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# Union Water Supply System Inc.

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**SENT BY: EMAIL**

February 14, 2024

Town of Kingsville  
2021 Division Road North  
Kingsville, Ontario  
N9Y 2Y9

**Attention: Mr. John Norton, Chief Administrative Officer**

Mr. Norton,

**RE: Annual Report (2023) Requirement Section 11, Reg. 170/03 and Summary Report (2023)  
Requirement Schedule 22, Reg. 170/03**

Attached are the following items for the Kingsville Water Distribution System supplied by the Union Water Supply System (UWSS):

1. Annual Report (Section 11, Reg. 170/03)
2. Summary Report (Schedule 22, Reg. 170/03).

## Annual Report

The Annual Report must be prepared before February 28, 2024, which requirement is now satisfied. It must also be provided to all members of Council, given at no charge to the public on request and posted on the municipal website.

## Summary Report

The Summary Report must be provided to all members of Council before March 31, 2024. Although the Report gives information for all parts of the UWSS, the information that refers to the Kingsville Water Distribution System satisfies the requirements of Schedule 22, Reg. 170/03.

Please call me if you have any questions or comments.

Yours truly,

A handwritten signature in blue ink, appearing to read 'R. Bouchard', is written over a light blue horizontal line.

Rodney Bouchard, CEO  
Union Water Supply System Inc.

kmj

CC: Shaun Martinho



**Ontario Clean Water Agency**  
**Agence Ontarienne Des Eaux**



**Annual Performance Report**

**Kingsville Distribution System**

**Drinking Water System # 220003403**

**2023**

**Prepared for the Corporation of the Town of Kingsville**

**By the Ontario Clean Water Agency**



# UNION WATER SUPPLY SYSTEM SUMMARY REPORT 2023

Made under Schedule 22 of Ontario Regulation 170/03, a regulation made under the Safe Drinking Water Act, 2002

## EXPLANATION

Schedule 22 of Ontario Regulation 170/03, a regulation made under the Safe Drinking Water Act, 2002 requires that a large municipal residential drinking-water system that is owned by a municipality, municipal board or municipal corporation must provide to its councillors or board members a Summary Report on various aspects of the system before March 31<sup>st</sup> of the following year. The Union Water Supply System is classed as a large municipal residential drinking-water system and is therefore subject to Schedule 22.

## THE SUMMARY REPORT MUST CONTAIN THE FOLLOWING:

- Requirements of the Safe Drinking Water Act, 2002 that the system failed to meet during 2023
- Any requirements of the regulations made under the Safe Drinking Water Act, 2002 that the system failed to meet in 2023
- Any condition of the drinking-water system's drinking water works permit or municipal drinking water license that the system failed to meet during 2023
- Any order that the system failed to meet in 2023, the duration of any such failure and any measures that were taken to correct such failure.
- A summary of the quantities and flow rates of water supplied by the drinking-water system by monthly average and maximum daily flow rates and instantaneous peak flow rates.
- A comparison of actual flow rates with rated capacity and flow rates in the systems approval

A drinking-water system that supplies water to another drinking water system must provide a copy of the Summary Report to that system's owner by March 31<sup>st</sup> of the year following the year covered in the Summary Report.

The sections below detail the occasions on which the Union Water Supply System (UWSS) and the connected municipal water systems failed to meet the requirements of the Safe Drinking Water Act 2002, associated regulations, system approvals and provincial officer orders in 2023.

## UNION WATER SUPPLY SYSTEM (UWSS)

The following provides details of occurrences where the UWSS was not in compliance with the requirements of the Safe Drinking Water Act 2002, associated regulations, system approvals and provincial officer orders.

### ***Non-Compliance Item:***

There was one (1) instance of non-compliances or Adverse Water Quality Incidents (AWQIs) identified for the portion of the Union Water Supply System:

- Low pressure event in the distribution system, caused by storm event. Outage caused loss of communications and the Kingsville Water Tower eventually emptied. Event took place on August 24, 2023 between 3:30 am and 4:30 am. Pressure dropped below 20 psi for 66 minutes. A precautionary boil water advisory was put into place on the morning of August 24th, 2024 for water users within the Kingsville Water tower service area. This was conducted in consultation with the Windsor Essex County Health Unit (WECHU). OCWA operations staff collected samples from the distribution system in the affected area and submitted the samples to an accredited laboratory for bacteriological testing. Laboratory results for these samples were returned late afternoon of August 25th, 2023 with negative results for Total Coliforms and E. coli. Based on these results, WECHU agreed to lift the boil water advisory for the affected area.

## LEAMINGTON WATER DISTRIBUTION SYSTEM

### ***Non-Compliance Item:***

There were no non-compliances or Adverse Water Quality Incidents (AWQIs) identified for the portion of the Leamington Distribution System that is supplied by the Union Water Supply System.

## KINGSVILLE WATER DISTRIBUTION SYSTEM

### ***Non-Compliance Item:***

There were no non-compliances or Adverse Water Quality Incidents (AWQIs) identified for the portion of the Kingsville Distribution System that is supplied by the Union Water Supply System.

## ESSEX WATER DISTRIBUTION SYSTEM

### ***Non-Compliance Item:***

There were no non-compliances or Adverse Water Quality Incidents (AWQIs) identified for the portion of the Essex Distribution System that is supplied by the Union Water Supply System.

## LAKESHORE WATER DISTRIBUTION SYSTEM

### ***Non-Compliance Item:***

There were no non-compliances or Adverse Water Quality Incidents (AWQIs) identified for the portion of the Lakeshore Distribution System that is supplied by the Union Water Supply System.

## SUMMARY OF THE QUANTITIES

The following sections provide information in regard to the Union Water Supply System's Permit to Take Water, issued under Ontario Regulation 387/04 and Drinking Water License issued under the Safe Drinking Water Act, 2002. Information includes the following:

- Flow Rates of Water
- Monthly Average
- Maximum Daily Flows
- Daily Instantaneous Peak Flow Rates

## PERMIT TO TAKE WATER

The Union Water Supply System operated under Permit to Take Water (PTTW) Number 0816-9T9SVT, which expires January 31<sup>st</sup>, 2025. The PTTW has the following flow conditions:

- Maximum Allowable Amount Taken per Minute (Litres/Min) 113,650
- Maximum Allowable Amount Taken Per Day (Litres/Day) 163,656,000

The maximum amounts of raw water taken during 2023 (see Table 1 below) are as follows:

- Maximum Amount Taken per Minute in 2023 (Litres/Min) 88,844
- Maximum Amount Taken Per Day in 2023 (Litres/Day) 115,662,000

The system did not exceed the PTTW limits in 2023.

## DRINKING WATER LICENCE

The UWSS operates under Municipal Drinking Water Licence 041-101; issue Number 7 which has been issued for the period July 18, 2021 to July 17, 2024. The Certificate of Approval and licence had the following condition:

- The drinking water system shall not be operated to exceed 124,588 m<sup>3</sup>/d (27.4 MIGD) on any calendar day, conveyed from the treatment system to the distribution system.
- The maximum daily volume of water pumped into the distribution system was 108,676m<sup>3</sup> (23.91 MIGD).

Tables 1A through 3B below provide the monthly average, maximum and peak flows for raw and treated water for the Union Water Supply System.

| TABLE 1A   |                                    |                       |                       |                           |   |                           |
|--|------------------------------------|-----------------------|-----------------------|---------------------------|---|---------------------------|
| 2023 RAW WATER TAKING FROM LAKE ERIE IN METRIC UNITS |                                    |                       |                       |                           |   |                           |
|  | Maximum Allowed Flow Rate (m3/Day) | Average Flow (m3/Day) | Maximum Flow (m3/Day) | Maximum Flow (Litres/Day) | Maximum Allowed Flow Rate (Litres/Minute) | Peak Flow (Litres/Minute) |
| January  | 163,656                            | 42,504.48             | 49,749.00             | 49,749,000                | 113,650                                   | 41,084                    |
| February   | 163,656                            | 47,846.75             | 58,115.00             | 58,115,000                | 113,650                                   | 48,234                    |
| March  | 163,656                            | 61,248.29             | 75,668.00             | 75,668,000                | 113,650                                   | 59,645                    |
| April  | 163,656                            | 61,651.73             | 80,244.00             | 80,244,000                | 113,650                                   | 68,845                    |
| May  | 163,656                            | 77,170.74             | 106,759.00            | 106,759,000               | 113,650                                   | 88,844                    |
| June   | 163,656                            | 83,022.30             | 115,662.00            | 115,662,000               | 113,650                                   | 88,708                    |
| July   | 163,656                            | 76,728.81             | 97,729.00             | 97,729,000                | 113,650                                   | 80,424                    |
| August   | 163,656                            | 72,192.10             | 95,129.00             | 95,129,000                | 113,650                                   | 85,586                    |
| September  | 163,656                            | 73,200.67             | 88,528.00             | 88,528,000                | 113,650                                   | 79,145                    |
| October  | 163,656                            | 60,178.81             | 78,684.00             | 78,684,000                | 113,650                                   | 68,621                    |
| November   | 163,656                            | 52,407.83             | 65,680.00             | 65,680,000                | 113,650                                   | 62,677                    |
| December   | 163,656                            | 38,499.94             | 45,625.00             | 45,625,000                | 113,650                                   | 54,314                    |

| TABLE 1B   |                                 |                    |                    |  |                            |  |
|--|---------------------------------|--------------------|--------------------|--|----------------------------|--|
| 2023 RAW WATER TAKING FROM LAKE ERIE IN IMPERIAL UNITS |                                 |                    |                    |  |                            |  |
|  | Maximum Allowed Flow Rate (MGD) | Average Flow (MGD) | Maximum Flow (MGD) | Maximum Allowed Flow Rate (Gallons/Minute) | Peak Flow (Gallons/Minute) |  |
| January  | 36.00                           | 9.35               | 10.94              | 25,000                                     | 9,037                      |  |
| February   | 36.00                           | 10.52              | 12.78              | 25,000                                     | 10,610                     |  |
| March  | 36.00                           | 13.47              | 16.64              | 25,000                                     | 13,120                     |  |
| April  | 36.00                           | 13.56              | 17.65              | 25,000                                     | 15,144                     |  |
| May  | 36.00                           | 16.98              | 23.48              | 25,000                                     | 19,543                     |  |
| June   | 36.00                           | 18.26              | 25.44              | 25,000                                     | 19,513                     |  |
| July   | 36.00                           | 16.88              | 21.50              | 25,000                                     | 17,691                     |  |
| August   | 36.00                           | 15.88              | 20.93              | 25,000                                     | 18,826                     |  |
| September  | 36.00                           | 16.10              | 19.47              | 25,000                                     | 17,410                     |  |
| October  | 36.00                           | 13.24              | 17.31              | 25,000                                     | 15,095                     |  |
| November   | 36.00                           | 11.53              | 14.45              | 25,000                                     | 13,787                     |  |
| December   | 36.00                           | 8.47               | 10.04              | 25,000                                     | 11,947                     |  |

TABLE 2A

## 2023 TREATED WATER FLOW INTO DISTRIBUTION SYSTEM IN METRIC UNITS

|  |                  | Maximum Allowed Flow Rate (m3/Day) | Average Daily Flow (m3/Day) | Maximum Daily Flow (m3/Day) | Peak Instantaneous Flow (Litres/Second) |  |
|--|------------------|------------------------------------|-----------------------------|-----------------------------|---|--|
|  | <b>January</b>   | 124,588                            | 39,183                      | 47,039                      | 907                                     |  |
|  | <b>February</b>  | 124,588                            | 44,216                      | 50,368                      | 1,217                                   |  |
|  | <b>March</b>     | 124,588                            | 50,777                      | 60,295                      | 1,332                                   |  |
|  | <b>April</b>     | 124,588                            | 58,633                      | 77,233                      | 1,506                                   |  |
|  | <b>May</b>       | 124,588                            | 74,985                      | 105,072                     | 1,768                                   |  |
|  | <b>June</b>      | 124,588                            | 80,101                      | 108,676                     | 1,748                                   |  |
|  | <b>July</b>      | 124,588                            | 71,461                      | 88,099                      | 1,900                                   |  |
|  | <b>August</b>    | 124,588                            | 66,820                      | 87,607                      | 1,726                                   |  |
|  | <b>September</b> | 124,588                            | 67,972                      | 82,557                      | 1,563                                   |  |
|  | <b>October</b>   | 124,588                            | 55,406                      | 71,008                      | 1,368                                   |  |
|  | <b>November</b>  | 124,588                            | 43,440                      | 52,313                      | 1,047                                   |  |
|  | <b>December</b>  | 124,588                            | 38,525                      | 46,015                      | 979                                     |  |

TABLE 2B

## 2023 TREATED WATER FLOW INTO DISTRIBUTION SYSTEM IN IMPERIAL UNITS

|  |                  | Maximum Allowed Flow Rate (MGD) | Average Daily Flow (MGD) | Maximum Daily Flow (MGD) | Peak Instantaneous Flow (Gallons/Second) |  |
|--|------------------|---------------------------------|--------------------------|--------------------------|--|--|
|  | <b>January</b>   | 27.4                            | 8.62                     | 10.35                    | 199                                      |  |
|  | <b>February</b>  | 27.4                            | 9.73                     | 11.08                    | 268                                      |  |
|  | <b>March</b>     | 27.4                            | 11.17                    | 13.26                    | 293                                      |  |
|  | <b>April</b>     | 27.4                            | 12.90                    | 16.99                    | 331                                      |  |
|  | <b>May</b>       | 27.4                            | 16.50                    | 23.12                    | 389                                      |  |
|  | <b>June</b>      | 27.4                            | 17.62                    | 23.91                    | 384                                      |  |
|  | <b>July</b>      | 27.4                            | 15.72                    | 19.38                    | 418                                      |  |
|  | <b>August</b>    | 27.4                            | 14.70                    | 19.27                    | 380                                      |  |
|  | <b>September</b> | 27.4                            | 14.95                    | 18.16                    | 344                                      |  |
|  | <b>October</b>   | 27.4                            | 12.19                    | 15.62                    | 301                                      |  |
|  | <b>November</b>  | 27.4                            | 9.56                     | 11.51                    | 230                                      |  |
|  | <b>December</b>  | 27.4                            | 8.48                     | 10.12                    | 215                                      |  |

TABLE 3A

## 2023 TREATED FLOW TO LOCAL MUNICIPALITIES IN METRIC UNITS

|                  | <u>Leamington</u>  |                      | <u>Kingsville</u>  |                      | <u>Essex</u>       |                      | <u>Lakeshore</u>   |                      |
|------------------|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|
|                  | Monthly Total (m3) | Average Day (m3/day) |
| <b>January</b>   | 690,894            | 22,287               | 430,377            | 13,883               | 73,940             | 2,385                | 54,962             | 1,773                |
| <b>February</b>  | 699,975            | 24,137               | 444,613            | 15,331               | 62,313             | 2,149                | 47,837             | 1,650                |
| <b>March</b>     | 870,883            | 28,093               | 574,918            | 18,546               | 88,356             | 2,850                | 52,618             | 1,697                |
| <b>April</b>     | 911,393            | 30,380               | 620,896            | 20,697               | 84,347             | 2,812                | 49,584             | 1,653                |
| <b>May</b>       | 1,343,652          | 43,344               | 862,049            | 27,808               | 114,547            | 3,695                | 72,992             | 2,355                |
| <b>June</b>      | 1,397,026          | 46,568               | 855,690            | 28,523               | 103,126            | 3,438                | 77,452             | 2,582                |
| <b>July</b>      | 1,319,391          | 42,561               | 764,680            | 24,667               | 80,570             | 2,599                | 65,369             | 2,109                |
| <b>August</b>    | 1,228,808          | 39,639               | 729,012            | 23,517               | 75,038             | 2,421                | 61,883             | 1,996                |
| <b>September</b> | 1,138,387          | 37,946               | 723,264            | 24,109               | 68,797             | 2,293                | 59,305             | 1,977                |
| <b>October</b>   | 1,058,497          | 34,145               | 613,341            | 19,785               | 73,230             | 2,362                | 60,326             | 1,946                |
| <b>November</b>  | 793,903            | 26,463               | 403,918            | 13,464               | 61,713             | 2,057                | 54,111             | 1,804                |
| <b>December</b>  | 707,304            | 22,816               | 386,549            | 12,469               | 66,340             | 2,140                | 57,682             | 1,861                |
| <b>Total</b>     | <b>12,160,113</b>  | <b>33,198</b>        | <b>7,409,307</b>   | <b>20,233</b>        | <b>952,317</b>     | <b>2,600</b>         | <b>714,121</b>     | <b>1,950</b>         |
|                  |                    |                      |                    |                      |                    |                      |                    |                      |

| TABLE 3B  |                                  |                   |                                  |                   |                                  |                   |                                  |                   |
|---|----------------------------------|-------------------|----------------------------------|-------------------|----------------------------------|-------------------|----------------------------------|-------------------|
| 2023 TREATED FLOW TO LOCAL MUNICIPALITIES IN IMPERIAL UNITS |                                  |                   |                                  |                   |                                  |                   |                                  |                   |
|   | <u>Leamington</u>                |                   | <u>Kingsville</u>                |                   | <u>Essex</u>                     |                   | <u>Lakeshore</u>                 |                   |
|   | Monthly Total (Imperial Gallons) | Average Day (MGD) | Monthly Total (Imperial Gallons) | Average Day (MGD) | Monthly Total (Imperial Gallons) | Average Day (MGD) | Monthly Total (Imperial Gallons) | Average Day (MGD) |
| <b>January</b>  | 151,975,434                      | 4.90              | 94,669,705                       | 3.05              | 16,264,526                       | 0.52              | 12,089,950                       | 0.39              |
| <b>February</b>   | 153,972,975                      | 5.31              | 97,801,187                       | 3.37              | 13,706,944                       | 0.47              | 10,522,669                       | 0.36              |
| <b>March</b>  | 191,567,479                      | 6.18              | 126,464,280                      | 4.08              | 19,435,603                       | 0.63              | 11,574,342                       | 0.37              |
| <b>April</b>  | 200,478,433                      | 6.68              | 136,578,026                      | 4.55              | 18,553,746                       | 0.62              | 10,906,955                       | 0.36              |
| <b>May</b>  | 295,562,120                      | 9.53              | 189,624,271                      | 6.12              | 25,196,817                       | 0.81              | 16,055,995                       | 0.52              |
| <b>June</b>   | 307,302,759                      | 10.24             | 188,225,486                      | 6.27              | 22,684,549                       | 0.76              | 17,037,058                       | 0.57              |
| <b>July</b>   | 290,225,446                      | 9.36              | 168,206,085                      | 5.43              | 17,722,922                       | 0.57              | 14,379,170                       | 0.46              |
| <b>August</b>   | 270,299,972                      | 8.72              | 160,360,222                      | 5.17              | 16,506,052                       | 0.53              | 13,612,357                       | 0.44              |
| <b>September</b>  | 250,410,133                      | 8.35              | 159,095,838                      | 5.30              | 15,133,224                       | 0.50              | 13,045,276                       | 0.43              |
| <b>October</b>  | 232,836,789                      | 7.51              | 134,916,159                      | 4.35              | 16,108,348                       | 0.52              | 13,269,865                       | 0.43              |
| <b>November</b>   | 174,634,246                      | 5.82              | 88,849,539                       | 2.96              | 13,574,962                       | 0.45              | 11,902,756                       | 0.40              |
| <b>December</b>   | 155,585,129                      | 5.02              | 85,028,893                       | 2.74              | 14,592,760                       | 0.47              | 12,688,266                       | 0.41              |
| <b>Total</b>  | <b>2,674,850,916</b>             | <b>7.30</b>       | <b>1,629,819,691</b>             | <b>4.45</b>       | <b>209,480,455</b>               | <b>0.57</b>       | <b>157,084,660</b>               | <b>0.43</b>       |

**ANNUAL REPORT**

|                                 |  |
|---------------------------------|--|
| Drinking Water System Number:   | 220003403                                  |
| Drinking Water System Name:     | Kingsville Distribution System (Union WSS) |
| Drinking Water System Owner:    | The Corporation of The Town of Kingsville  |
| Drinking Water System Category: | Large Municipal Residential                |
| Period being reported:          | 01-January-2023 to 31-December 2023        |

|  |  |
|--|--|
| <p><b><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></b></p> <p>Does your Drinking Water System serve more than 10,000 people? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> <p>Town of Kingsville Municipal Office<br/>2021 Division Rd. North,<br/>Kingsville, Ontario</p> </div> | <p><b><u>Complete for all other Categories</u></b></p> <p>Number of Designated Facilities served:<br/><div style="border: 1px solid black; padding: 2px; display: inline-block;">N/A</div></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Number of Interested Authorities you report to: <div style="border: 1px solid black; padding: 2px; display: inline-block;">N/A</div></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes <input type="checkbox"/> No <input type="checkbox"/></p> |
|--|--|

**Note:** For the following tables below, additional rows or columns may be added, or an appendix may be attached to the report

List all Drinking Water Systems (if any), which receive all their drinking water from your system:

| Drinking Water System Name | Drinking Water System Number |
|----------------------------|------------------------------|
| N/A                        | N/A                          |

Did you provide a copy of your annual report to all Drinking Water System owners that are connected to you and to whom you provide all drinking water? Yes  No  [N/A]

Indicate how you notified system users that your annual report is available and is free of charge.

- Public access/notice via the web
- Public access/notice via Government Office
- Public access/notice via a newspaper
- Public access/notice via Public Request
- Public access/notice via a Public Library
- Public access/notice via other method \_\_\_ as, and when requested

**Describe your Drinking Water System**

Distribution only.  
Water Distribution Class II serving approximately 22,119 people through approximately 8500 service connections fed from approximately 315 km of system infrastructure water main.

**List all water treatment chemicals used over this reporting period**

N/A

**Were any significant expenses incurred to?**

- Install required equipment
- Repair required equipment
- Replace required equipment

**Please provide a brief description and a breakdown of monetary expenses incurred**

Road 2 E Water Main- \$2,889,660.00  
Hwy 3 Water Main- \$786,527.00  
Banar Subdivision Phase 2- \$1,160,479.00  
Bulk Water Filling Station Repairs- \$23,597.00  
Water Meter Upgrade Program- \$121,673.00

Provide details on the notices submitted in accordance with subsection 18 (1) of the Safe Drinking Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

| Incident Date | Parameter | Result | Unit of Measure | Corrective Action | Corrective Action Date |
|---------------|-----------|--------|-----------------|-------------------|------------------------|
| None          |           |        |                 |                   |                        |

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period

|                     | Number of Samples   | Range of E. Coli Results (min #)-(max #) | Range of Total Coliform Results (min #)-(max #) | Number of HPC Samples | Range of HPC Results (min #)-(max #) |
|---------------------|---|--|---|-----------------------|--------------------------------------|
| <b>Raw</b>          | See annual report for the Union Water Supply System # 210000853 |  |   |                       |                                      |
| <b>Treated</b>      | See annual report for the Union Water Supply System # 210000853 |  |   |                       |                                      |
| <b>Distribution</b> | 472   | 0-0                                      | 0-0   | 210                   | <10 - <20                            |

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

|  | Number of Grab Samples   | Range of Results (min #)-(max #) | Unit of Measure |
|--|--|----------------------------------|-----------------|
| <b>Turbidity</b>                                   | Please see the Annual Report for the Union Water Supply System # 210000853 |                                  |                 |
| <b>Chlorine</b>                                    | 624  | 0.74 - 1.72                      | mg/L            |
| <b>Fluoride</b> (If the DWS provides fluoridation) | N/A  |                                  |                 |

**NOTE: For continuous monitors use 8760 as the number of samples**

Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.

| Date of legal instrument issued | Parameter | Date Sampled | Result | Unit of Measure |
|---------------------------------|-----------|--------------|--------|-----------------|
| None                            |           |              |        |                 |

**Summary of Inorganic parameters tested during this reporting period or the most recent sample results**

| Parameter       | Sample Date  | Result Value | Unit of Measure | Exceedance |
|-----------------|--------------|--------------|-----------------|------------|
| Nitrite (N)     | 03-Jan-2023  | <0.1         | mg/L            | No         |
| Nitrate (N)     |              | 0.4          | mg/L            | No         |
| Ammonia N-Total |              | <0.01        | mg/L            | No         |
| Nitrite (N)     | 03-Apr-2023  | <0.05        | mg/L            | No         |
| Nitrate (N)     |              | 0.81         | mg/L            | No         |
| Ammonia N-Total |              | <0.05        | mg/L            | No         |
| Nitrite (N)     | 04-July-2023 | < 0.05       | mg/L            | No         |
| Nitrate (N)     |              | 0.44         | mg/L            | No         |
| Ammonia N-Total |              | 0.07         | mg/L            | No         |
| Nitrite (N)     | 03-Oct-2023  | <0.05        | mg/L            | No         |
| Nitrate (N)     |              | <0.05        | mg/L            | No         |
| Ammonia N-Total |              | 0.06         | mg/L            | No         |

**Summary of lead testing under Schedule 15.1 during this reporting period**

(applicable to the following drinking water systems; large municipal residential systems, small municipal residential systems, and non-municipal year-round residential systems)

| Location Type | Number of Samples | Range of Lead Results (min#) – (max #) | Unit of Measure | Number of Exceedances |
|---------------|-------------------|--|-----------------|-----------------------|
| Plumbing      | N/A               |  |                 |                       |
| Distribution  | 21                | 0.02 – 0.95                            | ug/L            | None                  |

**Summary of Organic parameters sampled during this reporting period or the most recent sample results**

| Parameter | Sample Date    | Result Value | Unit of Measure | Exceedance |
|-----------|----------------|--------------|-----------------|------------|
| THM       | Annual Average | 27.25        | ug/L            | No         |
| HAA       | Annual Average | 10.63        | ug/L            | No         |

**List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards**

| Parameter | Result Value | Unit of Measure | Date of Sample |
|-----------|--------------|-----------------|----------------|
| None      |              |                 |                |