



# Township of Oro-Medonte Drinking Water Compliance Report 2023

## Canterbury Drinking Water System

Annual and Municipal Summary Reports

(Prepared in accordance with Section 11 and Schedule 22 of Ontario Regulation 170/03)

Period Covering: January 1 to December 31, 2023

February 28, 2024

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## 1 Introduction

The Township of Oro-Medonte has prepared this report to satisfy the requirements of Section 11: Annual Report and Schedule 22: Summary Reports for Municipalities of Ontario Regulation (O.Reg.) 170/03.

This report covers the period of January 1 to December 31, 2023, and applies to the following municipally-owned and operated drinking water system:

- Canterbury Drinking Water System (DWS #220007454)

## 2 Reporting Requirements

### 2.1 Requirements under Section 11: Annual Report

Section 11 of O.Reg 170/03 requires that the Owner of a drinking water system shall ensure that an annual report, covering the period from January 1 to December 31 in a year, be prepared no later than February 28 of the following year. The report must include the following information relating to the period covered by the report:

- Include a statement of where a report prepared under Schedule 22 will be available for inspection by any member of the public during normal business hours without charge;
- Contain a brief description of the drinking water system, including a list of water treatment chemicals used by the system;
- Describe any major expenses incurred to install, repair or replace required equipment;
- Summarize any reports made to the Ministry of Environment, Conservation and Parks (MECP) for Adverse Water Quality Incidents (AWQIs);
- Summarize the results of tests required under O.Reg. 170/03, or under an approval, municipal drinking water licence or order, including an Ontario Water Resources Act order, if tests required under this Regulation in respect of a parameter were not required during that period, summarize the most recent results of tests of that parameter; and,
- Describe any corrective actions taken.

### 2.2 Requirements under Schedule 22: Summary Report for Municipalities

Schedule 22 of O.Reg 170/03 requires that the report be prepared no later than March 31 of the following year, and include the following information relating to the period covered by the report:

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- List the requirements of the Act, the regulations, the system’s approval, drinking water works permit, municipal drinking water licence, and any orders applicable to the system that were not met at any time during the period covered by the report with specifics to the duration and measures that were taken to correct the failure.
- The report must also include the following information to enable the Owner of the system to assess the capability of the system to meet existing and planned uses of the system:
  - Summarize the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows; and,
  - Compare the aforementioned summary of quantities and flow rates to the rated capacity and flow rates approved in the system’s approval, drinking water works permit, or municipal drinking water licence.

### 3 Compliance Reporting Requirement

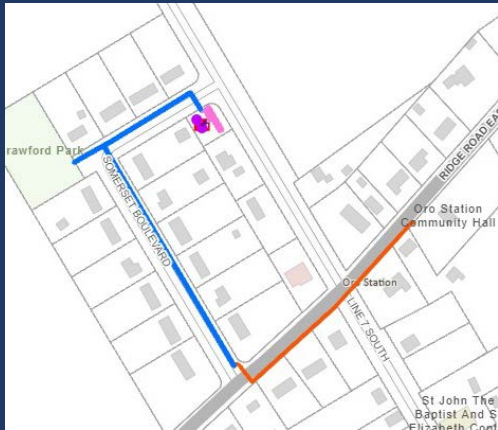
#### 3.1 Availability of the Drinking Water Compliance Report

In accordance with Section 11 of O.Reg. 170/03, a copy of the report is available to the public, free of charge from the following outlets:

- Township of Oro-Medonte’s website ([www.oro-medonte.ca](http://www.oro-medonte.ca)); and,
- Public request at the Municipal Office, located at 148 Line 7 South, Oro-Medonte.

The public is advised of the report’s availability and how to obtain a copy, without charge, on the Township of Oro-Medonte’s website and social media by February 28<sup>th</sup>, 2024.

4 Canterbury Drinking Water System



## CANTERBURY

**Drinking Water System Number: 220007454**

**Raw Water Source: Groundwater**

**Drinking Water System Category: Small Municipal Residential**

**Drinking Water System Classification: Water Supply & Distribution Class 2**

**Population Served: Approx. 63 persons**

4.1 Municipal Drinking Water System Description

The Canterbury Drinking Water System (DWS # 220007454) is located at 1 Somerset Boulevard, Concession 7, Oro-Medonte. The facility is owned and operated by the Corporation of the Township of Oro-Medonte in accordance with its specific MDWL, DWWP, PTTW, and all other applicable legislation.

This groundwater facility consists of two production wells, process piping, and chlorine contact main entering the distribution system. Raw water is conveyed to the pumphouse, where treatment includes chlorination with sodium hypochlorite prior to delivery to the first consumer. Primary disinfection is achieved through the CT disinfection concept using the combination of a disinfectant residual concentration and effective contact time by means of a chlorine contact main. Treated water enters the distribution system based on usage demands within the system. Four (4) pressure tanks within the pumphouse maintain and regulate system pressure during peak hour demands.

The distribution system consists of approximately 315m of 150mm watermain, 244m of 25mm watermain, six (6) valves, three (3) sample stations servicing approximately 18 residential homes and a community hall.

The drinking water system’s operation is continuously monitored 24 hours a day, seven days a week through a computerized SCADA system, equipped with alarming for a certified water operator dispatch when operational issues arise. Emergency backup power is fulfilled through a 20 kW natural gas generator.

## 4.2 Water Treatment Chemicals

The following water treatment chemicals were utilized during the reporting period:

- Sodium Hypochlorite (12%)

## 4.3 Major Expenses Incurred within the Drinking Water System

The Township of Oro-Medonte has determined expenses over \$25,000 to be considered a ‘major expense’. A brief summary of the major or notable expenses incurred during the reporting period to install, repair or replace required equipment, and the value of each, is included in the Table below.

**Table 1: Major or Notable Expense Summary**

| Expense                                                                       | Cost Incurred |
|-------------------------------------------------------------------------------|---------------|
| SCADA Software Upgrade (\$7,000 cost split across all drinking water systems) | \$650         |

## 4.4 Ontario Regulation (O.Reg) 170/03: Operational Checks, Sampling and Testing

O.Reg. 170/03 outlines specific operational checks and sampling requirements for drinking water systems, while O.Reg. 169/03 specifies drinking water quality standards and maximum allowable concentrations of analytical parameters.

During the reporting period, the required operational checks were completed and drinking water samples were collected in accordance with O.Reg. 170/03. All accredited laboratory results for analyzed samples met the requirements and did not exceed the applicable standards stipulated in O.Reg. 169/03.

No additional testing and sampling were required in 2023 due to any requirements of an approval, order, or other legal instruments.

### 4.4.1 Schedule 7 Operational Checks (O.Reg 170/03)

Operational checks of measurements of free chlorine residuals and raw water turbidity were conducted in accordance with the small residential drinking water system requirements as prescribed by O.Reg.170/03, Schedule 7. No data is reported for fluoride as the Township of Oro-Medonte does not fluoridate any of its drinking water systems.

**Table 2: Schedule 7 - Operational Checks Summary**

| Parameter                    | Sample Count | Range of Results (min/Avg/max) |
|------------------------------|--------------|--------------------------------|
| Raw Turbidity (NTU) – Well 1 | 12           | 0.31/0.46/0.61                 |
| Raw Turbidity (NTU) – Well 2 | 12           | 0.26/0.49/0.70                 |
| Chlorine (mg/L)              | 8760*        | 0.58/1.28/3.69**               |
| Fluoride                     | N/A          | N/A                            |

\* 8760 is the number of samples used for continuous monitoring.

\*\* The range of chlorine results incorporates maintenance activities and operational testing. It does not necessarily reflect residuals within the distribution system.

#### 4.4.2 Schedule 11: Microbiological Sampling and Testing (O.Reg 170/03)

Raw, treated and distribution water samples were collected and analyzed for microbiological parameters specified in Section 11-2, 11-3, and 11-4 of O.Reg. 170/03. All accredited laboratory results for samples analyzed for microbiological parameters met the requirements and did not exceed the applicable standards stipulated in O.Reg. 169/03, unless otherwise stated in Section 4.5.1 ‘Schedule 16: Reporting of Adverse Test Results and Other Problems’ of this report.

Raw, treated and distribution drinking water samples were analyzed for bacteriological health-related parameters including E.coli, total coliform, background bacteria (background,) and heterotrophic plate count (HPC). The presence of HPC and background bacteria indicates that when measured in counts greater than 200 CFU per 100 mL, it may indicate a deterioration in water quality within the drinking water system and initiate additional maintenance activities, such as flushing. The results for microbiological and bacteriological parameters during this reporting period are summarized below for reference.

**Table 3: Schedule 11 Microbiological Sampling and Testing Summary**

| Source       | Sample Count | E.coli (CFU/100 mL) | Total Coliform (CFU/100 mL) | Background (CFU/100 mL) | HPC (CFU/1 mL) |          |
|--------------|--------------|---------------------|-----------------------------|-------------------------|----------------|----------|
|              |              | (min-max)           | (min-max)                   | (min-max)               | (min-max)      |          |
| Raw          | Well 1       | 26                  | 0 – 0                       | 0 – 3                   | 0 – 6          | N/A      |
|              | Well 2       | 26                  | 0 – 0                       | 0 – 3                   | 0 – 23         | N/A      |
| Treated      | -            | 26                  | 0 – 0                       | 0 – 0                   | 0 – 0          | N/A      |
| Distribution | -            | 26                  | 0 – 0                       | 0 – 0                   | 0 - 0          | <10 - 10 |

Note: Total coliform results in raw drinking water samples are prior to treatment.

**4.4.3 Schedule 13: Chemical Testing (O.Reg 170/03)**

Drinking water samples were collected from the drinking water system and analyzed for all parameters in accordance with O.Reg. 170/03, Schedule 13. All samples analyzed met the requirements and did not exceed the applicable standards stipulated in O.Reg. 169/03.

If chemical analysis under O.Reg. 170/03 was not required during this reporting period; the most recent analytical results for that parameter have been summarized in the tables below for reference, in accordance with O.Reg. 170/03, Section 11.

Under Section 13-2 and 13-4, sampling requirements for inorganics and organics are once every 60 months and tested for every parameter listed in O.Reg 170/03, Schedules 23 and 24. Results indicated that all parameters were below half the maximum allowable concentration in Schedule 2 in the Ontario Drinking Water Quality Standards. The most recent chemical parameters results are summarized in the table below for reference.

**Table 4: Schedule 23 Inorganic and Schedule 24 Organic Results Summary**

| Parameter                               | Date Sampled | Results   | Units | Exceedance |
|-----------------------------------------|--------------|-----------|-------|------------|
| <b>Schedule 23: Inorganics</b>          |              |           |       |            |
| Antimony                                | 2021/06/16   | 0.9<MDL   | ug/L  | No         |
| Arsenic                                 | 2021/06/16   | 0.4       | ug/L  | No         |
| Barium                                  | 2021/06/16   | 130       | ug/L  | No         |
| Boron                                   | 2021/06/16   | 18        | ug/L  | No         |
| Cadmium                                 | 2021/06/16   | 0.004     | ug/L  | No         |
| Chromium                                | 2021/06/16   | 0.32      | ug/L  | No         |
| Mercury                                 | 2021/06/16   | 0.01<MDL  | ug/L  | No         |
| Selenium                                | 2021/06/16   | 0.04<MDL  | ug/L  | No         |
| Uranium                                 | 2021/06/16   | 0.063     | ug/L  | No         |
| <b>Schedule 24: Organics</b>            |              |           |       |            |
| Aalachlor                               | 2021/06/16   | 0.02<MDL  | ug/L  | No         |
| Atrazine +<br>N-dealkylated metabolites | 2021/06/16   | 0.01<MDL  | ug/L  | No         |
| Azinphos-methyl                         | 2021/06/16   | 0.05<MDL  | ug/L  | No         |
| Benzene                                 | 2021/06/16   | 0.32<MDL  | ug/L  | No         |
| Benzo(a)pyrene                          | 2021/06/16   | 0.004<MDL | ug/L  | No         |
| Bromoxynil                              | 2021/06/16   | 0.33<MDL  | ug/L  | No         |
| Carbaryl                                | 2021/06/16   | 0.05<MDL  | ug/L  | No         |
| Carbofuran                              | 2021/06/16   | 0.01<MDL  | ug/L  | No         |
| Carbon Tetrachloride                    | 2021/06/16   | 0.17<MDL  | ug/L  | No         |
| Chlorpyrifos                            | 2021/06/16   | 0.02<MDL  | ug/L  | No         |
| Diazinon                                | 2021/06/16   | 0.02<MDL  | ug/L  | No         |
| Dicamba                                 | 2021/06/16   | 0.20<MDL  | ug/L  | No         |
| 1,2-Dichlorobenzene                     | 2021/06/16   | 0.41<MDL  | ug/L  | No         |



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|                                               |            |             |      |    |
|-----------------------------------------------|------------|-------------|------|----|
| 1,4-Dichlorobenzene                           | 2021/06/16 | 0.36<MDL    | ug/L | No |
| 1,2-Dichloroethane                            | 2021/06/16 | 0.35<MDL    | ug/L | No |
| 1,1-Dichloroethylene<br>(vinylidene chloride) | 2021/06/16 | 0.33<MDL    | ug/L | No |
| Dichloromethane                               | 2021/06/16 | 0.35<MDL    | ug/L | No |
| 2-4 Dichlorophenol                            | 2021/06/16 | 0.15<MDL    | ug/L | No |
| 2,4-Dichlorophenoxy acetic<br>acid (2,4-D)    | 2021/06/16 | 0.19<MDL    | ug/L | No |
| Diclofop-methyl                               | 2021/06/16 | 0.40<MDL    | ug/L | No |
| Dimethoate                                    | 2021/06/16 | 0.06<MDL    | ug/L | No |
| Diquat                                        | 2021/06/16 | 1<MDL       | ug/L | No |
| Diuron                                        | 2021/06/16 | 0.03<MDL    | ug/L | No |
| Glyphosate                                    | 2021/06/16 | 1<MDL       | ug/L | No |
| Malathion                                     | 2021/06/16 | 0.02<MDL    | ug/L | No |
| Metolachlor                                   | 2021/06/16 | 0.01<MDL    | ug/L | No |
| Metribuzin                                    | 2021/06/16 | 0.02<MDL    | ug/L | No |
| Monochlorobenzene                             | 2021/06/16 | 0.3<MDL     | ug/L | No |
| MCPA                                          | 2021/06/16 | 0.00012<MDL | mg/L | No |
| Paraquat                                      | 2021/06/16 | 1<MDL       | ug/L | No |
| Pentachlorophenol                             | 2021/06/16 | 0.15<MDL    | ug/L | No |
| Phorate                                       | 2021/06/16 | 0.01<MDL    | ug/L | No |
| Picloram                                      | 2021/06/16 | 1<MDL       | ug/L | No |
| Polychlorinated Biphenyls<br>(PCB)            | 2021/06/16 | 0.04<MDL    | ug/L | No |
| Prometryne                                    | 2021/06/16 | 0.03<MDL    | ug/L | No |
| Simazine                                      | 2021/06/16 | 0.01<MDL    | ug/L | No |
| Terbufos                                      | 2021/06/16 | 0.01<MDL    | ug/L | No |
| Tetrachloroethylene                           | 2021/06/16 | 0.35<MDL    | ug/L | No |
| 2,3,4,6-Tetrachlorophenol                     | 2021/06/16 | 0.20<MDL    | ug/L | No |
| Triallate                                     | 2021/06/16 | 0.01<MDL    | ug/L | No |
| Trichloroethylene                             | 2021/06/16 | 0.44<MDL    | ug/L | No |
| 2,4,6-Trichlorophenol                         | 2021/06/16 | 0.25<MDL    | ug/L | No |
| Trifluralin                                   | 2021/06/16 | 0.02<MDL    | ug/L | No |
| Vinyl Chloride                                | 2021/06/16 | 0.17<MDL    | ug/L | No |

Note: '<MDL' indicates the result was below the detection limit for the parameter's analysis method used by the external lab.

Under Section 13-6 and 13-6.1, sampling requirements for the trihalomethanes (THMs) and haloacetic acids (HAAs) are quarterly and expressed as a running annual average (RAA), that is updated continually as quarterly sample results are received.

Regulatory reporting requirements for HAAs and its associated calculated RAA of quarterly results commenced January 1, 2020, although Environmental Services has been actively calculating RAA since 2017 as a best management practice to evaluate the status of the parameter within the drinking water system.

The 2023 THMs and HAAs results are summarized in the table below for reference.

**Table 5: Trihalomethanes and Haloacetic Acids Results Summary**

| Parameter              | Running Annual Average (RAA) | Unit | Exceedance |
|------------------------|------------------------------|------|------------|
| Trihalomethanes (THMs) | 7.30                         | ug/L | No         |
| Haloacetic Acid (HAAs) | 0.00                         | ug/L | No         |

Note: '<MDL' indicates the result was below the detection limit for the parameter's analysis method used by the external lab.

Under Section 13-7, sampling requirements for nitrate and nitrite are quarterly. The 2023 nitrate and nitrite results are summarized in the table below for reference.

**Table 6: Nitrate and Nitrite Results Summary**

| Parameter | Date Sampled | Results   | Unit | Exceedance |
|-----------|--------------|-----------|------|------------|
| Nitrate   | 2023/03/08   | 0.006     | mg/L | No         |
|           | 2023/05/24   | 0.008     | mg/L | No         |
|           | 2023/08/29   | 0.007     | mg/L | No         |
|           | 2023/12/05   | 0.006<MDL | mg/L | No         |
| Nitrite   | 2023/03/08   | 0.003<MDL | mg/L | No         |
|           | 2023/05/24   | 0.003<MDL | mg/L | No         |
|           | 2023/08/29   | 0.003<MDL | mg/L | No         |
|           | 2023/12/05   | 0.003<MDL | mg/L | No         |

Note: '<MDL' indicates the result was below the detection limit for the parameter's analysis method used by the external lab.

Under Section 13-8 and 13-9, sampling requirements for sodium and fluoride are once every 60 months. Sodium and fluoride sampling was completed 2023 and the results are summarized in the table below for reference. The next sampling will be due in 2028.

**Table 7: Sodium and Fluoride Results Summary**

| Parameter | Date Sampled | Results | Unit | Exceedance |
|-----------|--------------|---------|------|------------|
| Sodium    | 2023/08/29   | 12.80   | mg/L | No         |
| Fluoride  | 2023/08/29   | 0.13    | mg/L | No         |

**4.4.4 Schedule 15.1: Lead Testing (O.Reg 170/03)**

Lead samples are required to be collected from the drinking water system during the prescribed sampling periods of 'Winter' (December 15 to April 15) and 'Summer' (June 15 to October 15) in accordance with Schedule 15.1. The Canterbury Drinking Water System has met the eligibility criteria for a reduction in sampling requirements as prescribed in Section 15.1-5. The distribution system sampling is required as follows:

- Alkalinity and pH each year, every "Winter" and "Summer" period

- Lead once every 3 years, “Winter” and “Summer” period

Summarized in the table below are the 2023 total alkalinity and pH results for reference. Lead samples were last required to be sampled in 2021 and results can be referenced in the annual report for that year.

**Table 8: Alkalinity, pH and Lead Sampling Results Summary**

| Location Type | Sample Count | Date Sampled | Lead (ug/L) | Alkalinity (mg/L as CaCO <sub>3</sub> ) | pH  | Exceedance |
|---------------|--------------|--------------|-------------|-----------------------------------------|-----|------------|
| Plumbing      | N/A          | N/A          | N/A         | N/A                                     | N/A | N/A        |
| Distribution  | 1            | 2023/04/04   | N/A         | 175                                     | 7.9 | No         |
|               | 1            | 2023/10/04   | N/A         | 173                                     | 7.6 | No         |

## 4.5 Reporting and Corrective Actions

### 4.5.1 Schedule 16: Reporting of Adverse Test Results and Other Problems

In accordance with O.Reg 170/03, Schedule 16, notifications of adverse water quality incidents and other observations that indicate the potential of improperly disinfected water has been directed to users are provided to the MECP Spills Action Centre (SAC) and local Medical Officer of Health (Simcoe Muskoka District Health Unit (SMDHU)). During this reporting period, there were zero (0) incidents in the drinking water system.

### 4.5.2 Schedule 18: Corrective Actions

Due to the non-occurrence of any adverse test or other observations requiring reporting to the MECP, there were no corrective actions required.

**Table 9: Adverse Water Quality Incidents (AWQIs) & Corrective Actions Summary**

|                                                             |
|-------------------------------------------------------------|
| <b>AWQI Number:</b>                                         |
| There were no AWQIs to report during this reporting period. |
| <b>Incident Details:</b>                                    |
| N/A                                                         |
| <b>Corrective Action:</b>                                   |
| N/A                                                         |

## **4.6 Municipal Summary Report**

### **4.6.1 Schedule 22, Section 1**

The following table summarizes the requirements of the Act, the Regulations, the system’s approval, municipal drinking water licence, drinking water works permit, and any orders applicable to the system that were not met during the reporting period, including the duration and description of the corrective action(s) taken.

**Table 10: Regulatory Compliance Summary**

|                                                                                        |
|----------------------------------------------------------------------------------------|
| <b>Safe Drinking Water Act (SDWA) &amp; Associated Regulations</b>                     |
| No issues or non-compliances were identified during this reporting period.             |
| <b>Municipal Drinking Water Licence &amp; Drinking Water Work Permit</b>               |
| No issues or non-compliances were identified during this reporting period.             |
| <b>Provincial Orders</b>                                                               |
| No provincial orders were issued during this reporting period.                         |
| <b>Best Practice Issues and Recommendations</b>                                        |
| No recommendations or best practices were issued by MECP during this reporting period. |

### **4.6.2 Schedule 22, Section 2**

In order to assist the Township in assessing the capability of the system to meet existing and planned uses of the system, Appendix A and B summarize the quantities of water volumes supplied and offer a visual depiction of allowed water taking compared to drinking water system demands during the reporting period, including monthly average and maximum daily flows.

## **5 Conclusion**

This report satisfies the requirements of Section 11 and Schedule 22 of O.Reg. 170/03. Any questions regarding this report should be directed to Environmental Services.

## **Appendix A – Well Flow Summary**

## Canterbury Well Flow Summary Table

|           | Well 1                           |                               |                               |                        | Well 2                           |                               |                               |                        |
|-----------|----------------------------------|-------------------------------|-------------------------------|------------------------|----------------------------------|-------------------------------|-------------------------------|------------------------|
|           | Permitted Capacity: 104.5 m3/day |                               |                               |                        | Permitted Capacity: 104.5 m3/day |                               |                               |                        |
|           | Total Flow (m <sup>3</sup> )     | Average Day (m <sup>3</sup> ) | Maximum Day (m <sup>3</sup> ) | Max. Day/ Capacity (%) | Total Flow (m <sup>3</sup> )     | Average Day (m <sup>3</sup> ) | Maximum Day (m <sup>3</sup> ) | Max. Day/ Capacity (%) |
| January   | 155.70                           | 5.02                          | 9.44                          | 9.03                   | 115.65                           | 3.73                          | 8.92                          | 8.54                   |
| February  | 134.85                           | 4.82                          | 9.93                          | 9.50                   | 130.08                           | 4.65                          | 9.66                          | 9.24                   |
| March     | 133.78                           | 4.32                          | 6.87                          | 6.57                   | 126.16                           | 4.07                          | 6.54                          | 6.26                   |
| April     | 169.94                           | 5.66                          | 10.20                         | 9.76                   | 85.46                            | 2.85                          | 5.79                          | 5.54                   |
| May       | 253.59                           | 8.18                          | 20.21*                        | 19.34                  | 69.21                            | 2.23                          | 8.88                          | 8.50                   |
| June      | 268.77                           | 8.96                          | 15.35                         | 14.69                  | 8.43                             | 0.28                          | 3.17                          | 3.03                   |
| July      | 144.64                           | 4.67                          | 10.54                         | 10.09                  | 112.17                           | 3.62                          | 5.86                          | 5.61                   |
| August    | 153.62                           | 4.96                          | 11.39                         | 10.90                  | 142.50                           | 4.60                          | 10.58                         | 10.12                  |
| September | 150.31                           | 5.01                          | 8.93                          | 8.55                   | 143.66                           | 4.79                          | 7.93                          | 7.59                   |
| October   | 131.59                           | 4.24                          | 11.95                         | 11.44                  | 124.32                           | 4.01                          | 11.02*                        | 10.55                  |
| November  | 110.01                           | 3.67                          | 9.40                          | 9.00                   | 104.90                           | 3.50                          | 8.67                          | 8.30                   |
| December  | 112.87                           | 3.64                          | 4.58                          | 4.39                   | 110.16                           | 3.55                          | 4.77                          | 4.56                   |

\* Denotes month of maximum day flow for 2023.

## **Appendix B – Average and Maximum Daily Usage Compared to Permitted Daily Capacity**

## Average and Maximum Daily Usage Compared to Permitted Daily Capacity Graph

