11          |
| WVR-796     | 315 Mathers Avenue | 11-Apr-22    | GRAB        | 0.72               | 8              | 2          | <1                        | <1               | 0.1           |
| WVR-796     | 315 Mathers Avenue | 25-Apr-22    | GRAB        | 0.96               | 9              | 4          | <1                        | <1               | 0.1           |
| WVR-796     | 315 Mathers Avenue | 9-May-22     | GRAB        | 0.72               | 11             | <2         | <1                        | <1               | 0.11          |
| WVR-796     | 315 Mathers Avenue | 25-May-22    | GRAB        | 0.74               | 10             | <2         | <1                        | <1               | 0.14          |
| WVR-796     | 315 Mathers Avenue | 6-Jun-22     | GRAB        | 0.7                | 10             | <2         | <1                        | <1               | 0.14          |
| WVR-796     | 315 Mathers Avenue | 20-Jun-22    | GRAB        | 0.65               | 10             | <2         | <1                        | <1               | 0.13          |
| WVR-796     | 315 Mathers Avenue | 4-Jul-22     | GRAB        | 0.69               | 11             | <2         | <1                        | <1               | 0.24          |
| WVR-796     | 315 Mathers Avenue | 18-Jul-22    | GRAB        | 0.49               | 15             | 2          | <1                        | <1               | 0.21          |
| WVR-796     | 315 Mathers Avenue | 3-Aug-22     | GRAB        | 0.72               | 17             | <2         | <1                        | <1               | 0.12          |
| WVR-796     | 315 Mathers Avenue | 15-Aug-22    | GRAB        | 0.72               | 17             | <2         | <1                        | <1               | 0.14          |
| WVR-796     | 315 Mathers Avenue | 29-Aug-22    | GRAB        | 0.53               | 18             | 24         | <1                        | <1               | 0.22          |
| WVR-796     | 315 Mathers Avenue | 12-Sep-22    | GRAB        | 0.7                | 17             | <2         | <1                        | <1               | 0.13          |
| WVR-796     | 315 Mathers Avenue | 26-Sep-22    | GRAB        | 0.79               | 16             | <2         | <1                        | <1               | 0.15          |
| WVR-796     | 315 Mathers Avenue | 12-Oct-22    | GRAB        | 0.72               | 16             | <2         | <1                        | <1               | 0.17          |
| WVR-796     | 315 Mathers Avenue | 24-Oct-22    | GRAB        | 0.9                | 16             | <2         | <1                        | <1               | 0.15          |
| WVR-796     | 315 Mathers Avenue | 7-Nov-22     | GRAB        | 0.79               | 10             | 2          | <1                        | <1               | 0.14          |
| WVR-796     | 315 Mathers Avenue | 21-Nov-22    | GRAB        | 0.7                | 11             | <2         | <1                        | <1               | 0.13          |
| WVR-796     | 315 Mathers Avenue | 8-Dec-22     | GRAB        | 0.94               | 6              | <2         | <1                        | <1               | 0.28          |
| WVR-797     | 395 Klahanie Court | 17-Jan-22    | GRAB        | 0.32               | 5              | <2         | <1                        | <1               | 0.21          |
| WVR-797     | 395 Klahanie Court | 14-Feb-22    | GRAB        | 0.74               | 6              | <2         | <1                        | <1               | 0.15          |
| WVR-797     | 395 Klahanie Court | 14-Mar-22    | GRAB        | 0.71               | 7              | 2          | <1                        | <1               | 0.16          |
| WVR-797     | 395 Klahanie Court | 11-Apr-22    | GRAB        | 0.65               | 8              | 2          | <1                        | <1               | 0.11          |
| WVR-797     | 395 Klahanie Court | 9-May-22     | GRAB        | 0.47               | 10             | 2          | <1                        | <1               | 0.14          |
| WVR-797     | 395 Klahanie Court | 6-Jun-22     | GRAB        | 0.33               | 12             | 2000       | <1                        | <1               | 0.4           |
| WVR-797     | 395 Klahanie Court | 4-Jul-22     | GRAB        | 0.63               | 12             | 240        | <1                        | <1               | 0.17          |
| WVR-797     | 395 Klahanie Court | 3-Aug-22     | GRAB        | 0.68               | 17             | 96         | <1                        | <1               | 0.18          |
| WVR-797     | 395 Klahanie Court | 29-Aug-22    | GRAB        | 0.77               | 18             | 66         | <1                        | <1               | 0.18          |

| Sample Name | Sample Description   | Sampled Date | Sample Type | Chlorine Free mg/L | Temperature °C | HPC CFU/mL | Total Coliform CFU/100mLs | Ecoli CFU/100mLs | Turbidity NTU |
|-------------|----------------------|--------------|-------------|--------------------|----------------|------------|---------------------------|------------------|---------------|
| WVR-797     | 395 Klahanie Court   | 26-Sep-22    | GRAB        | 0.71               | 17             | 98         | <1                        | <1               | 0.22          |
| WVR-797     | 395 Klahanie Court   | 24-Oct-22    | GRAB        | 0.56               | 15             | 2000       | <1                        | <1               | 0.45          |
| WVR-797     | 395 Klahanie Court   | 21-Nov-22    | GRAB        | 0.67               | 10             | 6          | <1                        | <1               | 0.22          |
| WEAG-710    | 4782 Woodgreen Drive | 24-Jan-22    | GRAB        | 1.14               | 4              | <2         | <1                        | <1               | 0.09          |
| WEAG-710    | 4782 Woodgreen Drive | 21-Mar-22    | GRAB        | 0.87               | 6              | <2         | <1                        | <1               | 0.12          |
| WEAG-710    | 4782 Woodgreen Drive | 20-Apr-22    | GRAB        | 0.86               | 7              | <2         | <1                        | <1               | 0.06          |
| WEAG-710    | 4782 Woodgreen Drive | 16-May-22    | GRAB        | 1.15               | 10             | 2          | <1                        | <1               | 0.08          |
| WEAG-710    | 4782 Woodgreen Drive | 13-Jun-22    | GRAB        | 1.24               | 12             | 2          | <1                        | <1               | 0.08          |
| WEAG-710    | 4782 Woodgreen Drive | 11-Jul-22    | GRAB        | 1.24               | 15             | <2         | <1                        | <1               | 0.09          |
| WEAG-710    | 4782 Woodgreen Drive | 8-Aug-22     | GRAB        | 1.41               | 21             | <2         | <1                        | <1               | 0.07          |
| WEAG-710    | 4782 Woodgreen Drive | 7-Sep-22     | GRAB        | 1.53               | 19             | <2         | <1                        | <1               | 0.09          |
| WEAG-710    | 4782 Woodgreen Drive | 3-Oct-22     | GRAB        | 1.28               | 14             | <2         | <1                        | <1               | 0.16          |
| WEAG-710    | 4782 Woodgreen Drive | 31-Oct-22    | GRAB        | 1.45               | 13             | 14         | <1                        | <1               | 0.13          |
| WEAG-710    | 4782 Woodgreen Drive | 29-Nov-22    | GRAB        | 1.2                | 6              | 10         | <1                        | <1               | 0.09          |
| WEAG-711    | 1020 Groveland Rd.   | 15-Aug-22    | GRAB        | 0.72               | 17             | 6          | <1                        | <1               | 0.18          |
| WEAG-712    | 510 Ballantree Road  | 15-Aug-22    | GRAB        | 0.5                | 15             | <2         | <1                        | <1               | 0.2           |
| WEAG-716    | The Dale & Marine    | 10-Jan-22    | GRAB        | 0.81               | 4              | 2          | <1                        | <1               | 0.15          |
| WEAG-716    | The Dale & Marine    | 24-Jan-22    | GRAB        | 0.59               | 8              | <2         | <1                        | <1               | 0.13          |
| WEAG-716    | The Dale & Marine    | 7-Feb-22     | GRAB        | 0.69               | 7              | <2         | <1                        | <1               | 0.23          |
| WEAG-716    | The Dale & Marine    | 7-Mar-22     | GRAB        | 0.72               | 6              | <2         | <1                        | <1               | 0.12          |
| WEAG-716    | The Dale & Marine    | 21-Mar-22    | GRAB        | 0.48               | 6              | <2         | <1                        | <1               | 0.12          |
| WEAG-716    | The Dale & Marine    | 4-Apr-22     | GRAB        | 0.67               | 9              | <2         | <1                        | <1               | 0.12          |
| WEAG-716    | The Dale & Marine    | 20-Apr-22    | GRAB        | 0.61               | 10             | <2         | <1                        | <1               | 0.14          |
| WEAG-716    | The Dale & Marine    | 2-May-22     | GRAB        | 0.8                | 11             | 2          | <1                        | <1               | 0.12          |
| WEAG-716    | The Dale & Marine    | 16-May-22    | GRAB        | 0.66               | 11             | <2         | <1                        | <1               | 0.09          |
| WEAG-716    | The Dale & Marine    | 30-May-22    | GRAB        | 0.56               | 13             | <2         | <1                        | <1               | 0.1           |
| WEAG-716    | The Dale & Marine    | 13-Jun-22    | GRAB        | 0.64               | 13             | 2          | <1                        | <1               | 0.09          |
| WEAG-716    | The Dale & Marine    | 27-Jun-22    | GRAB        | 0.83               | 14             | <2         | <1                        | <1               | 0.13          |
| WEAG-716    | The Dale & Marine    | 11-Jul-22    | GRAB        | 0.64               | 16             | 2          | <1                        | <1               | 0.11          |
| WEAG-716    | The Dale & Marine    | 25-Jul-22    | GRAB        | 0.87               | 19             | 20         | <1                        | <1               | 0.1           |
| WEAG-716    | The Dale & Marine    | 8-Aug-22     | GRAB        | 1.06               | 20             | 8          | <1                        | <1               | 0.15          |
| WEAG-716    | The Dale & Marine    | 22-Aug-22    | GRAB        | 0.75               | 22             | 6          | <1                        | <1               | 0.21          |
| WEAG-716    | The Dale & Marine    | 7-Sep-22     | GRAB        | 1.07               | 21             | 10         | <1                        | <1               | 0.27          |
| WEAG-716    | The Dale & Marine    | 21-Sep-22    | GRAB        | 1.02               | 16             | 14         | <1                        | <1               | 0.23          |
| WEAG-716    | The Dale & Marine    | 3-Oct-22     | GRAB        | 0.87               | 16             | <2         | <1                        | <1               | 0.12          |
| WEAG-716    | The Dale & Marine    | 17-Oct-22    | GRAB        | 0.92               | 16             | 32         | <1                        | <1               | 0.14          |
| WEAG-716    | The Dale & Marine    | 31-Oct-22    | GRAB        | 1.01               | 14             | 8          | <1                        | <1               | 0.12          |
| WEAG-716    | The Dale & Marine    | 14-Nov-22    | GRAB        | 0.7                | 10             | 6          | <1                        | <1               | 0.16          |
| WEAG-716    | The Dale & Marine    | 29-Nov-22    | GRAB        | 0.71               | 7              | <2         | <1                        | <1               | 0.18          |
| WEAG-716    | The Dale & Marine    | 12-Dec-22    | GRAB        | 0.86               | 8              | 4          | <1                        | <1               | 0.23          |
| WEAG-719    | 2600 Chelsea Court   | 5-Jan-22     | GRAB        | 0.51               | 4              | 2          | <1                        | <1               | 0.24          |
| WEAG-719    | 2600 Chelsea Court   | 17-Jan-22    | GRAB        | 0.37               | 5              | <2         | <1                        | <1               | 0.34          |
| WEAG-719    | 2600 Chelsea Court   | 31-Jan-22    | GRAB        | 0.51               | 4              | 8          | <1                        | <1               | 0.58          |
| WEAG-719    | 2600 Chelsea Court   | 14-Feb-22    | GRAB        | 0.36               | 8              | 2          | <1                        | <1               | 0.23          |
| WEAG-719    | 2600 Chelsea Court   | 23-Feb-22    | GRAB        | 0.64               | 6              | 2          | <1                        | <1               | 0.88          |
| WEAG-719    | 2600 Chelsea Court   | 28-Feb-22    | GRAB        | 0.73               | 8              | <2         | <1                        | <1               | 0.24          |
| WEAG-719    | 2600 Chelsea Court   | 14-Mar-22    | GRAB        | 0.65               | 7              | 16         | <1                        | <1               | 0.19          |
| WEAG-719    | 2600 Chelsea Court   | 28-Mar-22    | GRAB        | 0.85               | 8              | 6          | <1                        | <1               | 0.16          |
| WEAG-719    | 2600 Chelsea Court   | 11-Apr-22    | GRAB        | 0.65               | 9              | 38         | <1                        | <1               | 0.27          |
| WEAG-719    | 2600 Chelsea Court   | 25-Apr-22    | GRAB        | 0.62               | 9              | 280        | <1                        | <1               | 0.55          |
| WEAG-719    | 2600 Chelsea Court   | 9-May-22     | GRAB        | 0.62               | 10             | 230        | <1                        | <1               | 0.72          |
| WEAG-719    | 2600 Chelsea Court   | 25-May-22    | GRAB        | 0.5                | 13             | 8          | 1                         | <1               | 0.21          |
| WEAG-719    | 2600 Chelsea Court   | 6-Jun-22     | GRAB        | 1.09               | 12             | <2         | <1                        | <1               | 0.28          |

| Sample Name | Sample Description    | Sampled Date | Sample Type | Chlorine Free mg/L | Temperature °C | HPC CFU/mL | Total Coliform CFU/100mLs | Ecoli CFU/100mLs | Turbidity NTU |
|-------------|-----------------------|--------------|-------------|--------------------|----------------|------------|---------------------------|------------------|---------------|
| WEAG-719    | 2600 Chelsea Court    | 20-Jun-22    | GRAB        | 1.06               | 13             | <2         | <1                        | <1               | 0.18          |
| WEAG-719    | 2600 Chelsea Court    | 4-Jul-22     | GRAB        | 0.99               | 12             | <2         | <1                        | <1               | <0.06         |
| WEAG-719    | 2600 Chelsea Court    | 18-Jul-22    | GRAB        | 0.9                | 15             | 2          | <1                        | <1               | 0.16          |
| WEAG-719    | 2600 Chelsea Court    | 3-Aug-22     | GRAB        | 1.16               | 22             | <2         | <1                        | <1               | 0.11          |
| WEAG-719    | 2600 Chelsea Court    | 15-Aug-22    | GRAB        | 1.24               | 21             | 2          | <1                        | <1               | 0.35          |
| WEAG-719    | 2600 Chelsea Court    | 29-Aug-22    | GRAB        | 0.7                | 20             | <2         | <1                        | <1               | 0.14          |
| WEAG-719    | 2600 Chelsea Court    | 12-Sep-22    | GRAB        | 0.98               | 20             | <2         | <1                        | <1               | 0.13          |
| WEAG-719    | 2600 Chelsea Court    | 24-Oct-22    | GRAB        | 0.79               | 15             | 2          | <1                        | <1               | 0.14          |
| WEAG-719    | 2600 Chelsea Court    | 7-Nov-22     | GRAB        | 1.14               | 8              | <2         | <1                        | <1               | 0.1           |
| WEAG-719    | 2600 Chelsea Court    | 21-Nov-22    | GRAB        | 1.26               | 10             | <2         | <1                        | <1               | 0.48          |
| WEAG-719    | 2600 Chelsea Court    | 8-Dec-22     | GRAB        | 0.73               | 5              | <2         | <1                        | <1               | 0.11          |
| WEAG-765    | 5459 West Vista Court | 10-Jan-22    | GRAB        | 0.97               | 4              | 4          | <1                        | <1               | 0.26          |
| WEAG-765    | 5459 West Vista Court | 7-Feb-22     | GRAB        | 0.86               | 7              | <2         | <1                        | <1               | 0.13          |
| WEAG-765    | 5459 West Vista Court | 7-Mar-22     | GRAB        | 0.99               | 6              | <2         | <1                        | <1               | 0.11          |
| WEAG-765    | 5459 West Vista Court | 4-Apr-22     | GRAB        | 0.99               | 9              | 4          | <1                        | <1               | 0.09          |
| WEAG-765    | 5459 West Vista Court | 2-May-22     | GRAB        | 1.01               | 10             | 6          | <1                        | <1               | 0.13          |
| WEAG-765    | 5459 West Vista Court | 30-May-22    | GRAB        | 0.7                | 12             | 2          | <1                        | <1               | 0.12          |
| WEAG-765    | 5459 West Vista Court | 27-Jun-22    | GRAB        | 1.01               | 15             | 16         | <1                        | <1               | 0.15          |
| WEAG-765    | 5459 West Vista Court | 25-Jul-22    | GRAB        | 1.07               | 19             | 4          | <1                        | <1               | 0.17          |
| WEAG-765    | 5459 West Vista Court | 22-Aug-22    | GRAB        | 0.98               | 23             | 40         | <1                        | <1               | 0.24          |
| WEAG-765    | 5459 West Vista Court | 21-Sep-22    | GRAB        | 1.13               | 16             | <2         | <1                        | <1               | 0.27          |
| WEAG-765    | 5459 West Vista Court | 17-Oct-22    | GRAB        | 1.11               | 16             | 130        | <1                        | <1               | 0.26          |
| WEAG-765    | 5459 West Vista Court | 14-Nov-22    | GRAB        | 0.9                | 10             | 2          | <1                        | <1               | 0.15          |
| WEAG-765    | 5459 West Vista Court | 12-Dec-22    | GRAB        | 1.04               | 7              | <2         | <1                        | <1               | 0.29          |
| WEAG-768    | 2185 Gisby Street     | 17-Jan-22    | GRAB        | 1.14               | 5              | 2          | <1                        | <1               | 0.13          |
| WEAG-768    | 2185 Gisby Street     | 14-Feb-22    | GRAB        | 1.06               | 6              | <2         | <1                        | <1               | 0.09          |
| WEAG-768    | 2185 Gisby Street     | 14-Mar-22    | GRAB        | 1.16               | 7              | <2         | <1                        | <1               | 0.12          |
| WEAG-768    | 2185 Gisby Street     | 11-Apr-22    | GRAB        | 0.82               | 9              | <2         | <1                        | <1               | 0.07          |
| WEAG-768    | 2185 Gisby Street     | 9-May-22     | GRAB        | 0.92               | 10             | <2         | <1                        | <1               | 0.1           |
| WEAG-768    | 2185 Gisby Street     | 6-Jun-22     | GRAB        | 0.92               | 13             | <2         | <1                        | <1               | 0.07          |
| WEAG-768    | 2185 Gisby Street     | 4-Jul-22     | GRAB        | 0.92               | 13             | 2          | <1                        | <1               | 0.07          |
| WEAG-768    | 2185 Gisby Street     | 3-Aug-22     | GRAB        | 0.64               | 17             | 70         | <1                        | <1               | 0.16          |
| WEAG-768    | 2185 Gisby Street     | 29-Aug-22    | GRAB        | 0.71               | 16             | 2          | <1                        | <1               | 0.1           |
| WEAG-768    | 2185 Gisby Street     | 24-Oct-22    | GRAB        | 0.74               | 15             | 2          | <1                        | <1               | 0.1           |
| WEAG-768    | 2185 Gisby Street     | 21-Nov-22    | GRAB        | 1.22               | 10             | <2         | <1                        | <1               | 0.13          |
| WEAG-769    | 1210 Chartwell Drive  | 24-Jan-22    | GRAB        | 0.92               | 7              | <2         | <1                        | <1               | 0.1           |
| WEAG-769    | 1210 Chartwell Drive  | 21-Mar-22    | GRAB        | 0.56               | 6              | <2         | <1                        | <1               | 0.26          |
| WEAG-769    | 1210 Chartwell Drive  | 20-Apr-22    | GRAB        | 0.54               | 8              | <2         | <1                        | <1               | 0.15          |
| WEAG-769    | 1210 Chartwell Drive  | 16-May-22    | GRAB        | 0.54               | 11             | 30         | <1                        | <1               | 0.18          |
| WEAG-769    | 1210 Chartwell Drive  | 13-Jun-22    | GRAB        | 0.47               | 13             | 38         | <1                        | <1               | 0.13          |
| WEAG-769    | 1210 Chartwell Drive  | 11-Jul-22    | GRAB        | 0.78               | 13             | <2         | <1                        | <1               | 0.14          |
| WEAG-769    | 1210 Chartwell Drive  | 8-Aug-22     | GRAB        | 0.98               | 20             | 120        | <1                        | <1               | 0.57          |
| WEAG-769    | 1210 Chartwell Drive  | 7-Sep-22     | GRAB        | 0.71               | 17             | <2         | <1                        | <1               | 0.15          |
| WEAG-769    | 1210 Chartwell Drive  | 3-Oct-22     | GRAB        | 0.76               | 16             | 20         | <1                        | <1               | 0.22          |
| WEAG-769    | 1210 Chartwell Drive  | 31-Oct-22    | GRAB        | 0.61               | 13             | 18         | <1                        | <1               | 0.17          |
| WEAG-769    | 1210 Chartwell Drive  | 29-Nov-22    | GRAB        | 0.58               | 7              | <2         | <1                        | <1               | 0.14          |
| WEAG-770    | 3828 Bayridge Avenue  | 10-Jan-22    | GRAB        | 1.06               | 4              | <2         | <1                        | <1               | 0.24          |
| WEAG-770    | 3828 Bayridge Avenue  | 24-Jan-22    | GRAB        | 0.51               | 5              | <2         | <1                        | <1               | 0.14          |
| WEAG-770    | 3828 Bayridge Avenue  | 7-Feb-22     | GRAB        | 0.77               | 7              | 4          | <1                        | <1               | 0.12          |
| WEAG-770    | 3828 Bayridge Avenue  | 7-Mar-22     | GRAB        | 0.75               | 6              | <2         | <1                        | <1               | 0.14          |
| WEAG-770    | 3828 Bayridge Avenue  | 21-Mar-22    | GRAB        | 0.56               | 6              | <2         | <1                        | <1               | 0.18          |
| WEAG-770    | 3828 Bayridge Avenue  | 4-Apr-22     | GRAB        | 0.66               | 9              | <2         | <1                        | <1               | 0.13          |
| WEAG-770    | 3828 Bayridge Avenue  | 20-Apr-22    | GRAB        | 0.59               | 9              | 2          | <1                        | <1               | 0.13          |

| Sample Name | Sample Description    | Sampled Date | Sample Type | Chlorine Free mg/L | Temperature °C | HPC CFU/mL | Total Coliform CFU/100mLs | Ecoli CFU/100mLs | Turbidity NTU |
|-------------|-----------------------|--------------|-------------|--------------------|----------------|------------|---------------------------|------------------|---------------|
| WEAG-770    | 3828 Bayridge Avenue  | 2-May-22     | GRAB        | 0.63               | 10             | 2          | <1                        | <1               | 0.12          |
| WEAG-770    | 3828 Bayridge Avenue  | 16-May-22    | GRAB        | 0.56               | 11             | 4          | <1                        | <1               | 0.14          |
| WEAG-770    | 3828 Bayridge Avenue  | 30-May-22    | GRAB        | 0.6                | 10             | 4          | <1                        | <1               | 0.13          |
| WEAG-770    | 3828 Bayridge Avenue  | 13-Jun-22    | GRAB        | 0.52               | 13             | <2         | <1                        | <1               | 0.11          |
| WEAG-770    | 3828 Bayridge Avenue  | 27-Jun-22    | GRAB        | 0.73               | 14             | <2         | <1                        | <1               | 0.25          |
| WEAG-770    | 3828 Bayridge Avenue  | 11-Jul-22    | GRAB        | 0.57               | 13             | <2         | <1                        | <1               | 0.16          |
| WEAG-770    | 3828 Bayridge Avenue  | 25-Jul-22    | GRAB        | 0.57               | 18             | 2          | <1                        | <1               | 0.19          |
| WEAG-770    | 3828 Bayridge Avenue  | 8-Aug-22     | GRAB        | 0.72               | 18             | <2         | <1                        | <1               | 0.15          |
| WEAG-770    | 3828 Bayridge Avenue  | 22-Aug-22    | GRAB        | 0.66               | 19             | 2          | <1                        | <1               | 0.12          |
| WEAG-770    | 3828 Bayridge Avenue  | 7-Sep-22     | GRAB        | 0.62               | 19             | <2         | <1                        | <1               | 0.17          |
| WEAG-770    | 3828 Bayridge Avenue  | 21-Sep-22    | GRAB        | 0.75               | 17             | NA         | <1                        | <1               | 0.16          |
| WEAG-770    | 3828 Bayridge Avenue  | 3-Oct-22     | GRAB        | 0.75               | 15             | 2          | <1                        | <1               | 0.16          |
| WEAG-770    | 3828 Bayridge Avenue  | 17-Oct-22    | GRAB        | 0.52               | 16             | 6          | <1                        | <1               | 0.12          |
| WEAG-770    | 3828 Bayridge Avenue  | 31-Oct-22    | GRAB        | 0.54               | 13             | 12         | <1                        | <1               | 0.14          |
| WEAG-770    | 3828 Bayridge Avenue  | 14-Nov-22    | GRAB        | 0.4                | 9              | 4          | <1                        | <1               | 0.18          |
| WEAG-770    | 3828 Bayridge Avenue  | 29-Nov-22    | GRAB        | 0.55               | 7              | 18         | <1                        | <1               | 0.12          |
| WEAG-770    | 3828 Bayridge Avenue  | 12-Dec-22    | GRAB        | 0.63               | 8              | <2         | <1                        | <1               | 0.18          |
| WEAG-771    | 6588 Royal Ave.       | 10-Jan-22    | GRAB        | 0.51               | 4              | 8          | <1                        | <1               | 0.18          |
| WEAG-771    | 6588 Royal Ave.       | 24-Jan-22    | GRAB        | 0.71               | 7              | 2          | <1                        | <1               | 0.19          |
| WEAG-771    | 6588 Royal Ave.       | 7-Feb-22     | GRAB        | 0.76               | 7              | 2          | <1                        | <1               | 0.16          |
| WEAG-771    | 6588 Royal Ave.       | 7-Mar-22     | GRAB        | 0.81               | 6              | <2         | <1                        | <1               | 0.15          |
| WEAG-771    | 6588 Royal Ave.       | 21-Mar-22    | GRAB        | 0.56               | 6              | 2          | <1                        | <1               | 0.16          |
| WEAG-771    | 6588 Royal Ave.       | 4-Apr-22     | GRAB        | 0.84               | 9              | 6          | <1                        | <1               | 0.42          |
| WEAG-771    | 6588 Royal Ave.       | 20-Apr-22    | GRAB        | 0.71               | 8              | <2         | <1                        | <1               | 0.13          |
| WEAG-771    | 6588 Royal Ave.       | 2-May-22     | GRAB        | 0.96               | 10             | <2         | <1                        | <1               | 0.12          |
| WEAG-771    | 6588 Royal Ave.       | 16-May-22    | GRAB        | 0.65               | 12             | <2         | <1                        | <1               | 0.1           |
| WEAG-771    | 6588 Royal Ave.       | 30-May-22    | GRAB        | 0.51               | 14             | <2         | <1                        | <1               | 0.11          |
| WEAG-771    | 6588 Royal Ave.       | 13-Jun-22    | GRAB        | 0.74               | 14             | 6          | <1                        | <1               | 0.19          |
| WEAG-771    | 6588 Royal Ave.       | 27-Jun-22    | GRAB        | 0.97               | 14             | 2          | <1                        | <1               | 0.11          |
| WEAG-771    | 6588 Royal Ave.       | 11-Jul-22    | GRAB        | 0.71               | 17             | 2          | <1                        | <1               | 0.08          |
| WEAG-771    | 6588 Royal Ave.       | 25-Jul-22    | GRAB        | 0.96               | 18             | <2         | <1                        | <1               | 0.09          |
| WEAG-771    | 6588 Royal Ave.       | 8-Aug-22     | GRAB        | 0.74               | 22             | <2         | <1                        | <1               | 0.18          |
| WEAG-771    | 6588 Royal Ave.       | 22-Aug-22    | GRAB        | 0.65               | 23             | 8          | <1                        | <1               | 0.13          |
| WEAG-771    | 6588 Royal Ave.       | 7-Sep-22     | GRAB        | 0.76               | 22             | 12         | <1                        | <1               | 0.16          |
| WEAG-771    | 6588 Royal Ave.       | 21-Sep-22    | GRAB        | 1.12               | 16             | 2          | <1                        | <1               | 0.33          |
| WEAG-771    | 6588 Royal Ave.       | 3-Oct-22     | GRAB        | 0.94               | 16             | <2         | <1                        | <1               | 0.25          |
| WEAG-771    | 6588 Royal Ave.       | 17-Oct-22    | GRAB        | 1.05               | 17             | 18         | <1                        | <1               | 0.18          |
| WEAG-771    | 6588 Royal Ave.       | 31-Oct-22    | GRAB        | 1.02               | 13             | 14         | <1                        | <1               | 0.36          |
| WEAG-771    | 6588 Royal Ave.       | 14-Nov-22    | GRAB        | 1.02               | 9              | <2         | <1                        | <1               | 0.23          |
| WEAG-771    | 6588 Royal Ave.       | 29-Nov-22    | GRAB        | 1                  | 7              | <2         | <1                        | <1               | 0.18          |
| WEAG-771    | 6588 Royal Ave.       | 12-Dec-22    | GRAB        | 0.84               | 7              | 2          | <1                        | <1               | 0.24          |
| WEAG-772    | 6470 Madrona Crescent | 10-Jan-22    | GRAB        | 0.51               | 4              | <2         | <1                        | <1               | 0.23          |
| WEAG-772    | 6470 Madrona Crescent | 24-Jan-22    | GRAB        | 0.78               | 7              | <2         | <1                        | <1               | 0.13          |
| WEAG-772    | 6470 Madrona Crescent | 7-Feb-22     | GRAB        | 0.71               | 7              | 4          | <1                        | <1               | 0.15          |
| WEAG-772    | 6470 Madrona Crescent | 7-Mar-22     | GRAB        | 0.9                | 6              | <2         | <1                        | <1               | 0.14          |
| WEAG-772    | 6470 Madrona Crescent | 21-Mar-22    | GRAB        | 0.58               | 6              | <2         | <1                        | <1               | 0.13          |
| WEAG-772    | 6470 Madrona Crescent | 4-Apr-22     | GRAB        | 0.85               | 9              | 2          | <1                        | <1               | 0.12          |
| WEAG-772    | 6470 Madrona Crescent | 20-Apr-22    | GRAB        | 0.71               | 8              | <2         | <1                        | <1               | 0.15          |
| WEAG-772    | 6470 Madrona Crescent | 2-May-22     | GRAB        | 0.98               | 10             | 2          | <1                        | <1               | 0.14          |
| WEAG-772    | 6470 Madrona Crescent | 16-May-22    | GRAB        | 0.69               | 12             | 2          | <1                        | <1               | 0.13          |
| WEAG-772    | 6470 Madrona Crescent | 30-May-22    | GRAB        | 0.52               | 14             | 12         | <1                        | <1               | 0.13          |
| WEAG-772    | 6470 Madrona Crescent | 13-Jun-22    | GRAB        | 0.75               | 14             | <2         | <1                        | <1               | 0.1           |
| WEAG-772    | 6470 Madrona Crescent | 27-Jun-22    | GRAB        | 0.98               | 14             | <2         | <1                        | <1               | 0.13          |

| Sample Name | Sample Description     | Sampled Date | Sample Type | Chlorine Free mg/L | Temperature °C | HPC CFU/mL | Total Coliform CFU/100mLs | Ecoli CFU/100mLs | Turbidity NTU |
|-------------|------------------------|--------------|-------------|--------------------|----------------|------------|---------------------------|------------------|---------------|
| WEAG-772    | 6470 Madrona Crescent  | 11-Jul-22    | GRAB        | 0.86               | 15             | 2          | <1                        | <1               | 0.07          |
| WEAG-772    | 6470 Madrona Crescent  | 25-Jul-22    | GRAB        | 0.97               | 18             | <2         | <1                        | <1               | 0.1           |
| WEAG-772    | 6470 Madrona Crescent  | 8-Aug-22     | GRAB        | 1                  | 22             | <2         | <1                        | <1               | 0.15          |
| WEAG-772    | 6470 Madrona Crescent  | 22-Aug-22    | GRAB        | 0.97               | 22             | <2         | <1                        | <1               | 0.12          |
| WEAG-772    | 6470 Madrona Crescent  | 7-Sep-22     | GRAB        | 1.17               | 20             | <2         | <1                        | <1               | 0.18          |
| WEAG-772    | 6470 Madrona Crescent  | 21-Sep-22    | GRAB        | 1.1                | 16             | <2         | <1                        | <1               | 0.34          |
| WEAG-772    | 6470 Madrona Crescent  | 3-Oct-22     | GRAB        | 0.95               | 15             | <2         | <1                        | <1               | 0.2           |
| WEAG-772    | 6470 Madrona Crescent  | 17-Oct-22    | GRAB        | 1.07               | 16             | 74         | <1                        | <1               | 0.17          |
| WEAG-772    | 6470 Madrona Crescent  | 31-Oct-22    | GRAB        | 1.03               | 13             | 14         | <1                        | <1               | 0.17          |
| WEAG-772    | 6470 Madrona Crescent  | 14-Nov-22    | GRAB        | 1.04               | 9              | <2         | <1                        | <1               | 0.23          |
| WEAG-772    | 6470 Madrona Crescent  | 29-Nov-22    | GRAB        | 1.02               | 6              | <2         | <1                        | <1               | 0.15          |
| WEAG-772    | 6470 Madrona Crescent  | 12-Dec-22    | GRAB        | 0.88               | 6              | <2         | <1                        | <1               | 0.23          |
| WEAG-773    | Whytcliffe Park        | 10-Jan-22    | GRAB        | 0.48               | 4              | 2          | <1                        | <1               | 0.14          |
| WEAG-773    | Whytcliffe Park        | 7-Feb-22     | GRAB        | 0.4                | 7              | 2          | <1                        | <1               | 0.11          |
| WEAG-773    | Whytcliffe Park        | 7-Mar-22     | GRAB        | 0.4                | 6              | <2         | <1                        | <1               | 0.11          |
| WEAG-773    | Whytcliffe Park        | 4-Apr-22     | GRAB        | 0.43               | 9              | 2          | <1                        | <1               | 0.1           |
| WEAG-773    | Whytcliffe Park        | 2-May-22     | GRAB        | 0.29               | 10             | 6          | <1                        | <1               | 0.15          |
| WEAG-773    | Whytcliffe Park        | 30-May-22    | GRAB        | 0.2                | 14             | 8          | <1                        | <1               | 0.11          |
| WEAG-773    | Whytcliffe Park        | 27-Jun-22    | GRAB        | 0.55               | 15             | <2         | <1                        | <1               | 0.11          |
| WEAG-773    | Whytcliffe Park        | 25-Jul-22    | GRAB        | 0.51               | 19             | <2         | <1                        | <1               | 0.1           |
| WEAG-773    | Whytcliffe Park        | 22-Aug-22    | GRAB        | 0.56               | 21             | 28         | <1                        | <1               | 0.13          |
| WEAG-773    | Whytcliffe Park        | 21-Sep-22    | GRAB        | 0.56               | 19             | 72         | <1                        | <1               | 0.17          |
| WEAG-773    | Whytcliffe Park        | 17-Oct-22    | GRAB        | 0.5                | 16             | 66         | <1                        | <1               | 0.18          |
| WEAG-773    | Whytcliffe Park        | 14-Nov-22    | GRAB        | 0.43               | 10             | 10         | <1                        | <1               | 0.17          |
| WEAG-773    | Whytcliffe Park        | 12-Dec-22    | GRAB        | 0.35               | 8              | 4          | <1                        | <1               | 0.26          |
| WEAG-774    | 6117 Gleneagles Drive  | 24-Jan-22    | GRAB        | 0.82               | 6              | <2         | <1                        | <1               | 0.08          |
| WEAG-774    | 6117 Gleneagles Drive  | 21-Mar-22    | GRAB        | 0.79               | 6              | 92         | <1                        | <1               | 0.11          |
| WEAG-774    | 6117 Gleneagles Drive  | 20-Apr-22    | GRAB        | 0.88               | 9              | <2         | <1                        | <1               | 0.07          |
| WEAG-774    | 6117 Gleneagles Drive  | 16-May-22    | GRAB        | 0.94               | 10             | 2          | <1                        | <1               | 0.08          |
| WEAG-774    | 6117 Gleneagles Drive  | 13-Jun-22    | GRAB        | 0.81               | 13             | 2          | <1                        | <1               | 0.1           |
| WEAG-774    | 6117 Gleneagles Drive  | 11-Jul-22    | GRAB        | 0.94               | 15             | 4          | <1                        | <1               | 0.14          |
| WEAG-774    | 6117 Gleneagles Drive  | 8-Aug-22     | GRAB        | 1.05               | 22             | 6          | <1                        | <1               | 0.14          |
| WEAG-774    | 6117 Gleneagles Drive  | 7-Sep-22     | GRAB        | 1.11               | 20             | <2         | <1                        | <1               | 0.15          |
| WEAG-774    | 6117 Gleneagles Drive  | 3-Oct-22     | GRAB        | 1.02               | 16             | <2         | <1                        | <1               | 0.14          |
| WEAG-774    | 6117 Gleneagles Drive  | 31-Oct-22    | GRAB        | 1.28               | 13             | 4          | <1                        | <1               | 0.17          |
| WEAG-774    | 6117 Gleneagles Drive  | 29-Nov-22    | GRAB        | 1.02               | 7              | <2         | <1                        | <1               | 0.15          |
| WEAG-776    | 3755 Cypress Bowl Road | 24-Jan-22    | GRAB        | 1.08               | 5              | <2         | <1                        | <1               | 0.11          |
| WEAG-776    | 3755 Cypress Bowl Road | 21-Mar-22    | GRAB        | 1.06               | 6              | <2         | <1                        | <1               | 0.07          |
| WEAG-776    | 3755 Cypress Bowl Road | 20-Apr-22    | GRAB        | 1.01               | 8              | <2         | <1                        | <1               | 0.08          |
| WEAG-776    | 3755 Cypress Bowl Road | 16-May-22    | GRAB        | 1.07               | 10             | <2         | <1                        | <1               | 0.09          |
| WEAG-776    | 3755 Cypress Bowl Road | 13-Jun-22    | GRAB        | 1.21               | 12             | <2         | <1                        | <1               | 0.06          |
| WEAG-776    | 3755 Cypress Bowl Road | 11-Jul-22    | GRAB        | 1.02               | 15             | <2         | <1                        | <1               | 0.06          |
| WEAG-776    | 3755 Cypress Bowl Road | 8-Aug-22     | GRAB        | 0.97               | 20             | <2         | <1                        | <1               | 0.09          |
| WEAG-776    | 3755 Cypress Bowl Road | 7-Sep-22     | GRAB        | 1.18               | 20             | <2         | <1                        | <1               | 0.06          |
| WEAG-776    | 3755 Cypress Bowl Road | 3-Oct-22     | GRAB        | 0.97               | 16             | <2         | <1                        | <1               | 0.11          |
| WEAG-776    | 3755 Cypress Bowl Road | 31-Oct-22    | GRAB        | 1.37               | 13             | <2         | <1                        | <1               | 0.12          |
| WEAG-776    | 3755 Cypress Bowl Road | 29-Nov-22    | GRAB        | 1.08               | 6              | 4          | <1                        | <1               | 0.07          |
| WEAG-778    | 6190 Marine Drive      | 10-Jan-22    | GRAB        | 0.5                | 4              | <2         | <1                        | <1               | 0.22          |
| WEAG-778    | 6190 Marine Drive      | 24-Jan-22    | GRAB        | 0.92               | 6              | <2         | <1                        | <1               | 0.15          |
| WEAG-778    | 6190 Marine Drive      | 7-Feb-22     | GRAB        | 0.58               | 7              | <2         | <1                        | <1               | 0.27          |
| WEAG-778    | 6190 Marine Drive      | 7-Mar-22     | GRAB        | 1.03               | 6              | <2         | <1                        | <1               | 0.11          |
| WEAG-778    | 6190 Marine Drive      | 21-Mar-22    | GRAB        | 0.86               | 6              | 2          | <1                        | <1               | 0.13          |
| WEAG-778    | 6190 Marine Drive      | 4-Apr-22     | GRAB        | 0.98               | 9              | 2          | <1                        | <1               | 0.22          |

| Sample Name | Sample Description  | Sampled Date | Sample Type | Chlorine Free mg/L | Temperature °C | HPC CFU/mL | Total Coliform CFU/100mLs | Ecoli CFU/100mLs | Turbidity NTU |
|-------------|---------------------|--------------|-------------|--------------------|----------------|------------|---------------------------|------------------|---------------|
| WEAG-778    | 6190 Marine Drive   | 20-Apr-22    | GRAB        | 0.84               | 9              | 2          | <1                        | <1               | 0.14          |
| WEAG-778    | 6190 Marine Drive   | 2-May-22     | GRAB        | 1.13               | 9              | <2         | <1                        | <1               | 0.25          |
| WEAG-778    | 6190 Marine Drive   | 16-May-22    | GRAB        | 0.92               | 11             | 2          | <1                        | <1               | 0.11          |
| WEAG-778    | 6190 Marine Drive   | 30-May-22    | GRAB        | 0.73               | 14             | 2          | <1                        | <1               | 0.11          |
| WEAG-778    | 6190 Marine Drive   | 13-Jun-22    | GRAB        | 0.83               | 12             | 2          | <1                        | <1               | 0.13          |
| WEAG-778    | 6190 Marine Drive   | 27-Jun-22    | GRAB        | 1.06               | 14             | 2          | <1                        | <1               | 0.09          |
| WEAG-778    | 6190 Marine Drive   | 11-Jul-22    | GRAB        | 0.93               | 15             | <2         | <1                        | <1               | 0.18          |
| WEAG-778    | 6190 Marine Drive   | 25-Jul-22    | GRAB        | 0.97               | 18             | <2         | <1                        | <1               | 0.29          |
| WEAG-778    | 6190 Marine Drive   | 8-Aug-22     | GRAB        | 1.05               | 21             | 2          | <1                        | <1               | 0.16          |
| WEAG-778    | 6190 Marine Drive   | 22-Aug-22    | GRAB        | 1                  | 22             | 6          | <1                        | <1               | 0.25          |
| WEAG-778    | 6190 Marine Drive   | 7-Sep-22     | GRAB        | 1.1                | 20             | 4          | <1                        | <1               | 0.12          |
| WEAG-778    | 6190 Marine Drive   | 21-Sep-22    | GRAB        | 1.14               | 16             | <2         | <1                        | <1               | 0.15          |
| WEAG-778    | 6190 Marine Drive   | 3-Oct-22     | GRAB        | 1.07               | 15             | <2         | <1                        | <1               | 0.17          |
| WEAG-778    | 6190 Marine Drive   | 17-Oct-22    | GRAB        | 1.1                | 16             | <2         | <1                        | <1               | 0.12          |
| WEAG-778    | 6190 Marine Drive   | 31-Oct-22    | GRAB        | 1.13               | 13             | <2         | <1                        | <1               | 0.16          |
| WEAG-778    | 6190 Marine Drive   | 14-Nov-22    | GRAB        | 0.78               | 10             | <2         | <1                        | <1               | 0.24          |
| WEAG-778    | 6190 Marine Drive   | 29-Nov-22    | GRAB        | 0.9                | 6              | 12         | <1                        | <1               | 0.19          |
| WEAG-778    | 6190 Marine Drive   | 12-Dec-22    | GRAB        | 0.98               | 8              | <2         | <1                        | <1               | 0.3           |
| WEAG-779    | 1370 Burnside Road  | 5-Jan-22     | GRAB        | 0.79               | 4              | <2         | <1                        | <1               | 0.1           |
| WEAG-779    | 1370 Burnside Road  | 31-Jan-22    | GRAB        | 0.95               | 4              | <2         | <1                        | <1               | 0.1           |
| WEAG-779    | 1370 Burnside Road  | 23-Feb-22    | GRAB        | 0.9                | 6              | <2         | <1                        | <1               | 0.09          |
| WEAG-779    | 1370 Burnside Road  | 28-Feb-22    | GRAB        | 0.98               | 8              | <2         | <1                        | <1               | 0.11          |
| WEAG-779    | 1370 Burnside Road  | 28-Mar-22    | GRAB        | 0.81               | 8              | <2         | <1                        | <1               | 0.1           |
| WEAG-779    | 1370 Burnside Road  | 25-Apr-22    | GRAB        | 1.05               | 8              | <2         | <1                        | <1               | 0.06          |
| WEAG-779    | 1370 Burnside Road  | 25-May-22    | GRAB        | 0.79               | 11             | <2         | <1                        | <1               | 0.09          |
| WEAG-779    | 1370 Burnside Road  | 20-Jun-22    | GRAB        | 0.79               | 13             | 2          | <1                        | <1               | 0.15          |
| WEAG-779    | 1370 Burnside Road  | 18-Jul-22    | GRAB        | 0.69               | 15             | 4          | <1                        | <1               | 0.1           |
| WEAG-779    | 1370 Burnside Road  | 12-Sep-22    | GRAB        | 0.78               | 18             | 36         | <1                        | <1               | 0.16          |
| WEAG-779    | 1370 Burnside Road  | 12-Oct-22    | GRAB        | 0.72               | 16             | <2         | <1                        | <1               | 0.13          |
| WEAG-779    | 1370 Burnside Road  | 7-Nov-22     | GRAB        | 0.9                | 9              | <2         | <1                        | <1               | 0.11          |
| WEAG-779    | 1370 Burnside Road  | 8-Dec-22     | GRAB        | 0.97               | 6              | <2         | <1                        | <1               | 0.16          |
| WEAG-780    | 5634 Westhaven Road | 10-Jan-22    | GRAB        | 0.77               | 4              | 4          | <1                        | <1               | 0.17          |
| WEAG-780    | 5634 Westhaven Road | 7-Feb-22     | GRAB        | 0.81               | 7              | <2         | <1                        | <1               | 0.08          |
| WEAG-780    | 5634 Westhaven Road | 7-Mar-22     | GRAB        | 1.3                | 6              | <2         | <1                        | <1               | 0.09          |
| WEAG-780    | 5634 Westhaven Road | 4-Apr-22     | GRAB        | 1.15               | 9              | <2         | <1                        | <1               | 0.22          |
| WEAG-780    | 5634 Westhaven Road | 2-May-22     | GRAB        | 1.3                | 10             | 2          | <1                        | <1               | 0.17          |
| WEAG-780    | 5634 Westhaven Road | 30-May-22    | GRAB        | 0.95               | 11             | <2         | <1                        | <1               | 0.14          |
| WEAG-780    | 5634 Westhaven Road | 27-Jun-22    | GRAB        | 1.16               | 13             | 10         | <1                        | <1               | 0.08          |
| WEAG-780    | 5634 Westhaven Road | 25-Jul-22    | GRAB        | 1.21               | 18             | <2         | <1                        | <1               | 0.1           |
| WEAG-780    | 5634 Westhaven Road | 22-Aug-22    | GRAB        | 1.33               | 22             | 8          | <1                        | <1               | 0.11          |
| WEAG-780    | 5634 Westhaven Road | 21-Sep-22    | GRAB        | 1.25               | 16             | <2         | <1                        | <1               | 0.17          |
| WEAG-780    | 5634 Westhaven Road | 17-Oct-22    | GRAB        | 1.1                | 17             | <2         | <1                        | <1               | 0.18          |
| WEAG-780    | 5634 Westhaven Road | 14-Nov-22    | GRAB        | 1.05               | 10             | <2         | <1                        | <1               | 0.19          |
| WEAG-780    | 5634 Westhaven Road | 12-Dec-22    | GRAB        | 1.04               | 8              | 2          | <1                        | <1               | 0.21          |
| WEAG-783    | 4520 Almondel Place | 24-Jan-22    | GRAB        | 1                  | 5              | 6          | <1                        | <1               | 0.13          |
| WEAG-783    | 4520 Almondel Place | 21-Mar-22    | GRAB        | 0.87               | 6              | <2         | <1                        | <1               | 0.07          |
| WEAG-783    | 4520 Almondel Place | 20-Apr-22    | GRAB        | 0.88               | 9              | <2         | <1                        | <1               | 0.08          |
| WEAG-783    | 4520 Almondel Place | 16-May-22    | GRAB        | 0.97               | 11             | 2          | <1                        | <1               | 0.08          |
| WEAG-783    | 4520 Almondel Place | 13-Jun-22    | GRAB        | 1.13               | 12             | 2          | <1                        | <1               | 0.1           |
| WEAG-783    | 4520 Almondel Place | 11-Jul-22    | GRAB        | 1.08               | 15             | <2         | <1                        | <1               | 0.14          |
| WEAG-783    | 4520 Almondel Place | 8-Aug-22     | GRAB        | 0.89               | 20             | <2         | <1                        | <1               | 0.16          |
| WEAG-783    | 4520 Almondel Place | 7-Sep-22     | GRAB        | 1.3                | 22             | 8          | <1                        | <1               | 0.14          |
| WEAG-783    | 4520 Almondel Place | 3-Oct-22     | GRAB        | 1.15               | 15             | <2         | <1                        | <1               | 0.14          |

| Sample Name | Sample Description     | Sampled Date | Sample Type | Chlorine Free mg/L | Temperature °C | HPC CFU/mL | Total Coliform CFU/100mLs | Ecoli CFU/100mLs | Turbidity NTU |
|-------------|------------------------|--------------|-------------|--------------------|----------------|------------|---------------------------|------------------|---------------|
| WEAG-783    | 4520 Almondel Place    | 31-Oct-22    | GRAB        | 1.2                | 13             | 6          | <1                        | <1               | 0.11          |
| WEAG-783    | 4520 Almondel Place    | 29-Nov-22    | GRAB        | 1.07               | 7              | 60         | <1                        | <1               | 0.1           |
| WEAG-784    | 5759 Primrose Place    | 10-Jan-22    | GRAB        | 1                  | 4              | 6          | <1                        | <1               | 0.22          |
| WEAG-784    | 5759 Primrose Place    | 7-Feb-22     | GRAB        | 0.62               | 7              | <2         | <1                        | <1               | 0.3           |
| WEAG-784    | 5759 Primrose Place    | 7-Mar-22     | GRAB        | 0.95               | 6              | 4          | <1                        | <1               | 0.13          |
| WEAG-784    | 5759 Primrose Place    | 4-Apr-22     | GRAB        | 0.81               | 9              | <2         | <1                        | <1               | 0.11          |
| WEAG-784    | 5759 Primrose Place    | 2-May-22     | GRAB        | 1.01               | 10             | 4          | <1                        | <1               | 0.15          |
| WEAG-784    | 5759 Primrose Place    | 30-May-22    | GRAB        | 0.63               | 14             | 4          | <1                        | <1               | 0.11          |
| WEAG-784    | 5759 Primrose Place    | 27-Jun-22    | GRAB        | 0.85               | 16             | 8          | <1                        | <1               | 0.17          |
| WEAG-784    | 5759 Primrose Place    | 25-Jul-22    | GRAB        | 0.86               | 18             | 8          | <1                        | <1               | 0.14          |
| WEAG-784    | 5759 Primrose Place    | 22-Aug-22    | GRAB        | 0.81               | 23             | 24         | <1                        | <1               | 0.3           |
| WEAG-784    | 5759 Primrose Place    | 21-Sep-22    | GRAB        | 0.99               | 17             | 10         | <1                        | <1               | 0.2           |
| WEAG-784    | 5759 Primrose Place    | 17-Oct-22    | GRAB        | 0.98               | 16             | 28         | <1                        | <1               | 0.18          |
| WEAG-784    | 5759 Primrose Place    | 14-Nov-22    | GRAB        | 0.78               | 10             | <2         | <1                        | <1               | 0.19          |
| WEAG-784    | 5759 Primrose Place    | 12-Dec-22    | GRAB        | 0.89               | 7              | <2         | <1                        | <1               | 0.38          |
| WEAG-785    | 4820 Headland Drive    | 10-Jan-22    | GRAB        | 1.01               | 4              | 4          | <1                        | <1               | 0.28          |
| WEAG-785    | 4820 Headland Drive    | 7-Feb-22     | GRAB        | 0.83               | 7              | 10         | <1                        | <1               | 0.09          |
| WEAG-785    | 4820 Headland Drive    | 7-Mar-22     | GRAB        | 1.01               | 6              | 8          | <1                        | <1               | 0.09          |
| WEAG-785    | 4820 Headland Drive    | 4-Apr-22     | GRAB        | 1                  | 9              | 2          | <1                        | <1               | 0.1           |
| WEAG-785    | 4820 Headland Drive    | 2-May-22     | GRAB        | 1.02               | 10             | 22         | <1                        | <1               | 0.11          |
| WEAG-785    | 4820 Headland Drive    | 30-May-22    | GRAB        | 0.71               | 12             | 2          | <1                        | <1               | 0.12          |
| WEAG-785    | 4820 Headland Drive    | 27-Jun-22    | GRAB        | 1.03               | 15             | 18         | <1                        | <1               | 0.16          |
| WEAG-785    | 4820 Headland Drive    | 25-Jul-22    | GRAB        | 1.08               | 19             | 2          | <1                        | <1               | 0.12          |
| WEAG-785    | 4820 Headland Drive    | 22-Aug-22    | GRAB        | 1                  | 23             | 26         | <1                        | <1               | 0.52          |
| WEAG-785    | 4820 Headland Drive    | 21-Sep-22    | GRAB        | 1.26               | 17             | 14         | <1                        | <1               | 0.27          |
| WEAG-785    | 4820 Headland Drive    | 17-Oct-22    | GRAB        | 1                  | 16             | 38         | <1                        | <1               | 0.28          |
| WEAG-785    | 4820 Headland Drive    | 14-Nov-22    | GRAB        | 0.92               | 9              | 2          | <1                        | <1               | 0.19          |
| WEAG-785    | 4820 Headland Drive    | 12-Dec-22    | GRAB        | 1.01               | 7              | <2         | <1                        | <1               | 0.24          |
| WEAG-786    | 1158 Millstream Road   | 17-Jan-22    | GRAB        | 0.23               | 5              | <2         | <1                        | <1               | 0.13          |
| WEAG-786    | 1158 Millstream Road   | 14-Feb-22    | GRAB        | 0.54               | 5              | <2         | <1                        | <1               | 0.14          |
| WEAG-786    | 1158 Millstream Road   | 14-Mar-22    | GRAB        | 0.66               | 7              | <2         | <1                        | <1               | 0.13          |
| WEAG-786    | 1158 Millstream Road   | 11-Apr-22    | GRAB        | 0.46               | 8              | 4          | <1                        | <1               | 0.14          |
| WEAG-786    | 1158 Millstream Road   | 9-May-22     | GRAB        | 0.58               | 9              | 6          | <1                        | <1               | 0.1           |
| WEAG-786    | 1158 Millstream Road   | 6-Jun-22     | GRAB        | 0.6                | 12             | 2          | <1                        | <1               | 0.09          |
| WEAG-786    | 1158 Millstream Road   | 4-Jul-22     | GRAB        | 0.42               | 12             | 2          | <1                        | <1               | 0.11          |
| WEAG-786    | 1158 Millstream Road   | 3-Aug-22     | GRAB        | 0.74               | 17             | 6          | <1                        | <1               | 0.15          |
| WEAG-786    | 1158 Millstream Road   | 29-Aug-22    | GRAB        | 0.68               | 17             | 4          | <1                        | <1               | 0.15          |
| WEAG-786    | 1158 Millstream Road   | 24-Oct-22    | GRAB        | 0.96               | 15             | 2          | <1                        | <1               | 0.16          |
| WEAG-786    | 1158 Millstream Road   | 21-Nov-22    | GRAB        | 1                  | 9              | <2         | <1                        | <1               | 0.13          |
| WEAG-787    | 2711 Willoughby Road   | 17-Jan-22    | GRAB        | 0.66               | 5              | <2         | <1                        | <1               | 0.09          |
| WEAG-787    | 2711 Willoughby Road   | 14-Feb-22    | GRAB        | 0.69               | 6              | 6          | <1                        | <1               | 0.12          |
| WEAG-787    | 2711 Willoughby Road   | 14-Mar-22    | GRAB        | 0.53               | 7              | <2         | <1                        | <1               | 0.12          |
| WEAG-787    | 2711 Willoughby Road   | 11-Apr-22    | GRAB        | 0.63               | 9              | <2         | <1                        | <1               | 0.09          |
| WEAG-787    | 2711 Willoughby Road   | 9-May-22     | GRAB        | 0.85               | 10             | <2         | <1                        | <1               | 0.08          |
| WEAG-787    | 2711 Willoughby Road   | 6-Jun-22     | GRAB        | 0.46               | 13             | <2         | <1                        | <1               | 0.12          |
| WEAG-787    | 2711 Willoughby Road   | 4-Jul-22     | GRAB        | 0.41               | 13             | 2          | <1                        | <1               | 0.1           |
| WEAG-787    | 2711 Willoughby Road   | 3-Aug-22     | GRAB        | 0.75               | 18             | <2         | <1                        | <1               | 0.15          |
| WEAG-787    | 2711 Willoughby Road   | 29-Aug-22    | GRAB        | 0.76               | 17             | 18         | <1                        | <1               | 0.19          |
| WEAG-787    | 2711 Willoughby Road   | 24-Oct-22    | GRAB        | 0.67               | 15             | 20         | <1                        | <1               | 0.12          |
| WEAG-787    | 2711 Willoughby Road   | 21-Nov-22    | GRAB        | 0.97               | 10             | <2         | <1                        | <1               | 0.13          |
| WEAG-788    | 1551 Vinson Creek Road | 17-Jan-22    | GRAB        | 0.76               | 5              | <2         | <1                        | <1               | 0.12          |
| WEAG-788    | 1551 Vinson Creek Road | 14-Feb-22    | GRAB        | 0.73               | 7              | <2         | <1                        | <1               | 0.1           |
| WEAG-788    | 1551 Vinson Creek Road | 14-Mar-22    | GRAB        | 0.8                | 7              | <2         | <1                        | <1               | 0.12          |

| Sample Name | Sample Description     | Sampled Date | Sample Type | Chlorine Free mg/L | Temperature °C | HPC CFU/mL | Total Coliform CFU/100mLs | Ecoli CFU/100mLs | Turbidity NTU |
|-------------|------------------------|--------------|-------------|--------------------|----------------|------------|---------------------------|------------------|---------------|
| WEAG-788    | 1551 Vinson Creek Road | 11-Apr-22    | GRAB        | 0.74               | 9              | 2          | <1                        | <1               | 0.1           |
| WEAG-788    | 1551 Vinson Creek Road | 9-May-22     | GRAB        | 0.59               | 10             | <2         | <1                        | <1               | 0.08          |
| WEAG-788    | 1551 Vinson Creek Road | 6-Jun-22     | GRAB        | 0.65               | 12             | <2         | <1                        | <1               | 0.24          |
| WEAG-788    | 1551 Vinson Creek Road | 4-Jul-22     | GRAB        | 0.55               | 12             | <2         | <1                        | <1               | 0.11          |
| WEAG-788    | 1551 Vinson Creek Road | 3-Aug-22     | GRAB        | 0.78               | 15             | <2         | <1                        | <1               | 0.12          |
| WEAG-788    | 1551 Vinson Creek Road | 29-Aug-22    | GRAB        | 0.83               | 17             | <2         | <1                        | <1               | 0.12          |
| WEAG-788    | 1551 Vinson Creek Road | 24-Oct-22    | GRAB        | 0.96               | 15             | <2         | <1                        | <1               | 0.1           |
| WEAG-788    | 1551 Vinson Creek Road | 21-Nov-22    | GRAB        | 0.9                | 9              | <2         | <1                        | <1               | 0.07          |
| WEAG-880    | 965 Cross Creek Road   | 10-Jan-22    | GRAB        | 0.74               | 4              | 6          | <1                        | <1               | 0.18          |
| WEAG-880    | 965 Cross Creek Road   | 7-Feb-22     | GRAB        | 0.97               | 7              | 2          | <1                        | <1               | 0.1           |
| WEAG-880    | 965 Cross Creek Road   | 7-Mar-22     | GRAB        | 0.75               | 6              | <2         | <1                        | <1               | 0.16          |
| WEAG-880    | 965 Cross Creek Road   | 4-Apr-22     | GRAB        | 0.5                | 9              | <2         | <1                        | <1               | 0.2           |
| WEAG-880    | 965 Cross Creek Road   | 2-May-22     | GRAB        | 0.58               | 10             | 16         | <1                        | <1               | 0.41          |
| WEAG-880    | 965 Cross Creek Road   | 30-May-22    | GRAB        | 0.43               | 11             | 34         | <1                        | <1               | 0.14          |
| WEAG-880    | 965 Cross Creek Road   | 27-Jun-22    | GRAB        | 0.81               | 12             | <2         | <1                        | <1               | 0.29          |
| WEAG-880    | 965 Cross Creek Road   | 25-Jul-22    | GRAB        | 0.78               | 14             | <2         | <1                        | <1               | 0.13          |
| WEAG-880    | 965 Cross Creek Road   | 22-Aug-22    | GRAB        | 0.7                | 16             | <2         | <1                        | <1               | 0.2           |
| WEAG-880    | 965 Cross Creek Road   | 21-Sep-22    | GRAB        | 0.78               | 16             | <2         | <1                        | <1               | 0.16          |
| WEAG-880    | 965 Cross Creek Road   | 17-Oct-22    | GRAB        | 0.76               | 18             | 14         | <1                        | <1               | 0.21          |
| WEAG-880    | 965 Cross Creek Road   | 14-Nov-22    | GRAB        | 1.1                | 10             | 2          | <1                        | <1               | 0.11          |
| WEAG-880    | 965 Cross Creek Road   | 12-Dec-22    | GRAB        | 0.78               | 7              | <2         | <1                        | <1               | 0.24          |
| WMZ-781     | 8005 Pasco Road        | 24-Jan-22    | GRAB        | 1.16               | 6              | <2         | <1                        | <1               | 0.15          |
| WMZ-781     | 8005 Pasco Road        | 21-Mar-22    | GRAB        | 1.12               | 6              | <2         | <1                        | <1               | 0.23          |
| WMZ-781     | 8005 Pasco Road        | 20-Apr-22    | GRAB        | 1.33               | 8              | <2         | <1                        | <1               | 0.2           |
| WMZ-781     | 8005 Pasco Road        | 16-May-22    | GRAB        | 1.35               | 10             | <2         | <1                        | <1               | 0.12          |
| WMZ-781     | 8005 Pasco Road        | 13-Jun-22    | GRAB        | 1.15               | 13             | <2         | <1                        | <1               | 0.12          |
| WMZ-781     | 8005 Pasco Road        | 11-Jul-22    | GRAB        | 1.02               | 16             | <2         | <1                        | <1               | 0.08          |
| WMZ-781     | 8005 Pasco Road        | 8-Aug-22     | GRAB        | 1.24               | 19             | <2         | <1                        | <1               | 0.1           |
| WMZ-781     | 8005 Pasco Road        | 7-Sep-22     | GRAB        | 1.29               | 19             | <2         | <1                        | <1               | 0.11          |
| WMZ-781     | 8005 Pasco Road        | 3-Oct-22     | GRAB        | 1.31               | 14             | <2         | <1                        | <1               | 0.22          |
| WMZ-781     | 8005 Pasco Road        | 31-Oct-22    | GRAB        | 0.76               | 13             | <2         | <1                        | <1               | 0.19          |
| WMZ-781     | 8005 Pasco Road        | 29-Nov-22    | GRAB        | 1.31               | 7              | <2         | <1                        | <1               | 0.08          |
| WMZ-782     | 8995 Lawrence Way      | 10-Jan-22    | GRAB        | 1.46               | 4              | <2         | <1                        | <1               | 0.13          |
| WMZ-782     | 8995 Lawrence Way      | 7-Feb-22     | GRAB        | 1.1                | 7              | 2          | <1                        | <1               | 0.27          |
| WMZ-782     | 8995 Lawrence Way      | 7-Mar-22     | GRAB        | 1.25               | 6              | <2         | <1                        | <1               | 0.19          |
| WMZ-782     | 8995 Lawrence Way      | 4-Apr-22     | GRAB        | 1.2                | 9              | <2         | <1                        | <1               | 0.28          |
| WMZ-782     | 8995 Lawrence Way      | 2-May-22     | GRAB        | 1.29               | 11             | <2         | <1                        | <1               | 0.18          |
| WMZ-782     | 8995 Lawrence Way      | 30-May-22    | GRAB        | 1.21               | 12             | <2         | <1                        | <1               | 0.36          |
| WMZ-782     | 8995 Lawrence Way      | 27-Jun-22    | GRAB        | 1.06               | 18             | <2         | <1                        | <1               | 0.16          |
| WMZ-782     | 8995 Lawrence Way      | 25-Jul-22    | GRAB        | 1.38               | 17             | <2         | <1                        | <1               | 0.11          |
| WMZ-782     | 8995 Lawrence Way      | 22-Aug-22    | GRAB        | 1.27               | 18             | <2         | <1                        | <1               | 0.12          |
| WMZ-782     | 8995 Lawrence Way      | 21-Sep-22    | GRAB        | 1.1                | 15             | <2         | <1                        | <1               | 0.2           |
| WMZ-782     | 8995 Lawrence Way      | 17-Oct-22    | GRAB        | 1.21               | 13             | <2         | <1                        | <1               | 0.24          |
| WMZ-782     | 8995 Lawrence Way      | 14-Nov-22    | GRAB        | 1.16               | 5              | <2         | <1                        | <1               | 0.36          |
| WMZ-782     | 8995 Lawrence Way      | 12-Dec-22    | GRAB        | 0.23               | 4              | <2         | <1                        | <1               | 0.43          |

#### 4. Total Organic Carbon Sample Results – mg/L

| Date      | Sample Type | Eagle Lake |         | Montizambert Creek |         |
|-----------|-------------|------------|---------|--------------------|---------|
|           |             | Raw        | Treated | Raw                | Treated |
| 10-Jan-22 | GRAB        | 1.7        | 0.5     | 2.7                | 1.4     |
| 14-Feb-22 | GRAB        | 2.3        | 1.2     | 2.8                | 0.4     |
| 14-Mar-22 | GRAB        | 2.3        | 1.3     | 3                  | 0.4     |
| 12-Apr-22 | GRAB        | 2.2        | 1.3     | 2                  | 0.5     |
| 09-May-22 | GRAB        | 2.3        | 1.3     | 0.7                | 0.5     |
| 13-Jun-22 | GRAB        | 2.8        | 1.7     | 2.9                | 0.8     |
| 11-Jul-22 | GRAB        | 2.7        | 1.5     | 2                  | 0.4     |
| 08-Aug-22 | GRAB        | 2          | 1.3     | 1.1                | 0.2     |
| 13-Sep-22 | GRAB        | 2.1        | 1.4     | 0.8                | 0.2     |
| 11-Oct-22 | GRAB        | 2          | 1.5     | 0.6                | 0.2     |
| 21-Nov-22 | GRAB        | 2.1        | 1.4     | 1.3                | 0.7     |
| 12-Dec-22 | GRAB        | 1.7        | 1.2     | 1.6                | 0.5     |

#### 5. Giardia & Cryptosporidium Sample Results

| Date      | Eagle Lake   |                 | Montizambert Creek |                 |
|-----------|--------------|-----------------|--------------------|-----------------|
|           | Giardia      | Cryptosporidium | Giardia            | Cryptosporidium |
| 27-Jan-22 | <1 per 100 L | <1 per 100 L    | <1 per 100 L       | <1 per 100 L    |
| 14-Feb-22 | <1 per 100 L | 2 per 100 L     | <1 per 100 L       | <1 per 100 L    |
| 14-Mar-22 | <1 per 100 L | <1 per 100 L    | <1 per 100 L       | <1 per 100 L    |
| 19-Apr-22 | <1 per 100 L | <1 per 100 L    | <1 per 100 L       | <1 per 100 L    |
| 16-May-22 | 4 per 100 L  | <1 per 100 L    | <1 per 100 L       | <1 per 100 L    |
| 28-Jun-22 | <1 per 100 L | <1 per 100 L    | <1 per 100 L       | <1 per 100 L    |
| 25-Jul-22 | <1 per 100 L | <1 per 100 L    | 8 per 100 L        | <1 per 100 L    |
| 08-Aug-22 | <1 per 100 L | <1 per 100 L    | 1 per 100 L        | <1 per 100 L    |
| 22-Sep-22 | <1 per 100 L | 2 per 100 L     | <1 per 100 L       | <1 per 100 L    |
| 11-Oct-22 | <1 per 100 L | <1 per 100 L    | 1 per 100 L        | <1 per 100 L    |
| 21-Nov-22 | <1 per 100 L | <1 per 100 L    | <1 per 100 L       | 192 per 100 L   |
| 12-Dec-22 | <1 per 100 L | 1 per 100 L     | <1 per 100 L       | <1 per 100 L    |

## 6. VCH Heath Message – Metals in Drinking Water



Vancouver Coastal Health  
800 – 601 West Broadway  
Vancouver, BC V5Z 4C2

May 12th, 2022

Water System Operators

### **Re: Metals in Drinking Water – “Flush” Message in Annual Reports**

Vancouver Coastal Health (VCH) is requiring all water systems to include the following health message with your next annual reports to your users:

*Contamination of drinking water with Lead can have health impacts over time, and in BC the source is most likely to be plumbing fixtures within a building. Anytime the water in a particular faucet has not been used for six hours or longer, “flush” your cold-water pipes by running the water until you notice a change in temperature. This could take as little as five to thirty seconds if there has been recent heavy water use such as showering or toilet flushing. Otherwise, it could take two minutes or longer. The more time water has been sitting in your home’s pipes, the more Lead it may contain.*

*Use only water from the cold-tap for drinking cooking, and especially making baby formula. Hot water is likely to contain higher levels of Lead.*

*The two actions recommended above are very important to the health of your family. They will probably be effective in reducing Lead levels because most of the Lead in household water usually comes from the plumbing in your house, not from the local water supply.*

*Conserving water is still important. Rather than just running the water down the drain you could use the water for things such as watering your plants.*

If you have any questions, please contact you closest Drinking Water Officer noted below.

Sincerely,

A handwritten signature in blue ink, appearing to read "MS".

Dr. Michael Schwandt  
Medical Health Officer  
Vancouver Coastal Health

- (604) 983-6793 Central Coast
- (604) 983-6793 North Shore
- (604) 485-3310 Powell River
- (604) 233-3147 Richmond
- (604) 885-5164 Sechelt
- (604) 892-2293 Squamish
- (604) 675-3800 Vancouver
- (604) 932-3202 Whistler