



2024 SCHEDULE 22 SUMMARY REPORT

MINESING
DRINKING WATER
SYSTEM

For the period of
January 1st, 2024 to December 31st, 2024

Prepared for the Corporation of the Township of Tay by the Ontario Clean Water Agency



This report was prepared in accordance with the requirements of [O.Reg 170/03, Schedule 22, Summary Reports for Municipalities](#) for the following system and reporting period:

| | |
|--|--|
| Drinking-Water System Number: | 220005465 |
| Drinking-Water System Name: | Minesing Drinking Water System |
| Drinking-Water System Owner: | The Corporation of the Township of Springwater |
| Drinking-Water System Category: | Large Municipal Residential |
| Period being reported: | January 1, 2024 – December 31, 2024 |

1. Issue(s) of Non-Compliance

A Ministry of Environment, Conservation and Parks (MECP) Drinking Water System Inspection was conducted on January 23, 2025 for the period covering January 18, 2024 to January 23, 2025. On March 4, 2025 the Inspection Report was issued and an Inspection Summary Rating Record (IRR) of 100% was received.

The following is a summary of non-compliances noted in the MECP Inspection Report, as well as the duration and the measures that were taken to correct the non-compliance. If any self-reported non-compliances were included in the inspection report, they will be noted in Table 1.

Table 1. Non-Compliances and Corrective Actions noted in the 2023/2024 MECP Inspection Report

| Non-Compliance(s) | Duration | Required Actions & Corrective Actions |
|-------------------|----------|---------------------------------------|
| N/A | N/A | N/A |

The following table (Table 2) is a summary of any incidents that the Operating Authority interpreted as instances where any requirements of the Act, the regulations, the system’s approval, drinking water works permit (DWWP), municipal drinking water licence (MDWL), and any orders applicable were not met. The Operating Authority reported the following incidents to the MECP and confirmation of whether the incidents are considered non-compliances are noted in the MECP Inspection Report and included in Table 1.

Table 2. Self-Reported Incidents and Corrective Actions for the Reporting Period

| Incident | Duration | Corrective Actions |
|----------|----------|--------------------|
| N/A | N/A | N/A |

For information on any Adverse Water Quality Incident(s) that may have occurred during the reporting period, please refer to the Minesing Drinking Water System Annual Report (Section 11).

2. Assessment of Flowrates and Quantity of Water Supplied

The following tables (Table 3 to 11) summarize the quantities and flowrates of water supplied during the reporting period, including monthly averages and maximum daily flows as well as a comparison to the rated capacity and flowrates approved in the system’s approval, DWWP or MDWL.

As required by the MDWL, regulatory flow measuring devices are checked/verified and where necessary calibrated. These checks/verifications/calibrations are performed annually by a third party to ensure the flow measuring devices are within acceptable deviation limits.

2.1 Treated Water

| | |
|--|---------------------------|
| Municipal Drinking Water License (MDWL): | 128-101 (Issue Number: 3) |
| Allowable Rated Capacity: | 740 m ³ /day |
| Allowable Flowrate into Treatment System: | Not listed in MDWL |

As per the MDWL, the maximum daily volume of treated water that flows from the treatment subsystem to the distribution system shall not exceed the listed rated capacity. However, the MDWL allows a system to be operated temporarily at a maximum daily volume and/or a maximum flowrate above the values set out in the MDWL for the purposes of fighting a large fire or for the maintenance of the drinking water system.

Table 3. Treated Water Annual and Monthly Average and Maximum Flows with Comparison to Rated Capacity and Total Volume for 2024

| Treated Water Flow | | | | | |
|--------------------|------------------------------------|---------------------------|------------------------------------|---------------------------|--------------------------------|
| Timeframe | Average Flow (m ³ /day) | Percent of Rated Capacity | Maximum Flow (m ³ /day) | Percent of Rated Capacity | Total Volume (m ³) |
| January | 125.97 | 17.02% | 156.00 | 21.08% | 3905.00 |
| February | 130.31 | 17.61% | 146.00 | 19.73% | 3779.00 |
| March | 150.26 | 20.31% | 194.00 | 26.22% | 4658.00 |
| April | 150.27 | 20.31% | 186.00 | 25.14% | 4508.00 |
| May | 165.90 | 22.42% | 432.00 | 58.38% | 5143.00 |
| June | 172.20 | 23.27% | 247.00 | 33.38% | 5166.00 |
| July | 175.35 | 23.70% | 243.00 | 32.84% | 5436.00 |
| August | 174.68 | 23.61% | 235.00 | 31.76% | 5415.00 |
| September | 177.27 | 23.96% | 383.00 | 51.76% | 5318.00 |
| October | 138.71 | 18.74% | 158.00 | 21.35% | 4300.00 |
| November | 123.10 | 16.64% | 151.00 | 20.41% | 3693.00 |
| December | 123.48 | 16.69% | 145.00 | 19.59% | 3828.00 |
| 2024 | 150.62 | 20.35% | 432.00 | 58.38% | 55149.00 |

A review of flow information for the reporting period indicates that the drinking water system operated within the rated capacity specified in the MDWL (740 m³/day), for the maximum treated volume of treated water that flows from the treatment subsystem to the distribution system.

A summary of flowrates of water that flows into the treatment system can be found in Table 5, Table 7 and Table 11. The applicable MDWL for the reporting period did not list a maximum allowable limit for the flowrate of water that flows into a treatment subsystem.

2.2 Raw Water

| | |
|---|-----------------------------|
| Permit to Take Water Number (PTTW): | 2027-A3BP7Y |
| Allowable Maximum Raw Water Volume - Well #1: | 392.774 m ³ /day |
| Allowable Maximum Raw Water Flowrate - Well #1: | 273 L/min (4.55 L/sec) |
| Allowable Maximum Volume of Raw Water - Well #2: | 327.000 m ³ /day |
| Allowable Maximum Raw Water Flowrate - Well #2: | 228 L/min (3.8 L/sec) |
| Allowable Maximum Raw Water Volume - Well #3: | 327.0 m ³ /day |
| Allowable Maximum Raw Water Flowrate - Well #3: | 228 L/min (3.8 L/sec) |
| Allowable Maximum Volume of Raw Water - Well #4: | 412.0 m ³ /day |
| Allowable Maximum Raw Water Flowrate - Well #4: | 286 L/min (4.77 L/sec) |
| Allowable Maximum Combined Raw Water Volume from Well #2, Well #3 and Well #4: | 740.0 m ³ /day |
| Allowable Maximum Combined Raw Water Flowrate from Well #2, Well #3 and Well #4: | 514 L/min (8.56 L/sec) |

As per the PTTW, water shall only be taken from the specified source(s) and at the rates and amounts taken as specified in the permit.

Table 4. Raw Water (Well #1) Monthly Average, Maximum Flow and Total Volume for 2024

| Raw Water Flow – Well #1 | | | | | |
|--------------------------|------------------------------------|-----------------------------|------------------------------------|-----------------------------|--------------------------------|
| Timeframe | Average Flow (m ³ /day) | Percent of Allowable Volume | Maximum Flow (m ³ /day) | Percent of Allowable Volume | Total Volume (m ³) |
| January | 73.68 | 18.76% | 126.00 | 32.08% | 2284.00 |
| February | 81.34 | 20.71% | 201.00 | 51.17% | 2359.00 |
| March | 98.87 | 25.17% | 214.00 | 54.48% | 3065.00 |
| April | 90.80 | 23.12% | 241.00 | 61.36% | 2724.00 |
| May | 85.60 | 21.79% | 206.00 | 52.45% | 1284.00 |
| June | 90.47 | 23.03% | 178.00 | 45.32% | 2714.00 |
| July | 96.48 | 24.56% | 234.00 | 59.58% | 2991.00 |
| August | 91.19 | 23.22% | 274.00 | 69.76% | 2827.00 |
| September | 90.17 | 22.96% | 220.00 | 56.01% | 2705.00 |
| October | 66.45 | 16.92% | 101.00 | 25.71% | 2060.00 |
| November | 62.63 | 15.95% | 143.00 | 36.41% | 1879.00 |
| December | 60.48 | 15.40% | 153.00 | 38.95% | 1875.00 |
| 2024 | 82.35 | 20.97% | 274.00 | 69.76% | 28767.00 |

A review of flow information for the reporting period indicates that the system operated within the PTTW's maximum allowable daily raw water volume for Well #1.

Table 5. Raw Water (Well #1) Annual and Monthly Maximum Flowrates for 2024

| Raw Water Flow Rate – Well #1 | |
|--------------------------------------|---------------------------------|
| Timeframe | Maximum Flowrate (L/sec) |
| January | 4.10 |
| February | 4.10 |
| March | 4.10 |
| April | 4.10 |
| May | 4.30 |
| June | 4.50 |
| July | 4.50 |
| August | 4.50 |
| September | 4.50 |
| October | 4.40 |
| November | 4.30 |
| December | 4.10 |
| 2024 | 4.50 |

A review of flow information for the reporting period indicates that the system operated within the PTTW's maximum allowable raw water flowrate for Well #1 (4.55 L/sec).

Table 6. Raw Water (Well #2) Monthly Average, Maximum Flow and Total Volume for 2024

| Raw Water Flow – Well #2 | | | | | |
|---------------------------------|---|------------------------------------|---|------------------------------------|-------------------------------------|
| Timeframe | Average Flow (m³/day) | Percent of Allowable Volume | Maximum Flow (m³/day) | Percent of Allowable Volume | Total Volume (m³) |
| January | 41.16 | 12.59% | 59.00 | 18.04% | 782.00 |
| February | 45.38 | 13.88% | 58.00 | 17.74% | 590.00 |
| March | 45.20 | 13.82% | 59.00 | 18.04% | 904.00 |
| April | 38.27 | 11.70% | 71.00 | 21.71% | 842.00 |
| May | 73.00 | 22.32% | 146.00 | 44.65% | 1971.00 |
| June | 58.95 | 18.03% | 109.00 | 33.33% | 1297.00 |
| July | 49.64 | 15.18% | 78.00 | 23.85% | 1092.00 |
| August | 49.20 | 15.05% | 71.00 | 21.71% | 1230.00 |
| September | 59.92 | 18.32% | 221.00 | 67.58% | 1438.00 |
| October | 52.00 | 15.90% | 73.00 | 22.32% | 1092.00 |
| November | 47.19 | 14.43% | 69.00 | 21.10% | 755.00 |
| December | 48.22 | 14.75% | 65.00 | 19.88% | 868.00 |

| Raw Water Flow – Well #2 | | | | | |
|---------------------------------|---|------------------------------------|---|------------------------------------|-------------------------------------|
| Timeframe | Average Flow (m³/day) | Percent of Allowable Volume | Maximum Flow (m³/day) | Percent of Allowable Volume | Total Volume (m³) |
| 2024 | 50.68 | 15.50% | 221.00 | 67.58% | 12861.00 |

A review of flow information for the reporting period indicates that the system operated within the PTTW's maximum allowable daily raw water volume for Well #2 (327 m³/day).

Table 7. Raw Water (Well #2) Annual and Monthly Maximum Flowrates for 2024

| Raw Water Flowrate – Well #2 | |
|-------------------------------------|---------------------------------|
| Timeframe | Maximum Flowrate (L/sec) |
| January | 2.90 |
| February | 2.90 |
| March | 2.90 |
| April | 2.70 |
| May | 3.70 |
| June | 3.60 |
| July | 3.60 |
| August | 3.60 |
| September | 3.60 |
| October | 3.70 |
| November | 3.60 |
| December | 3.60 |
| 2024 | 3.70 |

A review of flow information for the reporting period indicates that the system operated within the PTTW's the maximum allowable raw water flowrate for Well #2 (3.8 L/sec).

Table 8. Raw Water (Well #3) Monthly Average, Maximum Flow and Total Volume for 2024

| Raw Water Flow – Well #3 ^{8A} | | | | | |
|---|---|------------------------------------|---|------------------------------------|-------------------------------------|
| Timeframe | Average Flow (m³/day) | Percent of Allowable Volume | Maximum Flow (m³/day) | Percent of Allowable Volume | Total Volume (m³) |
| January | --- | --- | --- | --- | --- |
| February | --- | --- | --- | --- | --- |
| March | --- | --- | --- | --- | --- |
| April | --- | --- | --- | --- | --- |
| May | --- | --- | --- | --- | --- |
| June | --- | --- | --- | --- | --- |

| Raw Water Flow – Well #3 ^{8A} | | | | | |
|--|------------------------------------|-----------------------------|------------------------------------|-----------------------------|--------------------------------|
| Timeframe | Average Flow (m ³ /day) | Percent of Allowable Volume | Maximum Flow (m ³ /day) | Percent of Allowable Volume | Total Volume (m ³) |
| July | --- | --- | --- | --- | --- |
| August | --- | --- | --- | --- | --- |
| September | --- | --- | --- | --- | --- |
| October | --- | --- | --- | --- | --- |
| November | --- | --- | --- | --- | --- |
| December | --- | --- | --- | --- | --- |
| 2024 | --- | --- | --- | --- | --- |

^{8A}Well #3 has been offline since September 2022. No raw water was produced or sent to the treatment and distribution system in 2024.

A review of flow information for the reporting period indicates that the system operated within the PTTW's maximum allowable daily raw water volume for Well #3 (327 m³/day).

Table 9. Raw Water (Well #3) Annual and Monthly Maximum Flowrates for 2024

| Raw Water Flowrate – Well #3 ^{9A} | |
|--|--------------------------|
| Timeframe | Maximum Flowrate (L/sec) |
| January | --- |
| February | --- |
| March | --- |
| April | --- |
| May | --- |
| June | --- |
| July | --- |
| August | --- |
| September | --- |
| October | --- |
| November | --- |
| December | --- |
| 2024 | --- |

^{9D}Well #3 has been offline since September 2022. No raw water was produced or sent to the treatment and distribution system in 2024.

A review of flow information for the reporting period indicates that the system operated within the PTTW's maximum allowable raw water flowrate for Well #3 (3.8 L/sec).

Table 10. Raw Water (Well #4) Monthly Average, Maximum Flow and Total Volume for 2024

| Raw Water Flow – Well #4 | | | | | |
|--------------------------|------------------------------------|-----------------------------|------------------------------------|-----------------------------|--------------------------------|
| Timeframe | Average Flow (m ³ /day) | Percent of Allowable Volume | Maximum Flow (m ³ /day) | Percent of Allowable Volume | Total Volume (m ³) |
| January | 44.30 | 10.75% | 57.00 | 13.83% | 886.00 |
| February | 37.71 | 9.15% | 63.00 | 15.29% | 792.00 |
| March | 46.41 | 11.26% | 65.00 | 15.78% | 789.00 |
| April | 47.84 | 11.61% | 68.00 | 16.50% | 909.00 |
| May | 68.10 | 16.53% | 191.00 | 46.36% | 1975.00 |
| June | 55.96 | 13.58% | 103.00 | 25.00% | 1287.00 |
| July | 56.68 | 13.76% | 95.00 | 23.06% | 1417.00 |
| August | 66.64 | 16.17% | 126.00 | 30.58% | 1466.00 |
| September | 57.59 | 13.98% | 84.00 | 20.39% | 1267.00 |
| October | 53.23 | 12.92% | 77.00 | 18.69% | 1171.00 |
| November | 53.42 | 12.97% | 70.00 | 16.99% | 1015.00 |
| December | 50.38 | 12.23% | 69.00 | 16.75% | 1058.00 |
| 2024 | 53.19 | 12.91% | 191.00 | 46.36% | 14032.00 |

A review of flow information for the reporting period indicates that the system operated within the PTTW’s maximum allowable daily raw water volume for Well #4 (412.0 m³/day).

Table 11. Raw Water (Well #4) Annual and Monthly Average and Maximum Flowrates for 2024

| Raw Water Flowrate – Well #4 | |
|------------------------------|--------------------------|
| Timeframe | Maximum Flowrate (L/sec) |
| January | 3.40 |
| February | 3.30 |
| March | 3.10 |
| April | 3.10 |
| May | 4.10 |
| June ^{11A} | 3.60 |
| July ^{11A} | 4.50 |
| August | 4.60 |
| September | 4.50 |
| October | 4.50 |
| November | 4.50 |
| December | 4.50 |
| 2024 | 4.60 |

A review of flow information for the reporting period indicates that the system operated within the PTTW's the maximum allowable raw water flowrate for Well #4 (4.77 L/sec).

Table 12. Combined Well (Well #1, Well #2, Well #3 & Well #4) Annual and Monthly Flow and Total Volume for 2024

| Combined Well Flow (Well #1, Well #2, Well #3 & Well #4) | | | | | |
|---|---|------------------------------------|---|------------------------------------|-------------------------------------|
| Timeframe | Average Flow (m³/day) | Percent of Allowable Volume | Maximum Flow (m³/day) | Percent of Allowable Volume | Total Volume (m³) |
| January | 127.48 | 17.23% | 202.00 | 27.30% | 3952.00 |
| February | 129.00 | 17.43% | 201.00 | 27.16% | 3741.00 |
| March | 153.48 | 20.74% | 251.00 | 33.92% | 4758.00 |
| April | 149.17 | 20.16% | 241.00 | 32.57% | 4475.00 |
| May | 168.71 | 22.80% | 407.00 | 55.00% | 5230.00 |
| June | 176.60 | 23.86% | 299.00 | 40.41% | 5298.00 |
| July | 177.42 | 23.98% | 285.00 | 38.51% | 5500.00 |
| August | 178.16 | 24.08% | 274.00 | 37.03% | 5523.00 |
| September | 180.33 | 24.37% | 441.00 | 59.59% | 5410.00 |
| October | 139.45 | 18.84% | 212.00 | 28.65% | 4323.00 |
| November | 121.63 | 16.44% | 191.00 | 25.81% | 3649.00 |
| December | 122.61 | 16.57% | 206.00 | 27.84% | 3801.00 |
| 2024 | 152.00 | 20.54% | 441.00 | 59.59% | 55660.00 |

A review of flow information for the reporting period indicates that the system operated within the PTTW's maximum allowable daily taking of water from any combination of wells.

Table 13. Combined Well (Well #1, Well #2, Well #3 & Well #4) Allowable Maximum Raw Water Flowrate for 2024

| Combined Well Max Flowrate (Well #1, Well #2, Well #3, Well #4) | |
|--|---------------------------------|
| Timeframe | Maximum Flowrate (L/sec) |
| January | 4.10 |
| February | 4.10 |
| March | 4.10 |
| April | 4.10 |
| May | 4.30 |
| June | 4.50 |
| July | 4.50 |
| August | 4.60 |
| September | 4.50 |
| October | 4.50 |
| November | 4.50 |

| Combined Well Max Flowrate (Well #1, Well #2, Well #3, Well #4) | |
|--|-------------|
| December | 4.50 |
| 2024 | 4.60 |

A review of flow information for the reporting period indicates that the system operated within the PTTW's the maximum allowable raw water flowrate for Well #1, Well #2, Well #3, and Well #4 Combined (8.56 L/sec).