



Township of Oro-Medonte Drinking Water Compliance Report 2023

Sugarbush 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

DRINKING WATER COMPLIANCE REPORT 2023

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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:

- Sugarbush Drinking Water System (DWS #220001518)

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

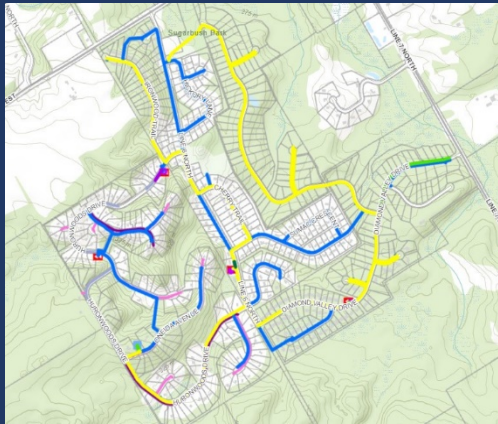
3.1 Availability of the Drinking Water Compliance Report

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); 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 28th, 2024.

4 Sugarbush Drinking Water System



SUGARBUSH

Drinking Water System Number: 220001518

Raw Water Source: Groundwater

Drinking Water System Category: Large Municipal Residential

Drinking Water System Classification: Water Supply & Distribution Class 2

Population Served: Approx. 1,628 persons

4.1 Municipal Drinking Water System Description

The Sugarbush Drinking Water System (DWS # 220001518) facilities are located in Oro-Medonte at 10 Huron Woods Drive, Concession 6 (Well 1); 3310 Line 6 North, Concession 6 (Well 2); 34 Diamond Valley, Concession 7 (Well 3); 67 Huron Woods (Booster Station); and 6 Oneida Ave (Reservoir). The facilities are 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 drinking water system consists of three (3) production wells in separate pumphouses, process piping, one (1) booster pumping station and two (2) reservoirs. Raw water is conveyed to the pumphouse, where treatment includes chlorination with sodium hypochlorite. Primary disinfection is achieved through the CT disinfection concept using the combination of a disinfectant residual concentration and effective contact time by means of contact mains at Well 1 and Well 2, and an in-ground, dual-celled 186 m³ reservoir for Well 3. There are two (2) separate pressure zones in the distribution system: Oneida Ave Reservoir and the booster station with three (3) high lift pumps service Zone 1; and, two (2) high lift and two (2) fire pumps located at Well 3 supply treated water to the Zone 2 distribution system based on system demand.

The distribution system consists of approximately 19.4 km of watermain, (ranging in diameter from 50 to 250mm), one-hundred and six (106) valves, eighty-three (83) hydrants, and six (6) sample stations servicing approximately 465 residential homes.

Monitoring of the drinking water system’s operation is 24 hours a day, seven days a week continuously 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 25 kW natural gas generator (located at booster station) and a 125 kW natural gas generator (located at Well 3).

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 was 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 large 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 | 0.10/0.37/0.47 |
| Raw Turbidity (NTU) – Well 2 | 12 | 0.27/0.53/0.63 |
| Raw Turbidity (NTU) – Well 3 | 12 | 0.15/0.41/0.62 |
| Chlorine (mg/L) – Well 1 | 8760* | 0.98/1.35/3.01 ** |
| Chlorine (mg/L) – Well 2 | 8760* | 0.65/1.37/2.72** |
| Chlorine (mg/L) – Well 3 | 8760* | 1.02/1.31/1.63** |
| 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. The low and high chlorine results incorporate difficulties conditioning the new chlorine analyzer probes in Sugarbush Wells 1 & 2.

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 | 52 | 0 – 0 | 0 – 0 | 0 – 1 | N/A |
| | Well 2 | 53 | 0 – 0 | 0 – 10 | 0 – 1 | N/A |
| | Well 3 | 52 | 0 – 0 | 0 – 0 | 0 – 0 | N/A |
| Treated | Well 1 | 52 | 0 – 0 | 0 – 0 | 0 – 1 | <10 – 10 |
| | Well 2 | 53 | 0 – 0 | 0 – 4* | 0 – 49 | <10 – 30 |
| | Well 3 | 52 | 0 – 0 | 0 – 0 | 0 – 1 | <10 – 10 |
| Distribution | | 161 | 0 – 0 | 0 – 0 | 0 – 1 | <10 – 90 |

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

*Total coliform in treated sample summary includes an Adverse Water Quality Incident (AWQI) result.

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 36 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 |
|--------------------------------|--------------|------------------|-------|------------|
| Schedule 23: Inorganics | | | | |
| Antimony | 2021/06/16 | 0.9<MDL | ug/L | No |
| Arsenic | 2021/06/16 | 0.2<MDL | ug/L | No |
| Barium | 2021/06/16 | 49.2 (Well 1) | ug/L | No |
| | | 39.4 (Well 2) | ug/L | No |
| | | 50.3 (Well 3) | ug/L | No |

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| | | | | |
|---|------------|----------------------|------|----|
| Boron | 2021/06/16 | 8 (Well 1) | ug/L | No |
| | | 6 (Well 2) | ug/L | No |
| | | 8 (Well 3) | ug/L | No |
| Cadmium | 2021/06/16 | 0.003<MDL | ug/L | No |
| Chromium | 2021/06/16 | 1.04 (Well 1) | ug/L | No |
| | | 1.22 (Well 2) | ug/L | No |
| | | 1.28 (Well 3) | ug/L | No |
| Mercury | 2021/06/16 | 0.01<MDL (Well 1) | ug/L | No |
| | | <0.01 (Well 2) | ug/L | No |
| | | 0.01<MDL (Well 3) | ug/L | No |
| Selenium | 2021/06/16 | 0.13 (Well 1) | ug/L | No |
| | | 0.15 (Well 2) | ug/L | No |
| | | 0.12 (Well 3) | ug/L | No |
| Uranium | 2021/06/16 | 0.865 (Well 1) | ug/L | No |
| | | 0.347 (Well 2) | ug/L | No |
| | | 0.423 (Well 3) | ug/L | No |
| Schedule 24: Organics | | | | |
| Alachlor | 2021/06/16 | 0.02<MDL | ug/L | No |
| Atrazine + N-dealkylated metabolites | 2021/06/16 | 0.01<MDL (Well 1) | ug/L | No |
| | | 0.01<MDL (Well 2) | ug/L | No |
| | | 0.03 (Well 3) | 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 |

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| | | | | |
|---|------------|-------------|------|----|
| 1,2-Dichlorobenzene | 2021/06/16 | 0.41<MDL | ug/L | No |
| 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 (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 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 (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. Results for Sugarbush Wells 1, 2, and 3 were all under method detection limits unless otherwise noted.

Under Section 13-6 and 13-6.1, sampling requirements for trihalomethanes (THMs) and haloacetic acids (HAAs) are quarterly and expressed as a running annual average (RAA), which 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

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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.

Table 5: Trihalomethanes and Haloacetic Acids Results Summary

| Parameter | Running Annual Average (RAA) | Unit | Exceedance |
|------------------------|------------------------------|------|------------|
| Trihalomethanes (THMs) | 2.70 | ug/L | No |
| Haloacetic Acid (HAAs) | 5.3<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 13-7, 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 | Well 1 – 0.345 Well 2 – 0.734 Well 3 – 0.938 | mg/L | No |
| | 2023/05/24 | Well 1 – 0.435 Well 2 – 0.770 Well 3 – 0.99 | mg/L | No |
| | 2023/08/29 | Well 1 – 0.437 Well 2 – 0.749 Well 3 – 0.937 | mg/L | No |
| | 2023/12/05 | Well 1 – 0.427 Well 2 – 0.754 Well 3 – 0.939 | mg/L | No |
| Nitrite | 2023/03/08 | Well 1 - 0.03<MDL Well 2 - 0.03<MDL Well 3 - 0.03<MDL | mg/L | No |
| | 2023/05/24 | Well 1 - 0.03<MDL Well 2 - 0.03<MDL Well 3 - 0.03<MDL | mg/L | No |
| | 2023/08/29 | Well 1 - 0.03<MDL Well 2 - 0.03<MDL Well 3 - 0.03<MDL | mg/L | No |
| | 2023/12/05 | Well 1 - 0.03<MDL Well 2 - 0.03<MDL Well 3 - 0.03<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.

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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 | Well 1 – 4.34 Well 2 – 4.60 Well 3 – 3.02 | mg/L | No |
| Fluoride | 2023/08/29 | Well 1 – 0.06<MDL Well 2 – 0.06<MDL Well 3 – 0.06<MDL | 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 Sugarbush 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 ₃) | pH | Exceedance |
|---------------|--------------|--------------|-------------|---|-----------|------------|
| Plumbing | N/A | N/A | N/A | N/A | N/A | N/A |
| Distribution | 4 | 2023/04/04 | N/A | 163 - 168 | 8.0 – 8.2 | No |
| | 4 | 2023/10/04 | N/A | 163 - 167 | 7.6* | No |

* Result was identical in all four sample results.

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)). There was one (1) incident in the drinking water system during this reporting period.

4.5.2 Schedule 17: Corrective Actions

Corrective actions in response to the Adverse Water Quality Incident (AWQI) were conducted in accordance with Schedule 17 of O.Reg 170/03 and details are summarized in the table below for reference.

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

| |
|--|
| AWQI Number: |
| 161374 |
| Incident Details: |
| Date: February 21, 2023 The adverse water quality incident consisted of one treated water microbiological sample from Well 2 collected during the regular weekly sampling program that was reported by our contracted external laboratory to exceed regulatory standards with a total coliform result of 4 count/100mL. (Disinfection was not disrupted during the occurrence). |
| Corrective Action: |
| Immediate corrective actions involved flushing at the source and in the distribution system. Resamples were collected at the source location, along with upstream and downstream locations as per O.Reg 170/03. Resamples collected from all locations sampled confirmed zero presence of coliforms. |

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

| Safe Drinking Water Act (SDWA) & Associated Regulations |
|--|
| <p>At the time of this report’s compilation, the 2023 MECP Inspection Report for this system had not yet been received.</p> <p>The 2022 MECP Inspection Report was received after the completion of the 2022 Drinking Water Compliance Report. During that reporting period, there were no issues or non-compliances identified.</p> |
| Municipal Drinking Water Licence & Drinking Water Work Permit |
| <p>At the time of this report’s compilation, the 2023 MECP Inspection Report for this system had not yet been received.</p> <p>The 2022 MECP Inspection Report was received after the completion of the 2022 Drinking Water Compliance Report. During that reporting period, there were no issues or non-compliances identified.</p> |
| Provincial Orders |
| <p>At the time of this report’s compilation, the 2023 MECP Inspection Report for this system had not yet been received.</p> <p>The 2022 MECP Inspection Report was received after the completion of the 2022 Drinking Water Compliance Report. During that reporting period, there were no provincial orders identified.</p> |
| Best Practice Issues and Recommendations |
| <p>At the time of this report’s compilation, the 2023 MECP Inspection Report for this system had not yet been received.</p> <p>The 2022 MECP Inspection Report was received after the completion of the 2022 Drinking Water Compliance Report. During that reporting period, there were no best practices and/or recommendations identified.</p> |

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 permitted 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

Sugarbush Well Flow Summary Table

| | Well 1 | | | | Well 2 | | | | Well 3 | | | |
|-----------|--------------------------------|-------------------------------|-------------------------------|------------------------|---------------------------------|-------------------------------|-------------------------------|------------------------|---------------------------------|-------------------------------|-------------------------------|------------------------|
| | Permitted Capacity: 851 m3/day | | | | Permitted Capacity: 1636 m3/day | | | | Permitted Capacity: 1636 m3/day | | | |
| | Total Flow (m ³) | Average Day (m ³) | Maximum Day (m ³) | Max. Day/ Capacity (%) | Total Flow (m ³) | Average Day (m ³) | Maximum Day (m ³) | Max. Day/ Capacity (%) | Total Flow (m ³) | Average Day (m ³) | Maximum Day (m ³) | Max. Day/ Capacity (%) |
| January | 1456.19 | 46.97 | 59.10 | 6.94 | 3189.96 | 102.90 | 128.54 | 7.86 | 3637.98 | 117.35 | 152.80 | 9.34 |
| February | 1206.55 | 43.09 | 58.97 | 6.93 | 2635.23 | 94.12 | 128.72 | 7.87 | 3348.19 | 119.58 | 150.50 | 9.20 |
| March | 1199.51 | 38.69 | 57.53 | 6.76 | 2619.26 | 84.49 | 124.97 | 7.64 | 3681.38 | 118.75 | 148.80 | 9.10 |
| April | 1566.90 | 52.23 | 78.53 | 9.23 | 3449.17 | 114.97 | 177.91 | 10.87 | 3543.78 | 118.13 | 147.30 | 9.00 |
| May | 2875.80 | 92.77 | 206.38* | 24.25 | 5902.37 | 190.40 | 375.87* | 22.98 | 3569.88 | 115.16 | 148.70 | 9.09 |
| June | 2899.47 | 96.65 | 168.79 | 19.83 | 6359.62 | 211.99 | 372.07 | 22.74 | 5052.84 | 168.43 | 232.51 | 14.21 |
| July | 2198.90 | 70.93 | 121.60 | 14.29 | 5058.51 | 163.18 | 266.97 | 16.32 | 4890.92 | 157.77 | 227.60 | 13.91 |
| August | 2173.48 | 70.11 | 104.12 | 12.23 | 4733.88 | 152.71 | 228.72 | 13.98 | 4931.93 | 159.09 | 226.40 | 13.84 |
| September | 2320.35 | 77.34 | 122.68 | 14.42 | 5074.62 | 169.15 | 269.44 | 16.47 | 4838.53 | 161.28 | 239.41* | 14.63 |
| October | 2250.65 | 72.60 | 92.46 | 10.86 | 4916.52 | 158.60 | 202.14 | 12.36 | 4973.82 | 160.45 | 219.60 | 13.42 |
| November | 2112.49 | 70.42 | 89.72 | 10.54 | 4599.23 | 153.31 | 195.69 | 11.96 | 4711.32 | 157.04 | 216.80 | 13.25 |
| December | 2675.48 | 86.31 | 125.81 | 14.78 | 5823.75 | 187.86 | 274.12 | 16.76 | 3685.01 | 118.87 | 219.80 | 13.44 |

*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

